



**TEM:
TRANS-EUROPEAN
NORTH-SOUTH MOTORWAY
PROJECT**

Rationale - Activities - Outcomes



TEM Project

Mission & Vision

The TEM Project mission:

The TEM Project monitors the services demand and infrastructure supply relations for the TEM Backbone Network and concurrently creates standards, good practices and guidelines to tackle systemic and strategic issues related to road infrastructure management for both TEM MS and all UNECE region.

The TEM Project vision:

The TEM Project is a key partner for the UNECE and the Inland Transport Committee on road infrastructure management, thus supporting the UN and the TEM Member States in achieving the Sustainable Development Goals by implementing the strategic initiatives, which are designed and aligned with the UN sustainable development agenda



TEMSTAT map



UNITED NATIONS
ECONOMIC COMMISSION FOR EUROPE
TRANS-EUROPEAN NORTH-SOUTH MOTORWAY (TEM)
PROJECT CENTRAL OFFICE, WARSAW, POLAND



UNECE

TEM BACKBONE AND E-ROAD NETWORK
Status as of 1 January 2019

Motorway - in operation

- 4-lane motorway (2x2) or more (TEM network only)
- 4-lane motorway (2x2)
- 4-lane motorway - 2 or 3 lanes left or right
- 4-lane motorway - 2 or 3 lanes left or right

Motorway - under construction

- 4-lane motorway (2x2) or more (TEM network only)
- 4-lane motorway (2x2)
- 4-lane motorway - 2 or 3 lanes left or right
- 4-lane motorway - 2 or 3 lanes left or right

Motorway - programmed or planned

- 4-lane motorway (2x2) or more (TEM network only)
- 4-lane motorway (2x2)
- 4-lane motorway - 2 or 3 lanes left or right
- 4-lane motorway - 2 or 3 lanes left or right

