



## **1<sup>st</sup> Expert Group Meeting on Developing Euro – Asian Transport Linkages**

# **Introduction of the TEM and TER Projects and Networks**



## **TER PROJECT**

**By Mr. Michalis P. Adamantiadis, Regional Adviser**



# Content

- **Background**
- **Structure**
- **Achievements**
- **TEM and TER Networks**
- **Master Plans**
- **Conclusions**



## **Background TEM**

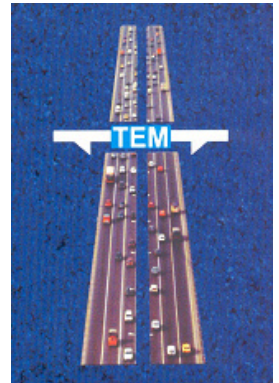
**Founded in 1977**

**To assist construction, management and operation of a quality road network**

**To assist covering existing gaps and facilitate road transport operations**

**To secure road users safety standards and comfortable driving conditions**

**To assist European integration and development**





# Background TER



**TER PROJECT**

**Founded in 1990**

**To assist the development of coherent efficient rail and combined transport systems**

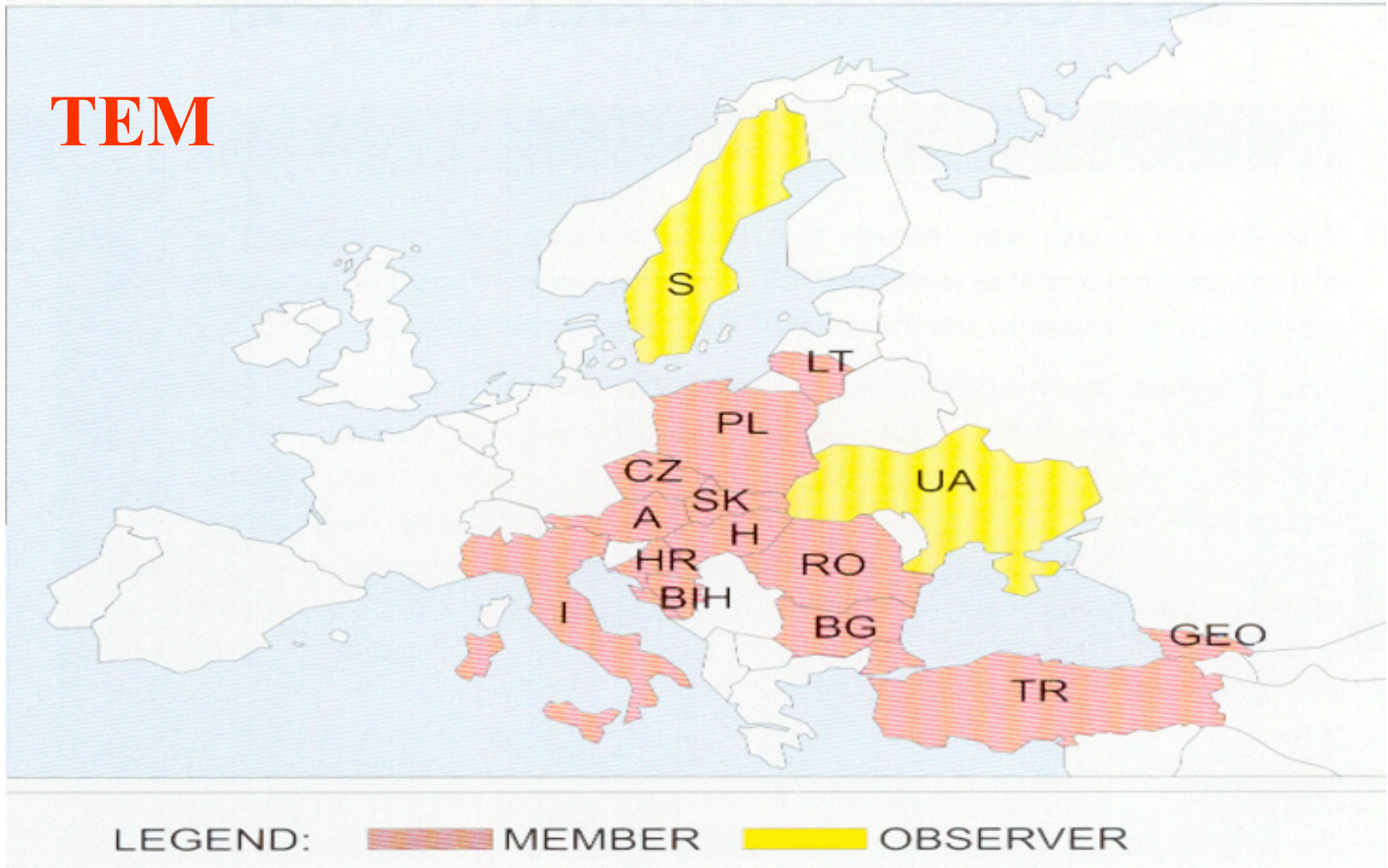
**To improvement of quality and efficiency of international rail and combined transport operations in Europe**

