Annex 8: TODIS OVERVIEW

1. Introduction

1.1.1 The Transport Community Permanent Secretariat (TCT Secretariat) has developed the Transport Observatory concept and defined the data, functional and technical requirements for its basic underlying analytical tool, namely the Transport Observatory Database/ Information System (TODIS).

1.1.2 In order to do so, a comprehensive analysis has been undertaken taking into consideration the TCT Secretariat's remit and mandate. The results of this analysis are presented in the present document in terms of:

- Data needs

  The data required by the TODIS core functions in order the system to be able to provide the basis and facilitate the analysis for the TCT Secretariat's mandate, i.e.:

  - the Transport Observatory five years rolling plan;
  - the TCT Secretariat's annual report on the implementation of the TEN-T network;
  - the EU Acquis transposition and implementation report
  - the Transport Observatory public web portal
  - any other analysis/ report requirements for the performance monitoring of the TEN-T network and projects by both the TCT Secretariat and the Regional Stakeholders.

- Data Sources and Availability

  The required data will be provided by both institutional data sources (ministries/ agencies/ authorities) and databases/ systems maintained by third parties. The relevant stakeholders have been identified and the first phase of the consultation regarding the availability, format and data exchange mechanisms has been partially completed, with the tasks to be undertaken by the contractor in the next phase clearly defined.

- Data Lifecycle in TODIS

  Taking into consideration the identified data needs and sources, the lifecycle of data within TODIS has been defined together with the corresponding:

  - Roles and Responsibilities
  - Data Collection and Validation Processes
  - Data Analysis and Interrogation methodology
  - Expected Outputs

1.1.3 All the above are provided in the remainder of this document in a synoptic but comprehensive manner accompanied by detailed tables in the three appendices.

2. Data Needs for Transport Observatory

2.1 Introduction

2.1.1 A detailed assessment has been undertaken in regard to the data needs vis-à-vis the Transport Observatory's remit and mandate. These were assessed from the perspective of each of the core functions of the Transport Observatory to be included in TODIS, i.e.:

- Monitoring the performance of the TEN-T Network in Western Balkans (both infrastructure quality and operation/service performance)
- Monitoring of TEN-T projects
- TEN-T network demand analysis and traffic forecasting
- EU Acquis transposition monitoring

2.1.2 The full list of data that TODIS will be collecting is provided in Appendix A. Such data has been colour-coded as essential (in black font) and non-essential (in grey font) but all available data should be collected, notwithstanding the priority level.

2.1.3 For the purposes of this exercise the TEN-T network has been assessed by dividing it in the following major network elements:

- Roads
- Railways
- Inland Waterways (IWW)
- IWW Ports
- Seaports
- Airports
- Freight Terminals
- Border Crossings

2.1.4 The data identified for the above is to be supplemented with **geospatial data** needed to support the geo-reference of all the above-mentioned data to allow for the visualisation of the information for both reporting purposes but also for making this information publicly available similarly with the TEN-TEC portal application.

2.2 TEN-T Network Performance Monitoring

2.2.1 For the purposes of the TEN-T Network Performance Monitoring, the detailed list of the identified data needs per mode of transport and network elements is presented in Appendix **Error! Reference source not found.**, while the following sections provide the approach and reasoning behind the selection of the specific data.

Localisation Data

2.2.2 It is imperative that the data provided is referred to the correct section of the network and that this section can be identified both within TODIS but also there is enough information to cross reference it in other databases (national or regional) that TODIS could potentially exchange information with.

2.2.3 Also, the data provided should refer to as homogenous as possible sections of the network, so the ability to split a section of the network in sub-sections shall also been provided.

Infrastructure Data

2.2.4 The data includes all specific characteristics of each type of infrastructure, providing a 'description' of each network element in such detail that will provide enough information for the development of comprehensive inventory and allow for the categorisation and evaluation of the said infrastructure in respect to the TEN-T requirements.

2.2.5 The information required includes the category of the infrastructure, geometric characteristics (e.g. length, number of lanes/ tracks), the number and type of infrastructure elements included (e.g. tunnels, bridges), the condition (as per the TEN-T defined ranking, if applicable), operating characteristics arising from the infrastructure limitations (e.g. design/ operating speed, capacity). Also, data related to mode specific infrastructure (e.g. tolls for roads), as well as information on any ITS installed (e.g. ERTMS for rail).

TEN-T Compliance

2.2.6 Another element of the reporting requirements is the compliance of the infrastructure with the TEN-T Network Key Compliance Indicators as defined by the respective EU Directives, Decisions and Regulations.

Operations Data

2.2.7 In order to monitor the performance of the network in regard to operations, data specific to traffic and freight volumes (vehicles/ vessels/ passengers/ tons/ TEUs) and their composition will be collected.

2.2.8 The operations data includes travel times (if available from the Regional Participants) or the relevant inputs that the travel time could derive from (e.g. operating speed and length of section) and specific performance indicators (e.g. toll evasion, if applicable).

Safety

2.2.9 Safety related information based on actual data. Such information includes at least accident/ crashes numbers (per severity), number of injuries and fatalities and location for the severe accidents.

2.2.10 Specifically for the road network, further information relevant to road safety for the TEN-T network at first and then (in parallel with the development of the Road Safety Observatory under the auspices of the TCT) for the entire territory covered by the Treaty is to be collected.

2.2.11 The granularity of the road safety information would be per section of the TEN-T network and for the extended network within the Regional Participants per road category.

Maintenance Data

2.2.12 Parallel to the operations and of equal importance for the performance evaluation of the network is the maintenance data. This includes both actual costs (for routine, heavy/ periodic, winter and emergency maintenance) and the assessment for heavy maintenance or rehabilitation needs in the network.

2.2.13 For each mode, the information covers all elements of the network (e.g. for the roads: the open road sections, tunnels, and bridges) and be provided in adequate granularity in order to be comparable and to provide an indication of the status of the network.

Upgrade Requirements

2.2.14 Information will also be provided on any upgrade requirements (e.g. to increase capacity), supported by the relevant data regarding the percentage of usage of the existing capacity.

Environmental Data

2.2.15 Another parameter is the data required for the evaluation of the environmental performance of the network in terms of air pollution (GHG emissions) and noise levels, as well as information relevant to the climate change resilience of the network (such as number of flooding incidents, closures due to adverse weather conditions, etc.).

2.3 TEN-T Projects Monitoring

2.3.1 Similarly with the TEN-T Network Performance Monitoring, for the purposes of the TEN-T Projects Monitoring the detailed list of the identified data needs per mode of transport and network elements is presented in Appendix **Error! Reference source not found.**, while the following sections provide the approach and reasoning behind the selection of the specific data.

Localisation Data

2.3.2 The localisation data collected serves the same purposes as for the existing network (please refer to section 2.2.2).

Project Description

2.3.3 This includes generic project information used for reference purposes or for the categorisation of the project such as the project name, the type of intervention, the length (if linear) and the overall cost of the investment, as well as the project status (implemented, on-going, mature, under preparation).

TEN-T Compliance and Eligibility

2.3.4 The data collected (similarly to the existing network) refers to the TEN-T Network Key Compliance Indicators of the section or node affected by the proposed project, providing information on the level of compliance of the section/ node both before and after the project implementation.

Implemented Projects

2.3.5 Specific to the implemented projects, the data requirements identified include information on the project documentation and funding sources, as well as information required for the calculation of performance indicators, such as:

- Construction period deviation
- CAPEX Deviation
- OPEX Deviation (relevant to quality of design and construction)
- Deviation from planned maintenance cost (relevant to quality of design and construction)
- Interest During Construction
- EBITDA (if fare/toll collected)
- Revenue Deviation (if fare/toll collected)
- Traffic Deviation from forecasted

Live Projects

2.3.6 For 'live' projects (i.e. on-going, mature, under preparation), the data requirements identified extend beyond the project documentation and funding sources, including the maturity of funding and the technical status of the project, as well as information required for the performance indicators in regard to:

- Social impact
- Economic feasibility
- Financial feasibility
- Environmental Impact

2.3.7 One of the key functions of the Projects monitoring module is to provide forecasting on how the TEN-T Network will look like in users selected timespans, should such projects be implemented as scheduled. TEN-T Network performance and TEN-T Project data will therefore have to be structured accordingly and such forecasting function duly included within TODIS key features.

2.4 TEN-T Network Demand Analysis and Traffic Forecasting

2.4.1 Although the development of the TO Demand Model core function is not included in this assignment, this will be integral part of the TO umbrella, and some of the data required for it will still be collected through TODIS.

2.4.2 As described above, the information collected for the network performance monitoring purposes will contain all the network supply and demand related data for the TEN-T network. Similarly the data for project monitoring will contain all necessary information for future schemes under implementation or planning.

2.4.3 The TO demand model will then utilise the performance monitoring and project data when running a model (base or forecast). In addition, the TO demand model will include other strategic nodes

and links not part of TEN-T network, but which form an important part of the national networks of the RPs. Such data will not be collected as part of the present exercise.

2.5 Geospatial Information

2.5.1 The inclusion of Geographical Information Systems (GIS) is necessary to supports interactive maps and satellite overlays (e.g. OpenStreetMap, OpenTopoMap, Satellite imagery). With these features in place TODIS will be able to provide full support to the policy-making process and also to have the functionality to collect and continuously update technical and financial data for the entire TEN-T on a section basis, accompanied by interactive multifunctional maps (including thematic layers, base maps, search engine, print outs etc.).

2.5.2 The detailed list of the identified geospatial information needs (including data per mode of transport and network elements) is presented in Appendix **Error! Reference source not found.**.

2.6 EU Acquis Transposition Monitoring

2.6.1 To ensure a proper EU Acquis Transposition monitoring process, each Regional Participant has to make available to the TCT Secretariat all relevant laws and regulation in the field of transport (in their entirety) with the detailed Tables of Compliance comparing Acquis provisions and provision of the different pieces of national legislation, showing which part of the EU transport Acquis Communautaire and to what extend has been transposed into the National Legal System.

2.6.2 Also, each of the Regional Participants should submit to TCT Secretariat a self-assessed "Zero Report" of the status of its EU Acquis Harmonisation process.

2.6.3 All the reports will be based on the List of all EU transport Acquis Communautaire that are in force in the moment of review and/or monitoring (please refer to Appendix **Error! Reference source not found.**). The non-exhaustive content of these reports comprises:

- List of all Transport Primary Legislation in the Regional Participant (with the year of its adoption and of all subsequent changes/amendments);
- List of all Transport Secondary Legislation in the Regional Participant (with the year of its adoption and of all subsequent changes/amendments);
- Name the EU transport Acquis Communautaire associated with each piece of Transport Primary and/or Secondary Legislation in the Regional Participant;
- Level of Harmonisation of each piece of Primary/ Secondary Legislation with the Acquis;
- Transitional period for full harmonisation (deadlines)
- Plans for further/future harmonisation with the Acquis

2.6.4 TODIS will facilitate the monitoring of the whole process by providing a database that will record, consolidate, and link all the information listed under paragraph 2.6.3 with reference to the date this information was provided and the source document.

3. Data Sources & Availability

3.1 Introduction

3.1.1 Following the analysis of the Transport Observatory's data needs, the sources that will provide the required data have been identified. These comprise both institutional data sources (ministries/ agencies/ authorities) and databases/ systems maintained by third parties.

3.2 Regional Stakeholders

3.2.1 The main source of information/ data for the purposes of TODIS are the various public authorities (agencies/ bodies/ ministries) and transport related public and private enterprises in each Regional Participant who are responsible for the different data sets.

3.2.2 A Regional Stakeholder engagement process has already been undertaken to confirm the availability of the data/ information required for TODIS and determine the appropriate collection mechanisms for the exchange of that data/ information.

3.2.3 Appendix **Error! Reference source not found.** presents the outcomes of the consultation with the Regional Stakeholders in each of the Regional Participants, i.e.:

- List of the identified sources per sector, including status of consultations already held;
- Notes from the consultations with the Regional Stakeholders, including pending issues;
- Detailed tables with the confirmed data availability and formats per sector.

3.3 3rd Parties

3.3.1 In parallel with the Regional Stakeholder engagement, a review of on-going or currently planned initiatives from the third parties has been undertaken, to confirm the potential of utilising their information systems and tools for the purposes of TODIS.

3.3.2 A consultation process was initiated which is expected to continue throughout the development of TODIS to ensure maximisation of the benefits for all parties. The findings of the consultations and the required tasks to be undertaken by the Contractor are presented in Table 3-1 overleaf.

Table 3-1: Consultation with 3rd parties – Status and Required Tasks

3RD PARTY	STATUS AND REQUIRED TASKS
DG MOVE **TENtec**	TODIS will (as a minimum) adopt the TEN-TEC characteristics regarding the two core functions that are common, i.e., Network Performance and Project Monitoring. It is also expected that TODIS will facilitate the seamless data transfer and integration to TEN-TEC upon the accession of any of the regional Participants to the EU. A permanent communication channel on technical level shall be established to ensure the full coordination between the DG MOVE and the Transport Observatory leading up to and beyond the implementation of TODIS.
European GNSS Agency **Galileo Green Lane**	The aggregated data is stored in a database providing a valuable tool for monitoring the border crossing network performance. The planned upgrade of the Galileo Green Lane tool will include the extension of the geographical coverage to the Western Balkans and the addition of new border crossing for railways, ports, and other points of interest. Permanent communication channels on both administrative and technical levels shall be established to ensure that all legal issues (regarding the exchange of information) and any technical issues are dealt in time.
World Bank **CPMM System**	The CPMM system will support the data collection and processing, and associated reporting, analysis, visualisation, and monitoring of road and rail corridor performance indicators. But the implementation of CPMM has been delayed and currently is expected to become operational after TODIS. TODIS would be developed independently from CPMM, but its design will allow for future integration of additional functionalities that CPMM might bring, once ready (live/real-time data). This data exchange could potentially be bi-directional, with CPMM using TODIS data collection mechanisms which are expected to be developed earlier.

3RD PARTY	STATUS AND REQUIRED TASKS
European Union **Agency for Railways (ERA)**	ERA does not collect any data from the Regional Participants and currently there are no such plans in place. TODIS specification will ensure that the two systems would be interoperable by adapting the EU terminology (as per the relevant EU Directives); and ensuring that the appropriate interfaces are established.
Central European Free Trade Agreement (CEFTA) **System of Electronic Exchange of Data (SEED)**	The EU funded System of Electronic Exchange of Data (SEED), which supports the electronic exchange of pre-arrival information between customs administrations within CEFTA is used to electronically send the information about the arrival of priority consignments in advance to all agencies involved in clearance of goods, so that the agencies can prepare in advance and that those consignments can be given priority passage. This will accelerate the process of clearance of goods of first necessity. Following consultations with the relevant stakeholders in the region, it was identified that Border Crossings related data might be already available in SEED. If confirmed, the appropriate interfaces shall be established

4. Data Lifecycle in TODIS

4.1 Introduction

4.1.1 Taking into consideration the identified data needs and sources, the lifecycle of data within TODIS has been defined together with the corresponding processes. An overview of the data lifecycle in TODIS is presented in Figure 4-1

Figure 4-1: Data Lifecycle in TODIS

4.1.2 The IT infrastructure shall be sufficient to support all the critical functional areas, namely, data collection, storage, analysis, reporting, maintenance and sharing. Figure 4-22 shows a high-level overview of the proposed TODIS platform.

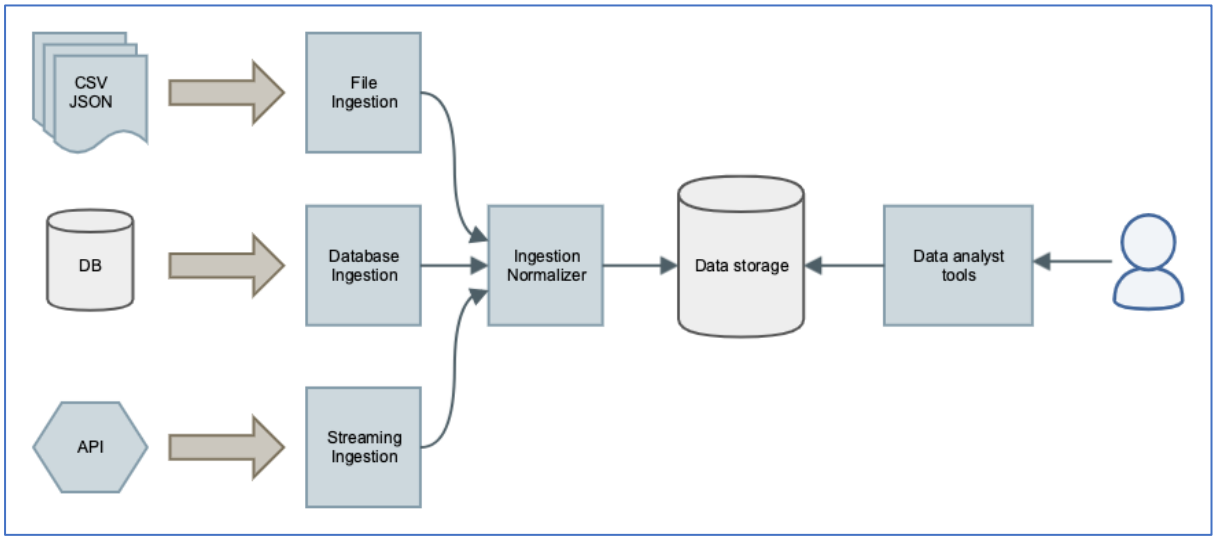

Figure 4-2. Overview of TODIS Platform

4.1.3 For the successful materialisation of the above, the organisational scheme that will support the operations of TODIS has been structured and the relevant roles and responsibilities have been defined.

4.2 TODIS Roles and Responsibilities

4.2.1 The organisational structure that will support the operations of TODIS, foresees the following roles/ user profiles:

- Regional User (RU)
- Regional Coordinator (RC)
- TCT Secretariat Subject Matter Expert (TCT SME)
- Operations Administrator (Ops Admin)

- System Administrator (Sys Admin)

Regional User (RU)

4.2.2 The base level in the organisational structure is the Regional User (RU) which plays the role of the source in the whole process. The RUs are experts from each sector, employees of the relevant public authorities (or of the private entities providing data input) in each of the Regional Participants and would be responsible to provide and submit the appropriate data according to the given attributes in the specific questionnaires.

Regional Coordinator (RC)

4.2.3 The middle level of users is the Regional Coordinators (RCs) who would have the main role in the data collection being the catalyst and coordinator of the process. The RCs would be working together with the RUs in completing the questionnaires until the final phase when the RCs are verifying the data submitted online.

4.2.4 The RC can either be an officer from the respective Ministry related to Transport in the Regional Participants seconded to the TCT Secretariat, or an independent local consultant tasked with the role of the Regional Coordinator on behalf of the TCT Secretariat.

4.2.5 The selection of the preferable option for the RC, as well as the selection of the RUs for each sector, can be different for each of the Regional Participants and would depend on the administrative set-up, public sector rules and internal decisions at each of the Regional Participants

TCT Secretariat Subject Matter Expert (TCT SME)

4.2.6 At the top of the structure for the operation of TODIS, is the TCT Secretariat Subject Matter Expert (TCT SME). These are employees of the TCT Secretariat which are experts in specific sectors (e.g. Road, Railway, Border Crossings, etc). Their mandate is to perform the final verification of the data provided by the Regional Participants, analyse and interrogate the data for the TCT Secretariat purposes and prepare the relevant reports.

Operations Administrator (Ops Admin)

4.2.7 The role of the Ops Admin is expected to be fulfilled by one of the TCT Secretariat employees, most probably one of the TCT SMEs. The Ops Admin will have additional privileges that would allow her/ him to perform specific tasks relevant to the future development of TODIS, e.g.:

- adding or removing parameters to facilitate identified additional data needs;
- adding or removing KPIs to facilitate identified additional evaluation/ reporting needs.
- adding or removing users in the RU, RC and TCT SME categories.

System Administrator (Sys Admin)

4.2.8 The Sys Admin will have full privileges on the system and will be responsible for the seamless operation of TODIS, to prevent problems and to improve systems' performance while ensuring the safety of the system.

4.2.9 The Sys Admin will also be responsible to install, upgrade and monitor TODIS software and hardware and for the data backup and recovery processes.

4.3 Data Collection & Validation

4.3.1 All prescribed data collection mechanisms will be available depending on the formats the data is available at the source. For instance, the system would allow the same data to be collected manually (file-based data collection) from a Regional Participant and automatically (e.g., using API) from another.

4.3.2 Taking into consideration the variances in the availability of data between the Regional Participants, the system will be configured to operate with any level of data available and adjust its reporting accordingly (e.g., providing extended reports for the Regional Participants with higher data availability). TODIS will also be able to identify and flag data gaps in consolidated reports.

4.3.3 TCT Secretariat would initiate the data collection by notifying the RCs providing the purpose of the data collection (TODIS core function/ Sector) and deadlines. The RCs would not just disseminate the message and instructions to the Regional Users, but they would be working together in the collection and upload of the data, performing in parallel a first verification of the data.

4.3.4 Upon data input, TODIS will perform an automated verification of the input data based on defined Data Validation Request Criteria (as these are set in the Data Needs Tables (see Appendix **Error! Reference source not found.**). If the criteria are met, then the system shall flag the data and notify both the TCT SME and the RC requesting validation of the said data by the RC. If the RC confirms the validity of the data, then the system shall accept the provided data and proceed to the next step.

4.3.5 After the verification procedure by the RC, the TCT Subject Matter Experts are expected to perform the final verification of the data before this is flagged as validated. In case some discrepancies are identified during the final step of verification, the TCT SME should notify the RC and request a revision.

4.3.6 All the above-mentioned requests and notifications shall be facilitated by the system. The data collection and validation process is depicted in Figure 4-3.

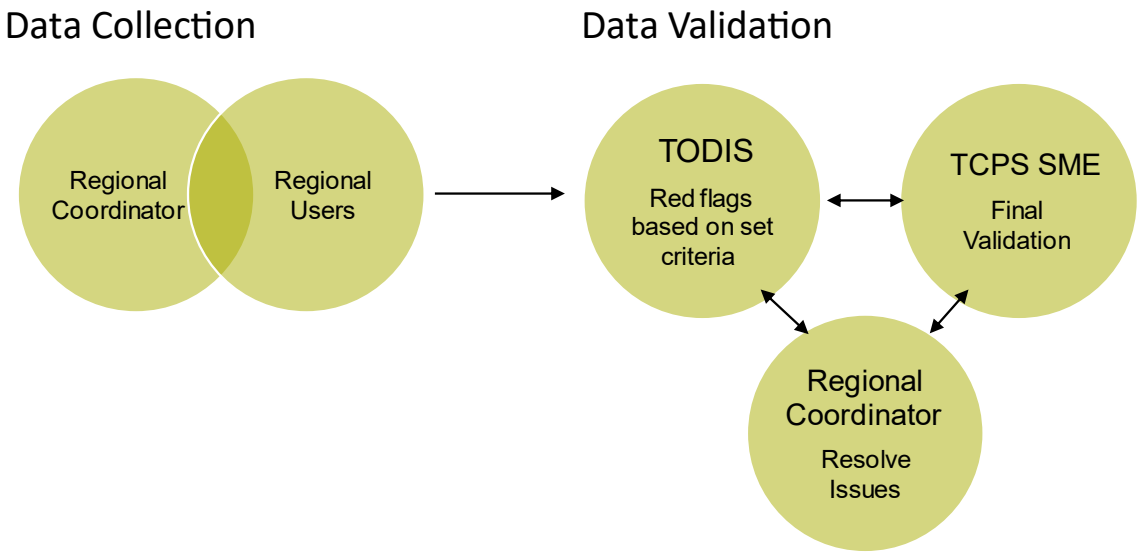

Figure 4-3: Data Collection and Validation Process

Future Extensions

4.3.7 The process and data flows described above shall apply for regular operation of TODIS, following system implementation and taking over. The initial population of TODIS with data shall be performed by the Contractor, as provided in the Technical Specifications.

4.3.8 In the future, whenever a component/ function is added under the TODIS umbrella (e.g. Road Safety Observatory, Environmental Model), the following steps will be followed:

- Identification of any additional data needs and sources for the new component/ function.
- Confirmation of the available data formats and collection mechanisms.
- Adjustment of TODIS input database to facilitate the identified additional data (in terms of adding the relevant parameters).
- Incorporation of the identified data needs in the data collection process

4.3.9 Based on the above, TODIS shall include a module that will allow the Operations Administrator to define and introduce new data inputs/ parameters into the system

4.4 Data Analysis and Interrogation

4.4.1 After the data collection is completed, the data becomes available for analysis, always providing its status in regard to validity (i.e., validated/ non-validated). The latest available data from both statuses (i.e., validated/ non-validated) is used for all subsequent years until a new entry is input for a given year.

4.4.2 The data analysis GUI for performance monitoring shall include both a map and a tabular interface. The user shall be able to select parts of the TEN-T network on the following levels:

- Input (per individual input – dependent of the data input granularity)

- Section (geographical section including more than one individual input)
- TEN-T Corridor
- Network (core/ comprehensive)
- Sector (Road, Rail, IWW, Seaports, Airports, Border Crossings, Freight Terminals)
- Regional Participant
- User defined area within the Transport Community
- Transport Community (entire database)

4.4.3 The user shall be able to define what is included in the analysis, by selecting:

- data categories/ individual parameters/ KPIs
- to include unvalidated data or not
- the reference year(s)

4.4.4 The user shall also be able to compare the data categories/ individual parameters/ KPIs (in the form of absolute values or % change) between different:

- time periods;
- sections of the TEN-T network (as defined in paragraph 4.4.2)

4.4.5 By selecting the above at will, the user can precisely define the geographical extent and objective of the analysis performed.

Key Performance Indicators

4.4.6 TODIS will utilise KPIs that facilitate gauging and quantifying the performance of both the TEN-T networks and projects.

4.4.7 As such, the KPIs cover all TEN-T network elements, i.e.:

- Roads
- Railways
- Inland Waterways (IWW)
- IWW Ports
- Seaports
- Airports
- Freight Terminals
- Border Crossings

4.4.8 It should be noted that the majority of the data inputs can be and are used as KPIs. But the collected data/ information cannot provide the full picture in regard to performance, thus further composite KPIs are introduced to cover all aspects of performance monitoring. In parallel a number of statistical indicators are introduced to illustrate the distribution of various parameters across the available ranges/ options.

Future Extensions

4.4.9 It is possible that in the future, the need for a new KPI or statistical indicator is materialised. TODIS shall include a module that will allow the Ops Admin to define and introduce new KPIs/ statistical indicators into the system, using a built-in formula builder function.

TEN-T Network Performance Monitoring

4.4.10 The analysis of the current characteristics of the TEN-T network infrastructure and their corresponding operational data are key factors in detecting the main technical deficiencies and existing bottlenecks in the general network. Likewise, the yearly updating of these data provides with suitable tools to properly analyse the evolution and future needs.

4.4.11 For the purposes of the TEN-T Network Performance Monitoring, the composite KPIs and statistical indicators are divided in the following categories in regard to both the infrastructure status and operation/ service performance:

- Infrastructure, including
  - Upgrade Requirements, and
  - Climate Change Resilience
- TEN-T Compliance
- Operations
- Safety (both for TEN-T and strategic network)
- Maintenance
- Environmental Impact

TEN-T Project Monitoring

4.4.12 The analysis of the TEN-T Projects will be focused on project-related data (both static and dynamic) covering all aspects required for proper monitoring of the implementation process and overall evaluation of the project performance.

4.4.13 Similarly, for the TEN-T Project Monitoring the palette of tools for the evaluation of both implemented and live projects is divided in the following categories:

- Project Type
- TEN-T Eligibility & Compliance
- Project Status
- Project Funding
- Performance Indicators for Implemented Projects:
  - Project Timeline
  - Cost Deviations
  - Revenue Deviations
  - Traffic Deviations

- Performance Indicators for Live Projects:
  - Project Timeline
  - Project Technical Status
  - Social Indicators
  - Economic Feasibility
  - Financial Viability
  - Environmental Impact

4.4.14 The detailed tables with all composite KPIs and statistical indicators are presented in Appendix **Error! Reference source not found.**.

4.5 TODIS Outputs

4.5.1 The overall objective of TODIS is to become the main information repository in relation to the TEN-T in the Western Balkans and the EU Acquis transposition monitoring for each of the Regional Participants.

4.5.2 This will be facilitated by the outputs of TODIS that will provide the necessary information and data for the analysis required for both political and technical decision-making processes.

4.5.3 A high-level overview of the expected utilisation of TODISs' outputs is presented in Figure 4-4.

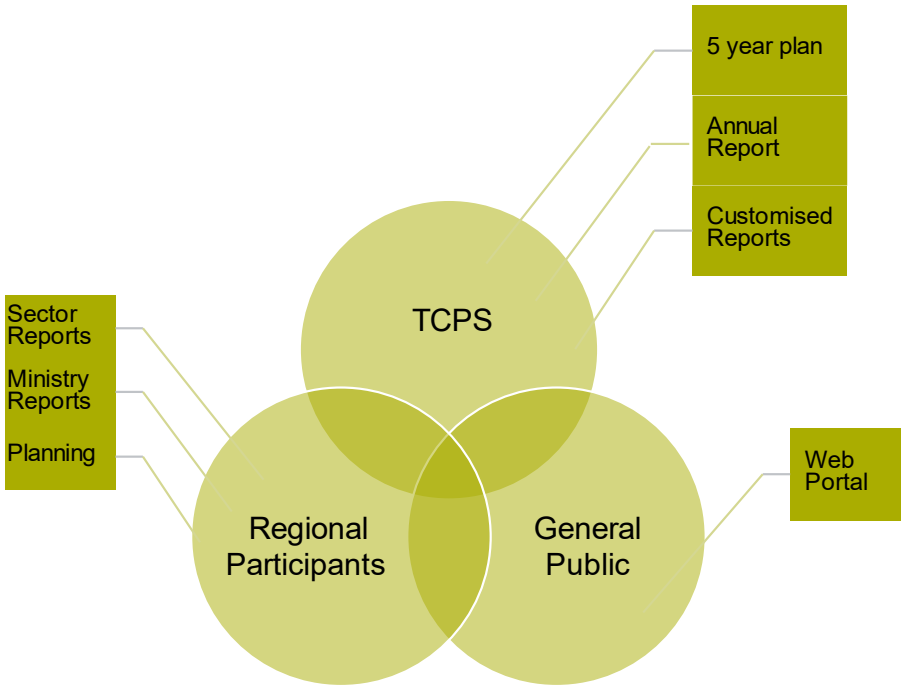

Figure 4-4: TODIS – High-level outputs

4.5.4 In terms of outputs, given that the user – machine interaction is entirely based on an interactive GUI, the results of the performance analysis will be presented using:

- project/ network sheets (providing reporting summaries);
- tables and charts (for in depth review of the results)
- the interactive map (for further user interaction)
- dashboards (including combinations of all the above)

4.5.5 In order to better visualise the performance of the selected part of the TEN-T network, the resulting data shall be illustrated:

- colour coded, based on:
  - user pre-defined thresholds/ criteria; or
  - the actual data values (i.e., colour scales).
- as percentiles per parameter/ KPI value;
- filtered or sorted by any of the data categories/ individual parameters/ KPIs
- indicate their status in regard to validity (i.e., based on verified data/ data pending verification).

4.5.6 The colour coding of the data can be also utilised as a red flag system identifying the outliers or sections exceeding certain thresholds (system or user defined).

4.5.7 All analysis and reporting outputs shall be easily extracted in a variety of formats (e.g., MS Word, MS Excel, PDF, JPG, etc.) for further analysis and dissemination.

4.5.8 The TODIS built in reporting tool will facilitate the creation of fully customisable outputs using a range of templates based on the following available formats:

- Project Reference Sheet
- Network Reference Sheet
- Data Table
- Charts
- Maps
- Dashboards

Appendices:

Appendix A – TODIS Data Needs Tables
Appendix B – Data availability and format
Appendix C – TODIS Key Performance Indicators

Appendices

Appendix A – TODIS Data Need Tables

TRANSPORT COMMUNITY

Roads - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Annually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Corridor/ Route				≠ previous	
	International Route ID				≠ previous	
	National Route ID				≠ previous	
	Start Node Name				≠ previous	
	End Node Name				≠ previous	
	Start km	Direction A			≠ previous	
		Direction B			≠ previous	
	End km	Direction A			≠ previous	
		Direction B			≠ previous	
	Status	Planned/ Existing/ Upgrade			≠ previous	
	Data valid from	year				
	Data valid to	year				
Infrastructure Data	Category	Motorways/ Dual Carriageways/ Single Carriageways			≠ previous	
	Pavement Condition	1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing Course (NWC) (IRI [2.84- 5.09]) 3b. Medium PRH, describes a road which needs Pavement Rehabilitation (PRH) (IRI [2.84 – 5.09]) 4. Poor, means that the road needs a new Overlay and Wearing Course (OWC) (IRI [5.09 – 8.94]) 5. Very Poor, describes a road which needs a Completely New Pavement (CNP) (IRI [8.94 -])			1) higher than previous 2) diff with previous >2	
	Lanes	Direction A			≠ previous	
		Direction B			≠ previous	
	Length - Total (km)	Direction A			≠ previous	
		Direction B			≠ previous	
	Length - Open Road (km)	Direction A			≠ previous	
		Direction B			≠ previous	
	Length - Tunnels (km)	Direction A			≠ previous	
		Direction B			≠ previous	
	Length - Bridges over 12m length (km)	Direction A			≠ previous	
		Direction B			≠ previous	
	Tunnels	Direction A (absolute number)			≠ previous	
		Direction B (absolute number)			≠ previous	
	Parking areas	Direction A (absolute number)			≠ previous	
		Direction B (absolute number)			≠ previous	
	Fuel Stations	Direction A (absolute number)			≠ previous	
		Direction B (absolute number)			≠ previous	
		Type of fuels (Diesel, Gas, CNG, LNG, Hydrogen, Charging Point)			≠ previous	
	Design Speed	km per hour			≠ previous	
	Speed limit	km per hour			≠ previous	
	Operating Speed	km per hour			≠ previous	
	Length through locality (km)	Direction A				
		Direction B				
	Max Longitudinal Gradient (%)	Direction A			≠ previous	
		Direction B			≠ previous	
	Max Permitted Weight	per vehicle (tons)			≠ previous	
		axle load (kN)			≠ previous	
	Capacity	minimum lane capacity per hour (PCUs) for both directions		1200	≠ previous	
	Tolled	yes/ no			≠ previous	
	Type of Tolls	per km/ per day			≠ previous	
	Charging Method	stations/ free flow/ vignette/ GNSS			≠ previous	
	Number of Toll Station Lanes	manned/ electronic			≠ previous	
	Intelligent Transport Systems (ITS)	yes/no			≠ previous	
	Type of ITS	list all ITS installed			≠ previous	
	Operation Supervised by Control Centre	yes/ no			≠ previous	
	Data valid from	year				
	Data valid to	year				

TRANSPORT COMMUNITY

Roads - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
TEN-T Compliance	TEN-T Requirements Compliant	yes/no as per art. 17.3 (a) and (b) of Regulation 1315/2013		To be automatically determined based by the criteria provided by the Directive	≠ previous	
	Alternative Fuels Availability	yes/no as per Directive no. 2014/94/EU		To be automatically determined based on infrastructure sufficiency criteria/no. of km	≠ previous	
	ITS Compliance	yes/no as per Directive 2010/40/EU			≠ previous	
	Tolling Interoperability	yes/no as per Directive 2004/52/EC and Commission Decision no. 2009/750/EC			≠ previous	
	Safety Compliance	yes/no as per Directive 2008/96/EC			≠ previous	
	Road Tunnels Compliance (length >500m)	yes/no as per Directive 2004/54/EC			≠ previous	
	Data valid from	year				
	Data valid to	year				
Operations Data	Total traffic flow	AADT or vehicles per year			diff with previous > 10%	
	Passenger cars	AADT or vehicles per year			diff with previous > 10%	
	Busses	AADT or vehicles per year			diff with previous > 10%	
	Trucks	AADT or vehicles per year			diff with previous > 10%	
	International traffic	% of AADT or total traffic flow			diff with previous > 10%	
	Percentage of HGVs	% of AADT or total traffic flow		[73]/[70]	diff with previous > 10%	
	Freight traffic flow	tons per year			diff with previous > 10%	
		vehicles per year		[73]	diff with previous > 10%	
	Dangerous goods vehicles	Number per year or % of AADT or total traffic flow			diff with previous > 10%	
	Passengers	number			diff with previous > 10%	
	Average travel time (PCs)	in minutes		AVG([30,31]x60)/[47]	diff with previous > 10%	
	Average travel time (HVGs)	in minutes		AVG([30,31]x60)/min([47],[83])	diff with previous > 10%	
	Toll Rate Currency	Currency (e.g. Euro)			diff with previous > 10%	
	Toll Rate Passenger Cars	per km (e.g. Euro per km)			diff with previous > 10%	
		per day (e.g. Euro per day)			diff with previous > 10%	
	Toll Rate Heavy Good Vehicles	per km (e.g. Euro per km)			diff with previous > 10%	
		per day (e.g. Euro per day)			diff with previous > 10%	
	% toll evasion	% of vehicles			diff with previous > 10%	
	Data valid for	year				
Road Safety	Total number of road traffic crash	absolute number			diff with previous > 10%	
	Road traffic crash with serious injuries only	absolute number				
	Fatal road traffic crash	absolute number				
	Chainage (km position) of road traffic crashes with injury/ fatality					
	Total injured	number of persons				
	Seriously injured	number of persons				
	Fatalities	number of persons				
	Road Safety Audit carried out at design stage	yes/ no			≠ previous	
	Section ranked as high/risk	yes/ no			≠ previous	
	Road Safety Inspections carried out	Total number				
		Corresponding dates				
	Data valid for	year				
Regular Maintenance	Maintenance cost - Total	Euros per km per year			diff with previous > 10%	
	Maintenance cost - Open Road	Euros per km per year			diff with previous > 10%	
	Maintenance cost - Tunnel	Euros per km per year			diff with previous > 10%	
	Maintenance cost - Bridges	Euros per km per year			diff with previous > 10%	
	Heavy/ Periodic Maintenance Cost	Euros per km per year (Activities on a section of road at regular and relatively long intervals, aims to preserve the structural integrity of the road (preventive resurfacing, overlay, and pavement reconstruction)			diff with previous > 10%	
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention, such as collapsed culverts or landslides that block a road)			diff with previous > 10%	
	Winter Maintenance Cost	Euros per km per year			diff with previous > 10%	
	Routine Maintenance Cost	Euros per km per year (The rest of maintenance cost for the said year)			diff with previous > 10%	
	Source of finance				≠ previous	
	Data valid for	year				

Roads - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Heavy/ Periodic Maintenance Requirements	Requiring rehabilitation - Open Road	length of section (km)			≠ previous	
	Requiring rehabilitation - Tunnel	length of section (km)			≠ previous	
	Requiring rehabilitation - Bridges	length of section (km)			≠ previous	
	Requiring heavy/ periodic maintenance - Open Road	length of section (km)			≠ previous	
	Requiring heavy/ periodic maintenance - Tunnel	length of section (km)			≠ previous	
	Requiring heavy/ periodic maintenance - Bridges	length of section (km)			≠ previous	
	Data valid for	year				
Upgrading	Requiring upgrade to increase capacity - Open Road	length of section (km)			≠ previous	
	Requiring upgrade to increase capacity - Tunnel	length of section (km)			≠ previous	
	Requiring upgrade to increase capacity - Bridges	length of section (km)			≠ previous	
	Data valid for	year				
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)			diff with previous > 10%	
	CO2 emissions				diff with previous > 10%	
	NOx emissions				diff with previous > 10%	
	SO2 emission evolution				diff with previous > 10%	
	Non-methane hydrocarbons				diff with previous > 10%	
	Particulate matter (ppm)				diff with previous > 10%	
	Noise	Noise levels along the section		To be calculated based on inputs like traffic level, speed, composition, road gradient and road surface	diff with previous > 10%	
	Climate change resilience	number of flooding incidents			diff with previous > 10%	
		number of closures due to adverse weather conditions			diff with previous > 10%	
		number of embankment failures			diff with previous > 10%	
		number of winter maintenance days			diff with previous > 10%	
	Data valid for	year				
Geospatial data	Location of Road	Line geometry			≠ previous	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of parking areas	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of fuel stations	Point geometry or x,y coordinates			≠ previous	
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates				
	Data valid for	year				

Road Safety

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Annually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	Population	number of inhabitants			diff with previous > 2%	
	Fleet size	number of registered vehicles			diff with previous > 5%	
Road Safety Data	Total number of road traffic crashes	number			diff with previous > 10%	
	Total number of road traffic crashes - Motorway (tolled)	number			diff with previous > 10%	
	Total number of road traffic crashes - Motorway (toll-free)	number			diff with previous > 10%	
	Total number of road traffic crashes - Primary Roads (dual carriageway)	number			diff with previous > 10%	
	Total number of road traffic crashes - Primary Roads (single carriageway)	number			diff with previous > 10%	
	Total number of road traffic crashes - Secondary Roads	number			diff with previous > 10%	
	Total number of road traffic crashes - Rural Roads	number			diff with previous > 10%	
	Total number of road traffic crashes - Urban Roads	number			diff with previous > 10%	
	Road traffic crashes with serious injuries only	number			diff with previous > 10%	
	Fatal road traffic crashes	number			diff with previous > 10%	
	Seriously Injured	number of persons			diff with previous > 10%	
	Fatalities	number of persons			diff with previous > 10%	
	Cause of accident (%)	alcohol			diff with previous > 10%	
		speed			diff with previous > 10%	
		infrastructure			diff with previous > 10%	
		use of electronic devices (mobile phone, GPS, etc)			diff with previous > 10%	
		vehicle not corresponding to standard			diff with previous > 10%	
	Data valid for	year				

Railways - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Annually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Corridor/ Route				≠ previous	
	International Route ID				≠ previous	
	National Route ID				≠ previous	
	Start Node Name				≠ previous	
	End Node Name				≠ previous	
	Start km	Direction A			≠ previous	
		Direction B			≠ previous	
	End km	Direction A			≠ previous	
		Direction B			≠ previous	
	Status	Planned/ Existing/ Upgrade			≠ previous	
	Data valid from	year				
	Data valid to	year				

TRANSPORT COMMUNITY

Railways - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Infrastructure Data	Capacity	trains/ day			≠ previous	
	Track gauge	750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1602 / 1668			≠ previous	
	Load gauge	A GAUGE: Total height 3.85 m above t- he rail and 1.28 m on either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle B+ GAUGE: Total height is 4.18 m above the rail and 1.36 m on either side of the track axle C GAUGE: Total height 4.65 m above the rail and 1.45 m on either side of the track axle			≠ previous	
	Condition of track (Operational/ Design Speed)	Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)			1) higher than previous 2) diff with previous >2	
	Number of tracks	Total (most relevant figures, e.g. if a single track railway of 10km has 2km stretch of two tracks, the relevant			≠ previous	
	Traction	Diesel			≠ previous	
		Electrified			≠ previous	
	Rail voltage	25 000 Volts, 50Hz 15 000 Volts, 16 2/3 Hz 3 000 Volts, DC 1 500 Volts, DC 750 Volts DC 660 Volts DC 630 Volts DC			≠ previous	
	Length - Total (km)				≠ previous	
	Length - Open Track (km)				≠ previous	
	Length - Tunnels (km)				≠ previous	
	Length - Bridges over 12m length (km)				≠ previous	
	Tunnels	number			≠ previous	
	Level-Crossings	total number			≠ previous	
		number of passive level crossings			≠ previous	
		number of active level crossings (manual)			≠ previous	
		number of active level crossings (automatic with user-side warning)			≠ previous	
		number of active level crossings (automatic with user-side protection)			≠ previous	
		number of active level crossings (rail-side protected)			≠ previous	
	Max Design Speed	km per hour			≠ previous	
	Max Operating Speed	km per hour			≠ previous	
	Max Longitudinal Gradient (m per km)	Direction A			≠ previous	
		Direction B			≠ previous	
	Min radius	meters			≠ previous	
	Maximum train length	meters			≠ previous	
	Max Axle load	kN			≠ previous	
	Signalling Standard				≠ previous	
	Traffic Management				≠ previous	
	ERTMS in operation	yes/no			≠ previous	
	ERTMS level	1 - is designed as an add-on to or overlays a conventional line already equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard unit using GSM-R.			≠ previous	
	Control & Command System	Specify which system is used to ensure safety and to command and control movements of trains authorised to			≠ previous	
	Data valid from	year				
	Data valid to	year				
TEN-T Compliance	Electrification	yes/no (Not applicable for isolated networks. Applies to line trucks and sidings, to the extent necessary for			≠ previous	
	Railway Tunnels Compliance	yes/no as per Directive 2014/1303/EC as amended by 2016/912/EC and 2019/776/EC			≠ previous	
	Freight Line Speed	yes/no (At least 100km (Only applicable for the freight lines of the Core Network. Isolated networks are			≠ previous	
	Freight Line Axle Load	yes/no (At least 22.5t (Only applicable for the freight lines of the Core Network. Isolated networks are			≠ previous	
	Freight Line Train Length	yes/no (At least 750m (Only applicable for the freight lines of the Core Network. Isolated networks are			≠ previous	
	Track Gauge 1435mm	yes/no (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network the track gauge of which is different and detached from the TEN-T network)			≠ previous	
	ERTMS Deployment	yes/no (European Train Control System (ETCS) - Not applicable for isolated networks)			≠ previous	
		yes/no (Global System for Mobile communications for Railways (GSM-R) - Not applicable for isolated networks)			≠ previous	
	Data valid from	year				
	Data valid to	year				
	Passenger Trains	number per 24 hours			diff with previous > 10%	

TRANSPORT COMMUNITY

Railways - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Operations Data	Freight Trains	number per 24 hours			diff with previous > 10%	
	Dangerous Goods Freight Trains	number per 24 hours			diff with previous > 10%	
	Capacity used	% of capacity			diff with previous > 10%	
	Passenger traffic	number per year			diff with previous > 10%	
		passenger km per year			diff with previous > 10%	
		commercial speed			diff with previous > 10%	
	Freight traffic	tons per year			diff with previous > 10%	
		tkm per year			diff with previous > 10%	
		commercial speed			diff with previous > 10%	
	TEUs	TEU containers per year			diff with previous > 10%	
	Unitised	% in standard loading units			diff with previous > 10%	
	Non Unitised	% of bulk and general traffic			diff with previous > 10%	
	National traffic	% of total traffic			diff with previous > 10%	
	Average travel time passenger (incl. stops)	long distance trains only		=[34]/60/[41]	diff with previous > 10%	
	Average travel time freight (incl. stops)	long distance trains only			diff with previous > 10%	
	Average delay passenger trains	long distance trains only			diff with previous > 10%	
	Average delay freight trains	long distance trains only			diff with previous > 10%	
	Data valid for	year				
Safety	Number of Incidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				
	Number of Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				
	Number of Significant Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety and ERA CSI Implementation				
	Number of Serious Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				
	Serious Accidents - Number of Serious Injuries	absolute number				
	Serious Accidents - Number of Fatalities	absolute number				
	Serious Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)				
	Serious Accidents - Amount of Material Damage	EUR per year				
	Serious Accidents - Disruption of traffic	hours per year				
	Serious Accidents - Indirect damages related to delays	EUR per year				
	Significant Accidents - Number of Significant Injuries	absolute number				
	Significant Accidents - Number of Fatalities	absolute number				
	Significant Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)				
	Significant Accidents - Amount of Material Damage	EUR per year				
	Significant Accidents - Disruption of traffic	hours per year				
	Significant Accidents - Indirect damages related to delays	EUR per year				
	Data valid for	year				
Regular Maintenance	Maintenance cost - Total	Euros per year per km		=[98]/[34]	diff with previous > 10%	
	Maintenance cost - Total	Euros			diff with previous > 10%	
	Maintenance cost - Infrastructure	Euros per year (rail track, switches and crossings, tunnels, bridges, level crossings, etc.)			diff with previous > 10%	
	Maintenance cost - Signalling and telecom system	Euros per year (Maintenance of rail station signalling, automatic block system, automatic and mechanical level crossings, maintenance of railway telecommunication cable, self supporting telecommunications cable, optical			diff with previous > 10%	
	Maintenance cost - Electrification system	Euros per year (Maintenance of catenaries, electric railway substations, overhead lines, etc.)			diff with previous > 10%	
	Source of finance				≠ previous	
	Data valid for	year				
Heavy Maintenance	Requiring heavy maintenance	length of section (km)			≠ previous	
	Requiring rehabilitation	length of section (km)			≠ previous	
	Data valid for	year			≠ previous	

Railways - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Upgrading	Requiring upgrade to increase capacity	length of section (km)			≠ previous	
	Requiring upgrade (additional track/ new line)	length of section (km)			≠ previous	
	Data valid for	year			≠ previous	
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)			diff with previous > 10%	
	CO2 emissions				diff with previous > 10%	
	NOx emissions				diff with previous > 10%	
	SO2 emission evolution				diff with previous > 10%	
	Non-methane hydrocarbons				diff with previous > 10%	
	Particulate matter (ppm)				diff with previous > 10%	
	Noise	Noise levels along the section			diff with previous > 10%	
	Climate change resilience	number of flooding incidents			diff with previous > 10%	
		number of closures due to adverse weather conditions			diff with previous > 10%	
		number of embankment failures			diff with previous > 10%	
	Data valid for	year				
Geospatial data	Location of Railway Line	Line geometry			≠ previous	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of Stations	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of level crossings	Point geometry or x,y coordinates			≠ previous	
	Location of serious accidents	Point geometry or x,y coordinates				
	Data valid for	year				

Freight Terminal - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Annually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Node Name				≠ previous	
	Ownership Type	Government/ Private/ Mixed			≠ previous	
	Owner #1	Name			≠ previous	
	Ownership Percentage	%			≠ previous	
	Owner #x	Name			≠ previous	
	Ownership Percentage	%			≠ previous	
	Data valid from	year				
	Data valid to	year				
Infrastructure Data	Total area	ha			≠ previous	
	Condition	Very Good Good Medium Poor Very Poor			1) higher than previous 2) diff with previous >2	
	Transhipment equipment	Gantry cranes, Mobile cranes, Fork lifters, Reach stackers, Luffing-slewing cranes, etc.			≠ previous	
	Transhipment facilities for intermodal transport	yes/ no			≠ previous	
	Rail Connection	yes/no			≠ previous	
		number of tracks connecting the port with the hinterland network			≠ previous	
	Traction	Diesel			≠ previous	
		Electrified			≠ previous	
	Load gauge	A GAUGE: Total height 3.85 m above t - he rail and 1.28 m on either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle B+ GAUGE: Total height is 4.18 m above the rail and 1.36 m on either side of the track axle C GAUGE: Total height 4.65 m above the rail and 1.45 m on either side of the track axle			≠ previous	
	Max Axle load	kN			≠ previous	
	Road Connection	yes/no			≠ previous	
		number of lanes connecting the port with the hinterland network			≠ previous	
	IWW Connection	yes/no			≠ previous	
	Sea Connection	yes/no			≠ previous	
	Air Connection	yes/no			≠ previous	
	Clean fuel availability	yes/no			≠ previous	
	Freight Capacity	tons per year (terminal maximum cargo handling capacity)			≠ previous	
	Open storage	m2			≠ previous	
	Silos Capacity	m3			≠ previous	
	Stack area	m2			≠ previous	
	Tanks Capacity	m3			≠ previous	
	Warehouse Capacity	m3			≠ previous	
	Reefer Capacity	number			≠ previous	
	Fridge Capacity	m3			≠ previous	
	Hazardous goods Capacity	m3			≠ previous	
	Intelligent Transport Systems (ITS)	yes/no			≠ previous	
	Type of ITS	list all ITS installed			≠ previous	
	Data valid from	year				
	Data valid to	year				
TEN-T Compliance	Inter-modality	Terminals provide the possibility to tranship all types of standard intermodal loading units (containers,			≠ previous	
	740m train length	Fulfilment of this criterion is restricted to recently constructed terminals.			≠ previous	
	Electrified access	Enable direct train departure to the (Corridor) electrified line. At least one in/outbound track line should provide electrifications for this criterion to be considered fulfilled.			≠ previous	
	Open availability	Free non-discriminatory access and transparent charges.			≠ previous	
	Data valid from	year				
	Data valid to	year				

Freight Terminal - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Operations Data	Terminal traffic	vehicles per year			diff with previous > 10%	
		trains per year			diff with previous > 10%	
		vessels per year			diff with previous > 10%	
		aircrafts per year			diff with previous > 10%	
	Freight traffic - Total	tons per year			diff with previous > 10%	
	Freigtht traffic - Tons loaded	kT/year			diff with previous > 10%	
	Freigtht traffic - Tons unloaded	kT/year			diff with previous > 10%	
	TEU tons	kT/year			diff with previous > 10%	
	TEUs	TEU containers per year			diff with previous > 10%	
	RoRo	kT/year			diff with previous > 10%	
	RoRos	number of vehicles			diff with previous > 10%	
	Domestic traffic	% of TEU tons			diff with previous > 10%	
	Transport Community Traffic	% of TEU tons			diff with previous > 10%	
	EU traffic	% of TEU tons			diff with previous > 10%	
	Containers traffic by origin/ destination	TEU tons				
	Storage capacity used	% of capacity			diff with previous > 10%	
	Transhipment capacity used	% of capacity			diff with previous > 10%	
	Data valid for	year				
Regular Maintenance	Maintenance cost - Total	Euros per year			diff with previous > 10%	
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention)			diff with previous > 10%	
	Routine Maintenance Cost	Euros per year (The rest of maintenance cost for the said year)			diff with previous > 10%	
	Source of finance				≠ previous	
	Data valid for	year				
Upgrading	**Requiring upgrade to increase capacity**	**yes/no**			**≠ previous**	
	Data valid for	**year**				
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)			diff with previous > 10%	
	CO2 emissions				diff with previous > 10%	
	NOx emissions				diff with previous > 10%	
	SO2 emission evolution				diff with previous > 10%	
	Non-methane hydrocarbons				diff with previous > 10%	
	Particulate matter (ppm)				diff with previous > 10%	
	Climate change resilience	number of flooding incidents			diff with previous > 10%	
	Data valid for	year				
Geospatial data	Location of the Freight Terminals	Point geometry or x,y coordinates			≠ previous	
	Data valid for	year				

Inland Waterways - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	**Name of responsible Company/Authority**		**Annually**			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	**Country Code**					
	TEN-T Category	**Core/ Comprehensive**			**≠ previous**	
	River				**≠ previous**	
	International Commission	**yes/no (Involved in International Commission/ Agreement)**			**≠ previous**	
	Start Node Name				**≠ previous**	
	End Node Name				**≠ previous**	
	Status	**Planned/ Existing/ Upgrade**			**≠ previous**	
	Data valid from	**year**				
	Data valid to	**year**				
Infrastructure Data	**CEMT class**	**Categories of navigable inland waterways - Class (length/beam) I to III IV V a V b VI a VI b VI cVII**			**1) higher than previous 2) diff with previous >2**	
	Width	**m**			**≠ previous**	
	Condition	**Very Good Good Medium Poor Very Poor**			**1) higher than previous 2) diff with previous >2**	
	Single locks	number			≠ previous	
	Double locks	number			≠ previous	
	Ports, transhipment or storage facilities	number			≠ previous	
	Min Draught	**m**			**≠ previous**	
	Min Bridge Height	**m**			**≠ previous**	
	Max Vessel Length	m			≠ previous	
	Max Vessel Width	m			≠ previous	
	Operation Speed (km/h)	Upstream			≠ previous	
		Downstream			≠ previous	
	Intelligent Transport Systems (ITS)	**yes/no**			**≠ previous**	
	Type of ITS	**list all ITS installed**			**≠ previous**	
	River Information System (RIS)	**in operation (yes/no)**			**≠ previous**	
	Data valid from	**year**				
	Data valid to	**year**				
TEN-T Compliance	**Category**	**yes/no (CEMT Class IV (as per the new classification of IWW established by the European Conference of**			**≠ previous**	
	Draught	**yes/no (At least 2.5m)**			**≠ previous**	
	Bridge Height	**yes/no (At least 5.25m)**			**≠ previous**	
	Good Navigation Status Maintenance	**yes/no (Rivers, canals and lakes are maintained so as to preserve good navigation status, with full observance of the applicable environmental law)**			**≠ previous**	
	RIS Deployment	**yes/no (as per Directive 2005/44/EC)**			**≠ previous**	
	Data valid from	**year**				
	Data valid to	**year**				

Inland Waterways - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Operations Data	Traffic	total vessels per year (both upstream/ downstream)			diff with previous > 10%	
	Passenger traffic	passengers per year			diff with previous > 10%	
	Freight traffic	tons per year			diff with previous > 10%	
	Dangerous Goods tons turnover	tons per year			diff with previous > 10%	
	TEUs	TEU containers per year			diff with previous > 10%	
	Unitised	% in standard loading units			diff with previous > 10%	
	Non Unitised	% of bulk and general traffic			diff with previous > 10%	
	Data valid for	year				
Regular Maintenance	Maintenance cost - Total	Euros per year		=[54]+[55]	diff with previous > 10%	
	Maintenance cost - Landside Infrastructure	Euros per year (Works on land infrastructure and facilities)			diff with previous > 10%	
	Maintenance cost - Riverside Infrastructure	Euros per year (Works conducted to ensure the right navigability on the waterway, e.g. dredging, riverbed			diff with previous > 10%	
	Source of finance				≠ previous	
	Data valid for	year				
Heavy Maintenance	**Requiring heavy maintenance**	**length of section (km)**			**≠ previous**	
	Requiring rehabilitation	**length of section (km)**			**≠ previous**	
	Data valid for	**year**				
Upgrading	**Requiring upgrade to increase capacity**	**length of section (km)**			**≠ previous**	
	Data valid for	**year**				
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)			diff with previous > 10%	
	CO2 emissions				diff with previous > 10%	
	NOx emissions				diff with previous > 10%	
	SO2 emission evolution				diff with previous > 10%	
	Non-methane hydrocarbons				diff with previous > 10%	
	Particulate matter (ppm)				diff with previous > 10%	
	Climate change resilience	number of flooding incidents			diff with previous > 10%	
		number of closures due to adverse weather conditions			diff with previous > 10%	
		number of embankment failures			diff with previous > 10%	
	Data valid for	year				
Geospatial data	Location of the IWW	Line geometry			≠ previous	
	Single locks	Point geometry or x,y coordinates			≠ previous	
	Double locks	Point geometry or x,y coordinates			≠ previous	
	Ports, transhipment or storage facilities	Point geometry or x,y coordinates			≠ previous	
	Data valid for	year				

Inland Waterways Ports - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	**Name of responsible Company/Authority**		**Annually**			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	**Country Code**					
	TEN-T Category	**Core/ Comprehensive**			**≠ previous**	
	Node Name				**≠ previous**	
	Ownership Type	Government/ Private/ Mixed			≠ previous	
	Owner #1	Name			≠ previous	
	Ownership Percentage	%			≠ previous	
	Owner #x	Name			≠ previous	
	Ownership Percentage	%			≠ previous	
	Data valid from	**year**				
	Data valid to	**year**				
Infrastructure Data	**Activity**	**Freight/ Passenger/ Passenger and freight**			**≠ previous**	
	Condition	**Very Good** **Good** **Medium** **Poor** **Very Poor**			**1) higher than previous** **2) diff with previous >2**	
	Total area	m2 (All land- and water-area which belongs to the port)			≠ previous	
	Open storage	m2			≠ previous	
	Covered storage	m2			≠ previous	
	Cold storage	m2			≠ previous	
	Storage of dangerous goods	m2			≠ previous	
	Handling equipment	Gantry cranes, Mobile cranes, Fork lifters, Reach stackers, Luffing-slewing cranes, etc.			≠ previous	
	Quay Length	m			≠ previous	
	Berths	number			≠ previous	
	Maximum draught (natural or dredged)	m (maximum draught of ship which may enter the port)			≠ previous	
	Port terminals	ha			≠ previous	
	Combined terminals	ha			≠ previous	
	Passenger terminals	m2			≠ previous	
	Passenger Capacity	passengers per year (port maximum passenger handling capacity - the combined product of ports facilities and			≠ previous	
	Container terminal	yes/ no			≠ previous	
	Freight Capacity	tons per year (port maximum cargo handling capacity - the combined product of ports facilities and associated			≠ previous	
	RoRo facilities	**yes/ no**			**≠ previous**	
	Transhipment facilities for intermodal transport	**yes/ no**			**≠ previous**	
	Rail Connection	**yes/no**			**≠ previous**	
		number of tracks connecting the port with the hinterland network			**≠ previous**	
	Road Connection	**yes/no**			**≠ previous**	
		number of lanes connecting the port with the hinterland network			**≠ previous**	
	Intelligent Transport Systems (ITS)	**yes/no**			**≠ previous**	
	Type of ITS	**list all ITS installed**			**≠ previous**	
	Vessel Traffic Management Information System (VTMIS)	**in operation (yes/no)**			**≠ previous**	
	Data valid from	**year**				
	Data valid to	**year**				
TEN-T Compliance	**Rail Connection**	**yes/no**			**≠ previous**	
	Road Connection	**yes/no**			**≠ previous**	
	Clean fuels availability	**yes/no (Only applicable for the Core Network)**			**≠ previous**	
	Terminal availability	**yes/no (At least one terminal open to all operators in a non-discriminatory way and shall apply transparent charges)**			**≠ previous**	
	RIS Deployment	**yes/no (as per Directive 2005/44/EC)**			**≠ previous**	
	Data valid from	**year**				
	Data valid to	**year**				

Inland Waterways Ports - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Operations Data	Port traffic	vessels per year			diff with previous > 10%	
	Passenger traffic	passengers per year			diff with previous > 10%	
	Freight traffic	tons per year			diff with previous > 10%	
	Dangerous Goods ton turnover	kT/year			diff with previous > 10%	
	Total turnover	kT/year			diff with previous > 10%	
	Tons loaded	kT/year			diff with previous > 10%	
	Tons unloaded	kT/year			diff with previous > 10%	
	Oil tons	kT/year			diff with previous > 10%	
	Liquid bulk tons	kT/year			diff with previous > 10%	
	Dry bulk tons	kT/year			diff with previous > 10%	
	General bulk tons	kT/year			diff with previous > 10%	
	TEU tons	kT/year			diff with previous > 10%	
	TEUs	TEU containers per year			diff with previous > 10%	
	RoRo	kT/year			diff with previous > 10%	
	RoRos	number of vehicles			diff with previous > 10%	
	Storage capacity used	% of capacity			diff with previous > 10%	
	Transhipment capacity used	% of capacity			diff with previous > 10%	
	Passenger capacity used	% of capacity			diff with previous > 10%	
	Data valid for	year				
Regular Maintenance	Maintenance cost - Total	Euros per year		=[77]+[78]	diff with previous > 10%	
	Maintenance cost - Landside Infrastructure	Euros per year (Works on land infrastructure and facilities)			diff with previous > 10%	
	Maintenance cost - Riverside Infrastructure	Euros per year (Works conducted to ensure the right navigability in the IWW port)			diff with previous > 10%	
	Source of finance				≠ previous	
	Data valid for	year				
Upgrading	**Requiring upgrade to increase capacity**	**Passenger Capacity**			**≠ previous**	
		Freight Capacity			**≠ previous**	
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)			diff with previous > 10%	
	CO2 emissions				diff with previous > 10%	
	NOx emissions				diff with previous > 10%	
	SO2 emission evolution				diff with previous > 10%	
	Non-methane hydrocarbons				diff with previous > 10%	
	Particulate matter (ppm)				diff with previous > 10%	
	Climate change resilience	number of flooding incidents			diff with previous > 10%	
		number of closures due to adverse weather conditions			diff with previous > 10%	
		number of embankment failures			diff with previous > 10%	
	Data valid for	year				
Geospatial data	Location of the IWW port	Point geometry or x,y coordinates			≠ previous	
	Data valid for	year				

Seaports - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	**Name of responsible Company/Authority**		**Annually**			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	**Country Code**					
	TEN-T Category	**Core/ Comprehensive**			**≠ previous**	
	Node Name				**≠ previous**	
	Ownership Type	Government/ Private/ Mixed			≠ previous	
	Owner #1	Name			≠ previous	
	Ownership Percentage	%			≠ previous	
	Owner #x	Name			≠ previous	
	Ownership Percentage	%			≠ previous	
	Data valid from	**year**				
	Data valid to	**year**				
Infrastructure Data	**Activity**	**Freight/ Passenger/ Passenger and freight**			**≠ previous**	
	Condition	**Very Good** **Good** **Medium** **Poor** **Very Poor**			**1) higher than previous** **2) diff with previous >2**	
	Total area	m2 (All land- and water-area which belongs to the port)			≠ previous	
	Open storage	m2			≠ previous	
	Covered storage	m2			≠ previous	
	Cold storage	m2			≠ previous	
	Storage of dangerous goods	m2			≠ previous	
	Handling equipment	Gantry cranes, Mobile cranes, Fork lifters, Reach stackers, Luffing-slewing cranes, etc.			≠ previous	
	Quay Length	m			≠ previous	
	Berths	number			≠ previous	
	Maximum draught (natural or dredged)	m (maximum draught of ship which may enter the port)			≠ previous	
	Port terminals	ha			≠ previous	
	Combined terminals	ha			≠ previous	
	Passenger or Cruise terminals	m2			≠ previous	
	Passenger Capacity	passengers per year (port maximum passenger handling capacity - the combined product of ports facilities and			≠ previous	
	Container terminal	yes/ no			≠ previous	
	Freight Capacity	tons per year (port maximum cargo handling capacity - the combined product of ports facilities and associated			≠ previous	
	RoRo facilities	**yes/ no**			**≠ previous**	
	Transhipment facilities for intermodal transport	**yes/ no**			**≠ previous**	
	Rail Connection	**yes/no**			**≠ previous**	
		number of tracks connecting the port with the hinterland network			**≠ previous**	
	Road Connection	**yes/no**			**≠ previous**	
		number of lanes connecting the port with the hinterland network			**≠ previous**	
	Intelligent Transport Systems (ITS)	**yes/no**			**≠ previous**	
	Type of ITS	**list all ITS installed**			**≠ previous**	
	Vessel Traffic Management Information System (VTMIS)	**in operation (yes/no)**			**≠ previous**	
	Data valid from	**year**				
	Data valid to	**year**				
TEN-T Compliance	**Rail Connection**	**yes/no**			**≠ previous**	
	Road Connection	**yes/no**			**≠ previous**	
	IWW/ CEMT Connection	**yes/no (If physical constraints do not prevent such connection)**			**≠ previous**	
	Clean fuels availability	**yes/no (Only applicable for the Core Network)**			**≠ previous**	
	Terminal availability	**yes/no (At least one terminal open to all operators in a non-discriminatory way and shall apply transparent charges)**			**≠ previous**	
	Waste facilities	**yes/no (as per Directive 2000/59/EC)**			**≠ previous**	
	VTMIS Deployment	**yes/no (as per Directive 2002/59/EC as amended by Directive 2009/17/EC)**			**≠ previous**	
	Data valid from	**year**				
	Data valid to	**year**				

Seaports - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Operations Data	Port traffic	vessels per year			diff with previous > 10%	
	Passenger traffic	passengers per year			diff with previous > 10%	
	Freight traffic	tons per year			diff with previous > 10%	
	Dangerous Goods ton turnover	kT/year			diff with previous > 10%	
	Total turnover	kT/year			diff with previous > 10%	
	Tons loaded	kT/year			diff with previous > 10%	
	Tons unloaded	kT/year			diff with previous > 10%	
	Oil tons	kT/year			diff with previous > 10%	
	Liquid bulk tons	kT/year			diff with previous > 10%	
	Dry bulk tons	kT/year			diff with previous > 10%	
	General bulk tons	kT/year			diff with previous > 10%	
	TEU tons	kT/year			diff with previous > 10%	
	TEUs	TEU containers per year			diff with previous > 10%	
	RoRo	kT/year			diff with previous > 10%	
	RoRos	number of vehicles			diff with previous > 10%	
	Storage capacity used	% of capacity			diff with previous > 10%	
	Transhipment capacity used	% of capacity			diff with previous > 10%	
	Passenger capacity used	% of capacity			diff with previous > 10%	
	Data valid for	year				
Regular Maintenance	Maintenance cost - Total	Euros per year		=[79]+[80]	diff with previous > 10%	
	Maintenance cost - Landside Infrastructure	Euros per year (Works on land infrastructure and facilities)			diff with previous > 10%	
	Maintenance cost - Maritime Infrastructure	Euros per year (Works conducted to ensure the right navigability in the seaport)			diff with previous > 10%	
	Source of finance				≠ previous	
	Data valid for	year				
Upgrading	**Requiring upgrade to increase capacity**	**Passenger Capacity**			**≠ previous**	
		Freight Capacity			**≠ previous**	
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)			diff with previous > 10%	
	CO2 emissions				diff with previous > 10%	
	NOx emissions				diff with previous > 10%	
	SO2 emission evolution				diff with previous > 10%	
	Non-methane hydrocarbons				diff with previous > 10%	
	Particulate matter (ppm)				diff with previous > 10%	
	Climate change resilience	number of flooding incidents			diff with previous > 10%	
		number of closures due to adverse weather conditions			diff with previous > 10%	
	Data valid for	year				
Geospatial data	Location of the Seaport	Point geometry or x,y coordinates			≠ previous	
	Data valid for	year				

Airports - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	**Name of responsible Company/Authority**		Annually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	**Country Code**					
	TEN-T Category	**Core/ Comprehensive**			**≠ previous**	
	Node Name				**≠ previous**	
	Ownership Type	Government/ Private/ Mixed			≠ previous	
	Owner #1	Name			≠ previous	
	Ownership Percentage	%			≠ previous	
	Owner #x	Name			≠ previous	
	Ownership Percentage	%			≠ previous	
	Data valid from	**year**				
	Data valid to	**year**				

Airports - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Infrastructure Data	**Type**	**International/ Domestic**			**≠ previous**	
	Activity	**Freight/ Passenger/ Passenger and freight**			**≠ previous**	
	Condition	**Very Good** **Good** **Medium** **Poor** **Very Poor**			**1) higher than previous** **2) diff with previous >2**	
	Number of runaways	**number**			**≠ previous**	
	Number of passenger terminals	**number**			**≠ previous**	
	IATA Landing Slot Classification	Level 1 (Non-Coordinated Airport) Level 2 (Schedules Facilitated Airport) Level 3 (Coordinated Airport)			≠ previous	
	ICAO Airport Classification	Code A (Airplane Wingspan less than 15m; Outer Main Gear Wheel Span less than 4.5m) Code B (Airplane Wingspan from 15m up to less than 24m; Outer Main Gear Wheel Span from 4.5m up to less than 6m) Code C (Airplane Wingspan from 24m up to less than 36m; Outer Main Gear Wheel Span from 6m up to less than 9m) Code D (Airplane Wingspan from 36m up to less than 52m; Outer Main Gear Wheel Span from 9m up to less than			≠ previous	
	ILS Category	I II III A III B III C			≠ previous	
	Length of longest runway	meters			≠ previous	
	Passenger terminals area	m2			≠ previous	
	Apron area	m2			≠ previous	
	Declared Capacity	Declared number of aircraft movements that can be scheduled per hour at an airport			≠ previous	
	Apron Capacity	Number of airplanes on the apron at the same time			≠ previous	
	Runway Capacity	Flights per hour			≠ previous	
	Passenger Capacity	Passengers per year			≠ previous	
	Freight Capacity	tons per year			≠ previous	
	Rail Connection	**yes - integrated to long distance rail network** **yes - rail shuttle** **no - other public shuttle** **no - no public shuttle connection**			**≠ previous**	
	Intelligent Transport Systems (ITS)	**European air traffic management network (EATMN)**			**≠ previous**	
		1. Systems and procedures for airspace management.			**≠ previous**	
		2. Systems and procedures for air traffic flow management.			**≠ previous**	
		3. Systems and procedures for air traffic services, in particular flight data processing systems, surveillance data processing systems and human-machine interface systems.			**≠ previous**	
		4. Communications systems and procedures for ground-to-ground, air-to-ground and air-to- air communications.			**≠ previous**	
		5. Navigation systems and procedures.			**≠ previous**	
		6. Surveillance systems and procedures.			**≠ previous**	
		7. Systems and procedures for aeronautical information services.			**≠ previous**	
		8. Systems and procedures for the use of meteorological information.			**≠ previous**	
		9. Others			**≠ previous**	
	Data valid from	**year**				
	Data valid to	**year**				
TEN-T Compliance	**Rail Connection**	**yes/no**			**≠ previous**	
	Clean fuels availability	**yes/no (Only applicable for the Core Network Airports)**			**≠ previous**	
	Terminal availability	**yes/no (At least one terminal is open to all operators in a non-discriminatory way and applies transparent, relevant**				
	Data valid from	**year**				
	Data valid to	**year**				

Airports - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Operations Data	**Throughput**	**number of commercial aircraft movements per year**			**diff with previous > 10%**	
	Passenger traffic	**passengers per year**			**diff with previous > 10%**	
	Freight traffic	**tons of cargo per year**				
	Capacity used	**% of capacity**			**diff with previous > 10%**	
	Type of aircraft movements by type of operation	network carrier			≠ previous	
		low cost carrier			≠ previous	
		charter			≠ previous	
		cargo				
	Passenger transit	%			diff with previous > 10%	
	Arrivals	%			diff with previous > 10%	
	Data valid for	**year**				
Regular Maintenance	Maintenance cost - Total	Euros per year		=[67]+[68]+[69]	diff with previous > 10%	
	Maintenance cost - Passenger terminals	Euros per year			diff with previous > 10%	
	Maintenance cost - Freight terminals	Euros per year			diff with previous > 10%	
	Maintenance cost - Runways	Euros per year			diff with previous > 10%	
	Source of finance				≠ previous	
	Data valid for	year				
Upgrading	**Requiring upgrade to increase capacity**	**Terminal Building**			**≠ previous**	
	Requiring upgrade to increase runway length	**Runway Length**			**≠ previous**	
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)			diff with previous > 10%	
	CO2 emissions				diff with previous > 10%	
	NOx emissions				diff with previous > 10%	
	SO2 emission evolution				diff with previous > 10%	
	Non-methane hydrocarbons				diff with previous > 10%	
	Particulate matter (ppm)				diff with previous > 10%	
	Climate change resilience	number of flooding incidents			diff with previous > 10%	
		number of closures due to adverse weather conditions			diff with previous > 10%	
	Data valid for	year				
Geospatial data	Location of the Airport	Point geometry or x,y coordinates			≠ previous	
	Data valid for	year				

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	**Name of responsible Company/Authority**		**Annually**			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	**Country Code**					
	Border with	**country code**			**≠ previous**	
	Corridor/ Route				**≠ previous**	
	Border Crossing Name				**≠ previous**	
	TEN-T Category	**Core/ Comprehensive/ Not in TEN-T**			**≠ previous**	
	Green Lanes	**yes/no/planned**			**≠ previous**	
	One-stop procedure (Joint Border)	**yes/no/planned**			**≠ previous**	
		indicate type of joint BCP (for passengers/for goods/ collocated on the territory of one party/entry-entry joint controls, etc)			**≠ previous**	
Operations	**Type of Controls/ Inspections Performed**	**phytosanitary**			**≠ previous**	
		veterinary			**≠ previous**	
		radiological			**≠ previous**	
		other non-trade related controls (road charges collection, vehicles technical compliance, any other)			**≠ previous**	
	Data valid for	**year**				
Infrastructure	Number of lanes for trucks	entering			≠ previous	
		exiting			≠ previous	
	Number of lanes for buses	entering			≠ previous	
		exiting			≠ previous	
	Number of lanes for passenger cars	entering			≠ previous	
		exiting			≠ previous	
	Separate parking zones for trucks	yes/no			≠ previous	
	If yes, then truck parking capacity	vehicles			≠ previous	
	Truck queuing capacity	vehicles			≠ previous	
	State of play (customs/border police/other border agencies)	Booths (separate/ joint)			≠ previous	
		Data Systems (separate/ joint)			≠ previous	
		Physical inspection facilities (yes/ no)			≠ previous	
	Systematic Electronic Exchange of Data (SEED)	**yes/no/planned**			**≠ previous**	
	New Computerized Transport System (NCTS)	**yes/no/planned**			**≠ previous**	
	eQMS (Queue Management System)	**yes/no/planned**			**≠ previous**	
	Other Electronic Information System	**yes/no/planned**			**≠ previous**	
	Type of ITS	**list all ITS installed**			**≠ previous**	
	Data valid for	**year**				
Operations - Rail	Passenger Trains entering	number per 24 hours			diff with previous > 10%	
	Freight Trains entering	number per 24 hours			diff with previous > 10%	
	Dangerous Goods Trains/ Wagons entering	number per 24 hours			diff with previous > 10%	
	Average entry time passenger trains	minutes			diff with previous > 10%	
	Average entry time freight trains	minutes			diff with previous > 10%	
	Passenger Trains exiting	number per 24 hours			diff with previous > 10%	
	Freight Trains exiting	number per 24 hours			diff with previous > 10%	
	Dangerous Goods Trains/ Wagons exiting	number per 24 hours			diff with previous > 10%	
	Average exit time passenger trains	minutes			diff with previous > 10%	
	Average exit time freight trains	minutes			diff with previous > 10%	
	Data valid for	year				

