



**UNECE**

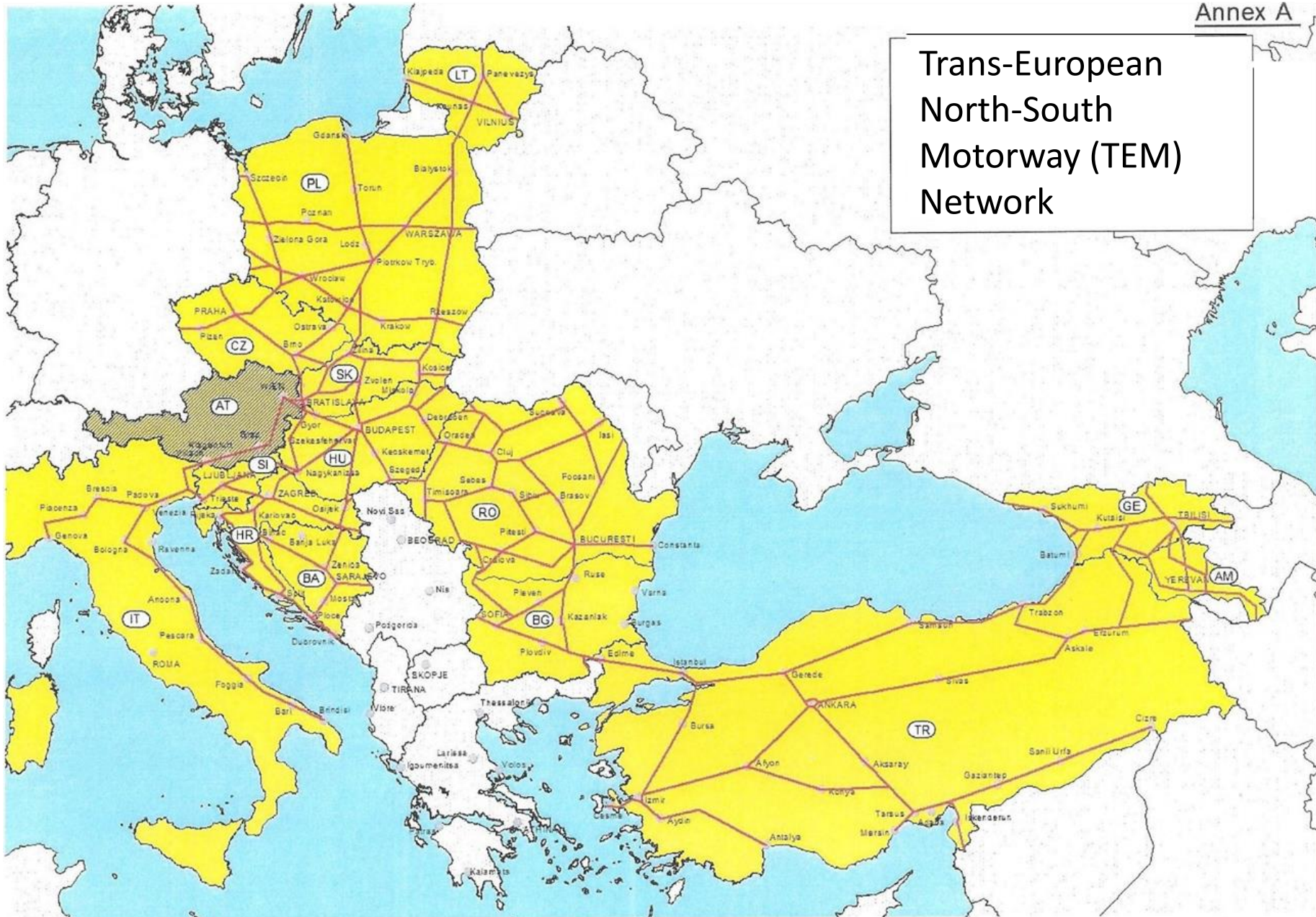
TRANS-EUROPEAN NORTH-SOUTH  
MOTORWAY (TEM)

**HISTORY – GOALS – STRATEGY 2021**

# History of TEM Project

- Established:
  - 1977
- Purpose:
  - Regional cooperation initiative for the Central and Eastern European Countries
- Objectives:
  - To facilitate road traffic in Europe
  - To improve the quality and efficiency of transport operations
  - To balance gaps and disparities between motorway networks
  - To assist the integration process of transport infrastructure
- Legacy:
  - TEM Master Plan (existing and planned investments), 2011
  - TEM Standards and Recommended Practice (design, construction, maintenance), 2002

Trans-European  
North-South  
Motorway (TEM)  
Network



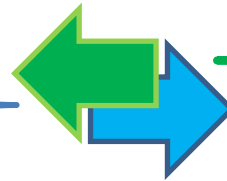
TRANS-EUROPEAN NORTH-SOUTH MOTORWAY (TEM)