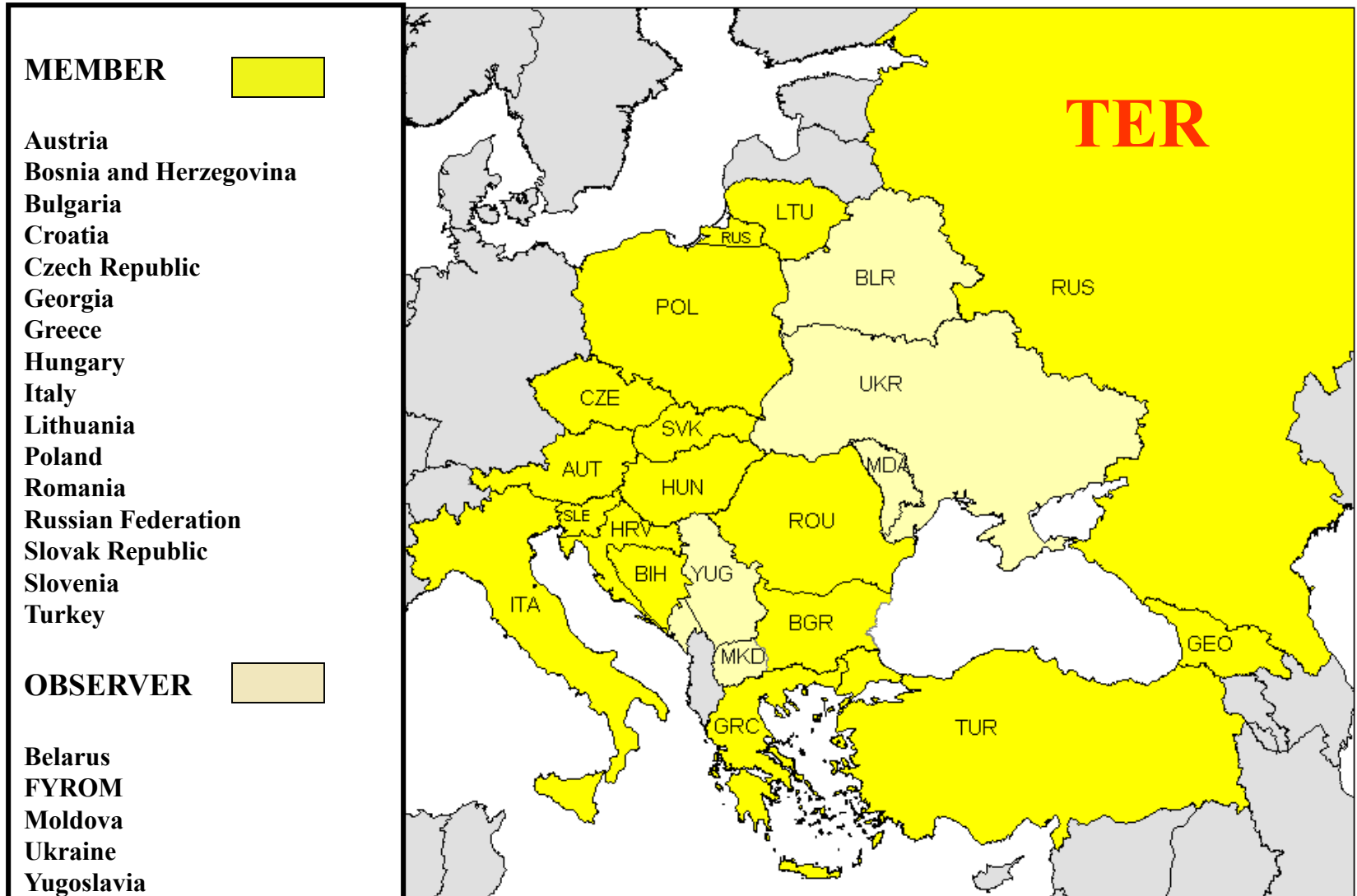
**To assist in the alleviation of congestion and reduction of environment and safety problems in major national and international transport networks in Europe**

**To assist European integration and development**



# TEM







## **Structure TEM - TER**

**Under the UNECE -acting as executing Agency**

**Self financed by Member countries**

**Trust Fund**

**Steering Committee**

**National coordinators**

**Project central office**

**Project Manager and Staff**



## **TEM Achievements**

- ▣ **The establishment and assistance in construction of TEM Network in extend of 24,000 Km**
- ▣ **Elaboration of many studies**
- ▣ **Identification of priority needs, bottlenecks and missing links and New ways of project financing**
- ▣ **Harmonization of standards and technical parameters through issue of many technical documents** (3<sup>rd</sup> Edition of TEM Standard and recommended practices)
- ▣ **Collection processing and updating of uniform data on TEM Network**
- ▣ **Dissemination of know-how and expertise**





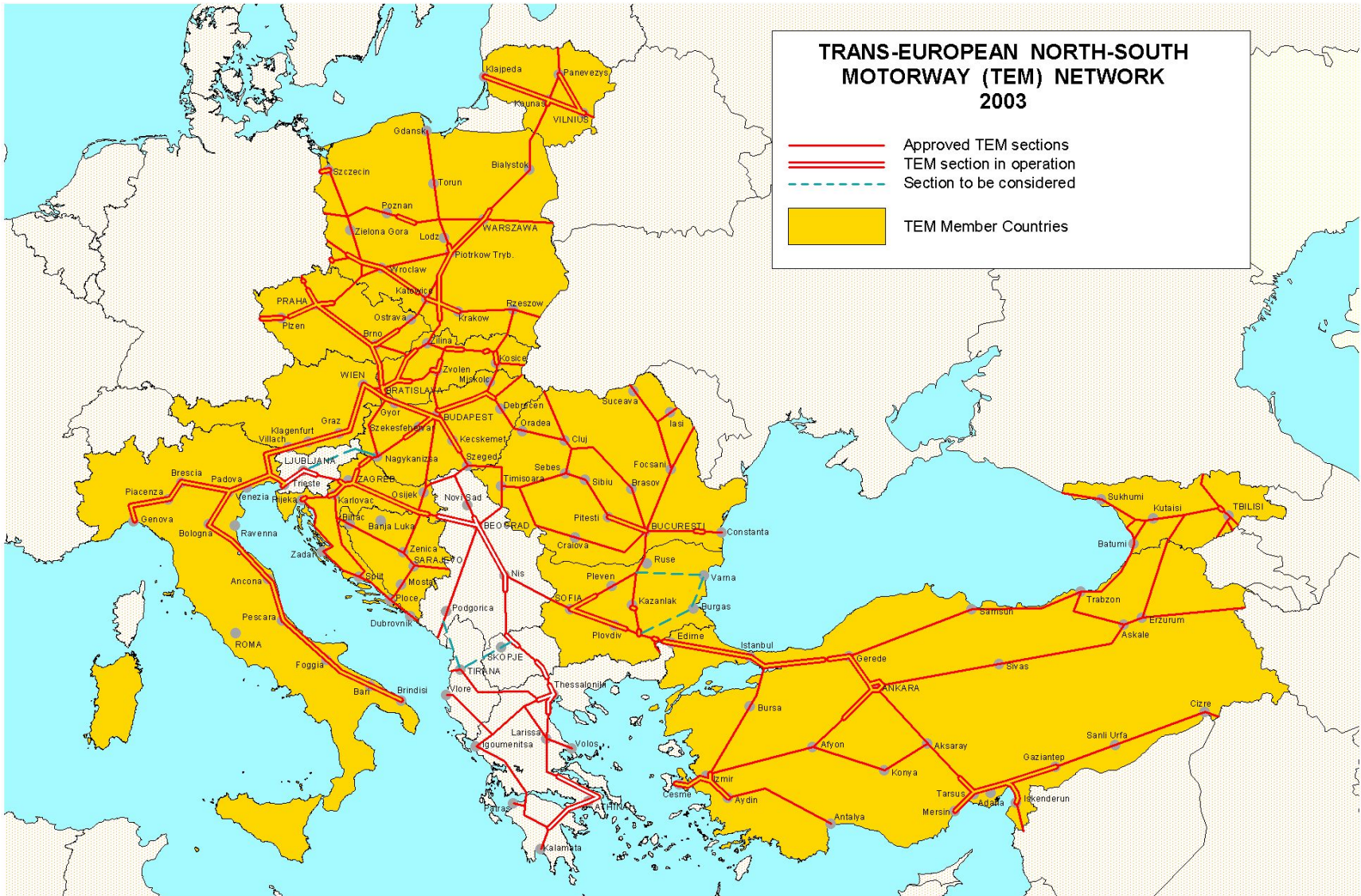
## **TER Achievements**

- ▣ **Elaboration of many studies**
- ▣ **Identification of priority needs, bottlenecks and missing links and New ways of project financing**
- ▣ **Publication of many technical documents, guidelines, recommendations (TER standards)**
- ▣ **Collection processing and updating of uniform data on TER Network**
- ▣ **Dissemination of know-how and expertise**
- ▣ **Harmonization of border crossing procedures**