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Operations - Road	Passenger Cars entering	number per 24 hours (or week/ month/ year)			diff with previous > 10%	
	Buses entering	number per 24 hours (or week/ month/ year)			diff with previous > 10%	
	Freight Vehicles entering	number per 24 hours (or week/ month/ year)			diff with previous > 10%	
	Dangerous Goods Vehicles entering	number per 24 hours (or week/ month/ year)			diff with previous > 10%	
	Passenger Cars entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)			diff with previous > 10%	
	Freight Vehicles entering - Average waiting/queuing time	**minutes (before the effective start of the control procedure)**			**diff with previous > 10%**	
	Buses entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)			diff with previous > 10%	
	Passenger Cars entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)			diff with previous > 10%	
	Freight Vehicles entering - Average duration of control procedures	**minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)**			**diff with previous > 10%**	
	Buses entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)			diff with previous > 10%	
	Freight vehicles cleared by customs at the BCP	% of total freight vehicle volume			diff with previous > 10%	
	Freight vehicles entering for Import	% of total freight vehicle volume			diff with previous > 10%	
	Freight vehicles entering Transit	% of total freight vehicle volume			diff with previous > 10%	
	Freight vehicles entering Empty	% of total freight vehicle volume			diff with previous > 10%	
	Passenger Cars exiting	number per 24 hours (or week/ month/ year)			diff with previous > 10%	
	Buses exiting	number per 24 hours (or week/ month/ year)			diff with previous > 10%	
	Freight Vehicles exiting	number per 24 hours (or week/ month/ year)			diff with previous > 10%	
	Dangerous Goods Vehicles Exiting	number per 24 hours (or week/ month/ year)			diff with previous > 10%	
	Passenger Cars exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)			diff with previous > 10%	
	Freight Vehicles exiting - Average waiting/queuing time	**minutes (before the effective start of the control procedure)**			**diff with previous > 10%**	
	Buses exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)			diff with previous > 10%	
	Passenger Cars exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)			diff with previous > 10%	
	Freight Vehicles exiting - Average duration of control procedures	**minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)**			**diff with previous > 10%**	
	Buses exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)			diff with previous > 10%	
	Data valid for	**year**				
Upgrading	**Requiring upgrade to increase capacity**	**Terminal Building**			**≠ previous**	
	Requiring upgrade to IT Systems/ ITS	**Adoption of New Computerized Transport System (NCTS)**			**≠ previous**	
	Data valid for	**year**				
Geospatial data	Location of the border crossings	Point geometry or x,y coordinates			≠ previous	
	Data valid for	year				

TRANSPORT COMMUNITY

Roads - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation If Info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Semiannually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Corridor/ Route				≠ previous	
	International Route ID				≠ previous	
	National Route ID				≠ previous	
	Start Node Name				≠ previous	
	End Node Name				≠ previous	
	Start km	Direction A			≠ previous	
		Direction B			≠ previous	
	End km	Direction A			≠ previous	
		Direction B			≠ previous	
	Targeted TEN-T section(s) (current network layout)	The TEN-T Network section(s) the project is targeting				
	New TEN-T section(s) (after project's implementation)	The TEN-T network layout after the implementation of the project (new sections, if case)				
Description of the Project	Project name	Text			≠ previous	
	Type of foreseen intervention	New infrastructure Reconstruction/rehabilitation Maintenance Horizontal/policy measure			≠ previous	
	Length (if linear)	Km/NA			≠ previous	
	Lanes	Direction A			≠ previous	
		Direction B			≠ previous	
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			≠ previous	
Eligibility for TEN-T Project	Motorway/expressway	yes/no (new construction)			≠ previous	
	Other high-quality roads	yes/no (new construction)			≠ previous	
	Road rehabilitation/reconstruction	yes/ no (targeting capacity increase or road surface quality upgrade from very poor/poor/medium condition (IRI>2,84 to good/very good conditions))			≠ previous	
	Alternative fuels	yes/no			≠ previous	
	ITS compliance	yes/no			≠ previous	
	Tolling interoperability	yes/no			≠ previous	
	Safety compliance	yes/no			≠ previous	
	Road tunnels compliance	yes/no			≠ previous	

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Roads - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation If Info N/A	Data Validation Request Criteria	Data Validator
TEN-T Compliance	TEN-T Requirements Compliant	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Alternative Fuels Availability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	ITS Compliance	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Tolling Interoperability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Safety Compliance	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Road Tunnels Compliance (length >500m)	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
Project Status	Implemented	Project completed and put in operation			≠ previous	
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			≠ previous	
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			≠ previous	
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			≠ previous	
	Project status description	Text				
IMPLEMENTED PROJECTS						
Project Timeline	Initial Project Completion Date	On tender issue			≠ previous	
	Actual Project Completion Date				≠ previous	
Project Funding Sources	National Budget	Euros			≠ previous	
	WB	Euros			≠ previous	
	EBRD	Euros			≠ previous	
	EIB	Euros			≠ previous	
	Other IFI	Specify			≠ previous	
		Euros			≠ previous	
	Concessions	Specify			≠ previous	
		Euros			≠ previous	
	EU Fund	Specify			≠ previous	
		Euros			≠ previous	
	Other funding source	Specify			≠ previous	
		Euros			≠ previous	
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			≠ previous	
	Prepared by				≠ previous	
	Supervised by				≠ previous	

TRANSPORT COMMUNITY

Roads - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Performance Indicators	Construction period	Forecasted (months)			≠ previous	
		Actual (months)			≠ previous	
	CAPEX	Forecasted (Euros)			≠ previous	
		Actual (Euros)			≠ previous	
	OPEX	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Maintenance cost	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Interest During Construction	%			≠ previous	
	EBITDA (last year)	Euros			≠ previous	
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Traffic	Passenger cars - forecasted			≠ previous	
		Passenger cars - actual			≠ previous	
		Busses - forecasted			≠ previous	
		Busses - actual			≠ previous	
		Trucks - forecasted			≠ previous	
		Trucks - actual			≠ previous	
LIVE PROJECTS						
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			≠ previous	
		Actual			≠ previous	
	Design Completion Date (month/ year)	Forecasted (on tender issue)			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			≠ previous	
		Actual			≠ previous	
	Project Completion Date (month/ year)	**Forecasted (on tender issue)**			**≠ previous**	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			**≠ previous**	
Project Funding Sources	**National Budget**	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	WB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EBRD	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EIB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other IFI	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Concessions	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EU Fund	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other funding source	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)				

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Roads - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Technical Project Status	**Pre-Feasibility Study**	**yes/no**			**≠ previous**	
	Feasibility Study	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Concept Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Preliminary Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Detail Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Environmental Impact Assessment	**yes/no**			**≠ previous**	
Project Documentation	Feasibility Study	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Concept Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Preliminary Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Detail Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Environmental Impact Assessment	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
Social Indicators	**Annual Traffic Demand Growth**	**%**			**≠ previous**	
	Modal transfer	**% (if applicable)**			**≠ previous**	
	Annual Accident Rate Reduction	**% (if applicable)**			**≠ previous**	
Economic Indicators	**EIRR (Economic Internal Rate of Return)**	**%**			**≠ previous**	
	NPV (Net Present Value)	**Euros**			**≠ previous**	
	SDR (Social Discount Rate)	**%**			**≠ previous**	
	Project Planning & Design Cost	**Euros**			**≠ previous**	
	Project Construction Cost	**Euros**			**≠ previous**	
	Total Project Cost	**Euros**			**≠ previous**	
Financial Indicators	**FIRR (Financial Internal Rate of Return)**	**%**			**≠ previous**	
	FNPV (Financial Net Present Value)	**Euros**			**≠ previous**	
	FDR (Financial Discount Rate)	**%**			**≠ previous**	
	WACC (Weighted Average Cost of Capital)	**%**			**≠ previous**	
	First year of profit	**year**			**≠ previous**	
	DSCR (Debt Service Coverage Ratio)	**%**			**≠ previous**	
Environmental Indicators	**CO2 emissions**	**+/- %**			**≠ previous**	
	NOx emissions	**+/- %**			**≠ previous**	
	SO2 emission evolution	**+/- %**			**≠ previous**	
	Non-methane hydrocarbons	**+/- %**			**≠ previous**	
	Particulate matter (ppm)	**+/- %**			**≠ previous**	
	Noise levels along the section	**+/- %**			**≠ previous**	
	Climate Change Resilience	**Provide description of the project's effect to the climate change resilience of the network**			**≠ previous**	
	Protected Natural Areas Affected	**km2**			**≠ previous**	
Geospatial data	Location of Road	Line geometry			≠ previous	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of parking areas	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of fuel stations	Point geometry or x,y coordinates			≠ previous	

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Railways - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Semiannually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Corridor/ Route	Before project implementation			≠ previous	
		After project implementation			≠ previous	
	International Route ID	Before project implementation			≠ previous	
		After project implementation			≠ previous	
	National Route ID	Before project implementation			≠ previous	
		After project implementation			≠ previous	
	Start Node Name	Before project implementation			≠ previous	
		After project implementation			≠ previous	
	End Node Name	Before project implementation			≠ previous	
		After project implementation			≠ previous	
	Start km	Direction A - Before project implementation			≠ previous	
		Direction A - After project implementation			≠ previous	
		Direction B - Before project implementation			≠ previous	
		Direction B - After project implementation			≠ previous	
	End km	Direction A - Before project implementation			≠ previous	
		Direction A - After project implementation			≠ previous	
		Direction B - Before project implementation			≠ previous	
		Direction B - After project implementation			≠ previous	
Description of the Project	Project name	Text			≠ previous	
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			≠ previous	
	Length (if linear)	Km/NA			≠ previous	
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			≠ previous	
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			≠ previous	
Eligibility for TEN-T Project	Electrification	yes/no			≠ previous	
	Line speed 100 km/h (freight)	yes/no			≠ previous	
	Axle load 22.5 t	yes/no			≠ previous	
	Track gauge	yes/no			≠ previous	
	Train length 740 m	yes/no			≠ previous	
	ERTMS Deployment (ETCS)	yes/no			≠ previous	
	ERTMS Deployment (GSM-R)	yes/no			≠ previous	

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Railways - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
TEN-T Compliance	Electrification	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Line speed 100 km/h (freight)	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Axle load 22,5 t	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Track gauge	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Train length 740 m	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	ERTMS Deployment (ETCS)	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	ERTMS Deployment (GSM-R)	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
Project Status	Implemented	Project completed and put in operation			≠ previous	
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			≠ previous	
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			≠ previous	
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			≠ previous	
IMPLEMENTED PROJECTS						
Project Timeline	Initial Project Completion Date	On tender issue			≠ previous	
	Actual Project Completion Date				≠ previous	
Project Funding Sources	National Budget	Euros			≠ previous	
	WB	Euros			≠ previous	
	EBRD	Euros			≠ previous	
	EIB	Euros			≠ previous	
	Other IFI	Specify			≠ previous	
		Euros			≠ previous	
	Concessions	Specify			≠ previous	
		Euros			≠ previous	
	EU Fund	Specify			≠ previous	
		Euros			≠ previous	
	Other funding source	Specify			≠ previous	
		Euros			≠ previous	
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			≠ previous	
	Prepared by				≠ previous	
	Supervised by				≠ previous	

TRANSPORT COMMUNITY

Railways - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if Info N/A	Data Validation Request Criteria	Data Validator
Performance Indicators	Construction period	Forecasted (months)			≠ previous	
		Actual (months)			≠ previous	
	CAPEX	Forecasted (Euros)			≠ previous	
		Actual (Euros)			≠ previous	
	OPEX	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Maintenance cost	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Interest During Construction	%			≠ previous	
	EBITDA (last year)	Euros			≠ previous	
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Traffic	Train traffic - forecasted			≠ previous	
		Train traffic - actual			≠ previous	
		Passenger traffic - forecasted			≠ previous	
		Passenger traffic - actual			≠ previous	
		Freight (tn) - forecasted			≠ previous	
		Freight (tn) - actual			≠ previous	
LIVE PROJECTS						
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible			≠ previous	
		Actual			≠ previous	
	Design Completion Date (month/ year)	Forecasted (on tender issue)			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible			≠ previous	
		Actual			≠ previous	
	Project Completion Date (month/ year)	**Forecasted (on tender issue)**			**≠ previous**	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible			**≠ previous**	
Project Funding Sources	**National Budget**	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	WB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EBRD	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EIB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other IFI	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Concessions	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EU Fund	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other funding source	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)				

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Railways - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if Info N/A	Data Validation Request Criteria	Data Validator
Technical Project Status	**Pre-Feasibility Study**	**yes/no**			**≠ previous**	
	Feasibility Study	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Concept Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Preliminary Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Detail Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Environmental Impact Assessment	**yes/no**			**≠ previous**	
Project Documentation	Feasibility Study	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Concept Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Preliminary Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Detail Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Environmental Impact Assessment	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
Social Indicators	**Annual Traffic Demand Growth**	**%**			**≠ previous**	
	Modal transfer	**% (if applicable)**			**≠ previous**	
	Annual Accident Rate Reduction	**% (if applicable)**			**≠ previous**	
Economic Indicators	**EIRR (Economic Internal Rate of Return)**	**%**			**≠ previous**	
	NPV (Net Present Value)	**Euros**			**≠ previous**	
	SDR (Social Discount Rate)	**%**			**≠ previous**	
	Project Planning & Design Cost	**Euros**			**≠ previous**	
	Project Construction Cost	**Euros**			**≠ previous**	
	Total Project Cost	**Euros**			**≠ previous**	
Financial Indicators	**FIRR (Financial Internal Rate of Return)**	**%**			**≠ previous**	
	FNPV (Financial Net Present Value)	**Euros**			**≠ previous**	
	FDR (Financial Discount Rate)	**%**			**≠ previous**	
	WACC (Weighted Average Cost of Capital)	**%**			**≠ previous**	
	First year of profit	**year**			**≠ previous**	
	DSCR (Debt Service Coverage Ratio)	**%**			**≠ previous**	
Environmental Indicators	**CO2 emissions**	**+/- %**			**≠ previous**	
	NOx emissions	**+/- %**			**≠ previous**	
	SO2 emission evolution	**+/- %**			**≠ previous**	
	Non-methane hydrocarbons	**+/- %**			**≠ previous**	
	Particulate matter (ppm)	**+/- %**			**≠ previous**	
	Noise levels along the section	**+/- %**			**≠ previous**	
	Climate Change Resilience	**Provide description of the project's effect to the climate change resilience of the network**			**≠ previous**	
	Protected Natural Areas Affected	**km2**			**≠ previous**	
Geospatial data	Location of Railway Line	Line geometry			≠ previous	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of Stations	Line geometry or Point geometry or x,y coordinates			≠ previous	
	Location of level crossings	Point geometry or x,y coordinates			≠ previous	

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Freight Terminal - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Semiannually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code				≠ previous	
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Node Name				≠ previous	
Description of the Project	Project name	Text			≠ previous	
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			≠ previous	
	Length (if linear)	Km/NA			≠ previous	
	Clean fuel availability	Project related to the provision of clean fuel (yes/no)			≠ previous	
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			≠ previous	
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			≠ previous	
Eligibility for TEN-T Project	Inter-modality	yes/no (Terminals provide the possibility to tranship all types of standard intermodal loading units (containers, swap			≠ previous	
	740m train length	yes/no (Fulfilment of this criterion is restricted to recently constructed terminals)			≠ previous	
	Electrified access	yes/no (Enable direct train departure to the (Corridor) electrified line. At least one in/outbound track line should provide electrifications for this criterion to be considered fulfilled)			≠ previous	
	Open availability	yes/no (Free non-discriminatory access and transparent charges)			≠ previous	
TEN-T Compliance	Inter-modality	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	740m train length	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Electrified access	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Open availability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
Project Status	Implemented	Project completed and put in operation			≠ previous	
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			≠ previous	
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			≠ previous	
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			≠ previous	
IMPLEMENTED PROJECTS						
Project Timeline	Initial Project Completion Date	On tender issue			≠ previous	
	Actual Project Completion Date				≠ previous	
Project Funding Sources	National Budget	Euros			≠ previous	
	WB	Euros			≠ previous	
	EBRD	Euros			≠ previous	
	EIB	Euros			≠ previous	
	Other IFI	Specify			≠ previous	
		Euros			≠ previous	
	Concessions	Specify			≠ previous	
		Euros			≠ previous	
	EU Fund	Specify			≠ previous	
		Euros			≠ previous	
	Other funding source	Specify			≠ previous	

TRANSPORT COMMUNITY

Freight Terminal - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
	Other funding source	Euros			≠ previous	
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			≠ previous	
	Prepared by				≠ previous	
	Supervised by				≠ previous	
Performance Indicators	Construction period	Forecasted (months)			≠ previous	
		Actual (months)			≠ previous	
	CAPEX	Forecasted (Euros)			≠ previous	
		Actual (Euros)			≠ previous	
	OPEX	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Maintenance cost	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Interest During Construction	%			≠ previous	
	EBITDA (last year)	Euros			≠ previous	
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Traffic	Terminal traffic - forecasted			≠ previous	
		Terminal traffic - actual			≠ previous	
		Freight (tn) - forecasted			≠ previous	
		Freight (tn) - actual			≠ previous	
LIVE PROJECTS						
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
		Actual			≠ previous	
	Design Completion Date (month/ year)	Forecasted (on tender issue)			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
		Actual			≠ previous	
	Project Completion Date (month/ year)	**Forecasted (on tender issue)**			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
Project Funding Sources	**National Budget**	**Euros**			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	WB	**Euros**			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	EBRD	**Euros**			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	EIB	**Euros**			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	Other IFI	**Specify**			≠ previous	
		Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	Concessions	**Specify**			≠ previous	
		Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	EU Fund	**Specify**			≠ previous	
		Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	Other funding source	**Specify**			≠ previous	
		Euros			≠ previous	
		allocated/ agreement signed (yes/no)				

Freight Terminal - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Technical Project Status	Pre-Feasibility Study	yes/no			≠ previous	
	Feasibility Study	yes/no			≠ previous OR [yes] while previous is [no]	
	Concept Design	yes/no			≠ previous OR [yes] while previous is [no]	
	Preliminary Design	yes/no			≠ previous OR [yes] while previous is [no]	
	Detail Design	yes/no			≠ previous OR [yes] while previous is [no]	
	Environmental Impact Assessment	yes/no			≠ previous	
Project Documentation	Feasibility Study	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Concept Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Preliminary Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Detail Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Environmental Impact Assessment	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
Social Indicators	Annual Traffic Demand Growth	%			≠ previous	
	Modal transfer	% (if applicable)			≠ previous	
	Annual Accident Rate Reduction	% (if applicable)			≠ previous	
Economic Indicators	EIRR (Economic Internal Rate of Return)	%			≠ previous	
	NPV (Net Present Value)	Euros			≠ previous	
	SDR (Social Discount Rate)	%			≠ previous	
	Project Planning & Design Cost	Euros			≠ previous	
	Project Construction Cost	Euros			≠ previous	
	Total Project Cost	Euros			≠ previous	
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			≠ previous	
	FNPV (Financial Net Present Value)	Euros			≠ previous	
	FDR (Financial Discount Rate)	%			≠ previous	
	WACC (Weighted Average Cost of Capital)	%			≠ previous	
	First year of profit	year			≠ previous	
	DSCR (Debt Service Coverage Ratio)	%			≠ previous	
Environmental Indicators	CO2 emissions	+/- %			≠ previous	
	NOx emissions	+/- %			≠ previous	
	O2 emission evolution	+/- %			≠ previous	
	Non-methane hydrocarbons	+/- %			≠ previous	
	Particulate matter (ppm)	+/- %			≠ previous	
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience			≠ previous	
	Protected Natural Areas Affected	km2			≠ previous	
Geospatial data	Location of the Freight Terminals	Point geometry or x,y coordinates			≠ previous	

Inland Waterways - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organization Data	Name of responsible Company/Authority		Semiannually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	River				≠ previous	
	International Commission	yes/no (Involved in International Commission/ Agreement)			≠ previous	
	Start Node Name	Before project implementation			≠ previous	
		After project implementation			≠ previous	
	End Node Name	Before project implementation			≠ previous	
		After project implementation			≠ previous	
Description of the Project	Project name	Text			≠ previous	
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			≠ previous	
	Length (if linear)	Km/NA			≠ previous	
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			≠ previous	
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			≠ previous	
Eligibility for TEN-T Project	CEMT Class IV Compliance	yes/no (As per the new classification of IWW established by the European Conference of Ministers of Transport			≠ previous	
	Draught	yes/no (At least 2.5m)			≠ previous	
	Bridge Height	yes/no (At least 5.25m)			≠ previous	
	RIS Deployment	yes/no (as per Directive 2005/44/EC)			≠ previous	
TEN-T Compliance	CEMT Class IV Compliance	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Draught	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Bridge Height	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	RIS Deployment	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
Project Status	Implemented	Project completed and put in operation			≠ previous	
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			≠ previous	
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			≠ previous	
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			≠ previous	

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Inland Waterways - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
IMPLEMENTED PROJECTS						
Project Timeline	Initial Project Completion Date	On tender issue			≠ previous	
	Actual Project Completion Date				≠ previous	
Project Funding Sources	National Budget	Euros			≠ previous	
	WB	Euros			≠ previous	
	EBRD	Euros			≠ previous	
	EIB	Euros			≠ previous	
	Other IFI	Specify			≠ previous	
		Euros			≠ previous	
	Concessions	Specify			≠ previous	
		Euros			≠ previous	
	EU Fund	Specify			≠ previous	
		Euros			≠ previous	
	Other funding source	Specify			≠ previous	
		Euros			≠ previous	
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			≠ previous	
	Prepared by				≠ previous	
	Supervised by				≠ previous	
Performance Indicators	Construction period	Forecasted (months)			≠ previous	
		Actual (months)			≠ previous	
	CAPEX	Forecasted (Euros)			≠ previous	
		Actual (Euros)			≠ previous	
	OPEX	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Maintenance cost	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Interest During Construction	%			≠ previous	
	EBITDA (last year)	Euros			≠ previous	
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Traffic	Traffic - forecasted			≠ previous	
		Traffic - actual			≠ previous	
		Passenger traffic - forecasted			≠ previous	
		Passenger traffic - actual			≠ previous	
		Freight (tn) - forecasted			≠ previous	
		Freight (tn) - actual			≠ previous	
LIVE PROJECTS						
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
		Actual			≠ previous	
	Design Completion Date (month/ year)	Forecasted (on tender issue)			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
		Actual			≠ previous	
	Project Completion Date (month/ year)	**Forecasted (on tender issue)**			**≠ previous**	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			**≠ previous**	

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Inland Waterways - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Project Funding Sources	**National Budget**	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	WB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EBRD	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EIB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other IFI	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Concessions	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EU Fund	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other funding source	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)				
Technical Project Status	**Pre-Feasibility Study**	**yes/no**			**≠ previous**	
	Feasibility Study	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Concept Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Preliminary Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Detail Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Environmental Impact Assessment	**yes/no**			**≠ previous**	
Project Documentation	Feasibility Study	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Concept Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Preliminary Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Detail Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Environmental Impact Assessment	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
Social Indicators	**Annual Traffic Demand Growth**	**%**			**≠ previous**	
	Modal transfer	**% (if applicable)**			**≠ previous**	
	Annual Accident Rate Reduction	**% (if applicable)**			**≠ previous**	
Economic Indicators	**EIRR (Economic Internal Rate of Return)**	**%**			**≠ previous**	
	NPV (Net Present Value)	**Euros**			**≠ previous**	
	SDR (Social Discount Rate)	**%**			**≠ previous**	
	Project Planning & Design Cost	**Euros**			**≠ previous**	
	Project Construction Cost	**Euros**			**≠ previous**	
	Total Project Cost	**Euros**			**≠ previous**	

Inland Waterways - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if Info N/A	Data Validation Request Criteria	Data Validator
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			≠ previous	
	FNPV (Financial Net Present Value)	Euros			≠ previous	
	FDR (Financial Discount Rate)	%			≠ previous	
	WACC (Weighted Average Cost of Capital)	%			≠ previous	
	First year of profit	year			≠ previous	
	DSCR (Debt Service Coverage Ratio)	%			≠ previous	
Environmental Indicators	CO2 emissions	+/- %			≠ previous	
	NOx emissions	+/- %			≠ previous	
	O2 emission evolution	+/- %			≠ previous	
	Non-methane hydrocarbons	+/- %			≠ previous	
	Particulate matter (ppm)	+/- %			≠ previous	
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience			≠ previous	
	Protected Natural Areas Affected	km2			≠ previous	
Geospatial data	Location of the IWW	Line geometry			≠ previous	
	Single locks	Point geometry or x,y coordinates			≠ previous	
	Double locks	Point geometry or x,y coordinates			≠ previous	
	Ports, transhipment or storage facilities	Point geometry or x,y coordinates			≠ previous	

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if Info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Semiannually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Node Name				≠ previous	
Description of the Project	Project name	Text			≠ previous	
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			≠ previous	
	Length (if linear)	Km/NA			≠ previous	
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			≠ previous	
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
Eligibility for TEN-T Project	Rail connection	yes/no			≠ previous	
	CEMT connection	yes/no			≠ previous	
	Clean fuels availability	yes/no (Only applicable for the Core Network)			≠ previous	
	Terminal Availability	yes/no (At least one terminal open to all operators in a non-discriminatory way and shall apply transparent			≠ previous	
	RIS Deployment	yes/no (as per Directive 2005/44/EC)			≠ previous	
TEN-T Compliance	Rail connection	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	CEMT connection	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Clean fuels availability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Terminal Availability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	RIS Deployment	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
Project Status	Implemented	Project completed and put in operation			≠ previous	
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			≠ previous	
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			≠ previous	
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			≠ previous	

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Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if Info N/A	Data Validation Request Criteria	Data Validator
IMPLEMENTED PROJECTS						
Project Timeline	Initial Project Completion Date	On tender issue			≠ previous	
	Actual Project Completion Date				≠ previous	
Project Funding Sources	National Budget	Euros			≠ previous	
	WB	Euros			≠ previous	
	EBRD	Euros			≠ previous	
	EIB	Euros			≠ previous	
	Other IFI	Specify			≠ previous	
		Euros			≠ previous	
	Concessions	Specify			≠ previous	
		Euros			≠ previous	
	EU Fund	Specify			≠ previous	
		Euros			≠ previous	
	Other funding source	Specify			≠ previous	
		Euros			≠ previous	
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			≠ previous	
	Prepared by				≠ previous	
	Supervised by				≠ previous	
Performance Indicators	Construction period	Forecasted (months)			≠ previous	
		Actual (months)			≠ previous	
	CAPEX	Forecasted (Euros)			≠ previous	
		Actual (Euros)			≠ previous	
	OPEX	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Maintenance cost	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Interest During Construction	%			≠ previous	
	EBITDA (last year)	Euros			≠ previous	
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Traffic	Port traffic - forecasted			≠ previous	
		Port traffic - actual			≠ previous	
		Passenger traffic - forecasted			≠ previous	
		Passenger traffic - actual			≠ previous	
		Freight (tn) - forecasted			≠ previous	
		Freight (tn) - actual			≠ previous	
LIVE PROJECTS						
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			≠ previous	
		Actual			≠ previous	
	Design Completion Date (month/ year)	Forecasted (on tender issue)			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			≠ previous	
		Actual			≠ previous	
	Project Completion Date (month/ year)	**Forecasted (on tender issue)**			**≠ previous**	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			**≠ previous**	

TRANSPORT COMMUNITY

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if Info N/A	Data Validation Request Criteria	Data Validator
Project Funding Sources	**National Budget**	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	WB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EBRD	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EIB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other IFI	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Concessions	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EU Fund	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other funding source	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)				
Technical Project Status	**Pre-Feasibility Study**	**yes/no**			**≠ previous**	
	Feasibility Study	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Concept Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Preliminary Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Detail Design	**yes/no**			**≠ previous OR [yes] while previous is [no]**	
	Environmental Impact Assessment	**yes/no**			**≠ previous**	
Project Documentation	Feasibility Study	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Concept Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Preliminary Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Detail Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Environmental Impact Assessment	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
Social Indicators	**Annual Traffic Demand Growth**	**%**			**≠ previous**	
	Modal transfer	**% (if applicable)**			**≠ previous**	
	Annual Accident Rate Reduction	**% (if applicable)**			**≠ previous**	
Economic Indicators	**EIRR (Economic Internal Rate of Return)**	**%**			**≠ previous**	
	NPV (Net Present Value)	**Euros**			**≠ previous**	
	SDR (Social Discount Rate)	**%**			**≠ previous**	
	Project Planning & Design Cost	**Euros**			**≠ previous**	
	Project Construction Cost	**Euros**			**≠ previous**	
	Total Project Cost	**Euros**			**≠ previous**	

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			≠ previous	
	FNPV (Financial Net Present Value)	Euros			≠ previous	
	FDR (Financial Discount Rate)	%			≠ previous	
	WACC (Weighted Average Cost of Capital)	%			≠ previous	
	First year of profit	year			≠ previous	
	DSCR (Debt Service Coverage Ratio)	%			≠ previous	
Environmental Indicators	CO2 emissions	+/- %			≠ previous	
	NOx emissions	+/- %			≠ previous	
	O2 emission evolution	+/- %			≠ previous	
	Non-methane hydrocarbons	+/- %			≠ previous	
	Particulate matter (ppm)	+/- %			≠ previous	
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience			≠ previous	
	Protected Natural Areas Affected	km2			≠ previous	
Geospatial data	Location of the IWW Port	Point geometry or x,y coordinates			≠ previous	

Seaports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Semiannually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Node Name				≠ previous	
Description of the Project	Project name	Text			≠ previous	
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			≠ previous	
	Length (if linear)	Km/NA			≠ previous	
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			≠ previous	
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			≠ previous	
Eligibility for TEN-T Project	Rail Connection	yes/no			≠ previous	
	Road Connection	yes/no			≠ previous	
	IWW/ CEMT Connection	yes/no (If physical constraints do not prevent such connection)			≠ previous	
	Clean fuels availability	yes/no (Only applicable for the Core Network)			≠ previous	
	Terminal availability	yes/no (At least one terminal open to all operators in a non-discriminatory way and shall apply transparent charges.)			≠ previous	
	Waste facilities	yes/no (as per Directive 2000/59/EC)			≠ previous	
	VTMIS Deployment	yes/no (as per Directive 2002/59/EC as amended by Directive 2009/17/EC)			≠ previous	
TEN-T Compliance	Rail connection	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Road Connection	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	IWW/ CEMT Connection	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Clean fuels availability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Terminal Availability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Waste facilities	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	VTMIS Deployment	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
Project Status	Implemented	Project completed and put in operation			≠ previous	
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			≠ previous	
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			≠ previous	
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			≠ previous	

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Seaports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation If Info N/A	Data Validation Request Criteria	Data Validator
IMPLEMENTED PROJECTS						
Project Timeline	Initial Project Completion Date	On tender issue			≠ previous	
	Actual Project Completion Date				≠ previous	
Project Funding Sources	National Budget	Euros			≠ previous	
	WB	Euros			≠ previous	
	EBRD	Euros			≠ previous	
	EIB	Euros			≠ previous	
	Other IFI	Specify			≠ previous	
		Euros			≠ previous	
	Concessions	Specify			≠ previous	
		Euros			≠ previous	
	EU Fund	Specify			≠ previous	
		Euros			≠ previous	
	Other funding source	Specify			≠ previous	
		Euros			≠ previous	
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			≠ previous	
	Prepared by				≠ previous	
	Supervised by				≠ previous	
Performance Indicators	Construction period	Forecasted (months)			≠ previous	
		Actual (months)			≠ previous	
	CAPEX	Forecasted (Euros)			≠ previous	
		Actual (Euros)			≠ previous	
	OPEX	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Maintenance cost	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Interest During Construction	%			≠ previous	
	EBITDA (last year)	Euros			≠ previous	
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Traffic	Port traffic - forecasted			≠ previous	
		Port traffic - actual			≠ previous	
		Passenger traffic - forecasted			≠ previous	
		Passenger traffic - actual			≠ previous	
		Freight (tn) - forecasted			≠ previous	
		Freight (tn) - actual			≠ previous	
LIVE PROJECTS						
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
		Actual			≠ previous	
	Design Completion Date (month/ year)	Forecasted (on tender issue)			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
		Actual			≠ previous	
	Project Completion Date (month/ year)	**Forecasted (on tender issue)**			**≠ previous**	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to			**≠ previous**	

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Seaports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation If Info N/A	Data Validation Request Criteria	Data Validator
Project Funding Sources	**National Budget**	Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	WB	Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	EBRD	Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	EIB	Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	Other IFI	Specify			≠ previous	
		Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	Concessions	Specify			≠ previous	
		Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	EU Fund	Specify			≠ previous	
		Euros			≠ previous	
		allocated/ agreement signed (yes/no)			≠ previous	
	Other funding source	Specify			≠ previous	
		Euros			≠ previous	
		allocated/ agreement signed (yes/no)				
Technical Project Status	**Pre-Feasibility Study**	yes/no			≠ previous	
	Feasibility Study	yes/no			≠ previous OR [yes] while previous is [no]	
	Concept Design	yes/no			≠ previous OR [yes] while previous is [no]	
	Preliminary Design	yes/no			≠ previous OR [yes] while previous is [no]	
	Detail Design	yes/no			≠ previous OR [yes] while previous is [no]	
	Environmental Impact Assessment	yes/no			≠ previous	
Project Documentation	Feasibility Study	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Concept Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Preliminary Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Detail Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Environmental Impact Assessment	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
Social Indicators	**Annual Traffic Demand Growth**	%			≠ previous	
	Modal transfer	% (if applicable)			≠ previous	
	Annual Accident Rate Reduction	% (if applicable)			≠ previous	
Economic Indicators	**EIRR (Economic Internal Rate of Return)**	%			≠ previous	
	NPV (Net Present Value)	Euros			≠ previous	
	SDR (Social Discount Rate)	%			≠ previous	
	Project Planning & Design Cost	Euros			≠ previous	
	Project Construction Cost	Euros			≠ previous	
	Total Project Cost	Euros			≠ previous	

Seaports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			≠ previous	
	FNPV (Financial Net Present Value)	Euros			≠ previous	
	FDR (Financial Discount Rate)	%			≠ previous	
	WACC (Weighted Average Cost of Capital)	%			≠ previous	
	First year of profit	year			≠ previous	
	DSCR (Debt Service Coverage Ratio)	%			≠ previous	
Environmental Indicators	CO2 emissions	+/- %			≠ previous	
	NOx emissions	+/- %			≠ previous	
	O2 emission evolution	+/- %			≠ previous	
	Non-methane hydrocarbons	+/- %			≠ previous	
	Particulate matter (ppm)	+/- %			≠ previous	
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience			≠ previous	
	Protected Natural Areas Affected	km2			≠ previous	
Geospatial data	Location of the Seaport	Point geometry or x,y coordinates			≠ previous	

Airports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority					
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
Localisation	Country Code					
	TEN-T Category	Core/ Comprehensive			≠ previous	
	Node Name				≠ previous	
Description of the Project	Project name	Text			≠ previous	
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			≠ previous	
	Length (if linear)	Km/NA			≠ previous	
	Capacity	Project increases capacity of the airport (yes/no)			≠ previous	
		If yes, Capacity before project implementation			≠ previous OR > after	
		If yes, Capacity after project implementation			≠ previous OR < before	
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			≠ previous	
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to			≠ previous	
Eligibility for TEN-T Project	Rail Connection	yes/no			≠ previous	
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)			≠ previous	
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-discriminatory way and applies transparent,			≠ previous	
TEN-T Compliance	Rail connection	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Clean fuels availability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
	Terminal Availability	Before project implementation (yes/no)			≠ previous	
		After project implementation (yes/no)			≠ previous OR [no] while before is [yes]	
Project Status	Implemented	Project completed and put in operation			≠ previous	
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			≠ previous	
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			≠ previous	
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			≠ previous	
IMPLEMENTED PROJECTS						
Project Timeline	Initial Project Completion Date	On tender issue			≠ previous	
	Actual Project Completion Date				≠ previous	
Project Funding Sources	National Budget	Euros			≠ previous	
	WB	Euros			≠ previous	
	EBRD	Euros			≠ previous	
	EIB	Euros			≠ previous	
	Other IFI	Specify			≠ previous	
		Euros			≠ previous	
	Concessions	Specify			≠ previous	
		Euros			≠ previous	
	EU Fund	Specify			≠ previous	
		Euros			≠ previous	
	Other funding source	Specify			≠ previous	
		Euros			≠ previous	
	Project Folder Title	(As built documentation or if not available then final design documentation)			≠ previous	

TRANSPORT COMMUNITY

Airports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
Project Documentation	Prepared by					
	Supervised by				≠ previous	
Performance Indicators	Construction period	Forecasted (months)			≠ previous	
		Actual (months)			≠ previous	
	CAPEX	Forecasted (Euros)			≠ previous	
		Actual (Euros)			≠ previous	
	OPEX	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Maintenance cost	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Interest During Construction	%			≠ previous	
	EBITDA (last year)	Euros			≠ previous	
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			≠ previous	
		Actual (Euros per year)			≠ previous	
	Traffic	Throughput - forecasted			≠ previous	
		Throughput - actual			≠ previous	
		Passenger traffic - forecasted			≠ previous	
		Passenger traffic - actual			≠ previous	
		Freight (tn) - forecasted			≠ previous	
		Freight (tn) - actual			≠ previous	
LIVE PROJECTS						
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			≠ previous	
		Actual			≠ previous	
	Design Completion Date (month/ year)	Forecasted (on tender issue)			≠ previous	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			≠ previous	
		Actual			≠ previous	
	Project Completion Date (month/ year)	**Forecasted (on tender issue)**			**≠ previous**	
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become			**≠ previous**	
Project Funding Sources	**National Budget**	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	WB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EBRD	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EIB	**Euros**			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other IFI	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Concessions	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	EU Fund	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)			**≠ previous**	
	Other funding source	**Specify**			**≠ previous**	
		Euros			**≠ previous**	
		allocated/ agreement signed (yes/no)				
Technical Project Status	**Pre-Feasibility Study**	**yes/no**			**≠ previous**	
	Feasibility Study	**yes/no**			**≠ previous OR (yes) while previous is (no)**	
	Concept Design	**yes/no**			**≠ previous OR (yes) while previous is (no)**	
	Preliminary Design	**yes/no**			**≠ previous OR (yes) while previous is (no)**	
	Detail Design	**yes/no**			**≠ previous OR (yes) while previous is (no)**	

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Airports - Project Monitoring

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if info N/A	Data Validation Request Criteria	Data Validator
	Environmental Impact Assessment	**yes/no**			**≠ previous**	
Project Documentation	Feasibility Study	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Concept Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Preliminary Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Detail Design	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
	Environmental Impact Assessment	Title			≠ previous	
		Prepared by			≠ previous	
		Supervised by			≠ previous	
Social Indicators	**Annual Traffic Demand Growth**	**%**			**≠ previous**	
	Modal transfer	**% (if applicable)**			**≠ previous**	
	Annual Accident Rate Reduction	**% (if applicable)**			**≠ previous**	
Economic Indicators	**EIRR (Economic Internal Rate of Return)**	**%**			**≠ previous**	
	NPV (Net Present Value)	**Euros**			**≠ previous**	
	SDR (Social Discount Rate)	**%**			**≠ previous**	
	Project Planning & Design Cost	**Euros**			**≠ previous**	
	Project Construction Cost	**Euros**			**≠ previous**	
	Total Project Cost	**Euros**			**≠ previous**	
Financial Indicators	**FIRR (Financial Internal Rate of Return)**	**%**			**≠ previous**	
	FNPV (Financial Net Present Value)	**Euros**			**≠ previous**	
	FDR (Financial Discount Rate)	**%**			**≠ previous**	
	WACC (Weighted Average Cost of Capital)	**%**			**≠ previous**	
	First year of profit	**year**			**≠ previous**	
	DSCR (Debt Service Coverage Ratio)	**%**			**≠ previous**	
Environmental Indicators	**CO2 emissions**	**+/- %**			**≠ previous**	
	NOx emissions	**+/- %**			**≠ previous**	
	O2 emission evolution	**+/- %**			**≠ previous**	
	Non-methane hydrocarbons	**+/- %**			**≠ previous**	
	Particulate matter (ppm)	**+/- %**			**≠ previous**	
	Climate Change Resilience	**Provide description of the project's effect to the climate change resilience**			**≠ previous**	
	Protected Natural Areas Affected	**km2**			**≠ previous**	
Geospatial data	Location of the Airport	Point geometry or x,y coordinates			≠ previous	

Geospatial Data

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if Info N/A	Data Validation Request Criteria	Data Validator
Reporting Organisation Data	Name of responsible Company/Authority		Annually			
	Correspondence Address					
	Contact Person					
	Position					
	Phone number					
	Email					
NUTS Level 0	Geometry	Line or polygon geometry of the country boundary			≠ previous	
	NUTS0 code				≠ previous	
	NUTS0 name				≠ previous	
NUTS Level 1	Geometry	Line or polygon geometry of NUTS level 1			≠ previous	
	NUTS1 code				≠ previous	
	NUTS1 name				≠ previous	
NUTS Level 2	Geometry	Line or polygon geometry of NUTS level 2			≠ previous	
	NUTS2 code				≠ previous	
	NUTS2 name				≠ previous	
NUTS Level 3	Geometry	Line or polygon geometry of NUTS level 3			≠ previous	
	NUTS3 code				≠ previous	
	NUTS3 name				≠ previous	
Settlements	Geometry	point geometry of settlements			≠ previous	
	Settlement code				≠ previous	
	Settlement type				≠ previous	
	Settlement name				≠ previous	
Roads (National and Strategic Road Network)	Location of Road	Line geometry			≠ previous	
	Location of tunnels	Line geometry or Point geometry or x,y			≠ previous	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y			≠ previous	
	Location of parkings	Line geometry or Point geometry or x,y			≠ previous	
	Location of fuel stations	Point geometry or x,y coordinates			≠ previous	
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates			≠ previous	
Rail	Location of Railway Line	Line geometry			≠ previous	
	Location of tunnels	Line geometry or Point geometry or x,y			≠ previous	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y			≠ previous	
	Location of Stations	Line geometry or Point geometry or x,y			≠ previous	
	Location of level crossings	Point geometry or x,y coordinates			≠ previous	
	Location of serious accidents	Point geometry or x,y coordinates			≠ previous	
Inland Waterways	Location of the IWW	Line geometry			≠ previous	
	Location of the IWW port	Point geometry or x,y coordinates			≠ previous	
	Single locks	Point geometry or x,y coordinates			≠ previous	
	Double locks	Point geometry or x,y coordinates			≠ previous	
	Ports, transhipment or storage facilities	Point geometry or x,y coordinates			≠ previous	

Geospatial Data

Category	Parameter	Details	Data Collection Frequency - TODIS	Calculation if Info N/A	Data Validation Request Criteria	Data Validator
Seaports	Location of the Seaport	Point geometry or x,y coordinates			≠ previous	
Airports	Location of the Airport	Point geometry or x,y coordinates			≠ previous	
Border Crossings	Location of the border crossings	Point geometry or x,y coordinates			≠ previous	
Freight Terminal	Location of the Freight Terminals	Point geometry or x,y coordinates			≠ previous	

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
Rail Transport	Market access	Regulation No 11 concerning the abolition of discrimination in transport rates and conditions, in implementation of Article 79 (3) of the Treaty establishing the European Economic Community (OJ EC 52, 16.8.1960, p. 1121).	https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A31960R0011
		Directive 2012/34/EU of the European Parliament and of the Council of 21 November 2012 establishing a single European railway area (OJ EU L 343, 14.12.2012, p. 32).	
		Commission Implementing Regulation (EU) No 869/2014 of 11 August 2014 on new rail passenger services (OJ EU L 239, 12.8.2014, p. 1).	No longer in force, Date of end of validity: 11/12/2020; Repealed by 32018R1795ELI: http://data.europa.eu/eli/reg_impl/2014/869/oj
		Commission Implementing Regulation (EU) 2015/10 of 6 January 2015 on criteria for applicants for rail infrastructure capacity and repealing Implementing Regulation (EU) No 870/2014 (OJ EU L 3, 7.1.2015, p. 34).	
		Commission Implementing Regulation (EU) 2015/171 of 4 February 2015 on certain aspects of the procedure of licensing railway undertakings (OJ EU L 29, 5.2.2015, p. 3).	
		Commission Implementing Regulation (EU) 2015/909 of 12 June 2015 on the modalities for the calculation of the cost that is directly incurred as a result of operating the train service (OJ EU L 148, 13.6.2015, p. 17).	
		Commission Implementing Regulation (EU) 2015/1100 of 7 July 2015 on the reporting obligations of the Member States in the framework of rail market monitoring (OJ EU L 181, 9.7.2015, p. 1).	
		Commission Implementing Regulation (EU) 2016/545 of 7 April 2016 on procedures and criteria concerning framework agreements for the allocation of rail infrastructure capacity (OJ EU L 94, 8.4.2016, p. 1).	
		Regulation (EU) No 913/2010 of the European Parliament and of the Council of 22 September 2010 concerning a European rail network for competitive freight (OJ EU L 276, 20.10.2010, p. 22).	In force: This act has been changed. Current consolidated version: 01/01/2014 ELI: http://data.europa.eu/eli/reg/2010/913/oj
	Train driver licensing	Directive 2007/59/EC of the European Parliament and of the Council of 23 October 2007 on the certification of train drivers operating locomotives and trains on the railway system in the Community (OJ EU L 315, 3.12.2007, p. 51).	In force: This act has been changed. Current consolidated version: 08/07/2019 ELI: http://data.europa.eu/eli/dir/2007/59/oj
		Commission Regulation (EU) No 36/2010 of 3 December 2009 on Community models for train driving licences, complementary certificates, certified copies of complementary certificates and application forms for train driving licences, under Directive 2007/59/EC of the European Parliament and the Council (OJ EU L 13, 19.1.2010, p. 1).	In force: This act has been changed. Current consolidated version: 01/07/2013 ELI: http://data.europa.eu/eli/reg/2010/36/oj
		Commission Decision 2010/17/EC of 29 October 2009 on the adoption of basic parameters for registers of train driving licences and complementary certificates provided for under Directive 2007/59/EC of the European Parliament and of the Council (OJ EU L 8, 13.1.2010, p. 17).	
		Commission Decision 2011/765/EU of 22 November 2011 on criteria for the recognition of training centres involved in the training of train drivers, on criteria for the recognition of examiners of train drivers and on criteria for the organisation of examinations in accordance with Directive 2007/59/EC of the European Parliament and of the Council (OJ EU L 314, 29.11.2011, p. 36).	

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
	Interoperability	Directive (EU) 2016/797 of the European Parliament and of the Council of 11 May 2016 on the interoperability of the rail system within the European Union (OJ EU L 138, 26.5.2016, p. 44).	In force: This act has been changed. Current consolidated version: 28/05/2020 ELI: http://data.europa.eu/eli/dir/2016/797/oj
		Directive 2008/57/EC of the European Parliament and of the Council of 17 June 2008 on the interoperability of the rail system within the Community (OJ EU L 191, 18.7.2008, p. 1). (See however Article 58 of Directive (EU) 2016/797).	No longer in force, Date of end of validity: 30/10/2020; Repealed by 32016L0797 And 32016L0798. Latest consolidated version: 01/01/2015 ELI: http://data.europa.eu/eli/dir/2008/57/oj
		Commission Decision 2009/965/EC of 30 November 2009 on the reference document referred to in Article 27(4) of Directive 2008/57/EC of the European Parliament and of the Council on the interoperability of the rail system within the Community (OJ EU L 341, 22.12.2009, p. 1).	In force: This act has been changed. Current consolidated version: 01/01/2016 ELI: http://data.europa.eu/eli/dec/2009/965/oj
		Commission Regulation (EU) No 1299/2014 of 18 November 2014 on the technical specifications for interoperability relating to the 'infrastructure' subsystem of the rail system in the European Union (OJ EU L 356, 12.12.2014, p. 1).	In force: This act has been changed. Current consolidated version: 16/06/2019 ELI: http://data.europa.eu/eli/reg/2014/1299/oj
		Commission Regulation (EU) No 1300/2014 of 18 November 2014 on the technical specifications for interoperability relating to accessibility of the Union's rail system for persons with disabilities and persons with reduced mobility (OJ EU L 356, 12.12.2014, p. 110).	In force: This act has been changed. Current consolidated version: 16/06/2019 ELI: http://data.europa.eu/eli/reg/2014/1300/oj
		Commission Regulation (EU) No 1301/2014 of 18 November 2014 on the technical specifications for interoperability relating to the 'energy' subsystem of the rail system in the Union (OJ EU L 356, 12.12.2014, p. 179).	In force: This act has been changed. Current consolidated version: 16/06/2019 ELI: http://data.europa.eu/eli/reg/2014/1301/oj
		Commission Regulation (EU) No 1302/2014 of 18 November 2014 concerning a technical specification for interoperability relating to the 'rolling stock — locomotives and passenger rolling stock' subsystem of the rail system in the European Union (OJ EU L 356, 12.12.2014, p. 228).	In force: This act has been changed. Current consolidated version: 11/03/2020 ELI: http://data.europa.eu/eli/reg/2014/1302/oj
		Commission Regulation (EU) No 1303/2014 of 18 November 2014 concerning the technical specification for interoperability relating to 'safety in railway tunnels' of the rail system of the European Union (OJ EU L 356, 12.12.2014, p. 394).	In force: This act has been changed. Current consolidated version: 16/06/2019 ELI: http://data.europa.eu/eli/reg/2014/1303/oj
		Commission Regulation (EU) No 1304/2014 of 26 November 2014 on the technical specification for interoperability relating to the subsystem 'rolling stock — noise' amending Decision 2008/232/EC and repealing Decision 2011/229/EU (OJ EU L 356, 12.12.2014, p. 421).	In force: This act has been changed. Current consolidated version: 16/06/2019 ELI: http://data.europa.eu/eli/reg/2014/1304/oj
		Commission Regulation (EU) No 1305/2014 of 11 December 2014 on the technical specification for interoperability relating to the telematics applications for freight subsystem of the rail system in the European Union and repealing the Regulation (EC) No 62/2006 (OJ EU L 356, 12.12.2014, p. 438).	In force: This act has been changed. Current consolidated version: 16/06/2019 ELI: http://data.europa.eu/eli/reg/2014/1305/oj
		Commission Implementing Decision 2011/665/EU of 4 October 2011 on the European register of authorised types of railway vehicles (OJ EU L 64, 8.10.2011, p. 32).	In force: This act has been changed. Current consolidated version: 16/06/2019 ELI: http://data.europa.eu/eli/dec_impl/2011/665/oj
		Commission Implementing Decision 2014/880/EU of 26 November 2014 on the common specifications of the register of railway infrastructure and repealing Implementing Decision 2011/633/EU (OJ EU L 356, 12.12.2014, p. 489).	No longer in force, Date of end of validity: 15/06/2019; Arna aisghairm le 32019R0777 ELI: http://data.europa.eu/eli/dec_impl/2014/880/oj
		Commission Decision 2012/757/EU of 14 November 2012 concerning the technical specification for interoperability relating to the 'operation and traffic management' subsystem of the rail system in the European Union and amending Decision 2007/756/EC (OJ EU L 345, 15.12.2012, p. 1).	In force: This act has been changed. Current consolidated version: 16/06/2020 ELI: http://data.europa.eu/eli/dec/2012/757/oj
		Commission Decision 2011/229/EU of 4 April 2011 concerning the technical specifications of interoperability relating to the subsystem 'rolling stock – noise' of the trans-European conventional rail system (OJ EU L 99, 13.4.2011, p. 1).	No longer in force, Date of end of validity: 31/12/2014; Repealed by 32014R1304. Latest consolidated version: 24/01/2013 ELI: http://data.europa.eu/eli/dec/2011/229/oj

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
		Commission Decision 2011/291/EU of 26 April 2011 concerning a technical specification for interoperability relating to the rolling stock subsystem — 'locomotives and passenger rolling stock' of the trans-European conventional rail system (OJ EU L 139, 26.5.2011, p. 1).	No longer in force, Date of end of validity: 31/12/2014; Repealed by 32014R1302. Latest consolidated version: 24/01/2013 ELI: http://data.europa.eu/eli/dec/2011/291/oj
		Commission Regulation (EU) No 454/2011 of 5 May 2011 on the technical specification for interoperability relating to the subsystem 'telematics applications for passenger services' of the trans-European rail system (OJ EU L 123, 12.5.2011, p. 11).	In force: This act has been changed. Current consolidated version: 16/06/2019 ELI: http://data.europa.eu/eli/reg/2011/454/oj
		Commission Decision 2011/314/EU of 12 May 2011 concerning the technical specification for interoperability relating to the 'operation and traffic management' subsystem of the trans-European conventional rail system (OJ EU L 144, 31.5.2011, p. 1).	No longer in force, Date of end of validity: 31/12/2013; Repealed by 32012D0757. Latest consolidated version: 24/01/2013 ELI: http://data.europa.eu/eli/dec/2011/314/oj
		Commission Regulation (EU) No 201/2011 of 1 March 2011 on the model of declaration of conformity to an authorised type of railway vehicle (OJ EU L 57, 2.3.2011, p. 8).	No longer in force, Date of end of validity: 30/10/2020; Repealed by 32019R0250 And 32020R0779 ELI: http://data.europa.eu/eli/reg/2011/201/oj
		Commission Regulation (EU) 2016/919 of 27 May 2016 on the technical specification for interoperability relating to the 'control-command and signalling' subsystems of the rail system in the European Union (OJ EU L 158, 15.6.2016, p. 1).	In force: This act has been changed. Current consolidated version: 11/03/2020 ELI: http://data.europa.eu/eli/reg/2016/919/oj
		Commission Regulation (EU) No 321/2013 of 13 March 2013 concerning the technical specification for interoperability relating to the subsystem 'rolling stock — freight wagons' of the rail system in the European Union and repealing Decision 2006/861/EC (OJ EU L 104, 12.4.2013, p. 1).	In force: This act has been changed. Current consolidated version: 11/03/2020 ELI: http://data.europa.eu/eli/reg/2013/321/oj
		Commission Decision 2010/713/EU of 9 November 2010 on modules for the procedures for assessment of conformity, suitability for use and EC verification to be used in the technical specifications for interoperability adopted under Directive 2008/57/EC of the European Parliament and of the Council (OJ EU L 319, 4.12.2010, p. 1).	
	European Union Agency for Railways	Regulation (EU) 2016/796 of the European Parliament and of the Council of 11 May 2016 on the European Union Agency for Railways and repealing Regulation (EC) No 881/2004 (OJ EU L 138, 26.5.2016, p. 1).	
	Railway safety	Directive (EU) 2016/798 of the European Parliament and of the Council of 11 May 2016 on railway safety (OJ EU L 138, 26.5.2016, p. 102).	In force: This act has been changed. Current consolidated version: 23/10/2020 ELI: http://data.europa.eu/eli/dir/2016/798/oj
		Directive 2004/49/EC of the European Parliament and of the Council of 29 April 2004 on safety on the Community's railways and amending Council Directive 95/18/EC on the licensing of railway undertakings and Directive 2001/14/EC on the allocation of railway infrastructure capacity and the levying of charges for the use of railway infrastructure and safety certification (Railway Safety Directive) (OJ EU L 164, 30.4.2004, p. 44). (See however Article 34 of Directive (EU) 2016/798).	No longer in force, Date of end of validity: 30/10/2020; Repealed by 32016L0798. Latest consolidated version: 30/07/2014 ELI: http://data.europa.eu/eli/dir/2004/49/oj
		Commission Regulation (EC) No 653/2007 of 13 June 2007 on the use of a common European format for safety certificates and application documents in accordance with Article 10 of Directive 2004/49/EC of the European Parliament and of the Council and on the validity of safety certificates delivered under Directive 2001/14/EC (OJ EU L 153, 14.6.2007, p. 9).	No longer in force, Date of end of validity: 30/10/2020; Repealed by 32018R0763 And 32020R0777. Latest consolidated version: 16/06/2020 ELI: http://data.europa.eu/eli/reg/2007/653/oj
		Commission Regulation (EU) No 445/2011 of 10 May 2011 on a system of certification of entities in charge of maintenance for freight wagons and amending Regulation (EC) No 653/2007 (OJ EU L 122, 11.5.2011, p. 22).	No longer in force, Date of end of validity: 30/10/2020; Implicitly repealed by 32018R0763 And 32020R0777. Latest consolidated version: 17/06/2020 ELI: http://data.europa.eu/eli/reg/2011/445/oj

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
		Commission Regulation (EU) No 1158/2010 of 9 December 2010 on a common safety method for assessing conformity with the requirements for obtaining railway safety certificates (OJ EU L 326, 10.12.2010, p. 11).	No longer in force, Date of end of validity: 30/10/2020; Repealed by 32018R0762 And 32020R0782 ELI: http://data.europa.eu/eli/reg/2010/1158/oj
		Commission Regulation (EU) No 1169/2010 of 10 December 2010 on a common safety method for assessing conformity with the requirements for obtaining a railway safety authorisation (OJ EU L 327, 11.12.2010, p. 13).	
		Commission Regulation (EU) No 1078/2012 of 16 November 2012 on a common safety method for monitoring to be applied by railway undertakings, infrastructure managers after receiving a safety certificate or safety authorisation and by entities in charge of maintenance (OJ EU L 320, 17.11.2012, p. 8).	
		Commission Regulation (EU) No 1077/2012 of 16 November 2012 on a common safety method for supervision by national safety authorities after issuing a safety certificate or safety authorisation (OJ EU L 320, 17.11.2012, p. 3).	No longer in force, Date of end of validity: 15/06/2019; Repealed and replaced by 32018R0761 ELI: http://data.europa.eu/eli/reg/2012/1077/oj
		Commission Decision 2009/460/EC of 5 June 2009 on the adoption of a common safety method for assessment of achievement of safety targets, as referred to in Article 6 of Directive 2004/49/EC of the European Parliament and of the Council (OJ EU L 150, 13.6.2009, p. 11).	
	Inland transport of dangerous goods	Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods (OJ EU L 260, 30.9.2008, p. 13).	In force: This act has been changed. Current consolidated version: 24/12/2020 ELI: http://data.europa.eu/eli/dir/2008/68/oj
	Transportable pressure equipment	Directive 2010/35/EU of the European Parliament and of the Council of 16 June 2010 on transportable pressure equipment and repealing Council Directives 76/767/EEC, 84/525/EEC, 84/526/EEC, 84/527/EEC and 1999/36/EC (OJ EU L 165, 30.6.2010, p. 1).	
	Social field - working time / hours	Directive 2003/88/EC of the European Parliament and of the Council of 4 November 2003 concerning certain aspects of the organisation of working time (OJ EU L 299, 18.11.2003, p. 9).	
		Council Directive 2005/47/EC of 18 July 2005 on the Agreement between the Community of European Railways (CER) and the European Transport Workers' Federation (ETF) on certain aspects of the working conditions of mobile workers engaged in interoperable cross-border services in the railway sector - Agreement concluded by the European Transport Workers' Federation (ETF) and the Community of European Railways (CER) on certain aspects of the working conditions of mobile workers engaged in interoperable cross-border services (OJ EU L 195, 27.7.2005 p. 15).	
	Passenger rights	Regulation (EC) No 1371/2007 of the European Parliament and of the Council of 23 October 2007 on rail passengers' rights and obligations (OJ EU L 315, 3.12.2007, p. 14).	

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
Road Transport	hicle taxes	Directive 1999/62/EC of the European Parliament and of the Council on the charging of heavy goods vehicles for the use of certain infrastructures (OJ EC L 187, 20.7.1999, p. 42).	In force: This act has been changed. Current consolidated version: 01/08/2020 ELI: http://data.europa.eu/eli/dir/1999/62/oj
	Admission to the occupation of road operator	Regulation (EC) No 1071/2009 of the European Parliament and of the Council of 21 October 2009 establishing common rules concerning the conditions to be complied with to pursue the occupation of road transport operator and repealing Council Directive 96/26/EC (OJ EU L 300, 14.11.2009, p. 51).	In force: This act has been changed. Current consolidated version: 01/07/2013 ELI: http://data.europa.eu/eli/reg/2009/1071/oj
	Social provisions - driving time and rest periods	Regulation (EC) No 561/2006 of the European Parliament and of the Council of 15 March 2006 on the harmonisation of certain social legislation relating to road transport and repealing Council Regulations (EEC) No 3820/85 and (EC) No 2135/98 and repealing Council Regulation (EEC) No 3820/85 (OJ EU L 102, 11.4.2006, p. 1).	In force: This act has been changed. Current consolidated version: 20/08/2020 ELI: http://data.europa.eu/eli/reg/2006/561/oj
		Commission Regulation (EU) No 581/2010 of 1 July 2010 on the maximum periods for the downloading of relevant data from vehicle units and from driver cards (OJ EU L 168, 2.7.2010, p. 16).	
	Tachograph	Regulation (EU) No 165/2014 of the European Parliament and of the Council of 4 February 2014 on tachographs in road transport, repealing Council Regulation (EEC) No 3821/85 on recording equipment in road transport and amending Regulation (EC) No 561/2006 of the European Parliament and of the Council on the harmonisation of certain social legislation relating to road transport (OJ EU L 60, 28.2.2014, p. 1).	In force: This act has been changed. Current consolidated version: 20/08/2020 ELI: http://data.europa.eu/eli/reg/2014/165/oj
		Commission Implementing Regulation (EU) 2016/68 of 21 January 2016 on common procedures and specifications necessary for the interconnection of electronic registers of driver cards (OJ EU L 15, 22.1.2016, p. 51).	In force: This act has been changed. Current consolidated version: 02/03/2018 ELI: http://data.europa.eu/eli/reg_impl/2016/68/oj
		Commission Implementing Regulation (EU) 2016/799 of 18 March 2016 implementing Regulation (EU) No 165/2014 of the European Parliament and of the Council laying down the requirements for the construction, testing, installation, operation and repair of tachographs and their components (OJ EU L 139, 26.5.2016, p. 1).	In force: This act has been changed. Current consolidated version: 26/02/2020 ELI: http://data.europa.eu/eli/reg_impl/2016/799/oj
		Council Regulation (EEC) No 3821/85 on recording equipment in road transport (OJ EC L 370, 31.12.1985, p. 8). (See however Article 46 of Regulation (EU) No 165/2014).	No longer in force, Date of end of validity: 28/02/2014; Repealed by 32014R0165. Latest consolidated version: 01/07/2013 ELI: http://data.europa.eu/eli/reg/1985/3821/oj
	Enforcement of social legislation	Directive 2006/22/EC of the European Parliament and of the Council of 15 March 2006 on minimum conditions for the implementation of Council Regulations (EEC) No 3820/85 and (EEC) No 3821/85 concerning social legislation relating to road transport activities and repealing Council Directive 88/599/EEC (OJ EU L 102, 11.4.2006, p. 35).	In force: This act has been changed. Current consolidated version: 01/01/2017 ELI: http://data.europa.eu/eli/dir/2006/22/oj
	Form of attestation of activities	Commission Decision 2007/230/EC of 12 April 2007 on a form concerning social legislation relating to road transport activities (OJ EU L 99, 14.4.2007, p. 14).	In force: This act has been changed. Current consolidated version: 16/12/2009 ELI: http://data.europa.eu/eli/dec/2007/230/oj
	Working time	Directive 2002/15/EC of the European Parliament and of the Council of 11 March 2002 on the organisation of the working time of persons performing mobile road transport activities (OJ EC L 80, 23.3.2002, p. 35).	
	Transportable pressure equipment	Directive 2010/35/EU of the European Parliament and of the Council of 16 June 2010 on transportable pressure equipment and repealing Council Directives 76/767/EEC, 84/525/EEC, 84/526/EEC, 84/527/EEC and 1999/36/EC (OJ EU L 165, 30.6.2010, p. 1).	

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
	Roadworthiness	Directive 2014/45/EU of the European Parliament and of the Council of 3 April 2014 on periodic roadworthiness tests for motor vehicles and their trailers and repealing Directive 2009/40/EC (OJ EU L 127, 29.4.2014, p. 51).	In force: This act has been changed. Current consolidated version: 29/04/2014 ELI: http://data.europa.eu/eli/dir/2014/45/oj
		Directive 2009/40/EC of the European Parliament and of the Council of 6 May 2009 on roadworthiness tests for motor vehicles and their trailers (OJ EU L 141, 6.6.2009, p. 12). (See however Article 24 of Directive 2014/45/EU).	No longer in force, Date of end of validity: 19/05/2018; Repealed by 32014L0045. Latest consolidated version: 28/07/2010 ELI: http://data.europa.eu/eli/dir/2009/40/oj
	Roadside inspection	Directive 2014/47/EU of the European Parliament and of the Council of 3 April 2014 on the technical roadside inspection of the roadworthiness of commercial vehicles circulating in the Union and repealing Directive 2000/30/EC (OJ EU L 127, 29.4.2014, p. 134).	In force: This act has been changed. Current consolidated version: 19/05/2014 ELI: http://data.europa.eu/eli/dir/2014/47/oj
		Directive 2000/30/EC of the Parliament and of the Council of 6 June 2000 on the technical roadside inspection of the roadworthiness of commercial vehicles circulating in the Community (OJ EC L 203, 10.8.2000, p. 1). (See however Article 27 of Directive 2014/47/EU).	No longer in force, Date of end of validity: 19/05/2018; Repealed by 32014L0047. Latest consolidated version: 28/07/2010 ELI: http://data.europa.eu/eli/dir/2000/30/oj
	Speed limitation devices	Council Directive 92/6/EEC of 10 February 1992 on the installation and use of speed limitation devices for certain categories of motor vehicles in the Community (OJ EC L 57, 2.3.1992, p. 27).	In force: This act has been changed. Current consolidated version: 04/12/2002 ELI: http://data.europa.eu/eli/dir/1992/6/oj
	Safety belts	Council Directive 91/671/EEC of 16 December 1991 relating to the compulsory use of safety belts and child-restraint systems in vehicles (OJ EC L 373, 31.12.1991, p. 26).	In force: This act has been changed. Current consolidated version: 20/03/2014 ELI: http://data.europa.eu/eli/dir/1991/671/oj
	Mirrors	Directive 2007/38/EC of the European Parliament and of the Council of 11 July 2007 on the retrofitting of mirrors to heavy goods vehicles registered in the Community (OJ EU L 184, 14.7.2007, p. 25).	
	Registration documents	Council Directive 1999/37/EC of 29 April 1999 on the registration documents for vehicles (OJ EC L 138, 1.6.1999, p. 57).	In force: This act has been changed. Current consolidated version: 20/05/2018 ELI: http://data.europa.eu/eli/dir/1999/37/oj
		Council Directive 2006/103/EC of 20 November 2006 adapting certain Directives in the field of transport policy, by reason of the accession of Bulgaria and Romania (OJ EU L 363, 20.12.2006, p. 344).	In force: This act has been changed. Current consolidated version: 15/12/2012 ELI: http://data.europa.eu/eli/dir/2006/103/oj
	Training of drivers	Directive 2003/59/EC of the Parliament and of the Council of 15 July 2003 on the initial qualification and periodic training of drivers of certain road vehicles for the carriage of goods or passengers, amending Council Regulation (EEC) No 3820/85 and Council Directive 91/439/EEC and repealing Council Directive 76/914/EEC (OJ EU L 226, 10.9.2003, p. 4).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/dir/2003/59/oj
	Driving licence	Directive 2006/126/EC of the European Parliament and of the Council of 20 December 2006 on driving licences (OJ EU L 403, 30.12.2006, p. 18).	In force: This act has been changed. Current consolidated version: 01/11/2020 ELI: http://data.europa.eu/eli/dir/2006/126/oj
		Commission Regulation (EU) No 383/2012 of 4 May 2012 laying down technical requirements with regard to driving licences which include a storage medium (microchip) (OJ EU L 120, 5.5.2012, p. 1).	In force: This act has been changed. Current consolidated version: 17/06/2014 ELI: http://data.europa.eu/eli/reg/2012/383/oj
	Cross-border exchange of information	Directive (EU) 2015/413 of the European Parliament and of the Council of 11 March 2015 facilitating cross-border exchange of information on road-safety-related traffic offences (OJ EU L 68, 13.3.2015, p. 9).	
	Inland transport of dangerous goods	Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods (OJ EU L 260, 30.9.2008, p. 13).	In force: This act has been changed. Current consolidated version: 24/12/2020 ELI: http://data.europa.eu/eli/dir/2008/68/oj
	Checks on transport of dangerous goods	Council Directive 95/50/EC of 6 October 1995 on uniform procedures for checks on the transport of dangerous goods by road (OJ EC L 249, 17.10.1995, p. 35).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/dir/1995/50/oj

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
	Tunnels	Directive 2004/54/EC of the European Parliament and of the Council of 29 April 2004 on minimum safety requirements for tunnels in the trans-European road network (OJ EU L 167, 30.4.2004, p. 39).	In force: This act has been changed. Current consolidated version: 07/08/2009 ELI: http://data.europa.eu/eli/dir/2004/54/oj
	Road infrastructure safety management	Directive 2008/96/EC of the European Parliament and of the Council of 19 November 2008 on road infrastructure safety management (OJ EU L 319, 29.11.2008, p. 59).	In force: This act has been changed. Current consolidated version: 16/12/2019 ELI: http://data.europa.eu/eli/dir/2008/96/oj
	Dimensions and weight of vehicles	Council Directive 96/53/EC of 25 July 1996 laying down for certain road vehicles circulating within the Community the maximum authorized dimensions in national and international traffic and the maximum authorized weights in international traffic (OJ EC L 235, 17.9.1996, p. 59).	In force: This act has been changed. Current consolidated version: 14/08/2019 ELI: http://data.europa.eu/eli/dir/1996/53/oj
	Passenger rights	Regulation (EU) No 181/2011 of the European Parliament and of the Council of 16 February 2011 concerning the rights of passengers in bus and coach transport and amending Regulation (EC) No 2006/2004 (OJ EU L 55, 28.2.2011, p. 1).	
	Clean vehicles and/or alternative fuels infrastructure	Directive 2009/33/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of clean and energy-efficient road transport vehicles (OJ EU L 120, 15.5.2009, p. 5).	In force: This act has been changed. Current consolidated version: 01/08/2019 ELI: http://data.europa.eu/eli/dir/2009/33/oj
		Directive 2014/94/EU of the European Parliament and of the Council of 22 October 2014 on the deployment of alternative fuels infrastructure (OJ EU L 307, 28.10.2014, p. 1).	In force: This act has been changed. Current consolidated version: 24/05/2020 ELI: http://data.europa.eu/eli/dir/2014/94/oj
	Intelligent Transport Systems	Directive 2010/40/EU of the European Parliament and of the Council of 7 July 2010 on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes of transport (OJ EU L 207, 6.8.2010, p. 1).	In force: This act has been changed. Current consolidated version: 09/01/2018 ELI: http://data.europa.eu/eli/dir/2010/40/oj
		Commission Implementing Decision 2011/453/EU of 13 July 2011 adopting guidelines for reporting by the Member States under Directive 2010/40/EU of the European Parliament and of the Council (OJ EU L 193, 23.7.2011, p. 48).	
		Commission Implementing Decision (EU) 2016/209 of 12 February 2016 on a standardisation request to the European standardisation organisations as regards Intelligent Transport Systems (ITS) in urban areas in support of Directive 2010/40/EU of the European Parliament and of the Council on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes of transport (OJ EU L 39, 16.2.2016, p. 48).	
		Commission Delegated Regulation (EU) No 305/2013 of 26 November 2012 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to the harmonised provision for an interoperable EU-wide eCall (OJ EU L 91, 3.4.2013, p. 1).	
		Commission Delegated Regulation (EU) No 885/2013 of 15 May 2013 supplementing ITS Directive 2010/40/EU of the European Parliament and of the Council with regard to the provision of information services for safe and secure parking places for trucks and commercial vehicles (OJ EU L 247, 18.9.2013, p. 1).	
		Commission Delegated Regulation (EU) No 886/2013 of 15 May 2013 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to data and procedures for the provision, where possible, of road safety-related minimum universal traffic information free of charge to users (OJ EU L 247, 18.9.2013, p. 6).	
		Commission Delegated Regulation (EU) 2015/962 of 18 December 2014 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to the provision of EU-wide real-time traffic information services (OJ EU L 157, 23.6.2015, p. 21).	
		Decision No 585/2014/EU of the European Parliament and of the Council of 15 May 2014 on the deployment of the interoperable EU-wide eCall service (OJ EU L 164, 3.6.2014, p. 6).	
	Road toll systems	Directive 2004/52/EC of the European Parliament and of the Council of 29 April 2004 on the interoperability of electronic road toll systems in the Community (OJ EU L 166, 30.4.2004, p. 124).	In force: This act has been changed. Current consolidated version: 20/04/2009 ELI: http://data.europa.eu/eli/dir/2004/52/oj

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EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
		Commission Decision 2009/750/EC of 6 October 2009 on the definition of the European Electronic Toll Service and its technical elements (OJ EU L 268, 13.10.2009, p. 11).	
	Type approval	Directive 2007/46/EC of the European Parliament and of the Council of 5 September 2007 establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles (Framework Directive) (OJ EU L 263, 9.10.2007, p. 1).	No longer in force, Date of end of validity: 31/08/2020; Repealed by 32018R0858. Latest consolidated version: 01/09/2019 ELI: http://data.europa.eu/eli/dir/2007/46/oj
Maritime Transport	Maritime policy	Regulation (EU) No 1255/2011 of the European Parliament and of the Council of 30 November 2011 establishing a Programme to support the further development of an integrated Maritime Policy (OJ EU L 132 5.12.2011, p. 1).	No longer in force, Date of end of validity: 31/12/2013; Repealed by 32014R0508 ELI: http://data.europa.eu/eli/reg/2011/1255/oj
	Access to the market	Council Regulation (EEC) No 3577/92 of 7 December 1992 applying the principle of freedom to provide services to maritime transport within Member States (maritime cabotage) (OJ EC L 364, 12.12.1992, p. 7).	In force: This act has been changed. Current consolidated version: 01/07/2013 ELI: http://data.europa.eu/eli/reg/1992/3577/oj
		Council Regulation (EEC) No 4055/86 of 22 December 1986 applying the principle of freedom to provide services to maritime transport between Member States and between Member States and third countries (OJ EC L 378, 31.12.1986, p. 1).	In force: This act has been changed. Current consolidated version: 17/12/1990 ELI: http://data.europa.eu/eli/reg/1986/4055/oj
		Regulation (EC) No 789/2004 of the European Parliament and of the Council of 21 April 2004 on the transfer of cargo and passenger ships between registers within the Community and repealing Council Regulation (EEC) No 613/91 (OJ EU L 138, 30.4.2004, p. 19).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/reg/2004/789/oj
		Council Regulation (EEC) No 4058/86 of 22 December 1986 concerning coordinated action to safeguard free access to cargoes in ocean trades (OJ EC L 378, 31.12.1986, p. 21).	
	International relations	Council Regulation (EEC) No 4057/86 of 22 December 1986 on unfair pricing practices in maritime transport (OJ EC L 378, 31.12.1986, p. 14).	
	International agreements	Council Decision 2012/22/EU of 12 December 2011 concerning the accession of the European Union to the Protocol of 2002 to the Athens Convention relating to the Carriage of Passengers and their Luggage by Sea, 1974, with the exception of Articles 10 and 11 thereof (OJ EU L 8, 12.1.2012, p. 1).	In force: This act has been changed. Current consolidated version: 01/07/2013 ELI: http://data.europa.eu/eli/dec/2012/22/oj
		Council Decision 2012/23/EU of 12 December 2011 concerning the accession of the European Union to the Protocol of 2002 to the Athens Convention relating to the Carriage of Passengers and their Luggage by Sea, 1974, as regards Articles 10 and 11 thereof (OJ EU L 8, 12.1.2012, p. 13).	In force: This act has been changed. Current consolidated version: 01/07/2013 ELI: http://data.europa.eu/eli/dec/2012/23(1)/oj

