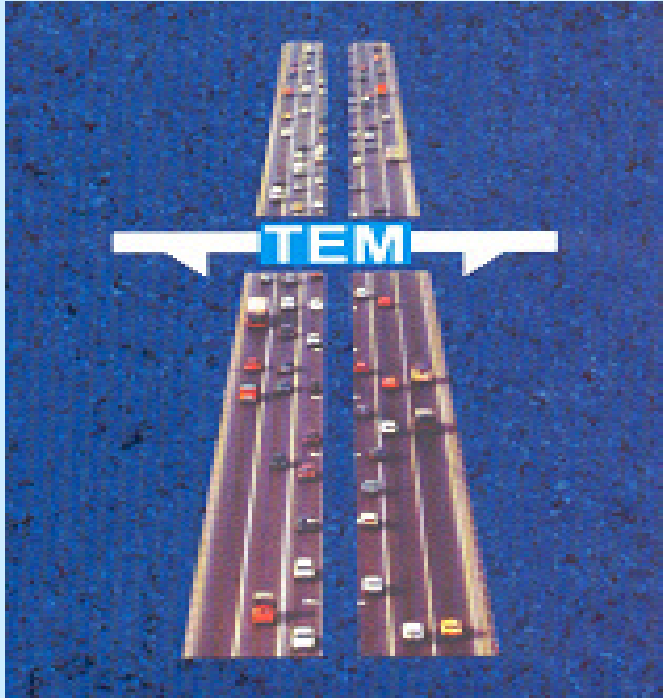




TRANS-EUROPEAN NORTH – SOUTH MOTORWAY (TEM) PROJECT



**TEM Project – activities
and achievements**

Marian Hantak
Project Manager

Geneva, 14 September 2007



BACKGROUND

- The oldest regional transport infrastructure project in Europe
- Initiated by Poland and Hungary who asked the United Nations assistance in preparing, designing and constructing motorways
- Opening the Project Central Office in Warsaw, Poland in 1977
- At the beginning 10 countries participated in the TEM Project :
Austria, Bulgaria, Czechoslovakia, Greece, Hungary, Italy, Poland, Romania, Turkey and Yugoslavia
- Its network total length was 10 400km



INITIAL TEM ITINERARY AND GOALS

Construction and management of modern system of motorways connecting Baltic, Adriatic, Aegean and Black Seas