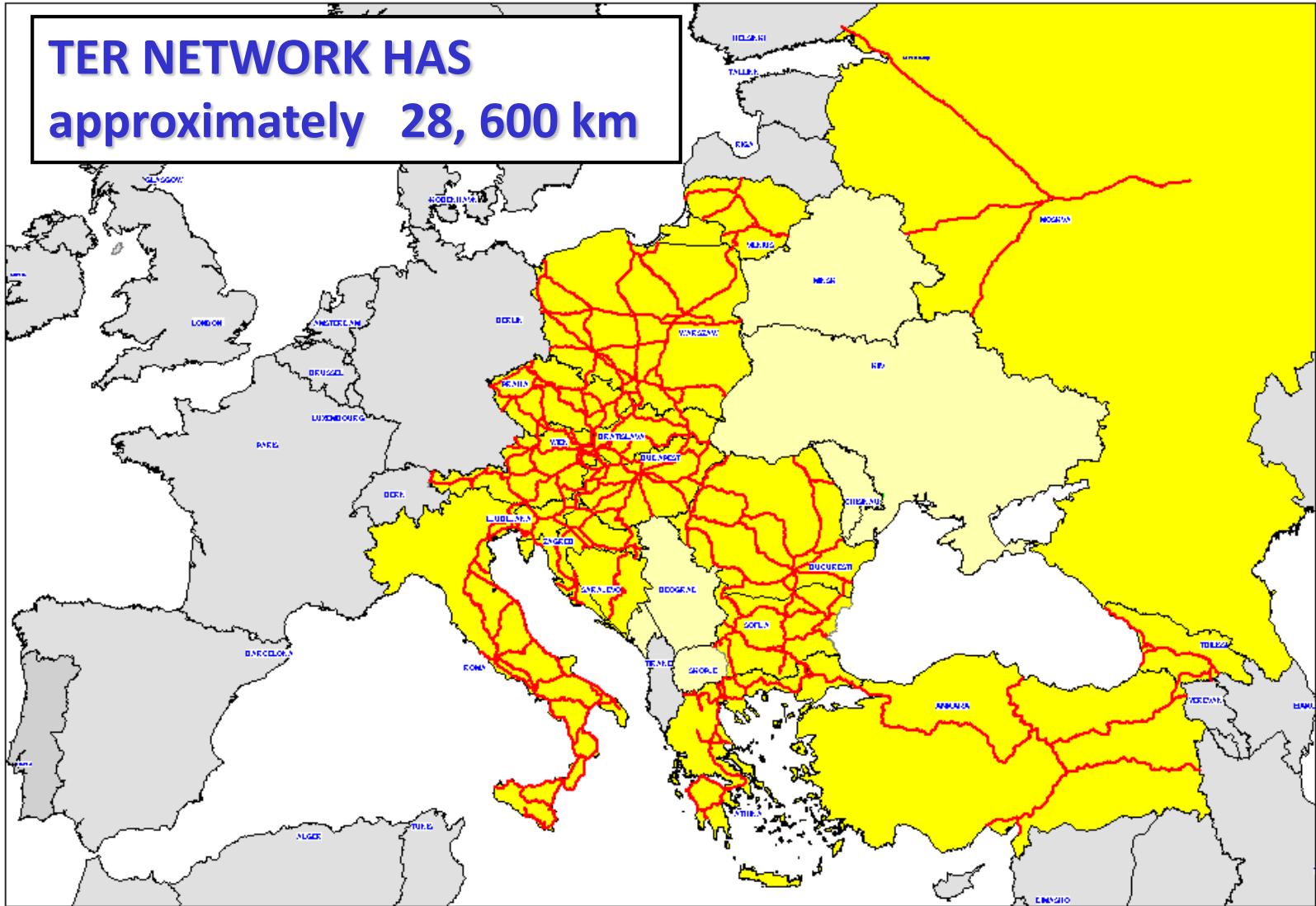
**But above all,**

**TEM and TER Networks constituted the backbones of the Pan-European Road and Rail Corridors in CEE countries, as well as TINA exercise, offering valuable contribution in the formulation of the new strategic transport plans of Europe and for the extension of EU TEN-T in the acceding countries**