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
	Ship inspection and survey organisations - recognised organisations	Directive 2009/15/EC of the European Parliament and of the Council of 23 April 2009 on common rules and standards for ship inspection and survey organisations and for the relevant activities of maritime administrations (OJ EU L 131, 28.5.2009, p. 47).	
		Commission Decision 2009/491/EC of 16 June 2009 on criteria to be followed in order to decide when the performance of an organisation acting on behalf of a flag State can be considered an unacceptable threat to safety and the environment (OJ EU L 162, 25.6.2009, p. 6).	
		Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 on common rules and standards for ship inspection and survey organisations (OJ EU L 131, 28.5.2009, p. 11).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/reg/2009/391/oj
		Commission Regulation (EU) No 788/2014 of 18 July 2014 laying down detailed rules for the imposition of fines and periodic penalty payments and the withdrawal of recognition of ship inspection and survey organisations pursuant to Articles 6 and 7 of Regulation (EC) No 391/2009 of the European Parliament and of the Council (OJ EU L 214, 19.7.2014, p. 12).	In force: This act has been changed. Current consolidated version: 08/08/2014 ELI: http://data.europa.eu/eli/reg/2014/788/oj
	Flag State	Directive 2009/21/EC of the European Parliament and of the Council of 23 April 2009 on compliance with flag State requirements (OJ EU L 131, 28.5.2009, p. 132).	
	Port State control	Directive 2009/16/EC of the European Parliament and of the Council of 23 April 2009 on port State control (OJ EU L 131, 28.5.2009, p. 57).	In force: This act has been changed. Current consolidated version: 21/12/2019 ELI: http://data.europa.eu/eli/dir/2009/16/oj
	Vessel traffic monitoring	Directive 2002/59/EC of the European Parliament and of the Council of 27 June 2002 establishing a Community vessel traffic monitoring and information system and repealing Council Directive 93/75/EEC (OJ EC L 208, 5.8.2002, p. 10).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/dir/2002/59/oj
	International Safety Management Code	Regulation (EC) 336/2006 of the European Parliament and of the Council of 15 February 2006 on the implementation of the International Safety Management Code within the Community and repealing Council Regulation (EC) No 3051/95 (OJ EU L 64, 4.3.2006, p. 1).	
	Reporting formalities	Directive 2010/65/EU of the European Parliament and of the Council of 20 October 2010 on reporting formalities for ships arriving in and/or departing from ports of the Member States and repealing Directive 2002/6/EC (OJ EU L 283, 29.10.2010, p. 1).	In force: This act has been changed. Current consolidated version: 21/12/2019 ELI: http://data.europa.eu/eli/dir/2010/65/oj
	Marine equipment	Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 on marine equipment and repealing Council Directive 96/98/EC (OJ EU L 257, 28.8.2014, p. 146).	In force: This act has been changed. Current consolidated version: 17/09/2014 ELI: http://data.europa.eu/eli/dir/2014/90/oj
	Passenger ships	Directive 2003/25/EC of the European Parliament and of the Council of 14 April 2003 on specific stability requirements for ro-ro passenger ships (OJ EU L 123, 17.5.2003, p. 22).	
		Regulation (EC) No 392/2009 of the European Parliament and of the Council of 23 April 2009 on the liability of carriers of passengers by sea in the event of accidents (OJ EU L 131, 28.5.2009, p. 24).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/reg/2009/392/oj
		Council Directive 98/41/EC of 18 June 1998 on the registration of persons sailing on board passenger ships operating to or from ports of the Member States of the Community (OJ EC L 188, 2.7.1998, p. 35).	In force: This act has been changed. Current consolidated version: 21/12/2019 ELI: http://data.europa.eu/eli/dir/1998/41/oj
		Directive 2009/45/EC of the European Parliament and of the Council of 6 May 2009 on safety rules and standards for passenger ships (OJ EU L 163, 5.6.2009, p. 1).	In force: This act has been changed. Current consolidated version: 21/12/2019 ELI: http://data.europa.eu/eli/dir/2009/45/oj
		Council Directive 1999/35/EC of 29 April 1999 on a system of mandatory surveys for the safe operation of regular ro-ro ferry and high-speed passenger craft services (OJ EC L 138, 1.6.1999, p. 1).	No longer in force, Date of end of validity: 19/12/2017; Repealed and replaced by 32017L2110. Latest consolidated version: 17/06/2009 ELI: http://data.europa.eu/eli/dir/1999/35/oj
	Safety of fishing vessels	Council Directive 97/70/EC of 11 December 1997 setting up a harmonised safety regime for fishing vessels of 24 metres in length and over (OJ EC L 34, 9.2.1998, p. 1).	In force: This act has been changed. Current consolidated version: 20/04/2009 ELI: http://data.europa.eu/eli/dir/1997/70/oj

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EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
	Oil tankers	Regulation (EU) No 530/2012 of the European Parliament and of the Council of 13 June 2012 on the accelerated phasing-in of double-hull or equivalent design requirements for single-hull oil tankers (OJ EU L 172, 30.6.2012, p. 3).	
	Bulk carriers	Directive 2001/96/EC of the European Parliament and of the Council of 4 December 2001 establishing harmonised requirements and procedures for the safe loading and unloading of bulk carriers (OJ EC L 13, 16.1.2002, p. 9).	In force: This act has been changed. Current consolidated version: 11/12/2008 ELI: http://data.europa.eu/eli/dir/2001/96/oj
	Accident investigation	Directive 2009/18/EC of the European Parliament and of the Council of 23 April 2009 establishing the fundamental principles governing the investigation of accidents in the maritime transport sector and amending Council Directive 1999/35/EC and Directive 2002/59/EC of the European Parliament and of the Council (OJ EU L 131, 28.5.2009, p. 114).	
		Commission Implementing Regulation (EU) No 651/2011 of 5 July 2011 adopting the rules of procedure of the permanent cooperation framework established by Member States in cooperation with the Commission pursuant to Article 10 of Directive 2009/18/EC of the European Parliament and of the Council (OJ EU L 177, 6.7.2011, p. 18).	
		Commission Regulation (EU) No 1286/2011 of 9 December 2011 adopting a common methodology for investigating marine casualties and incidents developed pursuant to Article 5(4) of Directive 2009/18/EC of the European Parliament and of the Council (OJ EU L 328, 10.12.2011, p. 36).	
	Insurance	Directive 2009/20/EC of the European Parliament and of the Council of 23 April 2009 on the insurance of shipowners for maritime claims (OJ EU L 131, 28.5.2009, p. 128).	
	Ship-source pollution	Directive 2005/35/EC of the European Parliament and of the Council of 7 September 2005 on ship-source pollution and on the introduction of penalties, including criminal penalties, for pollution offences (OJ EU L 255, 30.9.2005, p. 11).	In force: This act has been changed. Current consolidated version: 16/11/2009 ELI: http://data.europa.eu/eli/dir/2005/35/oj
	Ship-generated waste	Directive 2000/59/EC of the European Parliament and of the Council of 27 November 2000 on port reception facilities for ship-generated waste and cargo residues (OJ EC L 332, 28.12.2000, p. 81).	No longer in force, Date of end of validity: 26/06/2019; Repealed by 32019L0883. Latest consolidated version: 09/12/2015 ELI: http://data.europa.eu/eli/dir/2000/59/oj
	Organotin compounds	Regulation (EC) No 782/2003 of the European Parliament and of the Council of 14 April 2003 on the prohibition of organotin compounds on ships (OJ EU L 115, 9.5.2003, p. 1)	In force: This act has been changed. Current consolidated version: 20/04/2009 ELI: http://data.europa.eu/eli/reg/2003/782/oj
	Maritime security	Regulation (EC) No 725/2004 of the European Parliament and of the Council of 31 March 2004 on enhancing ship and port facility security (OJ EU L 129, 29.4.2004, p. 6).	In force: This act has been changed. Current consolidated version: 20/04/2009 ELI: http://data.europa.eu/eli/reg/2004/725/oj
		Directive 2005/65/EC of the European Parliament and of the Council of 26 October 2005 on enhancing port security (OJ EU L 310, 25.11.2005, p. 28).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/dir/2005/65/oj
		Commission Regulation (EC) No 324/2008 of 9 April 2008 laying down revised procedures for conducting Commission inspections in the field of maritime security (OJ EU L 98, 10.4.2008, p. 5).	In force: This act has been changed. Current consolidated version: 20/04/2016 ELI: http://data.europa.eu/eli/reg/2008/324/oj

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EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
	Training of seafarers	Directive 2008/106/EC of the European Parliament and of the Council of 19 November 2008 on the minimum level of training of seafarers (OJ EU L 323, 3.12.2008, p. 33).	In force: This act has been changed. Current consolidated version: 01/08/2019 ELI: http://data.europa.eu/eli/dir/2008/106/oj
		Directive 2005/45/EC of the European Parliament and of the Council of 7 September 2005 on the mutual recognition of seafarers' certificates issued by the Member States (OJ EU L 255, 30.9.2005, p. 160).	No longer in force, Date of end of validity: 31/07/2019; Repealed by 32019L1159 ELI: http://data.europa.eu/eli/dir/2005/45/oj
	Social aspects	Directive 2013/54/EU of the European Parliament and of the Council of 20 November 2013 concerning certain flag State responsibilities for compliance with and enforcement of the Maritime Labour Convention, 2006 (OJ EU L 329, 10.12.2013, p. 1).	
		Council Directive 1999/63/EC of 21 June 1999 concerning the Agreement on the organisation of working time of seafarers concluded by the European Community Shipowners' Association (ECSA) and the Federation of Transport Workers' Unions in the European Union (FST) (OJ EC L 167, 2.7.1999, p. 33).	In force: This act has been changed. Current consolidated version: 20/05/2009 ELI: http://data.europa.eu/eli/dir/1999/63/oj
		Directive 1999/95/EC of the European Parliament and of the Council of 13 December 1999 concerning the enforcement of provisions in respect of seafarers' hours of work on board ships calling at Community ports (OJ EC L 14, 20.1.2000, p. 29).	
		Council Directive 2009/13/EC of 16 February 2009 implementing the Agreement concluded by the European Community Shipowners' Associations (ECSA) and the European Transport Workers' Federation (ETF) on the Maritime Labour Convention, 2006, and amending Directive 1999/63/EC (OJ EU L 124, 20.5.2009, p. 30).	In force: This act has been changed. Current consolidated version: 15/02/2018 ELI: http://data.europa.eu/eli/dir/2009/13/oj
		Council Directive 92/29/EEC of 31 March 1992 on the minimum safety and health requirements for improved medical treatment on board vessels (OJ EC L 113, 30.4.1992, p. 19).	In force: This act has been changed. Current consolidated version: 20/11/2019 ELI: http://data.europa.eu/eli/dir/1992/29/oj
	Sea and inland waterway	Regulation (EU) No 1177/2010 of the European Parliament and of the Council of 24 November 2010 concerning the rights of passengers when travelling by sea and inland waterway and amending Regulation (EC) No 2006/2004 (OJ EU L 334, 17.12.2010, p. 1).	
	Transportable pressure equipment	Directive 2010/35/EU of the European Parliament and of the Council of 16 June 2010 on transportable pressure equipment and repealing Council Directives 76/767/EEC, 84/525/EEC, 84/526/EEC, 84/527/EEC and 1999/36/EC (OJ EU L 165, 30.6.2010, p. 1).	
	European Maritime Safety Agency	Regulation (EC) No 1406/2002 of the European Parliament and of the Council of 27 June 2002 establishing a European Maritime Safety Agency (OJ EC L 208, 5.8.2002, p. 1).	In force: This act has been changed. Current consolidated version: 06/10/2016 ELI: http://data.europa.eu/eli/reg/2002/1406/oj
	Committee on Safe Seas and the Prevention of Pollution from Ships	Regulation (EC) No 2099/2002 of the European Parliament and of the Council of 5 November 2002 establishing a Committee on Safe Seas and the Prevention of Pollution from Ships (COSS) and amending the Regulations on maritime safety and the prevention of pollution from ships (OJ EC L 324, 29.11.2002, p. 1).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/reg/2002/2099/oj

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
Inland Waterways Transport	Access to the market	Council Regulation (EC) No 1356/96 of 8 July 1996 on common rules applicable to the transport of goods or passengers by inland waterway between Member States with a view to establishing freedom to provide such transport services (OJ EC L 175, 13.7.1996, p. 7).	
		Council Regulation (EEC) No 3921/91 of 16 December 1991 laying down the conditions under which non-resident carriers may transport goods or passengers by inland waterway within a Member State (OJ EC L 373, 31.12.1991, p. 1).	
		Council Regulation (EC) No 718/99 of 29 March 1999 on a Community fleet capacity policy to promote inland waterway transport (OJ EC L 90, 2.4.1999, p. 1).	In force: This act has been changed. Current consolidated version: 18/06/2014 ELI: http://data.europa.eu/eli/reg/1999/718/oj
		Council Directive (EC) No 96/75 of 19 November 1996 on the systems of chartering and pricing in national and international inland waterway transport in the Community (OJ EC L 304, 27.11.1996, p. 12).	In force: This act has been changed. Current consolidated version: 20/11/2003 ELI: http://data.europa.eu/eli/dir/1996/75/oj
		Council Regulation (EEC) No 2919/85 of 17 October 1985 laying down the conditions for access to the arrangements under the Revised Convention for the navigation of the Rhine relating to vessels belonging to the Rhine Navigation (OJ EC L 280, 22.10.1985, p. 4).	
	Access to the profession	Council Directive No 87/540/EEC of 9 November 1987 on access to the occupation of carrier of goods by waterway in national and international transport and on the mutual recognition of diplomas, certificates and other evidence of formal qualifications for this occupation (OJ EC L 322, 12.11.1987, p. 20).	
	Boatmasters' certificates	Council Directive 91/672/EEC of 16 December 1991 on the reciprocal recognition of national boatmasters' certificates for the carriage of goods and passengers by inland waterways (OJ EC L 373, 31.12.1991, p. 29).	
		Council Directive (EC) 96/50 of 23 July 1996 on the harmonisation of the conditions for obtaining national boatmasters' certificates for the carriage of goods and passengers by inland waterway in the Community (OJ EC L 235, 17.9.1996, p. 31).	In force: This act has been changed. Current consolidated version: 11/12/2008 ELI: http://data.europa.eu/eli/dir/1996/50/oj
	Safety / technical requirements	Directive 2009/100/EC of the European Parliament and of the Council of 16 September 2009 on reciprocal recognition of navigability licences for inland waterway vessels (OJ EU L 259, 2.10.2009, p. 8).	In force: This act has been changed. Current consolidated version: 06/10/2016 ELI: http://data.europa.eu/eli/dir/2009/100/oj
		Directive (EU) 2016/1629 of the European Parliament and of the Council of 14 September 2016 laying down technical requirements for inland waterway vessels, amending Directive 2009/100/EC and repealing Directive 2006/87/EC (OJ EU L 252, 16.9.2016, p. 118).	In force: This act has been changed. Current consolidated version: 01/01/2020 ELI: http://data.europa.eu/eli/dir/2016/1629/oj
		Directive 2006/87/EC of the European Parliament and of the Council of 12 December 2006 laying down technical requirements for inland waterway vessels and repealing Council Directive 82/714/EEC (OJ EU L 389, 30.12.2006, p. 1).	No longer in force, Date of end of validity: 06/10/2018; Repealed and replaced by 32016L1629. Latest consolidated version: 01/11/2013 ELI: http://data.europa.eu/eli/dir/2006/87/oj
		(See however Article 38 of Directive (EU) 2016/1629).	
	Inland transport of dangerous goods	Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods (OJ EU L 260, 30.9.2008, p. 13).	In force: This act has been changed. Current consolidated version: 24/12/2020 ELI: http://data.europa.eu/eli/dir/2008/68/oj

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EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
	River information services	Directive 2005/44/EC of the European Parliament and of the Council of 7 September 2005 on harmonised river information services (RIS) on inland waterways in the Community (OJ EU L 255, 30.9.2005, p. 152).	In force: This act has been changed. Current consolidated version: 26/07/2019 ELI: http://data.europa.eu/eli/dir/2005/44/oj
		Commission Implementing Regulation (EU) No 909/2013 of 10 September 2013 on the technical specifications for the electronic chart display and information system for inland navigation (Inland ECDIS) referred to in Directive 2005/44/EC of the European Parliament and of the Council (OJ EU L 258, 28.9.2013, p. 1).	
		Commission Regulation (EU) No 164/2010 of 25 January 2010 on the technical specifications for electronic ship reporting in inland navigation referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community (OJ EU L 57, 6.3.2010, p. 1).	
		Commission Regulation (EC) No 416/2007 of 22 March 2007 concerning the technical specifications for Notices to Skippers as referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community (OJ EU L 105, 23.4.2007, p. 88).	In force: This act has been changed. Current consolidated version: 29/12/2018 ELI: http://data.europa.eu/eli/reg/2007/416/oj
		Commission Regulation (EC) No 415/2007 of 13 March 2007 concerning the technical specifications for vessel tracking and tracing systems referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community (OJ EU L 105, 23.4.2007, p. 35).	No longer in force, Date of end of validity: 12/06/2020; Repealed by 32019R0838. Latest consolidated version: 17/08/2012 ELI: http://data.europa.eu/eli/reg/2007/415/oj
		Commission Regulation (EC) No 414/2007 of 13 March 2007 concerning the technical guidelines for the planning, implementation and operational use of river information services (RIS) referred to in Article 5 of Directive 2005/44/EC of the European Parliament and of the Council on harmonised river information services (RIS) on inland waterways in the Community (OJ EU L 105, 23.4.2007, p. 1).	
	Environment	Directive 2009/30/EC of the European Parliament and of the Council of 23 April 2009 amending Directive 98/70/EC as regards the specification of petrol, diesel and gas-oil and introducing a mechanism to monitor and reduce greenhouse gas emissions and amending Council Directive 1999/32/EC as regards the specifications of fuel used by inland waterway vessels and repealing Directive 93/12/EEC (OJ EU L 140, 5.6.2009, p. 88).	In force: This act has been changed. Current consolidated version: 10/06/2016 ELI: http://data.europa.eu/eli/dir/2009/30/oj
		Regulation (EU) 2016/1628 of the European Parliament and of the Council of 14 September 2016 on requirements relating to gaseous and particulate pollutant emission limits and type-approval for internal combustion engines for non-road mobile machinery, amending Regulations (EU) No 1024/2012 and (EU) No 167/2013, and amending and repealing Directive 97/68/EC (OJ EU L 252, 16.9.2016, p. 53).	In force: This act has been changed. Current consolidated version: 01/07/2020 ELI: http://data.europa.eu/eli/reg/2016/1628/oj
		Directive 97/68/EC of the European Parliament and of the Council of 16 December 1997 on the approximation of the laws of the Member States relating to measures against the emission of gaseous and particulate pollutants from internal combustion engines to be installed in non-road mobile machinery (OJ EC L 59, 27.2.1998, p. 1).	No longer in force, Date of end of validity: 31/12/2016; Repealed by 32016R1628. Latest consolidated version: 06/10/2016 ELI: http://data.europa.eu/eli/dir/1997/68/oj
		(See however Article 64 of Regulation (EU) 2016/1628).	
		Directive 2004/26/EC of the European Parliament and of the Council of 21 April 2004 amending Directive 97/68/EC on the approximation of the laws of the Member States relating to measures against the emission of gaseous and particulate pollutants from internal combustion engines to be installed in non-road mobile machinery (OJ EU L 146, 30.4.2004, p. 1).	No longer in force, Date of end of validity: 31/12/2016; Implicitly repealed by 32016R1628 ELI: http://data.europa.eu/eli/dir/2004/26/oj
	Sea and inland waterway	Regulation (EU) No 1177/2010 of the European Parliament and of the Council of 24 November 2010 concerning the rights of passengers when travelling by sea and inland waterway and amending Regulation (EC) No 2006/2004 (OJ EU L 334, 17.12.2010, p. 1).	
Environment	Assessment of effects	Directive 2011/92/EU of the European Parliament and of the Council of 13 December 2011 on the assessment of the effects of certain public and private projects on the environment (OJ EU L 26, 28.1.2012, p. 1)	In force: This act has been changed. Current consolidated version: 15/05/2014 ELI: http://data.europa.eu/eli/dir/2011/92/oj

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EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
		and the Convention on Environmental Impact Assessment in a Transboundary Context of 1991 (Espoo Convention). All projects falling under the scope of this Treaty will be subject to an environmental impact assessment in line with Union standards. In addition, transboundary aspects should be addressed in line with the requirements of the Espoo Convention.	
		Directive 2001/42/EC of the European Parliament and of the Council of 27 June 2001 on the assessment of the effects of certain plans and programmes on the environment (OJ EC L 197, 21.7.2001, p. 30)	
		and the Protocol on strategic Environmental Assessment to the Espoo Convention (SEA protocol). All plans and programmes in the field of transport will, where applicable, be subject to an environmental assessment similar to that provided for in Directive 2001/42/EC. In addition, transboundary aspects should be addressed in line with the requirements of the SEA protocol to the Espoo Convention.	
	Conservation	Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ EC L 206, 22.7.1992, p. 7).	In force: This act has been changed. Current consolidated version: 01/07/2013 ELI: http://data.europa.eu/eli/dir/1992/43/oj
		If a project is likely to affect sites of nature conservation importance, an appropriate nature conservation assessment shall be made, equivalent to that provided for in Article 6 of Directive 92/43/EEC.	
	Fuels	Directive 98/70/EC of the European Parliament and of the Council of 13 October 1998 relating to the quality of petrol and diesel fuels and amending Council Directive 93/12/EEC (OJ EC L 350, 28.12.1998, p. 58).	In force: This act has been changed. Current consolidated version: 24/12/2018 ELI: http://data.europa.eu/eli/dir/1998/70/oj
		Directive (EU) 2016/802 of the European Parliament and of the Council of 11 May 2016 relating to a reduction in the sulphur content of certain liquid fuels (OJ EU L 132, 21.5.2016, p. 58).	
	Water policy	Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy (OJ EC L 327, 22.12.2000, p. 1).	In force: This act has been changed. Current consolidated version: 20/11/2014 ELI: http://data.europa.eu/eli/dir/2000/60/oj
		All transport projects on navigation falling under the scope of this Treaty should be developed and implemented in line with Article 4(7) of Directive 2000/60/EC. All transport projects on navigation falling under the scope of this Treaty should, where applicable, be carried out in line with the Joint Statement on Inland Navigation and Environmental Sustainability in the Danube River Basin as endorsed by the International Commission for the Protection of the Danube river (ICPDR), Danube Commission and Sava Commission.	

TRANSPORT COMMUNITY

EU Acquis Compliance Matrix

Sector	Regulatory area	Legislation (at the time of the Transport Community Treaty)	Legislation Updates
Public Procurement	Review procedures	Council Directive 89/665/EEC of 21 December 1989 on the coordination of the laws, regulations and administrative provisions relating to the application of review procedures to the award of public supply and public works contracts (OJ EC L 395, 30.12.1989, p. 33).	In force: This act has been changed. Current consolidated version: 17/04/2014 ELI: http://data.europa.eu/eli/dir/1989/665/oj
		Council Directive 92/13/EEC of 25 February 1992 coordinating the laws, regulations and administrative provisions relating to the application of Community rules on the procurement procedures of entities operating in the water, energy, transport and telecommunications sectors (OJ EC L 76, 23.3.1992, p. 14).	In force: This act has been changed. Current consolidated version: 17/04/2014 ELI: http://data.europa.eu/eli/dir/1992/13/oj
	Procurement procedures	Directive 2014/23/EU of the European Parliament and of the Council of 26 February 2014 on the award of concession contracts (OJ EU L 94, 28.3.2014, p. 1).	In force: This act has been changed. Current consolidated version: 01/01/2020 ELI: http://data.europa.eu/eli/dir/2014/23/oj
		Directive 2014/24/EU of the European Parliament and of the Council of 26 February 2014 on public procurement and repealing Directive 2004/18/EC (OJ EU L 94, 28.3.2014, p. 65).	In force: This act has been changed. Current consolidated version: 01/01/2020 ELI: http://data.europa.eu/eli/dir/2014/24/oj
		Directive 2014/25/EU of the European Parliament and of the Council of 26 February 2014 on procurement by entities operating in the water, energy, transport and postal services sectors and repealing Directive 2004/17/EC (OJ EU L 94, 28.3.2014, p. 243).	In force: This act has been changed. Current consolidated version: 01/01/2020 ELI: http://data.europa.eu/eli/dir/2014/25/oj
		Commission Implementing Regulation (EU) 2015/1986 of 11 November 2015 establishing standard forms for the publication of notices in the field of public procurement and repealing Implementing Regulation (EU) No 842/2011 (OJ EU L 296, 12.11.2015, p. 1).	In force: This act has been changed. Current consolidated version: 12/11/2015 ELI: http://data.europa.eu/eli/reg_impl/2015/1986/oj
	Public services	Regulation (EC) No 1370/2007 of the European Parliament and of the Council of 23 October 2007 on public passenger transport services by rail and by road and repealing Council Regulations (EEC) Nos 1191/69 and 1107/70 (OJ EU L 315, 3.12.2007, p. 1).	In force: This act has been changed. Current consolidated version: 24/12/2017 ELI: http://data.europa.eu/eli/reg/2007/1370/oj

Appendix B: Data availability and format

Regional Stakeholders - Albania

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
Ministry	Ministry of Infrastructure and Energy	https://www.infrastruktura.gov.al/	
Roads/ Road Safety	Transport Institute	http://ital.gov.al/	
	Ministry of Infrastructure and Energy Dangerous Goods	https://www.infrastruktura.gov.al/	
	Albanian Roads Authority	https://www.arrsh.gov.al/	
Railways	Albanian Railways (Hekurudha Shqiptare H.SH.)	http://www.hsh.com.al/	
Sea	Ministry of Infrastructure and Energy General Maritime Directorate of Albania (GMD)	https://www.infrastruktura.gov.al/	
	Vlore Seaport Company	https://www.portivlore.com/	
	Duress Port Authority	https://www.duressport.al/	
Air	Albanian Civil Aviation Authority	http://www.aac.gov.al	
	Tirana International Airport	https://www.tirana-airport.com/	
Border Crossings	Ministry of Finance General Directorate of Customs	http://www.dogana.gov.al	
	Ministry of Interior Directorate for Border Police and Migration	https://mb.gov.al/	
Geospatial Information	State Authority for Geospatial State Cadastral Agency	https://geoportal.asig.gov.al/	
EU Acquis	Ministry for Europe and Foreign Affairs	https://punetejashtme.gov.al/	
Freight Terminals	Albanian National Association of International Road Transporters or the Association (ANALTIR)	http://www.analtir.org/	

Status

	Stakeholder contacted
	No contact has been established yet

Regional Stakeholders - Bosnia and Herzegovina

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
FEDERATION			
Ministry	Ministry of Communications and Transport	http://www.mkt.gov.ba/	
Roads/ Road Safety	Roads of the Federation of Bosnia and Herzegovina		
	Public Company Motorways of the Federation of Bosnia and Herzegovina JP Autoceste FBiH d.o.o. Mostar		
Railways	Railways of the Federation of Bosnia and Herzegovina Željeznice Federacije Bosne i Hercegovine (ŽFBiH)	https://www.zfbh.ba	
	Ministry of Communications and Transport Regulatory Board of Railways BiH	https://www.rzbih.org	
	Bosnia and Herzegovina Railways Public Corporation	https://www.bhzjk.ba	
Inland Waterways	Public Company "Port of Brcko" Brcko District BiH	http://www.lukabrcko.ba/o-nama/	
	"Port of Bosanski Samac Joint Stock Company Cargo Transport Center Luka Šamac"		
Air	Directorate of Civil Aviation BH DCA	www.bhdca.gov.ba	
	Sarajevo Airport	https://www.sarajevo-airport.ba/	
Border Crossings	Ministry of Security Border Police	http://www.msb.gov.ba/	
	Indirect Taxation Authority of Bosnia and Herzegovina	http://www.uino.gov.ba/	
Geospatial Information	Federal Administration for Geodetic and Real Property Affairs	http://www.katastar.ba/geoportal	
EU Acquis	Ministry of Communications and Transport of Bosnia and Herzegovin	http://www.mkt.gov.ba/	
Dangerous Goods	Federal Ministry of Interior		
Freight Terminals	Foreign Trade Chamber of Bosnia and Herzegovina	https://www.komorabih.ba/	
REPUBLIKA SPRSKA			
Ministry	Ministry of Transport and Communications		
Roads/ Road Safety	Roads of Republic Srpska Autoputevi Republike Srpske	https://autoputevirs.com/	
	Ministry of Transport and Communications Traffic Safety Agency of the Republika Srpska	https://www.absrs.org/	
Railways	Republika Srpska Railways Željeznice Republike Srpske (ŽRS)	https://www.zrs-rs.com	
Air	Banja Luka Airpot	https://www.bnx.aero/	
Dangerous Goods	Ministry of Interior of the Republic of Srpska Coordination Unit, Police Support Authority		

Status

	Stakeholder contacted
	No contact has been established yet

Regional Stakeholders - Kosovo

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
Ministry	Ministry of Infrastructure and Transportation	https://www.mit-ks.net/	
Roads/ Road Safety	Ministry of Infrastructure Department of Road Infrastructure Department of Road Transport	https://www.mit-ks.net/	
Railways	Kosovo Railways "TRAINKOS" JSC	https://www.trainkos.com/	
	Kosovo Railway Infrastructure "INFRAKOS" JSC	http://infrakos.com/	
	Railway Regulatory Authority	http://arh-ks.org/	
	Ministry of Infrastructure and Transportation	https://www.mit-ks.net/	
Air	Civil Aviation Authority Air Navigation Services (ANS) Department	https://www.caa-ks.org/	
Border Crossings	Ministry of Internal Affairs Kosovo Police Department of Border	https://www.kosovopolice.com/en/departments/department-of-border/	
	Kosovo Customs		
Geospatial Information	Kosovo Cadastral Agency	http://geoportal.rks-gov.net/	
EU Acquis	Ministry of Infrastructure and Transportation Legal Department	https://www.mit-ks.net/	
Dangerous Goods	Ministry of Infrastructure		

Status

	Stakeholder contacted
	No contact has been established yet

Regional Stakeholders - Montenegro

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
Ministry	Ministry of Capital Investments Directorate for Capital Investments	https://mki.gov.me/	
Roads/ Road Safety	Ministry of Capital Investments Directorate for Road Traffic	https://mki.gov.me/	
	Ministry of Capital Investments Directorate for State Roads		
	Monteput d.o.o.	http://monteput.me/	
	Traffic Directorate Uprava za Saobracaj		
Railways	Ministry of Capital Investments Directorate for Railway	https://mki.gov.me/	
	Railway Authority of Montenegro (DZZCG)	https://dzzcg.me	
	Railway Transport of Montenegro (ŽPCG)	http://www.zcg-prevoz.me/	
	Railway Infrastructure of Montenegro (ŽICG)	http://www.zicg.me/	
	Montecargo	http://www.montecargo.me/	
Inland Waterways	Ministry of capital investments Directorat for maritime affairs and inland waterways	https://mki.gov.me/	
Sea	Port of Bar	https://www.lukabar.me/	
	Ministry of capital investments Directorat for maritime affairs and inland waterways	https://mki.gov.me/	
	Administration for Maritime Safety and Port Management	www.ups.gov.me	
Air	Ministry of Capital Investments Directorate for Air Transport	https://mki.gov.me/	
	Civil Aviation Agency	www.caa.me	
	Airports of Montenegro SC Podgorica Airport Tivat Airport	https://montenegroairports.com/	
Border Crossings	Ministry of Internal Affairs Border Police Department		
	Customs Administration	https://upravacarina.gov.me/	
Geospatial Information	Real estate administration of Montenegro	http://www.geoportal.co.me/	
EU Acquis	European Integration Office	http://www.esv.gov.me	

Regional Stakeholders - Montenegro

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
Dangerous Goods	Ministry of Interior		
	Ministry of Capital investments		

Status

	Stakeholder contacted
	No contact has been established yet

Regional Stakeholders - North Macedonia

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
Ministry	Ministry of Transport and Communications	http://www.mtc.gov.mk/	
Roads/ Road Safety	Public Enterprise for State Roads	http://www.roads.org.mk/	
Railways	Macedonian Railways Transport JSC Skopje	http://www.mztransportad.com.mk	
	Macedonian Railways - Infrastructure	https://mzi.mk/	
	Regulatory Agency for Railways	https://arpz.mk/	
	Ministry of Transport and Communications Railways Department	http://www.mtc.gov.mk/	
	Ministry of Transport and Communications Railway Safety Administration	http://www.mtc.gov.mk/	
Air	Civil Aviation Agency	www.caa.gov.mk	
	TAV Airports	http://skp.airports.com.mk/	
Border Crossings	Ministry of Internal Affairs Department of Border Affairs and Migration Border Police	https://mvr.gov.mk/profilepage/sektor-za-granichni-raboti-i-migracii	
Geospatial Information	Agency for Real Estate Cadastre National Spatial Data Infrastructure Department	http://nipp.katastar.gov.mk/	
EU Acquis	Secretariat for European Affairs	https://www.sep.gov.mk/	
Dangerous Goods	Ministry of Transport and Communications	http://www.mtc.gov.mk/	
Freight Terminals	AMERIT	https://amerit.org.mk/	
	Makosped	http://www.makosped.com.mk/en/index.php	
	Fersped	https://fersped.si/en/	
	Karaorman AD Skopje	https://karaorman.com.mk/	
	DB Schenker DOOEL	https://www.dbschenker.com/mk-en	

Regional Stakeholders - North Macedonia

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
	Skopje Container Terminal- COSCO group	http://lines.coscoshipping.com/home/Contact/global/countryList/more/Europe/Macedonia/Skopje/	
	DENI international	http://www.deniint.com.mk/?lang=en	

Status

	Stakeholder contacted
	No contact has been established yet

Regional Stakeholders - Serbia

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
Ministry	Ministry of Construction, Transport and Infrastructure	https://www.mgsi.gov.rs/	
Roads/ Road Safety	Public Enterprise Roads of Serbia	https://www.putevi-srbije.rs/	
	Ministry of Construction, Transport and Infrastructure	https://www.mgsi.gov.rs/	
	Road Traffic Safety Agency		
Railways	Serbia Train JSC - Railway Passenger Transport	https://www.srbvoz.rs/	
	Serbian Railways AD	http://www.zeleznicesrbije.com/	
	Serbian Railway Infrastructure JSC	https://infrazs.rs/	
	Serbia Cargo Ministry of Construction, Transport and Infrastructure	https://srbcargo.rs/ https://www.mgsi.gov.rs/	
	Railway Directorate		
Inland Waterways	Ministry of Construction, Transport and Infrastructure Directorate for Inland Waterways		
	Port Governance Agency	http://www.aul.gov.rs/	
	Port of Beograd	http://www.lukabeograd.com/	
	DP World Novi Sad	https://www.dpworld.com/novi-sad	
	International Sava River Basin Commission	http://savacommission.org/	
Air	Ministry of Construction, Transport and infrastructure Department for Air Traffic and Transport of Dangerous Goods	https://www.mgsi.gov.rs/	
	Civil Aviation Directorate	www.cad.gov.rs	
	Belgrade Airport	https://beg.aero/	
	Airports of Serbia Ltd Nis Airport Morava Airport (Kraljevo)	www.aerodromisrbije.rs	
Border Crossings	Ministry of Interior, General Police Directorate Border Police Directorate		
	Ministry of Finance Customs Administration	https://www.carina.rs/	
Geospatial Information	Republic Geodetic Authority	https://geosrbija.rs/	

Regional Stakeholders - Serbia

Project Name	Technical Assistance for the Development of the Transport Community Information System

Sector	Institution	Website	Status
EU Acquis	Ministry of European Integration	https://www.mei.gov.rs/	
Dangerous Goods	Ministry of Construction, Transport and Infrastructure	https://www.mgsi.gov.rs/	
Freight Terminals	Ministry of Construction, Transport and Infrastructure	https://www.mgsi.gov.rs/	

Status

	Stakeholder contacted
	No contact has been established yet

APPENDIX B.B - ALBANIA

Notes from stakeholders' engagement and pending issues

a. **Roads**
    i. The Albanian Road Authority is currently developing a Road Asset Management System (RAMS). It is expected to become operational in 2022.
    ii. The Albanian Road Authority is also currently developing a Contract Management System (CMS) but a completion date has not been set.
    iii. The classification of the road network per section in regard to Road Safety was completed in May 2021.
    iv. The Project Implementation Unit in the Ministry of Infrastructure and Energy is responsible for Road Concessions

b. **Road Safety**
    i. Information available from the General Directorate of State Police but is also processed by the Transport Institute

c. **Seaports**
    i. Project related data information only available from the Port Authorities
    ii. The Operations data comes from the ports on request

d. **Pending Issues**
    i. During the mission, it was not made possible to engage with the stakeholders from the following sectors:
        1. Border Crossings
        2. Freight Terminals
        3. Geospatial Data
        4. Road Safety
    ii. For Railways the PM questionnaire has not been discussed, due to limited availability of the stakeholders.
    iii. For Seaports the PM questionnaires have not been discussed. The information/ data is to be provided by the ports and the Transport Institute.

APPENDIX B.B – BOSNIA AND HERZEGOVINA

Notes from stakeholders' engagement and pending issues

1. **Federation**

    a. **Border Crossings**
        i. Border Police in BiH is unified and oversees all BCPs in the RP - covers all districts and entities.
        ii. Internal application for border checks is available however it relates only to official records, checks of persons and vehicles (i.e. how many people crossed the border at the state crossing).
        iii. For vehicles, there is no automatic license plate reader. It should be implemented and operational by the end of 2021.

    b. **Road Safety**
        i. Road safety inspections have been performed for secondary roads. They are planned to be performed for the main roads as part of a project under the World Bank.

    c. **Pending Issues**

        i. During the mission, it was not made possible to engage with the stakeholders from the following sectors:
            1. Airports
            2. Dangerous Goods
            3. EU Acquis
            4. Geospatial Data
            5. Railways
            6. Roads & Road Safety

2. **Republika Srpska**

    a. **Roads/ Road Safety**
        i. All required data for Roads exists and will be available in a GIS database which currently is not fully operational because there is still data to be added. It is not used for analysis purposes. The database is expected to be operational by the end of 2021.

    b. **Pending Issues**
        i. During the mission, it was not made possible to engage with the stakeholders from the following sectors:
            1. Airports
            2. EU Acquis
            3. Geospatial Data
            4. Railways

APPENDIX B.B – KOSOVO

Notes from stakeholders' engagement and pending issues

a. **Airports**
    i. Podgorica Airport is under a PPP contract and financial information might not be publicly available.
    ii. The CAA would prefer to be the sole source of information.

b. **Border Crossings**
    i. All information is provided automatically to CEFTA.
    ii. CEFTA could be used as an alternative source of information for Border Crossings (see section 3.3 of the report).

c. **Pending Issues**
    i. During the mission, it was not made possible to engage with the stakeholders from the following sectors:
        1. EU Acquis.
        2. Freight Terminals.
        3. Geospatial Data.

APPENDIX B.B – NORTH MACEDONIA

Notes from stakeholders' engagement and pending issues

a. **Airports**
    i. TAV Airports is the primary source of information. They provide all the data for NPM to the Ministry of Transport through semi-annual reports (including KPIs).
    ii. All financial data and PM data are considered to be confidential. It is up to the ministry of Transport to decide if they share this information.

b. **EU Acquis**
    i. North Macedonia has a DB for monitoring the EU Acquis integration. The DB is fully functional, but they have identified upgrading and additional functionality requirements and are planning to issue a tender. The DB and data are available only in Macedonian.
    ii. On 22 June 2021 the 16th revision of the EU Acquis Integration Monitoring Document is to be published. It includes legislative annex that identifies the laws that are due for review in order to integrate the EU Acquis.
    iii. It is not certain if they can automatically share the information

c. **Geospatial Data**
    i. The Agency charges a fee for the data. The request shall go through the Ministry of Transport in order to avoid charges.
    ii. All maps are photogrammetric.
    iii. Base maps are from 2004 but they have done a survey in 2017 and up to now they have updated 70% of the maps.

d. **Railways**
    i. Operations Data is available only from station to station (not including stops)
    ii. Railway Safety: The body for accidents has not been established yet.
    iii. They have RIMS but it is populated with 2007-2008 data. It is based on SQL (C++). Developed by MERMEC Italy.

e. **Roads**
    i. They have a WEB GIS application (part of RAMS) that has been developed 3-5 years ago. They plan to update every 5 years but no update yet.
    ii. They have a contractor for surveys. Last IRI survey completed in 2019.
    iii. They have ownership of the data.

f. **Road Safety**
    i. Currently all the data comes from the Ministry of Internal Affairs.

ii. The Ministry of Transport is in the process of creating a Road Safety Observatory similar to the one in Serbia

g. **Socioeconomic Data**
   i. Their data is based on the 2002 census (next census is currently scheduled for September 2021).

h. **Pending Issues**
   i. During the mission, it was not made possible to engage with the stakeholders from the following sectors:
      1. Freight Terminals
      2. Border Crossings

APPENDIX B.B – MONTENEGRO

Notes from stakeholders' engagement and pending issues

a. **Airports**
    i. Air traffic control in Montenegro is under SMATSA (Serbia And Montenegro Air Traffic Services)
    ii. Airports PM questionnaire – They don't have any recent projects and for the future, they are in the process of tendering the Podgorica Airport for concession. The PIU (to be established) for the project will be the source of all information regarding projects.

b. **Dangerous Goods**
    i. Ministry of Transportation responsible for:
        1. Seaports
        2. Rail
    ii. Ministry of Internal Affairs responsible for:
        1. Roads
        2. Border Crossings

    They issue monthly permits in paper format only.

c. **Railways**
    i. All information is available from the Railways Directorate of the Ministry, but the actual source of information is the Railway Infrastructure of Montenegro (ZICG).

d. **Roads**
    i. The Directorate for State Roads has a GIS DB.
        1. Zero Scan performed in 2018.
        2. The DB is in SQL4 and was developed by an Italian company (no further details available during the meeting)
        3. The DB is operational, but they face some minor issues. They are currently updating it manually
        4. There may be intellectual property issues regarding connecting the GIS DB with TODIS.
    ii. Counting Stations
        1. They have 52 counting stations operating.
        2. All data is collected in a DB but again there may be legal issues regarding connecting the DB with TODIS

e. **Road Safety**
    i. They have been developing a DB for 3 years now, but limited information is available.

f. **Seaports**
    i. The source of information is the Port of Bar

g. **Pending Issues**
    i. During the mission, it was not made possible to engage with the stakeholders from the following sectors:
        1. Freight Terminals
        2. Geospatial Data

APPENDIX B.B – SERBIA

Notes from stakeholders’ engagement and pending issues

a. **Airports**

   i. Belgrade Airport is under a concession and there are contractual issues for the provision of financial and project related information.

   ii. SMATSA (Serbia and Montenegro Air Traffic Services) is collecting the infrastructure data from all airports in the country and putting them in a common European database. From that database they are extracting the data which is published yearly in AIP - all published data is available in Excel and xml format

   iii. There is a need to define security levels and negotiate with the stakeholders which data could be available due to confidentiality reasons

b. **Freight Terminals**

   i. The ministry is collecting data for only two terminals - Zit (Belgrade Ranzirna) and terminal Batajnica. For those two the Ministry has all required information. For the private terminals data is available only about location and connectivity to railways.

c. **IWW**

   i. The Agency is planning an update of their system

   ii. Daily collection from the Agency. Checking data monthly and delivering data to Ministry quarterly

Albania - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority												On demand	The Ministry confirmed that they will be providing the information, although the CAA is the actual source of the information
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code		Ministry of I&E / CAA		X	X								
	TEN-T Category	Core/ Comprehensive	Ministry of I&E / CAA		X	X								
	Node Name		Ministry of I&E / CAA		X	X								
	Ownership Type	Government/ Private/ Mixed	Ministry of I&E / CAA		X	X								
	Owner #1	Name	Ministry of I&E / CAA		X	X								
	Ownership Percentage	%	Ministry of I&E / CAA		X	X								
	Owner #x	Name	Ministry of I&E / CAA		X	X								
	Ownership Percentage	%	Ministry of I&E / CAA		X	X								
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Type	International/ Domestic	Ministry of I&E / CAA		X	X								
	Activity	Freight/ Passenger/ Passenger and freight	Ministry of I&E / CAA		X	X								
	Condition	Very Good Good Medium Poor Very Poor	Ministry of I&E / CAA		X	X								
	Number of runaways	number	Ministry of I&E / CAA		X	X								
	Number of passenger terminals	number	Ministry of I&E / CAA		X	X								
	IATA Landing Slot Classification	Level 1 (Non-Coordinated Airport) Level 2 (Schedules Facilitated Airport) Level 3 (Coordinated Airport)	Ministry of I&E / CAA		X	X								
	ICAO Airport Classification	Code A (Airplane Wingspan less than 15m; Outer Main Gear Wheel Span less than 4.5m) Code B (Airplane Wingspan from 15m up to less than 24m; Outer Main Gear Wheel Span from 4.5m up to less than 6m) Code C (Airplane Wingspan from 24m up to less than 36m; Outer Main Gear Wheel Span from 6m up to less than 9m)	Ministry of I&E / CAA		X	X								
	ILS Category	I II III A III B III C	Ministry of I&E / CAA		X	X								
	Length of longest runway	meters	Ministry of I&E / CAA		X	X								
	Passenger terminals area	m2	Ministry of I&E / CAA		X	X								
	Apron area	m2	Ministry of I&E / CAA		X	X								
	Declared Capacity	Declared number of aircraft movements that can be	Ministry of I&E / CAA		X	X								
	Apron Capacity	Number of airplanes on the apron at the same time	Ministry of I&E / CAA		X	X								
	Runway Capacity	Flights per hour	Ministry of I&E / CAA		X	X								
	Passenger Capacity	Passengers per year	Ministry of I&E / CAA		X	X								
	Freight Capacity	tons per year	Ministry of I&E / CAA		X	X								
	Rail Connection	yes - integrated to long distance rail network yes - rail shuttle no - other public shuttle no - no public shuttle connection	Ministry of I&E / CAA		X	X								
	Intelligent Transport Systems (ITS)	European air traffic management network (EATMN)	CAA		X	X								
		1. Systems and procedures for airspace management.			X	X								
		2. Systems and procedures for air traffic flow management.			X	X								
		3. Systems and procedures for air traffic services, in particular flight data processing systems, surveillance data processing			X	X								
		4. Communications systems and procedures for ground-to-			X	X								
		5. Navigation systems and procedures.			X	X								
		6. Surveillance systems and procedures.			X	X								
		7. Systems and procedures for aeronautical information			X	X								
		8. Systems and procedures for the use of meteorological			X	X								
		9. Others			X	X								
	Data valid from	year	Ministry of I&E / CAA		X	X								
	Data valid to	year	Ministry of I&E / CAA		X	X								
TEN-T Compliance	Rail Connection	yes/no	Ministry of I&E / CAA		X	X								
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)	Ministry of I&E / CAA		X	X								
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-	Ministry of I&E / CAA		X	X								
	Data valid from	year												
	Data valid to	year												

Albania - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Operations Data	Throughput	number of commercial aircraft movements per year	Ministry of I&E / CAA		X	X								
	Passenger traffic	passengers per year	Ministry of I&E / CAA		X	X								
	Freight traffic	tons of cargo per year	Ministry of I&E / CAA		X	X								
	Type of aircraft movements by type of operation	network carrier	Ministry of I&E / CAA		X	X								
		low cost carrier	Ministry of I&E / CAA		X	X								
		charter	Ministry of I&E / CAA		X	X								
		cargo	Ministry of I&E / CAA		X	X								
	Passenger transit	%	Ministry of I&E / CAA		X	X								
	Arrivals	%	Ministry of I&E / CAA		X	X								
	Data valid for	year	Ministry of I&E / CAA		X	X								
Regular Maintenance	Maintenance cost - Total	Euros per year		X										
	Maintenance cost - Passenger terminals	Euros per year		X										
	Maintenance cost - Freight terminals	Euros per year		X										
	Maintenance cost - Runways	Euros per year		X										
	Source of finance			X										
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	Terminal Building	Ministry of I&E / CAA		X	X								
	Requiring upgrade to increase runway length	Runway Length	Ministry of I&E / CAA		X	X								
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		X										
	CO2 emissions			X										
	NOx emissions			X										
	SO2 emission evolution			X										
	Non-methane hydrocarbons			X										
	Particulate matter (ppm)			X										
	Climate change resilience	number of flooding incidents		X										
		number of closures due to adverse weather conditions												
	Data valid for	year												
Geospatial data	Location of the Airport	Point geometry or x,y coordinates		X										
	Data valid for	year		X										

Albania - data availability and formats

Airports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority												On demand	
	Correspondence Address													The Ministry confirmed that they will be providing the information, although the CAA is the actual source of the information
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code		Ministry of I&E / CAA		X	X								
	TEN-T Category	Core/ Comprehensive	Ministry of I&E / CAA		X	X								
	Node Name		Ministry of I&E / CAA		X	X								
Description of the Project	Project name	Text	Ministry of I&E / CAA		X	X								
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation,	Ministry of I&E / CAA		X	X								
	Length (if linear)	Km/NA	Ministry of I&E / CAA		X	X								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the	Ministry of I&E / CAA		X	X								
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than	Ministry of I&E / CAA		X	X								
Eligibility for TEN-T Project	Rail Connection	yes/no	Ministry of I&E / CAA		X	X								
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)	Ministry of I&E / CAA		X	X								
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-	Ministry of I&E / CAA		X	X								
TEN-T Compliance	Rail connection	Before project implementation (yes/no)	Ministry of I&E / CAA		X	X								
		After project implementation (yes/no)	Ministry of I&E / CAA		X	X								
	Clean fuels availability	Before project implementation (yes/no)	Ministry of I&E / CAA		X	X								
		After project implementation (yes/no)	Ministry of I&E / CAA		X	X								
	Terminal Availability	Before project implementation (yes/no)	Ministry of I&E / CAA		X	X								
		After project implementation (yes/no)	Ministry of I&E / CAA		X	X								
Project Status	Implemented	Project completed and put in operation	Ministry of I&E / CAA		X	X								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.	Ministry of I&E / CAA		X	X								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached),	Ministry of I&E / CAA		X	X								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet	Ministry of I&E / CAA		X	X								
IMPLEMENTED PROJECTS														
Project Timeline	Initial Project Completion Date	On tender issue	Ministry of I&E / CAA		X	X								
	Actual Project Completion Date		Ministry of I&E / CAA		X	X								
Project Funding Sources	National Budget	Euros	Ministry of I&E / CAA		X	X								
	WB	Euros	Ministry of I&E / CAA		X	X								
	EBRD	Euros	Ministry of I&E / CAA		X	X								
	EIB	Euros	Ministry of I&E / CAA		X	X								
	Other IFI	Specify	Ministry of I&E / CAA		X	X								
		Euros	Ministry of I&E / CAA		X	X								
	Concessions	Specify	Ministry of I&E / CAA		X	X								
		Euros	Ministry of I&E / CAA		X	X								
	EU Fund	Specify	Ministry of I&E / CAA		X	X								
		Euros	Ministry of I&E / CAA		X	X								
	Other funding source	Specify	Ministry of I&E / CAA		X	X								
		Euros	Ministry of I&E / CAA		X	X								
Project Documentation	Project Folder Title	(As built documentation or if not available then final design	Ministry of I&E / CAA		X	X								
	Prepared by		Ministry of I&E / CAA		X	X								
	Supervised by		Ministry of I&E / CAA		X	X								
Performance Indicators	Construction period	Forecasted (months)	CAA		X	X								
		Actual (months)												
	CAPEX	Forecasted (Euros)			X	X								
		Actual (Euros)												
	OPEX	Forecasted (Euros per year)			X	X								
		Actual (Euros per year)												
	Maintenance cost	Forecasted (Euros per year)			X	X								
		Actual (Euros per year)												
	Interest During Construction	%			X	X								
	EBITDA (last year)	Euros			X	X								
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			X	X								
		Actual (Euros per year)												
	Traffic	Throughput - forecasted			X	X								
		Throughput - actual												
		Passenger traffic - forecasted												
		Passenger traffic - actual												
		Freight (tn) - forecasted												
		Freight (tn) - actual												

Albania - data availability and formats

Airports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Shape	Vrml	IFC	Mathcad	Other	Data Collection Frequency - EP	Comments
LIVE PROJECTS														
Project Timeline	Tender Start Date (month/ year)	Initially forecasted	Ministry of I&E											
		Current Estimation. Please refer to realistic targets rather	Ministry of I&E		X	X								
		Actual	Ministry of I&E											
	Design Completion Date (month/ year)	Forecasted (on tender issue)	Ministry of I&E											
		Current Estimation. Please refer to realistic targets rather	Ministry of I&E		X	X								
		Actual	Ministry of I&E											
	Project Completion Date (month/ year)	Forecasted (on tender issue)	Ministry of I&E											
		Current Estimation. Please refer to realistic targets rather	Ministry of I&E		X	X								
Project Funding Sources	National Budget	Euros	Ministry of I&E											
		allocated/ agreement signed (yes/no)	Ministry of I&E		X	X								
	WB	Euros	Ministry of I&E											
		allocated/ agreement signed (yes/no)	Ministry of I&E		X	X								
	EBRD	Euros	Ministry of I&E											
		allocated/ agreement signed (yes/no)	Ministry of I&E		X	X								
	EIB	Euros	Ministry of I&E											
		allocated/ agreement signed (yes/no)	Ministry of I&E		X	X								
	Other IFI	Specify	Ministry of I&E											
		Euros	Ministry of I&E		X	X								
		allocated/ agreement signed (yes/no)	Ministry of I&E											
	Concessions	Specify	Ministry of I&E											
		Euros	Ministry of I&E		X	X								
		allocated/ agreement signed (yes/no)	Ministry of I&E											
	EU Fund	Specify	Ministry of I&E											
		Euros	Ministry of I&E		X	X								
		allocated/ agreement signed (yes/no)	Ministry of I&E											
	Other funding source	Specify	Ministry of I&E											
		Euros	Ministry of I&E		X	X								
		allocated/ agreement signed (yes/no)	Ministry of I&E											
Technical Project Status	Pre-Feasibility Study	yes/no	Ministry of I&E		X	X								
	Feasibility Study	yes/no	Ministry of I&E		X	X								
	Concept Design	yes/no	Ministry of I&E		X	X								
	Preliminary Design	yes/no	Ministry of I&E		X	X								
	Detail Design	yes/no	Ministry of I&E		X	X								
	Environmental Impact Assessment	yes/no	Ministry of I&E		X	X								
Project Documentation	Feasibility Study	Title	Ministry of I&E											
		Prepared by	Ministry of I&E		X	X								
		Supervised by	Ministry of I&E											
	Concept Design	Title	Ministry of I&E											
		Prepared by	Ministry of I&E		X	X								
		Supervised by	Ministry of I&E											
	Preliminary Design	Title	Ministry of I&E											
		Prepared by	Ministry of I&E		X	X								
		Supervised by	Ministry of I&E											
	Detail Design	Title	Ministry of I&E											
		Prepared by	Ministry of I&E		X	X								
		Supervised by	Ministry of I&E											
	Environmental Impact Assessment	Title	Ministry of I&E											
		Prepared by	Ministry of I&E		X	X								
		Supervised by	Ministry of I&E											
Social Indicators	Annual Traffic Demand Growth	%	Ministry of I&E		X	X								
	Modal transfer	% (if applicable)	Ministry of I&E		X	X								
	Annual Accident Rate Reduction	% (if applicable)	Ministry of I&E		X	X								
Economic Indicators	EIRR (Economic Internal Rate of Return)	%	Ministry of I&E		X	X								
	NPV (Net Present Value)	Euros	Ministry of I&E		X	X								
	SDR (Social Discount Rate)	%	Ministry of I&E		X	X								
	Project Planning & Design Cost	Euros	Ministry of I&E		X	X								
	Project Construction Cost	Euros	Ministry of I&E		X	X								
	Total Project Cost	Euros	Ministry of I&E		X	X								
Financial Indicators	FIRR (Financial Internal Rate of Return)	%	Ministry of I&E		X	X								
	FNPV (Financial Net Present Value)	Euros	Ministry of I&E		X	X								
	FDR (Financial Discount Rate)	%	Ministry of I&E		X	X								
	WACC (Weighted Average Cost of Capital)	%	Ministry of I&E		X	X								
	First year of profit	year	Ministry of I&E		X	X								
	DSCR (Debt Service Coverage Ratio)	%	Ministry of I&E		X	X								
Environmental Indicators	CO2 emissions	+/- %		X										
	NOx emissions	+/- %		X										
	O2 emission evolution	+/- %		X										
	Non-methane hydrocarbons	+/- %		X										
	Particulate matter (ppm)	+/- %		X										
	Climate Change Resilience	Provide description of the project's effect to the climate		X										
	Protected Natural Areas Affected	km2		X										
Geospatial data	Location of the Airport	Point geometry or x,y coordinates		X										

Albania - data availability and formats

EU Acquis

Category	Parameter	Input	Source	Info N/A	Excel	Word	Other
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of European Integration				
	Correspondence Address						
	Contact Person						
	Position						
	Phone number						
	Email						
EU Acquis Harmonisation	Is the status of EU Acquis harmonisation per individual EU legislation available? (yes/no)			x			
	If yes, then please provide the format this information is available in						
National Legislation	Is the list of National Legislation affected by the EU Acquis harmonisation available?			x			
	If yes, then please provide the format this information is available in						
Reporting	Please provide a list of the Reports you are already producing fo	Tables of Concordance					
		Legal gap analysis (being prepared - estimated delivery date: end of 2021). But it is not complete - only specific/ high priority acts are included. The Ministry of Infrastructure and Enegry is providing the transport related section. The relevant sections for Environment and Public Procurement are being prepared by experts.					
Methodology	Please provide a short description of the methodology you follow for the monitoring of the harmonisation process.			x			

Albania - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Input	Details	Source	Info N/A	Road	Road	Air	Inland	Sea	Rail	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority			Albanian Railways									On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email					x	x						
Localisation	Country Code					x	x						
	TEN-T Category		Core/ Comprehensive			x	x						
	Corridor/ Route					x	x						
	International Route ID					x	x						
	National Route ID					x	x						
	Start Node Name					x	x						
	End Node Name					x	x						
	Start km		Direction A			x	x						
			Direction B			x	x						
	End km		Direction A			x	x						
			Direction B			x	x						
	Status		Planned/ Existing/ Upgrade			x	x						
	Data valid from		year										
	Data valid to		year										
Infrastructure Data	Capacity		trains/ day			x	x						
	Track gauge		750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1602 / 1668			x	x						
	Load gauge		A GAUGE: Total height 3.85 m above t - he rail and 1.28 m on either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle			x	x						
	Condition of track (Operational/ Design Speed)		Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)			x	x						
	Number of tracks		Total (most relevant figures, e.g. if a single track railway of			x	x						
	Traction		Diesel			x	x						
			Electrified			x	x						
	Rail voltage		25 000 Volts, 50Hz 15 000 Volts, 16 2/3 Hz 3 000 Volts, DC 1 500 Volts, DC 750 Volts DC 660 Volts DC 630 Volts DC			x	x						
	Length - Total (km)					x	x						
	Length - Open Track (km)					x	x						
	Length - Tunnels (km)					x	x						
	Length - Bridges over 12m length (km)					x	x						
	Tunnels		number			x	x						
	Level-Crossings		number			x	x						
	Max Design Speed		km per hour			x	x						
	Max Operating Speed		km per hour			x	x						
	Max Longitudinal Gradient (m per km)		Direction A			x	x						
			Direction B			x	x						
	Min radius		meters			x	x						
	Maximum train length		meters			x	x						
	Max Axle load		kN			x	x						
	Signalling Standard					x	x						
	Traffic Management					x	x						
	ERTMS in operation		yes/no			x	x						
	ERTMS level		1 - is designed as an add-on to or overlays a conventional line already equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to			x	x						
	Control & Command System		Specify which system is used to ensure safety and to			x	x						
	Data valid from		year										
	Data valid to		year										

Albania - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Input	Details	Source	Info N/A	Road	Road	Air	Inland	Sea	Rail	Other	Data Collection Frequency - RP
TEN-T Compliance	Electrification		yes/no (Not applicable for isolated networks. Applies to line			x	x						
	Railway Tunnels Compliance		yes/no as per Directive 2014/1303/EC as amended by			x	x						
	Freight Line Speed		yes/no (At least 100km (Only applicable for the freight lines of			x	x						
	Freight Line Axle Load		yes/no (At least 22.5t (Only applicable for the freight lines of			x	x						
	Freight Line Train Length		yes/no (At least 750m (Only applicable for the freight lines of			x	x						
	Track Gauge 1435mm		yes/no (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network			x	x						
	ERTMS Deployment		yes/no (European Train Control System (ETCS) - Not applicable			x	x						
			yes/no (Global System for Mobile communications for			x	x						
	Data valid from		year										
	Data valid to		year										
Operations Data	Passenger Trains		number per 24 hours			x	x						
	Freight Trains		number per 24 hours			x	x						
	Dangerous Goods Freight Trains		number per 24 hours		x								
	Capacity used		% of capacity		x								
	Passenger traffic		number per year			x	x						
			passenger km per year			x	x						
	Freight traffic		tons per year			x	x						
			tkm per year			x	x						
	TEUs		TEU containers per year		x								
	Unitised		% in standard loading units		x								
	Non Unitised		% of bulk and general traffic		x								
	National traffic		% of total traffic		x								
	Average travel time passenger (incl. stops)		long distance trains only		x								
	Average travel time freight (incl. stops)		long distance trains only		x								
	Data valid for		year										
Safety	Number of Incidents		absolute number (as per Directive 2016/798/EU - Railway			x	x						
	Number of Accidents		absolute number (as per Directive 2016/798/EU - Railway			x	x						
	Number of Significant Accidents		absolute number (as per Directive 2016/798/EU - Railway			x	x						
	Number of Serious Accidents		absolute number (as per Directive 2016/798/EU - Railway			x	x						
	Serious Accidents - Number of Serious Injuries		absolute number			x	x						
	Serious Accidents - Number of Fatalities		absolute number			x	x						
	Serious Accidents - Number per place of accident		absolute number (open rail, level crossings, station area)			x	x						
	Serious Accidents - Amount of Material Damage		EUR per year			x	x						
	Serious Accidents - Disruption of traffic		hours per year			x	x						
	Serious Accidents - Indirect damages related to delays		EUR per year			x	x						
	Significant Accidents - Number of Significant Injuries		absolute number			x	x						
	Significant Accidents - Number of Fatalities		absolute number			x	x						
	Significant Accidents - Number per place of accident		absolute number (open rail, level crossings, station area)			x	x						
	Significant Accidents - Amount of Material Damage		EUR per year			x	x						
	Significant Accidents - Disruption of traffic		hours per year			x	x						
	Significant Accidents - Indirect damages related to delays		EUR per year			x	x						
	Data valid for		year										
Regular Maintenance	Maintenance cost - Total		Euros per year per km			x	x						
	Maintenance cost - Total		Euros			x	x						
	Maintenance cost - Infrastructure		Euros per year (rail track, switches and crossings, tunnels,			x	x						
	Maintenance cost - Signalling and telecom system		Euros per year (Maintenance of rail station signalling, automatic block system, automatic and mechanical level			x	x						
	Maintenance cost - Electrification system		Euros per year (Maintenance of catenaries, electric railway			x	x						
	Source of finance					x	x						
	Data valid for		year										
Heavy Maintenance	Requiring heavy maintenance		length of section (km)			x	x						
	Requiring rehabilitation		length of section (km)			x	x						
	Data valid for		year										
Upgrading	Requiring upgrade to increase capacity		length of section (km)			x	x						
	Requiring upgrade (additional track/ new line)		length of section (km)			x	x						
	Data valid for		year										

Albania - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Input	Details	Source	Info N/A	Road	Road	Air	Inland	Sea	Rail	Other	Data Collection Frequency - RP
Environmental Data	Air Pollution		GHG emissions (tons per year for each GHG)		x								
	CO2 emissions				x								
	NOx emissions				x								
	SO2 emission evolution				x								
	Non-methane hydrocarbons				x								
	Particulate matter (ppm)				x								
	Noise		Noise levels along the section		x								
	Climate change resilience		number of flooding incidents		x								
			number of closures due to adverse weather conditions		x								
			number of embankment failures		x								
	Data valid for		year		x								
Geospatial data	Location of Railway Line	*to be provided separately*	Line geometry		x								
	Location of tunnels	*to be provided separately*	Line geometry or Point geometry or x,y coordinates		x								
	Location of bridges over 12m length	*to be provided separately*	Line geometry or Point geometry or x,y coordinates		x								
	Location of Stations	*to be provided separately*	Line geometry or Point geometry or x,y coordinates		x								
	Location of level crossings	*to be provided separately*	Point geometry or x,y coordinates		x								
	Location of serious accidents	*to be provided separately*	Point geometry or x,y coordinates		x								
	Data valid for		year		x								

Albania - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info GP	Excel	Word	GIS	Visio	MS	API	Mobile	Other	Data Collection Frequency - GP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Road Authority of Albania				2022						On demand	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code		Road Authority of Albania		x	x								
	TEN-T Category	Core/ Comprehensive	Road Authority of Albania		x	x								
	Corridor/ Route		Road Authority of Albania		x	x								
	International Route ID		Road Authority of Albania		x	x								
	National Route ID		Road Authority of Albania		x	x								
	Start Node Name		Road Authority of Albania		x	x								
	End Node Name		Road Authority of Albania		x	x								
	Start km	Direction A	Road Authority of Albania		x	x								
		Direction B	Road Authority of Albania		x	x								
	End km	Direction A	Road Authority of Albania		x	x								
		Direction B	Road Authority of Albania		x	x								
	Status	Planned/ Existing/ Upgrade	Road Authority of Albania		x	x								
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Category	Motorways/ Dual Carriageways/ Single Carriageways	Road Authority of Albania		x	x								
	Pavement Condition	1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing	Road Authority of Albania		x	x								
	Lanes	Direction A	Road Authority of Albania		x	x								
		Direction B	Road Authority of Albania		x	x								
	Length - Total (km)	Direction A	Road Authority of Albania		x	x								
		Direction B	Road Authority of Albania		x	x								
	Length - Open Road (km)	Direction A	Road Authority of Albania		x	x								
		Direction B	Road Authority of Albania		x	x								
	Length - Tunnels (km)	Direction A	Road Authority of Albania		x	x								
		Direction B	Road Authority of Albania		x	x								
	Length - Bridges over 12m length (km)	Direction A	Road Authority of Albania		x	x								
		Direction B	Road Authority of Albania		x	x								
	Tunnels	Direction A (absolute number)	Road Authority of Albania		x	x								
		Direction B (absolute number)	Road Authority of Albania		x	x								
	Parking areas	Direction A (absolute number)	Road Authority of Albania		x	x								
		Direction B (absolute number)	Road Authority of Albania		x	x								
	Fuel Stations	Direction A (absolute number)	Road Authority of Albania		x	x								
		Direction B (absolute number)	Road Authority of Albania		x	x								
		Type of fuels (Diesel, Gas, CNG, LNG, Hydrogen, Charging		x										
	Design Speed	km per hour	Road Authority of Albania		x	x								
	Speed limit	km per hour	Road Authority of Albania		x	x								
	Operating Speed	km per hour		x										
	Max Longitudinal Gradient (%)	Direction A	Road Authority of Albania		x	x								
		Direction B	Road Authority of Albania		x	x								
	Max Permitted Weight	per vehicle (tons)	Road Authority of Albania		x	x								
		axle load (kN)	Road Authority of Albania		x	x								
	Capacity	minimum lane capacity per hour (PCUs) for both directions	Road Authority of Albania		x	x								
	Tolled	yes/ no	Road Authority of Albania		x	x								
	Type of Tolls	per km/ per day	Road Authority of Albania		x	x								
	Charging Method	stations/ free flow/ vignette/ GNSS	Road Authority of Albania		x	x								
	Number of Toll Station Lanes	manned/ electronic	Road Authority of Albania		x	x								
	Intelligent Transport Systems (ITS)	yes/no	Road Authority of Albania		x	x								
	Type of ITS	list all ITS installed	Road Authority of Albania		x	x								
	Operation Supervised by Control Centre	yes/ no	Road Authority of Albania		x	x								
	Data valid from	year												
	Data valid to	year												
TEN-T Compliance	TEN-T Requirements Compliant	yes/no as per art. 17.3 (a) and (b) of Regulation 1315/2013	Road Authority of Albania		x	x								
	Alternative Fuels Availability	yes/no as per Directive no. 2014/94/EU	Road Authority of Albania		x	x								
	ITS Compliance	yes/no as per Directive 2010/40/EU	Road Authority of Albania		x	x								
	Tolling Interoperability	yes/no as per Directive 2004/52/EC and Commission Decision	Road Authority of Albania		x	x								
	Safety Compliance	yes/no as per Directive 2008/96/EC	Road Authority of Albania		x	x								
	Road Tunnels Compliance (length >500m)	yes/no as per Directive 2004/54/EC	Road Authority of Albania		x	x								
	Data valid from	year												
	Data valid to	year												

Albania - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info GIS	Excel	Word	CD	Email	SMS	API	Web page	Other	Data Collection Frequency - MP	Comments
Operations Data	Total traffic flow	AADT or vehicles per year	Road Authority of Albania		X	X								
	Passenger cars	AADT or vehicles per year	Road Authority of Albania		X	X								
	Busses	AADT or vehicles per year	Road Authority of Albania		X	X								
	Trucks	AADT or vehicles per year	Road Authority of Albania		X	X								
	International traffic	% of AADT or total traffic flow		X										
	Percentage of HGVs	% of AADT or total traffic flow	Road Authority of Albania		X	X								
	Freight traffic flow	tons per year		X										
		vehicles per year	Road Authority of Albania		X	X								
	Dangerous goods vehicles	Number per year or % of AADT or total traffic flow		X										
	Passengers	number		X										
	Average travel time (PCs)	In minutes		X										
	Average travel time (HVGs)	In minutes		X										
	Toll Rate Currency	Currency (e.g. Euro)	Ministry of Infrastructure and Energy											Information provided by Road Authority of Albania
	Toll Rate Passenger Cars	per km (e.g. Euro per km)	Ministry of Infrastructure and Energy											
		per day (e.g. Euro per day)	Ministry of Infrastructure and Energy											
	Toll Rate Heavy Good Vehicles	per km (e.g. Euro per km)	Ministry of Infrastructure and Energy											
		per day (e.g. Euro per day)	Ministry of Infrastructure and Energy											
	% toll evasion	% of vehicles												
	Data valid for	year												
Road Safety	Total number of road traffic crash	absolute number	General Directorate of State Police											Information provided by Road Authority of Albania
	Road traffic crash with serious injuries only	absolute number	General Directorate of State Police											
	Fatal road traffic crash	absolute number	General Directorate of State Police											
	Chainage (km position) of road traffic crashes with injury/ fatality		General Directorate of State Police											
	Total injured	number of persons	General Directorate of State Police											
	Seriously injured	number of persons	General Directorate of State Police											
	Fatalities	number of persons	General Directorate of State Police											
	Road Safety Audit carried out at design stage	yes/ no	General Directorate of State Police											
	Section ranked as high/risk	yes/ no	General Directorate of State Police											
	Road Safety Inspections carried out	Total number	General Directorate of State Police											
		Corresponding dates	General Directorate of State Police											
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per km per year	Road Authority of Albania		X	X								
	Maintenance cost - Open Road	Euros per km per year	Road Authority of Albania		X	X								
	Maintenance cost - Tunnel	Euros per km per year	Road Authority of Albania		X	X								
	Maintenance cost - Bridges	Euros per km per year	Road Authority of Albania		X	X								
	Heavy/ Periodic Maintenance Cost	Euros per km per year (Activities on a section of road at regular and relatively long intervals, aims to preserve the	Road Authority of Albania		X	X								
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention, such as collapsed culverts or	Road Authority of Albania		X	X								
	Winter Maintenance Cost	Euros per km per year	Road Authority of Albania		X	X								
	Routine Maintenance Cost	Euros per km per year (The rest of maintenance cost for the	Road Authority of Albania		X	X								
	Source of finance		Road Authority of Albania		X	X								
	Data valid for	year												
Heavy/ Periodic Maintenance Requirements	Requiring rehabilitation - Open Road	length of section (km)	Road Authority of Albania		X	X								
	Requiring rehabilitation - Tunnel	length of section (km)	Road Authority of Albania		X	X								
	Requiring rehabilitation - Bridges	length of section (km)	Road Authority of Albania		X	X								
	Requiring heavy/ periodic maintenance - Open Road	length of section (km)	Road Authority of Albania		X	X								
	Requiring heavy/ periodic maintenance - Tunnel	length of section (km)	Road Authority of Albania		X	X								
	Requiring heavy/ periodic maintenance - Bridges	length of section (km)	Road Authority of Albania		X	X								
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity - Open Road	length of section (km)	Road Authority of Albania		X	X								
	Requiring upgrade to increase capacity - Tunnel	length of section (km)	Road Authority of Albania		X	X								
	Requiring upgrade to increase capacity - Bridges	length of section (km)	Road Authority of Albania		X	X								
	Data valid for	year												
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		X										
	CO2 emissions			X										
	NOx emissions			X										
	SO2 emission evolution			X										
	Non-methane hydrocarbons			X										
	Particulate matter (ppm)			X										
	Noise	Noise levels along the section		X										
	Climate change resilience	number of flooding incidents		X										
		number of closures due to adverse weather conditions		X										
		number of embankment failures		X										
		number of winter maintenance days		X										
	Data valid for	year												
Geospatial data	Location of Road	Line geometry	Road Authority of Albania				X							
	Location of tunnels	Line geometry or Point geometry or x,y coordinates	Road Authority of Albania				X							
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates	Road Authority of Albania				X							
	Location of parking areas	Line geometry or Point geometry or x,y coordinates	Road Authority of Albania				X							
	Location of fuel stations	Point geometry or x,y coordinates	Road Authority of Albania				X							
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates	Transport Institute				X							
	Data valid for	year												

Albania - data availability and formats

Roads - Projeot Monitoring

Category	Parameter	Details	Source	GIS MS	Excel	Word	GIS	WEB	MIS	API	Mobile App	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Road Authority of Albania										On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code		Road Authority of Albania		x	x							
	TEN-T Category	Core/ Comprehensive	Road Authority of Albania		x	x							
	Corridor/ Route	Before project implementation	Road Authority of Albania		x	x							
		After project implementation			x	x							
	International Route ID	Before project implementation	Road Authority of Albania		x	x							
		After project implementation			x	x							
	National Route ID	Before project implementation	Road Authority of Albania		x	x							
		After project implementation			x	x							
	Start Node Name	Before project implementation	Road Authority of Albania		x	x							
		After project implementation			x	x							
	End Node Name	Before project implementation	Road Authority of Albania		x	x							
		After project implementation			x	x							
	Start km	Direction A - Before project implementation	Road Authority of Albania		x	x							
		Direction A - After project implementation			x	x							
		Direction B - Before project implementation			x	x							
		Direction B - After project implementation			x	x							
	End km	Direction A - Before project implementation	Road Authority of Albania		x	x							
		Direction A - After project implementation			x	x							
		Direction B - Before project implementation			x	x							
		Direction B - After project implementation			x	x							
Description of the Project	Project name	Text	Road Authority of Albania		x	x							
	Type of foreseen intervention	New infrastructure Reconstruction/rehabilitation Maintenance Horizontal/policy measure	Road Authority of Albania		x	x							
	Length (if linear)	Km/NA	Road Authority of Albania		x	x							
	Lanes	Direction A	Road Authority of Albania		x	x							
		Direction B			x	x							
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)	Road Authority of Albania		x	x							
Eligibility for TEN-T Project	Motorway/expressway	yes/no (new construction)	Road Authority of Albania		x	x							
	Other high-quality roads	yes/no (new construction)	Road Authority of Albania		x	x							
	Road rehabilitation/reconstruction	yes/ no (targeting capacity increase or road surface quality upgrade from very poor/poor/medium condition (IRI>2,84 to good/very good conditions))	Road Authority of Albania		x	x							
	Alternative fuels	yes/no	Road Authority of Albania		x	x							
	ITS compliance	yes/no	Road Authority of Albania		x	x							
	Tolling interoperability	yes/no	Road Authority of Albania		x	x							
	Safety compliance	yes/no	Road Authority of Albania		x	x							
	Road tunnels compliance	yes/no	Road Authority of Albania		x	x							
TEN-T Compliance	TEN-T Requirements Compliant	Before project implementation (yes/no)	Road Authority of Albania		x	x							
		After project implementation (yes/no)			x	x							
	Alternative Fuels Availability	Before project implementation (yes/no)	Road Authority of Albania		x	x							
		After project implementation (yes/no)			x	x							
	ITS Compliance	Before project implementation (yes/no)	Road Authority of Albania		x	x							
		After project implementation (yes/no)			x	x							
	Tolling Interoperability	Before project implementation (yes/no)	Road Authority of Albania		x	x							
		After project implementation (yes/no)			x	x							
	Safety Compliance	Before project implementation (yes/no)	Road Authority of Albania		x	x							
		After project implementation (yes/no)			x	x							
	Road Tunnels Compliance (length >500m)	Before project implementation (yes/no)	Road Authority of Albania		x	x							
		After project implementation (yes/no)			x	x							

