INTERNATIONAL ROAD SAFETY CONFERENCE
"ON THE ROAD TO VISION ZERO"

14MAY, 2025, Hyatt Regency Sofia, Sofia

BULGARIAN BRANCH ASSOCIATION
ROAD SAFETY

UNECE

UNECE TEM Project
Trans-European MotorwaysProject

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CEDR Conference of European Directors of Roads

MINISTRY OF REGIONAL DEVELOPMENT AND PUBLIC WORKS
ROAD INFRASTRUCTURE AGENCY

Trans-European North-South Motorway (TEM) Project

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- The UNECE Trans-European Motorways (TEM) Project is a sub-regional cooperation among Central, Eastern and South Eastern European countries
- TEM was established in 1977 with initial financial support provided by the UNDP and with UNECE as executing agency
- TEM Project is bringing together 20 European countries
- TEM is supporting cooperation and exchange of the best practices on road transport infrastructure development along the backbone of the Pan-European Road Corridors in CEE.
- TEM Project support UNECE in achieving Sustainable Developments Goals in transport sector.

How do the TEM Project support “Vision Zero”

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- **key partner for UNECE** and the Inland Transport Committee on road infrastructure management
- **support UN and TEM MS** in achieving the Sustainable Development Goals.
- monitors the services demand and infrastructure supply relations for the TEM Backbone Network
- creates **standards** and **guidelines** based on best practices to tackle systemic and strategic issues related to road infrastructure management
- ensure efficient exchange of proven technologies and solution

Report on Business model for road sector

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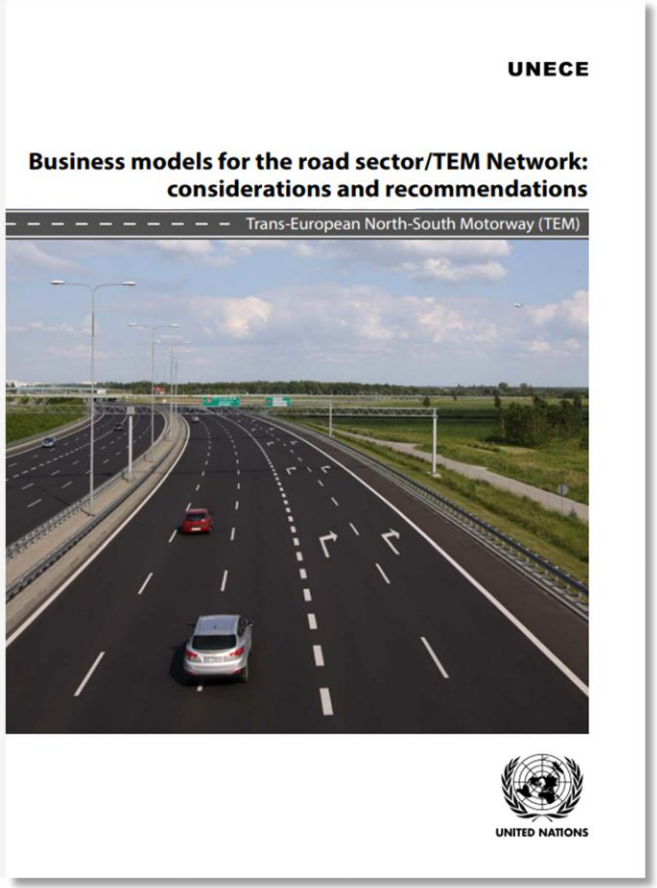
The report consists a review of the legal and organizational solutions comprising the models of governance and financing of public roads.

The report covers:

- review of revenue financing of the road infrastructure,
- review of practices and organizational solutions in the context of national road authorities,
- financing methods of road authorities, including PPP,
- review of practices of the toll collection systems.



