



Transport Observatory – state of play and way forward

6th Road Technical Committee meeting, 8 October 2021

Transport Observatory implementation phases



- Setting-up of the Transport Observatory is a long-term endeavour that shall be implemented gradually over few years time.
- It shall be done under a **three-stage** approach:
 - **PHASE I:** Definition of Transport Observatory's functional and technical requirements
 - **PHASE II:** Setting-up of the Transport Observatory Database/Information System
 - **PHASE III:** Development of the Transport Observatory's modelling component

Transport Observatory - Phase I



During Transport Observatory Phase I the following activities were performed:

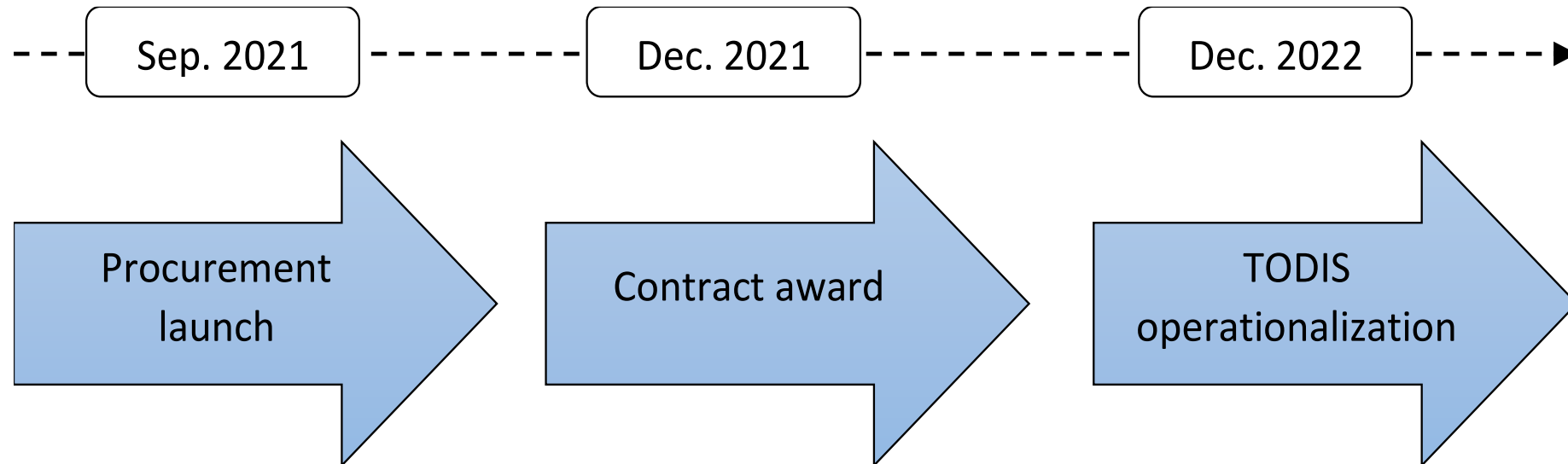
- Developing the Transport Observatory overall concept, implementation plan and budget;
- Definition of the technical and functional requirements for Transport Observatory's Database/Information System (TODIS);
- Preparation of the tender documents for TODIS procurement;

Phase I was implemented with support from a Technical Assistance contract and has been completed in September 2021.

Transport Observatory - Phase 2



- Transport Observatory Phase II covers TODIS detailed design, development and implementation including database population and users training.
- It shall be delivered through a Technical Assistance & Supply Contract, the main implementation milestones being the following:



Phase II expected outcome



Once TODIS becoming fully functional, it shall:

- Provide the relevant stakeholders with a **complex** yet **intuitive** and **user-friendly** *analysis and reporting tool* that might be used by:
 - **Regional Participants** for network analysis, problem identification, strategic decision making and internal reporting purposes;
 - **TCT Secretariat** for fulfilling its monitoring and reporting mandate;
 - **EC, Member States and International Financing Organisations** for tracking progress on TEN-T implementation and acquis transposition in Western Balkans;
 - **General public and business.**
- Improve **TEN-T data management** in the region;
- Bring “traditional” data collection to an end.