Albania - data availability and formats

Roads - Projeot Monitoring

Category	Parameter	Details	Source	GIS MS	Excel	Word	GIS	WEB	MIS	API	Mobile App	Other	Data Collection Frequency - RP
Project Status	Implemented	Project completed and put in operation	Road Authority of Albania		x	x							
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.	Road Authority of Albania		x	x							
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.	Road Authority of Albania		x	x							
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.	Road Authority of Albania		x	x							
IMPLEMENTED PROJECTS													
Project Timeline	Initial Project Completion Date	On tender issue			x	x							
	Actual Project Completion Date				x	x							
Project Funding Sources	National Budget	Euros			x	x							
	WB	Euros			x	x							
	EBRD	Euros			x	x							
	EIB	Euros			x	x							
	Other IFI	Specify	Road Authority of Albania		x	x							
		Euros			x	x							
	Concessions	Specify			x	x							
		Euros			x	x							
	EU Fund	Specify			x	x							
		Euros			x	x							
	Other funding source	Specify			x	x							
		Euros			x	x							
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)	Road Authority of Albania		x	x							
	Prepared by		Road Authority of Albania		x	x							
	Supervised by		Road Authority of Albania		x	x							
Performance Indicators	Construction period	Forecasted (months)	Road Authority of Albania		x	x							
		Actual (months)			x	x							
	CAPEX	Forecasted (Euros)	Road Authority of Albania		x	x							
		Actual (Euros)			x	x							
	OPEX	Forecasted (Euros per year)	Road Authority of Albania		x	x							
		Actual (Euros per year)			x	x							
	Maintenance cost	Forecasted (Euros per year)	Road Authority of Albania		x	x							
		Actual (Euros per year)			x	x							
	Interest During Construction	%	Road Authority of Albania		x	x							
	EBITDA (last year)	Euros	Road Authority of Albania		x	x							
	Revenue (If fare/toll collected)	Forecasted (Euros per year)	Road Authority of Albania		x	x							
		Actual (Euros per year)			x	x							
	Traffic	Passenger cars - forecasted	Road Authority of Albania		x	x							
		Passenger cars - actual			x	x							
		Busses - forecasted			x	x							
		Busses - actual			x	x							
		Trucks - forecasted			x	x							
		Trucks - actual			x	x							

Albania - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
LIVE PROJECTS													
Project Timeline	Tender Start Date (month/ year)	Initially forecasted	Road Authority of Albania			x	x						
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible				x	x						
		Actual				x	x						
	Design Completion Date (month/ year)	Forecasted (on tender issue)	Road Authority of Albania			x	x						
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible				x	x						
		Actual				x	x						
	Project Completion Date (month/ year)	Forecasted (on tender issue)	Road Authority of Albania			x	x						
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible				x	x						
Project Funding Sources	National Budget	Euros	Road Authority of Albania			x	x						
		allocated/ agreement signed (yes/no)				x	x						
	WB	Euros	Road Authority of Albania			x	x						
		allocated/ agreement signed (yes/no)				x	x						
	EBRD	Euros	Road Authority of Albania			x	x						
		allocated/ agreement signed (yes/no)				x	x						
	EIB	Euros	Road Authority of Albania			x	x						
		allocated/ agreement signed (yes/no)				x	x						
	Other IFI	Specify	Road Authority of Albania			x	x						
		Euros				x	x						
		allocated/ agreement signed (yes/no)				x	x						
	Concessions	Specify	Road Authority of Albania			x	x						
		Euros				x	x						
		allocated/ agreement signed (yes/no)				x	x						
	EU Fund	Specify	Road Authority of Albania			x	x						
		Euros				x	x						
		allocated/ agreement signed (yes/no)				x	x						
	Other funding source	Specify	Road Authority of Albania			x	x						
		Euros				x	x						
		allocated/ agreement signed (yes/no)				x	x						
Technical Project Status	Pre-Feasibility Study	yes/no	Road Authority of Albania			x	x						
	Feasibility Study	yes/no	Road Authority of Albania			x	x						
	Concept Design	yes/no	Road Authority of Albania			x	x						
	Preliminary Design	yes/no	Road Authority of Albania			x	x						
	Detail Design	yes/no	Road Authority of Albania			x	x						
	Environmental Impact Assessment	yes/no	Road Authority of Albania			x	x						
Project Documentation	Feasibility Study	Title	Road Authority of Albania			x	x						
		Prepared by				x	x						
		Supervised by				x	x						
	Concept Design	Title	Road Authority of Albania			x	x						
		Prepared by				x	x						
		Supervised by				x	x						
	Preliminary Design	Title	Road Authority of Albania			x	x						
		Prepared by				x	x						
		Supervised by				x	x						
	Detail Design	Title	Road Authority of Albania			x	x						
		Prepared by				x	x						
		Supervised by				x	x						
	Environmental Impact Assessment	Title	Road Authority of Albania			x	x						
		Prepared by				x	x						
		Supervised by				x	x						
Social Indicators	Annual Traffic Demand Growth	%	Road Authority of Albania			x	x						
	Modal transfer	% (if applicable)	Road Authority of Albania			x	x						
	Annual Accident Rate Reduction	% (if applicable)	Road Authority of Albania			x	x						
Economic Indicators	EIRR (Economic Internal Rate of Return)	%	Road Authority of Albania			x	x						
	NPV (Net Present Value)	Euros	Road Authority of Albania			x	x						
	SDR (Social Discount Rate)	%	Road Authority of Albania			x	x						
	Project Planning & Design Cost	Euros	Road Authority of Albania			x	x						
	Project Construction Cost	Euros	Road Authority of Albania			x	x						
	Total Project Cost	Euros	Road Authority of Albania			x	x						

Albania - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Financial Indicators	FIRR (Financial Internal Rate of Return)	%	Road Authority of Albania			x	x						
	FNPV (Financial Net Present Value)	Euros	Road Authority of Albania			x	x						
	FDR (Financial Discount Rate)	%	Road Authority of Albania			x	x						
	WACC (Weighted Average Cost of Capital)	%	Road Authority of Albania			x	x						
	First year of profit	year	Road Authority of Albania			x	x						
	DSCR (Debt Service Coverage Ratio)	%	Road Authority of Albania			x	x						
Environmental Indicators	CO2 emissions	+/- %			x								
	NOx emissions	+/- %			x								
	SO2 emission evolution	+/- %			x								
	Non-methane hydrocarbons	+/- %			x								
	Particulate matter (ppm)	+/- %			x								
	Noise levels along the section	+/- %			x								
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience of the network			x								
	Protected Natural Areas Affected	km2			x								
Geospatial data	Location of Road	Line geometry	Road Authority of Albania				x						
	Location of tunnels	Line geometry or Point geometry or x,y coordinates	Road Authority of Albania				x						
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates	Road Authority of Albania				x						
	Location of parking areas	Line geometry or Point geometry or x,y coordinates	Road Authority of Albania				x						
	Location of fuel stations	Point geometry or x,y coordinates	Road Authority of Albania				x						

Albania - data availability and formats

Road Safety

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		General Directorate of State Police/ Transport Institute										Annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	Population	number of inhabitants											
	Fleet size	number of registered vehicles											
Road Safety Data	Total number of road traffic crashes	number											
	Total number of road traffic crashes - Motorway (tolled)	number											
	Total number of road traffic crashes - Motorway (toll-free)	number											
	Total number of road traffic crashes - Primary Roads (dual carriageway)	number											
	Total number of road traffic crashes - Primary Roads (single carriageway)	number											
	Total number of road traffic crashes - Secondary Roads	number											
	Total number of road traffic crashes - Rural Roads	number											
	Total number of road traffic crashes - Urban Roads	number											
	Road traffic crashes with serious injuries only	number											
	Fatal road traffic crashes	number											
	Seriously Injured	number of persons											
	Fatalities	number of persons											
	Cause of accident (%)	alcohol											
		speed											
		infrastructure											
		use of electronic devices (mobile phone, GPS, etc)											
		vehicle not corresponding to standard											
	Data valid for	year											

Albania - data availability and formats

Seaports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile app	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of IBE - Maritime Directorate										On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code				x	x							
	TEN-T Category	Core/ Comprehensive			x	x							
	Node Name				x	x							
	Ownership Type	Government/ Private/ Mixed			x	x							
	Owner #1	Name			x	x							
	Ownership Percentage	%			x	x							
	Owner #x	Name			x	x							
	Ownership Percentage	%			x	x							
	Data valid from	year											
	Data valid to	year											
Infrastructure Data	Activity	Freight/ Passenger/ Passenger and freight			x	x							
	Condition	Very Good Good Medium Poor Very Poor			x	x							
	Total area	m2 (All land- and water-area which belongs to the port)			x	x							
	Open storage	m2			x	x							
	Covered storage	m2			x	x							
	Cold storage	m2			x	x							
	Storage of dangerous goods	m2			x	x							
	Handling equipment	Gantry cranes, Mobile cranes, Fork lifters, Reach stackers,			x	x							
	Quay Length	m			x	x							
	Berths	number			x	x							
	Maximum draught (natural or dredged)	m (maximum draught of ship which may enter the port)			x	x							
	Port terminals	ha			x	x							
	Combined terminals	ha			x	x							
	Passenger or Cruise terminals	m2			x	x							
	Passenger Capacity	passengers per year (port maximum passenger handling			x	x							
	Container terminal	yes/ no			x	x							
	Freight Capacity	tons per year (port maximum cargo handling capacity - the			x	x							
	RoRo facilities	yes/ no			x	x							
	Transhipment facilities for intermodal transport	yes/ no			x	x							
	Rail Connection	yes/no			x	x							
		number of tracks connecting the port with the hinterland			x	x							
	Road Connection	yes/no			x	x							
		number of lanes connecting the port with the hinterland			x	x							
	Intelligent Transport Systems (ITS)	yes/no			x	x							
	Type of ITS	list all ITS installed			x	x							
	Vessel Traffic Management Information System (VTMIS)	in operation (yes/no)			x	x							
	Data valid from	year											
	Data valid to	year											
TEN-T Compliance	Rail Connection	yes/no			x	x							
	Road Connection	yes/no			x	x							
	IWW/ CEMT Connection	yes/no (If physical constraints do not prevent such			x	x							
	Clean fuels availability	yes/no (Only applicable for the Core Network)			x	x							
	Terminal availability	yes/no (At least one terminal open to all operators in a non-			x	x							
	Waste facilities	yes/no (as per Directive 2000/59/EC)			x	x							
	VTMIS Deployment	yes/no (as per Directive 2002/59/EC as amended by Directive			x	x							
	Data valid from	year											
	Data valid to	year											

Albania - data availability and formats

Seaports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile app	Other	Data Collection Frequency - RP
Operations Data	Port traffic	vessels per year			x	x							monthly
	Passenger traffic	passengers per year			x	x							
	Freight traffic	tons per year			x	x							
	Dangerous Goods ton turnover	kT/year		x									
	Total turnover	kT/year			x	x							
	Tons loaded	kT/year			x	x							
	Tons unloaded	kT/year			x	x							
	Oil tons	kT/year			x	x							
	Liquid bulk tons	kT/year			x	x							
	Dry bulk tons	kT/year			x	x							
	General bulk tons	kT/year			x	x							
	TEU tons	kT/year			x	x							
	TEUs	TEU containers per year			x	x							
	RoRo	kT/year			x	x							
	RoRos	number of vehicles			x	x							
	Storage capacity used	% of capacity			x	x							
	Transhipment capacity used	% of capacity			x	x							
	Passenger capacity used	% of capacity			x	x							
	Data valid for	year											
Regular Maintenance	Maintenance cost - Total	Euros per year			x	x							
	Maintenance cost - Landside Infrastructure	Euros per year (Works on land infrastructure and facilities)			x	x							
	Maintenance cost - Maritime Infrastructure	Euros per year (Works conducted to ensure the right			x	x							
	Source of finance				x	x							
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	Passenger Capacity			x	x							
		Freight Capacity			x	x							
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x									
	CO2 emissions			x									
	NOx emissions			x									
	SO2 emission evolution			x									
	Non-methane hydrocarbons			x									
	Particulate matter (ppm)			x									
	Climate change resilience	number of flooding incidents		x									
		number of closures due to adverse weather conditions		x									
	Data valid for	year											
Geospatial data	Location of the Seaport	Point geometry or x,y coordinates		x									
	Data valid for	year											

Bosnia and Herzegovina (Federation) - data availability and format

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - BP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Security - Border Police											
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	Border with	country code			x	x								
	Corridor/ Route				x	x								
	Border Crossing Name				x	x								
	TEN-T Category	Core/ Comprehensive/ Not in TEN-T		x										
	Green Lanes	yes/no/planned		x										
	One-stop procedure (Joint Border)	yes/no/planned		x										
		indicate type of joint BCP (for passengers/for goods/ collocated on the territory of one party/entry-en		x										
Operations	Type of Controls/ Inspections Performed	phytosanitary			x	x								
		veterinary			x	x								
		radiological			x	x								
		other non-trade related controls (road charges collection, vehicles technical compliance, any other)			x	x								
	Data valid for	year												
Infrastructure	Number of lanes for trucks	entering			x	x								
		exiting			x	x								
	Number of lanes for buses	entering			x	x								
		exiting			x	x								
	Number of lanes for passenger cars	entering			x	x								
		exiting			x	x								
	Separate parking zones for trucks	yes/no			x	x								
	If yes, then truck parking capacity	vehicles		x										Maybe customs
	Truck queuing capacity	vehicles		x										Customs may have it - in charge of building the border crossings. The project documentation also contains all the capacities
	State of play (customs/border police/other border agencies)	Booths (separate/ joint)			x	x								
		Data Systems (separate/ joint)			x	x								
		Physical inspection facilities (yes/ no)			x	x								
	Systematic Electronic Exchange of Data (SEED)	yes/no/planned		x										
	New Computerized Transport System (NCTS)	yes/no/planned		x										
	eQMS (Queue Management System)	yes/no/planned		x										
	Other Electronic Information System	yes/no/planned		x										
	Type of ITS	list all ITS installed		x										
	Data valid for	year												
Operations - Rail	Passenger Trains entering	number per 24 hours			x	x								
	Freight Trains entering	number per 24 hours			x	x								
	Dangerous Goods Trains/ Wagons entering	number per 24 hours		x										
	Average entry time passenger trains	minutes		x										
	Average entry time freight trains	minutes		x										
	Passenger Trains exiting	number per 24 hours			x	x								
	Freight Trains exiting	number per 24 hours			x	x								
	Dangerous Goods Trains/ Wagons exiting	number per 24 hours		x										
	Average exit time passenger trains	minutes		x										
	Average exit time freight trains	minutes		x										
	Data valid for	year												

Bosnia and Herzegovina (Federation) - data availability and format

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - BP	Comments
Operations - Road	Passenger Cars entering	number per 24 hours (or week/ month/ year)			x	x								
	Buses entering	number per 24 hours (or week/ month/ year)			x	x								
	Freight Vehicles entering	number per 24 hours (or week/ month/ year)			x	x								
	Dangerous Goods Vehicles entering	number per 24 hours (or week/ month/ year)		x										
	Passenger Cars entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Freight Vehicles entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Buses entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Passenger Cars entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										Maybe customs
	Freight Vehicles entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										Maybe customs
	Buses entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										Only numbers of busses
	Freight vehicles cleared by customs at the BCP	% of total freight vehicle volume		x										Maybe customs
	Freight vehicles entering for Import	% of total freight vehicle volume		x										Maybe customs
	Freight vehicles entering Transit	% of total freight vehicle volume		x										Maybe customs
	Freight vehicles entering Empty	% of total freight vehicle volume		x										Maybe customs
	Passenger Cars exiting	number per 24 hours (or week/ month/ year)		x										
	Buses exiting	number per 24 hours (or week/ month/ year)		x		x								
	Freight Vehicles exiting	number per 24 hours (or week/ month/ year)		x										Maybe customs
	Dangerous Goods Vehicles Exiting	number per 24 hours (or week/ month/ year)		x										Maybe customs
	Passenger Cars exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										Maybe customs
	Freight Vehicles exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										Maybe customs
	Buses exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Passenger Cars exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										
	Freight Vehicles exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										
	Buses exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	Terminal Building				x								
	Requiring upgrade to IT Systems/ ITS	Adoption of New Computerized Transport System (NCTS)		x										Maybe customs
	Data valid for	year												
Geospatial data	Location of the border crossings	Point geometry or x,y coordinates										x		
	Data valid for	year												

Bosnia and Herzegovina (Federation) - data availability and format

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - BP	Comments
Operations - Road	Passenger Cars entering	number per 24 hours (or week/ month/ year)			x	x								
	Buses entering	number per 24 hours (or week/ month/ year)			x	x								
	Freight Vehicles entering	number per 24 hours (or week/ month/ year)			x	x								
	Dangerous Goods Vehicles entering	number per 24 hours (or week/ month/ year)		x										
	Passenger Cars entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Freight Vehicles entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Buses entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Passenger Cars entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										Maybe customs
	Freight Vehicles entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										Maybe customs
	Buses entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										Only numbers of busses
	Freight vehicles cleared by customs at the BCP	% of total freight vehicle volume		x										Maybe customs
	Freight vehicles entering for Import	% of total freight vehicle volume		x										Maybe customs
	Freight vehicles entering Transit	% of total freight vehicle volume		x										Maybe customs
	Freight vehicles entering Empty	% of total freight vehicle volume		x										Maybe customs
	Passenger Cars exiting	number per 24 hours (or week/ month/ year)		x										
	Buses exiting	number per 24 hours (or week/ month/ year)		x		x								
	Freight Vehicles exiting	number per 24 hours (or week/ month/ year)		x										Maybe customs
	Dangerous Goods Vehicles Exiting	number per 24 hours (or week/ month/ year)		x										Maybe customs
	Passenger Cars exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										Maybe customs
	Freight Vehicles exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										Maybe customs
	Buses exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Passenger Cars exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										
	Freight Vehicles exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										
	Buses exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiol		x										
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	Terminal Building				x								
	Requiring upgrade to IT Systems/ ITS	Adoption of New Computerized Transport System (NCTS)		x										Maybe customs
	Data valid for	year												
Geospatial data	Location of the border crossings	Point geometry or x,y coordinates										x		
	Data valid for	year												

Bosnia and Herzegovina (Federation) - data availability and format

Inland Waterways Ports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	VMS	VTS	AIS	Mobile App	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Public Company "Port of Brcko" Brcko District BiH		x									
	Correspondence Address				x									
	Contact Person				x									
	Position				x									
	Phone number				x									
	Email				x									
Localisation	Country Code				x									
	TEN-T Category	Core/ Comprehensive		x										
	Node Name			x										
	Ownership Type	Government/ Private/ Mixed			x	x								
	Owner #1	Name			x	x								
	Ownership Percentage	%			x	x								
	Owner #x	Name			x	x								
	Ownership Percentage	%			x	x								
	Data valid from	year			x	x								
	Data valid to	year			x	x								
Infrastructure Data	Activity	Freight/ Passenger/ Passenger and freight				x								
	Condition	Very Good Good Medium Poor Very Poor				x								
	Total area	m2 (All land- and water-area which belongs to the port)				x								
	Open storage	m2				x								
	Covered storage	m2				x								
	Cold storage	m2		x										
	Storage of dangerous goods	m2		x										
	Handling equipment	Gantry cranes, Mobile cranes, Fork lifters, Reach stackers,				x								
	Quay Length	m				x								
	Berths	number				x								
	Maximum draught (natural or dredged)	m (maximum draught of ship which may enter the port)				x								
	Port terminals	ha				x								
	Combined terminals	ha				x								
	Passenger terminals	m2		x										
	Passenger Capacity	passengers per year (port maximum passenger handling		x										
	Container terminal	yes/ no				x								
	Freight Capacity	tons per year (port maximum cargo handling capacity - the				x								
	RoRo facilities	yes/ no				x								
	Transhipment facilities for intermodal transport	yes/ no				x								
	Rail Connection	yes/no				x								
		number of tracks connecting the port with the hinterland												
	Road Connection	yes/no				x								
		number of lanes connecting the port with the hinterland												
	Intelligent Transport Systems (ITS)	yes/no		x										
	Type of ITS	list all ITS installed		x										
	Vessel Traffic Management Information System (VTMIS)	in operation (yes/no)		x										
	Data valid from	year												
	Data valid to	year												
TEN-T Compliance	Rail Connection	yes/no				x								
	Road Connection	yes/no				x								
	Clean fuels availability	yes/no (Only applicable for the Core Network)		x										
	Terminal availability	yes/no (At least one terminal open to all operators in a non-		x										
	RIS Deployment	yes/no (as per Directive 2005/44/EC)		x										
	Data valid from	year		x										
	Data valid to	year		x										

Bosnia and Herzegovina (Federation) - data availability and format

Inland Waterways Ports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	VMS	VTS	AIS	Mobile App	Other	Data Collection Frequency - RP	Comments
Operations Data	Port traffic	vessels per year				x								
	Passenger traffic	passengers per year				x								
	Freight traffic	tons per year				x								
	Dangerous Goods ton turnover	kT/year		x										
	Total turnover	kT/year		x										
	Tons loaded	kT/year		x										
	Tons unloaded	kT/year		x										
	Oil tons	kT/year		x										
	Liquid bulk tons	kT/year		x										
	Dry bulk tons	kT/year		x										
	General bulk tons	kT/year		x										
	TEU tons	kT/year		x										per TEU yearly
	TEUs	TEU containers per year		x										
	RoRo	kT/year		x										
	RoRos	number of vehicles		x										
	Storage capacity used	% of capacity		x										
	Transhipment capacity used	% of capacity		x										
	Passenger capacity used	% of capacity		x										
	Data valid for	year		x										
Regular Maintenance	Maintenance cost - Total	Euros per year				x								
	Maintenance cost - Landside infrastructure	Euros per year (Works on land infrastructure and facilities)				x								
	Maintenance cost - Riverside infrastructure	Euros per year (Works conducted to ensure the right				x								
	Source of finance					x								
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	Passenger Capacity		x										
		Freight Capacity												
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x										
	CO2 emissions			x										
	NOx emissions			x										
	SO2 emission evolution			x										
	Non-methane hydrocarbons			x										
	Particulate matter (ppm)			x										
	Climate change resilience	number of flooding incidents		x										
		number of closures due to adverse weather conditions												
		number of embankment failures												
	Data valid for	year												
Geospatial data	Location of the IWW port	Point geometry or x,y coordinates				x								
	Data valid for	year												

Bosnia and Herzegovina (Federation) - data availability and format

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Email	Word	GIS	WMS	WFS	API	Make it as	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Public Company "Port of Brcko" Brcko District BiH										Semiannually	projects financed by EBRD - all data availble
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email					x								
Localisation	Country Code					x								
	TEN-T Category	Core/ Comprehensive				x								
	Node Name					x								
Description of the Project	Project name	Text.				x								
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation,				x								
	Length (if linear)	Km/NA				x								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the				x								
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than				x								
Eligibility for TEN-T Project	Rail connection	yes/no				x								
	CEMT connection	yes/no				x								
	Clean fuels availability	yes/no (Only applicable for the Core Network)		x										
	Terminal Availability	yes/no (At least one terminal open to all operators in a non-		x										
	RIS Deployment	yes/no (as per Directive 2005/44/EC)		x										
TEN-T Compliance	Rail connection	Before project implementation (yes/no)				x								
		After project implementation (yes/no)												
	CEMT connection	Before project implementation (yes/no)				x								
		After project implementation (yes/no)												
	Clean fuels availability	Before project implementation (yes/no)		x										
		After project implementation (yes/no)												
	Terminal Availability	Before project implementation (yes/no)		x										
		After project implementation (yes/no)												
	RIS Deployment	Before project implementation (yes/no)		x										
		After project implementation (yes/no)												
Project Status	Implemented	Project completed and put in operation				x								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.				x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached),				x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet				x								
IMPLEMENTED PROJECTS				x										
Project Timeline	Initial Project Completion Date	On tender issue		x										
	Actual Project Completion Date			x										
Project Funding Sources	National Budget	Euros		x										
	WB	Euros		x										
	EBRD	Euros		x										
	EIB	Euros		x										
	Other IFI	Specify		x										
		Euros		x										
	Concessions	Specify		x										
		Euros		x										
	EU Fund	Specify		x										
		Euros		x										
	Other funding source	Specify		x										
		Euros		x										
Project Documentation	Project Folder Title	(As built documentation or if not available then final design		x										
	Prepared by			x										
	Supervised by			x										

Bosnia and Herzegovina (Federation) - data availability and format

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Email	Word	GIS	Mobile	MPS	API	Online data	Other	Data Collection Frequency - RP	Comments
Performance Indicators	Construction period	Forecasted (months)		x										
		Actual (months)		x										
	CAPEX	Forecasted (Euros)		x										
		Actual (Euros)		x										
	OPEX	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Maintenance cost	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Interest During Construction	%		x										
	EBITDA (last year)	Euros		x										
	Revenue (if fare/toll collected)	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Traffic	Port traffic - forecasted		x										
		Port traffic - actual		x										
		Passenger traffic - forecasted		x										
		Passenger traffic - actual		x										
		Freight (tn) - forecasted		x										
		Freight (tn) - actual		x										
LIVE PROJECTS				x										
Project Timeline	Tender Start Date (month/ year)	Initially forecasted				x								
		Current Estimation. Please refer to realistic targets rather than				x								
		Actual				x								
	Design Completion Date (month/ year)	Forecasted (on tender issue)				x								
		Current Estimation. Please refer to realistic targets rather than				x								
		Actual				x								
	Project Completion Date (month/ year)	Forecasted (on tender issue)				x								
		Current Estimation. Please refer to realistic targets rather than				x								
Project Funding Sources	National Budget	Euros												
		allocated/ agreement signed (yes/no)												
	WB	Euros												
		allocated/ agreement signed (yes/no)												
	EBRD	Euros				x								
		allocated/ agreement signed (yes/no)				x								
	EIB	Euros												
		allocated/ agreement signed (yes/no)												
	Other IFI	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	Concessions	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	EU Fund	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	Other funding source	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
Technical Project Status	Pre-Feasibility Study	yes/no				x								
	Feasibility Study	yes/no				x								
	Concept Design	yes/no				x								
	Preliminary Design	yes/no				x								
	Detail Design	yes/no				x								
	Environmental Impact Assessment	yes/no				x								
Project Documentation	Feasibility Study	Title				x								
		Prepared by				x								
		Supervised by				x								
	Concept Design	Title				x								
		Prepared by				x								
		Supervised by				x								
	Preliminary Design	Title				x								
		Prepared by				x								
		Supervised by				x								
	Detail Design	Title				x								
		Prepared by				x								
		Supervised by				x								
	Environmental Impact Assessment	Title				x								
		Prepared by				x								
		Supervised by				x								
Social Indicators	Annual Traffic Demand Growth	%				x								In the studies
	Modal transfer	% (if applicable)				x								
	Annual Accident Rate Reduction	% (if applicable)				x								

Bosnia and Herzegovina (Federation) - data availability and format

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Email	Word	GIS	Mobile	MPS	API	Online data	Other	Data Collection Frequency - RP	Comments
Economic Indicators	EIRR (Economic Internal Rate of Return)	%				x								
	NPV (Net Present Value)	Euros				x								
	SDR (Social Discount Rate)	%												
	Project Planning & Design Cost	Euros				x								
	Project Construction Cost	Euros				x								
	Total Project Cost	Euros				x								
Financial Indicators	FIRR (Financial Internal Rate of Return)	%		x										
	FNPV (Financial Net Present Value)	Euros		x										
	FDR (Financial Discount Rate)	%		x										
	WACC (Weighted Average Cost of Capital)	%		x										
	First year of profit	year		x										
	DSCR (Debt Service Coverage Ratio)	%		x										
Environmental Indicators	CO2 emissions	+/- %		x										
	NOx emissions	+/- %		x										
	O2 emission evolution	+/- %		x										
	Non-methane hydrocarbons	+/- %		x										
	Particulate matter (ppm)	+/- %		x										
	Climate Change Resilience	Provide description of the project's effect to the climate		x										
	Protected Natural Areas Affected	km2		x										
Geospatial data	Location of the IWW Port	Point geometry or x,y coordinates				x								

Bosnia and Herzegovina (Federation) - data availability and format

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info for NFA	Road	Wood	GIS	WMS	WFS	API	Relational data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Bosnia and Herzegovina Federal Railways											
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code						x	x						
	TEN-T Category	Core/ Comprehensive					x	x						
	Corridor/ Route						x	x						
	International Route ID						x	x						
	National Route ID						x	x						
	Start Node Name						x	x						
	End Node Name						x	x						
	Start km	Direction A					x	x						
		Direction B												
	End km	Direction A					x	x						
		Direction B												
	Status	Planned/ Existing/ Upgrade					x	x						
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Capacity	trains/ day					x	x						
	Track gauge	750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1602 / 1668					x	x						
	Load gauge	either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle B+ GAUGE: Total height is 4.18 m above the rail and 1.36 m					x	x						
	Condition of track (Operational/ Design Speed)	Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)					x	x						
	Number of tracks	Total (most relevant figures, e.g. if a single track railway of					x	x						
	Traction	Diesel					x	x						
		Electrified					x	x						
	Rail voltage	25 000 Volts, 50Hz 15 000 Volts, 16 2/3 Hz 3 000 Volts, DC 1 500 Volts, DC 750 Volts DC 660 Volts DC 630 Volts DC					x	x						
	Length - Total (km)						x	x						
	Length - Open Track (km)						x	x						
	Length - Tunnels (km)						x	x						
	Length - Bridges over 12m length (km)						x	x						
	Tunnels	number					x	x						
	Level-Crossings	number					x	x						
	Max Design Speed	km per hour					x	x						
	Max Operating Speed	km per hour					x	x						
	Max Longitudinal Gradient (m per km)	Direction A					x	x						
		Direction B					x	x						
	Min radius	meters					x	x						
	Maximum train length	meters					x	x						
	Max Axle load	kN					x	x						
	Signalling Standard						x	x						
	Traffic Management						x	x						
	ERTMS in operation	yes/no					x	x						
	ERTMS level	already equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard unit using GSM-R.					x	x						
	Control & Command System	Specify which system is used to ensure safety and to					x	x						
	Data valid from	year												
	Data valid to	year												
TEN-T Compliance	Electrification	yes/no (Not applicable for isolated networks. Applies to line					x	x						
	Railway Tunnels Compliance	yes/no as per Directive 2014/1303/EC as amended by					x	x						
	Freight Line Speed	yes/no (At least 100km (Only applicable for the freight lines of					x	x						
	Freight Line Axle Load	yes/no (At least 22.5t (Only applicable for the freight lines of					x	x						
	Freight Line Train Length	yes/no (At least 750m (Only applicable for the freight lines of					x	x						
	Track Gauge 1435mm	yes/no (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network					x	x						
	ERTMS Deployment	yes/no (European Train Control System (ETCS) - Not					x	x						
		yes/no (Global System for Mobile communications for					x	x						
	Data valid from	year												
	Data valid to	year												

Bosnia and Herzegovina (Federation) - data availability and format

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WFS	API	Web & GIS	Other	Data Collection Frequency - RP	Comments
Operations Data	Passenger Trains	number per 24 hours				x	x							
	Freight Trains	number per 24 hours				x	x							
	Dangerous Goods Freight Trains	number per 24 hours				x	x							
	Capacity used	% of capacity				x	x							
	Passenger traffic	number per year				x	x							
		passenger km per year				x	x							
	Freight traffic	tons per year				x	x							
		tkm per year				x	x							
	TEUs	TEU containers per year				x	x							
	Unitised	% in standard loading units				x	x							
	Non Unitised	% of bulk and general traffic				x	x							
	National traffic	% of total traffic				x	x							
	Average travel time passenger (incl. stops)	long distance trains only				x	x							
	Average travel time freight (incl. stops)	long distance trains only				x	x							
	Data valid for	year												
Safety	Number of Incidents	absolute number (as per Directive 2016/798/EU - Railway				x	x							
	Number of Accidents	absolute number (as per Directive 2016/798/EU - Railway				x	x							
	Number of Significant Accidents	absolute number (as per Directive 2016/798/EU - Railway				x	x							
	Number of Serious Accidents	absolute number (as per Directive 2016/798/EU - Railway				x	x							
	Serious Accidents - Number of Serious Injuries	absolute number				x	x							
	Serious Accidents - Number of Fatalities	absolute number				x	x							
	Serious Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)				x	x							
	Serious Accidents - Amount of Material Damage	EUR per year				x	x							
	Serious Accidents - Disruption of traffic	hours per year				x	x							
	Serious Accidents - Indirect damages related to delays	EUR per year				x	x							
	Significant Accidents - Number of Significant injuries	absolute number				x	x							
	Significant Accidents - Number of Fatalities	absolute number				x	x							
	Significant Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)				x	x							
	Significant Accidents - Amount of Material Damage	EUR per year				x	x							
	Significant Accidents - Disruption of traffic	hours per year				x	x							
	Significant Accidents - Indirect damages related to delays	EUR per year				x	x							
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per year per km				x	x							
	Maintenance cost - Total	Euros				x	x							
	Maintenance cost - Infrastructure	Euros per year (rail track, switches and crossings, tunnels,				x	x							
	Maintenance cost - Signalling and telecom system	Euros per year (Maintenance of rail station signalling, automatic block system, automatic and mechanical level				x	x							
	Maintenance cost - Electrification system	Euros per year (Maintenance of catenaries, electric railway				x	x							
	Source of finance					x	x							
	Data valid for	year												
Heavy Maintenance	Requiring heavy maintenance	length of section (km)				x	x							
	Requiring rehabilitation	length of section (km)				x	x							
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	length of section (km)				x	x							
	Requiring upgrade (additional track/ new line)	length of section (km)				x	x							
	Data valid for	year												
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x										
	CO2 emissions			x										
	NOx emissions			x										
	SO2 emission evolution			x										
	Non-methane hydrocarbons			x										
	Particulate matter (ppm)			x										
	Noise	Noise levels along the section		x										
	Climate change resilience	number of flooding incidents		x										
		number of closures due to adverse weather conditions		x										
		number of embankment failures		x										
	Data valid for	year												
Geospatial data	Location of Railway Line	Line geometry						x						
	Location of tunnels	Line geometry or Point geometry or x,y coordinates						x						
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates						x						
	Location of Stations	Line geometry or Point geometry or x,y coordinates						x						
	Location of level crossings	Point geometry or x,y coordinates						x						
	Location of serious accidents	Point geometry or x,y coordinates						x						
	Data valid for	year												

Bosnia and Herzegovina (Federation) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WFS	API	Web & GIS	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Bosnia and Herzegovina Federal Railways										
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	TEN-T Category	Core/ Comprehensive				x	x						
	Corridor/ Route	Before project implementation				x	x						
		After project implementation				x	x						
	International Route ID	Before project implementation				x	x						
		After project implementation				x	x						
	National Route ID	Before project implementation				x	x						
		After project implementation				x	x						
	Start Node Name	Before project implementation				x	x						
		After project implementation				x	x						
	End Node Name	Before project implementation				x	x						
		After project implementation				x	x						
	Start km	Direction A - Before project implementation				x	x						
		Direction A - After project implementation				x	x						
		Direction B - Before project implementation				x	x						
		Direction B - After project implementation				x	x						
	End km	Direction A - Before project implementation				x	x						
		Direction A - After project implementation				x	x						
		Direction B - Before project implementation				x	x						
		Direction B - After project implementation				x	x						
Description of the Project	Project name	Text				x	x						
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation,				x	x						
	Length (if linear)	Km/NA				x	x						
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the			x								
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than			x								
Eligibility for TEN-T Project	Electrification	yes/no				x	x						
	Line speed 100 km/h (freight)	yes/no				x	x						
	Axle load 22,5 t	yes/no				x	x						
	Track gauge	yes/no				x	x						
	Train length 740 m	yes/no				x	x						
	ERTMS Deployment (ETCS)	yes/no				x	x						
	ERTMS Deployment (GSM-R)	yes/no				x	x						

Bosnia and Herzegovina (Federation) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Other data	Other	Data Collection Frequency - RP
TEN-T Compliance	Electrification	Before project implementation (yes/no)											
		After project implementation (yes/no)		x									
	Line speed 100 km/h (freight)	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
	Axle load 22,5 t	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
	Track gauge	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
	Train length 740 m	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
	ERTMS Deployment (ETCS)	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
	ERTMS Deployment (GSM-R)	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
Project Status	Implemented	Project completed and put in operation			x	x							
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			x	x							
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached).			x	x							
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet.			x	x							
IMPLEMENTED PROJECTS													
Project Timeline	Initial Project Completion Date	On tender issue			x	x							
	Actual Project Completion Date				x	x							
Project Funding Sources	National Budget	Euros			x	x							
	WB	Euros			x	x							
	EBRD	Euros			x	x							
	EIB	Euros			x	x							
	Other IFI	Specify			x	x							
		Euros			x	x							
	Concessions	Specify			x	x							
		Euros			x	x							

Bosnia and Herzegovina (Federation) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Web-site data	Other	Data Collection Frequency - RP
	EU Fund	Specify			x	x							
		Euros			x	x							
	Other funding source	Specify			x	x							
		Euros			x	x							

Bosnia and Herzegovina (Federation) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile data	Other	Data Collection Frequency - RP
Project Documentation	Project Folder Title	(As built documentation or if not available then final design		x									
	Prepared by			x									
	Supervised by			x									
Performance Indicators	Construction period	Forecasted (months)		x									
		Actual (months)		x									
	CAPEX	Forecasted (Euros)		x									
		Actual (Euros)		x									
	OPEX	Forecasted (Euros per year)		x									
		Actual (Euros per year)		x									
	Maintenance cost	Forecasted (Euros per year)		x									
		Actual (Euros per year)		x									
	Interest During Construction	%		x									
	EBITDA (last year)	Euros		x									
	Revenue (if fare/toll collected)	Forecasted (Euros per year)		x									
		Actual (Euros per year)		x									
	Traffic	Train traffic - forecasted		x									
		Train traffic - actual		x									
		Passenger traffic - forecasted		x									
		Passenger traffic - actual		x									
		Freight (tn) - forecasted		x									
		Freight (tn) - actual		x									
LIVE PROJECTS													
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			x	x							
		Current Estimation. Please refer to realistic targets rather than			x	x							
		Actual			x	x							
	Design Completion Date (month/ year)	Forecasted (on tender issue)			x	x							
		Current Estimation. Please refer to realistic targets rather than			x	x							
		Actual			x	x							
	Project Completion Date (month/ year)	Forecasted (on tender issue)			x	x							
		Current Estimation. Please refer to realistic targets rather than			x	x							
Project Funding Sources	National Budget	Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	WB	Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	EBRD	Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	EIB	Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	Other IFI	Specify			x	x							
		Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	Concessions	Specify			x	x							
		Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	EU Fund	Specify			x	x							
		Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	Other funding source	Specify			x	x							
		Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
Technical Project Status	Pre-Feasibility Study	yes/no			x	x							
	Feasibility Study	yes/no			x	x							
	Concept Design	yes/no			x	x							
	Preliminary Design	yes/no			x	x							
	Detail Design	yes/no			x	x							
	Environmental Impact Assessment	yes/no			x	x							

Bosnia and Herzegovina (Federation) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile data	Other	Data Collection Frequency - RP
Project Documentation	Feasibility Study	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
	Concept Design	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
	Preliminary Design	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
	Detail Design	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
	Environmental Impact Assessment	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
Social Indicators	Annual Traffic Demand Growth	%		x									
	Modal transfer	% (if applicable)		x									
	Annual Accident Rate Reduction	% (if applicable)		x									
Economic Indicators	EIRR (Economic Internal Rate of Return)	%		x									
	NPV (Net Present Value)	Euros		x									
	SDR (Social Discount Rate)	%		x									
	Project Planning & Design Cost	Euros		x									
	Project Construction Cost	Euros		x									
	Total Project Cost	Euros		x									
Financial Indicators	FIRR (Financial Internal Rate of Return)	%		x									
	FNPV (Financial Net Present Value)	Euros		x									
	FDR (Financial Discount Rate)	%		x									
	WACC (Weighted Average Cost of Capital)	%		x									
	First year of profit	year		x									
	DSCR (Debt Service Coverage Ratio)	%		x									
Environmental Indicators	CO2 emissions	+/- %		x									
	NOx emissions	+/- %		x									
	SO2 emission evolution	+/- %		x									
	Non-methane hydrocarbons	+/- %		x									
	Particulate matter (ppm)	+/- %		x									
	Noise levels along the section	+/- %		x									
	Climate Change Resilience	Provide description of the project's effect to the climate		x									
	Protected Natural Areas Affected	km2		x									
Geospatial data	Location of Railway Line	Line geometry		x									
	Location of tunnels	Line geometry or Point geometry or x,y coordinates		x									
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates		x									
	Location of Stations	Line geometry or Point geometry or x,y coordinates		x									
	Location of level crossings	Point geometry or x,y coordinates		x									

Bosnia and Herzegovina (Federation) - data availability and format

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Not N/A	Excel	Word	GIS	Web	WFS	API	Mobile app	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Federal Ministry of Communications and Transport											
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	TEN-T Category	Core/ Comprehensive												
	Corridor/ Route													
	International Route ID													
	National Route ID													
	Start Node Name													
	End Node Name													
	Start km	Direction A												
		Direction B												
	End km	Direction A												
		Direction B												
	Status	Planned/ Existing/ Upgrade												
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Category	Motorways/ Dual Carriageways/ Single Carriageways												
	Pavement Condition	1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing												
	Lanes	Direction A												
		Direction B												
	Length - Total (km)	Direction A												
		Direction B												
	Length - Open Road (km)	Direction A												
		Direction B												
	Length - Tunnels (km)	Direction A												
		Direction B												
	Length - Bridges over 12m length (km)	Direction A												
		Direction B												
	Tunnels	Direction A (absolute number)												
		Direction B (absolute number)												
	Parking areas	Direction A (absolute number)												
		Direction B (absolute number)												
	Fuel Stations	Direction A (absolute number)												
		Direction B (absolute number)												
		Type of fuels (Diesel, Gas, CNG, LNG, Hydrogen, Charging												
	Design Speed	km per hour												
	Speed limit	km per hour												
	Operating Speed	km per hour												
	Max Longitudinal Gradient (%)	Direction A												
		Direction B												
	Max Permitted Weight	per vehicle (tons)												
		axle load (kN)												
	Capacity	minimum lane capacity per hour (PCUs) for both directions												
	Tolled	yes/ no												
	Type of Tolls	per km/ per day												
	Charging Method	stations/ free flow/ vignette/ GNSS												
	Number of Toll Station Lanes	manned/ electronic												
	Intelligent Transport Systems (ITS)	yes/no												
	Type of ITS	list all ITS installed												
	Operation Supervised by Control Centre	yes/ no												
	Data valid from	year												
	Data valid to	year												
TEN-T Compliance	TEN-T Requirements Compliant	yes/no as per art. 17.3 (a) and (b) of Regulation 1315/2013		x										
	Alternative Fuels Availability	yes/no as per Directive no. 2014/94/EU		x										
	ITS Compliance	yes/no as per Directive 2010/40/EU		x										
	Tolling Interoperability	yes/no as per Directive 2004/52/EC and Commission Decision		x										
	Safety Compliance	yes/no as per Directive 2008/96/EC		x	x									The part that was financed by the EBRD was made - It was always only on a couple of shares
	Road Tunnels Compliance (length >500m)	yes/no as per Directive 2004/54/EC			x									All according to directive
	Data valid from	year		x										
	Data valid to	year		x										

Bosnia and Herzegovina (Federation) - data availability and format

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Not N/A	Excel	Word	GIS	Web	WFS	API	Mobile app	Other	Data Collection Frequency - RP	Comments
Operations Data	Total traffic flow	AADT or vehicles per year												Counters exist, analysis are not functioning well
	Passenger cars	AADT or vehicles per year												
	Busses	AADT or vehicles per year												
	Trucks	AADT or vehicles per year												
	International traffic	% of AADT or total traffic flow												
	Percentage of HGVs	% of AADT or total traffic flow												
	Freight traffic flow	tons per year												
		vehicles per year												
	Dangerous goods vehicles	Number per year or % of AADT or total traffic flow												
	Passengers	number												
	Average travel time (PCs)	in minutes												
	Average travel time (HVGs)	in minutes												
	Toll Rate Currency	Currency (e.g. Euro)												
	Toll Rate Passenger Cars	per km (e.g. Euro per km)												
		per day (e.g. Euro per day)												
	Toll Rate Heavy Good Vehicles	per km (e.g. Euro per km)												
		per day (e.g. Euro per day)												
	% toll evasion	% of vehicles												
	Data valid for	year												
Road Safety	Total number of road traffic crash	absolute number				x								
	Road traffic crash with serious injuries only	absolute number				x								
	Fatal road traffic crash	absolute number				x								
	Chainage (km position) of road traffic crashes with injury/ fatality			x										
	Total injured	number of persons				x								
	Seriously injured	number of persons				x								
	Fatalities	number of persons				x								
	Road Safety Audit carried out at design stage	yes/ no		x		x								
	Section ranked as high/risk	yes/ no												
	Road Safety Inspections carried out	Total number												
		Corresponding dates												
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per km per year												
	Maintenance cost - Open Road	Euros per km per year												
	Maintenance cost - Tunnel	Euros per km per year												
	Maintenance cost - Bridges	Euros per km per year												
	Heavy/ Periodic Maintenance Cost	Euros per km per year (Activities on a section of road at regular and relatively long intervals, aims to preserve the												
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention, such as collapsed culverts or												
	Winter Maintenance Cost	Euros per km per year												
	Routine Maintenance Cost	Euros per km per year (The rest of maintenance cost for the												
	Source of finance													
	Data valid for	year												
Heavy/ Periodic Maintenance Requirements	Requiring rehabilitation - Open Road	length of section (km)												
	Requiring rehabilitation - Tunnel	length of section (km)												
	Requiring rehabilitation - Bridges	length of section (km)												
	Requiring heavy/ periodic maintenance - Open Road	length of section (km)												
	Requiring heavy/ periodic maintenance - Tunnel	length of section (km)												
	Requiring heavy/ periodic maintenance - Bridges	length of section (km)												
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity - Open Road	length of section (km)												
	Requiring upgrade to increase capacity - Tunnel	length of section (km)												
	Requiring upgrade to increase capacity - Bridges	length of section (km)												
	Data valid for	year												

Bosnia and Herzegovina (Federation) - data availability and format

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)											
	CO2 emissions												
	NOx emissions												
	SO2 emission evolution												
	Non-methane hydrocarbons												
	Particulate matter (ppm)												
	Noise	Noise levels along the section											
	Climate change resilience	number of flooding incidents											
		number of closures due to adverse weather conditions											
		number of embankment failures											
		number of winter maintenance days											
	Data valid for	year											
Geospatial data	Location of Road	Line geometry											
	Location of tunnels	Line geometry or Point geometry or x,y coordinates											
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates											
	Location of parking areas	Line geometry or Point geometry or x,y coordinates											
	Location of fuel stations	Point geometry or x,y coordinates											
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates											
	Data valid for	year											

Bosnia and Herzegovina (Federation) - data availability and format

Road Safety

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Federal Ministry of Communications and Transport										
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	Population	number of inhabitants			x	x							
	Fleet size	number of registered vehicles			x	x							
Road Safety Data	Total number of road traffic crashes	number			x								
	Total number of road traffic crashes - Motorway (tolled)	number			x								Motorways are making this kind of analysis
	Total number of road traffic crashes - Motorway (toll-free)	number											No data on yearly basis - only per cantons
	Total number of road traffic crashes - Primary Roads (dual carri	number											No data on yearly basis - only per cantons
	Total number of road traffic crashes - Primary Roads (single car	number											No data on yearly basis - only per cantons
	Total number of road traffic crashes - Secondary Roads	number											No data on yearly basis - only per cantons
	Total number of road traffic crashes - Rural Roads	number											No data on yearly basis - only per cantons
	Total number of road traffic crashes - Urban Roads	number											No data on yearly basis - only per cantons
	Road traffic crashes with serious injuries only	number			x								
	Fatal road traffic crashes	number			x								
	Seriously injured	number of persons			x								
	Fatalities	number of persons			x								
	Cause of accident (%)	alcohol		x									No indicators
		speed											
		infrastructure											
		use of electronic devices (mobile phone, GPS, etc)											
		vehicle not corresponding to standard											
	Data valid for	year											

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Railways of Republika Srpska										
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	TEN-T Category	Core/ Comprehensive		x									
	Corridor/ Route					x							
	International Route ID					x							
	National Route ID					x							
	Start Node Name					x							
	End Node Name					x							
	Start km	Direction A				x							
		Direction B				x							
	End km	Direction A				x							
		Direction B				x							
	Status	Planned/ Existing/ Upgrade				x							
	Data valid from	year				x							
	Data valid to	year				x							
Infrastructure Data	Capacity	trains/ day				x							
	Track gauge	750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1602 / 1668				x							
	Load gauge	the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle B+ GAUGE: Total height is 4.18 m above the rail and 1.36 m on either side				x							
	Condition of track (Operational/ Design Speed)	Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)		x									
	Number of tracks	Total (most relevant figures, e.g. if a single track railway of 10km has 2km				x							
	Traction	Diesel				x							
		Electrified				x							
	Rail voltage	25 000 Volts, 50Hz 15 000 Volts, 16 2/3 Hz 3 000 Volts, DC 1 500 Volts, DC 750 Volts DC 660 Volts DC 630 Volts DC				x							
	Length - Total (km)					x							
	Length - Open Track (km)			x									
	Length - Tunnels (km)					x							
	Length - Bridges over 12m length (km)					x							
	Tunnels	number				x							
	Level-Crossings	number				x							
	Max Design Speed	km per hour				x							
	Max Operating Speed	km per hour				x							
	Max Longitudinal Gradient (m per km)	Direction A				x							
		Direction B				x							
	Min radius	meters				x							
	Maximum train length	meters				x							
	Max Axle load	kN				x							
	Signalling Standard					x							
	Traffic Management					x							
	ERTMS in operation	yes/no		x									
	ERTMS level	equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard unit using GSM-R.		x									
	Control & Command System	Specify which system is used to ensure safety and to command and control				x							
	Data valid from	year											
	Data valid to	year											
TEN-T Compliance	Electrification	yes/no (Not applicable for isolated networks. Applies to line trucks and		x									
	Railway Tunnels Compliance	yes/no as per Directive 2014/1303/EC as amended by 2016/912/EC and		x									
	Freight Line Speed	yes/no (At least 100km (Only applicable for the freight lines of the Core		x									
	Freight Line Axle Load	yes/no (At least 22.5t (Only applicable for the freight lines of the Core				x							
	Freight Line Train Length	yes/no (At least 750m (Only applicable for the freight lines of the Core		x									
	Track Gauge 1435mm	yes/no (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network the track gauge of which is		x									
	ERTMS Deployment	yes/no (European Train Control System (ETCS) - Not applicable for isolated		x									
		yes/no (Global System for Mobile communications for Railways (GSM-R) -		x									
	Data valid from	year											
	Data valid to	year											

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WFS	API	Data Base	Other	Data Collection Frequency - RP	Comments
Operations Data	Passenger Trains	number per 24 hours			x									
	Freight Trains	number per 24 hours			x									
	Dangerous Goods Freight Trains	number per 24 hours		x										
	Capacity used	% of capacity				x								
	Passenger traffic	number per year			x									
		passenger km per year			x									
	Freight traffic	tons per year			x									
		tkm per year			x									
	TEUs	TEU containers per year			x									
	Unitised	% in standard loading units		x										
	Non Unitised	% of bulk and general traffic		x										
	National traffic	% of total traffic				x								
	Average travel time passenger (incl. stops)	long distance trains only				x								
	Average travel time freight (incl. stops)	long distance trains only				x								
	Data valid for	year												
Safety	Number of Incidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				x								
	Number of Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				x								
	Number of Significant Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety and				x								
	Number of Serious Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				x								
	Serious Accidents - Number of Serious Injuries	absolute number				x								
	Serious Accidents - Number of Fatalities	absolute number				x								
	Serious Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)				x								
	Serious Accidents - Amount of Material Damage	EUR per year				x								
	Serious Accidents - Disruption of traffic	hours per year		x										
	Serious Accidents - Indirect damages related to delays	EUR per year				x								
	Significant Accidents - Number of Significant Injuries	absolute number				x								
	Significant Accidents - Number of Fatalities	absolute number				x								
	Significant Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)				x								
	Significant Accidents - Amount of Material Damage	EUR per year				x								
	Significant Accidents - Disruption of traffic	hours per year		x										
	Significant Accidents - Indirect damages related to delays	EUR per year				x								
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per year per km				x								
	Maintenance cost - Total	Euros				x								
	Maintenance cost - Infrastructure	Euros per year (rail track, switches and crossings, tunnels, bridges, level				x								
	Maintenance cost - Signalling and telecom system	Euros per year (Maintenance of rail station signalling, automatic block system, automatic and mechanical level crossings, maintenance of railway				x								
	Maintenance cost - Electrification system	Euros per year (Maintenance of catenaries, electric railway substations,				x								
	Source of finance					x								
	Data valid for	year												
Heavy Maintenance	Requiring heavy maintenance	length of section (km)		x										
	Requiring rehabilitation	length of section (km)		x										
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	length of section (km)		x										
	Requiring upgrade (additional track/ new line)	length of section (km)		x										
	Data valid for	year												
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x										
	CO2 emissions			x										
	NOx emissions			x										
	SO2 emission evolution			x										
	Non-methane hydrocarbons			x										
	Particulate matter (ppm)			x										
	Noise	Noise levels along the section		x										
	Climate change resilience	number of flooding incidents		x										
		number of closures due to adverse weather conditions		x										
		number of embankment failures		x										
	Data valid for	year												
Geospatial data	Location of Railway Line	Line geometry					x							
	Location of tunnels	Line geometry or Point geometry or x,y coordinates					x							
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates					x							
	Location of Stations	Line geometry or Point geometry or x,y coordinates					x							
	Location of level crossings	Point geometry or x,y coordinates					x							
	Location of serious accidents	Point geometry or x,y coordinates					x							
	Data valid for	year												

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WFS	API	Data Base	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Railways of Republika Srpska										
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code					x							
	TEN-T Category	Core/ Comprehensive				x							
	Corridor/ Route	Before project implementation				x							
		After project implementation				x							
	International Route ID	Before project implementation				x							
		After project implementation				x							
	National Route ID	Before project implementation				x							
		After project implementation				x							
	Start Node Name	Before project implementation				x							
		After project implementation				x							
	End Node Name	Before project implementation				x							
		After project implementation				x							
	Start km	Direction A - Before project implementation				x							
		Direction A - After project implementation				x							
		Direction B - Before project implementation				x							
		Direction B - After project implementation				x							
	End km	Direction A - Before project implementation				x							
		Direction A - After project implementation				x							
		Direction B - Before project implementation				x							
		Direction B - After project implementation				x							
Description of the Project	Project name	Text				x							
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance,				x							
	Length (if linear)	Km/NA				x							
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory				x							
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual				x							
Eligibility for TEN-T Project	Electrification	yes/no				x							
	Line speed 100 km/h (freight)	yes/no				x							
	Axle load 22,5 t	yes/no				x							
	Track gauge	yes/no			x								
	Train length 740 m	yes/no			x								
	ERTMS Deployment (ETCS)	yes/no			x								
	ERTMS Deployment (GSM-R)	yes/no			x								

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile App	Other	Data Collection Frequency - RP
TEN-T Compliance	Electrification	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	Line speed 100 km/h (freight)	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	Axle load 22,5 t	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	Track gauge	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	Train length 740 m	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
	ERTMS Deployment (ETCS)	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
	ERTMS Deployment (GSM-R)	Before project implementation (yes/no)		x									
		After project implementation (yes/no)		x									
Project Status	Implemented	Project completed and put in operation				x							
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.				x							
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-				x							
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.				x							
IMPLEMENTED PROJECTS													
Project Timeline	Initial Project Completion Date	On tender issue				x							
	Actual Project Completion Date					x							
Project Funding Sources	National Budget	Euros				x							
	WB	Euros				x							
	EBRD	Euros				x							
	EIB	Euros				x							
	Other IFI	Specify				x							
		Euros											
	Concessions	Specify				x							
		Euros											

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile App	Other	Data Collection Frequency - RP
	EU Fund	Specify				x							
		Euros											
	Other funding source	Specify				x							
		Euros											

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	DWG	WMS	API	Media Files	Other	Data Collection Frequency - EP
Project Documentation	Project Folder Title	(As built documentation or if not available then final design				x							
	Prepared by					x							
	Supervised by					x							
Performance Indicators	Construction period	Forecasted (months)				x							
		Actual (months)											
	CAPEX	Forecasted (Euros)		x									
		Actual (Euros)											
	OPEX	Forecasted (Euros per year)		x									
		Actual (Euros per year)											
	Maintenance cost	Forecasted (Euros per year)		x									
		Actual (Euros per year)											
	Interest During Construction	%		x									
	EBITDA (last year)	Euros		x									
	Revenue (if fare/toll collected)	Forecasted (Euros per year)		x									
		Actual (Euros per year)											
	Traffic	Train traffic - forecasted				x							
		Train traffic - actual											
		Passenger traffic - forecasted											
		Passenger traffic - actual											
		Freight (tn) - forecasted											
		Freight (tn) - actual											
LIVE PROJECTS													
Project Timeline	Tender Start Date (month/ year)	Initially forecasted				x							
		Current Estimation. Please refer to realistic targets rather than contractual											
		Actual											
	Design Completion Date (month/ year)	Forecasted (on tender issue)				x							
		Current Estimation. Please refer to realistic targets rather than contractual											
		Actual											
	Project Completion Date (month/ year)	Forecasted (on tender issue)				x							
		Current Estimation. Please refer to realistic targets rather than contractual											
Project Funding Sources	National Budget	Euros				x							
		allocated/ agreement signed (yes/no)											
	WB	Euros				x							
		allocated/ agreement signed (yes/no)											
	EBRD	Euros				x							
		allocated/ agreement signed (yes/no)											
	EIB	Euros				x							
		allocated/ agreement signed (yes/no)											
	Other IFI	Specify				x							
		Euros											
		allocated/ agreement signed (yes/no)											
	Concessions	Specify				x							
		Euros											
		allocated/ agreement signed (yes/no)											
	EU Fund	Specify				x							
		Euros											
		allocated/ agreement signed (yes/no)											
	Other funding source	Specify				x							
		Euros											
		allocated/ agreement signed (yes/no)											
Technical Project Status	Pre-Feasibility Study	yes/no				x							
	Feasibility Study	yes/no				x							
	Concept Design	yes/no				x							
	Preliminary Design	yes/no				x							
	Detail Design	yes/no				x							
	Environmental Impact Assessment	yes/no				x							

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	DWG	WMS	API	Media Files	Other	Data Collection Frequency - EP
Project Documentation	Feasibility Study	Title				x							
		Prepared by											
		Supervised by											
	Concept Design	Title				x							
		Prepared by											
		Supervised by											
	Preliminary Design	Title				x							
		Prepared by											
		Supervised by											
	Detail Design	Title				x							
		Prepared by											
		Supervised by											
	Environmental Impact Assessment	Title				x							
		Prepared by											
		Supervised by											
Social Indicators	Annual Traffic Demand Growth	%		x									
	Modal transfer	% (if applicable)		x									
	Annual Accident Rate Reduction	% (if applicable)		x									
Economic Indicators	EIRR (Economic Internal Rate of Return)	%				x							
	NPV (Net Present Value)	Euros				x							
	SDR (Social Discount Rate)	%				x							
	Project Planning & Design Cost	Euros				x							
	Project Construction Cost	Euros				x							
	Total Project Cost	Euros				x							
Financial Indicators	FIRR (Financial Internal Rate of Return)	%		x									
	FNPV (Financial Net Present Value)	Euros		x									
	FDR (Financial Discount Rate)	%		x									
	WACC (Weighted Average Cost of Capital)	%		x									
	First year of profit	year		x									
	DSCR (Debt Service Coverage Ratio)	%		x									
Environmental Indicators	CO2 emissions	+/- %		x									
	NOx emissions	+/- %		x									
	SO2 emission evolution	+/- %		x									
	Non-methane hydrocarbons	+/- %		x									
	Particulate matter (ppm)	+/- %		x									
	Noise levels along the section	+/- %		x									
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience		x									
	Protected Natural Areas Affected	km2		x									
Geospatial data	Location of Railway Line	Line geometry						x					
	Location of tunnels	Line geometry or Point geometry or x,y coordinates						x					
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates						x					
	Location of Stations	Line geometry or Point geometry or x,y coordinates						x					
	Location of level crossings	Point geometry or x,y coordinates						x					

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Web GIS	Excel	Word	GIS	Visio	MS Project	MS Access	Adobe PDF	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Roads of Republic Srpska			x								
	Correspondence Address					x								
	Contact Person					x								
	Position					x								
	Phone number					x								
	Email					x								
Localisation	Country Code					x								
	TEN-T Category	Core/ Comprehensive				x								
	Corridor/ Route					x								
	International Route ID					x								
	National Route ID					x								
	Start Node Name					x								
	End Node Name					x								
	Start km	Direction A				x								
		Direction B				x								
	End km	Direction A				x								
		Direction B				x								
	Status	Planned/ Existing/ Upgrade				x								
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Category	Motorways/ Dual Carriageways/ Single Carriageways			x									
	Pavement Condition	1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing Course (NWC) (IRI [2.84- 5.09]) 3b. Medium PRH, describes a road which needs Pavement Rehabilitation			x									2 years ago IRI has been recorded
	Lanes	Direction A			x									
		Direction B			x									
	Length - Total (km)	Direction A			x									
		Direction B			x									
	Length - Open Road (km)	Direction A			x									
		Direction B			x									
	Length - Tunnels (km)	Direction A			x									
		Direction B			x									
	Length - Bridges over 12m length (km)	Direction A			x									
		Direction B			x									
	Tunnels	Direction A (absolute number)			x									
		Direction B (absolute number)			x									
	Parking areas	Direction A (absolute number)		x										
		Direction B (absolute number)		x										
	Fuel Stations	Direction A (absolute number)		x										
		Direction B (absolute number)		x										
		Type of fuels (Diesel, Gas, CNG, LNG, Hydrogen, Charging Point)		x										
	Design Speed	km per hour		x										
	Speed limit	km per hour			x									
	Operating Speed	km per hour		x										
	Max Longitudinal Gradient (%)	Direction A			x									
		Direction B			x									
	Max Permitted Weight	per vehicle (tons)		x										
		axle load (kN)		x										
	Capacity	minimum lane capacity per hour (PCUs) for both directions		x										
	Tolled	yes/ no		x										
	Type of Tolls	per km/ per day		x										
	Charging Method	stations/ free flow/ vignette/ GNSS		x										
	Number of Toll Station Lanes	manned/ electronic		x										
	Intelligent Transport Systems (ITS)	yes/no			x									The tunnels on the TEN-T network are in installation phase. Highways have ITS.
	Type of ITS	list all ITS installed			x									
	Operation Supervised by Control Centre	yes/ no			x									
	Data valid from	year												
	Data valid to	year			x	x								
TEN-T Compliance	TEN-T Requirements Compliant	yes/no as per art. 17.3 (a) and (b) of Regulation 1315/2013			x	x								
	Alternative Fuels Availability	yes/no as per Directive no. 2014/94/EU			x	x								
	ITS Compliance	yes/no as per Directive 2010/40/EU			x	x								
	Tolling Interoperability	yes/no as per Directive 2004/52/EC and Commission Decision no.			x	x								
	Safety Compliance	yes/no as per Directive 2008/96/EC			x	x								
	Road Tunnels Compliance (length >500m)	yes/no as per Directive 2004/54/EC			x	x								
	Data valid from	year												
	Data valid to	year												

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Web GIS	Excel	Word	GIS	Visio	MS Project	MS Access	Adobe PDF	Other	Data Collection Frequency - RP	Comments
Operations Data	Total traffic flow	AADT or vehicles per year			x									
	Passenger cars	AADT or vehicles per year		x										
	Busses	AADT or vehicles per year		x										
	Trucks	AADT or vehicles per year		x										
	International traffic	% of AADT or total traffic flow		x										Only for motorways
	Percentage of HGVs	% of AADT or total traffic flow		x										Only for motorways
	Freight traffic flow	tons per year		x										Only for motorways
		vehicles per year		x										Only for motorways
	Dangerous goods vehicles	Number per year or % of AADT or total traffic flow		x										Only for motorways
	Passengers	number		x										Only for motorways
	Average travel time (PCs)	in minutes		x										Only for motorways
	Average travel time (HVGs)	in minutes		x										Only for motorways
	Toll Rate Currency	Currency (e.g. Euro)		x										
	Toll Rate Passenger Cars	per km (e.g. Euro per km)		x										
		per day (e.g. Euro per day)		x										
	Toll Rate Heavy Good Vehicles	per km (e.g. Euro per km)		x										
		per day (e.g. Euro per day)		x										
	% toll evasion	% of vehicles		x										
	Data valid for	year												
Road Safety	Total number of road traffic crash	absolute number			x									
	Road traffic crash with serious injuries only	absolute number			x									
	Fatal road traffic crash	absolute number			x									
	Chainage (km position) of road traffic crashes with injury/ fatality				x									
	Total injured	number of persons			x									
	Seriously injured	number of persons			x									
	Fatalities	number of persons			x									
	Road Safety Audit carried out at design stage	yes/ no			x									
	Section ranked as high/risk	yes/ no			x									
	Road Safety Inspections carried out	Total number			x									
		Corresponding dates			x									
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per km per year			x									
	Maintenance cost - Open Road	Euros per km per year			x									
	Maintenance cost - Tunnel	Euros per km per year			x									
	Maintenance cost - Bridges	Euros per km per year			x									
	Heavy/ Periodic Maintenance Cost	Euros per km per year (Activities on a section of road at regular and relatively long intervals, aims to preserve the structural integrity of the			x									
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention, such as collapsed culverts or landslides that block a			x									
	Winter Maintenance Cost	Euros per km per year			x									
	Routine Maintenance Cost	Euros per km per year (The rest of maintenance cost for the said year)			x									
	Source of finance				x									
	Data valid for	year												
Heavy/ Periodic Maintenance Requirements	Requiring rehabilitation - Open Road	length of section (km)			x									
	Requiring rehabilitation - Tunnel	length of section (km)			x									
	Requiring rehabilitation - Bridges	length of section (km)			x									
	Requiring heavy/ periodic maintenance - Open Road	length of section (km)			x									
	Requiring heavy/ periodic maintenance - Tunnel	length of section (km)			x									
	Requiring heavy/ periodic maintenance - Bridges	length of section (km)			x									
	Data valid for	year			x									
Upgrading	Requiring upgrade to increase capacity - Open Road	length of section (km)			x									
	Requiring upgrade to increase capacity - Tunnel	length of section (km)			x									
	Requiring upgrade to increase capacity - Bridges	length of section (km)			x									
	Data valid for	year			x									

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Mobile	WFS	API	Mobile Apps	Other	Data Collection Frequency - RP	Comments
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x										
	CO2 emissions			x										
	NOx emissions			x										
	SO2 emission evolution			x										
	Non-methane hydrocarbons			x										
	Particulate matter (ppm)			x										
	Noise	Noise levels along the section		x										
	Climate change resilience	number of flooding incidents		x										
		number of closures due to adverse weather conditions		x										
		number of embankment failures		x										
		number of winter maintenance days		x										
	Data valid for	year												
Geospatial data	Location of Road	Line geometry					x							
	Location of tunnels	Line geometry or Point geometry or x,y coordinates					x							
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates					x							
	Location of parking areas	Line geometry or Point geometry or x,y coordinates		x										
	Location of fuel stations	Point geometry or x,y coordinates		x										
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates					x							
	Data valid for	year												

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Mobile	WFS	API	Mobile Apps	Other	Data Collection Frequency - RP	Comments
Reporting Organization Data	Name of responsible Company/Authority		Roads of Republic Srpska			x								
	Correspondence Address					x								
	Contact Person					x								
	Position					x								
	Phone number					x								
	Email					x								
Localisation	Country Code					x								
	TEN-T Category	Core/ Comprehensive				xx								
	Corridor/ Route	Before project implementation				x								
		After project implementation				x								
	International Route ID	Before project implementation				x								
		After project implementation				x								
	National Route ID	Before project implementation				x								
		After project implementation				x								
	Start Node Name	Before project implementation				x								
		After project implementation				x								
	End Node Name	Before project implementation				x								
		After project implementation				x								
	Start km	Direction A - Before project implementation				x								
		Direction A - After project implementation				x								
		Direction B - Before project implementation				x								
		Direction B - After project implementation				x								
	End km	Direction A - Before project implementation				x								
		Direction A - After project implementation				x								
		Direction B - Before project implementation				x								
		Direction B - After project implementation				x								
Description of the Project	Project name	Text				x								
	Type of foreseen intervention	New infrastructure Reconstruction/rehabilitation Maintenance Horizontal/policy measure				x								
	Length (if linear)	Km/NA				x								
	Lanes	Direction A				x								
		Direction B				x								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory				x								
Eligibility for TEN-T Project	Motorway/expressway	yes/no (new construction)				x								
	Other high-quality roads	yes/no (new construction)				x								
	Road rehabilitation/reconstruction	yes/ no (targeting capacity increase or road surface quality upgrade from very poor/poor/medium condition (IRI>2,84 to good/very good				x								
	Alternative fuels	yes/no		x		x								
	ITS compliance	yes/no				x								
	Tolling interoperability	yes/no				x								
	Safety compliance	yes/no				x								
	Road tunnels compliance	yes/no				x								
TEN-T Compliance	TEN-T Requirements Compliant	Before project implementation (yes/no)				x								
		After project implementation (yes/no)				x								
	Alternative Fuels Availability	Before project implementation (yes/no)				x								
		After project implementation (yes/no)				x								
	ITS Compliance	Before project implementation (yes/no)				x								
		After project implementation (yes/no)				x								
	Tolling Interoperability	Before project implementation (yes/no)				x								
		After project implementation (yes/no)				x								
	Safety Compliance	Before project implementation (yes/no)				x								
		After project implementation (yes/no)				x								
	Road Tunnels Compliance (length >500m)	Before project implementation (yes/no)				x								
		After project implementation (yes/no)				x								
Project Status	Implemented	Project completed and put in operation				x								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.				x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-going.				x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.				x								

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
IMPLEMENTED PROJECTS														
Project Timeline	Initial Project Completion Date	On tender issue			x									
	Actual Project Completion Date				x									
Project Funding Sources	National Budget	Euros			x									
	WB	Euros			x									
	EBRD	Euros			x									
	EIB	Euros			x									
	Other IFI	Specify			x									
		Euros			x									
	Concessions	Specify			x									
		Euros			x									
	EU Fund	Specify			x									
		Euros			x									
	Other funding source	Specify			x									
		Euros												
Project Documentation	Project Folder Title	(As built documentation or if not available then final design			x									
	Prepared by				x									
	Supervised by				x									
Performance Indicators	Construction period	Forecasted (months)			x									
		Actual (months)			x									
	CAPEX	Forecasted (Euros)			x									
		Actual (Euros)			x									
	OPEX	Forecasted (Euros per year)			x									
		Actual (Euros per year)			x									
	Maintenance cost	Forecasted (Euros per year)			x									
		Actual (Euros per year)			x									
	Interest During Construction	%		x										
	EBITDA (last year)	Euros		x										
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			x									
		Actual (Euros per year)			x									
	Traffic	Passenger cars - forecasted			x									
		Passenger cars - actual			x									
		Busses - forecasted			x									
		Busses - actual			x									
		Trucks - forecasted			x									
		Trucks - actual			x									
LIVE PROJECTS														
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			x									
		Current Estimation. Please refer to realistic targets rather than contractual			x									
		Actual			x									
	Design Completion Date (month/ year)	Forecasted (on tender issue)			x									
		Current Estimation. Please refer to realistic targets rather than contractual			x									
		Actual			x									
	Project Completion Date (month/ year)	Forecasted (on tender issue)			x									
		Current Estimation. Please refer to realistic targets rather than contractual			x									
Project Funding Sources	National Budget	Euros			x									
		allocated/ agreement signed (yes/no)			x									
	WB	Euros			x									
		allocated/ agreement signed (yes/no)			x									
	EBRD	Euros			xx									
		allocated/ agreement signed (yes/no)			x									
	EIB	Euros			x									
		allocated/ agreement signed (yes/no)			x									
	Other IFI	Specify			x									
		Euros			x									
		allocated/ agreement signed (yes/no)			x									
	Concessions	Specify			x									
		Euros			x									
		allocated/ agreement signed (yes/no)			x									
	EU Fund	Specify			x									
		Euros			x									
		allocated/ agreement signed (yes/no)			x									
	Other funding source	Specify			x									
		Euros			x									
		allocated/ agreement signed (yes/no)			x									

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Technical Project Status	Pre-Feasibility Study	yes/no			x									
	Feasibility Study	yes/no			x									
	Concept Design	yes/no			x									
	Preliminary Design	yes/no			x									
	Detail Design	yes/no			x									
	Environmental Impact Assessment	yes/no			x									
Project Documentation	Feasibility Study	Title			x									
		Prepared by			x									
		Supervised by			x									
	Concept Design	Title			x									
		Prepared by			x									
		Supervised by			x									
	Preliminary Design	Title			x									
		Prepared by			x									
		Supervised by			x									
	Detail Design	Title			x									
		Prepared by			x									
		Supervised by			x									
	Environmental Impact Assessment	Title			x									
		Prepared by			x									
		Supervised by			x									
Social Indicators	Annual Traffic Demand Growth	%			x									
	Modal transfer	% (if applicable)			x									
	Annual Accident Rate Reduction	% (if applicable)			x									
Economic Indicators	EIRR (Economic Internal Rate of Return)	%			x									
	NPV (Net Present Value)	Euros			x									
	SDR (Social Discount Rate)	%			x									
	Project Planning & Design Cost	Euros			x									
	Project Construction Cost	Euros			x									
	Total Project Cost	Euros			x									
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			x									
	FNPV (Financial Net Present Value)	Euros			x									
	FDR (Financial Discount Rate)	%			x									
	WACC (Weighted Average Cost of Capital)	%			x									
	First year of profit	year			x									
	DSCR (Debt Service Coverage Ratio)	%			x									
Environmental Indicators	CO2 emissions	+/- %			x									
	NOx emissions	+/- %			x									
	SO2 emission evolution	+/- %			x									
	Non-methane hydrocarbons	+/- %			x									
	Particulate matter (ppm)	+/- %			x									
	Noise levels along the section	+/- %			x									
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience			x									
	Protected Natural Areas Affected	km2			x									
Geospatial data	Location of Road	Line geometry					x							
	Location of tunnels	Line geometry or Point geometry or x,y coordinates					x							
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates					x							
	Location of parking areas	Line geometry or Point geometry or x,y coordinates					x							
	Location of fuel stations	Point geometry or x,y coordinates					x							

Bosnia and Herzegovina (Srpska Republic) - data availability and format

Road Safety

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	ARCGIS Web	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company//Authority		Roads of Republic Srpska		x									
	Correspondence Address				x									
	Contact Person				x									
	Position				x									
	Phone number				x									
	Email				x									
Localisation	Country Code				x									
	Population	number of inhabitants			x									
	Fleet size	number of registered vehicles			x									
Road Safety Data	Total number of road traffic crashes	number			x									
	Total number of road traffic crashes - Motorway (tolled)	number			x									
	Total number of road traffic crashes - Motorway (toll-free)	number			x									
	Total number of road traffic crashes - Primary Roads (dual carria	number			x									
	Total number of road traffic crashes - Primary Roads (single carr	number			x									
	Total number of road traffic crashes - Secondary Roads	number			x									
	Total number of road traffic crashes - Rural Roads	number			x									
	Total number of road traffic crashes - Urban Roads	number			x									
	Road traffic crashes with serious injuries only	number			x									
	Fatal road traffic crashes	number			x									
	Seriously injured	number of persons			x									
	Fatalities	number of persons			x									
	Cause of accident (%)	alcohol												
		speed												
		infrastructure												
		use of electronic devices (mobile phone, GPS, etc)												
		vehicle not corresponding to standard			x									
	Data valid for	year												