Report on Tools for asset management

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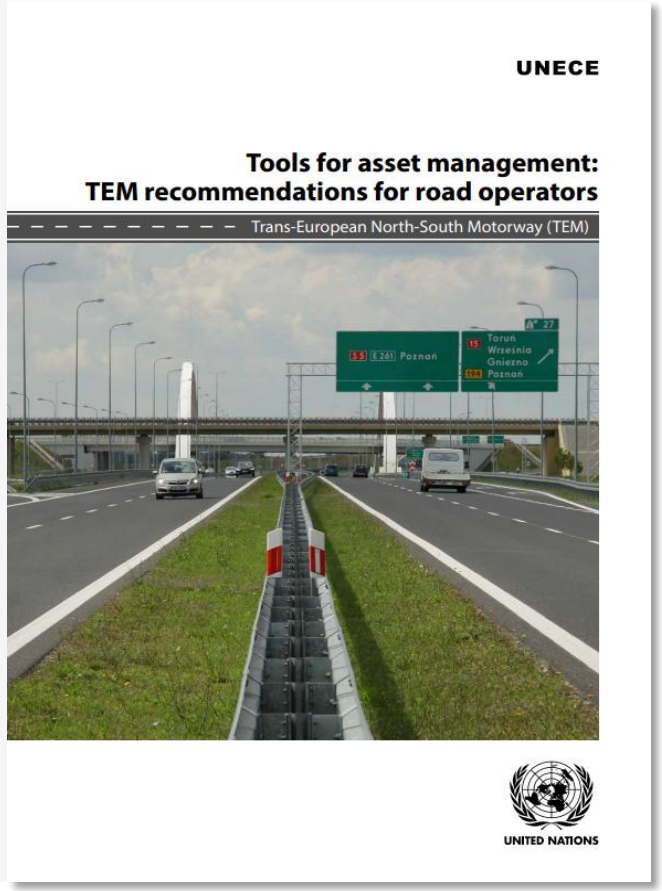
Asset management system is set of procedures, processes, competencies and systems (including IT tools) through which road authority is able to realize its value creation process.

- The report covers:
  - definitions of asset management, asset management system and asset management tools adjusted for the road sector authorities,
  - relations between tools and aligns them with the value creation process, to provide best possible level of service to road users
  - high-level assessment of TEM region maturity within road asset management,
  - recommendations for further works to ensure improvement of service delivery by the TEM backbone network.



Report on Building Information Modelling (BIM) for road infrastructure

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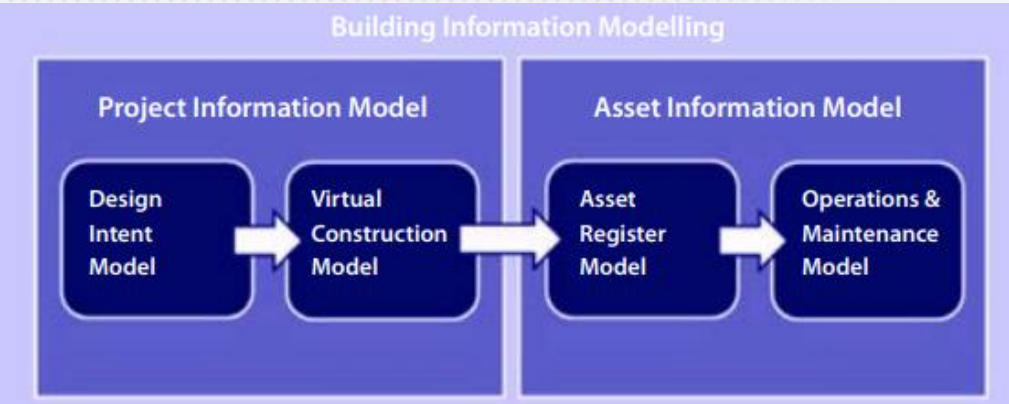
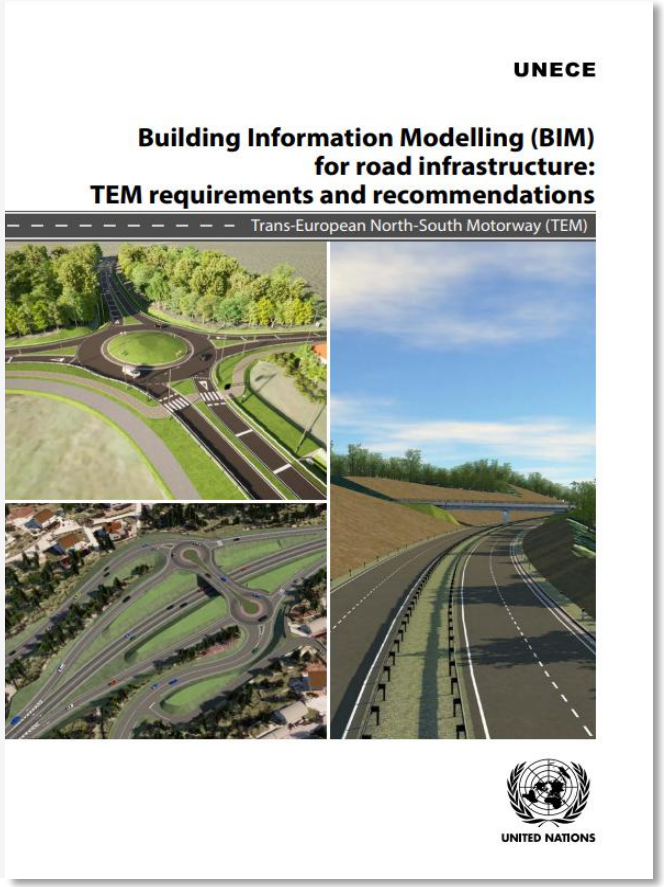
- BIM emphasizes the integration of processes – specifically the creation and distribution of digital information by all stakeholders throughout the life cycle of the infrastructure asset.
- The report is providing relevant information for the application of BIM approaches and technology in the road infrastructure.