TODIS functionalities



Data analysis:

- TODIS will include multiple data interrogation, analysis and reporting features, allowing users to interrogate the database on various levels (section, node, corridor, network, Regional Participant, etc);
- TODIS shall grant users the ability to define the scope of the analysis, by selecting data categories/individual parameters/Key Performance Indicators/reference year(s).

Data sharing:

TODIS will provide multiple reporting tools supported by an interactive Graphical User Interface. Results will be delivered 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).

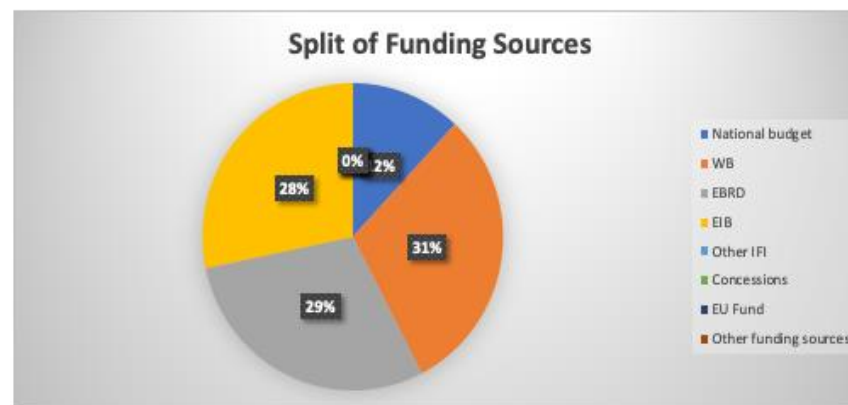
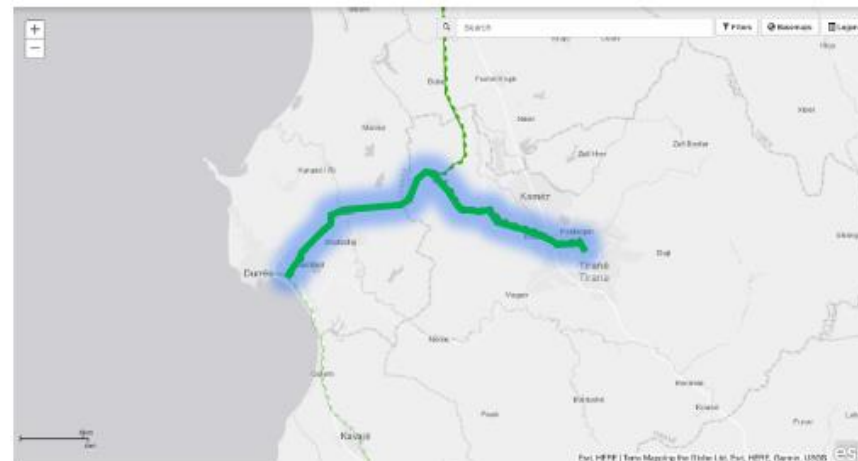
TODIS mock-ups (Project Sheet)



Albania: Project information

Parameter	Value
Regional Participant	Albania
Sector	Railways
Corridor	Mediterranean Corridor (CVIII)
Project Name	Rehabilitation of Tirana Durrës Railway Line and Construction of New Line to Rinas Branch
Status	Works Currently Under Execution
Project Owner	Albanian Railways SA

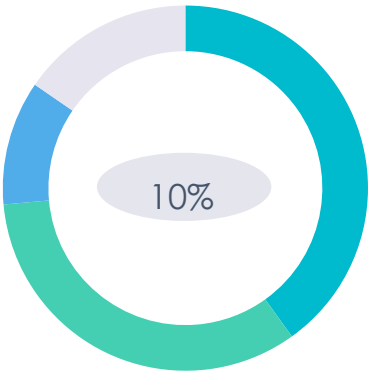
Funding Sources	Amount (EUR)	%
National Budget	14,940,000	11.9%
WB	38,235,000	30.5%
EBRD	36,755,000	29.3%
EIB	35,485,000	28.3%
Other IFI	0	0.0%
Concessions	0	0.0%
EU Fund	0	0.0%
Other funding sources	0	0.0%
Total	125,415,000	