Kosovo - Data availablity and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	ARCGIS Web	Other	Data Collection Frequency - RP	Comments
Reporting Organization Data	Name of responsible Company/Authority												Annually	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code		Civil Aviation Authority		x	x								
	TEN-T Category	Core/ Comprehensive	Civil Aviation Authority		x	x								
	Node Name		Civil Aviation Authority		x	x								
	Ownership Type	Government/ Private/ Mixed	Ministry of Finance - PPP Unit											Information provided by CAA
	Owner #1	Name	Ministry of Finance - PPP Unit											
	Ownership Percentage	%	Ministry of Finance - PPP Unit											
	Owner #x	Name	Ministry of Finance - PPP Unit											
	Ownership Percentage	%	Ministry of Finance - PPP Unit											
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Type	International/ Domestic	Civil Aviation Authority		x	x								
	Activity	Freight/ Passenger/ Passenger and freight	Civil Aviation Authority		x	x								
	Condition	Very Good Good Medium Poor Very Poor	Civil Aviation Authority		x	x								
	Number of runaways	number	Civil Aviation Authority		x	x								
	Number of passenger terminals	number	Civil Aviation Authority		x	x								
	IATA Landing Slot Classification	Level 1 (Non-Coordinated Airport) Level 2 (Schedules Facilitated Airport) Level 3 (Coordinated Airport)	Civil Aviation Authority		x	x								
	ICAO Airport Classification	Code A (Airplane Wingspan less than 15m; Outer Main Gear Wheel Span less than 4.5m) Code B (Airplane Wingspan from 15m up to less than 24m; Outer Main Gear Wheel Span from 4.5m up to less than 6m) Code C (Airplane Wingspan from 24m up to less than 36m; Outer Main Gear Wheel Span from 6m up to less than 9m)	Civil Aviation Authority		x	x								
	ILS Category	I II III A III B III C	Civil Aviation Authority		x	x								
	Length of longest runway	meters	Civil Aviation Authority		x	x								
	Passenger terminals area	m2	Civil Aviation Authority		x	x								
	Apron area	m2	Civil Aviation Authority		x	x								
	Declared Capacity	Declared number of aircraft movements that can be scheduled per hour at	Civil Aviation Authority		x	x								
	Apron Capacity	Number of airplanes on the apron at the same time	Civil Aviation Authority		x	x								
	Runway Capacity	Flights per hour	Civil Aviation Authority		x	x								
	Passenger Capacity	Passengers per year	Civil Aviation Authority		x	x								
	Freight Capacity	tons per year	Civil Aviation Authority		x	x								
	Rail Connection	yes - integrated to long distance rail network yes - rail shuttle no - other public shuttle no - no public shuttle connection	Civil Aviation Authority		x	x								
	Intelligent Transport Systems (ITS)	European air traffic management network (EATMN)	Civil Aviation Authority		x	x								
		1. Systems and procedures for airspace management.	Civil Aviation Authority		x	x								
		2. Systems and procedures for air traffic flow management.	Civil Aviation Authority		x	x								
		3. Systems and procedures for air traffic services, in particular flight data processing systems, surveillance data processing systems and human-	Civil Aviation Authority		x	x								
		4. Communications systems and procedures for ground-to-ground, air-to-	Civil Aviation Authority		x	x								
		5. Navigation systems and procedures.	Civil Aviation Authority		x	x								
		6. Surveillance systems and procedures.	Civil Aviation Authority		x	x								
		7. Systems and procedures for aeronautical information services.	Civil Aviation Authority		x	x								
		8. Systems and procedures for the use of meteorological information.	Civil Aviation Authority		x	x								
		9. Others	Civil Aviation Authority		x	x								
	Data valid from	year												
	Data valid to	year												
TEN-T Compliance	Rail Connection	yes/no	Civil Aviation Authority		X	X								
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)	Civil Aviation Authority		X	X								
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-	Civil Aviation Authority		X	X								
	Data valid from	year												
	Data valid to	year												

Kosovo - Data availablity and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	ARCGIS Web	Other	Data Collection Frequency - RP	Comments
Operations Data	Throughput	number of commercial aircraft movements per year	Civil Aviation Authority		X	X								
	Passenger traffic	passengers per year	Civil Aviation Authority		X	X								
	Freight traffic	tons of cargo per year	Civil Aviation Authority		X	X								
	Type of aircraft movements by type of operation	network carrier	Civil Aviation Authority											
		low cost carrier	Civil Aviation Authority		X	X								
		charter	Civil Aviation Authority											
		cargo	Civil Aviation Authority											
	Passenger transit	%		X										
	Arrivals	%		X										
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per year	Ministry of Finance - PPP Unit											Information provide by CAA
	Maintenance cost - Passenger terminals	Euros per year	Ministry of Finance - PPP Unit											
	Maintenance cost - Freight terminals	Euros per year	Ministry of Finance - PPP Unit											
	Maintenance cost - Runways	Euros per year	Ministry of Finance - PPP Unit											
	Source of finance		Ministry of Finance - PPP Unit											
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	Terminal Building	Civil Aviation Authority		X	X								
	Requiring upgrade to increase runway length	Runway Length	Civil Aviation Authority		X	X								
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		X										
	CO2 emissions			X										
	NOx emissions			X										
	SO2 emission evolution			X										
	Non-methane hydrocarbons			X										
	Particulate matter (ppm)			X										
	Climate change resilience	number of flooding incidents		X										
		number of closures due to adverse weather conditions												
	Data valid for	year												
Geospatial data	Location of the Airport	Point geometry or x,y coordinates		X										
	Data valid for	year												

Kosovo - Data availablity and formats

Airports - Project Monitoring

Category	Parameter	Details	Source	Info not available	Excel	Word	GIS	Web	MPS	API	Archive data	Other	Data Collection Frequency - EP	Comments
Reporting Organization Data	Name of responsible Company/Authority												Annually	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code		CAA											
	TEN-T Category	Core/ Comprehensive	CAA											
	Node Name		CAA											
Description of the Project	Project name	Text	CAA											
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance,	CAA											
	Length (if linear)	Km/NA	CAA											
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory	Ministry of Finance - PPP Unit											Information provided by CAA
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual	CAA											
Eligibility for TEN-T Project	Rail Connection	yes/no	CAA											
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)	CAA											
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-	CAA											
TEN-T Compliance	Rail connection	Before project implementation (yes/no)	CAA											
		After project implementation (yes/no)	CAA											
	Clean fuels availability	Before project implementation (yes/no)	CAA											
		After project implementation (yes/no)	CAA											
	Terminal Availability	Before project implementation (yes/no)	CAA											
		After project implementation (yes/no)	CAA											
Project Status	Implemented	Project completed and put in operation	CAA											
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.	CAA											
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started.	CAA											
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.	CAA											
IMPLEMENTED PROJECTS														
Project Timeline	Initial Project Completion Date	On tender issue	Ministry of Finance - PPP Unit											Infromation provided by CAA
	Actual Project Completion Date		Ministry of Finance - PPP Unit											
Project Funding Sources	National Budget	Euros	Ministry of Finance - PPP Unit											
	WB	Euros	Ministry of Finance - PPP Unit											
	EBRD	Euros	Ministry of Finance - PPP Unit											
	EIB	Euros	Ministry of Finance - PPP Unit											
	Other IFI	Specify	Ministry of Finance - PPP Unit											
		Euros	Ministry of Finance - PPP Unit											
	Concessions	Specify	Ministry of Finance - PPP Unit											
		Euros	Ministry of Finance - PPP Unit											
	EU Fund	Specify	Ministry of Finance - PPP Unit											
		Euros	Ministry of Finance - PPP Unit											
	Other funding source	Specify	Ministry of Finance - PPP Unit											
		Euros	Ministry of Finance - PPP Unit											
Project Documentation	Project Folder Title	(As built documentation or if not available then final design	CAA											
	Prepared by		CAA											
	Supervised by		CAA											
Performance Indicators	Construction period	Forecasted (months)	Ministry of Finance - PPP Unit											Information provided by CAA
		Actual (months)	Ministry of Finance - PPP Unit											
	CAPEX	Forecasted (Euros)	Ministry of Finance - PPP Unit											
		Actual (Euros)	Ministry of Finance - PPP Unit											
	OPEX	Forecasted (Euros per year)	Ministry of Finance - PPP Unit											
		Actual (Euros per year)	Ministry of Finance - PPP Unit											
	Maintenance cost	Forecasted (Euros per year)	Ministry of Finance - PPP Unit											
		Actual (Euros per year)	Ministry of Finance - PPP Unit											
	Interest During Construction	%	Ministry of Finance - PPP Unit											
	EBITDA (last year)	Euros	Ministry of Finance - PPP Unit											
	Revenue (if fare/toll collected)	Forecasted (Euros per year)	Ministry of Finance - PPP Unit											
		Actual (Euros per year)	Ministry of Finance - PPP Unit											
	Traffic	Throughput - forecasted	Ministry of Finance - PPP Unit											
		Throughput - actual	Ministry of Finance - PPP Unit											
		Passenger traffic - forecasted	Ministry of Finance - PPP Unit											
		Passenger traffic - actual	Ministry of Finance - PPP Unit											
		Freight (tn) - forecasted	Ministry of Finance - PPP Unit											
		Freight (tn) - actual	Ministry of Finance - PPP Unit											
LIVE PROJECTS														

Kosovo - Data availablity and formats

Airports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	MIS	IFI	Mobile App	Other	Data Collection Frequency - RP	Comments
Project Timeline	Tender Start Date (month/ year)	Initially forecasted	CAA											
		Current Estimation. Please refer to realistic targets rather than contractual	CAA											
		Actual	CAA											
	Design Completion Date (month/ year)	Forecasted (on tender issue)	CAA											
		Current Estimation. Please refer to realistic targets rather than contractual	CAA											
		Actual	CAA											
	Project Completion Date (month/ year)	Forecasted (on tender issue)	CAA											
		Current Estimation. Please refer to realistic targets rather than contractual	CAA											
Project Funding Sources	National Budget	Euros	Ministry of Finance - PPP Unit											Information provided by CAA
		allocated/ agreement signed (yes/no)												
	WB	Euros												
		allocated/ agreement signed (yes/no)												
	EBRD	Euros												
		allocated/ agreement signed (yes/no)												
	EIB	Euros												
		allocated/ agreement signed (yes/no)												
	Other IFI	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	Concessions	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	EU Fund	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	Other funding source	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
Technical Project Status	Pre-Feasibility Study	yes/no	CAA											
	Feasibility Study	yes/no	CAA											
	Concept Design	yes/no	CAA											
	Preliminary Design	yes/no	CAA											
	Detail Design	yes/no	CAA											
	Environmental Impact Assessment	yes/no	CAA											
Project Documentation	Feasibility Study	Title	CAA											
		Prepared by												
		Supervised by												
	Concept Design	Title	CAA											
		Prepared by												
		Supervised by												
	Preliminary Design	Title	CAA											
		Prepared by												
		Supervised by												
	Detail Design	Title	CAA											
		Prepared by												
		Supervised by												
	Environmental Impact Assessment	Title	CAA											
		Prepared by												
		Supervised by												
Social Indicators	Annual Traffic Demand Growth	%	Ministry of Finance - PPP Unit											Information provided by CAA
	Modal transfer	% (if applicable)	Ministry of Finance - PPP Unit											
	Annual Accident Rate Reduction	% (if applicable)	Ministry of Finance - PPP Unit											
Economic Indicators	EIRR (Economic Internal Rate of Return)	%	Ministry of Finance - PPP Unit											
	NPV (Net Present Value)	Euros	Ministry of Finance - PPP Unit											
	SDR (Social Discount Rate)	%	Ministry of Finance - PPP Unit											
	Project Planning & Design Cost	Euros	Ministry of Finance - PPP Unit											
	Project Construction Cost	Euros	Ministry of Finance - PPP Unit											
	Total Project Cost	Euros	Ministry of Finance - PPP Unit											
Financial Indicators	FIRR (Financial Internal Rate of Return)	%	Ministry of Finance - PPP Unit											
	FNPV (Financial Net Present Value)	Euros	Ministry of Finance - PPP Unit											
	FDR (Financial Discount Rate)	%	Ministry of Finance - PPP Unit											
	WACC (Weighted Average Cost of Capital)	%	Ministry of Finance - PPP Unit											
	First year of profit	year	Ministry of Finance - PPP Unit											
	DSCR (Debt Service Coverage Ratio)	%	Ministry of Finance - PPP Unit											
Environmental Indicators	CO2 emissions	+/- %	Ministry of Finance - PPP Unit											
	NOx emissions	+/- %	Ministry of Finance - PPP Unit											
	O2 emission evolution	+/- %	Ministry of Finance - PPP Unit											
	Non-methane hydrocarbons	+/- %	Ministry of Finance - PPP Unit											
	Particulate matter (ppm)	+/- %	Ministry of Finance - PPP Unit											
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience	Ministry of Finance - PPP Unit											
	Protected Natural Areas Affected	km2	Ministry of Finance - PPP Unit											

Kosovo - Data availablity and formats

Airports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	MIS	IFI	Mobile App	Other	Data Collection Frequency - RP	Comments
Geospatial data	Location of the Airport	Point geometry or x,y coordinates												

Kosovo - Data availablity and formats

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority												Weekly
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	Border with	country code	Kosovo Customs/ Kosovo Police			x							
	Corridor/ Route		Kosovo Customs/ Kosovo Police			x							
	Border Crossing Name		Kosovo Customs/ Kosovo Police			x							
	TEN-T Category	Core/ Comprehensive/ Not in TEN-T	Kosovo Customs/ Kosovo Police			x							
	Green Lanes	yes/no/planned	Kosovo Customs/ Kosovo Police			x							
	One-stop procedure (Joint Border)	yes/no/planned	Kosovo Customs/ Kosovo Police			x							
		indicate type of joint BCP (for passengers/for goods/ collocated on the terr	Kosovo Customs/ Kosovo Police			x							
Operations	Type of Controls/ Inspections Performed	phytosanitary	Kosovo Customs/ Kosovo Police			x							
		veterinary	Kosovo Customs/ Kosovo Police			x							
		radiological	Kosovo Customs/ Kosovo Police			x							
		other non-trade related controls (road charges collection, vehicles technica	Kosovo Customs/ Kosovo Police			x							
	Data valid for	year											
Infrastructure	Number of lanes for trucks	entering	Kosovo Police			x							
		exiting	Kosovo Police			x							
	Number of lanes for buses	entering	Kosovo Police			x							
		exiting	Kosovo Police			x							
	Number of lanes for passenger cars	entering	Kosovo Customs/ Kosovo Police			x							
		exiting	Kosovo Customs/ Kosovo Police			x							
	Separate parking zones for trucks	yes/no	Kosovo Customs/ Kosovo Police			x							
	If yes, then truck parking capacity	vehicles	Kosovo Customs/ Kosovo Police			x							
	Truck queuing capacity	vehicles		x									
	State of play (customs/border police/other border agencies)	Booths (separate/ joint)	Kosovo Customs/ Kosovo Police			x							
		Data Systems (separate/ joint)	Kosovo Customs/ Kosovo Police			x							
		Physical inspection facilities (yes/ no)	Kosovo Customs/ Kosovo Police			x							
	Systematic Electronic Exchange of Data (SEED)	yes/no/planned	Kosovo Customs			x							
	New Computerized Transport System (NCTS)	yes/no/planned		x									
	eQMS (Queue Management System)	yes/no/planned		x									
	Other Electronic Information System	yes/no/planned	Kosovo Customs/ Kosovo Police			x							
	Type of ITS	list all ITS installed		x									
	Data valid for	year											
Operations - Rail	Passenger Trains entering	number per 24 hours	Kosovo Police		x	x							
	Freight Trains entering	number per 24 hours	Kosovo Police		x	x							
	Dangerous Goods Trains/ Wagons entering	number per 24 hours	Kosovo Police		x	x							
	Average entry time passenger trains	minutes	Kosovo Customs/ Kosovo Police		x	x							
	Average entry time freight trains	minutes	Kosovo Customs/ Kosovo Police		x	x							
	Passenger Trains exiting	number per 24 hours	Kosovo Police		x	x							
	Freight Trains exiting	number per 24 hours	Kosovo Police		x	x							
	Dangerous Goods Trains/ Wagons exiting	number per 24 hours	Kosovo Police		x	x							
	Average exit time passenger trains	minutes		x									
	Average exit time freight trains	minutes		x									
	Data valid for	year											

Kosovo - Data availablity and formats

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Operations - Road	Passenger Cars entering	number per 24 hours (or week/ month/ year)	Kosovo Police		x	x							
	Buses entering	number per 24 hours (or week/ month/ year)	Kosovo Police		x	x							
	Freight Vehicles entering	number per 24 hours (or week/ month/ year)	Kosovo Police		x	x							
	Dangerous Goods Vehicles entering	number per 24 hours (or week/ month/ year)	Kosovo Customs		x	x							
	Passenger Cars entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)	Kosovo Police		x	x							
	Freight Vehicles entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Buses entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Passenger Cars entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosani	Kosovo Customs/ Kosovo Police		x	x							
	Freight Vehicles entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosani	Kosovo Customs/ Kosovo Police		x	x							
	Buses entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosani	Kosovo Customs/ Kosovo Police		x	x							
	Freight vehicles cleared by customs at the BCP	% of total freight vehicle volume	Kosovo Customs/ Kosovo Police		x	x							
	Freight vehicles entering for Import	% of total freight vehicle volume	Kosovo Customs		x	x							
	Freight vehicles entering Transit	% of total freight vehicle volume	Kosovo Customs		x	x							
	Freight vehicles entering Empty	% of total freight vehicle volume	Kosovo Police		x	x							
	Passenger Cars exiting	number per 24 hours (or week/ month/ year)	Kosovo Police		x	x							
	Buses exiting	number per 24 hours (or week/ month/ year)	Kosovo Customs/ Kosovo Police		x	x							
	Freight Vehicles exiting	number per 24 hours (or week/ month/ year)	Kosovo Police		x	x							
	Dangerous Goods Vehicles Exiting	number per 24 hours (or week/ month/ year)	Kosovo Customs		x	x							
	Passenger Cars exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Freight Vehicles exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Buses exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Passenger Cars exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosani	Kosovo Customs/ Kosovo Police		x	x							
	Freight Vehicles exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosani	Kosovo Customs/ Kosovo Police		x	x							
	Buses exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspec		x									
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	Terminal Building	Kosovo Customs/ Kosovo Police		x	x							
	Requiring upgrade to IT Systems/ ITS	Adoption of New Computerized Transport System (NCTS)	Kosovo Customs/ Kosovo Police		x	x							
	Data valid for	year											
Geospatial data	Location of the border crossings	Point geometry or x,y coordinates	Kosovo Customs/ Kosovo Police					x					
	Data valid for	year											

Kosovo - Data availablity and formats

EU Acquis

Category	Parameter	Input	Source	Info N/A	Excel	Word	Other
Reporting Organisation Data	Name of responsible Company/Authority	Ministry of Infrastructure/ Legal Department					
	Correspondence Address						
	Contact Person						
	Position						
	Phone number						
	Email						
EU Acquis Harmonisation	Is the status of EU Acquis harmonisation per individual EU legislation available? (yes/no)						
	If yes, then please provide the format this information is available in						
National Legislation	Is the list of National Legislation affected by the EU Acquis harmonisation available?						
	If yes, then please provide the format this information is available in						
Reporting	Please provide a list of the Reports you are already producing for EU Acquis.(Report title/Recipient)	yearly report has an EU Acquis section					
Methodology	Please provide a short description of the methodology you follow for the monitoring of the harmonisation process.						

Kosovo - Data availablity and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Kosovo Railways Infrastructure JSC - INFRAKOS										On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code					x							
	TEN-T Category	Core/ Comprehensive				x							
	Corridor/ Route					x							
	International Route ID			x									
	National Route ID			x									
	Start Node Name					x							
	End Node Name					x							
	Start km	Direction A				x							
		Direction B											
	End km	Direction A				x							
		Direction B											
	Status	Planned/ Existing/ Upgrade				x							
	Data valid from	year											
	Data valid to	year											
Infrastructure Data	Capacity	trains/ day				x							
	Track gauge	750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1602 / 1668				x							
	Load gauge	A GAUGE: Total height 3.85 m above t - he rail and 1.28 m on either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle				x							
	Condition of track (Operational/ Design Speed)	Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)				x							
	Number of tracks	Total (most relevant figures, e.g. if a single track railway of 10km has 2km				x							
	Traction	Diesel				x							
		Electrified				x							
	Rail voltage	25 000 Volts, 50Hz 15 000 Volts, 16 2/3 Hz 3 000 Volts, DC 1 500 Volts, DC 750 Volts DC 660 Volts DC 630 Volts DC		x									
	Length - Total (km)					x							
	Length - Open Track (km)					x							
	Length - Tunnels (km)					x							
	Length - Bridges over 12m length (km)					x							
	Tunnels	number				x							
	Level-Crossings	number				x							
	Max Design Speed	km per hour				x							
	Max Operating Speed	km per hour				x							
	Max Longitudinal Gradient (m per km)	Direction A				x							
		Direction B				x							
	Min radius	meters				x							
	Maximum train length	meters				x							
	Max Axle load	kN				x							
	Signalling Standard					x							
	Traffic Management					x							
	ERTMS in operation	yes/no				x							
	ERTMS level	1 - is designed as an add-on to or overlays a conventional line already equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard				x							
	Control & Command System	Specify which system is used to ensure safety and to command and control				x							
	Data valid from	year											
	Data valid to	year											

Kosovo - Data availablity and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	No to date	Other	Data Collection Frequency - RP
TEN-T Compliance	Electrification	yes/no (Not applicable for isolated networks. Applies to line trucks and				x							
	Railway Tunnels Compliance	yes/no as per Directive 2014/1303/EC as amended by 2016/912/EC and		x									
	Freight Line Speed	yes/no (At least 100km (Only applicable for the freight lines of the Core				x							
	Freight Line Axle Load	yes/no (At least 22.5t (Only applicable for the freight lines of the Core				x							
	Freight Line Train Length	yes/no (At least 750m (Only applicable for the freight lines of the Core				x							
	Track Gauge 1435mm	yes/no (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network the track gauge of which is				x							
	ERTMS Deployment	yes/no (European Train Control System (ETCS) - Not applicable for isolated				x							
		yes/no (Global System for Mobile communications for Railways (GSM-R) -				x							
	Data valid from	year											
	Data valid to	year											
Operations Data	Passenger Trains	number per 24 hours				x							
	Freight Trains	number per 24 hours				x							
	Dangerous Goods Freight Trains	number per 24 hours				x							
	Capacity used	% of capacity				x							
	Passenger traffic	number per year				x							
		passenger km per year				x							
	Freight traffic	tons per year				x							
		tkm per year				x							
	TEUs	TEU containers per year				x							
	Unitised	% in standard loading units				x							
	Non Unitised	% of bulk and general traffic				x							
	National traffic	% of total traffic				x							
	Average travel time passenger (incl. stops)	long distance trains only				x							
	Average travel time freight (incl. stops)	long distance trains only				x							
	Data valid for	year											
Safety	Number of Incidents	absolute number (as per Directive 2016/798/EU - Railway Safety)			x								
	Number of Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)			x								
	Number of Significant Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety and			x								
	Number of Serious Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)			x								
	Serious Accidents - Number of Serious Injuries	absolute number			x								
	Serious Accidents - Number of Fatalities	absolute number			x								
	Serious Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)			x								
	Serious Accidents - Amount of Material Damage	EUR per year			x								
	Serious Accidents - Disruption of traffic	hours per year			x								
	Serious Accidents - Indirect damages related to delays	EUR per year			x								
	Significant Accidents - Number of Significant Injuries	absolute number			x								
	Significant Accidents - Number of Fatalities	absolute number			x								
	Significant Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)			x								
	Significant Accidents - Amount of Material Damage	EUR per year			x								
	Significant Accidents - Disruption of traffic	hours per year			x								
	Significant Accidents - Indirect damages related to delays	EUR per year			x								
	Data valid for	year											
Regular Maintenance	Maintenance cost - Total	Euros per year per km				x							
	Maintenance cost - Total	Euros				x							
	Maintenance cost - Infrastructure	Euros per year (rail track, switches and crossings, tunnels, bridges, level				x							
	Maintenance cost - Signalling and telecom system	Euros per year (Maintenance of rail station signalling, automatic block system, automatic and mechanical level crossings, maintenance of railway				x							
	Maintenance cost - Electrification system	Euros per year (Maintenance of catenaries, electric railway substations,		x									
	Source of finance					x							
	Data valid for	year											
Heavy Maintenance	Requiring heavy maintenance	length of section (km)				x							
	Requiring rehabilitation	length of section (km)				x							
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	length of section (km)				x							
	Requiring upgrade (additional track/ new line)	length of section (km)				x							
	Data valid for	year											

Kosovo - Data availablity and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	No to date	Other	Data Collection Frequency - RP
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x									
	CO2 emissions			x									
	NOx emissions			x									
	SO2 emission evolution			x									
	Non-methane hydrocarbons			x									
	Particulate matter (ppm)			x									
	Noise	Noise levels along the section		x									
	Climate change resilience	number of flooding incidents		x									
		number of closures due to adverse weather conditions		x									
		number of embankment failures		x									
	Data valid for	year											
Geospatial data	Location of Railway Line	Line geometry										ACAD	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates										ACAD	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates										ACAD	
	Location of Stations	Line geometry or Point geometry or x,y coordinates										ACAD	
	Location of level crossings	Point geometry or x,y coordinates										ACAD	
	Location of serious accidents	Point geometry or x,y coordinates										ACAD	
	Data valid for	year											

Kosovo - Data availablity and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Web Viewer	Excel	Word	GIS	Shapefile	WMS	API	Mobile App	Other	Data Collection Frequency - RP
Reporting Organization Data	Name of responsible Company/Authority												On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	TEN-T Category	Core/ Comprehensive	Railway Regulatory Authority			x							
	Corridor/ Route	Before project implementation	Railway Regulatory Authority			x							
		After project implementation	Railway Regulatory Authority			x							
	International Route ID	Before project implementation	Railway Regulatory Authority				x	x					
		After project implementation	Railway Regulatory Authority				x	x					
	National Route ID	Before project implementation	Railway Regulatory Authority			x							
		After project implementation	Railway Regulatory Authority			x							
	Start Node Name	Before project implementation	Railway Regulatory Authority			x	x	x					
		After project implementation	Railway Regulatory Authority			x	x	x					
	End Node Name	Before project implementation	Railway Regulatory Authority			x	x	x					
		After project implementation	Railway Regulatory Authority			x	x	x					
	Start km	Direction A - Before project implementation	Railway Regulatory Authority		x	x	x	x					
		Direction A - After project implementation	Railway Regulatory Authority		x	x	x	x					
		Direction B - Before project implementation	Railway Regulatory Authority		x	x	x	x					
		Direction B - After project implementation	Railway Regulatory Authority		x	x	x	x					
	End km	Direction A - Before project implementation	Railway Regulatory Authority		x	x	x	x					
		Direction A - After project implementation	Railway Regulatory Authority		x	x	x	x					
		Direction B - Before project implementation	Railway Regulatory Authority		x	x	x	x					
		Direction B - After project implementation	Railway Regulatory Authority		x	x	x	x					
Description of the Project	Project name	Text	Railway Regulatory Authority			x	x						
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance,	Railway Regulatory Authority			x							
	Length (if linear)	Km/NA	Railway Regulatory Authority			x		x					
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory	Railway Regulatory Authority			x		x					
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual	Railway Regulatory Authority			x		x					
Eligibility for TEN-T Project	Electrification	yes/no	Railway Regulatory Authority			x		x					
	Line speed 100 km/h (freight)	yes/no	Railway Regulatory Authority			x							
	Axle load 22,5 t	yes/no	Railway Regulatory Authority			x							
	Track gauge	yes/no	Railway Regulatory Authority			x							
	Train length 740 m	yes/no	Railway Regulatory Authority		x	x	x						
	ERTMS Deployment (ETCS)	yes/no	Railway Regulatory Authority			x							
	ERTMS Deployment (GSM-R)	yes/no	Railway Regulatory Authority			x							
TEN-T Compliance	Electrification	Before project implementation (yes/no)	Railway Regulatory Authority			x							
		After project implementation (yes/no)	Railway Regulatory Authority			x							
	Line speed 100 km/h (freight)	Before project implementation (yes/no)	Railway Regulatory Authority			x							
		After project implementation (yes/no)	Railway Regulatory Authority			x							
	Axle load 22,5 t	Before project implementation (yes/no)	Railway Regulatory Authority			x							
		After project implementation (yes/no)	Railway Regulatory Authority			x							
	Track gauge	Before project implementation (yes/no)	Railway Regulatory Authority			x							
		After project implementation (yes/no)	Railway Regulatory Authority			x							
	Train length 740 m	Before project implementation (yes/no)	Railway Regulatory Authority			x							
		After project implementation (yes/no)	Railway Regulatory Authority			x							
	ERTMS Deployment (ETCS)	Before project implementation (yes/no)	Railway Regulatory Authority			x							
		After project implementation (yes/no)	Railway Regulatory Authority			x							
	ERTMS Deployment (GSM-R)	Before project implementation (yes/no)	Railway Regulatory Authority			x							
		After project implementation (yes/no)	Railway Regulatory Authority			x							

Kosovo - Data availablity and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Visio	WB	JPI	Meta data	Other	Data Collection Frequency - RP
Project Status	Implemented	Project completed and put in operation	Railway Regulatory Authority			x							
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.	Railway Regulatory Authority			x							
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-	Railway Regulatory Authority			x							
	Project under preparation	Fessibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.	Railway Regulatory Authority			x							
IMPLEMENTED PROJECTS													
Project Timeline	Initial Project Completion Date	On tender issue	INFRAKOS			x							
	Actual Project Completion Date		INFRAKOS			x							
Project Funding Sources	National Budget	Euros	INFRAKOS			x							
	WB	Euros	INFRAKOS			x							
	EBRD	Euros	INFRAKOS			x							
	EIB	Euros	INFRAKOS			x							
	Other IFI	Specify Euros	INFRAKOS			x							
	Concessions	Specify Euros	INFRAKOS			x							
	EU Fund	Specify Euros	INFRAKOS			x							
	Other funding source	Specify Euros	INFRAKOS			x							
Project Documentation	Project Folder Title	(As built documentation or if not available then final design	INFRAKOS			x							
	Prepared by		INFRAKOS			x							
	Supervised by		INFRAKOS			x							
Performance Indicators	Construction period	Forecasted (months) Actual (months)	INFRAKOS			x							
	CAPEX	Forecasted (Euros) Actual (Euros)	INFRAKOS			x							
	OPEX	Forecasted (Euros per year) Actual (Euros per year)	INFRAKOS			x							
	Maintenance cost	Forecasted (Euros per year) Actual (Euros per year)	INFRAKOS			x							
	Interest During Construction	%	INFRAKOS			x							
	EBITDA (last year)	Euros	INFRAKOS			x							
	Revenue (if fare/toll collected)	Forecasted (Euros per year) Actual (Euros per year)	INFRAKOS			x							
	Traffic	Train traffic - forecasted Train traffic - actual Passenger traffic - forecasted Passenger traffic - actual Freight (tn) - forecasted Freight (tn) - actual	Railway Regulatory Authority			x			x				
LIVE PROJECTS													
Project Timeline	Tender Start Date (month/ year)	Initially forecasted Current Estimation. Please refer to realistic targets rather than contractual Actual	INFRAKOS			x							
	Design Completion Date (month/ year)	Forecasted (on tender issue) Current Estimation. Please refer to realistic targets rather than contractual Actual	INFRAKOS			x							
	Project Completion Date (month/ year)	Forecasted (on tender issue) Current Estimation. Please refer to realistic targets rather than contractual	INFRAKOS			x							

Kosovo - Data availablity and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Visio	WB	JPI	Meta data	Other	Data Collection Frequency - RP
Project Funding Sources	National Budget	Euros allocated/ agreement signed (yes/no)	INFRAKOS			x							
	WB	Euros allocated/ agreement signed (yes/no)	INFRAKOS			x							
	EBRD	Euros allocated/ agreement signed (yes/no)	INFRAKOS			x							
	EIB	Euros allocated/ agreement signed (yes/no)	INFRAKOS			x							
	Other IFI	Specify Euros allocated/ agreement signed (yes/no)	INFRAKOS			x							
	Concessions	Specify Euros allocated/ agreement signed (yes/no)	INFRAKOS			x							
	EU Fund	Specify Euros allocated/ agreement signed (yes/no)	INFRAKOS			x							
	Other funding source	Specify Euros allocated/ agreement signed (yes/no)	INFRAKOS			x							
Technical Project Status	Pre-Feasibility Study	yes/no	INFRAKOS			x							
	Feasibility Study	yes/no	INFRAKOS			x							
	Concept Design	yes/no	INFRAKOS			x							
	Preliminary Design	yes/no	INFRAKOS			x							
	Detail Design	yes/no	INFRAKOS			x							
	Environmental Impact Assessment	yes/no	INFRAKOS			x							
Project Documentation	Feasibility Study	Title Prepared by Supervised by	INFRAKOS			x							
	Concept Design	Title Prepared by Supervised by	INFRAKOS			x							
	Preliminary Design	Title Prepared by Supervised by	INFRAKOS			x							
	Detail Design	Title Prepared by Supervised by	INFRAKOS			x							
	Environmental Impact Assessment	Title Prepared by Supervised by	INFRAKOS			x							
Social Indicators	Annual Traffic Demand Growth	%	INFRAKOS			x							
	Modal transfer	% (if applicable)		x									
	Annual Accident Rate Reduction	% (if applicable)		x									
Economic Indicators	EIRR (Economic Internal Rate of Return)	%	INFRAKOS			x							
	NPV (Net Present Value)	Euros	INFRAKOS			x							
	SDR (Social Discount Rate)	%	INFRAKOS			x							
	Project Planning & Design Cost	Euros	Railway Regulatory Authority			x		x					
	Project Construction Cost	Euros	Railway Regulatory Authority			x		x					
	Total Project Cost	Euros	Railway Regulatory Authority			x		x					
Financial Indicators	FIRR (Financial Internal Rate of Return)	%	INFRAKOS			x							
	FNPV (Financial Net Present Value)	Euros	INFRAKOS			x							
	FDR (Financial Discount Rate)	%	INFRAKOS			x							
	WACC (Weighted Average Cost of Capital)	%	INFRAKOS			x							
	First year of profit	year	INFRAKOS			x							
	DSCR (Debt Service Coverage Ratio)	%	INFRAKOS			x							

Kosovo - Data availablity and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WFS	API	Web Data	Other	Data Collection Frequency - RP
Environmental Indicators	CO2 emissions	+/- %		x									
	NOx emissions	+/- %		x									
	SO2 emission evolution	+/- %		x									
	Non-methane hydrocarbons	+/- %		x									
	Particulate matter (ppm)	+/- %		x									
	Noise levels along the section	+/- %		x									
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience		x									
	Protected Natural Areas Affected	km2		x									
Geospatial data	Location of Railway Line	Line geometry	Railway Regulatory Authority					x					
	Location of tunnels	Line geometry or Point geometry or x,y coordinates	Railway Regulatory Authority					x					
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates	Railway Regulatory Authority					x					
	Location of Stations	Line geometry or Point geometry or x,y coordinates	Railway Regulatory Authority					x					
	Location of level crossings	Point geometry or x,y coordinates	Railway Regulatory Authority					x					

Kosovo - Data availablity and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WFS	API	Web Data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Infrastructure and Transportation										On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code						x						
	TEN-T Category	Core/ Comprehensive					x						
	Corridor/ Route						x						
	International Route ID						x						
	National Route ID						x						
	Start Node Name						x						
	End Node Name						x						
	Start km	Direction A					x						
		Direction B					x						
	End km	Direction A					x						
		Direction B					x						
	Status	Planned/ Existing/ Upgrade					x						
	Data valid from	year					x						
	Data valid to	year					x						
Infrastructure Data	Category	Motorways/ Dual Carriageways/ Single Carriageways					x						
	Pavement Condition	1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing Course (NWC) (IRI [2.84- 5.09]) 3b. Medium PRH, describes a road which needs Pavement Rehabilitation					x						
	Lanes	Direction A					x						
		Direction B					x						
	Length - Total (km)	Direction A					x						
		Direction B					x						
	Length - Open Road (km)	Direction A					x						
		Direction B					x						
	Length - Tunnels (km)	Direction A					x						
		Direction B					x						
	Length - Bridges over 12m length (km)	Direction A					x						
		Direction B					x						
	Tunnels	Direction A (absolute number)					x						
		Direction B (absolute number)					x						
	Parking areas	Direction A (absolute number)					x						
		Direction B (absolute number)					x						
	Fuel Stations	Direction A (absolute number)					x						
		Direction B (absolute number)					x						
		Type of fuels (Diesel, Gas, CNG, LNG, Hydrogen, Charging Point)					x						
	Design Speed	km per hour					x						
	Speed limit	km per hour					x						
	Operating Speed	km per hour					x						
	Max Longitudinal Gradient (%)	Direction A					x						
		Direction B					x						
	Max Permitted Weight	per vehicle (tons)					x						
		axle load (kN)					x						
	Capacity	minimum lane capacity per hour (PCUs) for both directions					x						
	Tolled	yes/ no					x						
	Type of Tolls	per km/ per day					x						
	Charging Method	stations/ free flow/ vignette/ GNSS					x						
	Number of Toll Station Lanes	manned/ electronic					x						
	Intelligent Transport Systems (ITS)	yes/no					x						
	Type of ITS	list all ITS installed					x						
	Operation Supervised by Control Centre	yes/ no					x						
	Data valid from	year					x						
	Data valid to	year					x						
TEN-T Compliance	TEN-T Requirements Compliant	yes/no as per art. 17.3 (a) and (b) of Regulation 1315/2013				x							
	Alternative Fuels Availability	yes/no as per Directive no. 2014/94/EU				x							
	ITS Compliance	yes/no as per Directive 2010/40/EU				x							
	Tolling Interoperability	yes/no as per Directive 2004/52/EC and Commission Decision no.				x							
	Safety Compliance	yes/no as per Directive 2008/96/EC				x							
	Road Tunnels Compliance (length >500m)	yes/no as per Directive 2004/54/EC				x							
	Data valid from	year				x							
	Data valid to	year				x							

Kosovo - Data availablity and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WMS	API	Mobile data	Other	Data Collection Frequency - RP
Operations Data	Total traffic flow	AADT or vehicles per year			x								
	Passenger cars	AADT or vehicles per year			x								
	Busses	AADT or vehicles per year			x								
	Trucks	AADT or vehicles per year			x								
	International traffic	% of AADT or total traffic flow		x									
	Percentage of HGVs	% of AADT or total traffic flow			x								
	Freight traffic flow	tons per year			2011								
		vehicles per year			2011								
	Dangerous goods vehicles	Number per year or % of AADT or total traffic flow		x									
	Passengers	number			2011								
	Average travel time (PCs)	in minutes			2011								
	Average travel time (HVGs)	in minutes			2011								
	Toll Rate Currency	Currency (e.g. Euro)		n/a									
	Toll Rate Passenger Cars	per km (e.g. Euro per km)		n/a									
		per day (e.g. Euro per day)		n/a									
	Toll Rate Heavy Good Vehicles	per km (e.g. Euro per km)		n/a									
		per day (e.g. Euro per day)		n/a									
	% toll evasion	% of vehicles		n/a									
	Data valid for	year											
Road Safety	Total number of road traffic crash	absolute number		x									
	Road traffic crash with serious injuries only	absolute number		x									
	Fatal road traffic crash	absolute number		x									
	Chainage (km position) of road traffic crashes with injury/ fatality			x									
	Total injured	number of persons		x									
	Seriously Injured	number of persons		x									
	Fatalities	number of persons		x									
	Road Safety Audit carried out at design stage	yes/ no		x									
	Section ranked as high/risk	yes/ no		x									
	Road Safety Inspections carried out	Total number		x									
		Corresponding dates		x									
	Data valid for	year		x									
Regular Maintenance	Maintenance cost - Total	Euros per km per year			x								
	Maintenance cost - Open Road	Euros per km per year			x								
	Maintenance cost - Tunnel	Euros per km per year			x								
	Maintenance cost - Bridges	Euros per km per year			x								
	Heavy/ Periodic Maintenance Cost	Euros per km per year (Activities on a section of road at regular and relatively long intervals, aims to preserve the structural integrity of the			x								
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention, such as collapsed culverts or landslides that block a			x								
	Winter Maintenance Cost	Euros per km per year			x								
	Routine Maintenance Cost	Euros per km per year (The rest of maintenance cost for the said year)			x								
	Source of finance												
	Data valid for	year											
Heavy/ Periodic Maintenance Requirements	Requiring rehabilitation - Open Road	length of section (km)		planned									
	Requiring rehabilitation - Tunnel	length of section (km)		planned									
	Requiring rehabilitation - Bridges	length of section (km)		planned									
	Requiring heavy/ periodic maintenance - Open Road	length of section (km)		planned									
	Requiring heavy/ periodic maintenance - Tunnel	length of section (km)		planned									
	Requiring heavy/ periodic maintenance - Bridges	length of section (km)		planned									
	Data valid for	year		planned									
Upgrading	Requiring upgrade to increase capacity - Open Road	length of section (km)			x								
	Requiring upgrade to increase capacity - Tunnel	length of section (km)			x								
	Requiring upgrade to increase capacity - Bridges	length of section (km)			x								
	Data valid for	year			x								

Kosovo - Data availablity and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WMS	API	Mobile data	Other	Data Collection Frequency - RP
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x									
	CO2 emissions			x									
	NOx emissions			x									
	SO2 emission evolution			x									
	Non-methane hydrocarbons			x									
	Particulate matter (ppm)			x									
	Noise	Noise levels along the section		x									
	Climate change resilience	number of flooding incidents		x									
		number of closures due to adverse weather conditions		x									
		number of embankment failures		x									
		number of winter maintenance days		x									
	Data valid for	year											
Geospatial data	Location of Road	Line geometry					x						
	Location of tunnels	Line geometry or Point geometry or x,y coordinates					x						
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates					x						
	Location of parking areas	Line geometry or Point geometry or x,y coordinates		x									
	Location of fuel stations	Point geometry or x,y coordinates		x									
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates		x									
	Data valid for	year											

Kosovo - Data availablity and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Infrastructure and Transportation										On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	TEN-T Category	Core/ Comprehensive					x						
	Corridor/ Route	Before project implementation					x						
		After project implementation					x						
	International Route ID	Before project implementation					x						
		After project implementation					x						
	National Route ID	Before project implementation					x						
		After project implementation					x						
	Start Node Name	Before project implementation					x						
		After project implementation					x						
	End Node Name	Before project implementation					x						
		After project implementation					x						
	Start km	Direction A - Before project implementation					x						
		Direction A - After project implementation					x						
		Direction B - Before project implementation					x						
		Direction B - After project implementation					x						
	End km	Direction A - Before project implementation					x						
		Direction A - After project implementation					x						
		Direction B - Before project implementation					x						
		Direction B - After project implementation					x						
Description of the Project	Project name	Text				x							
	Type of foreseen intervention	New infrastructure Reconstruction/rehabilitation Maintenance Horizontal/policy measure				x							
	Length (if linear)	Km/NA				x							
	Lanes	Direction A				x							
		Direction B				x							
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory				x							
Eligibility for TEN-T Project	Motorway/expressway	yes/no (new construction)				x							
	Other high-quality roads	yes/no (new construction)				x							
	Road rehabilitation/reconstruction	yes/ no (targeting capacity increase or road surface quality upgrade from very poor/poor/medium condition (IRI>2,84 to good/very good				x							
	Alternative fuels	yes/no				x							
	ITS compliance	yes/no				x							
	Tolling interoperability	yes/no				x							
	Safety compliance	yes/no				x							
	Road tunnels compliance	yes/no				x							
TEN-T Compliance	TEN-T Requirements Compliant	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	Alternative Fuels Availability	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	ITS Compliance	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	Tolling Interoperability	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	Safety Compliance	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							
	Road Tunnels Compliance (length >500m)	Before project implementation (yes/no)				x							
		After project implementation (yes/no)				x							

Kosovo - Data availablity and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile data	Other	Data Collection Frequency - RP
Project Status	Implemented	Project completed and put in operation			x								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going Financing source identified (principle agreement reached), procedures not-			x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			x								
IMPLEMENTED PROJECTS													
Project Timeline	Initial Project Completion Date	On tender issue			x								
	Actual Project Completion Date				x								
Project Funding Sources	National Budget	Euros			x								
	WB	Euros			x								
	EBRD	Euros			x								
	EIB	Euros			x								
	Other IFI	Specify			x								
		Euros			x								
	Concessions	Specify			x								
		Euros			x								
	EU Fund	Specify			x								
		Euros			x								
	Other funding source	Specify			x								
		Euros			x								
Project Documentation	Project Folder Title	(As built documentation or if not available then final design			x								
	Prepared by				x								
	Supervised by				x								
Performance Indicators	Construction period	Forecasted (months)			x								
		Actual (months)			x								
	CAPEX	Forecasted (Euros)			x								
		Actual (Euros)			x								
	OPEX	Forecasted (Euros per year)			x								
		Actual (Euros per year)			x								
	Maintenance cost	Forecasted (Euros per year)			x								
		Actual (Euros per year)			x								
	Interest During Construction	%		x									
	EBITDA (last year)	Euros		x									
	Revenue (if fare/toll collected)	Forecasted (Euros per year)		x									
		Actual (Euros per year)		x									
	Traffic	Passenger cars - forecasted			x								
		Passenger cars - actual			x								
		Busses - forecasted			x								
		Busses - actual			x								
		Trucks - forecasted			x								
		Trucks - actual			x								

Kosovo - Data availablity and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Vendor	MIS	API	Mobile App	Other	Data Collection Frequency - RP
LIVE PROJECTS					x								
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			x								
		Current Estimation. Please refer to realistic targets rather than contractual			x								
		Actual			x								
	Design Completion Date (month/ year)	Forecasted (on tender issue)			x								
		Current Estimation. Please refer to realistic targets rather than contractual			x								
		Actual			x								
	Project Completion Date (month/ year)	Forecasted (on tender issue)			x								
		Current Estimation. Please refer to realistic targets rather than contractual			x								
Project Funding Sources	National Budget	Euros			x								
		allocated/ agreement signed (yes/no)			x								
	WB	Euros			x								
		allocated/ agreement signed (yes/no)			x								
	EBRD	Euros			x								
		allocated/ agreement signed (yes/no)			x								
	EIB	Euros			x								
		allocated/ agreement signed (yes/no)			x								
	Other IFI	Specify			x								
		Euros			x								
		allocated/ agreement signed (yes/no)			x								
	Concessions	Specify			x								
		Euros			x								
		allocated/ agreement signed (yes/no)			x								
	EU Fund	Specify			x								
		Euros			x								
		allocated/ agreement signed (yes/no)			x								
	Other funding source	Specify			x								
		Euros			x								
		allocated/ agreement signed (yes/no)			x								
Technical Project Status	Pre-Feasibility Study	yes/no			x								
	Feasibility Study	yes/no			x								
	Concept Design	yes/no			x								
	Preliminary Design	yes/no			x								
	Detail Design	yes/no			x								
	Environmental Impact Assessment	yes/no			x								
Project Documentation	Feasibility Study	Title			x								
		Prepared by			x								
		Supervised by			x								
	Concept Design	Title			x								
		Prepared by			x								
		Supervised by			x								
	Preliminary Design	Title			x								
		Prepared by			x								
		Supervised by			x								
	Detail Design	Title			x								
		Prepared by			x								
		Supervised by			x								
	Environmental Impact Assessment	Title			x								
		Prepared by			x								
		Supervised by			x								
Social Indicators	Annual Traffic Demand Growth	%			x								
	Modal transfer	% (if applicable)			x								
	Annual Accident Rate Reduction	% (if applicable)			x								
Economic Indicators	EIRR (Economic Internal Rate of Return)	%			x								
	NPV (Net Present Value)	Euros			x								
	SDR (Social Discount Rate)	%			x								
	Project Planning & Design Cost	Euros			x								
	Project Construction Cost	Euros			x								
	Total Project Cost	Euros			x								

Kosovo - Data availablity and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Vendor	MIS	API	Mobile App	Other	Data Collection Frequency - RP
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			x								
	FNPV (Financial Net Present Value)	Euros			x								
	FDR (Financial Discount Rate)	%			x								
	WACC (Weighted Average Cost of Capital)	%			x								
	First year of profit	year			x								
	DSCR (Debt Service Coverage Ratio)	%			x								
Environmental Indicators	CO2 emissions	+/- %			x								
	NOx emissions	+/- %			x								
	SO2 emission evolution	+/- %			x								
	Non-methane hydrocarbons	+/- %			x								
	Particulate matter (ppm)	+/- %			x								
	Noise levels along the section	+/- %			x								
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience			x								
	Protected Natural Areas Affected	km2			x								
Geospatial data	Location of Road	Line geometry		x									
	Location of tunnels	Line geometry or Point geometry or x,y coordinates		x									
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates		x									
	Location of parking areas	Line geometry or Point geometry or x,y coordinates		x									
	Location of fuel stations	Point geometry or x,y coordinates		x									

Kosovo - Data availablity and formats

Road Safety

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Metadata	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Infrastructure and Transportation										Annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code				x								
	Population	number of inhabitants	monthly		x								
	Fleet size	number of registered vehicles			x								
Road Safety Data	Total number of road traffic crashes	number			x								
	Total number of road traffic crashes - Motorway (tolled)	number			x								
	Total number of road traffic crashes - Motorway (toll-free)	number			x								
	Total number of road traffic crashes - Primary Roads (dual carriageway)	number			x								
	Total number of road traffic crashes - Primary Roads (single carriageway)	number			x								
	Total number of road traffic crashes - Secondary Roads	number			x								
	Total number of road traffic crashes - Rural Roads	number			x								
	Total number of road traffic crashes - Urban Roads	number			x								
	Road traffic crashes with serious injuries only	number			x								
	Fatal road traffic crashes	number			x								
	Seriously Injured	number of persons			x								
	Fatalities	number of persons			x								
	Cause of accident (%)	alcohol											
		speed											
		infrastructure			x								
		use of electronic devices (mobile phone, GPS, etc)											
		vehicle not corresponding to standard											
	Data valid for	year											

North Macedonia - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Metadata	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority												Semi-annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code		TAV Airports		x								
	TEN-T Category	Core/ Comprehensive	TAV Airports		x								
	Node Name		TAV Airports		x								
	Ownership Type	Government/ Private/ Mixed	TAV Airports		x								
	Owner #1	Name	TAV Airports		x								
	Ownership Percentage	%	TAV Airports		x								
	Owner #x	Name	TAV Airports		x								
	Ownership Percentage	%	TAV Airports		x								
	Data valid from	year											
	Data valid to	year											
Infrastructure Data	Type	International/ Domestic	TAV Airports		x								
	Activity	Freight/ Passenger/ Passenger and freight	TAV Airports		x								
	Condition	Very Good Good Medium Poor Very Poor	TAV Airports		x								
	Number of runaways	number	TAV Airports		x								
	Number of passenger terminals	number	TAV Airports		x								
	IATA Landing Slot Classification	Level 1 (Non-Coordinated Airport) Level 2 (Schedules Facilitated Airport) Level 3 (Coordinated Airport)	TAV Airports		x								
	ICAO Airport Classification	Code A (Airplane Wingspan less than 15m; Outer Main Gear Wheel Span less than 4.5m) Code B (Airplane Wingspan from 15m up to less than 24m; Outer Main Gear Wheel Span from 4.5m up to less than 6m) Code C (Airplane Wingspan from 24m up to less than 36m; Outer Main Gear Wheel Span from 6m up to less than 9m)	TAV Airports		x								
	ILS Category	I II III A III B III C	TAV Airports		x								
	Length of longest runway	meters	TAV Airports		x								
	Passenger terminals area	m2	TAV Airports		x								
	Apron area	m2	TAV Airports		x								
	Declared Capacity	Declared number of aircraft movements that can be scheduled per hour at	TAV Airports		x								
	Apron Capacity	Number of airplanes on the apron at the same time	TAV Airports		x								
	Runway Capacity	Flights per hour	TAV Airports		x								
	Passenger Capacity	Passengers per year	TAV Airports		x								
	Freight Capacity	tons per year	TAV Airports		x								
	Rail Connection	yes - integrated to long distance rail network yes - rail shuttle no - other public shuttle no - no public shuttle connection	TAV Airports		x								
	Intelligent Transport Systems (ITS)	European air traffic management network (EATMN)	TAV Airports		x								
		1. Systems and procedures for airspace management.	TAV Airports		x								
		2. Systems and procedures for air traffic flow management.	TAV Airports		x								
		3. Systems and procedures for air traffic services, in particular flight data processing systems, surveillance data processing systems and human-	TAV Airports		x								
		4. Communications systems and procedures for ground-to-ground, air-to-	TAV Airports		x								
		5. Navigation systems and procedures.	TAV Airports		x								
		6. Surveillance systems and procedures.	TAV Airports		x								
		7. Systems and procedures for aeronautical information services.	TAV Airports		x								
		8. Systems and procedures for the use of meteorological information.	TAV Airports		x								
		9. Others	TAV Airports		x								
	Data valid from	year											
	Data valid to	year											
TEN-T Compliance	Rail Connection	yes/no	TAV Airports		X								
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)	TAV Airports		X								
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-	TAV Airports		X								
	Data valid from	year											
	Data valid to	year											

North Macedonia - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Road	Wood	GIS	VMS	WFS	API	Meta data	Other	Data Collection Frequency – RP
Operations Data	Throughput	number of commercial aircraft movements per year	TAV Airports		X								
	Passenger traffic	passengers per year	TAV Airports		X								
	Freight traffic	tons of cargo per year	TAV Airports		X								
	Type of aircraft movements by type of operation	network carrier	TAV Airports		X								
		low cost carrier											
		charter											
		cargo											
	Passenger transit	%	TAV Airports		X								
	Arrivals	%	TAV Airports		X								
	Data valid for	year											
Regular Maintenance	Maintenance cost - Total	Euros per year	Ministry of Transport										
	Maintenance cost - Passenger terminals	Euros per year	Ministry of Transport										
	Maintenance cost - Freight terminals	Euros per year	Ministry of Transport										
	Maintenance cost - Runways	Euros per year	Ministry of Transport										
	Source of finance		Ministry of Transport										
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	Terminal Building											
	Requiring upgrade to increase runway length	Runway Length											
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)	TAV Airports		X								
	CO2 emissions		TAV Airports		X								
	NOx emissions			X									
	SO2 emission evolution			X									
	Non-methane hydrocarbons			X									
	Particulate matter (ppm)			X									
	Climate change resilience	number of flooding incidents	TAV Airports		X								
		number of closures due to adverse weather conditions	TAV Airports										
	Data valid for	year											
Geospatial data	Location of the Airport	Point geometry or x,y coordinates											
	Data valid for	year											

North Macedonia - data availability and formats

Airports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Road	Wood	GIS	VMS	WFS	API	Meta data	Other	Data Collection Frequency – RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Transport										Semi-Annually	Information provided by TAV airports. Please refer to notes for more details
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	TEN-T Category	Core/ Comprehensive												
	Node Name													
Description of the Project	Project name	Text												
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance,												
	Length (if linear)	Km/NA												
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory												
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual												
Eligibility for TEN-T Project	Rail Connection	yes/no												
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)												
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-												
TEN-T Compliance	Rail connection	Before project implementation (yes/no)												
		After project implementation (yes/no)												
	Clean fuels availability	Before project implementation (yes/no)												
		After project implementation (yes/no)												
	Terminal Availability	Before project implementation (yes/no)												
		After project implementation (yes/no)												
Project Status	Implemented	Project completed and put in operation												
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.												
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-												
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.												
IMPLEMENTED PROJECTS														
Project Timeline	Initial Project Completion Date	On tender Issue												
	Actual Project Completion Date													
Project Funding Sources	National Budget	Euros												
	WB	Euros												
	EBRD	Euros												
	EIB	Euros												
	Other IFI	Specify												
		Euros												
	Concessions	Specify												
		Euros												
	EU Fund	Specify												
		Euros												
	Other funding source	Specify												
		Euros												
Project Documentation	Project Folder Title	(As built documentation or if not available then final design												
	Prepared by													
	Supervised by													
Performance Indicators	Construction period	Forecasted (months)												
		Actual (months)												
	CAPEX	Forecasted (Euros)												
		Actual (Euros)												
	OPEX	Forecasted (Euros per year)												
		Actual (Euros per year)												
	Maintenance cost	Forecasted (Euros per year)												
		Actual (Euros per year)												
	Interest During Construction	%												
	EBITDA (last year)	Euros												
	Revenue (if fare/toll collected)	Forecasted (Euros per year)												
		Actual (Euros per year)												
	Traffic	Throughput - forecasted												
		Throughput - actual												
		Passenger traffic - forecasted												
		Passenger traffic - actual												
		Freight (tn) - forecasted												
		Freight (tn) - actual												

North Macedonia - data availability and formats

Airports - Project Monitoring

Category	Parameter	Details	Source	Info Sys	Excel	Word	GIS	WMS	WFS	API	Web/e data	Other	Data Collection Frequency - RP	Comments
LIVE PROJECTS														
Project Timeline	Tender Start Date (month/ year)	Initially forecasted												
		Current Estimation. Please refer to realistic targets rather than contractual												
		Actual												
	Design Completion Date (month/ year)	Forecasted (on tender issue)												
		Current Estimation. Please refer to realistic targets rather than contractual												
		Actual												
	Project Completion Date (month/ year)	Forecasted (on tender issue)												
		Current Estimation. Please refer to realistic targets rather than contractual												
Project Funding Sources	National Budget	Euros												
		allocated/ agreement signed (yes/no)												
	WB	Euros												
		allocated/ agreement signed (yes/no)												
	EBRD	Euros												
		allocated/ agreement signed (yes/no)												
	EIB	Euros												
		allocated/ agreement signed (yes/no)												
	Other IFI	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	Concessions	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	EU Fund	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
	Other funding source	Specify												
		Euros												
		allocated/ agreement signed (yes/no)												
Technical Project Status	Pre-Feasibility Study	yes/no												
	Feasibility Study	yes/no												
	Concept Design	yes/no												
	Preliminary Design	yes/no												
	Detail Design	yes/no												
	Environmental Impact Assessment	yes/no												
Project Documentation	Feasibility Study	Title												
		Prepared by												
		Supervised by												
	Concept Design	Title												
		Prepared by												
		Supervised by												
	Preliminary Design	Title												
		Prepared by												
		Supervised by												
	Detail Design	Title												
		Prepared by												
		Supervised by												
	Environmental Impact Assessment	Title												
		Prepared by												
		Supervised by												
Social Indicators	Annual Traffic Demand Growth	%												
	Modal transfer	% (if applicable)												
	Annual Accident Rate Reduction	% (if applicable)												
Economic Indicators	EIRR (Economic Internal Rate of Return)	%												
	NPV (Net Present Value)	Euros												
	SDR (Social Discount Rate)	%												
	Project Planning & Design Cost	Euros												
	Project Construction Cost	Euros												
	Total Project Cost	Euros												
Financial Indicators	FIRR (Financial Internal Rate of Return)	%												
	FNPV (Financial Net Present Value)	Euros												
	FDR (Financial Discount Rate)	%												
	WACC (Weighted Average Cost of Capital)	%												
	First year of profit	year												
	DSCR (Debt Service Coverage Ratio)	%												
Environmental Indicators	CO2 emissions	+/- %												
	NOx emissions	+/- %												
	O2 emission evolution	+/- %												
	Non-methane hydrocarbons	+/- %												
	Particulate matter (ppm)	+/- %												
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience												
	Protected Natural Areas Affected	km2												
Geospatial data	Location of the Airport	Point geometry or x,y coordinates												

North Macedonia - data availability and formats

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info Sys	Excel	Word	GIS	WMS	WFS	API	Web/e data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		CUSTOMS ADMINISTRATION										
	Correspondence Address		CUSTOMS ADMINISTRATION										
	Contact Person		CUSTOMS ADMINISTRATION										
	Position		CUSTOMS ADMINISTRATION										
	Phone number		CUSTOMS ADMINISTRATION										
	Email		CUSTOMS ADMINISTRATION										
Localisation	Country Code		CUSTOMS ADMINISTRATION										
	Border with	country code	CUSTOMS ADMINISTRATION										
	Corridor/ Route		CUSTOMS ADMINISTRATION										
	Border Crossing Name		CUSTOMS ADMINISTRATION										
	TEN-T Category	Core/ Comprehensive/ Not in TEN-T	CUSTOMS ADMINISTRATION										
	Green Lanes	yes/no/planned	CUSTOMS ADMINISTRATION										
	One-stop procedure (Joint Border)	yes/no/planned	CUSTOMS ADMINISTRATION										
		indicate type of joint BCP (for passengers/for goods/ collocated on the territory of one party/entry-entry joint controls, etc)	CUSTOMS ADMINISTRATION										
Operations	Type of Controls/ Inspections Performed	phytosanitary	CUSTOMS ADMINISTRATION										
		veterinary	CUSTOMS ADMINISTRATION										
		radiological	CUSTOMS ADMINISTRATION										
		other non-trade related controls (road charges collection, vehicles technical compliance, any other)	CUSTOMS ADMINISTRATION										
	Data valid for	year	CUSTOMS ADMINISTRATION										
Infrastructure	Number of lanes for trucks	entering	CUSTOMS ADMINISTRATION										
		exiting	CUSTOMS ADMINISTRATION										
	Number of lanes for buses	entering	CUSTOMS ADMINISTRATION										
		exiting	CUSTOMS ADMINISTRATION										
	Number of lanes for passenger cars	entering	CUSTOMS ADMINISTRATION										
		exiting	CUSTOMS ADMINISTRATION										
	Separate parking zones for trucks	yes/no	CUSTOMS ADMINISTRATION										
	If yes, then truck parking capacity	vehicles	CUSTOMS ADMINISTRATION										
	Truck queuing capacity	vehicles	CUSTOMS ADMINISTRATION										
	State of play (customs/border police/other border agencies)	Booths (separate/ joint)	CUSTOMS ADMINISTRATION										
		Data Systems (separate/ joint)	CUSTOMS ADMINISTRATION										
		Physical inspection facilities (yes/ no)	CUSTOMS ADMINISTRATION										
	Systematic Electronic Exchange of Data (SEED)	yes/no/planned	CUSTOMS ADMINISTRATION										
	New Computerized Transport System (NCTS)	yes/no/planned	CUSTOMS ADMINISTRATION										
	eQMS (Queue Management System)	yes/no/planned	CUSTOMS ADMINISTRATION										
	Other Electronic Information System	yes/no/planned	CUSTOMS ADMINISTRATION										
	Type of ITS	list all ITS installed	CUSTOMS ADMINISTRATION										
	Data valid for	year	CUSTOMS ADMINISTRATION										
Operations - Rail	Passenger Trains entering	number per 24 hours	BORDER POLICE										
	Freight Trains entering	number per 24 hours	BORDER POLICE										
	Dangerous Goods Trains/ Wagons entering	number per 24 hours	CUSTOMS ADMINISTRATION										
	Average entry time passenger trains	minutes	CUSTOMS ADMINISTRATION										
	Average entry time freight trains	minutes	CUSTOMS ADMINISTRATION										
	Passenger Trains exiting	number per 24 hours	BORDER POLICE										
	Freight Trains exiting	number per 24 hours	BORDER POLICE										
	Dangerous Goods Trains/ Wagons exiting	number per 24 hours	CUSTOMS ADMINISTRATION										
	Average exit time passenger trains	minutes	CUSTOMS ADMINISTRATION										
	Average exit time freight trains	minutes	CUSTOMS ADMINISTRATION										
	Data valid for	year											

North Macedonia - data availability and formats

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info. Sys.	Excel	Word	GIS	WMS	WFS	API	Metadata	Other	Data Collection Frequency - RP
Operations - Road	Passenger Cars entering	number per 24 hours (or week/ month/ year)	BORDER POLICE										
	Buses entering	number per 24 hours (or week/ month/ year)	BORDER POLICE										
	Freight Vehicles entering	number per 24 hours (or week/ month/ year)	BORDER POLICE										
	Dangerous Goods Vehicles entering	number per 24 hours (or week/ month/ year)	CUSTOMS ADMINISTRATION										
	Passenger Cars entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)	CUSTOMS ADMINISTRATION										
	Freight Vehicles entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)	CUSTOMS ADMINISTRATION										
	Buses entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)	CUSTOMS ADMINISTRATION										
	Passenger Cars entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)	CUSTOMS ADMINISTRATION										
	Freight Vehicles entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)	CUSTOMS ADMINISTRATION										
	Buses entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)	CUSTOMS ADMINISTRATION										
	Freight vehicles cleared by customs at the BCP	% of total freight vehicle volume	CUSTOMS ADMINISTRATION										
	Freight vehicles entering for Import	% of total freight vehicle volume	CUSTOMS ADMINISTRATION										
	Freight vehicles entering Transit	% of total freight vehicle volume	CUSTOMS ADMINISTRATION										
	Freight vehicles entering Empty	% of total freight vehicle volume	BORDER POLICE										
	Passenger Cars exiting	number per 24 hours (or week/ month/ year)	BORDER POLICE										
	Buses exiting	number per 24 hours (or week/ month/ year)	BORDER POLICE										
	Freight Vehicles exiting	number per 24 hours (or week/ month/ year)	BORDER POLICE										
	Dangerous Goods Vehicles Exiting	number per 24 hours (or week/ month/ year)	CUSTOMS ADMINISTRATION										
	Passenger Cars exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)	CUSTOMS ADMINISTRATION										
	Freight Vehicles exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)	CUSTOMS ADMINISTRATION										
	Buses exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)	CUSTOMS ADMINISTRATION										
	Passenger Cars exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)	CUSTOMS ADMINISTRATION										
	Freight Vehicles exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)	CUSTOMS ADMINISTRATION										
	Buses exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)	CUSTOMS ADMINISTRATION										
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	Terminal Building	CUSTOMS ADMINISTRATION										
	Requiring upgrade to IT Systems/ ITS	Adoption of New Computerized Transport System (NCTS)	CUSTOMS ADMINISTRATION										
	Data valid for	year											
Geospatial data	Location of the border crossings	Point geometry or x,y coordinates											
	Data valid for	year											

North Macedonia - data availability and formats

EU Acquis

Category	Parameter	Input	Source	Info. Sys.	Excel	Word	Other
Reporting Organisation Data	Name of responsible Company/Authority		Secretariat for European Affairs				
	Correspondence Address						
	Contact Person						
	Position						
	Phone number						
	Email						
EU Acquis Harmonisation	Is the status of EU Acquis harmonisation per individual EU legislation available? (yes/no)	Yes					DB
	If yes, then please provide the format this information is available in	Database					
National Legislation	Is the list of National Legislation affected by the EU Acquis harmonisation available?	Yes					DB
	If yes, then please provide the format this information is available in	Database					
Reporting	Please provide a list of the Reports you are already producing for EU Acquis.(Report title/Recipient)	Statement of Compliance					
		Table of Concordance					
Methodology	Please provide a short description of the methodology you follow for the monitoring of the harmonisation process.	Please refert to the notes for further details					

North Macedonia - data availability and formats

Geospatial Data

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Agency for Real Estate Cadastre										2017 (refer to notes)
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
NUTS Level 0	Geometry	Line or polygon geometry of the country boundary										SHAPE FILES	
	NUTS0 code												
	NUTS0 name												
NUTS Level 1	Geometry	Line or polygon geometry of NUTS level 1										SHAPE FILES	
	NUTS1 code												
	NUTS1 name												
NUTS Level 2	Geometry	Line or polygon geometry of NUTS level 2										SHAPE FILES	
	NUTS2 code												
	NUTS2 name												
NUTS Level 3	Geometry	Line or polygon geometry of NUTS level 3											
	NUTS3 code												
	NUTS3 name												
Settlements	Geometry	point geometry of settlements										SHAPE FILES	
	Settlement code												
	Settlement type												
	Settlement name												
Roads (National and Strategic Road Network)	Location of Road	Line geometry										X	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates										X	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates										X	
	Location of parkings	Line geometry or Point geometry or x,y coordinates		X									
	Location of fuel stations	Point geometry or x,y coordinates		X									
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates		X									
Rail	Location of Railway Line	Line geometry										X	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates										X	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates										X	
	Location of Stations	Line geometry or Point geometry or x,y coordinates										X	
	Location of level crossings	Point geometry or x,y coordinates		X									
	Location of serious accidents	Point geometry or x,y coordinates		X									
Inland Waterways	Location of the IWW	Line geometry		N/A									
	Location of the IWW port	Point geometry or x,y coordinates		N/A									
	Single locks	Point geometry or x,y coordinates		N/A									
	Double locks	Point geometry or x,y coordinates		N/A									
	Ports, transhipment or storage facilities	Point geometry or x,y coordinates		N/A									
Seaports	Location of the Seaport	Point geometry or x,y coordinates		N/A									
Airports	Location of the Airport	Point geometry or x,y coordinates										POLYGONS	LINES FOR RUNAWAYS
Border Crossings	Location of the border crossings	Point geometry or x,y coordinates										POLYGONS	LINES FOR RUNAWAYS
Freight Terminal	Location of the Freight Terminals	Point geometry or x,y coordinates		X									

North Macedonia - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Web data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority												2007/ On demand (refer to notes)
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	TEN-T Category	Core/ Comprehensive	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Corridor/ Route		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	International Route ID		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	National Route ID		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Start Node Name		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	End Node Name		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Start km	Direction A	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
		Direction B	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	End km	Direction A	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
		Direction B	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Status	Planned/ Existing/ Upgrade	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Data valid from	year											
	Data valid to	year											
Infrastructure Data	Capacity	trains/ day	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Track gauge	750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1602 / 1668	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Load gauge	A GAUGE: Total height 3.83 m above t - he rail and 1.28 m on either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle B+ GAUGE: Total height is 4.18 m above the rail and 1.36 m on either side of the track axle C GAUGE: Total height 4.65 m above the rail and 1.45 m on either side of the track axle	Macedonian Railways - Infrastructure Manager			x	x					RIMS	
	Condition of track (Operational/ Design Speed)	Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Number of tracks	Total (most relevant figures, e.g. if a single track railway of 10km has 2km stretch of two tracks, the relevant total is one track)	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Traction	Diesel	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
		Electrified	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Rail voltage	25 000 Volts, 50Hz 15 000 Volts, 16 2/3 Hz 3 000 Volts, DC 1 500 Volts, DC 750 Volts DC 660 Volts DC 630 Volts DC	Macedonian Railways - Infrastructure Manager			x	x					RIMS	
	Length - Total (km)		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Length - Open Track (km)		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Length - Tunnels (km)		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Length - Bridges over 12m length (km)		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Tunnels	number	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Level-Crossings	number	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Max Design Speed	km per hour	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Max Operating Speed	km per hour	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Max Longitudinal Gradient (m per km)	Direction A	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
		Direction B	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Min radius	meters	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Maximum train length	meters	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Max Axle load	kN	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Signalling Standard		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Traffic Management		Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	ERTMS in operation	yes/no	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	ERTMS level	1 - is designed as an add-on to or overlays a conventional line already equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard unit using GSM-R. 3 - still in its conceptual phase, allows for the introduction of a "moving block" technology.	Macedonian Railways - Infrastructure Manager		x	x						RIMS	

North Macedonia - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Web data	Other	Data Collection Frequency - RP
	Control & Command System	Specify which system is used to ensure safety and to command and control movements of trains authorised to travel on the network	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Data valid from	year											
	Data valid to	year											

North Macedonia - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Web App	Other	Data Collection Frequency - RP
TEN-T Compliance	Electrification	yes/no (Not applicable for isolated networks. Applies to line trucks and sidings, to the extent necessary for electric train operation)	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Railway Tunnels Compliance	yes/no as per Directive 2014/1303/EC as amended by 2016/912/EC and 2019/776/EC	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Freight Line Speed	yes/no (At least 100km (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Freight Line Axle Load	yes/no (At least 22.5t (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Freight Line Train Length	yes/no (At least 750m (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Track Gauge 1435mm	yes/no (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network the track gauge of which is different and detached from the TEN-T network)	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	ERTMS Deployment	yes/no (European Train Control System (ETCS) - Not applicable for isolated networks)	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
		yes/no (Global System for Mobile communications for Railways (GSM-R) - Not applicable for isolated networks)	Macedonian Railways - Infrastructure Manager		x	x						RIMS	
	Data valid from	year											
	Data valid to	year											
Operations Data	Passenger Trains	number per 24 hours	Macedonian Railways Transport JSC Skopje		x	x							
	Freight Trains	number per 24 hours	Macedonian Railways Transport JSC Skopje		x	x							
	Dangerous Goods Freight Trains	number per 24 hours	Macedonian Railways Transport JSC Skopje		x	x							
	Capacity used	% of capacity	Macedonian Railways Transport JSC Skopje		x	x							
	Passenger traffic	number per year	Macedonian Railways Transport JSC Skopje		x	x							
		passenger km per year	Macedonian Railways Transport JSC Skopje		x	x							
	Freight traffic	tons per year	Macedonian Railways Transport JSC Skopje		x	x							
		tkm per year	Macedonian Railways Transport JSC Skopje		x	x							
	TEUs	TEU containers per year	Macedonian Railways Transport JSC Skopje		x	x							
	Unitised	% in standard loading units	Macedonian Railways Transport JSC Skopje		x	x							
	Non Unitised	% of bulk and general traffic	Macedonian Railways Transport JSC Skopje		x	x							
	National traffic	% of total traffic	Macedonian Railways Transport JSC Skopje		x	x							
	Average travel time passenger (incl. stops)	long distance trains only	Macedonian Railways Transport JSC Skopje		x	x							
	Average travel time freight (incl. stops)	long distance trains only	Macedonian Railways Transport JSC Skopje		x	x							
	Data valid for	year											
Safety	Number of Incidents	absolute number (as per Directive 2016/798/EU - Railway Safety)	Macedonian Railways - Infrastructure Manager		x	x							
	Number of Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)	Macedonian Railways - Infrastructure Manager		x	x							
	Number of Significant Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety and ERA CSI Implementation Guidance)	Macedonian Railways - Infrastructure Manager		x	x							
	Number of Serious Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)	Macedonian Railways - Infrastructure Manager		x	x							
	Serious Accidents - Number of Serious Injuries	absolute number	Macedonian Railways - Infrastructure Manager		x	x							
	Serious Accidents - Number of Fatalities	absolute number	Macedonian Railways - Infrastructure Manager		x	x							
	Serious Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)	Macedonian Railways - Infrastructure Manager		x	x							
	Serious Accidents - Amount of Material Damage	EUR per year	Macedonian Railways - Infrastructure Manager		x	x							
	Serious Accidents - Disruption of traffic	hours per year	Macedonian Railways - Infrastructure Manager		x	x							
	Serious Accidents - Indirect damages related to delays	EUR per year	Macedonian Railways - Infrastructure Manager		x	x							
	Significant Accidents - Number of Significant Injuries	absolute number	Macedonian Railways - Infrastructure Manager		x	x							
	Significant Accidents - Number of Fatalities	absolute number	Macedonian Railways - Infrastructure Manager		x	x							
	Significant Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)	Macedonian Railways - Infrastructure Manager		x	x							
	Significant Accidents - Amount of Material Damage	EUR per year	Macedonian Railways - Infrastructure Manager		x	x							
	Significant Accidents - Disruption of traffic	hours per year	Macedonian Railways - Infrastructure Manager		x	x							
	Significant Accidents - Indirect damages related to delays	EUR per year	Macedonian Railways - Infrastructure Manager		x	x							
	Data valid for	year											
Regular Maintenance	Maintenance cost - Total	Euros per year per km	Macedonian Railways - Infrastructure Manager		x	x							
	Maintenance cost - Total	Euros	Macedonian Railways - Infrastructure Manager		x	x							
	Maintenance cost - Infrastructure	Euros per year (rail track, switches and crossings, tunnels, bridges, level crossings, etc.)	Macedonian Railways - Infrastructure Manager		x	x							
	Maintenance cost - Signalling and telecom system	Euros per year (Maintenance of rail station signalling, automatic block system, automatic and mechanical level crossings, maintenance of railway telecommunication cable, self supporting telecommunications cable, optical cable, VHF/UHF devices, etc.)	Macedonian Railways - Infrastructure Manager		x	x							
	Maintenance cost - Electrification system	Euros per year (Maintenance of catenaries, electric railway substations, overhead lines, etc.)	Macedonian Railways - Infrastructure Manager		x	x							
	Source of finance		Macedonian Railways - Infrastructure Manager		x	x							
	Data valid for	year											
Heavy Maintenance	Requiring heavy maintenance	length of section (km)	Macedonian Railways - Infrastructure Manager		x	x							
	Requiring rehabilitation	length of section (km)	Macedonian Railways - Infrastructure Manager		x	x							
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	length of section (km)	Macedonian Railways - Infrastructure Manager		x	x							
	Requiring upgrade (additional track/ new line)	length of section (km)	Macedonian Railways - Infrastructure Manager		x	x							
	Data valid for	year											

North Macedonia - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Web App	Other	Data Collection Frequency - RP
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x									
	CO2 emissions			x									
	NOx emissions			x									
	SO2 emission evolution			x									
	Non-methane hydrocarbons			x									
	Particulate matter (ppm)			x									
	Noise	Noise levels along the section		x									
	Climate change resilience	number of flooding incidents	Macedonian Railways - Infrastructure Manager		x	x							
		number of closures due to adverse weather conditions	Macedonian Railways - Infrastructure Manager		x	x							
		number of embankment failures	Macedonian Railways - Infrastructure Manager		x	x							
	Data valid for	year											
Geospatial data	Location of Railway Line	Line geometry	Macedonian Railways - Infrastructure Manager									RIMS	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates	Macedonian Railways - Infrastructure Manager									RIMS	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates	Macedonian Railways - Infrastructure Manager									RIMS	
	Location of Stations	Line geometry or Point geometry or x,y coordinates	Macedonian Railways - Infrastructure Manager									RIMS	
	Location of level crossings	Point geometry or x,y coordinates	Macedonian Railways - Infrastructure Manager									RIMS	
	Location of serious accidents	Point geometry or x,y coordinates		x									
	Data valid for	year											