Report on Guidelines on Work Zone Safety

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- The report presents an overview of the legal and technical solutions applied by individual states in the context of work zones and creating recommendations.
- It discusses:
  - What elements of the traffic management system and road infrastructure are used and/or required in different states in terms of work zones safety,
  - Do the solutions used in different states differ from each other,
  - What are the legal or operational tools used to ensure compliance with the requirements in the context of works zones safety standards.

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Report on Data management in road transport infrastructure

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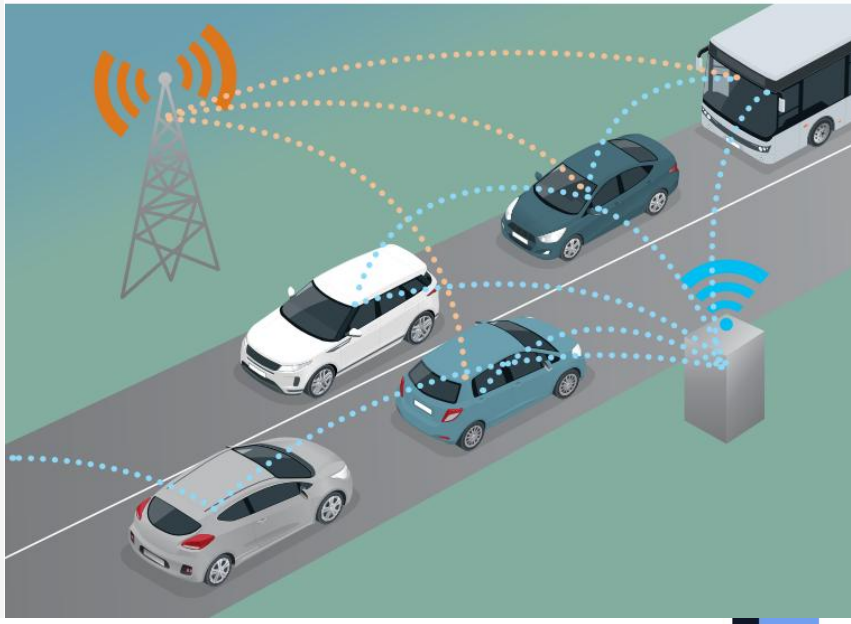
- The report presents how road infrastructure operators are facing currently major changes that are based on new technologies such as **e-call**, connected and automated driving (CAD), cooperative ITS (C-ITS), Vehicle-to-Vehicle(V2V) and Vehicle to Infrastructure (V2I) communications, **Virtual Traffic Lights/Signs**.
- Report discusses aspects of new technologies such as CAD vehicles, internet of things (IoT) and 5G technologies and how data management will become even more important for road operators. Without quality and accurate data road safety and customer services cannot be provided, which is main mission of road operators. One of solution that is needed to face challenges in near future is **Big data approach**.