TODIS mock-ups (Network Sheet)

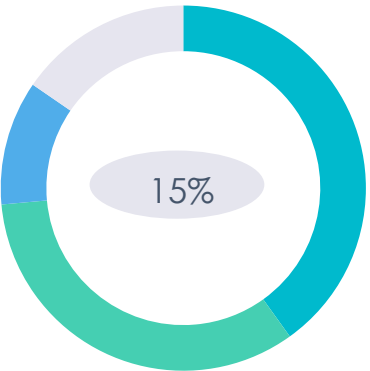


Railways: TEN-T Compliance



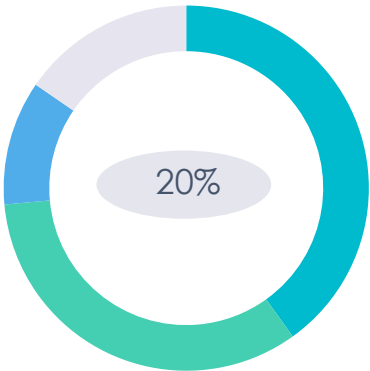
KPI PROGRESS

ELECTRIFICATION



KPI PROGRESS

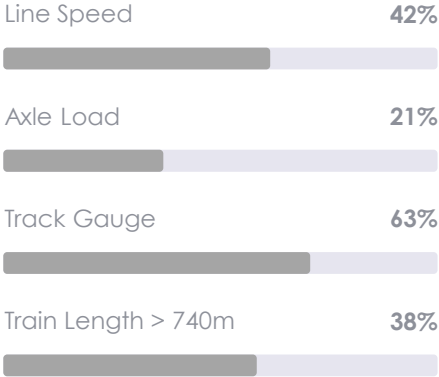
ERTMS DEPLOYMENT (GSM-R)



KPI PROGRESS

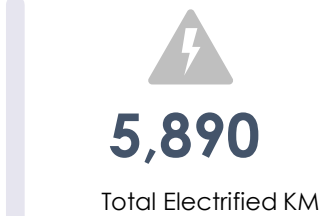
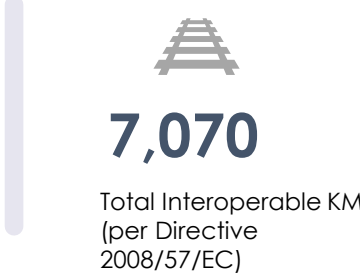
ERTMS DEPLOYMENT (ETCS)

Secondary KPIs



Network KPIs (Benchmark)

Key Performance Indicators at the network level to facilitate benchmarking of project against the wider system



TODIS mock-ups (various roads indicators)



<p>Kosovo* Core and Comprehensive Road Network TEN-T Compliant</p> <p>500km 86%</p>	<p>Motorways as % of Total Network: 15%</p> <p>Change in ITS Compliant % network KM by end of FY 2025: 20%</p> <p>Change in Tolling Directive Compliant % network KM by end of FY 2025: 90%</p>	<p>On-going ITS Compliance Projects: 05</p> <p>Allocated Budget: EUR 1,060M</p>
<p>Montenegro Core and Comprehensive Road Network TEN-T Compliant</p> <p>745km 75%</p>	<p>Motorways as % of Total Network: 45%</p> <p>Change in ITS Compliant % network KM by end of FY 2025: 20%</p> <p>Change in Tolling Directive Compliant % network KM by end of FY 2025: 90%</p>	<p>Dual Carriageway segments in operation: 48</p> <p>Dual Carriageway segments under construction: 101</p>
<p>North Macedonia Core and Comprehensive Road Network TEN-T Compliant</p> <p>1,200km 45%</p>	<p>Motorways as % of Total Network: 75%</p> <p>Change in ITS Compliant % network KM by end of FY 2025: 20%</p> <p>Change in Tolling Directive Compliant % network KM by end of FY 2025: 90%</p>	<p>% of network km requiring upgrade - Open Road: 23%</p> <p>% of network km compliant with Alternative Fuels Requirement: 57%</p>