North Macedonia - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Google	Web	JPG	Adobe Acrobat	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Macedonian Railways - Infrastructure Manager										On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code				x	x							
	TEN-T Category	Core/ Comprehensive			x	x							
	Corridor/ Route	Before project implementation			x	x							
		After project implementation			x	x							
	International Route ID	Before project implementation			x	x							
		After project implementation			x	x							
	National Route ID	Before project implementation			x	x							
		After project implementation			x	x							
	Start Node Name	Before project implementation			x	x							
		After project implementation			x	x							
	End Node Name	Before project implementation			x	x							
		After project implementation			x	x							
	Start km	Direction A - Before project implementation			x	x							
		Direction A - After project implementation			x	x							
		Direction B - Before project implementation			x	x							
		Direction B - After project implementation			x	x							
	End km	Direction A - Before project implementation			x	x							
		Direction A - After project implementation			x	x							
		Direction B - Before project implementation			x	x							
		Direction B - After project implementation			x	x							
Description of the Project	Project name	Text			x	x							
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			x	x							
	Length (if linear)	Km/NA			x	x							
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			x	x							
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x							
Eligibility for TEN-T Project	Electrification	yes/no			x	x							
	Line speed 100 km/h (freight)	yes/no			x	x							
	Axle load 22,5 t	yes/no			x	x							
	Track gauge	yes/no			x	x							
	Train length 740 m	yes/no			x	x							
	ERTMS Deployment (ETCS)	yes/no			x	x							
	ERTMS Deployment (GSM-R)	yes/no			x	x							
TEN-T Compliance	Electrification	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	Line speed 100 km/h (freight)	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	Axle load 22,5 t	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	Track gauge	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	Train length 740 m	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	ERTMS Deployment (ETCS)	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	ERTMS Deployment (GSM-R)	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							

North Macedonia - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	MMIS	WMS	API	Web data	Other	Data Collection Frequency - RP
Project Status	Implemented	Project completed and put in operation			x	x							
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			x	x							
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			x	x							
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			x	x							
IMPLEMENTED PROJECTS													
Project Timeline	Initial Project Completion Date	On tender issue			x	x							
	Actual Project Completion Date				x	x							
Project Funding Sources	National Budget	Euros			x	x							
	WB	Euros			x	x							
	EBRD	Euros			x	x							
	EIB	Euros			x	x							
	Other IFI	Specify			x	x							
		Euros			x	x							
	Concessions	Specify			x	x							
		Euros			x	x							
	EU Fund	Specify			x	x							
		Euros			x	x							
	Other funding source	Specify			x	x							
		Euros			x	x							
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			x	x							
	Prepared by				x	x							
	Supervised by				x	x							
Performance Indicators	Construction period	Forecasted (months)			x	x							
		Actual (months)			x	x							
	CAPEX	Forecasted (Euros)			x	x							
		Actual (Euros)			x	x							
	OPEX	Forecasted (Euros per year)			x	x							
		Actual (Euros per year)			x	x							
	Maintenance cost	Forecasted (Euros per year)			x	x							
		Actual (Euros per year)			x	x							
	Interest During Construction	%			x	x							
	EBITDA (last year)	Euros			x	x							
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			x	x							
		Actual (Euros per year)			x	x							
	Traffic	Train traffic - forecasted			x	x							
		Train traffic - actual			x	x							
		Passenger traffic - forecasted			x	x							
		Passenger traffic - actual			x	x							
		Freight (tn) - forecasted			x	x							
		Freight (tn) - actual			x	x							
LIVE PROJECTS													
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			x	x							
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x							
		Actual			x	x							
	Design Completion Date (month/ year)	Forecasted (on tender issue)			x	x							
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x							
		Actual			x	x							
	Project Completion Date (month/ year)	Forecasted (on tender issue)			x	x							
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x							

North Macedonia - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Web Page	Other	Data Collection Frequency - RP
Project Funding Sources	National Budget	Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	WB	Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	EBRD	Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	EIB	Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	Other IFI	Specify			x	x							
		Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	Concessions	Specify			x	x							
		Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	EU Fund	Specify			x	x							
		Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
	Other funding source	Specify			x	x							
		Euros			x	x							
		allocated/ agreement signed (yes/no)			x	x							
Technical Project Status	Pre-Feasibility Study	yes/no			x	x							
	Feasibility Study	yes/no			x	x							
	Concept Design	yes/no			x	x							
	Preliminary Design	yes/no			x	x							
	Detail Design	yes/no			x	x							
	Environmental Impact Assessment	yes/no			x	x							
Project Documentation	Feasibility Study	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
	Concept Design	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
	Preliminary Design	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
	Detail Design	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
	Environmental Impact Assessment	Title			x	x							
		Prepared by			x	x							
		Supervised by			x	x							
Social Indicators	Annual Traffic Demand Growth	%			x	x							
	Modal transfer	% (if applicable)			x	x							
	Annual Accident Rate Reduction	% (if applicable)			x	x							
Economic Indicators	EIRR (Economic Internal Rate of Return)	%			x	x							
	NPV (Net Present Value)	Euros			x	x							
	SDR (Social Discount Rate)	%			x	x							
	Project Planning & Design Cost	Euros			x	x							
	Project Construction Cost	Euros			x	x							
	Total Project Cost	Euros			x	x							
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			x	x							
	FNPV (Financial Net Present Value)	Euros			x	x							
	FDR (Financial Discount Rate)	%			x	x							
	WACC (Weighted Average Cost of Capital)	%			x	x							
	First year of profit	year			x	x							
	DSCR (Debt Service Coverage Ratio)	%			x	x							

North Macedonia - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Web Page	Other	Data Collection Frequency - RP
Environmental Indicators	CO2 emissions	+/- %		x									
	NOx emissions	+/- %		x									
	SO2 emission evolution	+/- %		x									
	Non-methane hydrocarbons	+/- %		x									
	Particulate matter (ppm)	+/- %		x									
	Noise levels along the section	+/- %		x									
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience of the network		x									
	Protected Natural Areas Affected	km2			x	x							
Geospatial data	Location of Railway Line	Line geometry										ACAD	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates										ACAD	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates										ACAD	
	Location of Stations	Line geometry or Point geometry or x,y coordinates										ACAD	
	Location of level crossings	Point geometry or x,y coordinates										ACAD	

North Macedonia - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Public Enterprise for State Roads										2019 (refer to notes)
	Correspondence Address												On demand
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	TEN-T Category	Core/ Comprehensive			x	x	x						
	Corridor/ Route				x	x	x						
	International Route ID				x	x							
	National Route ID				x	x	x						
	Start Node Name				x	x	x						
	End Node Name				x	x	x						
	Start km	Direction A			x	x	x						
		Direction B			x	x	x						
	End km	Direction A			x	x	x						
		Direction B			x	x	x						
	Status	Planned/ Existing/ Upgrade			x	x	x						
	Data valid from	year											
	Data valid to	year											
Infrastructure Data	Category	Motorways/ Dual Carriageways/ Single Carriageways			x	x	x						
	Pavement Condition	1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing Course (NWC) (IRI [2.84- 5.09]) 3b. Medium PRH, describes a road which needs Pavement Rehabilitation (PRH) (IRI [2.84 – 5.09]) 4. Poor, means that the road needs a new Overlay and Wearing Course (OWC) (IRI [5.09 – 8.94]) 5. Very Poor, describes a road which needs a Completely New Pavement (CNP) (IRI [8.94 -])			x	x	x						
	Lanes	Direction A			x	x							
		Direction B			x	x							
	Length - Total (km)	Direction A			x	x	x						
		Direction B			x	x	x						
	Length - Open Road (km)	Direction A			x	x	x						
		Direction B			x	x	x						
	Length - Tunnels (km)	Direction A			x	x							
		Direction B			x	x							
	Length - Bridges over 12m length (km)	Direction A			x	x							
		Direction B			x	x							
	Tunnels	Direction A (absolute number)			x	x							
		Direction B (absolute number)			x	x							
	Parking areas	Direction A (absolute number)			x	x							
		Direction B (absolute number)			x	x							
	Fuel Stations	Direction A (absolute number)			x	x							
		Direction B (absolute number)			x	x							
		Type of fuels (Diesel, Gas, CNG, LNG, Hydrogen, Charging Point)			x	x							
	Design Speed	km per hour			x	x							
	Speed limit	km per hour			x	x							
	Operating Speed	km per hour			x	x							
	Max Longitudinal Gradient (%)	Direction A											
		Direction B											
	Max Permitted Weight	per vehicle (tons)			x	x							
		axle load (kN)			x	x							
	Capacity	minimum lane capacity per hour (PCUs) for both directions			x	x							
	Tolled	yes/ no			x	x							
	Type of Tolls	per km/ per day			x	x							
	Charging Method	stations/ free flow/ vignette/ GNSS			x	x							
	Number of Toll Station Lanes	manned/ electronic											
	Intelligent Transport Systems (ITS)	yes/no			x								
	Type of ITS	list all ITS installed			x								
	Operation Supervised by Control Centre	yes/ no			x	x							
	Data valid from	year											
	Data valid to	year											
	TEN-T Requirements Compliant	yes/no as per art. 17.3 (a) and (b) of Regulation 1315/2013		x									
	Alternative Fuels Availability	yes/no as per Directive no. 2014/94/EU				x							
	ITS Compliance	yes/no as per Directive 2010/40/EU				x							

North Macedonia - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
TEN-T Compliance	Tolling Interoperability	yes/no as per Directive 2004/52/EC and Commission Decision no. 2009/750/EC				x							
	Safety Compliance	yes/no as per Directive 2008/96/EC				x							
	Road Tunnels Compliance (length >500m)	yes/no as per Directive 2004/54/EC				x							
	Data valid from	year											
	Data valid to	year											

North Macedonia - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info n/a	Excel	Word	GIS	WMS	WFS	API	Bulk data	Other	Data Collection Frequency - RP
Operations Data	Total traffic flow	AADT or vehicles per year			x	x							
	Passenger cars	AADT or vehicles per year			x	x							
	Busses	AADT or vehicles per year			x	x							
	Trucks	AADT or vehicles per year			x	x							
	International traffic	% of AADT or total traffic flow		x									
	Percentage of HGVs	% of AADT or total traffic flow			x	x							
	Freight traffic flow	tons per year		x									
		vehicles per year			x	x							
	Dangerous goods vehicles	Number per year or % of AADT or total traffic flow		x									
	Passengers	number		x									
	Average travel time (PCs)	in minutes		x									
	Average travel time (HVGs)	in minutes		x									
	Toll Rate Currency	Currency (e.g. Euro)			x	x							
	Toll Rate Passenger Cars	per km (e.g. Euro per km)			x	x							
		per day (e.g. Euro per day)			x	x							
	Toll Rate Heavy Good Vehicles	per km (e.g. Euro per km)			x	x							
		per day (e.g. Euro per day)			x	x							
	% toll evasion	% of vehicles			x	x							
	Data valid for	year											
Road Safety	Total number of road traffic crash	absolute number			x	x							
	Road traffic crash with serious injuries only	absolute number			x	x							
	Fatal road traffic crash	absolute number			x	x							
	Chainage (km position) of road traffic crashes with injury/ fatality			x									
	Total injured	number of persons			x	x							
	Seriously Injured	number of persons			x	x							
	Fatalities	number of persons			x	x							
	Road Safety Audit carried out at design stage	yes/ no			x	x							
	Section ranked as high/risk	yes/ no			x	x							
	Road Safety Inspections carried out	Total number			x	x							
		Corresponding dates			x	x							
	Data valid for	year											
Regular Maintenance	Maintenance cost - Total	Euros per km per year			x	x							
	Maintenance cost - Open Road	Euros per km per year		x									
	Maintenance cost - Tunnel	Euros per km per year		x									
	Maintenance cost - Bridges	Euros per km per year		x									
	Heavy/ Periodic Maintenance Cost	Euros per km per year (Activities on a section of road at regular and relatively long intervals, aims to preserve the structural integrity of the road (preventive resurfacing, overlay, and pavement reconstruction)			x	x							
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention, such as collapsed culverts or landslides that block a road)			x	x							
	Winter Maintenance Cost	Euros per km per year			x	x							
	Routine Maintenance Cost	Euros per km per year (The rest of maintenance cost for the said year)			x	x							
	Source of finance				x	x							
	Data valid for	year											
Heavy/ Periodic Maintenance Requirements	Requiring rehabilitation - Open Road	length of section (km)			x	x							
	Requiring rehabilitation - Tunnel	length of section (km)			x	x							
	Requiring rehabilitation - Bridges	length of section (km)			x	x							
	Requiring heavy/ periodic maintenance - Open Road	length of section (km)			x	x							
	Requiring heavy/ periodic maintenance - Tunnel	length of section (km)			x	x							
	Requiring heavy/ periodic maintenance - Bridges	length of section (km)			x	x							
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity - Open Road	length of section (km)			x	x							
	Requiring upgrade to increase capacity - Tunnel	length of section (km)			x	x							
	Requiring upgrade to increase capacity - Bridges	length of section (km)			x	x							
	Data valid for	year											

North Macedonia - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info n/a	Excel	Word	GIS	WMS	WFS	API	Bulk data	Other	Data Collection Frequency - RP
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x									
	CO2 emissions			x									
	NOx emissions			x									
	SO2 emission evolution			x									
	Non-methane hydrocarbons			x									
	Particulate matter (ppm)			x									
	Noise	Noise levels along the section		x									
	Climate change resilience	number of flooding incidents		x									
		number of closures due to adverse weather conditions		x									
		number of embankment failures		x									
		number of winter maintenance days		x									
	Data valid for	year											
Geospatial data	Location of Road	Line geometry					x						
	Location of tunnels	Line geometry or Point geometry or x,y coordinates					x						
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates					x						
	Location of parking areas	Line geometry or Point geometry or x,y coordinates					x						
	Location of fuel stations	Point geometry or x,y coordinates					x						
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates					x						
	Data valid for	year											

North Macedonia - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile data	Other	Data Collection Frequency - RP
Reporting Organization Data	Name of responsible Company/Authority		Public Enterprise for State Roads										On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code				x	x							
	TEN-T Category	Core/ Comprehensive			x	x							
	Corridor/ Route	Before project implementation			x	x							
		After project implementation			x	x							
	International Route ID	Before project implementation			x	x							
		After project implementation			x	x							
	National Route ID	Before project implementation			x	x							
		After project implementation			x	x							
	Start Node Name	Before project implementation			x	x							
		After project implementation			x	x							
	End Node Name	Before project implementation			x	x							
		After project implementation			x	x							
	Start km	Direction A - Before project implementation			x	x							
		Direction A - After project implementation			x	x							
		Direction B - Before project implementation			x	x							
		Direction B - After project implementation			x	x							
	End km	Direction A - Before project implementation			x	x							
		Direction A - After project implementation			x	x							
		Direction B - Before project implementation			x	x							
		Direction B - After project implementation			x	x							
Description of the Project	Project name	Text			x	x							
	Type of foreseen intervention	New infrastructure Reconstruction/rehabilitation Maintenance Horizontal/policy measure			x	x							
	Length (if linear)	Km/NA			x	x							
	Lanes	Direction A			x	x							
		Direction B			x	x							
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			x	x							
Eligibility for TEN-T Project	Motorway/expressway	yes/no (new construction)			x	x							
	Other high-quality roads	yes/no (new construction)			x	x							
	Road rehabilitation/reconstruction	yes/ no (targeting capacity increase or road surface quality upgrade from very poor/poor/medium condition (IRI>2,84 to good/very good conditions))			x	x							
	Alternative fuels	yes/no			x	x							
	ITS compliance	yes/no			x	x							
	Tolling interoperability	yes/no			x	x							
	Safety compliance	yes/no			x	x							
	Road tunnels compliance	yes/no			x	x							
TEN-T Compliance	TEN-T Requirements Compliant	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	Alternative Fuels Availability	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	ITS Compliance	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	Tolling Interoperability	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
	Safety Compliance	Before project implementation (yes/no)			x	x							
		After project implementation (yes/no)			x	x							
		Before project implementation (yes/no)			x	x							

North Macedonia - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Mobile data	Other	Data Collection Frequency - RP
	Road Tunnels Compliance (length >500m)	After project implementation (yes/no)			x	x							

North Macedonia - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Data N/A	Excel	Word	GIS	Online	Web	API	Mobile App	Other	Data Collection Frequency - EP
Project Status	Implemented	Project completed and put in operation			x	x							
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			x	x							
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			x	x							
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			x	x							
IMPLEMENTED PROJECTS													
Project Timeline	Initial Project Completion Date	On tender issue			x	x							
	Actual Project Completion Date				x	x							
Project Funding Sources	National Budget	Euros			x	x							
	WB	Euros			x	x							
	EBRD	Euros			x	x							
	EIB	Euros			x	x							
	Other IFI	Specify			x	x							
		Euros			x	x							
	Concessions	Specify			x	x							
		Euros			x	x							
	EU Fund	Specify			x	x							
		Euros			x	x							
	Other funding source	Specify			x	x							
		Euros			x	x							
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			x	x							
	Prepared by				x	x							
	Supervised by				x	x							
Performance Indicators	Construction period	Forecasted (months)			x	x							
		Actual (months)			x	x							
	CAPEX	Forecasted (Euros)			x	x							
		Actual (Euros)			x	x							
	OPEX	Forecasted (Euros per year)			x	x							
		Actual (Euros per year)			x	x							
	Maintenance cost	Forecasted (Euros per year)			x	x							
		Actual (Euros per year)			x	x							
	Interest During Construction	%			x	x							
	EBITDA (last year)	Euros			x	x							
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			x	x							
		Actual (Euros per year)			x	x							
	Traffic	Passenger cars - forecasted			x	x							
		Passenger cars - actual			x	x							
		Busses - forecasted			x	x							
		Busses - actual			x	x							
		Trucks - forecasted			x	x							
		Trucks - actual			x	x							

North Macedonia - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	Other	Data Collection Frequency - EP
LIVE PROJECTS										
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			x	x				
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x				
		Actual			x	x				
	Design Completion Date (month/ year)	Forecasted (on tender issue)			x	x				
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x				
		Actual			x	x				
	Project Completion Date (month/ year)	Forecasted (on tender issue)			x	x				
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x				
Project Funding Sources	National Budget	Euros			x	x				
		allocated/ agreement signed (yes/no)			x	x				
	WB	Euros			x	x				
		allocated/ agreement signed (yes/no)			x	x				
	EBRD	Euros			x	x				
		allocated/ agreement signed (yes/no)			x	x				
	EIB	Euros			x	x				
		allocated/ agreement signed (yes/no)			x	x				
	Other IFI	Specify			x	x				
		Euros			x	x				
		allocated/ agreement signed (yes/no)			x	x				
	Concessions	Specify			x	x				
		Euros			x	x				
		allocated/ agreement signed (yes/no)			x	x				
	EU Fund	Specify			x	x				
		Euros			x	x				
		allocated/ agreement signed (yes/no)			x	x				
	Other funding source	Specify			x	x				
		Euros			x	x				
		allocated/ agreement signed (yes/no)			x	x				
Technical Project Status	Pre-Feasibility Study	yes/no			x	x				
	Feasibility Study	yes/no			x	x				
	Concept Design	yes/no			x	x				
	Preliminary Design	yes/no			x	x				
	Detail Design	yes/no			x	x				
	Environmental Impact Assessment	yes/no			x	x				
Project Documentation	Feasibility Study	Title			x	x				
		Prepared by			x	x				
		Supervised by			x	x				
	Concept Design	Title			x	x				
		Prepared by			x	x				
		Supervised by			x	x				
	Preliminary Design	Title			x	x				
		Prepared by			x	x				
		Supervised by			x	x				
	Detail Design	Title			x	x				
		Prepared by			x	x				
		Supervised by			x	x				
	Environmental Impact Assessment	Title			x	x				
		Prepared by			x	x				
		Supervised by			x	x				
Social Indicators	Annual Traffic Demand Growth	%			x	x				
	Modal transfer	% (if applicable)			x	x				
	Annual Accident Rate Reduction	% (if applicable)			x	x				
Economic Indicators	EIRR (Economic Internal Rate of Return)	%			x	x				
	NPV (Net Present Value)	Euros			x	x				
	SDR (Social Discount Rate)	%			x	x				
	Project Planning & Design Cost	Euros			x	x				
	Project Construction Cost	Euros			x	x				
	Total Project Cost	Euros			x	x				

North Macedonia - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	Other	Data Collection Frequency - EP
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			x	x				
	FNPV (Financial Net Present Value)	Euros			x	x				
	FDR (Financial Discount Rate)	%			x	x				
	WACC (Weighted Average Cost of Capital)	%			x	x				
	First year of profit	year			x	x				
	DSCR (Debt Service Coverage Ratio)	%			x	x				
Environmental Indicators	CO2 emissions	+/- %		x						
	NOx emissions	+/- %		x						
	SO2 emission evolution	+/- %		x						
	Non-methane hydrocarbons	+/- %		x						
	Particulate matter (ppm)	+/- %		x						
	Noise levels along the section	+/- %		x						
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience of the network		x						
	Protected Natural Areas Affected	km2			x	x				
Geospatial data	Location of Road	Line geometry							ACAD	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates							ACAD	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates							ACAD	
	Location of parking areas	Line geometry or Point geometry or x,y coordinates							ACAD	
	Location of fuel stations	Point geometry or x,y coordinates							ACAD	

North Macedonia - data availability and formats

Road Safety

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Internal Affairs										Annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	Population	number of inhabitants											
	Fleet size	number of registered vehicles											
Road Safety Data	Total number of road traffic crashes	number											
	Total number of road traffic crashes - Motorway (tolled)	number											
	Total number of road traffic crashes - Motorway (toll-free)	number											
	Total number of road traffic crashes - Primary Roads (dual carriageway)	number											
	Total number of road traffic crashes - Primary Roads (single carriageway)	number											
	Total number of road traffic crashes - Secondary Roads	number											
	Total number of road traffic crashes - Rural Roads	number											
	Total number of road traffic crashes - Urban Roads	number											
	Road traffic crashes with serious injuries only	number											
	Fatal road traffic crashes	number											
	Seriously Injured	number of persons											
	Fatalities	number of persons											
	Cause of accident (%)	alcohol											
		speed											
		infrastructure											
		use of electronic devices (mobile phone, GPS, etc)											
		vehicle not corresponding to standard											
	Data valid for	year											

Montenegreo - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority												Annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code		Civil Aviation Authority		x	x							
	TEN-T Category	Core/ Comprehensive	Civil Aviation Authority		x	x							
	Node Name		Civil Aviation Authority		x	x							
	Ownership Type	Government/ Private/ Mixed	Civil Aviation Authority		x	x							
	Owner #1	Name	Civil Aviation Authority		x	x							
	Ownership Percentage	%	Civil Aviation Authority		x	x							
	Owner #x	Name	Civil Aviation Authority		x	x							
	Ownership Percentage	%	Civil Aviation Authority		x	x							
	Data valid from	year											
	Data valid to	year											
Infrastructure Data	Type	International/ Domestic	Civil Aviation Authority		x	x							
	Activity	Freight/ Passenger/ Passenger and freight	Civil Aviation Authority		x	x							
	Condition	Very Good Good Medium Poor Very Poor	Civil Aviation Authority		x	x							
	Number of runaways	number	Civil Aviation Authority		x	x							
	Number of passenger terminals	number	Civil Aviation Authority		x	x							
	IATA Landing Slot Classification	Level 1 (Non-Coordinated Airport) Level 2 (Schedules Facilitated Airport) Level 3 (Coordinated Airport)	Civil Aviation Authority		x	x							
	ICAO Airport Classification	Code A (Airplane Wingspan less than 15m; Outer Main Gear Wheel Span less than 4.5m) Code B (Airplane Wingspan from 15m up to less than 24m; Outer Main Gear Wheel Span from 4.5m up to less than 6m) Code C (Airplane Wingspan from 24m up to less than 36m; Outer Main Gear Wheel Span from 6m up to less than 9m) Code D (Airplane Wingspan from 36m up to less than 52m; Outer Main Gear Wheel Span from 9m up to less than 14m) Code E (Airplane Wingspan from 52m up to less than 65m; Outer Main Gear Wheel Span from 9m up to less than 14m) Code F (Airplane Wingspan from 65m up to less than 80m; Outer Main Gear Wheel Span from 14m up to less than 16m)	Civil Aviation Authority		x	x							
	ILS Category	I II III A III B III C	Civil Aviation Authority		x	x							
	Length of longest runway	meters	Civil Aviation Authority		x	x							
	Passenger terminals area	m2	Civil Aviation Authority		x	x							
	Apron area	m2	Civil Aviation Authority		x	x							
	Declared Capacity	Declared number of aircraft movements that can be scheduled per hour at an airport	Civil Aviation Authority		x	x							
	Apron Capacity	Number of airplanes on the apron at the same time	Civil Aviation Authority		x	x							
	Runway Capacity	Flights per hour	Civil Aviation Authority		x	x							
	Passenger Capacity	Passengers per year	Civil Aviation Authority		x	x							
	Freight Capacity	tons per year	Civil Aviation Authority		x	x							
	Rail Connection	yes - integrated to long distance rail network yes - rail shuttle no - other public shuttle no - no public shuttle connection	Civil Aviation Authority		x	x							
	Intelligent Transport Systems (ITS)	European air traffic management network (EATMN)	SMATSA										
		1. Systems and procedures for airspace management.											
		2. Systems and procedures for air traffic flow management.											
		3. Systems and procedures for air traffic services, in particular flight data processing systems, surveillance data processing systems and human-machine interface systems.											
		4. Communications systems and procedures for ground-to-ground, air-to-ground and air-to- air communications.											
		5. Navigation systems and procedures.											
		6. Surveillance systems and procedures.											
		7. Systems and procedures for aeronautical information services.											
		8. Systems and procedures for the use of meteorological information.											
		9. Others											
	Data valid from	year											
	Data valid to	year											
	Rail Connection	yes/no	Civil Aviation Authority		X	X							
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)	Civil Aviation Authority		X	X							

Montenegreo - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
TEN-T Compliance	Terminal availability	yes/no (At least one terminal is open to all operators in a non-discriminatory way and applies transparent, relevant and fair charges)	Civil Aviation Authority		X	X							
	Data valid from	year											
	Data valid to	year											

Montenegreo - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Road	Wood	Oil	Water	NRS	Air	Multi-Mod	Other	Data Collection Frequency - EP
Operations Data	Throughput	number of commercial aircraft movements per year	Civil Aviation Authority		X	X							
	Passenger traffic	passengers per year	Civil Aviation Authority		X	X							
	Freight traffic	tons of cargo per year	Civil Aviation Authority		X	X							
	Type of aircraft movements by type of operation	network carrier	Civil Aviation Authority		X	X							
		low cost carrier											
		charter											
		cargo											
	Passenger transit	%		X									
	Arrivals	%		X									
	Data valid for	year											
Regular Maintenance	Maintenance cost - Total	Euros per year	Civil Aviation Authority		X	X							
	Maintenance cost - Passenger terminals	Euros per year	Civil Aviation Authority		X	X							
	Maintenance cost - Freight terminals	Euros per year	Civil Aviation Authority		X	X							
	Maintenance cost - Runways	Euros per year	Civil Aviation Authority		X	X							
	Source of finance		Civil Aviation Authority		X	X							
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	Terminal Building	Civil Aviation Authority		X	X							
	Requiring upgrade to increase runway length	Runway Length	Civil Aviation Authority		X	X							
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		X									
	CO2 emissions			X									
	NOx emissions			X									
	SO2 emission evolution			X									
	Non-methane hydrocarbons			X									
	Particulate matter (ppm)			X									
	Climate change resilience	number of flooding incidents		X									
		number of closures due to adverse weather conditions											
	Data valid for	year											
Geospatial data	Location of the Airport	Point geometry or x,y coordinates		X									
	Data valid for	year											

Montenegreo - data availability and formats

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Road	Wood	Oil	Water	NRS	Air	Multi-Mod	Other	Data Collection Frequency - EP
Reporting Organization Data	Name of responsible Company/Authority		Customs Administration										Annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	Border with	country code			x	x							
	Corridor/ Route				x	x							
	Border Crossing Name				x	x							
	TEN-T Category	Core/ Comprehensive/ Not in TEN-T			x	x							
	Green Lanes	yes/no/planned			x	x							
	One-stop procedure (joint Border)	yes/no/planned											
		indicate type of joint BCP (for passengers/for goods/ collocated on the territory of one party/entry-entry joint controls, etc)											
Operations	Type of Controls/ Inspections Performed	phytosanitary			x	x							
		veterinary			x	x							
		radiological			x	x							
		other non-trade related controls (road charges collection, vehicles technical compliance, any other)			x	x							
	Data valid for	year											
Infrastructure	Number of lanes for trucks	entering			x	x							
		exiting			x	x							
	Number of lanes for buses	entering			x	x							
		exiting			x	x							
	Number of lanes for passenger cars	entering			x	x							
		exiting			x	x							
	Separate parking zones for trucks	yes/no			x	x							
	If yes, then truck parking capacity	vehicles			x	x							
	Truck queuing capacity	vehicles			x	x							
	State of play (customs/border police/other border agencies)	Booths (separate/ joint)			x	x							
		Data Systems (separate/ joint)			x	x							
		Physical inspection facilities (yes/ no)			x	x							
	Systematic Electronic Exchange of Data (SEED)	yes/no/planned			x	x							
	New Computerized Transport System (NCTS)	yes/no/planned			x	x							
	eQMS (Queue Management System)	yes/no/planned			x	x							
	Other Electronic Information System	yes/no/planned			x	x							
	Type of ITS	list all ITS installed			x	x							
	Data valid for	year											
Operations - Rail	Passenger Trains entering	number per 24 hours			x	x							
	Freight Trains entering	number per 24 hours			x	x							
	Dangerous Goods Trains/ Wagons entering	number per 24 hours			x	x							
	Average entry time passenger trains	minutes			x	x							
	Average entry time freight trains	minutes			x	x							
	Passenger Trains exiting	number per 24 hours			x	x							
	Freight Trains exiting	number per 24 hours			x	x							
	Dangerous Goods Trains/ Wagons exiting	number per 24 hours			x	x							
	Average exit time passenger trains	minutes			x	x							
	Average exit time freight trains	minutes			x	x							
	Data valid for	year			x	x							

Montenegreo - data availability and formats

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	Web	API	Meeting Data	Other	Data Collection Frequency - EP
Operations - Road	Passenger Cars entering	number per 24 hours (or week/ month/ year)			x	x							
	Buses entering	number per 24 hours (or week/ month/ year)			x	x							
	Freight Vehicles entering	number per 24 hours (or week/ month/ year)			x	x							
	Dangerous Goods Vehicles entering	number per 24 hours (or week/ month/ year)			x	x							
	Passenger Cars entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Freight Vehicles entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Buses entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Passenger Cars entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x									
	Freight Vehicles entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x									
	Buses entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x									
	Freight vehicles cleared by customs at the BCP	% of total freight vehicle volume			x	x							
	Freight vehicles entering for import	% of total freight vehicle volume			x	x							
	Freight vehicles entering Transit	% of total freight vehicle volume			x	x							
	Freight vehicles entering Empty	% of total freight vehicle volume			x	x							
	Passenger Cars exiting	number per 24 hours (or week/ month/ year)			x	x							
	Buses exiting	number per 24 hours (or week/ month/ year)			x	x							
	Freight Vehicles exiting	number per 24 hours (or week/ month/ year)			x	x							
	Dangerous Goods Vehicles Exiting	number per 24 hours (or week/ month/ year)			x	x							
	Passenger Cars exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Freight Vehicles exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Buses exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x									
	Passenger Cars exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x									
	Freight Vehicles exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x									
	Buses exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x									
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	Terminal Building			x	x							
	Requiring upgrade to IT Systems/ ITS	Adoption of New Computerized Transport System (NCTS)			x	x							
	Data valid for	year											
Geospatial data	Location of the border crossings	Point geometry or x,y coordinates		x									
	Data valid for	year											

Montenegreo - data availability and formats

EU Acquis

Category	Parameter	Input	Source	Info N/A	Excel	Word	Other
Reporting Organisation Data	Name of responsible Company/Authority		European Integration Office				
	Correspondence Address						
	Contact Person						
	Position						
	Phone number						
	Email						
EU Acquis Harmonisation	Is the status of EU Acquis harmonisation per individual EU legislation available? (yes/no)	We hope that we be able to provide status of EU Acquis harmonization per individual EU legislation when we establish the European Integration portal in the future, which means that we cannot provide this information at the moment.		x			
	If yes, then please provide the format this information is available in						
National Legislation	Is the list of National Legislation affected by the EU Acquis harmonisation available?			x			
	If yes, then please provide the format this information is available in						
Reporting	Please provide a list of the Reports you are already producing for EU Acquis.(Report title/Recipient)	Montenegro's Programme of Accession to the European Union (MPAEU) is a strategic document which includes 33 chapters and is designed in a tabular format. As the EU acquis constantly changes and evolves, and taking into account the dynamics of the negotiation process, Programme of Accession is being annually adapted to the changes in the process of development of the EU acquis . The Office for European Integration within the Quarterly Reports on overall activities within the process of Montenegro's integration into the European Union in the table form informs the Government of Montenegro, and the Parliament of Montenegro, on the number of opinions on proposed regulations.					
Methodology	Please provide a short description of the methodology you follow for the monitoring of the harmonisation process.	Division for Alignment of National Legislation with the Acquis European Integration, coordinates all activities in the field of harmonization of national legislation with EU acts, monitors the level of compliance of the legal system of Montenegro with the Acquis. According to the Article 40 of the Rules of Procedure of Government of Montenegro the drafter is required to submit, along with proposal of the act, completed forms of Statement of compatibility with Table of concordance. The Office is authorized to examine and verify the accuracy of the allegations in the Statement of compatibility and the Table of concordance of Montenegro with the Acquis. The Division constists from two groups, one dealing with the alignment of national legal acts in the field of political system and social services and the other dealing with the monitoring of the compliance of acts proposals in the field of economic, financial matters and sectoral policies. Giving an opinion on the act proposal submitted by the drafter is a multi-stage process in coordination with the competent ministry, which depends on the quality of the completed Statement of compatibility and the Table of concordance.					

Montenegreo - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	Web	API	Admin data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Capital Investments Directorate for Railway										Annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	TEN-T Category	Core/ Comprehensive				x							
	Corridor/ Route					x							
	International Route ID					x							
	National Route ID					x							
	Start Node Name					x							
	End Node Name					x							
	Start km	Direction A				x							
		Direction B				x							
	End km	Direction A				x							
		Direction B				x							
	Status	Planned/ Existing/ Upgrade				x							
	Data valid from	year											
	Data valid to	year											
Infrastructure Data	Capacity	trains/ day				x							
	Track gauge	750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1602 / 1668				x							
	Load gauge	A GAUGE: Total height 3.85 m above t - he rail and 1.28 m on either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle B+ GAUGE: Total height is 4.18 m above the rail and 1.36 m on either side of the track axle C GAUGE: Total height 4.65 m above the rail and 1.45 m on either side of the track axle				x							
	Condition of track (Operational/ Design Speed)	Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)				x							
	Number of tracks	Total (most relevant figures, e.g. if a single track railway of 10km has 2km stretch of two tracks, the relevant total is one track)				x							
	Traction	Diesel				x							
		Electrified				x							
	Rail voltage	25 000 Volts, 50Hz 15 000 Volts, 16 2/3 Hz 3 000 Volts, DC 1 500 Volts, DC 750 Volts DC 660 Volts DC 630 Volts DC				x							
	Length - Total (km)					x							
	Length - Open Track (km)					x							
	Length - Tunnels (km)					x							
	Length - Bridges over 12m length (km)					x							
	Tunnels	number				x							
	Level-Crossings	number				x							
	Max Design Speed	km per hour				x							
	Max Operating Speed	km per hour				x							
	Max Longitudinal Gradient (m per km)	Direction A				x							
		Direction B				x							
	Min radius	meters				x							
	Maximum train length	meters				x							
	Max Axle load	kN				x							
	Signalling Standard					x							
	Traffic Management					x							
	ERTMS in operation	yes/no				x							
	ERTMS level	1 - is designed as an add-on to or overlays a conventional line already equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard unit using GSM-R. 3 - still in its conceptual phase, allows for the introduction of a "moving block" technology.				x							

Montenegreo - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	Web	API	Admin data	Other	Data Collection Frequency - RP
	Control & Command System	Specify which system is used to ensure safety and to command and control movements of trains authorised to travel on the network				x							
	Data valid from	year											
	Data valid to	year											

Montenegreo - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
TEN-T Compliance	Electrification	yes/no (Not applicable for isolated networks. Applies to line trucks and sidings, to the extent necessary for electric train operation)				x							
	Railway Tunnels Compliance	yes/no as per Directive 2014/1303/EC as amended by 2016/912/EC and 2019/776/EC				x							
	Freight Line Speed	yes/no (At least 100km (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))				x							
	Freight Line Axle Load	yes/no (At least 22.5t (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))				x							
	Freight Line Train Length	yes/no (At least 750m (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))				x							
	Track Gauge 1435mm	yes/no (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network the track gauge of which is different and detached from the TEN-T network)				x							
	ERTMS Deployment	yes/no (European Train Control System (ETCS) - Not applicable for isolated networks)				x							
		yes/no (Global System for Mobile communications for Railways (GSM-R) - Not applicable for isolated networks)				x							
	Data valid from	year				x							
	Data valid to	year											
Operations Data	Passenger Trains	number per 24 hours				x							
	Freight Trains	number per 24 hours				x							
	Dangerous Goods Freight Trains	number per 24 hours				x							
	Capacity used	% of capacity				x							
	Passenger traffic	number per year				x							
		passenger km per year				x							
	Freight traffic	tons per year				x							
		tkm per year				x							
	TEUs	TEU containers per year				x							
	Unitised	% in standard loading units				x							
	Non Unitised	% of bulk and general traffic				x							
	National traffic	% of total traffic				x							
	Average travel time passenger (incl. stops)	long distance trains only				x							
	Average travel time freight (incl. stops)	long distance trains only				x							
	Data valid for	year											
Safety	Number of Incidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				x							
	Number of Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				x							
	Number of Significant Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety and ERA CSI Implementation Guidance)				x							
	Number of Serious Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)				x							
	Serious Accidents - Number of Serious Injuries	absolute number				x							
	Serious Accidents - Number of Fatalities	absolute number				x							
	Serious Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)				x							
	Serious Accidents - Amount of Material Damage	EUR per year				x							
	Serious Accidents - Disruption of traffic	hours per year				x							
	Serious Accidents - Indirect damages related to delays	EUR per year				x							
	Significant Accidents - Number of Significant Injuries	absolute number				x							
	Significant Accidents - Number of Fatalities	absolute number				x							
	Significant Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)				x							
	Significant Accidents - Amount of Material Damage	EUR per year				x							
	Significant Accidents - Disruption of traffic	hours per year				x							
	Significant Accidents - Indirect damages related to delays	EUR per year				x							
	Data valid for	year											
Regular Maintenance	Maintenance cost - Total	Euros per year per km				x							
	Maintenance cost - Total	Euros				x							
	Maintenance cost - Infrastructure	Euros per year (rail track, switches and crossings, tunnels, bridges, level crossings, etc.)				x							
	Maintenance cost - Signalling and telecom system	Euros per year (Maintenance of rail station signalling, automatic block system, automatic and mechanical level crossings, maintenance of railway telecommunication cable, self supporting telecommunications cable, optical cable, VHF/UHF devices, etc.)				x							
	Maintenance cost - Electrification system	Euros per year (Maintenance of catenaries, electric railway substations, overhead lines, etc.)				x							
	Source of finance					x							
	Data valid for	year											
Heavy Maintenance	Requiring heavy maintenance	length of section (km)				x							
	Requiring rehabilitation	length of section (km)				x							
	Data valid for	year											
Upgrading	Requiring upgrade to increase capacity	length of section (km)				x							
	Requiring upgrade (additional track/ new line)	length of section (km)				x							
	Data valid for	year											

Montenegreo - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x									
	CO2 emissions			x									
	NOx emissions			x									
	SO2 emission evolution			x									
	Non-methane hydrocarbons			x									
	Particulate matter (ppm)			x									
	Noise	Noise levels along the section		x									
	Climate change resilience	number of flooding incidents			x								
		number of closures due to adverse weather conditions			x								
		number of embankment failures			x								
	Data valid for	year											
Geospatial data	Location of Railway Line	Line geometry										x	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates										x	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates										x	
	Location of Stations	Line geometry or Point geometry or x,y coordinates										x	
	Location of level crossings	Point geometry or x,y coordinates										x	
	Location of serious accidents	Point geometry or x,y coordinates										x	
	Data valid for	year											

Montenegreo - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Vector	Geo	API	Online Web	Other	Data Collection Frequency - EP
Reporting Organisation Data	Name of responsible Company/Authority												On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code		Ministry of Capital Investments			x							
	TEN-T Category	Core/ Comprehensive	Ministry of Capital Investments			x							
	Corridor/ Route	Before project implementation	Ministry of Capital Investments			x							
		After project implementation	Ministry of Capital Investments			x							
	International Route ID	Before project implementation	Ministry of Capital Investments			x							
		After project implementation	Ministry of Capital Investments			x							
	National Route ID	Before project implementation	Ministry of Capital Investments			x							
		After project implementation	Ministry of Capital Investments			x							
	Start Node Name	Before project implementation	Ministry of Capital Investments			x							
		After project implementation	Ministry of Capital Investments			x							
	End Node Name	Before project implementation	Ministry of Capital Investments			x							
		After project implementation	Ministry of Capital Investments			x							
	Start km	Direction A - Before project implementation	Ministry of Capital Investments			x							
		Direction A - After project implementation	Ministry of Capital Investments			x							
		Direction B - Before project implementation	Ministry of Capital Investments			x							
		Direction B - After project implementation	Ministry of Capital Investments			x							
	End km	Direction A - Before project implementation	Ministry of Capital Investments			x							
		Direction A - After project implementation	Ministry of Capital Investments			x							
		Direction B - Before project implementation	Ministry of Capital Investments			x							
		Direction B - After project implementation	Ministry of Capital Investments			x							
Description of the Project	Project name	Text	Ministry of Capital Investments			x							
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure	Ministry of Capital Investments			x							
	Length (if linear)	Km/NA	Ministry of Capital Investments			x							
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)	Railway Authority of Montenegro			x							
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of Capital Investments			x							
Eligibility for TEN-T Project	Electrification	yes/no	Ministry of Capital Investments			x							
	Line speed 100 km/h (freight)	yes/no	Railway Authority of Montenegro			x							
	Axle load 22,5 t	yes/no	Railway Authority of Montenegro			x							
	Track gauge	yes/no	Railway Authority of Montenegro			x							
	Train length 740 m	yes/no	Railway Authority of Montenegro			x							
	ERTMS Deployment (ETCS)	yes/no		x									
	ERTMS Deployment (GSM-R)	yes/no		x									
TEN-T Compliance	Electrification	Before project implementation (yes/no)	Ministry of Capital Investments										
		After project implementation (yes/no)				x							
	Line speed 100 km/h (freight)	Before project implementation (yes/no)	Railway Authority of Montenegro										
		After project implementation (yes/no)				x							
	Axle load 22,5 t	Before project implementation (yes/no)	Railway Authority of Montenegro										
		After project implementation (yes/no)				x							
	Track gauge	Before project implementation (yes/no)	Railway Authority of Montenegro										
		After project implementation (yes/no)				x							
	Train length 740 m	Before project implementation (yes/no)	Railway Authority of Montenegro										
		After project implementation (yes/no)				x							
	ERTMS Deployment (ETCS)	Before project implementation (yes/no)											
		After project implementation (yes/no)		x									
	ERTMS Deployment (GSM-R)	Before project implementation (yes/no)											
		After project implementation (yes/no)		x									

Montenegreo - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source										Data Collection Frequency - RP
Project Status	Implemented	Project completed and put in operation	Railway Transport of Montenegro (ŽPCG)		x	x							
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.	Railway Transport of Montenegro (ŽPCG)		x	x							
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.	Railway Transport of Montenegro (ŽPCG)		x	x							
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.	Railway Transport of Montenegro (ŽPCG)		x	x							
IMPLEMENTED PROJECTS													
Project Timeline	Initial Project Completion Date	On tender issue	Railway Transport of Montenegro (ŽPCG)		x	x							
	Actual Project Completion Date		Railway Transport of Montenegro (ŽPCG)		x	x							
Project Funding Sources	National Budget	Euros	Railway Transport of Montenegro (ŽPCG)		x	x							
	WB	Euros	Railway Transport of Montenegro (ŽPCG)		x	x							
	EBRD	Euros	Railway Transport of Montenegro (ŽPCG)		x	x							
	EIB	Euros	Railway Transport of Montenegro (ŽPCG)		x	x							
	Other IFI	Specify	Railway Transport of Montenegro (ŽPCG)		x	x							
		Euros											
	Concessions	Specify	Railway Transport of Montenegro (ŽPCG)		x	x							
		Euros											
	EU Fund	Specify	Railway Transport of Montenegro (ŽPCG)		x	x							
		Euros											
	Other funding source	Specify	Railway Transport of Montenegro (ŽPCG)		x	x							
		Euros											
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)	Railway Transport of Montenegro (ŽPCG)		x	x							
	Prepared by		Railway Transport of Montenegro (ŽPCG)		x	x							
	Supervised by		Railway Transport of Montenegro (ŽPCG)		x	x							
Performance Indicators	Construction period	Forecasted (months)	Railway Transport of Montenegro (ŽPCG)		x	x							
		Actual (months)											
	CAPEX	Forecasted (Euros)	Railway Transport of Montenegro (ŽPCG)		x	x							
		Actual (Euros)											
	OPEX	Forecasted (Euros per year)	Railway Transport of Montenegro (ŽPCG)		x	x							
		Actual (Euros per year)											
	Maintenance cost	Forecasted (Euros per year)	Railway Transport of Montenegro (ŽPCG)		x	x							
		Actual (Euros per year)											
	Interest During Construction	%	Ministry of Capital Investments			x							
	EBITDA (last year)	Euros	Railway Transport of Montenegro (ŽPCG)		x	x							
	Revenue (if fare/toll collected)	Forecasted (Euros per year)	Railway Transport of Montenegro (ŽPCG)		x	x							
		Actual (Euros per year)											
	Traffic	Train traffic - forecasted	Railway Transport of Montenegro (ŽPCG)		x	x							
		Train traffic - actual	Railway Transport of Montenegro (ŽPCG)		x	x							
		Passenger traffic - forecasted	Railway Transport of Montenegro (ŽPCG)		x	x							
		Passenger traffic - actual	Railway Transport of Montenegro (ŽPCG)		x	x							
		Freight (tn) - forecasted	Railway Transport of Montenegro (ŽPCG)		x	x							
		Freight (tn) - actual	Railway Transport of Montenegro (ŽPCG)		x	x							
LIVE PROJECTS													
Project Timeline	Tender Start Date (month/ year)	Initially forecasted	Ministry of Capital Investments			x							
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of Capital Investments			x							
		Actual	Ministry of Capital Investments			x							
	Design Completion Date (month/ year)	Forecasted (on tender issue)	Ministry of Capital Investments			x							
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of Capital Investments			x							
		Actual	Ministry of Capital Investments			x							
	Project Completion Date (month/ year)	Forecasted (on tender issue)	Ministry of Capital Investments			x							
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of Capital Investments			x							

Montenegreo - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	GPS	API	Mobile data	Other	Data Collection Frequency - EP
Project Funding Sources	National Budget	Euros	Ministry of Capital Investments			x							
		allocated/ agreement signed (yes/no)	Ministry of Capital Investments			x							
	WB	Euros	Ministry of Capital Investments			x							
		allocated/ agreement signed (yes/no)	Ministry of Capital Investments			x							
	EBRD	Euros	Ministry of Capital Investments			x							
		allocated/ agreement signed (yes/no)	Ministry of Capital Investments			x							
	EIB	Euros	Ministry of Capital Investments			x							
		allocated/ agreement signed (yes/no)	Ministry of Capital Investments			x							
	Other IFI	Specify	Ministry of Capital Investments			x							
		Euros	Ministry of Capital Investments			x							
		allocated/ agreement signed (yes/no)	Ministry of Capital Investments			x							
	Concessions	Specify	Ministry of Capital Investments			x							
		Euros	Ministry of Capital Investments			x							
		allocated/ agreement signed (yes/no)	Ministry of Capital Investments			x							
	EU Fund	Specify	Ministry of Capital Investments			x							
		Euros	Ministry of Capital Investments			x							
		allocated/ agreement signed (yes/no)	Ministry of Capital Investments			x							
	Other funding source	Specify	Ministry of Capital Investments			x							
		Euros	Ministry of Capital Investments			x							
		allocated/ agreement signed (yes/no)	Ministry of Capital Investments			x							
Technical Project Status	Pre-Feasibility Study	yes/no	Ministry of Capital Investments			x							
	Feasibility Study	yes/no	Ministry of Capital Investments			x							
	Concept Design	yes/no	Ministry of Capital Investments			x							
	Preliminary Design	yes/no	Ministry of Capital Investments			x							
	Detail Design	yes/no	Ministry of Capital Investments			x							
	Environmental Impact Assessment	yes/no	Ministry of Capital Investments			x							
Project Documentation	Feasibility Study	Title	Ministry of Capital Investments			x							
		Prepared by	Ministry of Capital Investments			x							
		Supervised by	Ministry of Capital Investments			x							
	Concept Design	Title	Ministry of Capital Investments			x							
		Prepared by	Ministry of Capital Investments			x							
		Supervised by	Ministry of Capital Investments			x							
	Preliminary Design	Title	Ministry of Capital Investments			x							
		Prepared by	Ministry of Capital Investments			x							
		Supervised by	Ministry of Capital Investments			x							
	Detail Design	Title	Ministry of Capital Investments			x							
		Prepared by	Ministry of Capital Investments			x							
		Supervised by	Ministry of Capital Investments			x							
	Environmental Impact Assessment	Title	Ministry of Capital Investments			x							
		Prepared by	Ministry of Capital Investments			x							
		Supervised by	Ministry of Capital Investments			x							
Social Indicators	Annual Traffic Demand Growth	%	Railway Transport of Montenegro (ŽPCG)		x	x							
	Modal transfer	% (if applicable)	Ministry of Capital Investments			x							
	Annual Accident Rate Reduction	% (if applicable)	Ministry of Capital Investments			x							
Economic Indicators	EIRR (Economic Internal Rate of Return)	%	Ministry of Capital Investments			x							
	NPV (Net Present Value)	Euros		x									
	SDR (Social Discount Rate)	%		x									
	Project Planning & Design Cost	Euros	Ministry of Capital Investments			x							
	Project Construction Cost	Euros	Ministry of Capital Investments			x							
	Total Project Cost	Euros	Ministry of Capital Investments			x							
Financial Indicators	FIRR (Financial Internal Rate of Return)	%		x									
	FNPV (Financial Net Present Value)	Euros		x									
	FDR (Financial Discount Rate)	%		x									
	WACC (Weighted Average Cost of Capital)	%		x									
	First year of profit	year		x									
	DSCR (Debt Service Coverage Ratio)	%		x									

Montenegreo - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	GPS	API	Mobile data	Other	Data Collection Frequency - EP
Environmental Indicators	CO2 emissions	+/- %		x									
	NOx emissions	+/- %		x									
	SO2 emission evolution	+/- %		x									
	Non-methane hydrocarbons	+/- %		x									
	Particulate matter (ppm)	+/- %		x									
	Noise levels along the section	+/- %		x									
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience of the network		x									
	Protected Natural Areas Affected	km2		x									
Geospatial data	Location of Railway Line	Line geometry	Ministry of Capital Investments									x	
	Location of tunnels	Line geometry or Point geometry or x,y coordinates	Ministry of Capital Investments									x	
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates	Ministry of Capital Investments									x	
	Location of Stations	Line geometry or Point geometry or x,y coordinates	Ministry of Capital Investments									x	
	Location of level crossings	Point geometry or x,y coordinates	Ministry of Capital Investments									x	

Montenegreo - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info to EC	Road	Weed	GIS	WMS	WFS	API	Mobile App	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority												2018	The Directorate for State Roads has a GIS DB. Zero scan performed in 2018. Refer to notes for more details
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code		Directorate of State Roads				x							
	TEN-T Category	Core/ Comprehensive	Directorate of State Roads				x							
	Corridor/ Route		Directorate of State Roads				x							
	International Route ID		Directorate of State Roads				x							
	National Route ID		Directorate of State Roads				x							
	Start Node Name		Directorate of State Roads				x							
	End Node Name		Directorate of State Roads				x							
	Start km	Direction A	Directorate of State Roads				x							
		Direction B	Directorate of State Roads				x							
	End km	Direction A	Directorate of State Roads				x							
		Direction B	Directorate of State Roads				x							
	Status	Planned/ Existing/ Upgrade	Directorate of State Roads				x							
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Category	Motorways/ Dual Carriageways/ Single Carriageways	Directorate of State Roads				x							
	Pavement Condition	1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing Course (NWC) (IRI [2.84- 5.09]) 3b. Medium PRH, describes a road which needs Pavement Rehabiltation (PRH) (IRI [2.84 – 5.09]) 4. Poor, means that the road needs a new Overlay and Wearing Course (OWC) (IRI [5.09 – 8.94]) 5. Very Poor, describes a road which needs a Completely New Pavement (CNP) (IRI [8.94 -])	Directorate of State Roads				x							
	Lanes	Direction A	Directorate of State Roads				x							
		Direction B												
	Length - Total (km)	Direction A												
		Direction B												
	Length - Open Road (km)	Direction A	Directorate of State Roads		x									
		Direction B	Directorate of State Roads		x									
	Length - Tunnels (km)	Direction A	Directorate of State Roads		x									
		Direction B	Directorate of State Roads		x									
	Length - Bridges over 12m length (km)	Direction A	Directorate of State Roads		x									
		Direction B	Directorate of State Roads		x									
	Tunnels	Direction A (absolute number)	Directorate of State Roads		x									
		Direction B (absolute number)	Directorate of State Roads		x									
	Parking areas	Direction A (absolute number)	Directorate of State Roads		x									
		Direction B (absolute number)	Directorate of State Roads		x									
	Fuel Stations	Direction A (absolute number)	Directorate of State Roads		x									
		Direction B (absolute number)	Directorate of State Roads		x									
		Type of fuels (Diesel, Gas, CNG, LNG, Hydrogen, Charging Point)		x										
	Design Speed	km per hour		x										
	Speed limit	km per hour	Directorate of State Roads		x									
	Operating Speed	km per hour		x										
	Max Longitudinal Gradient (%)	Direction A	Directorate of State Roads		x									
		Direction B	Directorate of State Roads		x									
	Max Permitted Weight	per vehicle (tons)	Directorate of State Roads		x									
		axle load (kN)	Directorate of State Roads		x									
	Capacity	minimum lane capacity per hour (PCUs) for both directions		x										
	Tolled	yes/ no	Directorate of State Roads		x									
	Type of Tolls	per km/ per day	Directorate of State Roads		x									
	Charging Method	stations/ free flow/ vignette/ GNSS	Directorate of State Roads		x									
	Number of Toll Station Lanes	manned/ electronic	Directorate of State Roads		x									
	Intelligent Transport Systems (ITS)	yes/no	Directorate of State Roads		x									
	Type of ITS	list all ITS installed	Directorate of State Roads		x									
	Operation Supervised by Control Centre	yes/ no	Directorate of State Roads		x									
	Data valid from	year												
	Data valid to	year												
TEN-T Compliance	TEN-T Requirements Compliant	yes/no as per art. 17.3 (a) and (b) of Regulation 1315/2013	Directorate of State Roads		x									
	Alternative Fuels Availability	yes/no as per Directive no. 2014/94/EU	Directorate of State Roads		x									
	ITS Compliance	yes/no as per Directive 2010/40/EU	Directorate of State Roads		x									
	Tolling Interoperability	yes/no as per Directive 2004/52/EC and Commission Decision no. 2009/750/EC	Directorate of State Roads		x									
	Safety Compliance	yes/no as per Directive 2008/96/EC	Directorate of State Roads		x									
	Road Tunnels Compliance (length >500m)	yes/no as per Directive 2004/54/EC	Directorate of State Roads		x									
	Data valid from	year												
	Data valid to	year												

Montenegreo - data availability and formats

Roads - Network Performanoe Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Operations Data	Total traffic flow	AADT or vehicles per year											Monthly	
	Passenger cars	AADT or vehicles per year	Directorate of State Roads		x									
	Busses	AADT or vehicles per year	Directorate of State Roads		x									
	Trucks	AADT or vehicles per year	Directorate of State Roads		x									
	International traffic	% of AADT or total traffic flow		x										
	Percentage of HGVs	% of AADT or total traffic flow	Directorate of State Roads		x									
	Freight traffic flow	tons per year		x										
		vehicles per year	Directorate of State Roads		x									
	Dangerous goods vehicles	Number per year or % of AADT or total traffic flow	Ministry of Interior - Dangerous Goods	X										
	Passengers	number		x										
	Average travel time (PCs)	in minutes		x										
	Average travel time (HVGs)	in minutes		x										
	Toll Rate Currency	Currency (e.g. Euro)	Directorate of State Roads		x									
	Toll Rate Passenger Cars	per km (e.g. Euro per km)	Directorate of State Roads		x									
		per day (e.g. Euro per day)	Directorate of State Roads		x									
	Toll Rate Heavy Good Vehicles	per km (e.g. Euro per km)	Directorate of State Roads		x									
		per day (e.g. Euro per day)	Directorate of State Roads		x									
	% toll evasion	% of vehicles	Directorate of State Roads		x									
	Data valid for	year												
Road Safety	Total number of road traffic crash	absolute number	Ministry of Interior - Police											Information provided by Direktorate for State Roads
	Road traffic crash with serious injuries only	absolute number												
	Fatal road traffic crash	absolute number												
	Chainage (km position) of road traffic crashes with injury/ fatality													
	Total injured	number of persons												
	Seriously injured	number of persons												
	Fatalities	number of persons												
	Road Safety Audit carried out at design stage	yes/ no												
	Section ranked as high/risk	yes/ no												
	Road Safety Inspections carried out	Total number												
		Corresponding dates												
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per km per year	Directorate of State Roads		x									
	Maintenance cost - Open Road	Euros per km per year	Directorate of State Roads		x									
	Maintenance cost - Tunnel	Euros per km per year	Directorate of State Roads		x									
	Maintenance cost - Bridges	Euros per km per year	Directorate of State Roads		x									
	Heavy/ Periodic Maintenance Cost	Euros per km per year (Activities on a section of road at regular and relatively long intervals, aims to preserve the structural integrity of the road (preventive resurfacing, overlay, and pavement reconstruction)	Directorate of State Roads		x									
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention, such as collapsed culverts or landslides that block a road)		x										
	Winter Maintenance Cost	Euros per km per year		x										
	Routine Maintenance Cost	Euros per km per year (The rest of maintenance cost for the said year)	Directorate of State Roads		x									
	Source of finance		Directorate of State Roads		x									
	Data valid for	year	Directorate of State Roads		x									
Heavy/ Periodic Maintenance Requirements	Requiring rehabilitation - Open Road	length of section (km)	Directorate of State Roads		x									
	Requiring rehabilitation - Tunnel	length of section (km)	Directorate of State Roads		x									
	Requiring rehabilitation - Bridges	length of section (km)	Directorate of State Roads		x									
	Requiring heavy/ periodic maintenance - Open Road	length of section (km)	Directorate of State Roads		x									
	Requiring heavy/ periodic maintenance - Tunnel	length of section (km)	Directorate of State Roads		x									
	Requiring heavy/ periodic maintenance - Bridges	length of section (km)	Directorate of State Roads		x									
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity - Open Road	length of section (km)	Directorate of State Roads		x									
	Requiring upgrade to increase capacity - Tunnel	length of section (km)	Directorate of State Roads		x									
	Requiring upgrade to increase capacity - Bridges	length of section (km)	Directorate of State Roads		x									
	Data valid for	year												
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x										
	CO2 emissions			x										
	NOx emissions			x										
	SO2 emission evolution			x										
	Non-methane hydrocarbons			x										
	Particulate matter (ppm)			x										
	Noise	Noise levels along the section		x										
	Climate change resilience	number of flooding incidents	Directorate of State Roads		x									
		number of closures due to adverse weather conditions	Directorate of State Roads		x									
		number of embankment failures	Directorate of State Roads		x									
		number of winter maintenance days	Directorate of State Roads		x									
	Data valid for	year												
Geospatial data	Location of Road	Line geometry	Directorate of State Roads				X							
	Location of tunnels	Line geometry or Point geometry or x,y coordinates	Directorate of State Roads				X							
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates	Directorate of State Roads				X							
	Location of parking areas	Line geometry or Point geometry or x,y coordinates	Directorate of State Roads				X							
	Location of fuel stations	Point geometry or x,y coordinates	Directorate of State Roads				X							
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates		X										
	Data valid for	year												

Montenegreo - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Safe Type	Excel	Word	GIS	Image	Web	API	Mobile App	Other	Data Collection Frequency - RP
Reporting Organization Data	Name of responsible Company/Authority		Directorate for State Roads										On demand
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	TEN-T Category	Core/ Comprehensive			x								
	Corridor/ Route	Before project implementation			x								
		After project implementation			x								
	International Route ID	Before project implementation			x								
		After project implementation			x								
	National Route ID	Before project implementation			x								
		After project implementation			x								
	Start Node Name	Before project implementation			x								
		After project implementation			x								
	End Node Name	Before project implementation			x								
		After project implementation			x								
	Start km	Direction A - Before project implementation			x								
		Direction A - After project implementation			x								
		Direction B - Before project implementation			x								
		Direction B - After project implementation			x								
	End km	Direction A - Before project implementation			x								
		Direction A - After project implementation			x								
		Direction B - Before project implementation			x								
		Direction B - After project implementation			x								
Description of the Project	Project name	Text			x								
	Type of foreseen intervention	New infrastructure Reconstruction/rehabilitation Maintenance Horizontal/policy measure			x								
	Length (if linear)	Km/NA			x								
	Lanes	Direction A			x								
		Direction B			x								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			x								
Eligibility for TEN-T Project	Motorway/expressway	yes/no (new construction)			x								
	Other high-quality roads	yes/no (new construction)			x								
	Road rehabilitation/reconstruction	yes/ no (targeting capacity increase or road surface quality upgrade from very poor/poor/medium condition (IRI>2,84 to good/very good conditions))			x								
	Alternative fuels	yes/no			x								
	ITS compliance	yes/no			x								
	Tolling interoperability	yes/no			x								
	Safety compliance	yes/no			x								
	Road tunnels compliance	yes/no			x								
TEN-T Compliance	TEN-T Requirements Compliant	Before project implementation (yes/no)			x								
		After project implementation (yes/no)			x								
	Alternative Fuels Availability	Before project implementation (yes/no)			x								
		After project implementation (yes/no)			x								
	ITS Compliance	Before project implementation (yes/no)			x								
		After project implementation (yes/no)			x								
	Tolling Interoperability	Before project implementation (yes/no)			x								
		After project implementation (yes/no)			x								
	Safety Compliance	Before project implementation (yes/no)			x								
		After project implementation (yes/no)			x								
		Before project implementation (yes/no)			x								

Montenegreo - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Safe Type	Excel	Word	GIS	Image	Web	API	Mobile App	Other	Data Collection Frequency - RP
	Road Tunnels Compliance (length >500m)	After project implementation (yes/no)			x								

Montenegreo - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Video	MAPS	API	Meeting Min	Other	Data Collection Frequency - RP
Project Status	Implemented	Project completed and put in operation			x								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			x								
IMPLEMENTED PROJECTS					x								
Project Timeline	Initial Project Completion Date	On tender issue			x								
	Actual Project Completion Date				x								
Project Funding Sources	National Budget	Euros			x								
	WB	Euros			x								
	EBRD	Euros			x								
	EIB	Euros			x								
	Other IFI	Specify			x								
		Euros			x								
	Concessions	Specify			x								
		Euros			x								
	EU Fund	Specify			x								
		Euros			x								
	Other funding source	Specify			x								
		Euros			x								
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			x								
	Prepared by				x								
	Supervised by				x								
Performance Indicators	Construction period	Forecasted (months)			x								
		Actual (months)			x								
	CAPEX	Forecasted (Euros)			x								
		Actual (Euros)			x								
	OPEX	Forecasted (Euros per year)			x								
		Actual (Euros per year)			x								
	Maintenance cost	Forecasted (Euros per year)			x								
		Actual (Euros per year)			x								
	Interest During Construction	%			x								
	EBITDA (last year)	Euros			x								
	Revenue (if fare/toll collected)	Forecasted (Euros per year)			x								
		Actual (Euros per year)			x								
	Traffic	Passenger cars - forecasted			x								
		Passenger cars - actual			x								
		Busses - forecasted			x								
		Busses - actual			x								
		Trucks - forecasted			x								
		Trucks - actual			x								

Montenegreo - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WFS	API	Mobile data	Other	Data Collection Frequency - EP
LIVE PROJECTS					x								
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x								
		Actual			x								
	Design Completion Date (month/ year)	Forecasted (on tender issue)			x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x								
		Actual			x								
	Project Completion Date (month/ year)	Forecasted (on tender issue)			x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x								
Project Funding Sources	National Budget	Euros			x								
		allocated/ agreement signed (yes/no)			x								
	WB	Euros			x								
		allocated/ agreement signed (yes/no)			x								
	EBRD	Euros			x								
		allocated/ agreement signed (yes/no)			x								
	EIB	Euros			x								
		allocated/ agreement signed (yes/no)			x								
	Other IFI	Specify			x								
		Euros			x								
		allocated/ agreement signed (yes/no)			x								
	Concessions	Specify			x								
		Euros			x								
		allocated/ agreement signed (yes/no)			x								
	EU Fund	Specify			x								
		Euros			x								
		allocated/ agreement signed (yes/no)			x								
	Other funding source	Specify			x								
		Euros			x								
		allocated/ agreement signed (yes/no)			x								
Technical Project Status	Pre-Feasibility Study	yes/no			x								
	Feasibility Study	yes/no			x								
	Concept Design	yes/no			x								
	Preliminary Design	yes/no			x								
	Detail Design	yes/no			x								
	Environmental Impact Assessment	yes/no			x								
Project Documentation	Feasibility Study	Title			x								
		Prepared by			x								
		Supervised by			x								
	Concept Design	Title			x								
		Prepared by			x								
		Supervised by			x								
	Preliminary Design	Title			x								
		Prepared by			x								
		Supervised by			x								
	Detail Design	Title			x								
		Prepared by			x								
		Supervised by			x								
	Environmental Impact Assessment	Title			x								
		Prepared by			x								
		Supervised by			x								
Social Indicators	Annual Traffic Demand Growth	%			x								
	Modal transfer	% (if applicable)			x								
	Annual Accident Rate Reduction	% (if applicable)			x								
Economic Indicators	EIRR (Economic Internal Rate of Return)	%			x								
	NPV (Net Present Value)	Euros			x								
	SDR (Social Discount Rate)	%			x								
	Project Planning & Design Cost	Euros			x								
	Project Construction Cost	Euros			x								
	Total Project Cost	Euros			x								

Montenegreo - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Web	WFS	API	Mobile data	Other	Data Collection Frequency - EP
Financial Indicators	FIRR (Financial Internal Rate of Return)	%			x								
	FNPV (Financial Net Present Value)	Euros			x								
	FDR (Financial Discount Rate)	%			x								
	WACC (Weighted Average Cost of Capital)	%			x								
	First year of profit	year			x								
	DSCR (Debt Service Coverage Ratio)	%			x								
Environmental Indicators	CO2 emissions	+/- %			x								
	NOx emissions	+/- %			x								
	SO2 emission evolution	+/- %			x								
	Non-methane hydrocarbons	+/- %			x								
	Particulate matter (ppm)	+/- %			x								
	Noise levels along the section	+/- %			x								
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience of the network			x								
	Protected Natural Areas Affected	km2			x								
Geospatial data	Location of Road	Line geometry					x						
	Location of tunnels	Line geometry or Point geometry or x,y coordinates					x						
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates					x						
	Location of parking areas	Line geometry or Point geometry or x,y coordinates					x						
	Location of fuel stations	Point geometry or x,y coordinates					x						

Montenegreo - data availability and formats

Road Safety

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	VMS	WPS	API	Meta-data	Other	Data Collection Frequency - EU
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Capital Investments										Annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code				x	x							
	Population	number of inhabitants			x	x							
	Fleet size	number of registered vehicles			x	x							
Road Safety Data	Total number of road traffic crashes	number			x								
	Total number of road traffic crashes - Motorway (tolled)	number			x								
	Total number of road traffic crashes - Motorway (toll-free)	number			x								
	Total number of road traffic crashes - Primary Roads (dual carriageway)	number			x								
	Total number of road traffic crashes - Primary Roads (single carriageway)	number			x								
	Total number of road traffic crashes - Secondary Roads	number			x								
	Total number of road traffic crashes - Rural Roads	number			x								
	Total number of road traffic crashes - Urban Roads	number			x								
	Road traffic crashes with serious injuries only	number			x								
	Fatal road traffic crashes	number			x								
	Seriously injured	number of persons			x								
	Fatalities	number of persons			x								
	Cause of accident (%)	alcohol speed infrastructure use of electronic devices (mobile phone, GPS, etc) vehicle not corresponding to standard		x									
	Data valid for	year											

Serbia - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source		Info N/A	Excel	Word	GIS	Video	WPS	API	Meta-data	Other	Data Collection Frequency - TODIS	Comments
Reporting Organisation Data	Name of responsible Company/Authority		SMATSA	Airports of Serbia (AS)/ Airport Belgrade (AB) /MCTI										Annually	
	Correspondence Address														
	Contact Person														
	Position														
	Phone number														
	Email														
Localisation	Country Code			AB/ MCTI/ AS			x								
	TEN-T Category	Core/ Comprehensive		AB/ MCTI/ AS			x								
	Node Name			AB/ MCTI/ AS	x										
	Ownership Type	Government/ Private/ Mixed		AB/ MCTI/ AS			x						x		
	Owner #1	Name		AB/ MCTI/ AS			x								
	Ownership Percentage	%		AB/ MCTI/ AS			x						x		
	Owner #x	Name		AB/ MCTI/ AS			x						x		
	Ownership Percentage	%		AB/ MCTI/ AS			x						x		
	Data valid from	year		AB/ MCTI/ AS											
	Data valid to	year		AB/ MCTI/ AS											
Infrastructure Data	Type	International/ Domestic	Excel, xml	AB/ MCTI/ AS			x						x		
	Activity	Freight/ Passenger/ Passenger and freight	Excel, xml	AB/ MCTI/ AS									x		
	Condition	Very Good Good Medium Poor Very Poor		AB/ MCTI/ AS									x		
	Number of runaways	number	Excel, xml	AB/ MCTI/ AS									x		
	Number of passenger terminals	number		AB/ MCTI/ AS									x		
	IATA Landing Slot Classification	Level 1 (Non-Coordinated Airport) Level 2 (Schedules Facilitated Airport) Level 3 (Coordinated Airport)	Excel, xml	AB/ MCTI/ AS									x		
	ICAO Airport Classification	Code A (Airplane Wingspan less than 15m; Outer Main Gear Wheel Span less than 4.5m) Code B (Airplane Wingspan from 15m up to less than 24m; Outer Main Gear Wheel Span from 4.5m up to less than 6m) Code C (Airplane Wingspan from 24m up to less than 36m; Outer Main Gear Wheel Span from 6m up to less than 9m) Code D (Airplane Wingspan from 36m up to less than 52m; Outer Main Gear Wheel Span from 9m up to less than 14m) Code E (Airplane Wingspan from 52m up to less than 65m; Outer Main Gear Wheel Span from 9m up to less than 14m) Code F (Airplane Wingspan from 65m up to less than 80m; Outer Main Gear Wheel Span from 14m up to less than 16m)	Excel, xml	AB/ MCTI/ AS									x		
	ILS Category	I II III A III B III C	Excel, xml	AB/ MCTI/ AS									x		
	Length of longest runway	meters	Excel, xml	AB/ MCTI/ AS											
	Passenger terminals area	m2	Excel, xml	AB/ MCTI/ AS											
	Apron area	m2	Excel, xml	AB/ MCTI/ AS											
	Declared Capacity	Declared number of aircraft movements that can be scheduled per hour at an airport	Excel, xml	AB/ MCTI/ AS											
	Apron Capacity	Number of airplanes on the apron at the same time	Excel, xml	AB/ MCTI/ AS											
	Runway Capacity	Flights per hour	Excel (doesn't publish if it is not relevant)	AB/ MCTI/ AS											
	Passenger Capacity	Passengers per year		AB/ MCTI/ AS											
	Freight Capacity	tons per year		AB/ MCTI/ AS											
	Rail Connection	yes - integrated to long distance rail network yes - rail shuttle no - other public shuttle no - no public shuttle connection		AB/ / AS			x								Presented in Belgrade Airport Master Plan; Presented in Nis Airport Master Plan (Plaski Dokument detaljne regulacije aerodroma Nis 2015)

Serbia - data availability and formats

Airports - Network Performance Monitoring

Category	Parameter	Details	Source		Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - TODIS	Comments
	Intelligent Transport Systems (ITS)	European air traffic management network (EATMN)		AB/ / AS	x										
		1. Systems and procedures for airspace management.		AB/ / AS	x										
		2. Systems and procedures for air traffic flow management.		AB/ / AS	x										
		3. Systems and procedures for air traffic services, in particular flight data processing systems, surveillance data processing systems and human-machine interface systems.		AB/ / AS	x										
		4. Communications systems and procedures for ground-to-ground, air-to-ground and air-to- air communications.		AB/ / AS	x										
		5. Navigation systems and procedures.		AB/ / AS	x										
		6. Surveillance systems and procedures.		AB/ / AS	x										
		7. Systems and procedures for aeronautical information services.		AB/ / AS	x										
		8. Systems and procedures for the use of meteorological information.	UPDATE every 2-3 months	AB/ / AS		x									
		9. Others		AB/ / AS	x										
	Data valid from	year		AB/ / AS											
	Data valid to	year		AB/ / AS											
TEN-T Compliance	Rail Connection	yes/no		MTCI			x								
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)		AB/ / AS	x										
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-discriminatory way and applies transparent, relevant and fair charges)		AB/ / AS	x										
	Data valid from	year		AB/ / AS	x										
	Data valid to	year		AB/ / AS	x										
Operations Data	Throughput	number of commercial aircraft movements per year		AB/ / AS	x	x									Information about Nis airport publicly avalible (can be requested). Info about Belgrade Airport not avalible
	Passenger traffic	passengers per year		AB/ / AS	x	x									
	Freight traffic	tons of cargo per year		AB/ / AS	x	x									
	Type of aircraft movements by type of operation	network carrier		AB/ / AS	x	x									
		low cost carrier		AB/ / AS											
		charter		AB/ / AS											
		cargo		AB/ / AS											
	Passenger transit	%		AB/ / AS	x										
	Arrivals	%		AB/ / AS	x										
	Data valid for	year													
Regular Maintenance	Maintenance cost - Total	Euros per year			x	x									Not avalible for AP Belgrade. Airports of Serbia have information for all airports part of the AS and it will be difficult to get it for individual airport - it can be requested
	Maintenance cost - Passenger terminals	Euros per year			x	x									
	Maintenance cost - Freight terminals	Euros per year			x	x									
	Maintenance cost - Runways	Euros per year			x	x									
	Source of finance				x	x									
	Data valid for	year			x	x									
Upgrading	Requiring upgrade to increase capacity	Terminal Building			x	x									
	Requiring upgrade to increase runway length	Runway Length			x	x									
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		AB	X										Airport Belgrade is in the process of setting up the measurments
	CO2 emissions			AB	X										Ministry of environment might have it
	NOx emissions			AB	X										
	SO2 emission evolution			AB	X										
	Non-methane hydrocarbons			AB	X										
	Particulate matter (ppm)			AB	X										
	Climate change resilience	number of flooding incidents		AB	X										
		number of closures due to adverse weather conditions		AB											
	Data valid for	year													
Geospatial data	Location of the Airport	Point geometry or x,y coordinates		AB/AS				x							
	Data valid for	year						x							