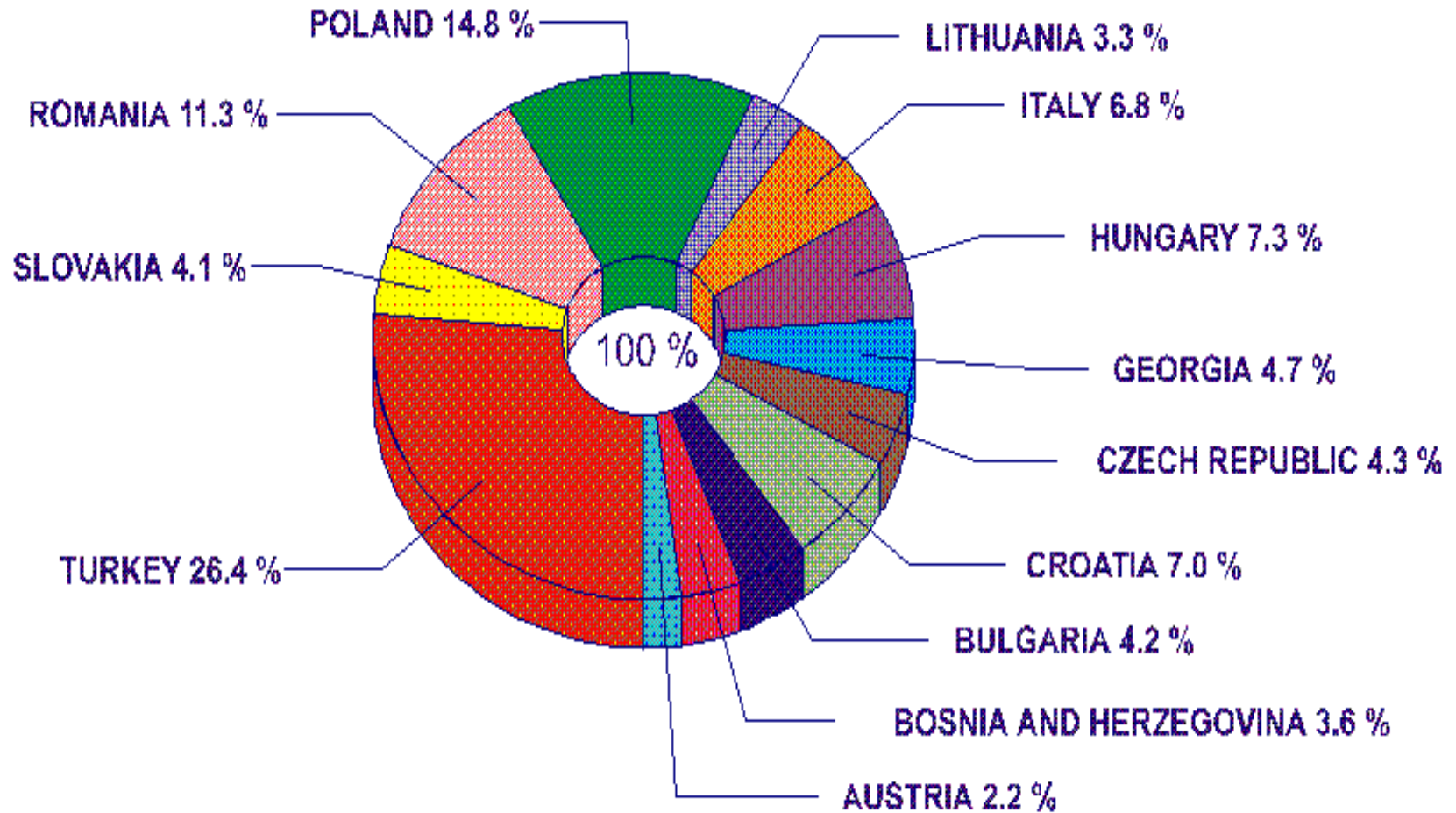


**TER NETWORK HAS  
approximately 28,600 km**



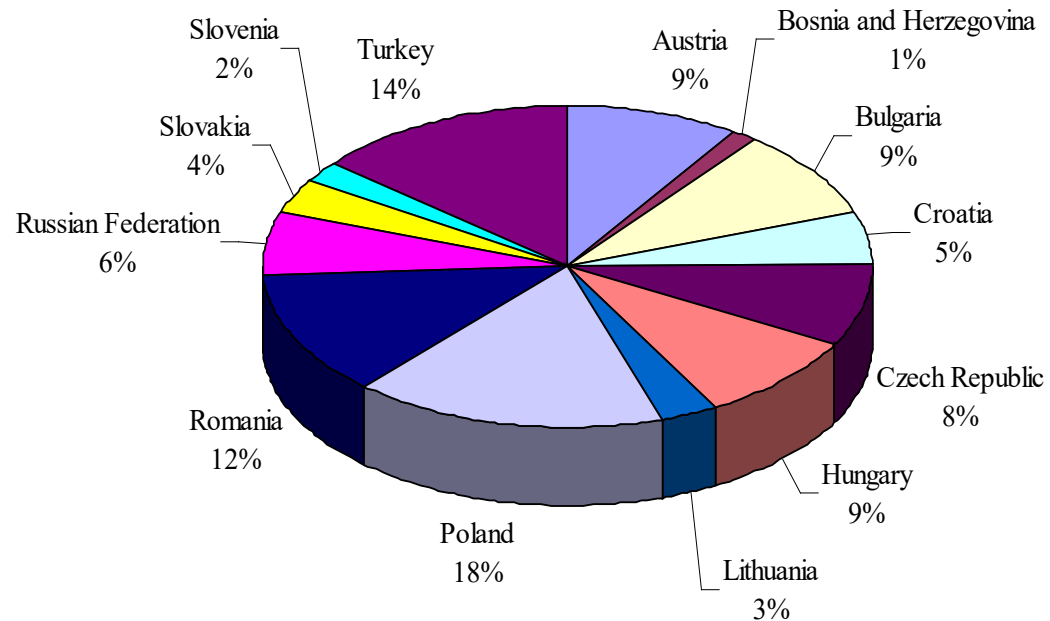