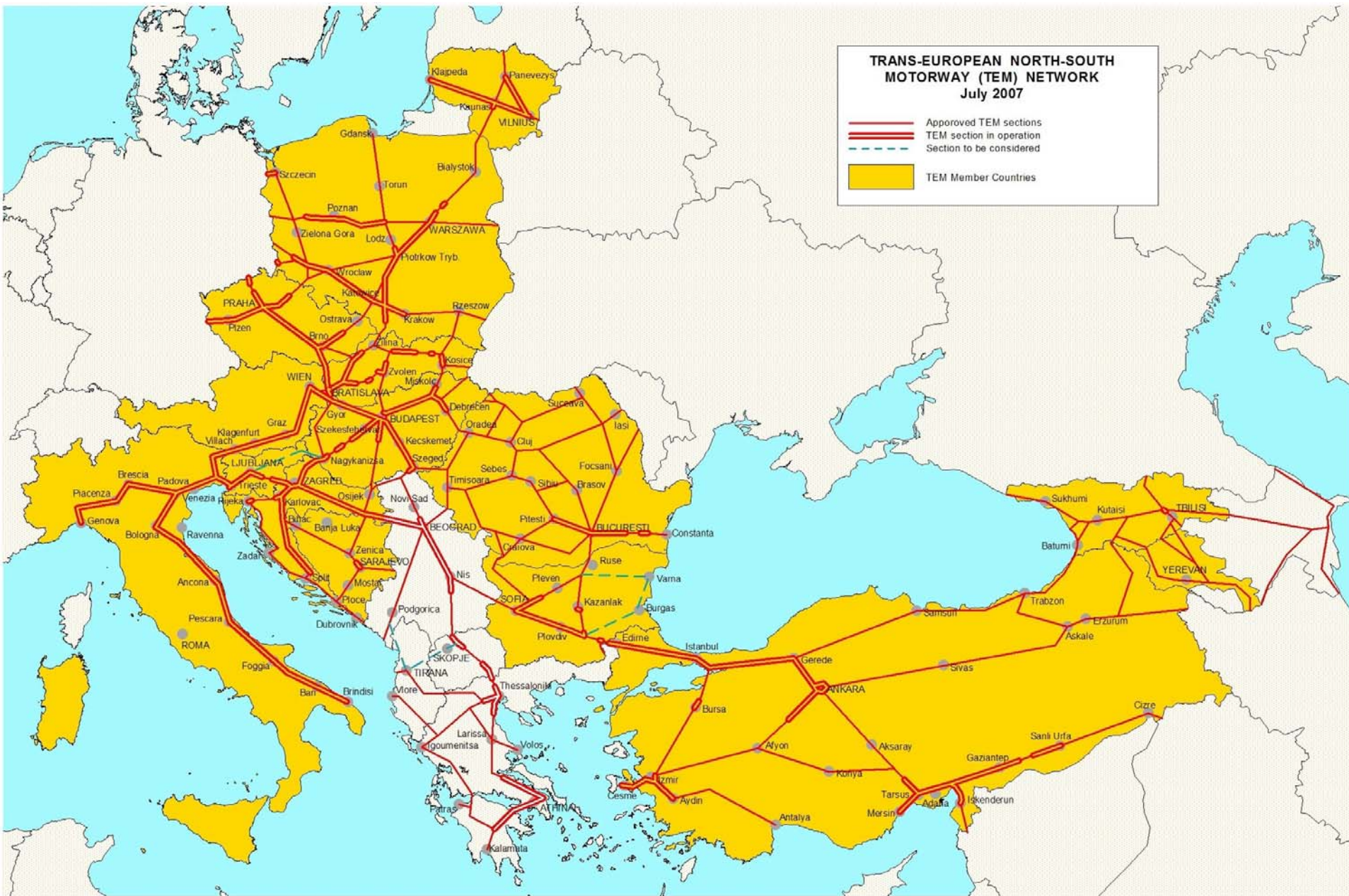
TEM PROJECT OBJECTIVES

- Assist countries in accelerating construction of TEM network
- Assist in maintaining, operating and managing TEM network
- Pay special attention to upgrading of existing roads
- Promote and improve co-operation on matters of road transport amongst TEM countries
- Disseminate knowledge, expertise and know-how to other regions of the world



FURTHER MILESTONES

- Political and economic changes in Europe lead to decision to expand the system by adding east – west connections in 1991
- Since 1992 independent and self – sustaining funding of the Project activities by participating countries only
- 14 TEM member countries in 2006: Armenia, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Georgia, Hungary, Italy, Lithuania, Poland, Romania, Slovakia, Slovenia and Turkey.
- Associated member: Austria
- Observers: Serbia, Sweden and Ukraine





MAIN ACHIEVEMENTS

- The TEM Network Identification
- TEM Standards and Recommended Practice
- Data collection and TEMSTAT Maps
- Dissemination of know-how and expertise
- Harmonization of signing, introduction of ITS, rich international cooperation with organizations dealing with road transport infrastructure
- TEM Master Plan: A realistic investment strategy for developing motorways and expressways network in 21 countries