E-road

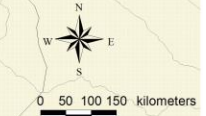
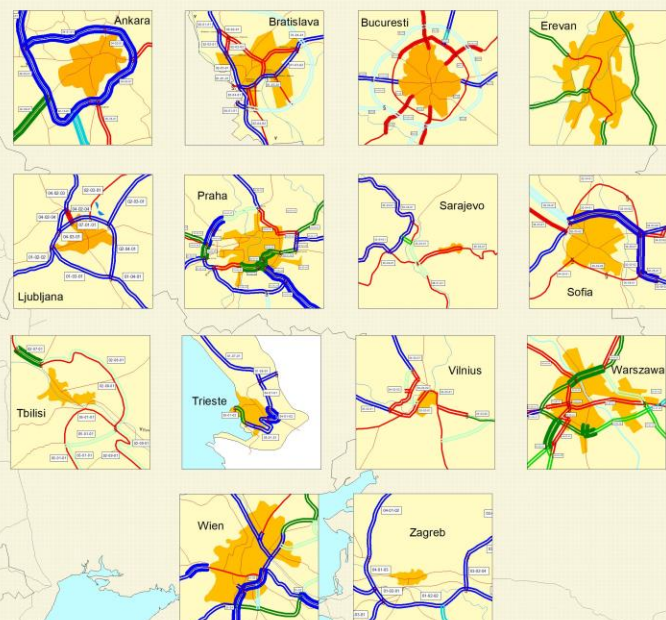
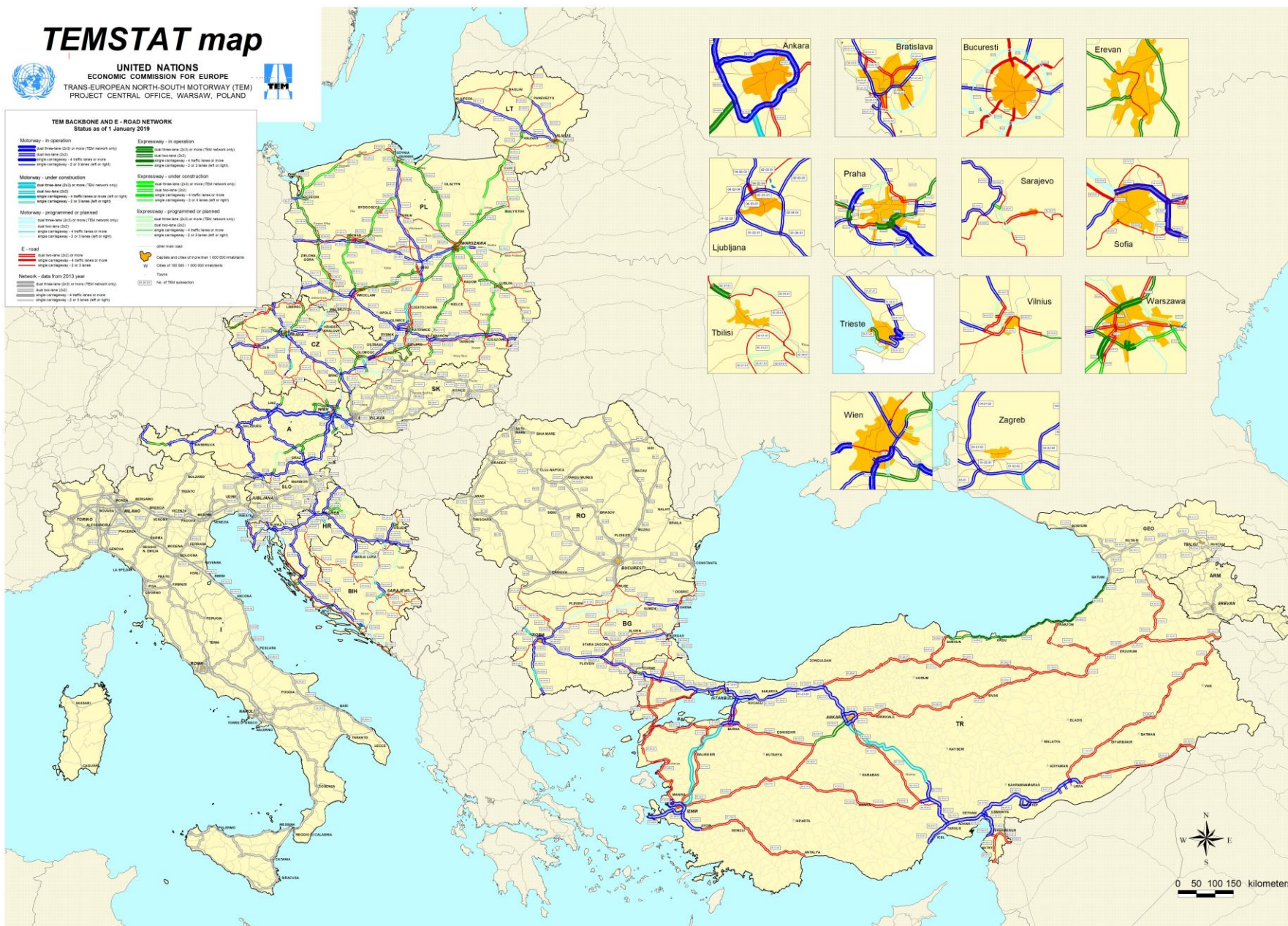
- 4-lane motorway (2x2) or more
- 4-lane motorway - 2 or 3 lanes left or right
- 4-lane motorway - 2 or 3 lanes left or right

Network - data from 2013 year

- 4-lane motorway (2x2) or more (TEM network only)
- 4-lane motorway (2x2)
- 4-lane motorway - 2 or 3 lanes left or right
- 4-lane motorway - 2 or 3 lanes left or right

Legend:

- Expressway - in operation
- Expressway - under construction
- Expressway - programmed or planned
- Capital and cities of over 1 000 000 inhabitants
- Cities of 500 000 - 1 000 000 inhabitants
- Towns
- No. of TEM subsection



TEM Project

The aim

- The aim of the Trans-European North-South Motorway (TEM) Project is to provide appropriate assistance to the TEM participating Governments in improving of public service delivery through:
 - Developing and managing of the TEM network
 - Facilitating road traffic
 - Improving quality and efficiency of transport infrastructure and operations
 - Assisting in the integration process of transport infrastructure systems