## TEM Network per country



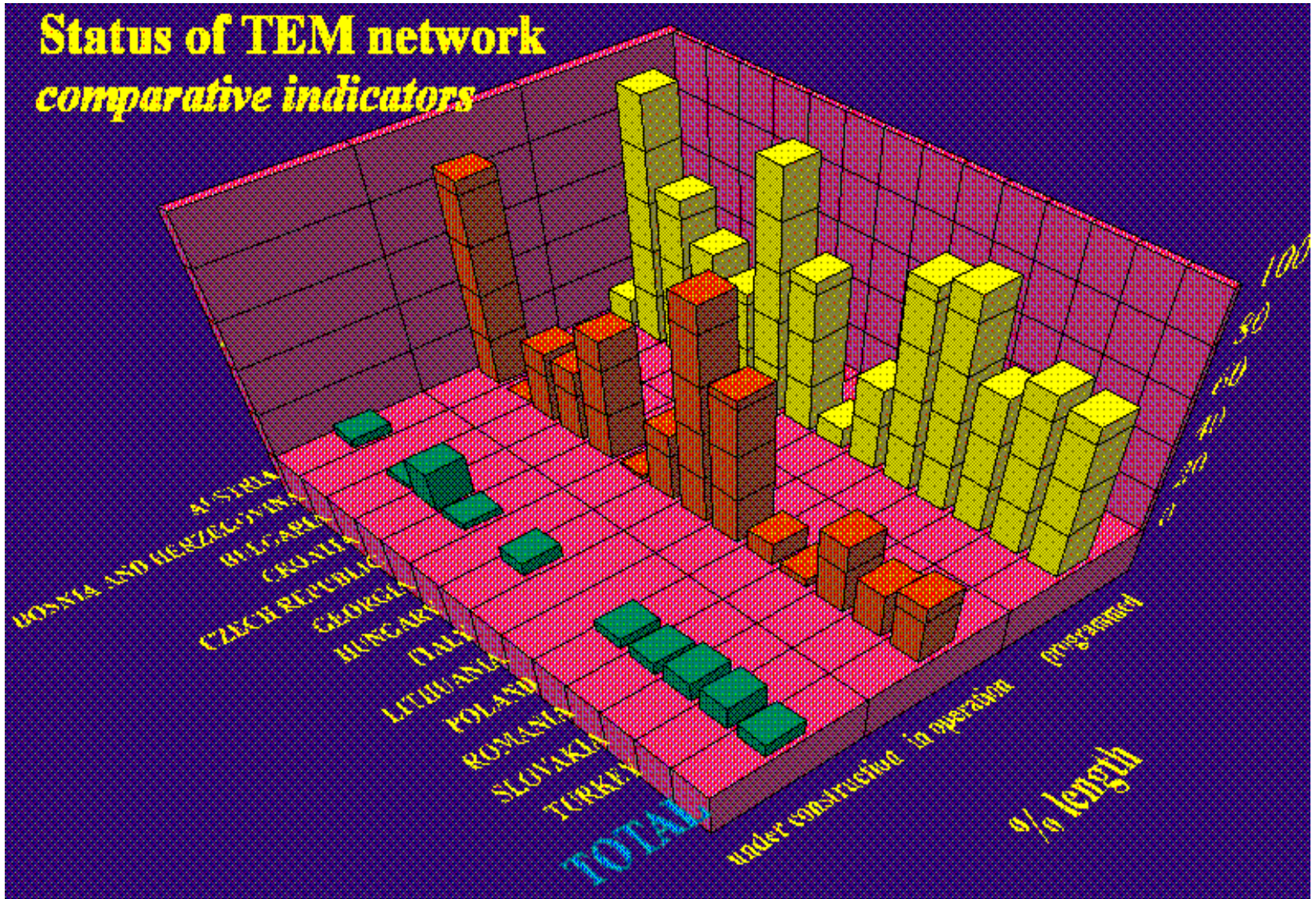


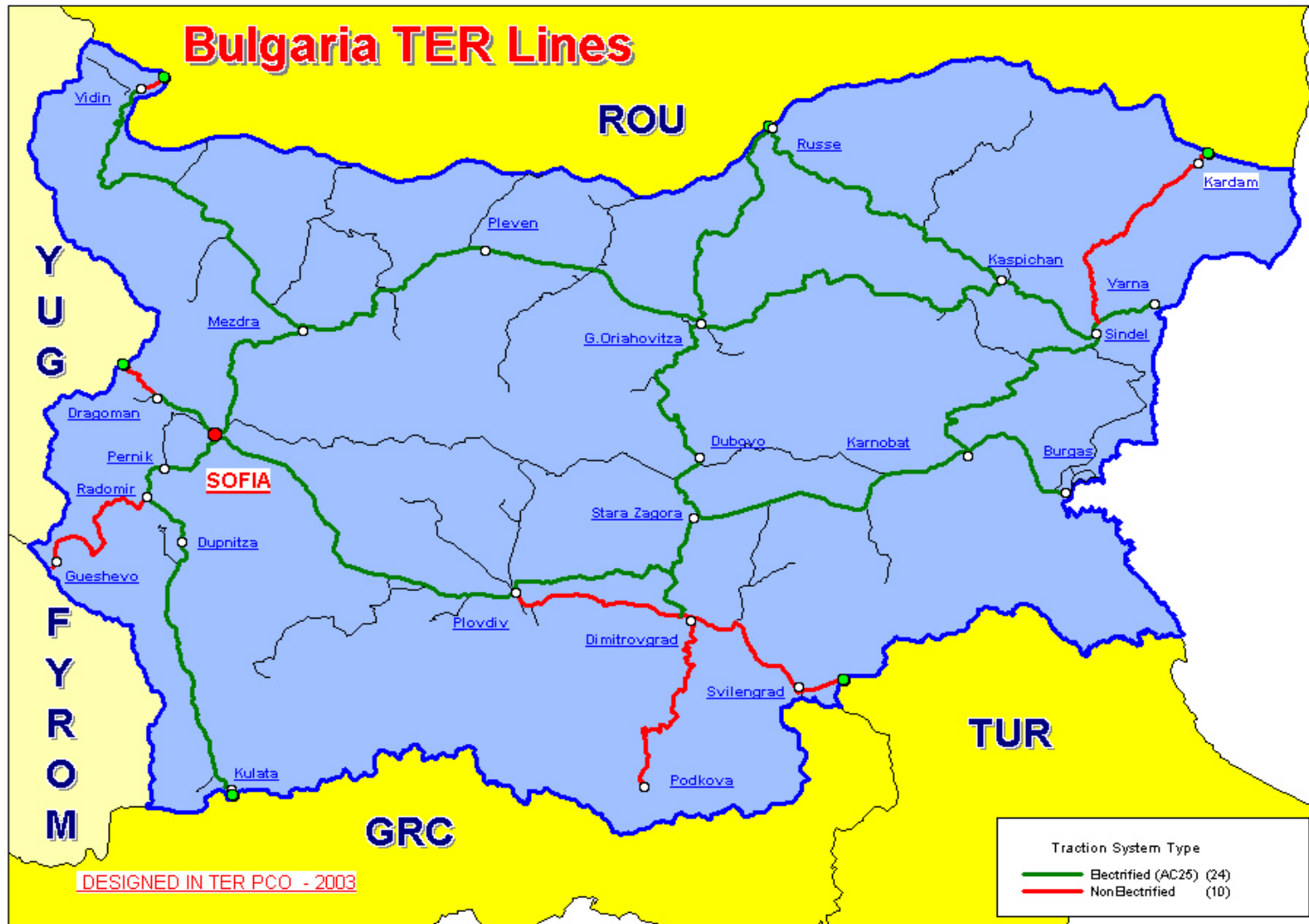
**TER Network per Country**