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 2006

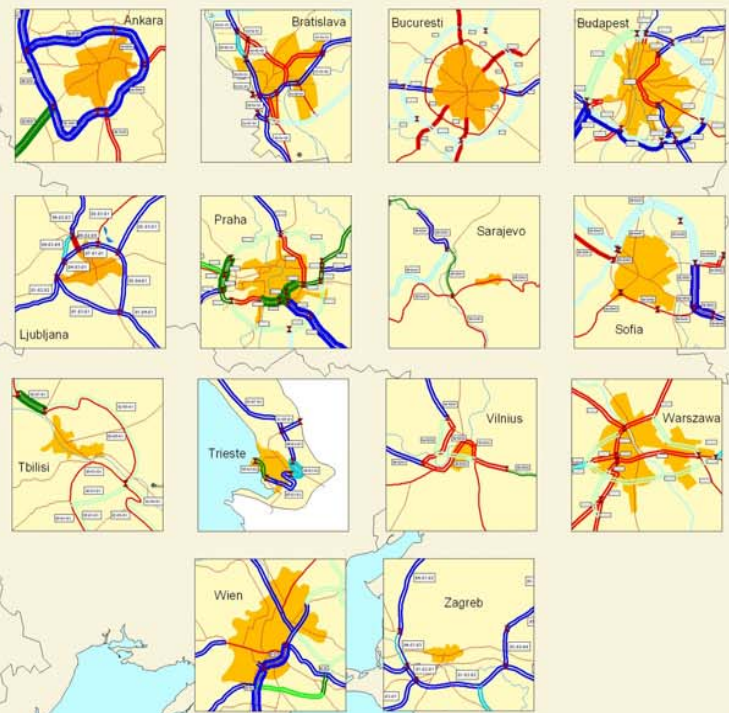
Motorway - in operation	Expressway - in operation
Dual three lane (2/1) or more (TEM network only)	Dual three lane (2/1) or more (TEM network only)
Dual two lane (2/0)	Dual two lane (2/0)
Single carriageway - 4 traffic lanes or more (left or right)	Single carriageway - 4 traffic lanes or more
Single carriageway - 2 or 3 lanes (left or right)	Single carriageway - 2 or 3 lanes (left or right)

Motorway - under construction	Expressway - under construction
Dual three lane (2/1) or more (TEM network only)	Dual three lane (2/1) or more (TEM network only)
Dual two lane (2/0)	Dual two lane (2/0)
Single carriageway - 4 traffic lanes or more (left or right)	Single carriageway - 4 traffic lanes or more
Single carriageway - 2 or 3 lanes (left or right)	Single carriageway - 2 or 3 lanes (left or right)

Motorway - programmed or planned	Expressway - programmed or planned
Dual three lane (2/1) or more (TEM network only)	Dual three lane (2/1) or more (TEM network only)
Dual two lane (2/0)	Dual two lane (2/0)
Single carriageway - 4 traffic lanes or more	Single carriageway - 4 traffic lanes or more
Single carriageway - 2 or 3 lanes (left or right)	Single carriageway - 2 or 3 lanes (left or right)

E-ROAD
Dual three lane (2/1) or more
Single carriageway - 4 traffic lanes or more
Single carriageway - 2 or 3 lanes

Other symbols
Populated area with more than 1 000 000 inhabitants
Urban agglomeration - 1 000 000 inhabitants
Town
City
City of TEM destination





TEM MASTER PLAN



- **A commonly agreed methodology**
 - Two scenarios of growth: moderate and optimistic
 - Demography, GDP growth, Trends in foreign trade
 - Forecast of transport demand up to 2020
- **319 motorway projects Evaluated and Prioritized**
 - Total value : € 49,5 billion
 - Of which € 15.1 billion is secured (31%)
- **Additional and Missing Links and TEM Extensions**
- **Identification of the TEM Backbone network and TEM Bottlenecks**
- **Inventory of border-crossing problems and recommendations for alleviating them**