STRENGTHENING CAPACITIES OF MEMBER COUNTRIES IN:

- NETWORK DEVELOPMENT
- OPERATIONAL PROFICIENCY IN INFRASTRUCTURE MANAGEMENT
- RESPONSIVENESS TO THE TRENDS

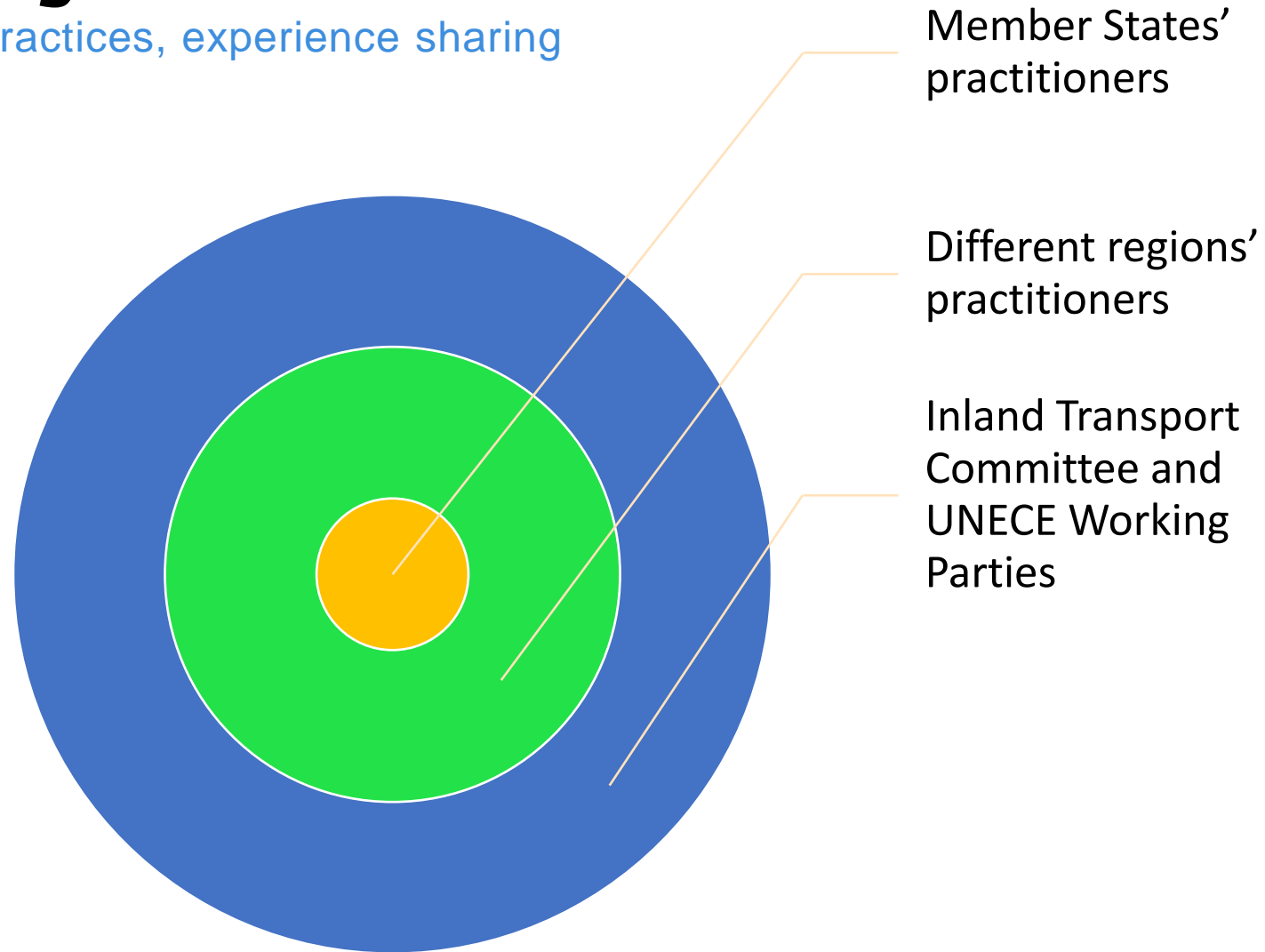
Preparation of reports based on the organised workshops with topics relevant for the sustainable development agenda