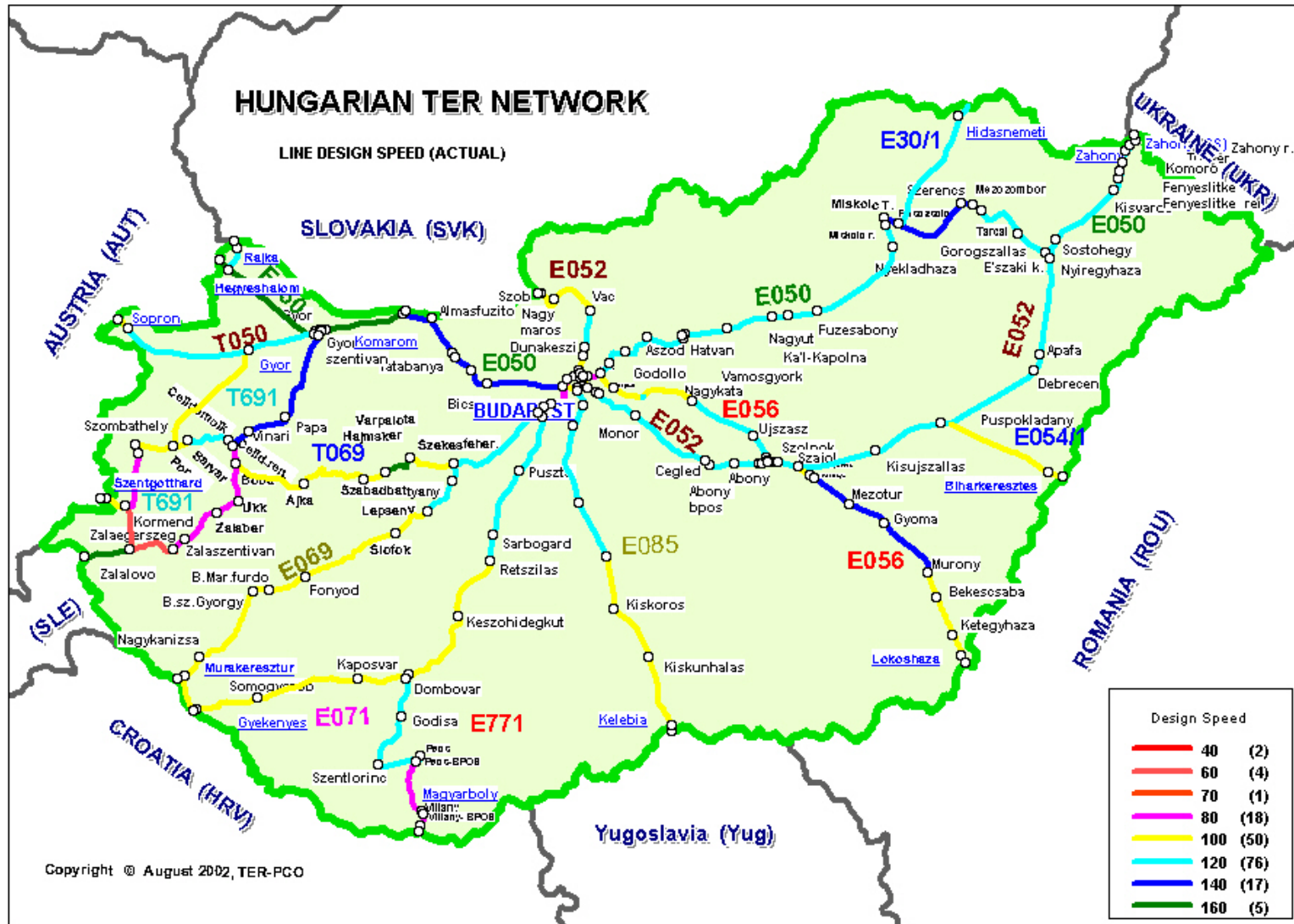


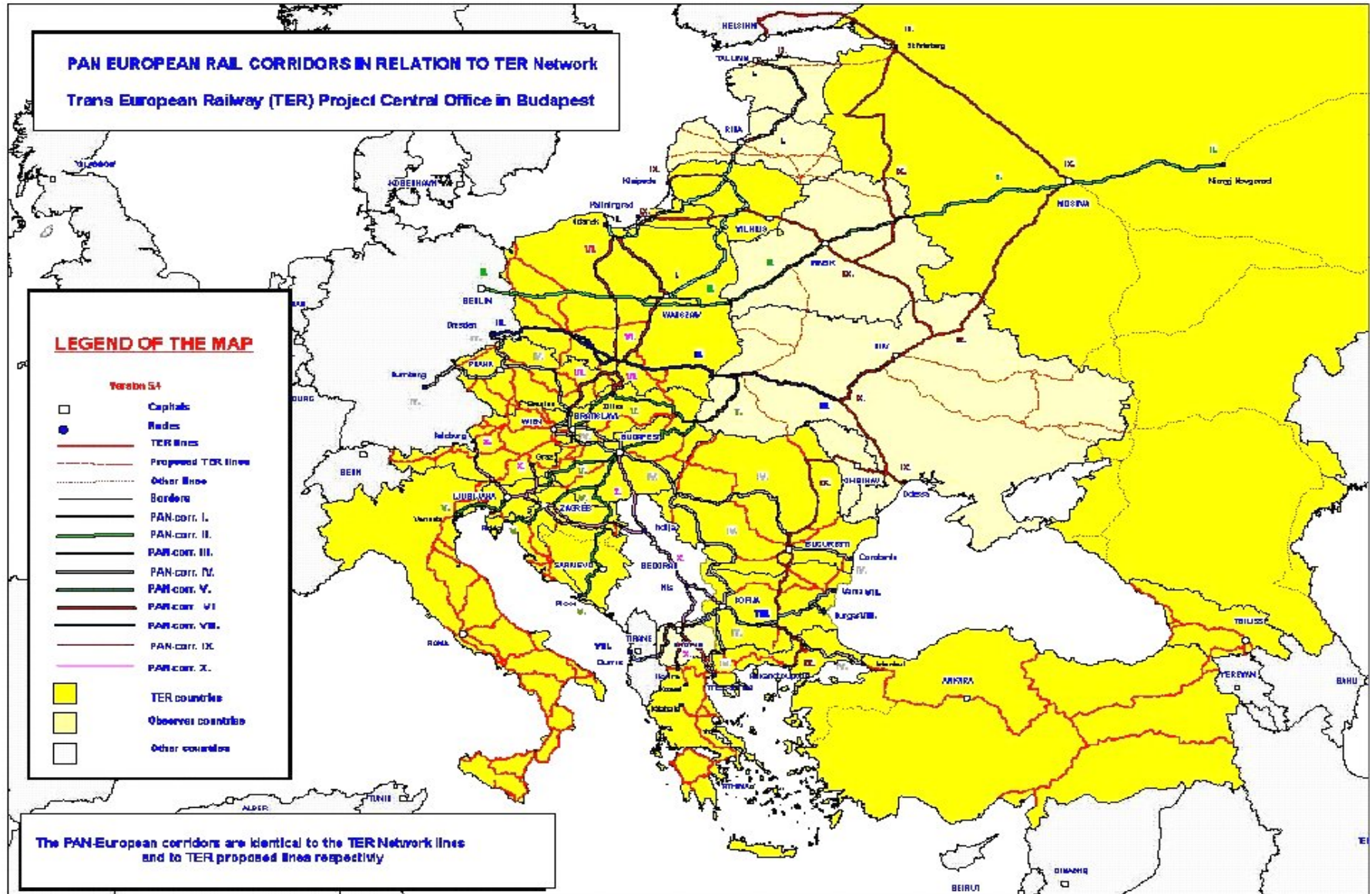
# Status of TEM network comparative indicators