Serbia - data availability and formats

Airports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Airports of Serbia (AS)/ Airport Belgrade (AB) /MCTI			x							On demand	Data for Airport Belgrade is not avalible as it is under concession. Data for Airport Nis potentially can be avalible upon request to the MCTI and in case if Feasibility Study has been prepared, however no projects took place recently and there are no planned projects at this moment
	Correspondence Address					x								
	Contact Person					x								
	Position					x								
	Phone number					x								
	Email					x								
Localisation	Country Code					x								
	TEN-T Category	Core/ Comprehensive				x								
	Node Name					x								
Description of the Project	Project name	Text		x										
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure		x										
	Length (if linear)	Km/NA		x										
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)		x										
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet		x										
Eligibility for TEN-T Project	Rail Connection	yes/no		x										
	Clean fuels availability	yes/no (Only applicable for the Core Network Airports)		x										
	Terminal availability	yes/no (At least one terminal is open to all operators in a non-discriminatory way and applies transparent, relevant and fair charges)		x										
TEN-T Compliance	Rail connection	Before project implementation (yes/no)		x										
		After project implementation (yes/no)		x										
	Clean fuels availability	Before project implementation (yes/no)		x										
		After project implementation (yes/no)		x										
	Terminal Availability	Before project implementation (yes/no)		x										
		After project implementation (yes/no)		x										
Project Status	Implemented	Project completed and put in operation		x										
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.		x										
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.		x										
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.		x										
IMPLEMENTED PROJECTS				x										
Project Timeline	Initial Project Completion Date	On tender issue		x										
	Actual Project Completion Date			x										
Project Funding Sources	National Budget	Euros		x										
	WB	Euros		x										
	EBRD	Euros		x										
	EIB	Euros		x										
	Other IFI	Specify		x										
		Euros												
	Concessions	Specify		x										
		Euros												
	EU Fund	Specify		x										
		Euros												
	Other funding source	Specify		x										
		Euros												
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)		x										
	Prepared by			x										
	Supervised by			x										

Serbia - data availability and formats

Airports - Projeot Monitoring

Category	Parameter	Details	Source	Excel, MS Word	Excel	Word	GIS	Video	MP3	API	Mobile data	Other	Data Collection Frequency - EP	Comments
Performance Indicators	Construction period	Forecasted (months)		x										
		Actual (months)												
	CAPEX	Forecasted (Euros)		x										
		Actual (Euros)												
	OPEX	Forecasted (Euros per year)		x										
		Actual (Euros per year)												
	Maintenance cost	Forecasted (Euros per year)		x										
		Actual (Euros per year)												
	Interest During Construction	%		x										
	EBITDA (last year)	Euros		x										
	Revenue (if fare/toll collected)	Forecasted (Euros per year)		x										
		Actual (Euros per year)												
	Traffic	Throughput - forecasted		x										
		Throughput - actual												
		Passenger traffic - forecasted												
		Passenger traffic - actual												
		Freight (tn) - forecasted												
		Freight (tn) - actual												
LIVE PROJECTS				x										
Project Timeline	Tender Start Date (month/ year)	Initially forecasted		x	x									
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet												
		Actual												
	Design Completion Date (month/ year)	Forecasted (on tender issue)		x										
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet												
		Actual												
	Project Completion Date (month/ year)	Forecasted (on tender issue)		x										
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet												
Project Funding Sources	National Budget	Euros		x										
		allocated/ agreement signed (yes/no)												
	WB	Euros		x										
		allocated/ agreement signed (yes/no)												
	EBRD	Euros		x										
		allocated/ agreement signed (yes/no)												
	EIB	Euros		x										
		allocated/ agreement signed (yes/no)												
	Other IFI	Specify		x										
		Euros												
		allocated/ agreement signed (yes/no)												
	Concessions	Specify		x										
		Euros												
		allocated/ agreement signed (yes/no)												
	EU Fund	Specify		x										
		Euros												
		allocated/ agreement signed (yes/no)												
	Other funding source	Specify		x										
		Euros												
		allocated/ agreement signed (yes/no)												
Technical Project Status	Pre-Feasibility Study	yes/no		x										
	Feasibility Study	yes/no		x										
	Concept Design	yes/no		x										
	Preliminary Design	yes/no		x										
	Detail Design	yes/no		x										
	Environmental Impact Assessment	yes/no		x										
Project Documentation	Feasibility Study	Title		x										
		Prepared by												
		Supervised by												
	Concept Design	Title		x										
		Prepared by												
		Supervised by												
	Preliminary Design	Title		x										
		Prepared by												
		Supervised by												
	Detail Design	Title		x										
		Prepared by												
		Supervised by												
	Environmental Impact Assessment	Title		x										
		Prepared by												
		Supervised by												

Serbia - data availability and formats

Airports - Projeot Monitoring

Category	Parameter	Details	Source	Excel, MS Word	Excel	Word	GIS	Video	MP3	API	Mobile data	Other	Data Collection Frequency - EP	Comments
Social Indicators	Annual Traffic Demand Growth	%		x										
	Modal transfer	% (if applicable)		x										
	Annual Accident Rate Reduction	% (if applicable)		x										
Economic Indicators	EIRR (Economic Internal Rate of Return)	%		x										
	NPV (Net Present Value)	Euros		x										
	SDR (Social Discount Rate)	%		x										
	Project Planning & Design Cost	Euros		x										
	Project Construction Cost	Euros		x										
	Total Project Cost	Euros		x										
Financial Indicators	FIRR (Financial Internal Rate of Return)	%		x										
	FNPV (Financial Net Present Value)	Euros		x										
	FDR (Financial Discount Rate)	%		x										
	WACC (Weighted Average Cost of Capital)	%		x										
	First year of profit	year		x										
	DSCR (Debt Service Coverage Ratio)	%		x										
Environmental Indicators	CO2 emissions	+/- %		x										
	NOx emissions	+/- %		x										
	O2 emission evolution	+/- %		x										
	Non-methane hydrocarbons	+/- %		x										
	Particulate matter (ppm)	+/- %		x										
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience		x										
	Protected Natural Areas Affected	km2		x										
Geospatial data	Location of the Airport	Point geometry or x,y coordinates		x			x							

Serbia - data availability and formats

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - BP	Comments
Reporting Organisation Data	Name of responsible Company/Authority													Custom office is handling data. BCPsa are regulated by 2 countries. In a custom system it is custom office who is collecting data and for example they collect for both rail and road. The information is received per custom declaration
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code		Customs											
	Border with	country code	Ministry of interior			x								
	Corridor/ Route		Customs											Per customs office name
	Border Crossing Name		Ministry of interior			x								
	TEN-T Category	Core/ Comprehensive/ Not in TEN-T		x										
	Green Lanes	yes/no/planned	Customs			x								Ministry of Trade to be checked
	One-stop procedure (Joint Border)	yes/no/planned	Customs			x								
		indicate type of joint BCP (for passengers/for goods/ collocated on the territory of one party/entry-entry joint controls, etc)	Customs			x								
Operations	Type of Controls/ Inspections Performed	phytosanitary	Ministry of interior			x								Ministry of agriculture
		veterinary	Ministry of interior			x								Ministry of agriculture
		radiological	Ministry of interior			x								Ministry of agriculture
		other non-trade related controls (road charges collection, vehicles technical compliance, any other)	Ministry of interior			x								Ministry of agriculture
	Data valid for	year	Ministry of interior			x								
Infrastructure	Number of lanes for trucks	entering	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
		exiting	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
	Number of lanes for buses	entering	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
		exiting	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
	Number of lanes for passenger cars	entering	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
		exiting	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
	Separate parking zones for trucks	yes/no	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
	If yes, then truck parking capacity	vehicles	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
	Truck queuing capacity	vehicles	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
	State of play (customs/border police/other border agencies)	Booths (separate/ joint)	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
		Data Systems (separate/ joint)	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
		Physical inspection facilities (yes/ no)	Ministry of interior			x								Direkcija za imovinu http://rdi.gov.rs/lat/index.php
	Systematic Electronic Exchange of Data (SEED)	yes/no/planned	Customs		x	x								
	New Computerized Transport System (NCTS)	yes/no/planned	Customs		x	x								
	eQMS (Queue Management System)	yes/no/planned		x										
	Other Electronic Information System	yes/no/planned	Customs			x								Customs is planning a new project to automise all procedures also for import and export, Single Window, Integrated tarif system
	Type of ITS	list all ITS installed		x										
	Data valid for	year												
Operations - Rail	Passenger Trains entering	number per 24 hours	Ministry of interior		x									
	Freight Trains entering	number per 24 hours	Ministry of interior		x									
	Dangerous Goods Trains/ Wagons entering	number per 24 hours	Ministry of interior			x								
	Average entry time passenger trains	minutes	Ministry of interior			x								
	Average entry time freight trains	minutes	Ministry of interior			x								
	Passenger Trains exiting	number per 24 hours	Ministry of interior		x									
	Freight Trains exiting	number per 24 hours	Ministry of interior		x									
	Dangerous Goods Trains/ Wagons exiting	number per 24 hours	Ministry of interior			x								
	Average exit time passenger trains	minutes	Ministry of interior			x								
	Average exit time freight trains	minutes	Ministry of interior			x								
	Data valid for	year	Ministry of interior											

Serbia - data availability and formats

Border Crossings - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - BP	Comments
Operations - Road	Passenger Cars entering	number per 24 hours (or week/ month/ year)	Ministry of interior		x									
	Buses entering	number per 24 hours (or week/ month/ year)	Ministry of interior		x									
	Freight Vehicles entering	number per 24 hours (or week/ month/ year)	Ministry of interior		x									Information on empy truck and truck with goods
	Dangerous Goods Vehicles entering	number per 24 hours (or week/ month/ year)	Ministry of interior			x								
	Passenger Cars entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Freight Vehicles entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										Entry time (border police, customs) - exit time from the border
	Buses entering - Average waiting/queuing time	minutes (before the effective start of the control procedure)		x										
	Passenger Cars entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x										
	Freight Vehicles entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)	Customs		x									Entry time (border police, customs) - exit time from the border
	Buses entering - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x										
	Freight vehicles cleared by customs at the BCP	% of total freight vehicle volume	Customs		x									Possibility to get count per vehicle and tonns
	Freight vehicles entering for Import	% of total freight vehicle volume		x										
	Freight vehicles entering Transit	% of total freight vehicle volume		x										
	Freight vehicles entering Empty	% of total freight vehicle volume	Ministry of interior		x									Possibility to get count per vehicle and tonns
	Passenger Cars exiting	number per 24 hours (or week/ month/ year)	Ministry of interior		x									
	Buses exiting	number per 24 hours (or week/ month/ year)	Ministry of interior		x									
	Freight Vehicles exiting	number per 24 hours (or week/ month/ year)	Ministry of interior		x									
	Dangerous Goods Vehicles Exiting	number per 24 hours (or week/ month/ year)	Customs		x	x								
	Passenger Cars exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)	Ministry of interior			x								
	Freight Vehicles exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)	Ministry of interior			x								
	Buses exiting - Average waiting/queuing time	minutes (before the effective start of the control procedure)	Ministry of interior			x								
	Passenger Cars exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x										
	Freight Vehicles exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x										
	Buses exiting - Average duration of control procedures	minutes (including weighing the trucks, customs procedures, and phytosanitary, veterinary and radiological inspections)		x										
	Data valid for	year		x										
Upgrading	Requiring upgrade to increase capacity	Terminal Building		x										
	Requiring upgrade to IT Systems/ ITS	Adoption of New Computerized Transport System (NCTS)	Customs	x	x									Upgrade of NCTS
	Data valid for	year		x										
Geospatial data	Location of the border crossings	Point geometry or x,y coordinates					x							
	Data valid for	year												

Serbia - data availability and formats

EU Acquis

Category	Parameter	Input	Source	Info N/A	Excel	Word	Other
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Construction, Transport and Infrastructure				
	Correspondence Address						
	Contact Person						
	Position						
	Phone number						
	Email						
EU Acquis Harmonisation	Is the status of EU Acquis harmonisation per individual EU legislation available? (yes/no)					x	
	If yes, then please provide the format this information is available in						
National Legislation	Is the list of National Legislation affected by the EU Acquis harmonisation available?					x	
	If yes, then please provide the format this information is available in						
Reporting	Please provide a list of the Reports you are already producing for EU Acquis.(Report title/Recipient)	National Plan for the Adoption of EU Aquis (NPAA)					
		Annual Reports for the EC (negotiation positions 14 and 21)					
		One-time report for Transport Community Secretariat					
Methodology	Please provide a short description of the methodology you follow for the monitoring of the harmonisation process.	For each of the EU legislation which is being transposed into national legislation, a Table of Concordance and Table of Correlation is being made. From those tables, it can be seen the level of harmonization with the national legislation in which it is being transposed, for each individual article, paragraph, point of the EU law.					

Serbia - data availability and formats

Freight Terminal - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Construction, Transport and Infrastructure										Annually	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	TEN-T Category	Core/ Comprehensive			x									
	Node Name				x									
	Ownership Type	Government/ Private/ Mixed			x									
	Owner #1	Name		x										
	Ownership Percentage	%		x										
	Owner #x	Name		x										
	Ownership Percentage	%		x										
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Total area	ha		x										Ministry is collecting data for only 2 terminals - Žit (Belgrade Ranzirna) and terminal Batajnica. For those 2 Ministry has all information. For the private terminals data is avalible only about location and connectivity to railways.
	Condition	Very Good Good Medium Poor Very Poor		x										
	Transhipment equipment	Gantry cranes, Mobile cranes, Fork lifters, Reach stackers, Luffing-slewing cranes, etc.		x										
	Transhipment facilities for intermodal transport	yes/ no		x										
	Rail Connection	yes/no				x								This exist in word in a report on the Ministry webpage - 'Informacije o terminalima'
		number of tracks connecting the port with the hinterland network				x								
	Traction	Diesel				x								
		Electrified				x								
	Load gauge	A GAUGE: Total height 3.85 m above t - he rail and 1.28 m on either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle				x								
	Max Axle load	kN				x								
	Road Connection	yes/no		x										Ministry is collecting data for only 2 terminals - Žit (Belgrade Ranzirna) and terminal Batajnica. For those 2 Ministry has all information. For the private terminals data is avalible only about location and connectivity to railways.
		number of lanes connecting the port with the hinterland network												
	IWW Connection	yes/no		x										
	Sea Connection	yes/no		x										
	Air Connection	yes/no		x										
	Freight Capacity	tons per year (terminal maximum cargo handling capacity)		x										
	Open storage	m2		x										
	Silos Capacity	m3		x										
	Stack area	m2		x										
	Tanks Capacity	m3		x										
	Warehouse Capacity	m3		x										
	Reefer Capacity	number		x										
	Fridge Capacity	m3		x										
	Hazardous goods Capacity	m3		x										
	Data valid from	year												
	Data valid to	year												
TEN-T Compliance	Inter-modality	Terminals provide the possibility to tranship all types of standard intermodal loading units (containers, swap bodies, trailers).		x										Ministry is collecting data for only 2 terminals - Žit (Belgrade Ranzirna) and terminal Batajnica. For those 2 Ministry has all information. For the private terminals data is avalible only about location and connectivity to railways.
	740m train length	Fulfilment of this criterion is restricted to recently constructed terminals.			x									
	Electrified access	Enable direct train departure to the (Corridor) electrified line. At least one in/outbound track line should provide electrifications for this criterion to be considered fulfilled.			x									
	Open availability	Free non-discriminatory access and transparent charges.		x										Ministry is collecting data for only 2 terminals - Žit (Belgrade Ranzirna) and terminal Batajnica. For those 2 Ministry has all information. For the private terminals data is avalible only about location and connectivity to railways.
	Data valid from	year												
	Data valid to	year												

Serbia - data availability and formats

Freight Terminal - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Operations Data	Terminal traffic	vehicles per year		x										Ministry is collecting data for only 2 terminals - Žit (Belgrade Ranzirna) and terminal Batajnica. For those 2 Ministry has all information. For the private terminals data is avalible only about location and connectivity to railways.
		trains per year												
		vessels per year												
		aircrafts per year												
	Freight traffic	tons per year		x										
	TEU tons	kT/year		x										
	Domestic traffic	% of TEU tons		x										
	Transport Community Traffic	% of TEU tons		x										
	EU traffic	% of TEU tons		x										
	Storage capacity used	% of capacity		x										
	Transhipment capacity used	% of capacity		x										
	Data valid for	year		x										
Regular Maintenance	Maintenance cost - Total	Euros per year		x										
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention)		x										
	Routine Maintenance Cost	Euros per year (The rest of maintenance cost for the said year)		x										
	Source of finance					x								
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	yes/no												
	Data valid for	year												
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)			x									Exist only for Batajnica depending on Fesibility Study. To be checked if there will be future measurments
	CO2 emissions				x									
	NOx emissions				x									
	SO2 emission evolution				x									
	Non-methane hydrocarbons				x									
	Particulate matter (ppm)				x									
	Climate change resilience	number of flooding incidents			x									
	Data valid for	year			x									
Geospatial data	Location of the Freight Terminals	Point geometry or x,y coordinates					x							
	Data valid for	year					x							

Serbia - data availability and formats

Freight Terminal - Project Monitoring

Category	Parameter	Details	Source	Info on PA	Excel	Word	GIS	DWG	WFS	API	Photo/ data	CSDU	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Construction, Transport and Infrastructure										On demand	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	TEN-T Category	Core/ Comprehensive			x	x								
	Node Name				x	x								
Description of the Project	Project name	Text			x	x								
	Type of foreseen intervention	New Infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			x	x								
	Length (if linear)	Km/NA			x	x								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			x	x								
	Estimated Implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x								
Eligibility for TEN-T Project	Inter-modality	yes/no (Terminals provide the possibility to tranship all types of standard intermodal loading units (containers, swap bodies, trailers))		x										
	740m train length	yes/no (Fulfilment of this criterion is restricted to recently constructed terminals)			x	x								
	Electrified access	yes/no (Enable direct train departure to the (Corridor) electrified line. At least one in/outbound track line should provide electrifications for this criterion to be considered fulfilled)			x	x								
	Open availability	yes/no (Free non-discriminatory access and transparent charges)			x									
TEN-T Compliance	Inter-modality	Before project implementation (yes/no)			x									
		After project implementation (yes/no)			x									
	740m train length	Before project implementation (yes/no)			x	x								
		After project implementation (yes/no)			x	x								
	Electrified access	Before project implementation (yes/no)			x	x								
		After project implementation (yes/no)			x	x								
	Open availability	Before project implementation (yes/no)			x	x								
		After project implementation (yes/no)			x	x								
Project Status	Implemented	Project completed and put in operation			x	x								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			x	x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			x	x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			x	x								
IMPLEMENTED PROJECTS														
Project Timeline	Initial Project Completion Date	On tender issue			x	x								
	Actual Project Completion Date				x	x								
Project Funding Sources	National Budget	Euros			x	x								
	WB	Euros			x	x								
	EBRD	Euros			x	x								
	EIB	Euros			x	x								
	Other IFI	Specify			x	x								
		Euros												
	Concessions	Specify			x	x								
		Euros												
	EU Fund	Specify			x	x								
		Euros												
	Other funding source	Specify			x	x								
		Euros												
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			x	x								
	Prepared by				x	x								
	Supervised by				x	x								

Serbia - data availability and formats

Freight Terminal - Projeot Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Video	WFS	API	Media Info	Other	Data Collection Frequency - RP	Comments
Performance Indicators	Construction period	Forecasted (months)			x	x								
		Actual (months)												
	CAPEX	Forecasted (Euros)		x										
		Actual (Euros)												
	OPEX	Forecasted (Euros per year)		x										
		Actual (Euros per year)												
	Maintenance cost	Forecasted (Euros per year)		x										
		Actual (Euros per year)												
	Interest During Construction	%		x										
	EBITDA (last year)	Euros		x										
	Revenue (if fare/toll collected)	Forecasted (Euros per year)		x										
		Actual (Euros per year)												
	Traffic	Terminal traffic - forecasted		x										
		Terminal traffic - actual												
		Freight (tn) - forecasted												
		Freight (tn) - actual												
LIVE PROJECTS														
Project Timeline	Tender Start Date (month/ year)	Initially forecasted		x										
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet												
		Actual												
	Design Completion Date (month/ year)	Forecasted (on tender issue)		x										
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet												
		Actual												
	Project Completion Date (month/ year)	Forecasted (on tender issue)			x	x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet												
Project Funding Sources	National Budget	Euros			x	x								
		allocated/ agreement signed (yes/no)												
	WB	Euros			x	x								
		allocated/ agreement signed (yes/no)												
	EBRD	Euros			x	x								
		allocated/ agreement signed (yes/no)												
	EIB	Euros			x	x								
		allocated/ agreement signed (yes/no)												
	Other IFI	Specify			x	x								
		Euros												
		allocated/ agreement signed (yes/no)												
	Concessions	Specify			x	x								
		Euros												
		allocated/ agreement signed (yes/no)												
	EU Fund	Specify			x	x								
		Euros												
		allocated/ agreement signed (yes/no)												
	Other funding source	Specify			x	x								
		Euros												
		allocated/ agreement signed (yes/no)												
Technical Project Status	Pre-Feasibility Study	yes/no			x	x								
	Feasibility Study	yes/no			x	x								
	Concept Design	yes/no			x	x								
	Preliminary Design	yes/no			x	x								
	Detail Design	yes/no			x	x								
	Environmental Impact Assessment	yes/no			x	x								
Project Documentation	Feasibility Study	Title			x	x								
		Prepared by												
		Supervised by												
	Concept Design	Title			x	x								
		Prepared by												
		Supervised by												
	Preliminary Design	Title			x	x								
		Prepared by												
		Supervised by												
	Detail Design	Title			x	x								
		Prepared by												
		Supervised by												
	Environmental Impact Assessment	Title			x	x								
		Prepared by												

Serbia - data availability and formats

Freight Terminal - Projeot Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Video	WFS	API	Media Info	Other	Data Collection Frequency - RP	Comments
		Supervised by												

Serbia - data availability and formats

Freight Terminal - Projeot Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Video	WFS	API	Media Info	Other	Data Collection Frequency - RP	Comments
Social Indicators	Annual Traffic Demand Growth	%		x										Data doesn't exist in the database, but is availble in the textual information (FS or similar) so information in theory is availble but it will take a bit of time to extract it
	Modal transfer	% (if applicable)		x										
	Annual Accident Rate Reduction	% (if applicable)		x										
Economic Indicators	EIRR (Economic Internal Rate of Return)	%		x										
	NPV (Net Present Value)	Euros		x										
	SDR (Social Discount Rate)	%		x										
	Project Planning & Design Cost	Euros			x	x								
	Project Construction Cost	Euros			x	x								
	Total Project Cost	Euros			x	x								
Financial Indicators	FIRR (Financial Internal Rate of Return)	%		x										Data doesn't exist in the database, but is availble in the textual information (FS or similar) so information in theory is availble but it will take a bit of time to extract it
	FNPV (Financial Net Present Value)	Euros		x										
	FDR (Financial Discount Rate)	%		x										
	WACC (Weighted Average Cost of Capital)	%		x										
	first year of profit	year		x										
	DSCR (Debt Service Coverage Ratio)	%		x										
Environmental Indicators	CO2 emissions	+/- %		x										
	NOx emissions	+/- %		x										
	O2 emission evolution	+/- %		x										
	Non-methane hydrocarbons	+/- %		x										
	Particulate matter (ppm)	+/- %		x										
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience		x										
	Protected Natural Areas Affected	km2		x										
Geospatial data	Location of the Freight Terminals	Point geometry or x,y coordinates		x										

Serbia - data availability and formats

Geospatial Data

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Republic Geodetic Authority											
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
NUTS Level 0	Geometry	Line or polygon geometry of the country boundary			x		x	x	x		x	x		CSV, JSON, SQLite, GPKG, KML- Please visit https://a3.geosrbija.rs/ for more information
	NUTS0 code				x		x	x	x		x	x		
	NUTS0 name				x		x	x	x		x	x		
NUTS Level 1	Geometry	Line or polygon geometry of NUTS level 1			x		x	x	x		x	x		
	NUTS1 code				x		x	x	x		x	x		
	NUTS1 name				x		x	x	x		x	x		
NUTS Level 2	Geometry	Line or polygon geometry of NUTS level 2			x		x	x	x		x	x		
	NUTS2 code				x		x	x	x		x	x		
	NUTS2 name				x		x	x	x		x	x		
NUTS Level 3	Geometry	Line or polygon geometry of NUTS level 3			x		x	x	x		x	x		
	NUTS3 code				x		x	x	x		x	x		
	NUTS3 name				x		x	x	x		x	x		
Settlements	Geometry	point geometry of settlements					x	x	x		x			
	Settlement code						x	x	x		x			
	Settlement type						x	x	x		x			
	Settlement name						x	x	x		x			
Roads (National and Strategic Road Network)	Location of Road	Line geometry					x	x	x		x			
	Location of tunnels	Line geometry or Point geometry or x,y coordinates												
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates												
	Location of parkings	Line geometry or Point geometry or x,y coordinates										x		There are some data but not updated. Please visit https://a3.geosrbija.rs/ for more information
	Location of fuel stations	Point geometry or x,y coordinates										x		There are some data but not updated. Please visit https://a3.geosrbija.rs/ for more information
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates										x		Available at data.gov.rs
Rail	Location of Railway Line	Line geometry					x	x	x		x			
	Location of tunnels	Line geometry or Point geometry or x,y coordinates												
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates												
	Location of Stations	Line geometry or Point geometry or x,y coordinates										x		There are some data but not updated. Please visit https://a3.geosrbija.rs/ for more information
	Location of level crossings	Point geometry or x,y coordinates										x		There are some data but not updated. Please visit https://a3.geosrbija.rs/ for more information
	Location of serious accidents	Point geometry or x,y coordinates		x										
Inland Waterways	Location of the IWW	Line geometry					x	x	x		x			
	Location of the IWW port	Point geometry or x,y coordinates					x					x		There are some data but not updated. Please visit https://a3.geosrbija.rs/ for more information
	Single locks	Point geometry or x,y coordinates										x		Please visit https://a3.geosrbija.rs/ for more information
	Double locks	Point geometry or x,y coordinates										x		Please visit https://a3.geosrbija.rs/ for more information
	Ports, transhipment or storage facilities	Point geometry or x,y coordinates										x		Please visit https://a3.geosrbija.rs/ for more information
Seaports	Location of the Seaport	Point geometry or x,y coordinates		x										
Airports	Location of the Airport	Point geometry or x,y coordinates					x	x	x		x			
Border Crossings	Location of the border crossings	Point geometry or x,y coordinates					x	x	x		x			There are some data but not updated. Please visit https://a3.geosrbija.rs/ for more information
Freight Terminal	Location of the Freight Terminals	Point geometry or x,y coordinates												

Serbia - data availability and formats

Inland Waterways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority													
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	TEN-T Category	Core/ Comprehensive	Ministry of CTIAI		x									
	River		Ministry of CTIAI		x									
	International Commission	yes/no (Involved in International Commission/ Agreement)	Ministry of CTIAI		x									
	Start Node Name		Ministry of CTIAI		x									
	End Node Name		Ministry of CTIAI		x									
	Status	Planned/ Existing/ Upgrade	Ministry of CTIAI		x									
	Data valid from	year	Ministry of CTIAI		x								yearly update	
	Data valid to	year	Ministry of CTIAI		x								yearly update	
Infrastructure Data	CEMT class	Categories of navigable inland waterways - Class (length/beam) I to III IV V a V b VI a VI b VI cVII	Ministry of CTIAI		x								yearly update	
	Width	m	Ministry of CTIAI		x								yearly update	
	Condition	Very Good Good Medium Poor Very Poor	Ministry of CTIAI		x								yearly update	
	Single locks	number	Ministry of CTIAI		x								yearly update	
	Double locks	number	Ministry of CTIAI		x								yearly update	
	Ports, transhipment or storage facilities	number	Ministry of CTIAI		x								yearly update	
	Min Draught	m	Ministry of CTIAI		x								yearly update	
	Min Bridge Height	m	Ministry of CTIAI		x								yearly update	
	Max Vessel Length	m	Ministry of CTIAI		x								yearly update	
	Max Vessel Width	m	Ministry of CTIAI		x								yearly update	
	Operation Speed (km/h)	Upstream	Ministry of CTIAI		x								yearly update	
		Downstream	Ministry of CTIAI		x								yearly update	
	Intelligent Transport Systems (ITS)	yes/no	Ministry of CTIAI		x								yearly update	
	Type of ITS	list all ITS installed	Ministry of CTIAI		x								yearly update	
	River Information System (RIS)	in operation (yes/no)	Ministry of CTIAI		x								yearly update	
	Data valid from	year	Ministry of CTIAI		x								yearly update	
	Data valid to	year	Ministry of CTIAI		x								yearly update	
TEN-T Compliance	Category	yes/no (CEMT Class IV (as per the new classification of IWW established by the European Conference of Ministers of Transport - ECMT)	Ministry of CTIAI		x								yearly update	
	Draught	yes/no (At least 2.5m)	Ministry of CTIAI		x								yearly update	
	Bridge Height	yes/no (At least 5.25m)	Ministry of CTIAI		x								yearly update	
	Good Navigation Status Maintenance	yes/no (Rivers, canals and lakes are maintained so as to preserve good navigation status, with full observance of the applicable environmental law)	Ministry of CTIAI		x								yearly update	
	RIS Deployment	yes/no (as per Directive 2005/44/EC)	Ministry of CTIAI		x								yearly update	
	Data valid from	year	Ministry of CTIAI		x								yearly update	
	Data valid to	year	Ministry of CTIAI		x								yearly update	
Operations Data	Traffic	total vessels per year (both upstream/ downstream)	Ministry of CTIAI		x								monthly/quaterly/yearly	
	Passenger traffic	passengers per year	Ministry of CTIAI		x								monthly/quaterly/yearly	
	Freight traffic	tons per year	Ministry of CTIAI		x								monthly/quaterly/yearly	
	Dangerous Goods tons turnover	tons per year	Ministry of CTIAI		x								monthly/quaterly/yearly	
	TEUs	TEU containers per year	Ministry of CTIAI		x								monthly/quaterly/yearly	
	Unitised	% in standard loading units	Ministry of CTIAI		x								monthly/quaterly/yearly	
	Non Unitised	% of bulk and general traffic	Ministry of CTIAI		x								monthly/quaterly/yearly	
	Data valid for	year	Ministry of CTIAI		x								monthly/quaterly/yearly	
Regular Maintenance	Maintenance cost - Total	Euros per year	Ministry of CTIAI		x								Depending on the maintenance contract	
	Maintenance cost - Landside Infrastructure	Euros per year (Works on land infrastructure and facilities)	Ministry of CTIAI											Data is availble but for a different categories - divided on infrastructure and suprastructure (facilities)
	Maintenance cost - Riverside Infrastructure	Euros per year (Works conducted to ensure the right navigability on the waterway, e.g. dredging, riverbed surveying...)	Ministry of CTIAI									x		
	Source of finance		Ministry of CTIAI		x									
	Data valid for	year	Ministry of CTIAI		x									
Heavy Maintenance	Requiring heavy maintenance	length of section (km)	Ministry of CTIAI		x								Depending on the maintenance contract	
	Requiring rehabilitation	length of section (km)	Ministry of CTIAI		x								Depending on the maintenance contract	
	Data valid for	year	Ministry of CTIAI		x								Depending on the maintenance contract	
Upgrading	Requiring upgrade to increase capacity	length of section (km)	Ministry of CTIAI		x									
	Data valid for	year	Ministry of CTIAI		x									

Serbia - data availability and formats

Inland Waterways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x										Maybe Ministry of Environment
	CO2 emissions			x										Maybe Ministry of Environment
	NOx emissions			x										Maybe Ministry of Environment
	SO2 emission evolution			x										Maybe Ministry of Environment
	Non-methane hydrocarbons			x										Maybe Ministry of Environment
	Particulate matter (ppm)			x										Maybe Ministry of Environment
	Climate change resilience	number of flooding incidents		x										Maybe Ministry of Environment
		number of closures due to adverse weather conditions		x										Maybe Ministry of Environment
		number of embankment failures		x										Maybe Ministry of Environment
	Data valid for	year		x										Maybe Ministry of Environment
Geospatial data	Location of the IWW	Line geometry	Ministry of CT&I					x					yearly update	
	Single locks	Point geometry or x,y coordinates	Ministry of CT&I					x					yearly update	
	Double locks	Point geometry or x,y coordinates	Ministry of CT&I					x					yearly update	
	Ports, transhipment or storage facilities	Point geometry or x,y coordinates	Ministry of CT&I					x					yearly update	
	Data valid for	year	Ministry of CT&I					x					yearly update	

Serbia - data availability and formats

Inland Waterways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority												Depending on the project
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code												
	TEN-T Category	Core/ Comprehensive											
	River		Ministry of CT&I		x								
	International Commission	yes/no (Involved in International Commission/ Agreement)	Ministry of CT&I		x								
	Start Node Name	Before project implementation	Ministry of CT&I		x								
		After project implementation	Ministry of CT&I		x								
	End Node Name	Before project implementation	Ministry of CT&I		x								
		After project implementation	Ministry of CT&I		x								
Description of the Project	Project name	Text	Ministry of CT&I		x								
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure	Ministry of CT&I		x								
	Length (if linear)	Km/NA	Ministry of CT&I		x								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)	Ministry of CT&I		x								
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of CT&I		x								
Eligibility for TEN-T Project	CEMT Class IV Compliance	yes/no (As per the new classification of IWW established by the European Conference of Ministers of Transport (ECMT))	Ministry of CT&I		x								
	Draught	yes/no (At least 2.5m)	Ministry of CT&I		x								
	Bridge Height	yes/no (At least 5.25m)	Ministry of CT&I		x								
	RIS Deployment	yes/no (as per Directive 2005/44/EC)	Ministry of CT&I		x								
TEN-T Compliance	CEMT Class IV Compliance	Before project implementation (yes/no)	Ministry of CT&I		x								
		After project implementation (yes/no)	Ministry of CT&I		x								
	Draught	Before project implementation (yes/no)	Ministry of CT&I		x								
		After project implementation (yes/no)	Ministry of CT&I		x								
	Bridge Height	Before project implementation (yes/no)	Ministry of CT&I		x								
		After project implementation (yes/no)	Ministry of CT&I		x								
	RIS Deployment	Before project implementation (yes/no)	Ministry of CT&I		x								
		After project implementation (yes/no)	Ministry of CT&I		x								
Project Status	Implemented	Project completed and put in operation	Ministry of CT&I		x								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.	Ministry of CT&I		x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.	Ministry of CT&I		x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.	Ministry of CT&I		x								
IMPLEMENTED PROJECTS			Ministry of CT&I		x								
Project Timeline	Initial Project Completion Date	On tender issue	Ministry of CT&I		x								
	Actual Project Completion Date		Ministry of CT&I		x								
Project Funding Sources	National Budget	Euros	Ministry of CT&I		x								
	WB	Euros	Ministry of CT&I		x								
	EBRD	Euros	Ministry of CT&I		x								
	EIB	Euros	Ministry of CT&I		x								
	Other IFI	Specify	Ministry of CT&I		x								
		Euros	Ministry of CT&I		x								
	Concessions	Specify	Ministry of CT&I		x								
		Euros	Ministry of CT&I		x								
	EU Fund	Specify	Ministry of CT&I		x								
		Euros	Ministry of CT&I		x								
	Other funding source	Specify	Ministry of CT&I		x								
		Euros	Ministry of CT&I		x								
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)	Ministry of CT&I		x								
	Prepared by		Ministry of CT&I		x								

Serbia - data availability and formats

Inland Waterways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP
	Supervised by		Ministry of CT&I		x								

Serbia - data availability and formats

Inland Waterways - Project Monitoring

Category	Parameter	Details	Source	Hard Copy	Excel	Word	GIS	WMS	WFS	API	Mobile App	Other	Data Collection Frequency - RP
Performance Indicators	Construction period	Forecasted (months)	Ministry of CTI&I		x								
		Actual (months)	Ministry of CTI&I		x								
	CAPEX	Forecasted (Euros)	Ministry of CTI&I		x								
		Actual (Euros)	Ministry of CTI&I		x								
	OPEX	Forecasted (Euros per year)	Ministry of CTI&I		x								
		Actual (Euros per year)	Ministry of CTI&I		x								
	Maintenance cost	Forecasted (Euros per year)	Ministry of CTI&I		x								
		Actual (Euros per year)	Ministry of CTI&I		x								
	Interest During Construction	%	Ministry of CTI&I		x								
	EBITDA (last year)	Euros	Ministry of CTI&I		x								
	Revenue (if fare/toll collected)	Forecasted (Euros per year)	Ministry of CTI&I		x								
		Actual (Euros per year)	Ministry of CTI&I		x								
	Traffic	Traffic - forecasted	Ministry of CTI&I		x								
		Traffic - actual	Ministry of CTI&I		x								
		Passenger traffic - forecasted	Ministry of CTI&I		x								
		Passenger traffic - actual	Ministry of CTI&I		x								
		Freight (tn) - forecasted	Ministry of CTI&I		x								
		Freight (tn) - actual	Ministry of CTI&I		x								
LIVE PROJECTS			Ministry of CTI&I		x								
Project Timeline	Tender Start Date (month/ year)	Initially forecasted	Ministry of CTI&I		x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of CTI&I		x								
		Actual	Ministry of CTI&I		x								
	Design Completion Date (month/ year)	Forecasted (on tender issue)	Ministry of CTI&I		x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of CTI&I		x								
		Actual	Ministry of CTI&I		x								
	Project Completion Date (month/ year)	Forecasted (on tender issue)	Ministry of CTI&I		x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of CTI&I		x								
Project Funding Sources	National Budget	Euros	Ministry of CTI&I		x								
		allocated/ agreement signed (yes/no)	Ministry of CTI&I		x								
	WB	Euros	Ministry of CTI&I		x								
		allocated/ agreement signed (yes/no)	Ministry of CTI&I		x								
	EBRD	Euros	Ministry of CTI&I		x								
		allocated/ agreement signed (yes/no)	Ministry of CTI&I		x								
	EIB	Euros	Ministry of CTI&I		x								
		allocated/ agreement signed (yes/no)	Ministry of CTI&I		x								
	Other IFI	Specify	Ministry of CTI&I		x								
		Euros	Ministry of CTI&I		x								
		allocated/ agreement signed (yes/no)	Ministry of CTI&I		x								
	Concessions	Specify	Ministry of CTI&I		x								
		Euros	Ministry of CTI&I		x								
		allocated/ agreement signed (yes/no)	Ministry of CTI&I		x								
	EU Fund	Specify	Ministry of CTI&I		x								
		Euros	Ministry of CTI&I		x								
		allocated/ agreement signed (yes/no)	Ministry of CTI&I		x								
	Other funding source	Specify	Ministry of CTI&I		x								
		Euros	Ministry of CTI&I		x								
		allocated/ agreement signed (yes/no)	Ministry of CTI&I		x								
Technical Project Status	Pre-Feasibility Study	yes/no	Ministry of CTI&I		x								
	Feasibility Study	yes/no	Ministry of CTI&I		x								
	Concept Design	yes/no	Ministry of CTI&I		x								
	Preliminary Design	yes/no	Ministry of CTI&I		x								
	Detail Design	yes/no	Ministry of CTI&I		x								
	Environmental Impact Assessment	yes/no	Ministry of CTI&I		x								

Serbia - data availability and formats

Inland Waterways - Project Monitoring

Category	Parameter	Details	Source	Hard Copy	Excel	Word	GIS	WMS	WFS	API	Mobile App	Other	Data Collection Frequency - RP
Project Documentation	Feasibility Study	Title	Ministry of CTI&I		x								
		Prepared by	Ministry of CTI&I		x								
		Supervised by	Ministry of CTI&I		x								
	Concept Design	Title	Ministry of CTI&I		x								
		Prepared by	Ministry of CTI&I		x								
		Supervised by	Ministry of CTI&I		x								
	Preliminary Design	Title	Ministry of CTI&I		x								
		Prepared by	Ministry of CTI&I		x								
		Supervised by	Ministry of CTI&I		x								
	Detail Design	Title	Ministry of CTI&I		x								
		Prepared by	Ministry of CTI&I		x								
		Supervised by	Ministry of CTI&I		x								
	Environmental Impact Assessment	Title	Ministry of CTI&I		x								
		Prepared by	Ministry of CTI&I		x								
		Supervised by	Ministry of CTI&I		x								
Social Indicators	Annual Traffic Demand Growth	%	Ministry of CTI&I		x								
	Modal transfer	% (if applicable)	Ministry of CTI&I		x								
	Annual Accident Rate Reduction	% (if applicable)	Ministry of CTI&I		x								
Economic Indicators	EIRR (Economic Internal Rate of Return)	%	Ministry of CTI&I		x								
	NPV (Net Present Value)	Euros	Ministry of CTI&I		x								
	SDR (Social Discount Rate)	%	Ministry of CTI&I		x								
	Project Planning & Design Cost	Euros	Ministry of CTI&I		x								
	Project Construction Cost	Euros	Ministry of CTI&I		x								
	Total Project Cost	Euros	Ministry of CTI&I		x								
Financial Indicators	FIRR (Financial Internal Rate of Return)	%	Ministry of CTI&I		x								
	FNPV (Financial Net Present Value)	Euros	Ministry of CTI&I		x								
	FDR (Financial Discount Rate)	%	Ministry of CTI&I		x								
	WACC (Weighted Average Cost of Capital)	%		x									
	First year of profit	year	Ministry of CTI&I		x								
	DSCR (Debt Service Coverage Ratio)	%		x									
Environmental Indicators	CO2 emissions	+/- %	Ministry of CTI&I		x								
	NOx emissions	+/- %	Ministry of CTI&I		x								
	O2 emission evolution	+/- %	Ministry of CTI&I		x								
	Non-methane hydrocarbons	+/- %		x									
	Particulate matter (ppm)	+/- %		x									
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience	Ministry of CTI&I		x								
	Protected Natural Areas Affected	km2	Ministry of CTI&I		x								
Geospatial data	Location of the IWW	Line geometry	Ministry of CTI&I					x					
	Single locks	Point geometry or x,y coordinates	Ministry of CTI&I					x					
	Double locks	Point geometry or x,y coordinates	Ministry of CTI&I					x					
	Ports, transhipment or storage facilities	Point geometry or x,y coordinates	Ministry of CTI&I					x					

Serbia - data availability and formats

Inland Waterways Ports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Construction, Transport and Infrastructure											
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	TEN-T Category	Core/ Comprehensive	Ministry of CTI		x									
	Node Name		Ministry of CTI		x									
	Ownership Type	Government/ Private/ Mixed	Ministry of CTI		x									
	Owner #1	Name	Ministry of CTI		x									
	Ownership Percentage	%	Ministry of CTI		x									
	Owner #x	Name	Ministry of CTI		x									
	Ownership Percentage	%	Ministry of CTI		x									
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Activity	Freight/ Passenger/ Passenger and freight	Ministry of CTI		x								Update when there is a change	
	Condition	Very Good Good Medium Poor Very Poor	Ministry of CTI		x								Update when there is a change	
	Total area	m2 (All land- and water-area which belongs to the port)	Ministry of CTI		x								Update when there is a change	
	Open storage	m2	Ministry of CTI		x								Update when there is a change	
	Covered storage	m2	Ministry of CTI		x								Update when there is a change	
	Cold storage	m2	Port Governance Agency		x								Update when there is a change	
	Storage of dangerous goods	m2	Port Governance Agency		x								Update when there is a change	
	Handling equipment	Gantry cranes, Mobile cranes, Fork lifters, Reach stackers, Luffing-slewing cranes, etc.	Port Governance Agency		x								Update when there is a change	
	Quay Length	m	Port Governance Agency		x								Update when there is a change	
	Berths	number	Port Governance Agency		x								Update when there is a change	
	Maximum draught (natural or dredged)	m (maximum draught of ship which may enter the port)	Port Governance Agency		x								Update when there is a change	
	Port terminals	ha	Port Governance Agency		x								Update when there is a change	
	Combined terminals	ha	Port Governance Agency		x								Update when there is a change	
	Passenger terminals	m2	Port Governance Agency		x								Update when there is a change	
	Passenger Capacity	passengers per year (port maximum passenger handling capacity - the combined product of ports facilities and associated services)	Port Governance Agency		x								Update when there is a change	
	Container terminal	yes/ no	Port Governance Agency		x								Update when there is a change	
	Freight Capacity	tons per year (port maximum cargo handling capacity - the combined product of ports facilities and associated services)	Port Governance Agency		x								Update when there is a change	
	RoRo facilities	yes/ no	Port Governance Agency		x								Update when there is a change	
	Transhipment facilities for intermodal transport	yes/ no	Port Governance Agency		x								Update when there is a change	
	Rail Connection	yes/no	Port Governance Agency		x								Update when there is a change	
		number of tracks connecting the port with the hinterland network											Update when there is a change	
	Road Connection	yes/no	Port Governance Agency		x								Update when there is a change	
		number of lanes connecting the port with the hinterland network											Update when there is a change	
	Intelligent Transport Systems (ITS)	yes/no	Port Governance Agency		x								Update when there is a change	
	Type of ITS	list all ITS installed	Port Governance Agency		x								Update when there is a change	
	Vessel Traffic Management Information System (VTMIS)	in operation (yes/no)	Port Governance Agency		x								Update when there is a change	
	Data valid from	year											Update when there is a change	
	Data valid to	year											Update when there is a change	
TEN-T Compliance	Rail Connection	yes/no	Ministry of CTI		x								Update when there is a change	
	Road Connection	yes/no	Ministry of CTI		x								Update when there is a change	
	Clean fuels availability	yes/no (Only applicable for the Core Network)	Ministry of CTI		x								Update when there is a change	
	Terminal availability	yes/no (At least one terminal open to all operators in a non-discriminatory way and shall apply transparent charges)	Ministry of CTI		x								Update when there is a change	
	RIS Deployment	yes/no (as per Directive 2005/44/EC)	Ministry of CTI		x								Update when there is a change	
	Data valid from	year											Update when there is a change	
	Data valid to	year											Update when there is a change	

Serbia - data availability and formats

Inland Waterways Ports - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Operations Data	Port traffic	vessels per year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	
	Passenger traffic	passengers per year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	
	Freight traffic	tons per year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	
	Dangerous Goods ton turnover	kT/year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	Pertoleum products and artificial fues
	Total turnover	kT/year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	
	Tons loaded	kT/year	Port Governance Agency	x									Constant - weekly/monthly/quaterly/yearly	Data not availble - thinking of including this kind of measurements in the near future
	Tons unloaded	kT/year	Port Governance Agency	x									Constant - weekly/monthly/quaterly/yearly	Data not availble - thinking of including this kind of measurements in the near future
	Oil tons	kT/year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	Availble in singular unit
	Liquid bulk tons	kT/year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	Availble in singular unit
	Dry bulk tons	kT/year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	Availble in singular unit
	General bulk tons	kT/year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	Availble in singular unit
	TEU tons	kT/year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	Availble in singular unit
	TEUs	TEU containers per year			x								Constant - weekly/monthly/quaterly/yearly	
	RoRo	kT/year	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	
	RoRos	number of vehicles	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	
	Storage capacity used	% of capacity	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	
	Transhipment capacity used	% of capacity	Port Governance Agency		x								Constant - weekly/monthly/quaterly/yearly	
	Passenger capacity used	% of capacity	Port Governance Agency		x							x	Constant - weekly/monthly/quaterly/yearly	
	Data valid for	year											Constant - weekly/monthly/quaterly/yearly	
Regular Maintenance	Maintenance cost - Total	Euros per year	Port Governance Agency		x								Depending on the contract	
	Maintenance cost - Landside Infrastructure	Euros per year (Works on land infrastructure and facilities)	Port Governance Agency	x									Depending on the contract	Data is avaible but for a different categories - devided on infrastructure and superstructure (facilities)
	Maintenance cost - Riverside Infrastructure	Euros per year (Works conducted to ensure the right navigability in the IWW port)	Port Governance Agency	x									Depending on the contract	
	Source of finance		Port Governance Agency		x								Depending on the contract	
	Data valid for	year											Depending on the contract	
Upgrading	Requiring upgrade to increase capacity	Passenger Capacity	Ministry of CTI		x									
		Freight Capacity												
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x										Maybe Ministry of Environment
	CO2 emissions			x										Maybe Ministry of Environment
	NOx emissions			x										Maybe Ministry of Environment
	SO2 emission evolution			x										Maybe Ministry of Environment
	Non-methane hydrocarbons			x										Maybe Ministry of Environment
	Particulate matter (ppm)			x										Maybe Ministry of Environment
	Climate change resilience	number of flooding incidents		x										Maybe Ministry of Environment
		number of closures due to adverse weather conditions												Maybe Ministry of Environment
		number of embankment failures												Maybe Ministry of Environment
	Data valid for	year												
Geospatial data	Location of the IWW port	Point geometry or x,y coordinates	Ministry of CTI				x							
	Data valid for	year												

Serbia - data availability and formats

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Source	Info. N/A	Excel	Word	GIS	WMS	WFS	API	Meta-data	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Construction, Transport and Infrastructure										Depending on the project
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code		Ministry of CT&I		x								
	TEN-T Category	Core/ Comprehensive	Ministry of CT&I		x								
	Node Name		Ministry of CT&I		x								
Description of the Project	Project name	Text	Ministry of CT&I		x								
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure	Ministry of CT&I		x								
	Length (if linear)	Km/NA	Ministry of CT&I		x								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)	Ministry of CT&I		x								
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of CT&I		x								
Eligibility for TEN-T Project	Rail connection	yes/no	Ministry of CT&I		x								
	CEMT connection	yes/no	Ministry of CT&I		x								
	Clean fuels availability	yes/no (Only applicable for the Core Network)	Ministry of CT&I		x								
	Terminal Availability	yes/no (At least one terminal open to all operators in a non-discriminatory way and shall apply transparent charges.)	Ministry of CT&I		x								
	RIS Deployment	yes/no (as per Directive 2005/44/EC)	Ministry of CT&I		x								
TEN-T Compliance	Rail connection	Before project implementation (yes/no)	Ministry of CT&I										
		After project implementation (yes/no)	Ministry of CT&I		x								
	CEMT connection	Before project implementation (yes/no)	Ministry of CT&I		x								
		After project implementation (yes/no)	Ministry of CT&I		x								
	Clean fuels availability	Before project implementation (yes/no)	Ministry of CT&I		x								
		After project implementation (yes/no)	Ministry of CT&I		x								
	Terminal Availability	Before project implementation (yes/no)	Ministry of CT&I		x								
		After project implementation (yes/no)	Ministry of CT&I		x								
	RIS Deployment	Before project implementation (yes/no)	Ministry of CT&I		x								
		After project implementation (yes/no)	Ministry of CT&I		x								
Project Status	Implemented	Project completed and put in operation	Ministry of CT&I		x								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.	Ministry of CT&I		x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.	Ministry of CT&I		x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.	Ministry of CT&I		x								
IMPLEMENTED PROJECTS			Ministry of CT&I										
Project Timeline	Initial Project Completion Date	On tender issue	Ministry of CT&I		x								
	Actual Project Completion Date		Ministry of CT&I		x								
Project Funding Sources	National Budget	Euros	Ministry of CT&I		x								
	WB	Euros	Ministry of CT&I		x								
	EBRD	Euros	Ministry of CT&I		x								
	EIB	Euros	Ministry of CT&I		x								
	Other IFI	Specify	Ministry of CT&I		x								
		Euros	Ministry of CT&I		x								
	Concessions	Specify	Ministry of CT&I		x								
		Euros	Ministry of CT&I		x								
	EU Fund	Specify	Ministry of CT&I		x								
		Euros	Ministry of CT&I		x								

Serbia - data availability and formats

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Source	Info. N/A	Excel	Word	GIS	WMS	WFS	API	Meta-data	Other	Data Collection Frequency - RP
	Other funding source	Specify	Ministry of CT&I		x								
		Euros	Ministry of CT&I		x								
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)	Ministry of CT&I		x								
	Prepared by		Ministry of CT&I		x								
	Supervised by		Ministry of CT&I		x								

Serbia - data availability and formats

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Relational data	Other	Data Collection Frequency - RF
Performance Indicators	Construction period	Forecasted (months)	Ministry of CTAI		x								
		Actual (months)	Ministry of CTAI		x								
	CAPEX	Forecasted (Euros)	Ministry of CTAI		x								
		Actual (Euros)	Ministry of CTAI		x								
	OPEX	Forecasted (Euros per year)	Ministry of CTAI		x								
		Actual (Euros per year)	Ministry of CTAI		x								
	Maintenance cost	Forecasted (Euros per year)	Ministry of CTAI		x								
		Actual (Euros per year)	Ministry of CTAI		x								
	Interest During Construction	%		x									
	EBITDA (last year)	Euros	Ministry of CTAI		x								
	Revenue (if fare/toll collected)	Forecasted (Euros per year)	Ministry of CTAI		x								
		Actual (Euros per year)	Ministry of CTAI		x								
	Traffic	Port traffic - forecasted	Ministry of CTAI		x								
		Port traffic - actual	Ministry of CTAI		x								
		Passenger traffic - forecasted	Ministry of CTAI		x								
		Passenger traffic - actual	Ministry of CTAI		x								
		Freight (tn) - forecasted	Ministry of CTAI		x								
		Freight (tn) - actual	Ministry of CTAI		x								
LIVE PROJECTS			Ministry of CTAI										
Project Timeline	Tender Start Date (month/ year)	Initially forecasted	Ministry of CTAI		x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of CTAI		x								
		Actual	Ministry of CTAI		x								
	Design Completion Date (month/ year)	Forecasted (on tender issue)	Ministry of CTAI		x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of CTAI		x								
		Actual	Ministry of CTAI		x								
	Project Completion Date (month/ year)	Forecasted (on tender issue)	Ministry of CTAI		x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet	Ministry of CTAI		x								
Project Funding Sources	National Budget	Euros	Ministry of CTAI		x								
		allocated/ agreement signed (yes/no)	Ministry of CTAI		x								
	WB	Euros	Ministry of CTAI		x								
		allocated/ agreement signed (yes/no)	Ministry of CTAI		x								
	EBRD	Euros	Ministry of CTAI		x								
		allocated/ agreement signed (yes/no)	Ministry of CTAI		x								
	EIB	Euros	Ministry of CTAI		x								
		allocated/ agreement signed (yes/no)	Ministry of CTAI		x								
	Other IFI	Specify	Ministry of CTAI		x								
		Euros	Ministry of CTAI		x								
		allocated/ agreement signed (yes/no)	Ministry of CTAI		x								
	Concessions	Specify	Ministry of CTAI		x								
		Euros	Ministry of CTAI		x								
		allocated/ agreement signed (yes/no)	Ministry of CTAI		x								
	EU Fund	Specify	Ministry of CTAI		x								
		Euros	Ministry of CTAI		x								
		allocated/ agreement signed (yes/no)	Ministry of CTAI		x								
	Other funding source	Specify	Ministry of CTAI		x								
		Euros	Ministry of CTAI		x								
		allocated/ agreement signed (yes/no)	Ministry of CTAI		x								
Technical Project Status	Pre-Feasibility Study	yes/no	Ministry of CTAI		x								
	Feasibility Study	yes/no	Ministry of CTAI		x								
	Concept Design	yes/no	Ministry of CTAI		x								
	Preliminary Design	yes/no	Ministry of CTAI		x								
	Detail Design	yes/no	Ministry of CTAI		x								
	Environmental Impact Assessment	yes/no	Ministry of CTAI		x								

Serbia - data availability and formats

Inland Waterways Ports - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Relational data	Other	Data Collection Frequency - RF
Project Documentation	Feasibility Study	Title	Ministry of CTAI		x								
		Prepared by	Ministry of CTAI		x								
		Supervised by	Ministry of CTAI		x								
	Concept Design	Title	Ministry of CTAI		x								
		Prepared by	Ministry of CTAI		x								
		Supervised by	Ministry of CTAI		x								
	Preliminary Design	Title	Ministry of CTAI		x								
		Prepared by	Ministry of CTAI		x								
		Supervised by	Ministry of CTAI		x								
	Detail Design	Title	Ministry of CTAI		x								
		Prepared by	Ministry of CTAI		x								
		Supervised by	Ministry of CTAI		x								
	Environmental Impact Assessment	Title	Ministry of CTAI		x								
		Prepared by	Ministry of CTAI		x								
		Supervised by	Ministry of CTAI		x								
Social Indicators	Annual Traffic Demand Growth	%	Ministry of CTAI		x								
	Modal transfer	% (if applicable)	Ministry of CTAI		x								
	Annual Accident Rate Reduction	% (if applicable)		x									
Economic Indicators	EIRR (Economic Internal Rate of Return)	%	Ministry of CTAI		x								
	NPV (Net Present Value)	Euros	Ministry of CTAI		x								
	SDR (Social Discount Rate)	%	Ministry of CTAI		x								
	Project Planning & Design Cost	Euros	Ministry of CTAI		x								
	Project Construction Cost	Euros	Ministry of CTAI		x								
	Total Project Cost	Euros	Ministry of CTAI		x								
Financial Indicators	FIRR (Financial Internal Rate of Return)	%	Ministry of CTAI		x								
	FNPV (Financial Net Present Value)	Euros	Ministry of CTAI		x								
	FDR (Financial Discount Rate)	%	Ministry of CTAI		x								
	WACC (Weighted Average Cost of Capital)	%	Ministry of CTAI		x								
	First year of profit	year	Ministry of CTAI		x								
	DSCR (Debt Service Coverage Ratio)	%		x									
Environmental Indicators	CO2 emissions	+/- %	Ministry of CTAI		x								
	NOx emissions	+/- %	Ministry of CTAI		x								
	O2 emission evolution	+/- %	Ministry of CTAI		x								
	Non-methane hydrocarbons	+/- %		x									
	Particulate matter (ppm)	+/- %		x									
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience	Ministry of CTAI		x								
	Protected Natural Areas Affected	km2	Ministry of CTAI		x								
Geospatial data	Location of the IWW Port	Point geometry or x,y coordinates	Ministry of CTAI				x						

Serbia - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	GIS MS	Excel	Word	GIS	Mobile	Web	API	Mobile data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority												Annually	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code		Serbian Railways		x	x								
	TEN-T Category	Core/ Comprehensive	Serbian Railways		x	x								
	Corridor/ Route		Serbian Railways		x	x								
	International Route ID		Serbian Railways		x	x								
	National Route ID		Serbian Railways		x	x								
	Start Node Name		Serbian Railways		x	x								
	End Node Name		Serbian Railways		x	x								
	Start km	Direction A	Serbian Railways		x	x								
		Direction B	Serbian Railways		x	x								
	End km	Direction A	Serbian Railways		x	x								
		Direction B	Serbian Railways		x	x								
	Status	Planned/ Existing/ Upgrade	Serbian Railways		x	x								
	Data valid from	year			x	x								
	Data valid to	year												
Infrastructure Data	Capacity	trains/ day	Serbian Railways		v	v								
	Track gauge	750 / 1000 / 1435 / 1520 / 1524 / 1600 / 1602 / 1668	Serbian Railways		x	x								
	Load gauge	A GAUGE: Total height 3.85 m above t - he rail and 1.28 m on either side of the track axle B GAUGE: Total height 4.08 m above the rail and 1.28 m on either side of the track axle B+ GAUGE: Total height is 4.18 m above the rail and 1.36 m on either side of the track axle C GAUGE: Total height 4.65 m above the rail and 1.45 m on either side of the track axle	Serbian Railways			x	x							
	Condition of track (Operational/ Design Speed)	Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)	Serbian Railways											Not availble in this format but it is possible to extract
	Number of tracks	Total (most relevant figures, e.g. If a single track railway of 10km has 2km stretch of two tracks, the relevant total is one track)	Serbian Railways			x	x							
	Traction	Diesel	Serbian Railways			x	x							
		Electrified	Serbian Railways			x	x							
	Rail voltage	25 000 Volts, 50Hz 15 000 Volts, 16 2/3 Hz 3 000 Volts, DC 1 500 Volts, DC 750 Volts DC 660 Volts DC 630 Volts DC	Serbian Railways			x	x							
	Length - Total (km)		Serbian Railways			x	x							
	Length - Open Track (km)		Serbian Railways			x	x							
	Length - Tunnels (km)		Serbian Railways			x	x							
	Length - Bridges over 12m length (km)		Serbian Railways			x	x							
	Tunnels	number	Serbian Railways			x	x							
	Level-Crossings	number	Serbian Railways			x	x							
	Max Design Speed	km per hour	Serbian Railways			x	x							
	Max Operating Speed	km per hour	Serbian Railways			x	x							
	Max Longitudinal Gradient (m per km)	Direction A	Serbian Railways			x	x							
		Direction B	Serbian Railways			x	x							
	Min radius	meters	Serbian Railways			x	x							
	Maximum train length	meters	Serbian Railways			x	x							
	Max Axle load	kN	Serbian Railways			x	x							
	Signalling Standard		Serbian Railways			x	x							
	Traffic Management		Serbian Railways			x	x							
	ERTMS in operation	yes/no	Serbian Railways			x	x							
	ERTMS level	1 - is designed as an add-on to or overlays a conventional line already equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard unit using GSM-R. 3 - still in its conceptual phase, allows for the introduction of a "moving block" technology.	Serbian Railways	x										
	Control & Command System	Specify which system is used to ensure safety and to command and control movements of trains authorised to travel on the network	Serbian Railways			x	x							
	Data valid from	year												
	Data valid to	year												

Serbia - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
TEN-T Compliance	Electrification	yes/no (Not applicable for isolated networks. Applies to line trucks and sidings, to the extent necessary for electric train operation)	Serbian Railways		x	x								
	Railway Tunnels Compliance	yes/no as per Directive 2014/1303/EC as amended by 2016/912/EC and 2019/776/EC	Serbian Railways		x	x								
	Freight Line Speed	yes/no (At least 100km (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))	Serbian Railways		x	x								
	Freight Line Axle Load	yes/no (At least 22.5t (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))	Serbian Railways		x	x								
	Freight Line Train Length	yes/no (At least 750m (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))	Serbian Railways		x	x								
	Track Gauge 1435mm	yes/no (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network the track gauge of which is different and detached from the TEN-T network)	Serbian Railways		x	x								
	ERTMS Deployment	yes/no (European Train Control System (ETCS) - Not applicable for isolated networks)	Serbian Railways		x	x								
		yes/no (Global System for Mobile communications for Railways (GSM-R) - Not applicable for isolated networks)	Serbian Railways		x	x								
	Data valid from	year												
	Data valid to	year												
Operations Data	Passenger Trains	number per 24 hours	Directorate of Railways		x								Yearly	
	Freight Trains	number per 24 hours	Directorate of Railways		x								Yearly	
	Dangerous Goods Freight Trains	number per 24 hours	Directorate of Railways										Yearly	
	Capacity used	% of capacity	Directorate of Railways		x								Yearly	
	Passenger traffic	number per year	Directorate of Railways		x								Yearly	
		passenger km per year	Directorate of Railways		x								Yearly	
	Freight traffic	tons per year	Directorate of Railways		x								Yearly	
		tkm per year	Directorate of Railways		x								Yearly	
	TEUs	TEU containers per year	Directorate of Railways		x								Yearly	
	Unitised	% in standard loading units	Directorate of Railways		x								Yearly	
	Non Unitised	% of bulk and general traffic	Directorate of Railways		x								Yearly	
	National traffic	% of total traffic	Directorate of Railways		x								Yearly	
	Average travel time passenger (incl. stops)	long distance trains only	Serbian Railways		x	x							Yearly	
	Average travel time freight (incl. stops)	long distance trains only	Serbian Railways		x	x							Yearly	
	Data valid for	year											Yearly, do 30 juna za prethodnu godinu	
Safety	Number of Incidents	absolute number (as per Directive 2016/798/EU - Railway Safety)	Serbian Railways		x	x								
	Number of Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)	Serbian Railways		x	x								
	Number of Significant Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety and ERA CSI Implementation Guidance)	Serbian Railways		x	x								
	Number of Serious Accidents	absolute number (as per Directive 2016/798/EU - Railway Safety)	Serbian Railways		x	x								
	Serious Accidents - Number of Serious Injuries	absolute number	Serbian Railways		x	x								
	Serious Accidents - Number of Fatalities	absolute number	Serbian Railways		x	x								
	Serious Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)	Serbian Railways		x	x								
	Serious Accidents - Amount of Material Damage	EUR per year	Serbian Railways		x	x								
	Serious Accidents - Disruption of traffic	hours per year	Serbian Railways		x	x								
	Serious Accidents - Indirect damages related to delays	EUR per year	Serbian Railways		x	x								
	Significant Accidents - Number of Significant Injuries	absolute number	Serbian Railways		x	x								
	Significant Accidents - Number of Fatalities	absolute number	Serbian Railways		x	x								
	Significant Accidents - Number per place of accident	absolute number (open rail, level crossings, station area)	Serbian Railways		x	x								
	Significant Accidents - Amount of Material Damage	EUR per year	Serbian Railways		x	x								
	Significant Accidents - Disruption of traffic	hours per year	Serbian Railways		x	x								
	Significant Accidents - Indirect damages related to delays	EUR per year	Serbian Railways		x	x								
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per year per km	Serbian Railways		x	x								
	Maintenance cost - Total	Euros	Serbian Railways		x	x								
	Maintenance cost - Infrastructure	Euros per year (rail track, switches and crossings, tunnels, bridges, level crossings, etc.)	Serbian Railways		x	x								
	Maintenance cost - Signalling and telecom system	Euros per year (Maintenance of rail station signalling, automatic block system, automatic and mechanical level crossings, maintenance of railway telecommunication cable, self supporting telecommunications cable, optical cable, VHF/UHF devices, etc.)	Serbian Railways		x	x								
	Maintenance cost - Electrification system	Euros per year (Maintenance of catenaries, electric railway substations, overhead lines, etc.)	Serbian Railways		x	x								
	Source of finance		Serbian Railways		x	x								
	Data valid for	year												
Heavy Maintenance	Requiring heavy maintenance	length of section (km)	Serbian Railways		x	x								
	Requiring rehabilitation	length of section (km)	Serbian Railways		x	x								
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity	length of section (km)		x										
	Requiring upgrade (additional track/ new line)	length of section (km)		x										
	Data valid for	year												
	Air Pollution	GHG emissions (tons per year for each GHG)		x										
	CO2 emissions			x										
	NOx emissions			x										
	SO2 emission evolution			x										

Serbia - data availability and formats

Railways - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Environmental Data	Non-methane hydrocarbons			x										
	Particulate matter (ppm)			x										
	Noise	Noise levels along the section		x										
	Climate change resilience	number of flooding incidents	Ministry of CTI&I		x	x								
		number of closures due to adverse weather conditions	Ministry of CTI&I		x	x								
		number of embankment failures	Ministry of CTI&I		x	x								
	Data valid for	year												
Geospatial data	Location of Railway Line	Line geometry	Serbian Railways				x							
	Location of tunnels	Line geometry or Point geometry or x,y coordinates	Serbian Railways				x							
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates		x										
	Location of Stations	Line geometry or Point geometry or x,y coordinates		x										
	Location of level crossings	Point geometry or x,y coordinates		x										
	Location of serious accidents	Point geometry or x,y coordinates		x										
	Data valid for	year												

Serbia - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Ministry of Construction, Transport and Infrastructure										On demand	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	TEN-T Category	Core/ Comprehensive				x								
	Corridor/ Route	Before project implementation				x								
		After project implementation				x								
	International Route ID	Before project implementation				x								
		After project implementation				x								
	National Route ID	Before project implementation				x								
		After project implementation				x								
	Start Node Name	Before project implementation												
		After project implementation				x								
	End Node Name	Before project implementation												
		After project implementation			x	x								
	Start km	Direction A - Before project implementation			x	x								
		Direction A - After project implementation			x	x								
		Direction B - Before project implementation			x	x								
		Direction B - After project implementation			x	x								
	End km	Direction A - Before project implementation			x	x								
		Direction A - After project implementation			x	x								
		Direction B - Before project implementation			x	x								
		Direction B - After project implementation			x	x								
Description of the Project	Project name	Text			x	x								
	Type of foreseen intervention	New infrastructure, Reconstruction/rehabilitation, Maintenance, Horizontal/policy measure			x	x								
	Length (if linear)	Km/NA			x	x								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)		x										Availble in case if the Ministry is part of the project implementation
	Estimated implementation deadline	Month/Year. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet		x										
Eligibility for TEN-T Project	Electrification	yes/no			x	x								
	Line speed 100 km/h (freight)	yes/no												
	Axle load 22,5 t	yes/no			x	x								
	Track gauge	yes/no												
	Train length 740 m	yes/no			x	x								
	ERTMS Deployment (ETCS)	yes/no												
	ERTMS Deployment (GSM-R)	yes/no			x	x								
TEN-T Compliance	Electrification	Before project implementation (yes/no)		x										
		After project implementation (yes/no)			x	x								
	Line speed 100 km/h (freight)	Before project implementation (yes/no)		x										
		After project implementation (yes/no)			x	x								
	Axle load 22,5 t	Before project implementation (yes/no)		x										
		After project implementation (yes/no)			x	x								
	Track gauge	Before project implementation (yes/no)		x										
		After project implementation (yes/no)			x	x								
	Train length 740 m	Before project implementation (yes/no)			x	x								
		After project implementation (yes/no)		x										
	ERTMS Deployment (ETCS)	Before project implementation (yes/no)		x										
		After project implementation (yes/no)		x										
	ERTMS Deployment (GSM-R)	Before project implementation (yes/no)			x	x								
		After project implementation (yes/no)			x	x								
Project Status	Implemented	Project completed and put in operation												
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			x	x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			x	x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			x	x								

Serbia - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Image	MPP	API	Mobile data	Other	Data Collection Frequency - RP	Comments
IMPLEMENTED PROJECTS														
Project Timeline	Initial Project Completion Date	On tender issue			x	x								
	Actual Project Completion Date				x	x								
Project Funding Sources	National Budget	Euros			x	x								
	WB	Euros			x	x								
	EBRD	Euros			x	x								
	EIB	Euros			x	x								
	Other IFI	Specify			x	x								
		Euros												
	Concessions	Specify			x	x								
		Euros												
	EU Fund	Specify			x	x								
		Euros												
	Other funding source	Specify			x	x								
		Euros												
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			x	x								
	Prepared by				x	x								
	Supervised by				x	x								
Performance Indicators	Construction period	Forecasted (months)			x	x								
		Actual (months)			x	x								
	CAPEX	Forecasted (Euros)		x										In case if the Ministry is incuded in the project the data is availble in the documets (such as FS) and it could take more time to extract them from the document
		Actual (Euros)		x										
	OPEX	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Maintenance cost	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Interest During Construction	%		x										
	EBITDA (last year)	Euros		x										
	Revenue (if fare/toll collected)	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Traffic	Train traffic - forecasted		x										
		Train traffic - actual		x										
		Passenger traffic - forecasted		x										
		Passenger traffic - actual		x										
		Freight (tn) - forecasted		x										
		Freight (tn) - actual		x										
LIVE PROJECTS				x										
Project Timeline	Tender Start Date (month/ year)	Initially forecasted		x										
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet		x										
		Actual		x										
	Design Completion Date (month/ year)	Forecasted (on tender issue)		x										
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet		x										
		Actual		x										
	Project Completion Date (month/ year)	Forecasted (on tender issue)		x										
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet		x										
Project Funding Sources	National Budget	Euros			x	x								
		allocated/ agreement signed (yes/no)												
	WB	Euros			x	x								
		allocated/ agreement signed (yes/no)												
	EBRD	Euros			x	x								
		allocated/ agreement signed (yes/no)												
	EIB	Euros			x	x								
		allocated/ agreement signed (yes/no)												
	Other IFI	Specify			x	x								
		Euros												
		allocated/ agreement signed (yes/no)												
	Concessions	Specify			x	x								
		Euros												
		allocated/ agreement signed (yes/no)												
	EU Fund	Specify			x	x								
		Euros												
		allocated/ agreement signed (yes/no)												
	Other funding source	Specify			x	x								
		Euros												
		allocated/ agreement signed (yes/no)												
Technical Project Status	Pre-Feasibility Study	yes/no			x	x								
	Feasibility Study	yes/no			x	x								
	Concept Design	yes/no			x	x								
	Preliminary Design	yes/no			x	x								
	Detail Design	yes/no			x	x								
	Environmental Impact Assessment	yes/no			x	x								

Serbia - data availability and formats

Railways - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Image	MPP	API	Mobile data	Other	Data Collection Frequency - RP	Comments
Project Documentation	Feasibility Study	Title			x	x								
		Prepared by												
		Supervised by												
	Concept Design	Title			x	x								
		Prepared by												
		Supervised by												
	Preliminary Design	Title			x	x								
		Prepared by												
		Supervised by												
	Detail Design	Title			x	x								
		Prepared by												
		Supervised by												
	Environmental Impact Assessment	Title			x	x								
		Prepared by												
		Supervised by												
Social Indicators	Annual Traffic Demand Growth	%		x										In case if the Ministry is incuded in the project the data is availble in the documets (such as FS) and it could take more time to extract them from the document
	Modal transfer	% (if applicable)		x										
	Annual Accident Rate Reduction	% (if applicable)		x										
Economic Indicators	EIRR (Economic Internal Rate of Return)	%		x										
	NPV (Net Present Value)	Euros		x										
	SDR (Social Discount Rate)	%		x										
	Project Planning & Design Cost	Euros			x	x								
	Project Construction Cost	Euros			x	x								
	Total Project Cost	Euros			x	x								
Financial Indicators	FIRR (Financial Internal Rate of Return)	%		x										In case if the Ministry is incuded in the project the data is availble in the documets (such as FS) and it could take more time to extract them from the document
	FNPV (Financial Net Present Value)	Euros		x										
	FDR (Financial Discount Rate)	%		x										
	WACC (Weighted Average Cost of Capital)	%		x										
	First year of profit	year		x										
	DSCR (Debt Service Coverage Ratio)	%		x										
Environmental Indicators	CO2 emissions	+/- %		x		x								Depending on project
	NOx emissions	+/- %		x		x								Depending on project
	SO2 emission evolution	+/- %		x		x								Depending on project
	Non-methane hydrocarbons	+/- %		x		x								Depending on project
	Particulate matter (ppm)	+/- %		x		x								Depending on project
	Noise levels along the section	+/- %		x		x								Depending on project
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience of the network		x		x								Depending on project
	Protected Natural Areas Affected	km2		x		x								Depending on project
Geospatial data	Location of Railway Line	Line geometry	Infrastructure	x										In case if the Ministry is incuded in the project the data is availble in the documets (like(s) project) and it could take more time to extract them from the document
	Location of tunnels	Line geometry or Point geometry or x,y coordinates	Infrastructure	x										
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates	Infrastructure	x										
	Location of Stations	Line geometry or Point geometry or x,y coordinates	Infrastructure	x										
	Location of level crossings	Point geometry or x,y coordinates	Infrastructure	x										

Serbia - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Hard Copy	Excel	Word	GIS	Vector	WMS	API	Web App	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Public Enterprise Roads of Serbia										Annually	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code				x		x	x						
	TEN-T Category	Core/ Comprehensive			x		x	x						
	Corridor/ Route				x		x	x						
	International Route ID				x		x	x						
	National Route ID				x		x	x						
	Start Node Name				x		x	x						
	End Node Name				x		x	x						
	Start km	Direction A			x		x	x						
		Direction B			x		x	x						
	End km	Direction A			x		x	x						
		Direction B			x		x	x						
	Status	Planned/ Existing/ Upgrade			x		x	x						
	Data valid from	year												
	Data valid to	year												
Infrastructure Data	Category	Motorways/ Dual Carriageways/ Single Carriageways			x		x	x						
	Pavement Condition	1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing Course (NWC) (IRI [2.84- 5.09]) 3b. Medium PRH, describes a road which needs Pavement Rehabilitation			x		x	x						
	Lanes	Direction A			x		x	x						
		Direction B			x		x	x						
	Length - Total (km)	Direction A			x		x	x						
		Direction B			x		x	x						
	Length - Open Road (km)	Direction A			x		x	x						
		Direction B			x		x	x						
	Length - Tunnels (km)	Direction A			x		x	x						
		Direction B			x		x	x						
	Length - Bridges over 12m length (km)	Direction A			x		x	x						
		Direction B			x		x	x						
	Tunnels	Direction A (absolute number)			x		x	x						
		Direction B (absolute number)			x		x	x						
	Parking areas	Direction A (absolute number)			x		x	x						
		Direction B (absolute number)			x		x	x						
	Fuel Stations	Direction A (absolute number)			x		x	x						
		Direction B (absolute number)			x		x	x						
		Type of fuels (Diesel, Gas, CNG, LNG, Hydrogen, Charging Point)			x		x	x						
	Design Speed	km per hour		x										
	Speed limit	km per hour			x		x	x						
	Operating Speed	km per hour		x										Only position of signs
	Max Longitudinal Gradient (%)	Direction A			x		x	x						
		Direction B			x		x	x						
	Max Permitted Weight	per vehicle (tons)		x										
		axle load (kN)		x										
	Capacity	minimum lane capacity per hour (PCUs) for both directions		x										
	Tolled	yes/ no			x		x	x						
	Type of Tolls	per km/ per day		x										Electronic toll collection
	Charging Method	stations/ free flow/ vignette/ GNSS			x		x	x						
	Number of Toll Station Lanes	manned/ electronic			x	x								
	Intelligent Transport Systems (ITS)	yes/no			x		x	x						
	Type of ITS	list all ITS installed			x		x							
	Operation Supervised by Control Centre	yes/ no			x		x	x						
	Data valid from	year												
	Data valid to	year												
TEN-T Compliance	TEN-T Requirements Compliant	yes/no as per art. 17.3 (a) and (b) of Regulation 1315/2013		x										
	Alternative Fuels Availability	yes/no as per Directive no. 2014/94/EU			x									Directive is not implemented. On Corridor 10 exist refuelling stations on gas stations but there is no possibility for Gov to charge the use
	ITS Compliance	yes/no as per Directive 2010/40/EU		x										
	Tolling Interoperability	yes/no as per Directive 2004/52/EC and Commission Decision no. 2009/750/EC		x										Closed toll system in charge