Cooperation, best practice and experience sharing with UNECE Working Parties and external partners (Highway Engineering Exchange Program)



TEM Project

Cooperation, best practices, experience sharing



TEM Project

Recent publications

TITLE	SCOPE	IMPACT
<p>BUSINESS MODELS FOR ROAD SECTOR/TEM NETWORK: CONSIDERATIONS AND RECOMMENDATIONS</p> <p>https://unece.org/info/Transport/TEM-and-TER/pub/356466</p>	<p>Review of the legal and organisational solutions, governance models and financing mechanisms of road sectors within TEM Members</p>	<ul style="list-style-type: none"> • Enables reforms of the road sectors and road authorities • Facilitates ensuring of an adequate financing mechanisms • Improves multi-service delivery
TITLE	SCOPE	IMPACT
<p>TOOLS FOR ASSET MANAGEMENT: TEM RECOMMENDATIONS FOR ROAD OPERATORS</p> <p>https://unece.org/info/Transport/TEM-and-TER/pub/356467</p>	<p>Definitions of asset management process, system and tools for the road authorities. Relations between tools and their alignment with the value creation process</p>	<ul style="list-style-type: none"> • Strengthens capacity of road authorities in RAMS definition • Decrease costs of RAMS implementation • Improves customer-oriented and data-based management

TEM Project

Recent publications

TITLE	SCOPE	IMPACT
<p>BIM FOR ROAD INFRASTRUCTURE: TEM REQUIREMENTS AND RECOMMENDATIONS</p> <p>https://unece.org/info/Transport/TEM-and-TER/pub/356919</p>	<p>Improved data management and awareness of available information technologies and solutions accompanied by the examples from TEM member countries</p>	<ul style="list-style-type: none"> • Improves capacity of road authorities' Staff • Provides rationale for BIM • Decrease costs of IT resources development and maintenance
TITLE	SCOPE	IMPACT
<p>SAFETY STANDARDS IN WORK ZONES</p> <p>To be published</p>	<p>Guidelines on work zones safety along with literature review of the most relevant standards and examples of application from TEM Member States</p>	<ul style="list-style-type: none"> • Strengthens capacity of road authorities RISM • Decrease internal and external costs of road authorities • Improves safety level for the road users and employees

TEM Project

Upcoming publications

DATA MANAGEMENT IN ROAD TRANSPORT INFRASTRUCTURE

Overall road operators' processes aligned with the current and future technologies which may support level of services, appropriateness and automation of processes related to both supply and demand management

The report presents:

- International state of the art. In terms of data management
- Examples of best practices
- Identification of current situation in TEM MS
- Comprehensive glossary

IMPACT:

- Improvement of supply and demand management processes
- Improvement of planning
- Improvement of projects delivery
- Decrease of costs of implementation