# TEMSTAT map

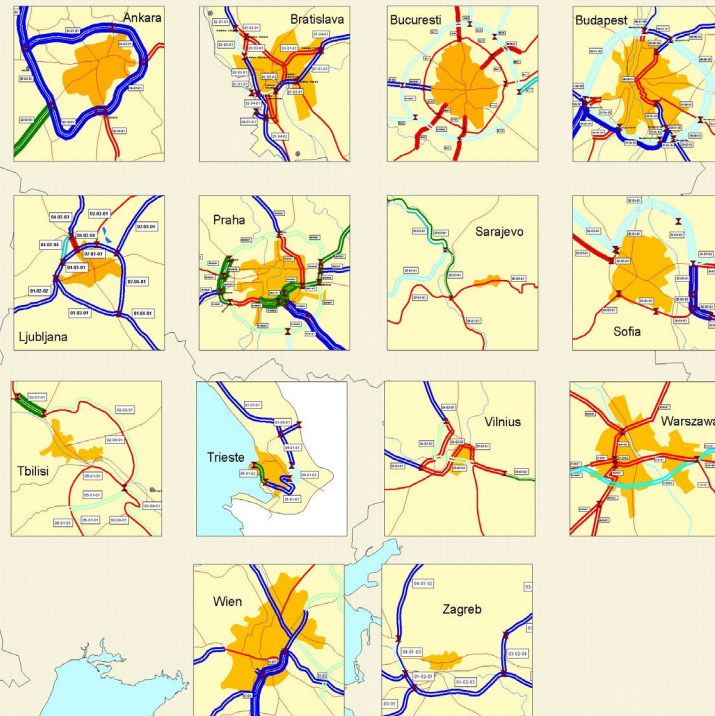


UNITED NATIONS  
ECONOMIC COMMISSION FOR EUROPE  
TRANS-EUROPEAN NORTH-SOUTH MOTORWAY (TEM)  
PROJECT CENTRAL OFFICE, WARSAW, POLAND



## MOTORWAY, EXPRESSWAY AND E-ROAD NETWORK Status as of 1 January 2003

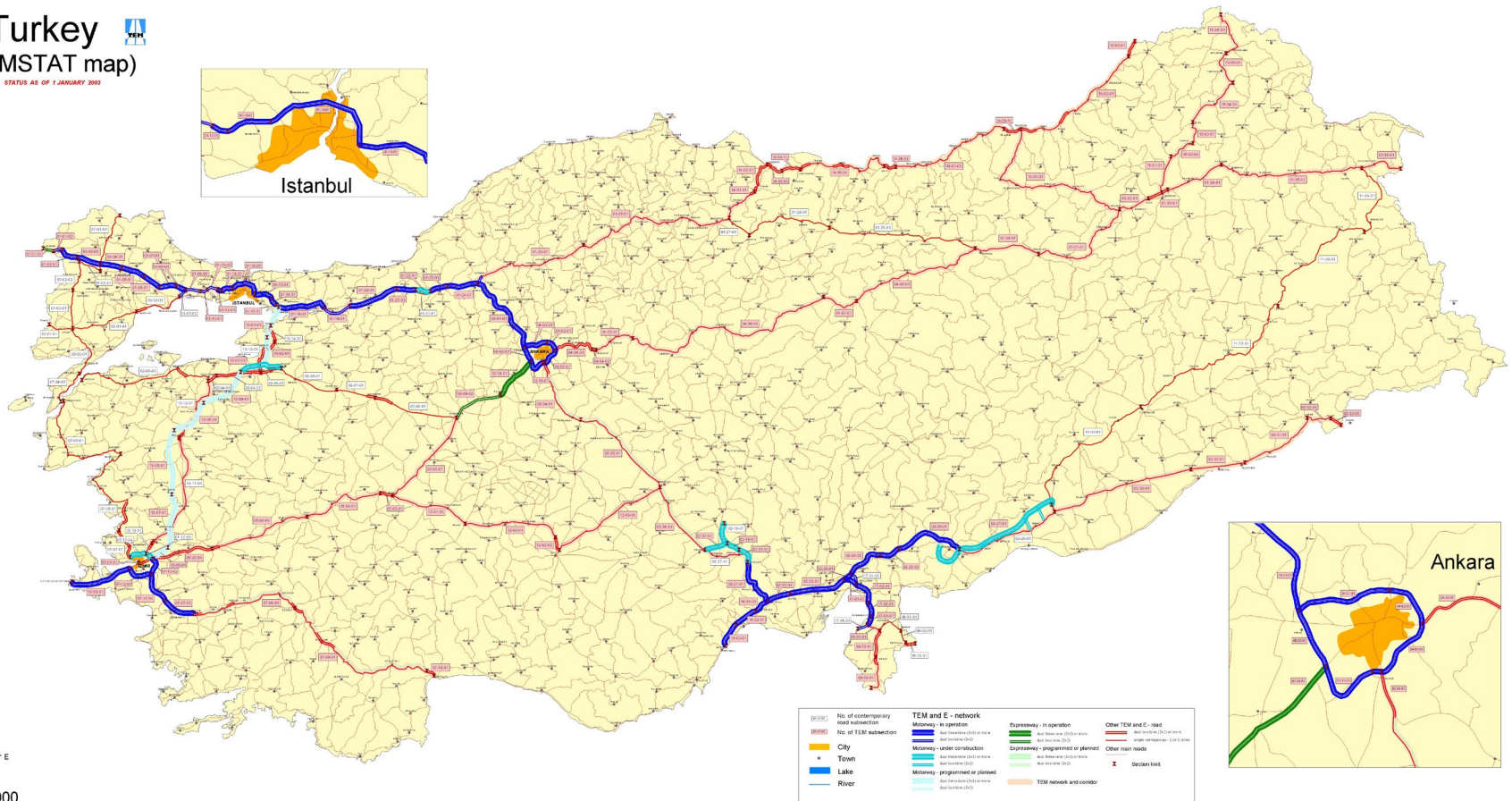
- |   |  |
|---|--|
| <p><b>Motorway - in operation</b></p> <ul style="list-style-type: none"> <li> dual three-lane (2+1) or more (TEM network only)</li> <li> dual two-lane (2+2)</li> <li> single carriageway - 4 or more lanes or more</li> <li> single carriageway - 2 or 3 lanes (left or right)</li> </ul> <p><b>Motorway - under construction</b></p> <ul style="list-style-type: none"> <li> dual three-lane (2+1) or more (TEM network only)</li> <li> dual two-lane (2+2)</li> <li> single carriageway - 4 or more lanes or more</li> <li> single carriageway - 2 or 3 lanes (left or right)</li> </ul> <p><b>Motorway - programmed or planned</b></p> <ul style="list-style-type: none"> <li> dual three-lane (2+1) or more (TEM network only)</li> <li> dual two-lane (2+2)</li> <li> single carriageway - 4 or more lanes or more</li> <li> single carriageway - 2 or 3 lanes (left or right)</li> </ul> | <p><b>Expressway - in operation</b></p> <ul style="list-style-type: none"> <li> dual three-lane (2+1) or more (TEM network only)</li> <li> dual two-lane (2+2)</li> <li> single carriageway - 4 or more lanes or more</li> <li> single carriageway - 2 or 3 lanes (left or right)</li> </ul> <p><b>Expressway - under construction</b></p> <ul style="list-style-type: none"> <li> dual three-lane (2+1) or more (TEM network only)</li> <li> dual two-lane (2+2)</li> <li> single carriageway - 4 or more lanes or more</li> <li> single carriageway - 2 or 3 lanes (left or right)</li> </ul> <p><b>Expressway - programmed or planned</b></p> <ul style="list-style-type: none"> <li> dual three-lane (2+1) or more (TEM network only)</li> <li> dual two-lane (2+2)</li> <li> single carriageway - 4 or more lanes or more</li> <li> single carriageway - 2 or 3 lanes (left or right)</li> </ul> <p><b>E-road</b></p> <ul style="list-style-type: none"> <li> dual two-lane (2+2) or more</li> <li> single carriageway - 4 or more lanes or more</li> <li> single carriageway - 2 or 3 lanes</li> </ul> |
|---|--|
- Cities and cities of more than 1 000 000 inhabitants  
 Cities of 100 000 - 1 000 000 inhabitants  
 Towns  
 No. of TEM subsection