Serbia - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Hard Copy	Excel	Word	GIS	Vector	WMS	API	Web App	Other	Data Collection Frequency - RP	Comments
	Safety Compliance	yes/no as per Directive 2008/96/EC		x										
	Road Tunnels Compliance (length >500m)	yes/no as per Directive 2004/54/EC			x		x							
	Data valid from	year												
	Data valid to	year												

Serbia - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Operations Data	Total traffic flow	AADT or vehicles per year			x		x							
	Passenger cars	AADT or vehicles per year			x		x							
	Busses	AADT or vehicles per year			x		x							
	Trucks	AADT or vehicles per year			x		x							
	International traffic	% of AADT or total traffic flow		x										Only customs data
	Percentage of HGVs	% of AADT or total traffic flow		x										Only customs data
	Freight traffic flow	tons per year		x										Only customs data
		vehicles per year		x										Only customs data
	Dangerous goods vehicles	Number per year or % of AADT or total traffic flow		x										Only customs data
	Passengers	number		x										Only customs data
	Average travel time (PCs)	in minutes		x										Only customs data
	Average travel time (HVGs)	in minutes		x										Only customs data
	Toll Rate Currency	Currency (e.g. Euro)		x										Only customs data
	Toll Rate Passenger Cars	per km (e.g. Euro per km)			x									
		per day (e.g. Euro per day)			x									
	Toll Rate Heavy Good Vehicles	per km (e.g. Euro per km)			x									
		per day (e.g. Euro per day)			x									
	% toll evasion	% of vehicles		x										
	Data valid for	year												
Road Safety	Total number of road traffic crash	absolute number			x									
	Road traffic crash with serious injuries only	absolute number			x									
	Fatal road traffic crash	absolute number			x									
	Chainage (km position) of road traffic crashes with injury/ fatality				x									
	Total injured	number of persons			x									
	Seriously Injured	number of persons			x									
	Fatalities	number of persons			x									
	Road Safety Audit carried out at design stage	yes/ no												Yes partially,
	Section ranked as high/risk	yes/ no												
	Road Safety Inspections carried out	Total number												
		Corresponding dates												
	Data valid for	year												
Regular Maintenance	Maintenance cost - Total	Euros per km per year			x	x								
	Maintenance cost - Open Road	Euros per km per year			x									
	Maintenance cost - Tunnel	Euros per km per year			x									
	Maintenance cost - Bridges	Euros per km per year			x									
	Heavy/ Periodic Maintenance Cost	Euros per km per year (Activities on a section of road at regular and relatively long intervals, aims to preserve the structural integrity of the road (preventive resurfacing, overlay and pavement reconstruction)			x									
	Emergency Maintenance Cost	Euros per km per year (Repairs that cannot be foreseen but require immediate attention, such as collapsed culverts or landslides that block a			x									
	Winter Maintenance Cost	Euros per km per year			x	x								
	Routine Maintenance Cost	Euros per km per year (The rest of maintenance cost for the said year)			x	x								
	Source of finance				x									
	Data valid for	year												
Heavy/ Periodic Maintenance Requirements	Requiring rehabilitation - Open Road	length of section (km)			x									
	Requiring rehabilitation - Tunnel	length of section (km)			x									
	Requiring rehabilitation - Bridges	length of section (km)			x									
	Requiring heavy/ periodic maintenance - Open Road	length of section (km)			x									
	Requiring heavy/ periodic maintenance - Tunnel	length of section (km)			x									
	Requiring heavy/ periodic maintenance - Bridges	length of section (km)			x									
	Data valid for	year												
Upgrading	Requiring upgrade to increase capacity - Open Road	length of section (km)		x										Not availble in this way - to be more detailed or revised
	Requiring upgrade to increase capacity - Tunnel	length of section (km)		x										
	Requiring upgrade to increase capacity - Bridges	length of section (km)		x										
	Data valid for	year												
Environmental Data	Air Pollution	GHG emissions (tons per year for each GHG)		x										There are data on emissions of pollution of individual greenhouse gases by sections of state roads, but no data have been selected for the future TEN-N network, nor have the amounts of annual emissions of all greenhouse gases in CO2 equivalent been calculated. Study on the assessment of pollutants in the atmosphere from traffic on state roads of the I and II order for the period , 2010-2012; 2013-2015; 2016-2018
	CO2 emissions			x										
	NOx emissions			x										
	SO2 emission evolution			x										
	Non-methane hydrocarbons			x										
	Particulate matter (ppm)			x										
	Noise	Noise levels along the section		x										
	Climate change resilience	number of flooding incidents		x										
		number of closures due to adverse weather conditions		x										
		number of embankment failures		x										
		number of winter maintenance days		x										
	Data valid for	year												
	Location of Road	Line geometry					x							
	Location of tunnels	Line geometry or Point geometry or x,y coordinates					x							

Serbia - data availability and formats

Roads - Network Performance Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Geospatial data	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates					x							
	Location of parking areas	Line geometry or Point geometry or x,y coordinates					x							
	Location of fuel stations	Point geometry or x,y coordinates					x							
	Location of road traffic crashes with injury/ fatality	Point geometry or x,y coordinates												Contact Traffic Safety Agency
	Data valid for	year												

Serbia - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	WMS	WFS	API	Meta data	Other	Data Collection Frequency - RP	Comments
Reporting Organisation Data	Name of responsible Company/Authority		Public Enterprise Roads of Serbia										On demand	
	Correspondence Address													
	Contact Person													
	Position													
	Phone number													
	Email													
Localisation	Country Code													
	TEN-T Category	Core/ Comprehensive			x		x	x						
	Corridor/ Route	Before project implementation			x		x	x						
		After project implementation			x		x	x						
	International Route ID	Before project implementation			x		x	x						
		After project implementation			x		x	x						
	National Route ID	Before project implementation			x		x	x						
		After project implementation			x		x	x						
	Start Node Name	Before project implementation			x		x	x						
		After project implementation			x		x	x						
	End Node Name	Before project implementation			x		x	x						
		After project implementation			x		x	x						
	Start km	Direction A - Before project implementation			x		x	x						
		Direction A - After project implementation			x		x	x						
		Direction B - Before project implementation			x		x	x						
		Direction B - After project implementation			x		x	x						
	End km	Direction A - Before project implementation			x		x	x						
		Direction A - After project implementation			x		x	x						
		Direction B - Before project implementation			x		x	x						
		Direction B - After project implementation			x		x	x						
Description of the Project	Project name	Text			x	x								
	Type of foreseen intervention	New infrastructure Reconstruction/rehabilitation Maintenance Horizontal/policy measure			x	x								
	Length (if linear)	Km/NA			x	x								
	Lanes	Direction A			x	x								
		Direction B			x	x								
	Total Cost (CAPEX)	Euros (should consider the overall cost of investment, not the preparatory stages only)			x	x								
Eligibility for TEN-T Project	Motorway/expressway	yes/no (new construction)			x									
	Other high-quality roads	yes/no (new construction)			x									
	Road rehabilitation/reconstruction	yes/ no (targeting capacity increase or road surface quality upgrade from very poor/poor/medium condition (IRI>2,84 to good/very good conditions))			x		x							
	Alternative fuels	yes/no			x									
	ITS compliance	yes/no		x										
	Tolling interoperability	yes/no			x									
	Safety compliance	yes/no		x										
	Road tunnels compliance	yes/no			x									
TEN-T Compliance	TEN-T Requirements Compliant	Before project implementation (yes/no)		x										
		After project implementation (yes/no)		x										
	Alternative Fuels Availability	Before project implementation (yes/no)		x										
		After project implementation (yes/no)		x										
	ITS Compliance	Before project implementation (yes/no)			x									
		After project implementation (yes/no)			x									
	Tolling Interoperability	Before project implementation (yes/no)			x									
		After project implementation (yes/no)			x									
	Safety Compliance	Before project implementation (yes/no)			x									
		After project implementation (yes/no)			x									
	Road Tunnels Compliance (length >500m)	Before project implementation (yes/no)			x									
		After project implementation (yes/no)			x									
Project Status	Implemented	Project completed and put in operation			x	x								
	On-going project (funding secured)	Works currently under execution. Tender for works/design-build on-going. Design/Tender Dossier for DB under preparation. Tender for design on-going or about to be start.			x	x								
	Mature project (feasibility study ready, funding secured)	Financing source identified (principle agreement reached), procedures on-going. Financing source identified (principle agreement reached), procedures not-yet-started. Financing source not identified.			x	x								
	Project under preparation	Feasibility study on-going. Feasibility study under tendering. Financing for feasibility study secured, procurement not yet started.			x	x								

Serbia - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Visio	MPP	API	Adobe data	Other	Data Collection Frequency - RP	Comments
IMPLEMENTED PROJECTS					x	x								
Project Timeline	Initial Project Completion Date	On tender issue			x	x								
	Actual Project Completion Date				x	x								
Project Funding Sources	National Budget	Euros			x	x								
	WB	Euros			x	x								
	EBRD	Euros			x	x								
	EIB	Euros			x	x								
	Other IFI	Specify			x	x								
		Euros			x	x								
	Concessions	Specify			x	x								
		Euros			x	x								
	EU Fund	Specify			x	x								
		Euros			x	x								
	Other funding source	Specify			x	x								
		Euros			x	x								
Project Documentation	Project Folder Title	(As built documentation or if not available then final design documentation)			x	x								
	Prepared by				x	x								
	Supervised by				x	x								
Performance Indicators	Construction period	Forecasted (months)		x										Availble in the Feasibility studies in the Ministry of Transport to be extracted from
		Actual (months)		x										
	CAPEX	Forecasted (Euros)		x										
		Actual (Euros)		x										
	OPEX	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Maintenance cost	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Interest During Construction	%		x										
	EBITDA (last year)	Euros		x										
	Revenue (if fare/toll collected)	Forecasted (Euros per year)		x										
		Actual (Euros per year)		x										
	Traffic	Passenger cars - forecasted		x										
		Passenger cars - actual		x										
		Busses - forecasted		x										
		Busses - actual		x										
		Trucks - forecasted		x										
		Trucks - actual		x										
LIVE PROJECTS					x	x								
Project Timeline	Tender Start Date (month/ year)	Initially forecasted			x	x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x								
		Actual			x	x								
	Design Completion Date (month/ year)	Forecasted (on tender issue)			x	x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x								
		Actual			x	x								
	Project Completion Date (month/ year)	Forecasted (on tender issue)			x	x								
		Current Estimation. Please refer to realistic targets rather than contractual deadlines that have become impossible to meet			x	x								
Project Funding Sources	National Budget	Euros			x	x								
		allocated/ agreement signed (yes/no)			x	x								
	WB	Euros			x	x								
		allocated/ agreement signed (yes/no)			x	x								
	EBRD	Euros			x	x								
		allocated/ agreement signed (yes/no)			x	x								
	EIB	Euros			x	x								
		allocated/ agreement signed (yes/no)			x	x								
	Other IFI	Specify			x	x								
		Euros			x	x								
		allocated/ agreement signed (yes/no)			x	x								
	Concessions	Specify			x	x								
		Euros			x	x								
		allocated/ agreement signed (yes/no)			x	x								
	EU Fund	Specify			x	x								
		Euros			x	x								
		allocated/ agreement signed (yes/no)			x	x								
	Other funding source	Specify			x	x								
		Euros			x	x								
		allocated/ agreement signed (yes/no)			x	x								
Technical Project Status	Pre-Feasibility Study	yes/no			x	x								
	Feasibility Study	yes/no			x	x								
	Concept Design	yes/no			x	x								
	Preliminary Design	yes/no			x	x								
	Detail Design	yes/no			x	x								
	Environmental Impact Assessment	yes/no			x	x								

Serbia - data availability and formats

Roads - Project Monitoring

Category	Parameter	Details	Source	Info N/A	Excel	Word	GIS	Visio	MPP	API	Adobe data	Other	Data Collection Frequency - RP	Comments
Project Documentation	Feasibility Study	Title			x	x								
		Prepared by			x	x								
		Supervised by			x	x								
	Concept Design	Title			x	x								
		Prepared by			x	x								
		Supervised by			x	x								
	Preliminary Design	Title			x	x								
		Prepared by			x	x								
		Supervised by			x	x								
	Detail Design	Title			x	x								
		Prepared by			x	x								
		Supervised by			x	x								
	Environmental Impact Assessment	Title			x	x								
		Prepared by			x	x								
		Supervised by			x	x								
Social Indicators	Annual Traffic Demand Growth	%		x										
	Modal transfer	% (if applicable)		x										
	Annual Accident Rate Reduction	% (if applicable)		x										Availble in the Feasibility studies in the Ministry of Transport to be extracted from
Economic Indicators	EIRR (Economic Internal Rate of Return)	%		x										
	NPV (Net Present Value)	Euros		x										
	SDR (Social Discount Rate)	%		x										
	Project Planning & Design Cost	Euros			x	x								
	Project Construction Cost	Euros			x	x								
	Total Project Cost	Euros			x	x								
Financial Indicators	FIRR (Financial Internal Rate of Return)	%		x										
	FNPV (Financial Net Present Value)	Euros		x										
	FDR (Financial Discount Rate)	%		x										
	WACC (Weighted Average Cost of Capital)	%		x										
	First year of profit	year		x										
	DSCR (Debt Service Coverage Ratio)	%		x										
Environmental Indicators	CO2 emissions	+/- %		x										Availble in the Feasibility studies in the Ministry of Transport to be extracted from
	NOx emissions	+/- %		x										
	SO2 emission evolution	+/- %		x										
	Non-methane hydrocarbons	+/- %		x										
	Particulate matter (ppm)	+/- %		x										
	Noise levels along the section	+/- %		x										
	Climate Change Resilience	Provide description of the project's effect to the climate change resilience of the network		x										
	Protected Natural Areas Affected	km2		x										
Geospatial data	Location of Road	Line geometry					x							
	Location of tunnels	Line geometry or Point geometry or x,y coordinates					x							
	Location of bridges over 12m length	Line geometry or Point geometry or x,y coordinates					x							
	Location of parking areas	Line geometry or Point geometry or x,y coordinates					x							
	Location of fuel stations	Point geometry or x,y coordinates										ACAD		

Serbia - data availability and formats

Road Safety

Category	Parameter	Details	Source	Info WEB	Excel	Word	GIS	WMS	WFS	API	Mobile App	Other	Data Collection Frequency - RP
Reporting Organisation Data	Name of responsible Company/Authority		Road Traffic Safety Agency										Annually
	Correspondence Address												
	Contact Person												
	Position												
	Phone number												
	Email												
Localisation	Country Code				x								
	Population	number of inhabitants			x								
	Fleet size	number of registered vehicles			x								
Road Safety Data	Total number of road traffic crashes	number						x					
	Total number of road traffic crashes - Motorway (tolled)	number						x					
	Total number of road traffic crashes - Motorway (toll-free)	number			x								
	Total number of road traffic crashes - Primary Roads (dual carriageway)	number		x									
	Total number of road traffic crashes - Primary Roads (single carriageway)	number		x									
	Total number of road traffic crashes - Secondary Roads	number						x					
	Total number of road traffic crashes - Rural Roads	number						x					
	Total number of road traffic crashes - Urban Roads	number						x					
	Road traffic crashes with serious injuries only	number						x					
	Fatal road traffic crashes	number						x					
	Seriously injured	number of persons						x					
	Fatalities	number of persons						x					
	Cause of accident (%)	alcohol											
		speed											
		infrastructure						x					
		use of electronic devices (mobile phone, GPS, etc)											
		vehicle not corresponding to standard											
	Data valid for	year											

Appendix 3: KPIs and Statistical Indicators

TODIS Key Performance Indicators

Roads - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Infrastructure	Category	Percentage of the network per road category: 1. Motorway 2. Dual Carriageway 3. Single Carriageway	1, 10, 13
	Pavement Condition	Percentage of the network per IRI range: 1. Very Good, describes the road without problems and completely comply with Standards - mainly new constructions,(IRI [0-1.24]) 2. Good, means that is a road without problems, (IRI [1.24 – 2.84]) 3a. Medium NWC, means that the road needs a New Wearing Course (NWC) (IRI [2.84- 5.09]) 3b. Medium PRH, describes a road which needs Pavement Rehabilitation (PRH) (IRI [2.84 – 5.09]) 4. Poor, means that the road needs a new Overlay and Wearing Course (OWC) (IRI [5.09 – 8.94]) 5. Very Poor, describes a road which needs a Completely New Pavement (CNP) (IRI [8.94 -])	1, 10, 13
	Parking Areas	Parking areas per 100km	8, 10, 13
	Fuel Stations	Availability of fuel per type per 100km	5, 6, 7, 10, 13
	ITS Availability	Percentage of network km covered by ITS	-
	Heavy/ Periodic Maintenance Requirements	Percentage of network km requiring rehabilitation - Open Road	1, 10, 13
		Percentage of network km requiring rehabilitation - Tunnel	1, 10, 13
		Percentage of network km requiring rehabilitation - Bridges	1, 10, 13
		Percentage of network km requiring heavy/ periodic maintenance - Open Road	1, 10, 13
		Percentage of network km requiring heavy/ periodic maintenance - Tunnel	1, 10, 13
		Percentage of network km requiring heavy/ periodic maintenance - Bridges	1, 10, 13
	Upgrading Requirements	Percentage of network km requiring upgrade to increase capacity - Open Road	1, 2, 11, 12, 10, 13
		Percentage of network km requiring upgrade to increase capacity - Tunnel	1, 2, 11, 12, 10, 13
		Percentage of network requiring upgrade to increase capacity - Bridges	1, 2, 11, 12, 10, 13
	Climate Change Resilience	number of flooding incidents per 100km	5, 6, 7, 8, 9, 10, 13
		number of closures due to adverse weather conditions per 100km	5, 6, 7, 8, 9, 10, 13
		number of embankment failures per 100km	5, 6, 7, 8, 9, 10, 13
TEN-T Compliance	Alternative Fuels Availability	Percentage of network km compliant with Directive no. 2014/94/EU	1, 5, 6, 7, 8, 10, 13
	ITS Compliance	Percentage of network km compliant with Directive 2010/40/EU	1, 3, 8, 10, 13
	Tolling Interoperability	Percentage of tolled network km compliant with Directive 2004/52/EC and Commission Decision no. 2009/750/EC	1, 3, 8, 10, 13
	Safety Compliance	Percentage of network km compliant with Directive 2008/96/EC	1, 8, 10, 13
	Road Tunnels Compliance (length >500m)	Percentage of road tunnels compliant with Directive 2004/54/EC	1, 3, 8, 10, 13
Operations	Travel Time Index (TTI)	TTI = Average Travel Time / Free Flow Travel Time where the Free Flow Travel Time is calculated based on the section length and the speed limit	2, 4, 11, 12, 10, 13
	Delays based on TTI	Average Travel Time - Free Flow Travel Time	2, 4, 11, 12, 10, 13
	Delays cost (based on TTI)	Delay Cost = Delay x Value of Time (collected for Demand Model)	2, 4, 11, 12, 10, 13
	Capacity used	AADT/ Capacity	1, 2, 4, 10, 13
	Average travel time per km - PCs	Average travel time/ Section length	2, 4, 11, 12, 10, 13
	Average travel time per km - HGVs	Average travel time/ Section length	2, 4, 11, 12, 10, 13

Safety (TEN-T Network)	Road traffic crash	Road traffic crashes per million vehicle kilometers (AADT x section length x time period in days)	8, 10, 13
	Road traffic crash with serious injuries only	Road traffic crashes with serious injuries per million vehicle kilometers (AADT x section length x time period in days)	8, 10, 13
	Fatal road traffic crash	Fatal Road traffic crashes per million vehicle kilometers (AADT x section length x time period in days)	8, 10, 13
	Seriously Injured	% change relatively to user defined period	8, 10, 13
	Fatalities	% change relatively to user defined period	8, 10, 13
Maintenance	Maintenance cost - Total	Euros per km	4, 5, 10, 13
	Maintenance cost - Open Road	Euros per km	4, 5, 10, 13
	Maintenance cost - Tunnel	Euros per km	4, 5, 10, 13
	Maintenance cost - Bridges	Euros per km	4, 5, 10, 13
	Heavy/ Periodic Maintenance Cost	Euros per km	4, 5, 10, 13
	Emergency Maintenance Cost	Euros per km	4, 5, 10, 13
	Winter Maintenance Cost	Euros per km	4, 5, 10, 13
	Routine Maintenance Cost	Euros per km	4, 5, 10, 13
Environmental Impact	Global Warming Potential	CO2 equivelant per year per 100km (as per Kyoto Protocol and UNFCCC) Cars 180g CO2e/vkm Bus 783g CO2e/vkm Truck 604g CO2e/vkm (vkm calculation: AADT x section length x 365 days)	5, 6, 7, 10, 13
	Noise	Percentage of network km over user defined limit (dB)	5, 6, 7, 10, 13

TODIS Key Performance Indicators

Road Safety

Category	KPI	Definition	Policy Goals
Safety (Entire Network)	Road traffic crashes compared to population	Road traffic crashes per million inhabitants	-
	Road traffic crashes compared to vehicle fleet	Road traffic crashes per million registered vehicles	-
	Road traffic crashes with serious injuries only compared to population	Road traffic crashes with serious injuries only per million inhabitants	-
	Road traffic crashes with serious injuries only compared to vehicle fleet	Road traffic crashes with serious injuries only per million registered vehicles	-
	Fatal road traffic crashes compared to population	Fatal road traffic crashes per million inhabitants	-
	Fatal road traffic crashes compared to vehicle fleet	Fatal road traffic crashes per million registered vehicles	-
	Seriously Injured	% change relatively to user defined period	-
	Fatalities	% change relatively to user defined period	-
	Cause of accidents (%)	% per cause of accident	-
	Cause of accidents (% change)	% change per cause relatively to user defined period	-

TODIS Key Performance Indicators

Railways - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Infrastructure	Condition of track	Percentage of network as per Operational/ Design Speed ratio: Very good (0.86 - 1.00) Good (0.71-0.85) Medium (0.61-0.70) Poor (0.51-0.60) Very Poor (0.00-0.50)	1, 10, 13
	Level-Crossings	Level crossings per 100km	8, 10, 13
	ERTMS level of deployment	Percentage of network km per ERTMS level of deployment: 0 - No ERTMS 1 - is designed as an add-on to or overlays a conventional line already equipped with lineside signals and train detectors. 2 - does not require lineside signals. The movement authority is communicated directly from a Radio Block Centre (RBC) to the onboard unit using GSM-R. 3 - still in its conceptual phase, allows for the introduction of a "moving block" technology.	1, 3, 10, 13
	Heavy/ Periodic Maintenance Requirements	Percentage of network km requiring heavy maintenance	1, 10, 13
		Percentage of network km requiring rehabilitation	1, 10, 13
	Upgrading Requirements	Percentage of network km requiring upgrade to increase capacity	1, 2, 11, 12, 10, 13
		Percentage of network km requiring upgrade (additional track/ new line)	1, 2, 11, 12, 10, 13
	Climate change resilience	number of flooding incidents per 100km	8, 9, 10, 13
		number of closures due to adverse weather conditions per 100km	8, 9, 10, 13
		number of embankment failures per 100km	8, 9, 10, 13
TEN-T Compliance	Electrification	Percentage of network km electrified (Not applicable for isolated networks. Applies to line trucks and sidings, to the extent necessary for electric train operation)	1, 3, 5, 6, 7, 10, 13
	Railway Tunnels Compliance	Percentage of network km compliant with Directive 2014/1303/EC as amended by 2016/912/EC and 2019/776/EC	1, 10, 13
	Freight Line Speed	Percentage of network km with speed at least 100km/h (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.)	1, 10, 13
	Freight Line Axle Load	Percentage of network km with axle load at least 22.5t (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.)	1, 3, 10, 13
	Freight Line Train Length	Percentage of network km with train length at least 750m (Only applicable for the freight lines of the Core Network. Isolated networks are excepted.))	1, 3, 10, 13
	Track Gauge 1435mm	Percentage of network km with track gauge 1435mm (Nominal track gauge for new railway lines. Not applicable where the new line is an extension on a network the track gauge of which is different and detached from the TEN-T network)	1, 3, 10, 13
	ERTMS Deployment - ETCS	Percentage of network km with European Train Control System (ETCS) (Not applicable for isolated networks)	1, 3, 10, 13
	ERTMS Deployment - GSM-R	Percentage of network km with Global System for Mobile communications for Railways (GSM-R) (Not applicable for isolated networks)	1, 3, 10, 13
Operations	Capacity utilisation rate	% of capacity used [(passenger trains + freight trains)/ capacity]	1, 2, 4, 11, 12, 10, 13
	Average travel time (incl. stops) per km - passenger	Average travel time/ Section length	1, 2, 4, 11, 12, 10, 13
	Average travel time (incl. stops) per km - freight	Average travel time/ Section length	1, 2, 4, 11, 12, 10, 13
	Incidents	Incidents per million train km (as per Directive 2016/798/EU - Railway Safety)	8, 10, 13
	Accidents	Accidents per million train km (as per Directive 2016/798/EU - Railway Safety)	8, 10, 13
	Injuries	Injuries per million train km (as per Directive 2016/798/EU - Railway Safety)	8, 10, 13

TODIS Key Performance Indicators

Railways - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Safety	Significant Accidents	Significant Accidents per million train km (as per Directive 2016/798/EU - Railway Safety and ERA CSI Implementation Guidance)	8, 10, 13
	Significant Accidents	% change relatively to user defined period	8, 10, 13
	Fatalities	Fatalities per million train km	8, 10, 13
	Fatalities	% change relatively to user defined period	8, 10, 13
	Serious Injuries	% change relatively to user defined period	8, 10, 13
	Level Crossings - Significant Accidents	Significant Accidents per million train km	8, 10, 13
	Level Crossings - Significant Accidents	% change relatively to user defined period	8, 10, 13
	Level Crossings - Serious Injuries	% change relatively to user defined period	8, 10, 13
	Level Crossings - Fatalities	% change relatively to user defined period	8, 10, 13
Maintenance	Maintenance cost - Total	Euros per km	4, 5, 10, 13
	Maintenance cost - Infrastructure	Euros per km	4, 5, 10, 13
	Maintenance cost - Signalling and telecom system	Euros per km	4, 5, 10, 13
	Maintenance cost - Electrification system	Euros per km	4, 5, 10, 13
Environmental Impact	Global Warming Potential	CO2 equivelant per year per 100km (as per Kyoto Protocol and UNFCCC) Passenger Trains Only Electric Fleet 0g CO2e/passenger km Only Diesel Fleet 76.9g CO2e/passenger km Mixed Fleet 6.4g CO2e/passenger km Freight Trains Only Electric Fleet 0g CO2e/tkm Only Diesel Fleet 22.2g CO2e/tkm Mixed Fleet 1.9g CO2e/t km	5, 6, 7, 10, 13
	Noise	Percentage of network km over user defined limit (dB)	5, 6, 7, 10, 13

TODIS Key Performance Indicators

Freight Terminal - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Infrastructure	Condition	Percentage of terminals per condition status: 1) Very Good 2) Good 3) Medium 4) Poor 5) Very Poor	1, 10, 13
	Rail Connection	Percentage of terminals with Rail Conncection	1, 10, 13
	Road Connection	Percentage of terminals with Road Conncection	1, 10, 13
	IWW Connection	Percentage of terminals with IWW Conncection	1, 10, 13
	Sea Connection	Percentage of terminals with Sea Conncection	1, 10, 13
	Air Connection	Percentage of terminals with Air Conncection	1, 10, 13
	Upgrading requirements	Percentage of terminals requiring upgrade to increase capacity	1, 2, 11, 12, 10, 13
	Climate change resilience	% change in number of flooding incidents relatively to user defined period	8, 9, 10, 13
TEN-T Compliance	Inter-modality	Percentage of terminals providing the possibility to tranship all types of standard intermodal loading units (containers, swap bodies, trailers).	1, 3, 8, 10, 13
	740m train length	Percentage of terminals providing access to trains with 740m length Fulfilment of this criterion is restricted to recently constructed terminals.	1, 3, 8, 10, 13
	Electrified access	Percentage of terminals providing electrified access to trains	1, 3, 5, 6, 7, 10, 13
	Open availability	Percentage of terminals providing free non-discriminatory access and transparent charges.	1, 3, 8, 10, 13
Operations	Storage capacity utilisation rate	% of capacity	1, 2, 4, 11, 12, 10, 13
	Transhipment capacity utilisation rate	% of capacity	1, 2, 4, 11, 12, 10, 13
Maintenance	Maintenance cost - Total	Euros per million tons of freight	4, 5, 10, 13
	Emergency Maintenance Cost	Euros per million tons of freight	4, 5, 10, 13
	Routine Maintenance Cost	Euros per million tons of freight	4, 5, 10, 13
Environmental Impact	CO2 emissions	Tons per million tons of freight	5, 6, 7, 10, 13
	NOx emissions	Tons per million tons of freight	5, 6, 7, 10, 13
	SO2 emission evolution	Tons per million tons of freight	5, 6, 7, 10, 13
	Non-methane hydrocarbons	Tons per million tons of freight	5, 6, 7, 10, 13
	Particulate matter (ppm)	Tons per million tons of freight	5, 6, 7, 10, 13

TODIS Key Performance Indicators

Inland Waterways - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Infrastructure	CEMT class	Percentage of the network per CEMT class: I to III IV V a V b Vi a Vi b VI c VII	1, 3, 10, 13
	Condition	Percentage of terminals per condition status: 1) Very Good 2) Good 3) Medium 4) Poor 5) Very Poor	1, 10, 13
	Locks	Number of locks per 100km	-
	Locks type	Percentage of locks by type: 1) Single lock 2) Double lock	-, 10, 13
	ITS Availability	Percentage of IWW km covered by ITS	, 10, 13
	River Information System (RIS)	Percentage of IWW km covered by RIS	1, 3, 8, 10, 13
	Heavy/ Periodic Maintenance Requirements	Percentage of network km requiring heavy maintenance	1, 10, 13
		Percentage of network km requiring rehabilitation	1, 10, 13
	Upgrading requirements	Percentage of network km requiring upgrade to increase capacity	1, 2, 11, 12, 10, 13
	Climate change resilience	number of flooding incidents per 100km	8, 9, 10, 13
		number of closures due to adverse weather conditions per 100km	8, 9, 10, 13
		number of embankment failures per 100km	8, 9, 10, 13
TEN-T Compliance	CEMT Class IV	Percentage of network km compliant (as per the new classification of IWW established by the European Conference of Ministers of Transport - ECMT)	1, 3, 8, 10, 13
	Draught at least 2.5m	Percentage of network km compliant	1, 3, 8, 10, 13
	Bridge Height at least 5.25m	Percentage of network km compliant	1, 3, 8, 10, 13
	Good Navigation Status Maintenance	Percentage of network km compliant (Rivers, canals and lakes are maintained so as to preserve good navigation status, with full observance of the applicable environmental law)	1, 3, 8, 10, 13
	RIS Deployment	Percentage of network km compliant with Directive 2005/44/EC	1, 3, 8, 10, 13
Operations	-	-	-
Maintenance	Maintenance cost - Total	Euros per km	4, 5, 10, 13
	Maintenance cost - Landside Infrastructure	Euros per km	4, 5, 10, 13
	Maintenance cost - Riverside Infrastructure	Euros per km	4, 5, 10, 13

TODIS Key Performance Indicators

Inland Waterways - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Environmental Data	CO2 emissions	Tons per 100km	5, 6, 7, 10, 13
	NOx emissions	Tons per 100km	5, 6, 7, 10, 13
	SO2 emission evolution	Tons per 100km	5, 6, 7, 10, 13
	Non-methane hydrocarbons	Tons per 100km	5, 6, 7, 10, 13
	Particulate matter (ppm)	Tons per 100km	5, 6, 7, 10, 13

TODIS Key Performance Indicators

Inland Waterways Ports - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Infrastructure	Activity	Percentage of IWW ports per activity: 1) Freight 2) Passenger 3) Passenger and freight	-
	Condition	Percentage of IWW ports per condition status: 1) Very Good 2) Good 3) Medium 4) Poor 5) Very Poor	1, 10, 13
	RoRo facilities	Percentage of IWW ports with RoRo facilities	1, 10, 13
	Transhipment facilities for intermodal transport	Percentage of IWW ports with transhipment facilities for intermodal transport	1, 10, 13
	Rail Connection	Percentage of IWW ports with Rail Conncection	1, 10, 13
	Road Connection	Percentage of IWW ports with Road Conncection	1, 10, 13
	Intelligent Transport Systems (ITS)	Percentage of IWW ports with ITS	-
	Vessel Traffic Management Information System (VTMIS)	Percentage of IWW ports with VTMIS	3, 8, 10, 13
	Upgrade Requirements	Percentage of IWW ports requiring upgrade to increase passenger capacity	1, 2, 11, 12, 10, 13
		Percentage of IWW ports requiring upgrade to increase freight capacity	1, 2, 11, 12, 10, 13
	Climate change resilience	% change in number of flooding incidents relatively to user defined period	8, 9, 10, 13
		% change in number of closures due to adverse weather conditions relatively to user defined period	8, 9, 10, 13
		% change in number of embankment failures relatively to user defined period	8, 9, 10, 13
TEN-T Compliance	Rail Connection	Percentage of IWW ports providing rail connection	1, 3, 10, 13
	Road Connection	Percentage of IWW ports providing road connection	1, 3, 10, 13
	Clean fuels availability	Percentage of IWW ports with clean fuels availability (Only applicable for the Core Network)	1, 3, 5, 6, 7, 8, 10, 13
	Terminal availability	Percentage of IWW ports with at least one terminal open to all operators in a non-discriminatory way and shall apply transparent charges	1, 3, 8, 10, 13
	RIS Deployment	Percentage of IWW ports with RIS (as per Directive 2005/44/EC)	1, 3, 8, 10, 13
Operations	Storage capacity utilisation rate	% of capacity	1, 2, 4, 11, 12, 10, 13
	Transhipment capacity utilisation rate	% of capacity	1, 2, 4, 11, 12, 10, 13
	Passenger capacity utilisation rate	% of capacity	1, 2, 4, 11, 12, 10, 13
Maintenance	Maintenance cost - Total	Euros per million tons of freight or per million passengers	4, 5, 10, 13
	Maintenance cost - Landside Infrastructure	Euros per million tons of freight or per million passengers	4, 5, 10, 13
	Maintenance cost - Riverside Infrastructure	Euros per million tons of freight or per million passengers	4, 5, 10, 13

TODIS Key Performance Indicators

Inland Waterways Ports - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Environmental Impact	CO2 emissions	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	NOx emissions	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	SO2 emission evolution	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	Non-methane hydrocarbons	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	Particulate matter (ppm)	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13

TODIS Key Performance Indicators

Seaports - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Infrastructure	Activity	Percentage of Seaports per activity: 1) Freight 2) Passenger 3) Passenger and freight	-
	Condition	Percentage of Seaports per condition status: 1) Very Good 2) Good 3) Medium 4) Poor 5) Very Poor	1, 10, 13
	RoRo facilities	Percentage of Seaports with RoRo facilities	1, 10, 13
	Transhipment facilities for intermodal transport	Percentage of Seaports with transhipment facilities for intermodal transport	1, 10, 13
	Rail Connection	Percentage of Seaports with Rail Conncection	1, 10, 13
	Road Connection	Percentage of Seaports with Road Conncection	1, 10, 13
	Intelligent Transport Systems (ITS)	Percentage of Seaports with ITS	-
	Vessel Traffic Management Information System (VTMIS)	Percentage of Seaports with VTMIS	3, 8, 10, 13
	Upgrade Requirements	Percentage of Seaports requiring upgrade to increase passenger capacity	1, 2, 11, 12, 10, 13
		Percentage of Seaports requiring upgrade to increase freight capacity	1, 2, 11, 12, 10, 13
	Climate change resilience	% change in number of flooding incidents relatively to user defined period	8, 9, 10, 13
		% change in number of closures due to adverse weather conditions relatively to user defined period	8, 9, 10, 13
TEN-T Compliance	Rail Connection	Percentage of Seaports providing rail connection	1, 3, 10, 13
	Road Connection	Percentage of Seaports providing road connection	1, 3, 10, 13
	IWW/ CEMT Connection	Percentage of Seaports providing IWW/ CEMT connection (If physical constraints do not prevent such connection)	1, 3, 10, 13
	Clean fuels availability	Percentage of Seaports with clean fuels availability (Only applicable for the Core Network)	1, 3, 5, 6, 7, 8, 10, 13
	Terminal availability	Percentage of Seaports with at least one terminal open to all operators in a non-discriminatory way and shall apply transparent charges	1, 3, 8, 10, 13
	Waste facilities	Percentage of Seaports with waste facilities as per Directive 2000/59/EC	5, 6, 7, 10, 13
	VTMIS Deployment	Percentage of Seaports with VTMIS (as per Directive 2002/59/EC as amended by Directive 2009/17/EC)	1, 3, 8, 10, 13
Operations	Storage capacity utilisation rate	% of capacity	1, 2, 4, 11, 12, 10, 13
	Transhipment capacity utilisation rate	% of capacity	1, 2, 4, 11, 12, 10, 13
	Passenger capacity utilisation rate	% of capacity	1, 2, 4, 11, 12, 10, 13
Maintenance	Maintenance cost - Total	Euros per million tons of freight or per million passengers	4, 5, 10, 13
	Maintenance cost - Landside Infrastructure	Euros per million tons of freight or per million passengers	4, 5, 10, 13
	Maintenance cost - Maritime Infrastructure	Euros per million tons of freight or per million passengers	4, 5, 10, 13

TODIS Key Performance Indicators

Seaports - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Environmental Impact	CO2 emissions	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	NOx emissions	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	SO2 emission evolution	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	Non-methane hydrocarbons	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	Particulate matter (ppm)	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13

TODIS Key Performance Indicators

Airports - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Infrastructure	Activity	Percentage of Airports per activity: 1) Freight 2) Passenger 3) Passenger and freight	-
	Condition	Percentage of Airports per condition status: 1) Very Good 2) Good 3) Medium 4) Poor 5) Very Poor	1, 10, 13
	IATA Landing Slot Classification	Percentage of Airports per IATA Landing Slot Classification: Level 1 (Non-Coordinated Airport) Level 2 (Schedules Facilitated Airport) Level 3 (Coordinated Airport)	1, 10, 13
	ICAO Airport Classification	Percentage of Airports per ICAO Airport Classification: Code A (Airplane Wingspan less than 15m; Outer Main Gear Wheel Span less than 4.5m) Code B (Airplane Wingspan from 15m up to less than 24m; Outer Main Gear Wheel Span from 4.5m up to less than 6m) Code C (Airplane Wingspan from 24m up to less than 36m; Outer Main Gear Wheel Span from 6m up to less than 9m) Code D (Airplane Wingspan from 36m up to less than 52m; Outer Main Gear Wheel Span from 9m up to less than 14m) Code E (Airplane Wingspan from 52m up to less than 65m; Outer Main Gear Wheel Span from 9m up to less than 14m) Code F (Airplane Wingspan from 65m up to less than 80m; Outer Main Gear Wheel Span from 14m up to less than 16m)	1, 10, 13
	ILS Category	Percentage of Airports per ILS Category: I II III A III B III C	1, 10, 13
	Rail Connection	Percentage of Airports per rail connection availabilty: 1) yes - integrated to long distance rail network 2) yes - rail shuttle 3) no - other public shuttle 4) no - no public shuttle connection	1, 10, 13
	European air traffic management network (EATMN)	Percentage of Airports with EATMN systems: 1. Systems and procedures for airspace management. 2. Systems and procedures for air traffic flow management. 3. Systems and procedures for air traffic services, in particular flight data processing systems, surveillance data processing systems and human-machine interface systems. 4. Communications systems and procedures for ground-to-ground, air-to-ground and air-to- air communications. 5. Navigation systems and procedures. 6. Surveillance systems and procedures. 7. Systems and procedures for aeronautical information services. 8. Systems and procedures for the use of meteorological information. 9. Others	1, 10, 13
	Upgrade Requirements	Percentage of Airports requiring upgrade to increase capacity (terminal building)	1, 2, 11, 12, 10, 13
		Percentage of Airports requiring upgrade to increase runway length	1, 2, 11, 12, 10, 13
	Climate change resilience	% change in number of flooding incidents relatively to user defined period	8, 9, 10, 13
		% change in number of closures due to adverse weather conditions relatively to user defined period	8, 9, 10, 13

TODIS Key Performance Indicators

Airports - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
TEN-T Compliance	Rail Connection	Percentage of Airports providing rail connection	1, 3, 10, 13
	Clean fuels availability	Percentage of Airports with clean fuels availability (Only applicable for the Core Network Airports)	1, 3, 5, 6, 7, 8, 10, 13
	Terminal availability	Percentage of Airports with at least one terminal open to all operators in a non-discriminatory way and shall apply transparent charges	1, 3, 8, 10, 13
Operations	Declared capacity utlisation rate	Throughput/ Annualised Declared Capacity	1, 2, 4, 11, 12, 10, 13
	Passenger capacity utilisation rate	Passenger traffic per year / Passenger Capacity	1, 2, 4, 11, 12, 10, 13
	Freight capacity utilisation rate	Freight tons per year / Freight Capacity	1, 2, 4, 11, 12, 10, 13
	Aircraft movements by type of operation	Percentage of aircraft movements per type of operation: 1) network carrier 2) low cost carrier 3) charter 4) cargo	-
	Passenger destination	Percentage of passengers per destination: 1) arrivals 2) transit	-
Maintenance	Maintenance cost - Total	Tons per million tons of freight or per million passengers	4, 5, 10, 13
	Maintenance cost - Passenger terminals	Euros per million passengers	4, 5, 10, 13
	Maintenance cost - Freight terminals	Euros per million tons of freight	4, 5, 10, 13
	Maintenance cost - Runways	Tons per million tons of freight or per million passengers	4, 5, 10, 13
Environmental Impact	CO2 emissions	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	NOx emissions	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	SO2 emission evolution	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	Non-methane hydrocarbons	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13
	Particulate matter (ppm)	Tons per million tons of freight or per million passengers	5, 6, 7, 10, 13

TODIS Key Performance Indicators

Border Crossings - Network Performance Monitoring

Category	KPI	Definition	Policy Goals
Infrastructure	Green Lanes	Percentage of BCPs covered by Green Lane	1, 2, 3, 11, 12, 10, 13
	One-stop procedure (Joint Border)	Percentage of BCPs with one-stop procedure	1, 2, 11, 12, 10, 13
		Percentage of BCPs per type of joint BCP: 1) for passengers 2) for goods 3) collocated on the territory of one party 4) entry-entry joint controls 5) other	1, 2, 11, 12, 10, 13
	State of play (customs/border police/other border agencies)	Percentage of BCPS with separate/ joint booths	, 10, 13
		Percentage of BCPS with separate/ joint data Systems	-
		Percentage of BCPS with physical inspection facilities	-
	Systematic Electronic Exchange of Data (SEED)	Percentage of BCPS with SEED	1, 10, 13
	New Computerized Transport System (NCTS)	Percentage of BCPS with NCTS	1, 10, 13
	eQMS (Queue Management System)	Percentage of BCPS with eQMS	1, 10, 13
	Other Electronic Information System	Percentage of BCPS with other information system	-
	Upgrade Requirements	Percentage of BCPS requiring upgrade to increase capacity (building infrastructure)	1, 2, 11, 12, 10, 13
		Percentage of BCPS requiring upgrade to IT Systems/ ITS - Adoption of New Computerized Transport System (NCTS)	1, 2, 11, 12, 10, 13
Operations	Type of Controls/ Inspections Performed	Percentage of BCPS performing phytosanitary controls/ inspections	-
		Percentage of BCPS performing veterinary controls/ inspections	-
		Percentage of BCPS performing radiological controls/ inspections	-
		Percentage of BCPS performing other non-trade related controls (road charges collection, vehicles technical compliance, any other)	-
	Average Times (Rail)	Average entry time passenger trains	2, 4, 11, 12, 10, 13
		Average entry time freight trains	2, 4, 11, 12, 10, 13
		Average exit time passenger trains	2, 4, 11, 12, 10, 13
		Average exit time freight trains	2, 4, 11, 12, 10, 13
	Average Times (Road)	Passenger Cars entering - Average waiting/queuing time	2, 4, 11, 12, 10, 13
		Freight Vehicles entering - Average waiting/queuing time	2, 4, 11, 12, 10, 13
		Buses entering - Average waiting/queuing time	2, 4, 11, 12, 10, 13
		Passenger Cars entering - Average duration of control procedures	2, 4, 11, 12, 10, 13
		Freight Vehicles entering - Average duration of control procedures	2, 4, 11, 12, 10, 13
		Buses entering - Average duration of control procedures	2, 4, 11, 12, 10, 13
		Passenger Cars exiting - Average waiting/queuing time	2, 4, 11, 12, 10, 13
		Freight Vehicles exiting - Average waiting/queuing time	2, 4, 11, 12, 10, 13
		Buses exiting - Average waiting/queuing time	2, 4, 11, 12, 10, 13
		Passenger Cars exiting - Average duration of control procedures	2, 4, 11, 12, 10, 13
		Freight Vehicles exiting - Average duration of control procedures	2, 4, 11, 12, 10, 13
		Buses exiting - Average duration of control procedures	2, 4, 11, 12, 10, 13

TODIS Key Performance Indicators

Roads - Project Monitoring

Category	KPI	Definition
Project Type	Eligibility for TEN-T Project	Percentage of projects per type of TEN-T eligible intervention: 1) Motorway/expressway 2) Other high-quality roads 3) Road rehabilitation/reconstruction 4) Alternative fuels 5) ITS compliance 6) Tolling interoperability 7) Safety compliance 8) Road tunnels compliance
TEN-T Compliance	Alternative Fuels Availability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	ITS Compliance	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Tolling Interoperability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Safety Compliance	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Road Tunnels Compliance (length >500m)	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)

TODIS Key Performance Indicators

Roads - Project Monitoring

Category	KPI	Definition
Project Status	Status (high level)	Percentage of projects per status category: 1) Implemented 2) On-going project (funding secured) 3) Mature project (feasibility study ready, funding secured) 4) Project under preparation
	Status (detailed)	Percentage of projects per status sub-category: 1) Project completed and put in operation 2) Works currently under execution. 3) Tender for works/design-build on-going. 4) Design/Tender Dossier for DB under preparation. 5) Tender for design on-going or about to be start. 6) Financing source identified (principle agreement reached), procedures on-going. 7) Financing source identified (principle agreement reached), procedures not-yet-started. 8) Financing source not identified. 9) Feasibility study on-going. 10) Feasibility study under tendering. 11) Financing for feasibility study secured, procurement not yet started.
IMPLEMENTED PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Total Cost (CAPEX)	% of projects within user defined ranges

TODIS Key Performance Indicators

Roads - Project Monitoring

Category	KPI	Definition
Performance Indicators	Project Timeline Deviation	Completion Date Deviation in months (actual minus initial completion date)
		Construction Duration Deviation (actual/ forecasted)
	CAPEX Deviation	Actual/ Forecasted
	OPEX Deviation	Actual/ Forecasted
	Maintenance cost Deviation	Actual/ Forecasted
	EBITDA (last year)	% of projects within user defined ranges
	Revenue Deviation (if fare/toll collected)	Revenue Deviation (actual/ forecasted)
	Traffic Deviation	Total Traffic Deviation (actual/ forecasted)
		Passenger cars Traffic Deviation (actual/ forecasted)
		Bus Traffic Deviation (actual/ forecasted)
		HGV Traffic Deviation (actual/ forecasted)
LIVE PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Alocated funding	Percentage of alocated funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source

TODIS Key Performance Indicators

Roads - Project Monitoring

Category	KPI	Definition
Project Timeline	Tender Start Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Design Completion Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Project Completion Date Deviation	Current minus initial estimation
Project Technical Status	Pre-Feasibility Study	% of projects with/ without
	Feasibility Study	% of projects with/ without
	Concept Design	% of projects with/ without
	Preliminary Design	% of projects with/ without
	Detail Design	% of projects with/ without
	Environmental Impact Assessment	% of projects with/ without
Social Indicators	Annual Traffic Demand Growth (%)	% of projects within user defined ranges
	Modal transfer (%) (if applicable))	% of projects within user defined ranges
	Annual Accident Rate Reduction (%) (if applicable))	% of projects within user defined ranges
Economic Indicators	EIRR (Economic Internal Rate of Return) (%)	% of projects within user defined ranges
	NPV (Net Present Value) (Euros)	% of projects within user defined ranges
	SDR (Social Discount Rate) (%)	% of projects within user defined ranges
	Project Planning & Design Cost (Euros)	% of projects within user defined ranges
	Project Construction Cost (Euros)	% of projects within user defined ranges
	Total Project Cost (Euros)	% of projects within user defined ranges
Financial Indicators	FIRR (Financial Internal Rate of Return) (%)	% of projects within user defined ranges
	FNPV (Financial Net Present Value) (Euros)	% of projects within user defined ranges
	FDR (Financial Discount Rate) (%)	% of projects within user defined ranges
	WACC (Weighted Average Cost of Capital) (%)	% of projects within user defined ranges
	First year of profit (year)	% of projects within user defined ranges
	DSCR (Debt Service Coverage Ratio) (%)	% of projects within user defined ranges

TODIS Key Performance Indicators

Roads - Project Monitoring

Category	KPI	Definition
Environmental Indicators	CO2 emissions (+/- %)	% of projects within user defined ranges
	NOx emissions (+/- %)	% of projects within user defined ranges
	SO2 emission evolution (+/- %)	% of projects within user defined ranges
	Non-methane hydrocarbons (+/- %)	% of projects within user defined ranges
	Particulate matter (ppm) (+/- %)	% of projects within user defined ranges
	Noise levels along the section (+/- %)	% of projects within user defined ranges
	Climate Change Resilience	% of projects with effect to the climate change resilience of the network
	Protected Natural Areas Affected (km2)	% of projects within user defined ranges

TODIS Key Performance Indicators

Railways - Project Monitoring

Category	KPI	Definition
Project Type	Eligibility for TEN-T Project	Percentage of projects per type of TEN-T eligible intervention: 1) Electrification 2) Line speed 100 km/h (freight) 3) Axle load 22,5 t 4) Track gauge 5) Train length 740 m 6) ERTMS Deployment (ETCS) 7) ERTMS Deployment (GSM-R)
TEN-T Compliance	Electrification	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Line speed 100 km/h (freight)	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Axle load 22,5 t	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Track gauge	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Train length 740 m	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	ERTMS Deployment (ETCS)	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	ERTMS Deployment (GSM-R)	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)

TODIS Key Performance Indicators

Railways - Project Monitoring

Category	KPI	Definition
Project Status	Status (high level)	Percentage of projects per status category: 1) Implemented 2) On-going project (funding secured) 3) Mature project (feasibility study ready, funding secured) 4) Project under preparation
	Status (detailed)	Percentage of projects per status sub-category: 1) Project completed and put in operation 2) Works currently under execution. 3) Tender for works/design-build on-going. 4) Design/Tender Dossier for DB under preparation. 5) Tender for design on-going or about to be start. 6) Financing source identified (principle agreement reached), procedures on-going. 7) Financing source identified (principle agreement reached), procedures not-yet-started. 8) Financing source not identified. 9) Feasibility study on-going. 10) Feasibility study under tendering. 11) Financing for feasibility study secured, procurement not yet started.
IMPLEMENTED PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Total Cost (CAPEX)	% of projects within user defined ranges

TODIS Key Performance Indicators

Railways - Project Monitoring

Category	KPI	Definition
Performance Indicators	Project Timeline Deviation	Completion Date Deviation in months (actual minus initial completion date)
		Construction Duration Deviation (actual/ forecasted)
	CAPEX Deviation	Actual/ Forecasted
	OPEX Deviation	Actual/ Forecasted
	Maintenance cost Deviation	Actual/ Forecasted
	EBITDA (last year)	% of projects within user defined ranges
	Revenue Deviation (if fare/toll collected)	Revenue Deviation (actual/ forecasted)
	Traffic Deviation	Train Traffic Deviation (actual/ forecasted)
		Passenger Traffic Deviation (actual/ forecasted)
		Freight (tn) Deviation (actual/ forecasted)
LIVE PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Alocated funding	Percentage of alocated funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source

TODIS Key Performance Indicators

Railways - Project Monitoring

Category	KPI	Definition
Project Timeline	Tender Start Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Design Completion Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Project Completion Date Deviation	Current minus initial estimation
Project Technical Status	Pre-Feasibility Study	% of projects with/ without
	Feasibility Study	% of projects with/ without
	Concept Design	% of projects with/ without
	Preliminary Design	% of projects with/ without
	Detail Design	% of projects with/ without
	Environmental Impact Assessment	% of projects with/ without
Social Indicators	Annual Traffic Demand Growth (%)	% of projects within user defined ranges
	Modal transfer (%) (if applicable))	% of projects within user defined ranges
	Annual Accident Rate Reduction (%) (if applicable))	% of projects within user defined ranges
Economic Indicators	EIRR (Economic Internal Rate of Return) (%)	% of projects within user defined ranges
	NPV (Net Present Value) (Euros)	% of projects within user defined ranges
	SDR (Social Discount Rate) (%)	% of projects within user defined ranges
	Project Planning & Design Cost (Euros)	% of projects within user defined ranges
	Project Construction Cost (Euros)	% of projects within user defined ranges
	Total Project Cost (Euros)	% of projects within user defined ranges
Financial Indicators	FIRR (Financial Internal Rate of Return) (%)	% of projects within user defined ranges
	FNPV (Financial Net Present Value) (Euros)	% of projects within user defined ranges
	FDR (Financial Discount Rate) (%)	% of projects within user defined ranges
	WACC (Weighted Average Cost of Capital) (%)	% of projects within user defined ranges
	First year of profit (year)	% of projects within user defined ranges
	DSCR (Debt Service Coverage Ratio) (%)	% of projects within user defined ranges

TODIS Key Performance Indicators

Railways - Project Monitoring

Category	KPI	Definition
Environmental Indicators	CO2 emissions (+/- %)	% of projects within user defined ranges
	NOx emissions (+/- %)	% of projects within user defined ranges
	SO2 emission evolution (+/- %)	% of projects within user defined ranges
	Non-methane hydrocarbons (+/- %)	% of projects within user defined ranges
	Particulate matter (ppm) (+/- %)	% of projects within user defined ranges
	Noise levels along the section (+/- %)	% of projects within user defined ranges
	Climate Change Resilience	% of projects with effect to the climate change resilience of the network
	Protected Natural Areas Affected (km2)	% of projects within user defined ranges

TODIS Key Performance Indicators

Freight Terminals - Project Monitoring

Category	KPI	Definition
Project Type	Eligibility for TEN-T Project	Percentage of projects per type of TEN-T eligible intervention: 1) Inter-modality 2) 740m train length 3) Electrified access 4) Open availability
TEN-T Compliance	Inter-modality	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	740m train length	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Electrified access	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Open availability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)

TODIS Key Performance Indicators

Freight Terminals - Project Monitoring

Category	KPI	Definition
Project Status	Status (high level)	Percentage of projects per status category: 1) Implemented 2) On-going project (funding secured) 3) Mature project (feasibility study ready, funding secured) 4) Project under preparation
	Status (detailed)	Percentage of projects per status sub-category: 1) Project completed and put in operation 2) Works currently under execution. 3) Tender for works/design-build on-going. 4) Design/Tender Dossier for DB under preparation. 5) Tender for design on-going or about to be start. 6) Financing source identified (principle agreement reached), procedures on-going. 7) Financing source identified (principle agreement reached), procedures not-yet-started. 8) Financing source not identified. 9) Feasibility study on-going. 10) Feasibility study under tendering. 11) Financing for feasibility study secured, procurement not yet started.
IMPLEMENTED PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Total Cost (CAPEX)	% of projects within user defined ranges

TODIS Key Performance Indicators

Freight Terminals - Project Monitoring

Category	KPI	Definition
Performance Indicators	Project Timeline Deviation	Completion Date Deviation in months (actual minus initial completion date)
		Construction Duration Deviation (actual/ forecasted)
	CAPEX Deviation	Actual/ Forecasted
	OPEX Deviation	Actual/ Forecasted
	Maintenance cost Deviation	Actual/ Forecasted
	EBITDA (last year)	% of projects within user defined ranges
	Revenue Deviation (if fare/toll collected)	Revenue Deviation (actual/ forecasted)
	Traffic Deviation	Terminal Traffic Deviation (actual/ forecasted)
		Freight (tn) Deviation (actual/ forecasted)
LIVE PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Alocated funding	Percentage of alocated funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
Project Timeline	Tender Start Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Design Completion Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Project Completion Date Deviation	Current minus initial estimation

TODIS Key Performance Indicators

Freight Terminals - Project Monitoring

Category	KPI	Definition
Project Technical Status	Pre-Feasibility Study	% of projects with/ without
	Feasibility Study	% of projects with/ without
	Concept Design	% of projects with/ without
	Preliminary Design	% of projects with/ without
	Detail Design	% of projects with/ without
	Environmental Impact Assessment	% of projects with/ without
Social Indicators	Annual Traffic Demand Growth (%)	% of projects within user defined ranges
	Modal transfer (%) (if applicable))	% of projects within user defined ranges
	Annual Accident Rate Reduction (%) (if applicable))	% of projects within user defined ranges
Economic Indicators	EIRR (Economic Internal Rate of Return) (%)	% of projects within user defined ranges
	NPV (Net Present Value) (Euros)	% of projects within user defined ranges
	SDR (Social Discount Rate) (%)	% of projects within user defined ranges
	Project Planning & Design Cost (Euros)	% of projects within user defined ranges
	Project Construction Cost (Euros)	% of projects within user defined ranges
	Total Project Cost (Euros)	% of projects within user defined ranges
Financial Indicators	FIRR (Financial Internal Rate of Return) (%)	% of projects within user defined ranges
	FNPV (Financial Net Present Value) (Euros)	% of projects within user defined ranges
	FDR (Financial Discount Rate) (%)	% of projects within user defined ranges
	WACC (Weighted Average Cost of Capital) (%)	% of projects within user defined ranges
	First year of profit (year)	% of projects within user defined ranges
	DSCR (Debt Service Coverage Ratio) (%)	% of projects within user defined ranges
Environmental Indicators	CO2 emissions (+/- %)	% of projects within user defined ranges
	NOx emissions (+/- %)	% of projects within user defined ranges
	SO2 emission evolution (+/- %)	% of projects within user defined ranges
	Non-methane hydrocarbons (+/- %)	% of projects within user defined ranges
	Particulate matter (ppm) (+/- %)	% of projects within user defined ranges
	Noise levels along the section (+/- %)	% of projects within user defined ranges
	Climate Change Resilience	% of projects with effect to the climate change resilience of the network
	Protected Natural Areas Affected (km2)	% of projects within user defined ranges

TODIS Key Performance Indicators

Inland Waterways - Project Monitoring

Category	KPI	Definition
Project Type	Eligibility for TEN-T Project	Percentage of projects per type of TEN-T eligible intervention: 1) CEMT Class IV 2) Draught at least 2.5m 3) Bridge Height at least 5.25m 4) RIS Deployment
TEN-T Compliance	CEMT Class IV Compliance	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Draught at least 2.5m	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Bridge Height at least 5.25m	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	RIS Deployment	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)

TODIS Key Performance Indicators

Inland Waterways - Project Monitoring

Category	KPI	Definition
Project Status	Status (high level)	Percentage of projects per status category: 1) Implemented 2) On-going project (funding secured) 3) Mature project (feasibility study ready, funding secured) 4) Project under preparation
	Status (detailed)	Percentage of projects per status sub-category: 1) Project completed and put in operation 2) Works currently under execution. 3) Tender for works/design-build on-going. 4) Design/Tender Dossier for DB under preparation. 5) Tender for design on-going or about to be start. 6) Financing source identified (principle agreement reached), procedures on-going. 7) Financing source identified (principle agreement reached), procedures not-yet-started. 8) Financing source not identified. 9) Feasibility study on-going. 10) Feasibility study under tendering. 11) Financing for feasibility study secured, procurement not yet started.
IMPLEMENTED PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Total Cost (CAPEX)	% of projects within user defined ranges

TODIS Key Performance Indicators

Inland Waterways - Project Monitoring

Category	KPI	Definition
Performance Indicators	Project Timeline Deviation	Completion Date Deviation in months (actual minus initial completion date)
		Construction Duration Deviation (actual/ forecasted)
	CAPEX Deviation	Actual/ Forecasted
	OPEX Deviation	Actual/ Forecasted
	Maintenance cost Deviation	Actual/ Forecasted
	EBITDA (last year)	% of projects within user defined ranges
	Revenue Deviation (if fare/toll collected)	Revenue Deviation (actual/ forecasted)
	Traffic Deviation	Traffic Deviation (actual/ forecasted)
		Passenger Traffic Deviation (actual/ forecasted)
		Freight (tn) Deviation (actual/ forecasted)
LIVE PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Alocated funding	Percentage of alocated funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source

TODIS Key Performance Indicators

Inland Waterways - Project Monitoring

Category	KPI	Definition
Project Timeline	Tender Start Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Design Completion Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Project Completion Date Deviation	Current minus initial estimation
Project Technical Status	Pre-Feasibility Study	% of projects with/ without
	Feasibility Study	% of projects with/ without
	Concept Design	% of projects with/ without
	Preliminary Design	% of projects with/ without
	Detail Design	% of projects with/ without
	Environmental Impact Assessment	% of projects with/ without
Social Indicators	Annual Traffic Demand Growth (%)	% of projects within user defined ranges
	Modal transfer (%) (if applicable))	% of projects within user defined ranges
	Annual Accident Rate Reduction (%) (if applicable))	% of projects within user defined ranges
Economic Indicators	EIRR (Economic Internal Rate of Return) (%)	% of projects within user defined ranges
	NPV (Net Present Value) (Euros)	% of projects within user defined ranges
	SDR (Social Discount Rate) (%)	% of projects within user defined ranges
	Project Planning & Design Cost (Euros)	% of projects within user defined ranges
	Project Construction Cost (Euros)	% of projects within user defined ranges
	Total Project Cost (Euros)	% of projects within user defined ranges
Financial Indicators	FIRR (Financial Internal Rate of Return) (%)	% of projects within user defined ranges
	FNPV (Financial Net Present Value) (Euros)	% of projects within user defined ranges
	FDR (Financial Discount Rate) (%)	% of projects within user defined ranges
	WACC (Weighted Average Cost of Capital) (%)	% of projects within user defined ranges
	First year of profit (year)	% of projects within user defined ranges
	DSCR (Debt Service Coverage Ratio) (%)	% of projects within user defined ranges

TODIS Key Performance Indicators

Inland Waterways - Project Monitoring

Category	KPI	Definition
Environmental Indicators	CO2 emissions (+/- %)	% of projects within user defined ranges
	NOx emissions (+/- %)	% of projects within user defined ranges
	SO2 emission evolution (+/- %)	% of projects within user defined ranges
	Non-methane hydrocarbons (+/- %)	% of projects within user defined ranges
	Particulate matter (ppm) (+/- %)	% of projects within user defined ranges
	Noise levels along the section (+/- %)	% of projects within user defined ranges
	Climate Change Resilience	% of projects with effect to the climate change resilience of the network
	Protected Natural Areas Affected (km2)	% of projects within user defined ranges

TODIS Key Performance Indicators

Inland Waterways Ports - Project Monitoring

Category	KPI	Definition
Project Type	Eligibility for TEN-T Project	Percentage of projects per type of TEN-T eligible intervention: 1) Rail connection 2) CEMT connection 3) Clean fuels availability 4) Terminal Availability 5) RIS Deployment
TEN-T Compliance	Rail connection	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	CEMT connection	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Clean fuels availability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Terminal Availability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	RIS Deployment	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)

TODIS Key Performance Indicators

Inland Waterways Ports - Project Monitoring

Category	KPI	Definition
Project Status	Status (high level)	Percentage of projects per status category: 1) Implemented 2) On-going project (funding secured) 3) Mature project (feasibility study ready, funding secured) 4) Project under preparation
	Status (detailed)	Percentage of projects per status sub-category: 1) Project completed and put in operation 2) Works currently under execution. 3) Tender for works/design-build on-going. 4) Design/Tender Dossier for DB under preparation. 5) Tender for design on-going or about to be start. 6) Financing source identified (principle agreement reached), procedures on-going. 7) Financing source identified (principle agreement reached), procedures not-yet-started. 8) Financing source not identified. 9) Feasibility study on-going. 10) Feasibility study under tendering. 11) Financing for feasibility study secured, procurement not yet started.
IMPLEMENTED PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Total Cost (CAPEX)	% of projects within user defined ranges

TODIS Key Performance Indicators

Inland Waterways Ports - Project Monitoring

Category	KPI	Definition
Performance Indicators	Project Timeline Deviation	Completion Date Deviation in months (actual minus initial completion date)
		Construction Duration Deviation (actual/ forecasted)
	CAPEX Deviation	Actual/ Forecasted
	OPEX Deviation	Actual/ Forecasted
	Maintenance cost Deviation	Actual/ Forecasted
	EBITDA (last year)	% of projects within user defined ranges
	Revenue Deviation (if fare/toll collected)	Revenue Deviation (actual/ forecasted)
	Traffic Deviation	Port Traffic Deviation (actual/ forecasted)
		Passenger Traffic Deviation (actual/ forecasted)
		Freight (tn) Deviation (actual/ forecasted)
LIVE PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Alocated funding	Percentage of alocated funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source

TODIS Key Performance Indicators

Inland Waterways Ports - Project Monitoring

Category	KPI	Definition
Project Timeline	Tender Start Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Design Completion Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Project Completion Date Deviation	Current minus initial estimation
Project Technical Status	Pre-Feasibility Study	% of projects with/ without
	Feasibility Study	% of projects with/ without
	Concept Design	% of projects with/ without
	Preliminary Design	% of projects with/ without
	Detail Design	% of projects with/ without
	Environmental Impact Assessment	% of projects with/ without
Social Indicators	Annual Traffic Demand Growth (%)	% of projects within user defined ranges
	Modal transfer (%) (if applicable))	% of projects within user defined ranges
	Annual Accident Rate Reduction (%) (if applicable))	% of projects within user defined ranges
Economic Indicators	EIRR (Economic Internal Rate of Return) (%)	% of projects within user defined ranges
	NPV (Net Present Value) (Euros)	% of projects within user defined ranges
	SDR (Social Discount Rate) (%)	% of projects within user defined ranges
	Project Planning & Design Cost (Euros)	% of projects within user defined ranges
	Project Construction Cost (Euros)	% of projects within user defined ranges
	Total Project Cost (Euros)	% of projects within user defined ranges
Financial Indicators	FIRR (Financial Internal Rate of Return) (%)	% of projects within user defined ranges
	FNPV (Financial Net Present Value) (Euros)	% of projects within user defined ranges
	FDR (Financial Discount Rate) (%)	% of projects within user defined ranges
	WACC (Weighted Average Cost of Capital) (%)	% of projects within user defined ranges
	First year of profit (year)	% of projects within user defined ranges
	DSCR (Debt Service Coverage Ratio) (%)	% of projects within user defined ranges

TODIS Key Performance Indicators

Inland Waterways Ports - Project Monitoring

Category	KPI	Definition
Environmental Indicators	CO2 emissions (+/- %)	% of projects within user defined ranges
	NOx emissions (+/- %)	% of projects within user defined ranges
	SO2 emission evolution (+/- %)	% of projects within user defined ranges
	Non-methane hydrocarbons (+/- %)	% of projects within user defined ranges
	Particulate matter (ppm) (+/- %)	% of projects within user defined ranges
	Noise levels along the section (+/- %)	% of projects within user defined ranges
	Climate Change Resilience	% of projects with effect to the climate change resilience of the network
	Protected Natural Areas Affected (km2)	% of projects within user defined ranges

TODIS Key Performance Indicators

Seaports - Project Monitoring

Category	KPI	Definition
Project Type	Eligibility for TEN-T Project	Percentage of projects per type of TEN-T eligible intervention: 1) Rail Connection 2) Road Connection 3) IWW/ CEMT Connection 4) Clean fuels availability 5) Terminal availability 6) Waste facilities 7) VTMIS Deployment
TEN-T Compliance	Rail connection	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Road Connection	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	IWW/ CEMT Connection	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Clean fuels availability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Terminal Availability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Waste facilities	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	VTMIS Deployment	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)

TODIS Key Performance Indicators

Seaports - Project Monitoring

Category	KPI	Definition
Project Status	Status (high level)	Percentage of projects per status category: 1) Implemented 2) On-going project (funding secured) 3) Mature project (feasibility study ready, funding secured) 4) Project under preparation
	Status (detailed)	Percentage of projects per status sub-category: 1) Project completed and put in operation 2) Works currently under execution. 3) Tender for works/design-build on-going. 4) Design/Tender Dossier for DB under preparation. 5) Tender for design on-going or about to be start. 6) Financing source identified (principle agreement reached), procedures on-going. 7) Financing source identified (principle agreement reached), procedures not-yet-started. 8) Financing source not identified. 9) Feasibility study on-going. 10) Feasibility study under tendering. 11) Financing for feasibility study secured, procurement not yet started.
IMPLEMENTED PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Total Cost (CAPEX)	% of projects within user defined ranges

TODIS Key Performance Indicators

Seaports - Project Monitoring

Category	KPI	Definition
Performance Indicators	Project Timeline Deviation	Completion Date Deviation in months (actual minus initial completion date)
		Construction Duration Deviation (actual/ forecasted)
	CAPEX Deviation	Actual/ Forecasted
	OPEX Deviation	Actual/ Forecasted
	Maintenance cost Deviation	Actual/ Forecasted
	EBITDA (last year)	% of projects within user defined ranges
	Revenue Deviation (if fare/toll collected)	Revenue Deviation (actual/ forecasted)
	Traffic Deviation	Port Traffic Deviation (actual/ forecasted)
		Passenger Traffic Deviation (actual/ forecasted)
		Freight (tn) Deviation (actual/ forecasted)
LIVE PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Alocated funding	Percentage of alocated funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source

TODIS Key Performance Indicators

Seaports - Project Monitoring

Category	KPI	Definition
Project Timeline	Tender Start Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Design Completion Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Project Completion Date Deviation	Current minus initial estimation
Project Technical Status	Pre-Feasibility Study	% of projects with/ without
	Feasibility Study	% of projects with/ without
	Concept Design	% of projects with/ without
	Preliminary Design	% of projects with/ without
	Detail Design	% of projects with/ without
	Environmental Impact Assessment	% of projects with/ without
Social Indicators	Annual Traffic Demand Growth (%)	% of projects within user defined ranges
	Modal transfer (%) (if applicable))	% of projects within user defined ranges
	Annual Accident Rate Reduction (%) (if applicable))	% of projects within user defined ranges
Economic Indicators	EIRR (Economic Internal Rate of Return) (%)	% of projects within user defined ranges
	NPV (Net Present Value) (Euros)	% of projects within user defined ranges
	SDR (Social Discount Rate) (%)	% of projects within user defined ranges
	Project Planning & Design Cost (Euros)	% of projects within user defined ranges
	Project Construction Cost (Euros)	% of projects within user defined ranges
	Total Project Cost (Euros)	% of projects within user defined ranges
Financial Indicators	FIRR (Financial Internal Rate of Return) (%)	% of projects within user defined ranges
	FNPV (Financial Net Present Value) (Euros)	% of projects within user defined ranges
	FDR (Financial Discount Rate) (%)	% of projects within user defined ranges
	WACC (Weighted Average Cost of Capital) (%)	% of projects within user defined ranges
	First year of profit (year)	% of projects within user defined ranges
	DSCR (Debt Service Coverage Ratio) (%)	% of projects within user defined ranges

TODIS Key Performance Indicators

Seaports - Project Monitoring

Category	KPI	Definition
Environmental Indicators	CO2 emissions (+/- %)	% of projects within user defined ranges
	NOx emissions (+/- %)	% of projects within user defined ranges
	SO2 emission evolution (+/- %)	% of projects within user defined ranges
	Non-methane hydrocarbons (+/- %)	% of projects within user defined ranges
	Particulate matter (ppm) (+/- %)	% of projects within user defined ranges
	Noise levels along the section (+/- %)	% of projects within user defined ranges
	Climate Change Resilience	% of projects with effect to the climate change resilience of the network
	Protected Natural Areas Affected (km2)	% of projects within user defined ranges

TODIS Key Performance Indicators

Airports - Project Monitoring

Category	KPI	Definition
Project Type	Eligibility for TEN-T Project	Percentage of projects per type of TEN-T eligible intervention: 1) Rail Connection 2) Clean fuels availability 3) Terminal AvailabilityRoad Connection
TEN-T Compliance	Rail connection	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Clean fuels availability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
	Terminal Availability	Network km compliant before projects implementation (info collected from localisation data)
		Network km compliant after projects implementation (info collected from localisation data)
Project Status	Status (high level)	Percentage of projects per status category: 1) Implemented 2) On-going project (funding secured) 3) Mature project (feasibility study ready, funding secured) 4) Project under preparation
	Status (detailed)	Percentage of projects per status sub-category: 1) Project completed and put in operation 2) Works currently under execution. 3) Tender for works/design-build on-going. 4) Design/Tender Dossier for DB under preparation. 5) Tender for design on-going or about to be start. 6) Financing source identified (principle agreement reached), procedures on-going. 7) Financing source identified (principle agreement reached), procedures not-yet-started. 8) Financing source not identified. 9) Feasibility study on-going. 10) Feasibility study under tendering. 11) Financing for feasibility study secured, procurement not yet started.

TODIS Key Performance Indicators

Airports - Project Monitoring

Category	KPI	Definition
IMPLEMENTED PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Total Cost (CAPEX)	% of projects within user defined ranges
Performance Indicators	Project Timeline Deviation	Completion Date Deviation in months (actual minus initial completion date)
		Construction Duration Deviation (actual/ forecasted)
	CAPEX Deviation	Actual/ Forecasted
	OPEX Deviation	Actual/ Forecasted
	Maintenance cost Deviation	Actual/ Forecasted
	EBITDA (last year)	% of projects within user defined ranges
	Revenue Deviation (if fare/toll collected)	Revenue Deviation (actual/ forecasted)
	Traffic Deviation	Throughput Deviation (actual/ forecasted)
		Passenger Traffic Deviation (actual/ forecasted)
		Freight (tn) Deviation (actual/ forecasted)

TODIS Key Performance Indicators

Airports - Project Monitoring

Category	KPI	Definition
LIVE PROJECTS		
Project Funding	Funding Sources	Percentage of funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
	Alocated funding	Percentage of alocated funding per source: 1) National Budget 2) WB 3) EBRD 4) EIB 5) Other IFI 6) Concessions 7) EU Fund 8) Other funding source
Project Timeline	Tender Start Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Design Completion Date Deviation	(actual minus initial estimation) or (current minus initial estimation)
	Project Completion Date Deviation	Current minus initial estimation
Project Technical Status	Pre-Feasibility Study	% of projects with/ without
	Feasibility Study	% of projects with/ without
	Concept Design	% of projects with/ without
	Preliminary Design	% of projects with/ without
	Detail Design	% of projects with/ without
	Environmental Impact Assessment	% of projects with/ without
Social Indicators	Annual Traffic Demand Growth (%)	% of projects within user defined ranges
	Modal transfer (%) (if applicable))	% of projects within user defined ranges
	Annual Accident Rate Reduction (%) (if applicable))	% of projects within user defined ranges

TODIS Key Performance Indicators

Airports - Project Monitoring

Category	KPI	Definition
Economic Indicators	EIRR (Economic Internal Rate of Return) (%)	% of projects within user defined ranges
	NPV (Net Present Value) (Euros)	% of projects within user defined ranges
	SDR (Social Discount Rate) (%)	% of projects within user defined ranges
	Project Planning & Design Cost (Euros)	% of projects within user defined ranges
	Project Construction Cost (Euros)	% of projects within user defined ranges
	Total Project Cost (Euros)	% of projects within user defined ranges
Financial Indicators	FIRR (Financial Internal Rate of Return) (%)	% of projects within user defined ranges
	FNPV (Financial Net Present Value) (Euros)	% of projects within user defined ranges
	FDR (Financial Discount Rate) (%)	% of projects within user defined ranges
	WACC (Weighted Average Cost of Capital) (%)	% of projects within user defined ranges
	First year of profit (year)	% of projects within user defined ranges
	DSCR (Debt Service Coverage Ratio) (%)	% of projects within user defined ranges
Environmental Indicators	CO2 emissions (+/- %)	% of projects within user defined ranges
	NOx emissions (+/- %)	% of projects within user defined ranges
	SO2 emission evolution (+/- %)	% of projects within user defined ranges
	Non-methane hydrocarbons (+/- %)	% of projects within user defined ranges
	Particulate matter (ppm) (+/- %)	% of projects within user defined ranges
	Noise levels along the section (+/- %)	% of projects within user defined ranges
	Climate Change Resilience	% of projects with effect to the climate change resilience of the network
	Protected Natural Areas Affected (km2)	% of projects within user defined ranges