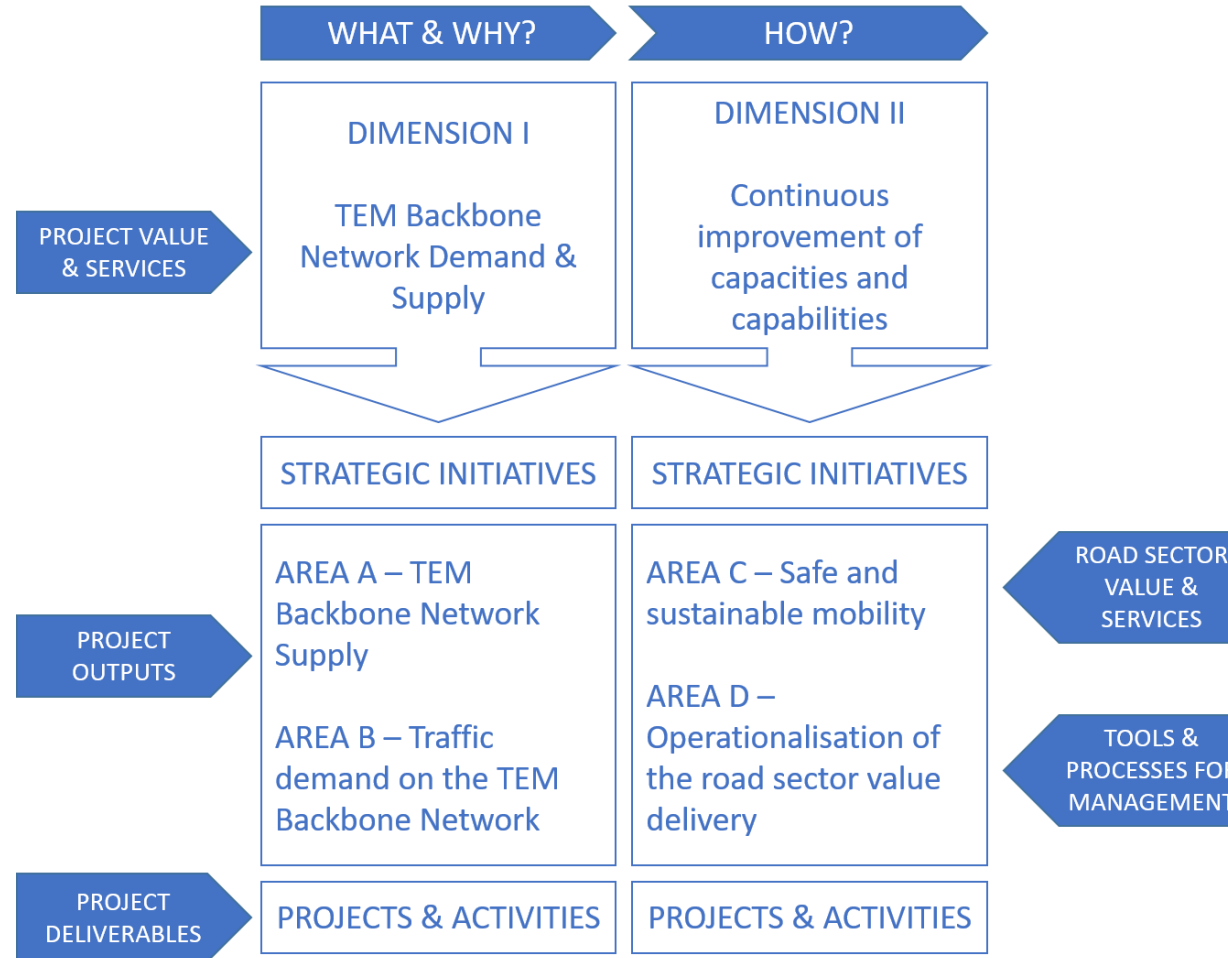
STATUS:

- Sent for publication



TEM Project

TEM Strategic Plan 2022-2026



TEM Project

TEM Strategic Plan 2022-2026

Area A:

Information in respect to the current development of the TEM Backbone Network and development forecasts

Area B:

Information in respect to the current and forecasted traffic demand on the TEM Backbone Network for fostering regional integration

Area C:

- Contribution to the UN legal instruments in terms of the road safety
- Improvement of the effectiveness and efficiency of the decision-making processes by inclusion of the safety and environmental risks
- Impact of the infrastructure providers on mobility



Area D:

- Increase of the effectiveness and efficiency by smarter Asset Management Information Systems
- Ensuring appropriate human resources for the road sector organisation in the context of technologies development