# UN Sustainable Development Goals (TEM perspective)

- Essential:
  - G.3.: Good health and well-being
  - G.7.: Affordable and clean energy
  - G.9.: Industry, Innovation and Infrastructure
  - G.10.: Reduced inequalities
  - G.12.: Responsible production and consumption
  - G.13.: Climate action
  - G.15.: Life on land
- Complementary:
  - G.6.: Clean water and sanitation
  - G.8.: Decent work and economic growth
  - G.11.: Sustainable cities and communities
  - G.16.: Peace, justice and strong institutions

# Trends in economy & transportation

- Electrification
- Sharing-economy
- Automation



# TEM Project Mission & Vision

- **Mission:**

- The TEM Project constitutes a forum for cooperation between the governments of TEM MS, which **creates standards, good practices and guidelines for systemic and strategic issues related to road infrastructure management**. In its activities the TEM Project takes the perspective of national government administrations, and focuses on the issue of sustainable development

- **Vision:**

- The TEM Project aims at obtaining the role of a **substantive partner** for the UNECE and the Inland Transport Committee on road infrastructure management, thus **supporting the UN and TEM MS** in achieving the sustainable development goals by implementing the Project strategic initiatives



# SUSTAINABLE DEVELOPMENT GOALS



## TEM Project value proposition

I. TEM project supports UNECE and Inland Transport Committee in achieving the goals of sustainable development (the so-called SDGs) on issues related to the management of road infrastructure

**TEM PROJECT**

II. TEM Project will interpret and translate the SDGs into strategic initiatives related to the key issues of the management of road infrastructure

## Criteria for selection of strategic initiatives in the TEM Project

Common interests of member countries

**SYSTEMS AND SOLUTION MODELS**

**EFFICIENCY OF PUBLIC SERVICES**

**PRAGMATISM OF RESULTS**



# Systemic & strategic issues

## Value chain processes

- Improvement of **programming and planning** of transportation network extension and development
- Enhancement **designing** of roads, superstructures and facilities
- Intensification of cooperation in the field of roads **construction**
- Improvement of **asset management**
- Cooperation and knowledge exchange within **traffic management, ITS and C-ITS** issues
- Enhancement of **safety and security** management
- **Environmental impact** management
- Initiation of **data management** and facilitation of **mobility** management
- Knowledge exchange and assessment of used **business models and contracts** for above activities
- Comparison of **organization** of road/transport authorities
- Analysis and assessment of different **financing sources and methods**

# Immediate objectives

1. Assessment and improvement of environmental impact management
2. Analysis and comparison of different organizational approaches for roads/transport authorities
3. Analysis and assessment of different financial sources and methods
4. Improvement of asset management and initiation of data and mobility management
5. Usage of IT technologies within designing, constructing and maintaining of roads
6. Improvement of road safety management

# Strategic initiatives

- Environmental protection (Immediate Objective no. 1)
- Organization and financing of the roads and motorways (Immediate Objectives no. 2 and no. 3)
- Information systems for the management of the road infrastructure (Immediate Objectives no. 4)
- Innovations in road infrastructure management (Immediate Objective no. 5)
- Road safety (Immediate objective no. 6)



		2017	2018	2019	2020	2021
<b>Area A - Environmental protection</b>						
A.1. - Evaluation of efficiency of the applied solutions for the protection of the environment - the methodology / measurement standards.	workshops		*	*		
	report		*	*		
A.2. - Development of standards for road equipment in the context of environmental protection.	workshops				*	*
	report				*	*
<b>Area B - Organization and financing of the roads and motorways</b>						
B.1. - Functioning and financing of the national road infrastructure management – solutions used in different states.	workshops	*				
	report	*				
B.2. - Evaluation of the efficiency of toll collection system - evaluation methodology.	workshops				*	
	report			*	*	
B.3. - Conditions for creating an efficient PPP in the area of development and maintenance of roads.	workshops		*	*		
	report		*	*		
<b>Area C - Information systems for the management of the road infrastructure</b>						
C.1. - Maintenance standards of roads and highways.	workshops	*		*		
	report	*		*		
C.2. - Measurement, collection and management of data in the management of road infrastructure.	workshops				*	*
	report				*	*
C.3. - Development of a standard catalog of public services and model architecture of information systems in the management of road infrastructure.	workshops		*	*		
	report		*	*		
<b>Area D - Innovations in road infrastructure management</b>						
D.1. - Use of alternative methods of energy production in the management of road infrastructure.	workshops					*
	report					*
D.2. - BIM Approach (Building Information Modeling) in the context of the needs of the government road administration – analysis of the development of methodology and examples of implementation of the BIM approach in the government administration.	workshops				*	
	report				*	
<b>Area E - Road safety</b>						
E.1. - Evaluation of efficiency of the applied solutions for the road safety - the methodology / measurement standards.	workshops				*	*
	report				*	*
E.2. - Safety standards in work zones.	workshops	*				
	report	*				

**TRENDS**

**RELIABILITY**

**CONSCIOUS MANAGEMENT OF VALUE CHAIN**

**EFFICIENCY & EFFECTIVENESS**

**DATA MANAGEMENT**