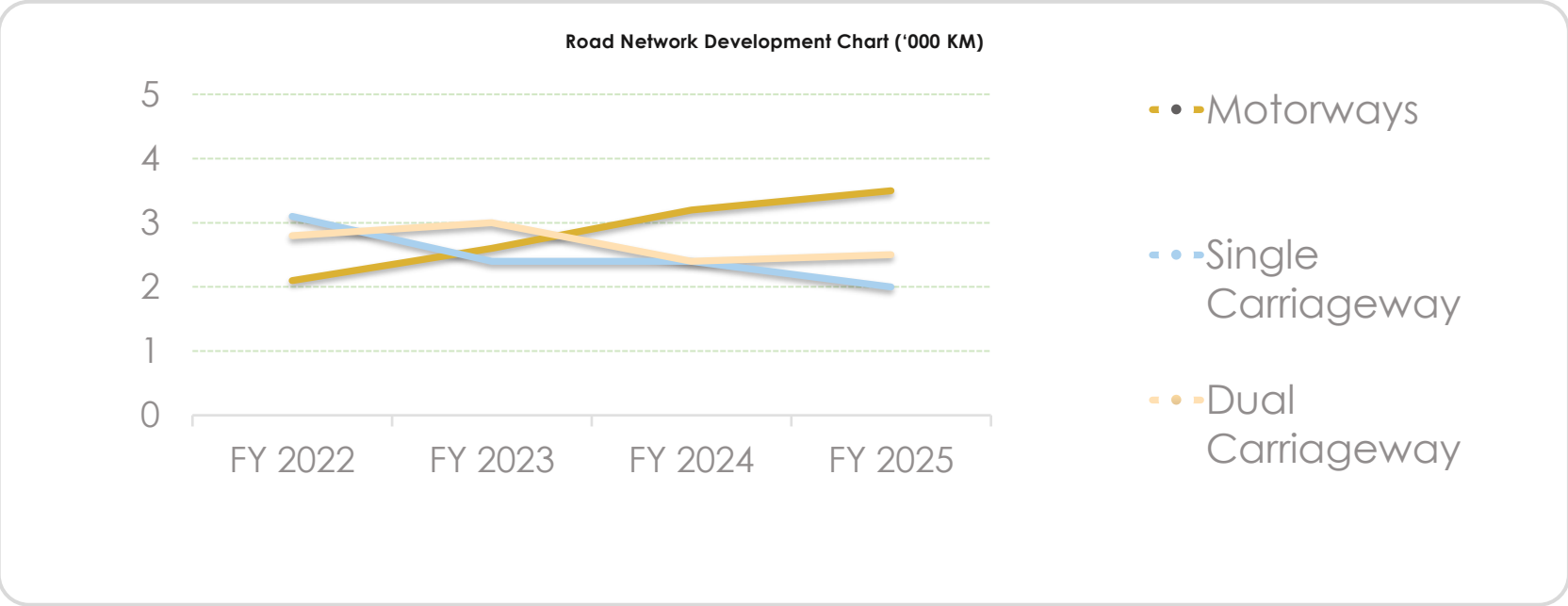
* This designation is without prejudice to positions on status and is in line with UNSCR 1244 (1999) and the ICJ Opinion on the Kosovo declaration of independence.