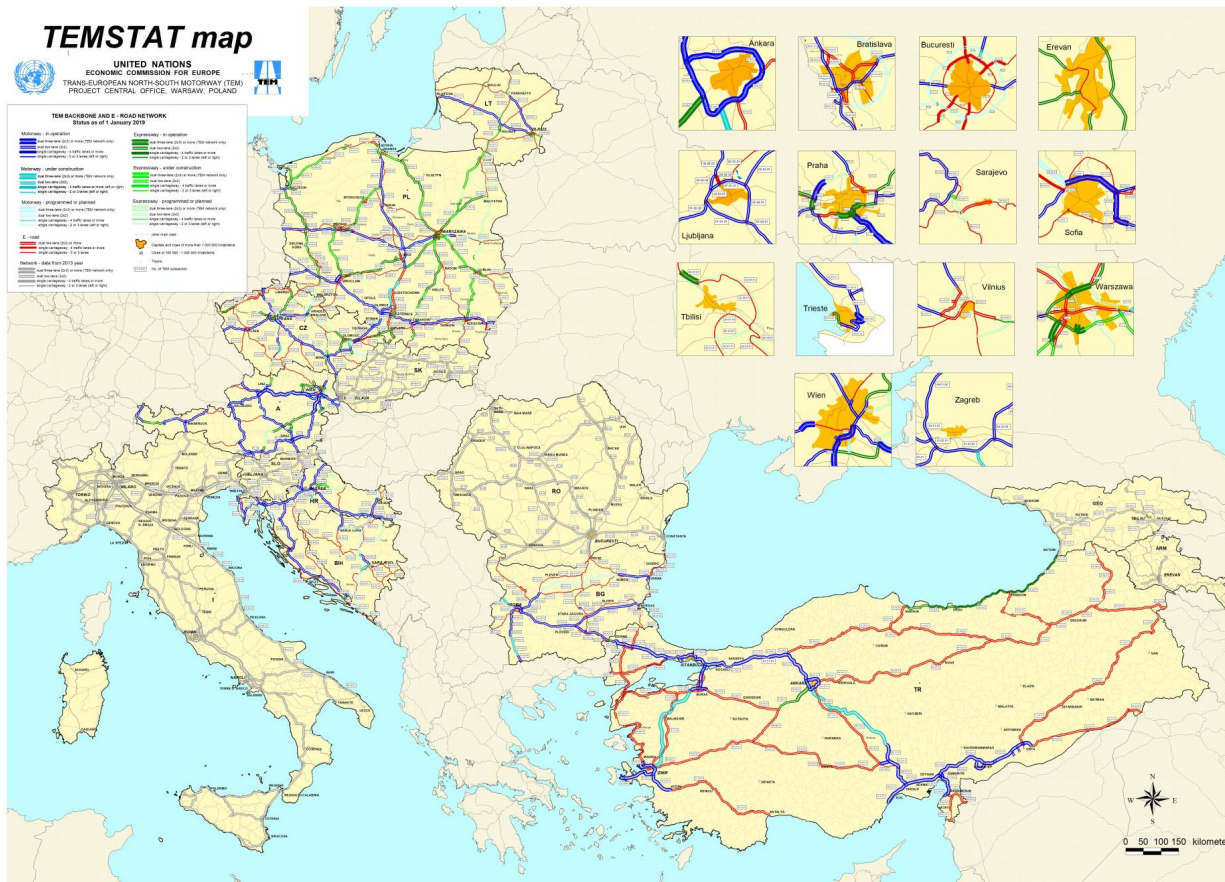
TEM Project

Current works

REPORT on
ROAD SAFETY AUDIT
and ROAD SAFETY
INSPECTION

- Special report for the UNECE Working Party on Road Transport – SC1
- Rationale for the RSA and RSI
- Benchmarking analysis within the UNECE region in terms of implementation of RSA and RSI procedures
- Impact analysis of the RSA and RSI implementation on the outcomes of the Road Safety Management
- Review of the regulations and legislation in respect of the RISM in different regions
- Possibly commencement of the works to amend the European Agreement on main international traffic arteries (AGR)





GENERAL BENEFITS:

- ✓ NETWORK DEVELOPMENT
 - BETTER CONNECTIVITY – BETTER ECONOMIC DEVELOPMENT
- ✓ OPERATIONAL PROFICIENCY IN INFRASTRUCTURE MANAGEMENT
 - GREATER PROFICIENCY – SMARTER DECISIONS
- ✓ RESPONSIVENESS TO THE TRENDS
 - GREATER AWARENESS – GREATER READINESS



Thank you for your attention

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TRANSPORT