1:3000000



## Turkey (TEMSTAT map)



N  
W E  
S  
1:1200000

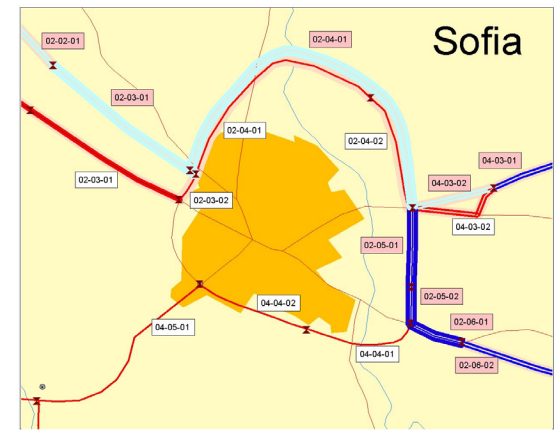


## Bulgaria (TEMSTAT map)

STATUS AS OF 1 JANUARY 2003



01-01-01	No. of contemporary road subsection	TEM, TINA and E - network	Expressway - programmed or planned
01-01-01	No. of TEM subsection	Motorway - in operation	dual two-lane (2x2)
02-01-01	City	dual three-lane (2x3) or more	E - Road
03-01-01	Town	dual two-lane (2x2)	dual two-lane (2x2) or more
04-01-01	Lake	single carriageway - 2 or 3 lanes (left or right)	single carriageway - 4 traffic-lanes or more
05-01-01	River	Motorway - under construction	single carriageway - 2 or 3 lanes
		dual two-lane (2x2)	Other main road
		Motorway - programmed or planned	X Section limit
		dual three-lane (2x3) or more	TEM network and corridor
		dual two-lane (2x2)	
		single carriageway - 2 or 3 lanes (left or right)	





# **TEM and TER Master Plans**

## **Objectives**

**Consistent and realistic investment strategy for the development of the road, rail and combined transport infrastructures in the wider TEM and TER region, supporting:**

- **Promotion of TEM-TER Projects' goals**
- **Extension of TEN-T**
- **Development of Pan-European Transport Corridors**
- **Promotion of intermodality**
- **European transport integration**



## **Master Plans**

### **Tasks (Divided in 10 WPs)**

- **Review of related TEM and TER work and European initiatives, policies and studies**
- **Socioeconomic framework of concerned countries and alternative scenarios of growth**
- **Methodology and main assumptions**
- **Inventory of needs**
- **Elaboration of Master Plans**
- **Funding questions and financing arrangements**
- **Border crossing questions**
- **Conclusions / recommendations / dissemination**





## **Terms of Reference** (continued)

### Invited to support the work

**16 TEM-TER member countries:** Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Georgia, Greece, Hungary, Italy, Lithuania, Poland, Romania, Russian Federation, Slovakia, Slovenia, Turkey

**5 more member countries:** Belarus, F.Y.R.O.M, Republic of Moldova, Serbia and Montenegro, Ukraine

**Organizations:** EC - ECMT – WB - EBRD - EIB – UIC – CER - UIRR - Europlatforms – Eurochambres – Pan European Corridors



## **Elaboration**

### **Organisation and management (WP 0)**

- **PCO**                                    **Main responsible**
- **National Experts**                    **Consolidate national information**
- **Invited organizations**              **Thematic support/guidance**
- **External consultants**              **Technical/ scientific assistance**

### **TER Master Plan Expert Group**

**PCO, National Experts, Organizations, Consultants, UNECE**

### **TEM and TER Master Plan Coordination Group**

**PCOs, External Consultants, UNECE**



# Elaboration of Master Plans-Time table

Reviewed Work Time Plan

	WP	YEAR 2003				YEAR 2004								
		MONTHS												
		1 SEPT	2 OCT	3 NOV	4 DEC	5 JAN	6 FEB	7 MARCH	8 APR	9 MAY	10 JUNE	11 JUL	12 AUG	SEP
WP0														
WP1														
WP2														
WP3														
WP4														
WP5														
WP6														
WP7														
WP8														
WP9														

Master Plan Coordination Group Meetings	Master Plan TEM and TER Expert Group Meetings
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## **Conclusions**

- Support construction, management and operation of quality road network and the development of quality and efficiency of rail and combined transport operations**
- Secure road safety standards and comfort on road transport and support the alleviation of congestion and reduction of environmental and safety problems in European transport networks**
- Assist the dissemination of know-how and expertise**
- Constitute an advanced instrument of country cooperation for the development of transport infrastructure**



## **TEM and TER Projects**

# **THE BEST PRACTICE FOR THE DEVELOPMENT OF TRANSPORT INFRASTRUCTURE**

[www.unece.org/trans/](http://www.unece.org/trans/)