TODIS mock-ups (chart)



Republic of Serbia (selection of various road infrastructure indicators)

Length of Highway Requiring Rehabilitation (Open Road) - KM	230	Length of Highway with IRI < 2.84	657	Core Road Network TEN-T Compliant	81%	Construction, Commissioning & Handover	12%
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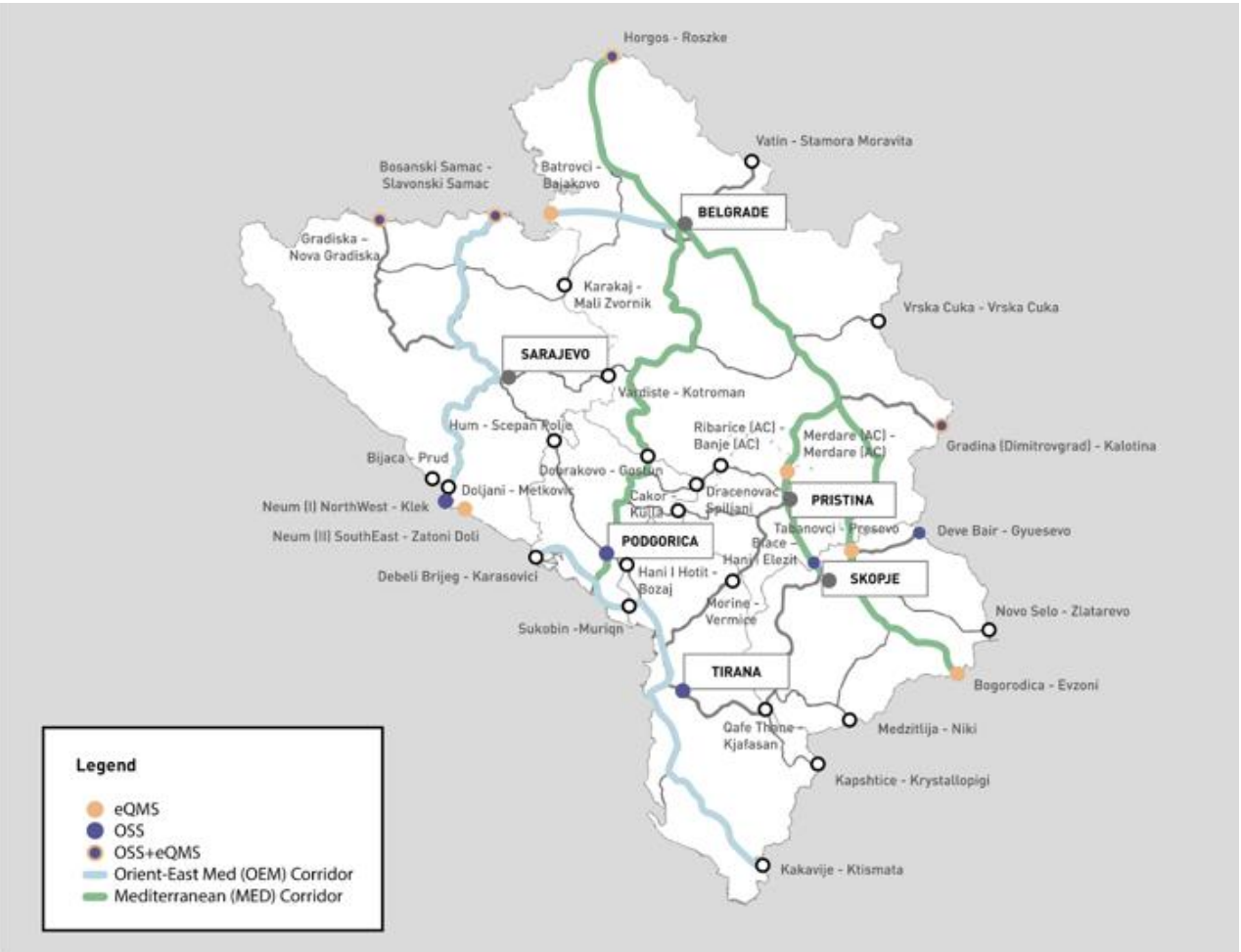


TODIS mock-ups (sectors combination)



Illustration of selected:

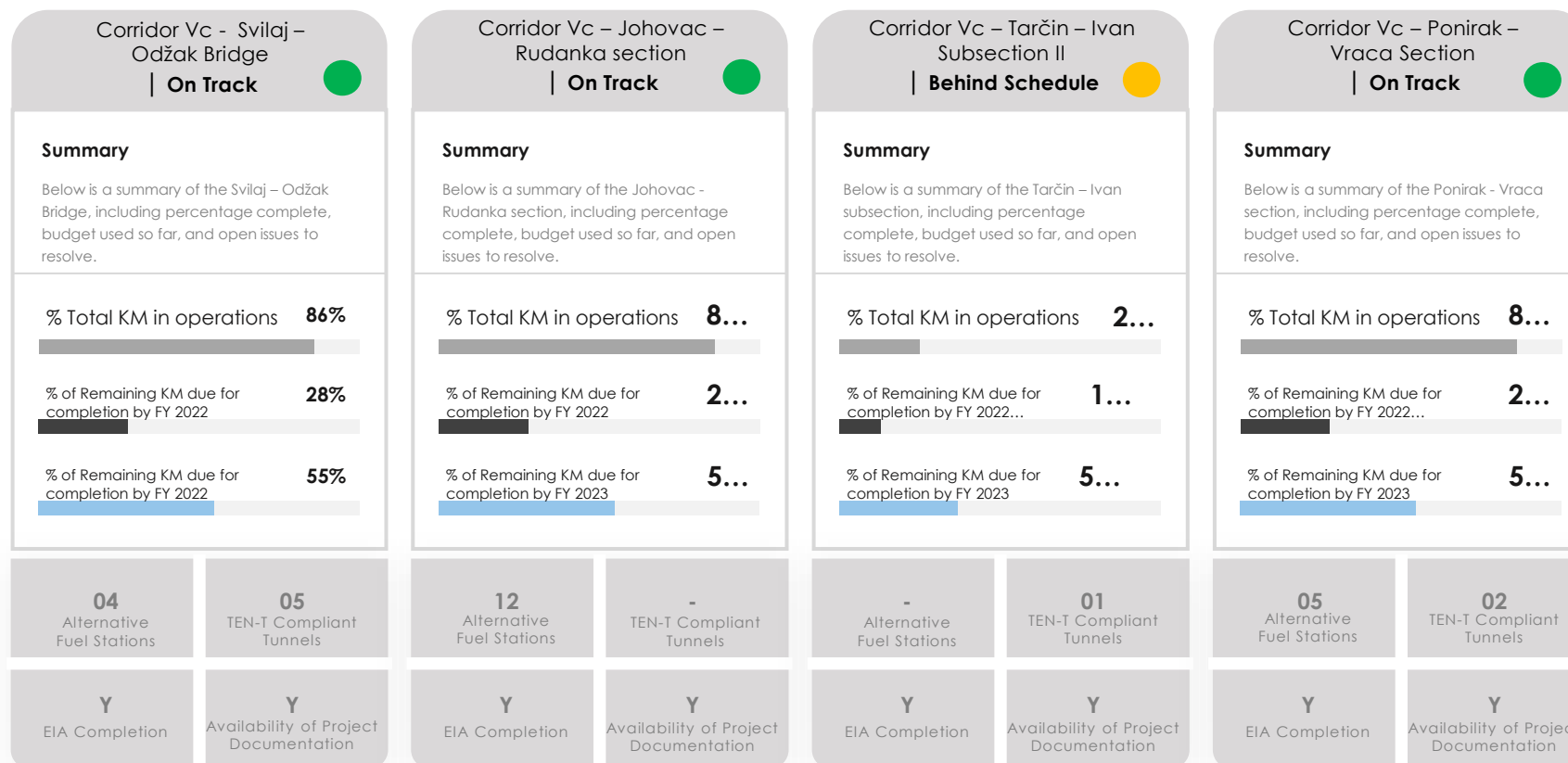
- Road Corridors
- Border Crossings with specific ITS Systems



TODIS mock-ups (road projects dashboard)



Bosnia and Herzegovina – project data



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