C-ITS offers drivers the right information at the right time, based on where they are and the situations they encounter.



TEM Project & Road Safety in the future?

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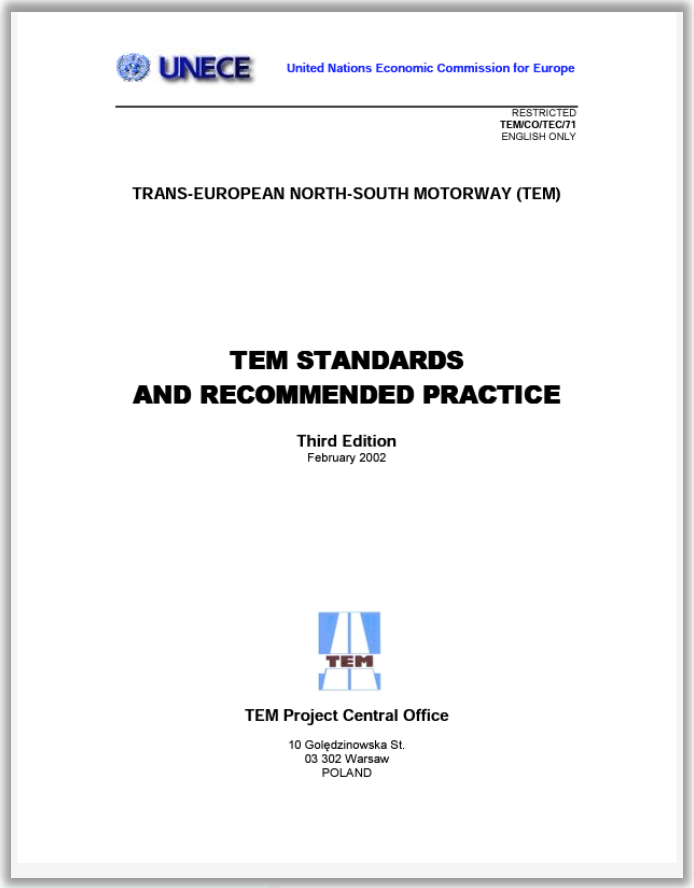
- Contribution to the UN regulations based on the TEM Member States and international best practice in respect to the Road Safety Audits and Road Safety Inspections
- Ugrade European Agreement on Main International Traffic Arteries (AGR) with Road Infrastructure Safety Management procedures
- Report on the managing of the climate change risks in the road infrastructure sector together with Group of Experts on Climate Change Impact (WP.5/GE.3)
- Cooperation with the TER Project on current practice or road and rails network planning and experiences in multimodal corridor planning
- Contribution to the UNECE Working Parties - Working Party on Road Transport (SC1)
- Follow best practice in updating documents - TEM STANDARDS AND RECOMMENDED PRATICE with goal to bring it on wider legislative level
- Road Safety Audit and Road Safety Inspection - Analysis of the current practices and tools in the TEM region countries and recommendations


UNECE United Nations Economic Commission for Europe

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TRANS-EUROPEAN NORTH-SOUTH MOTORWAY (TEM)

TEM STANDARDS AND RECOMMENDED PRACTICE

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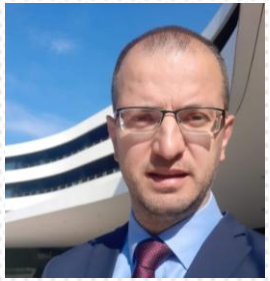

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