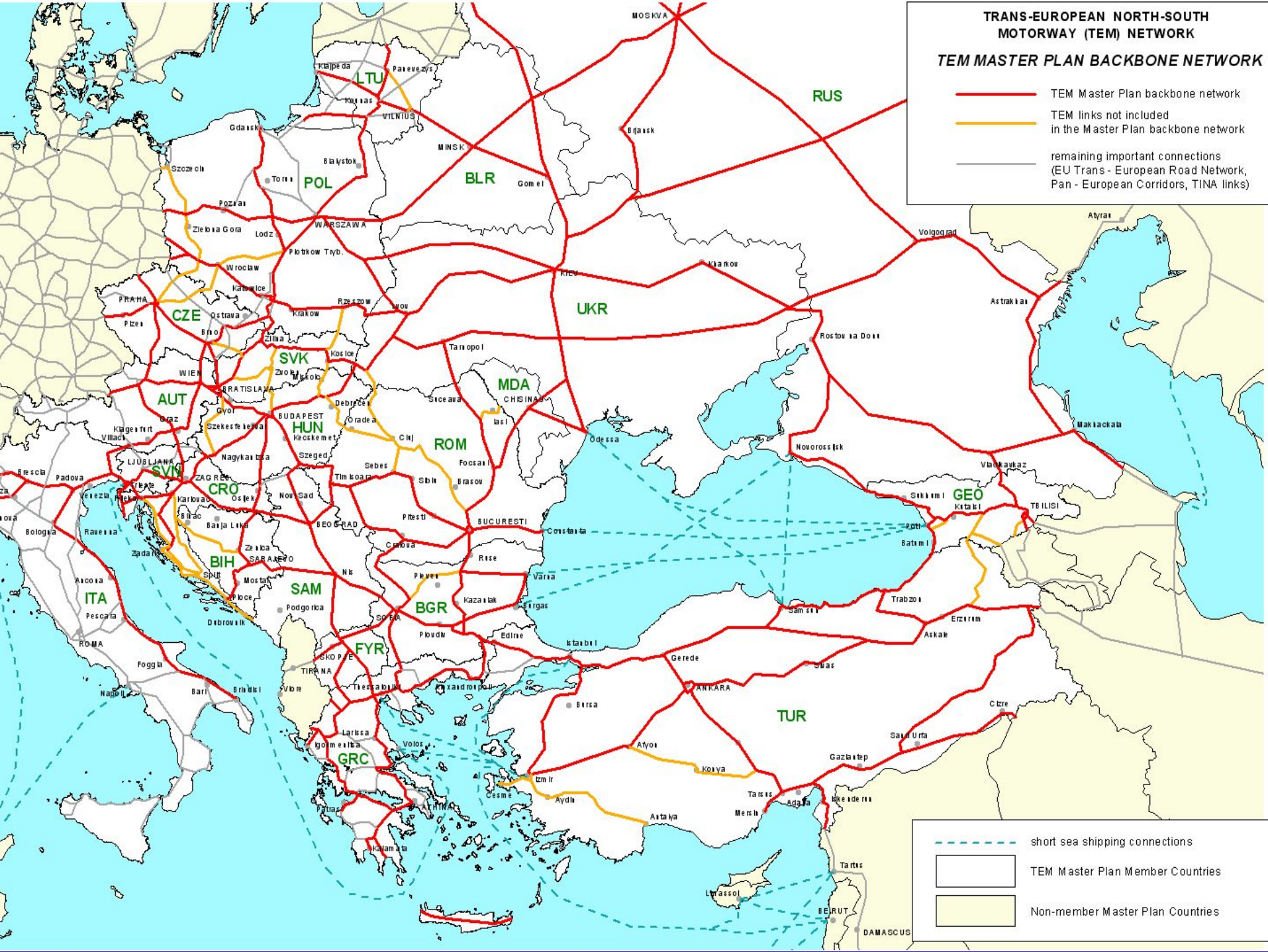




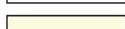
United Nations Economic Commission For Europe - TEM Project

TRANS-EUROPEAN NORTH-SOUTH MOTORWAY (TEM) NETWORK

TEM MASTER PLAN BACKBONE NETWORK

-  TEM Master Plan backbone network
-  TEM links not included in the Master Plan backbone network
-  remaining important connections (EU Trans - European Road Network, Pan - European Corridors, TINA links)

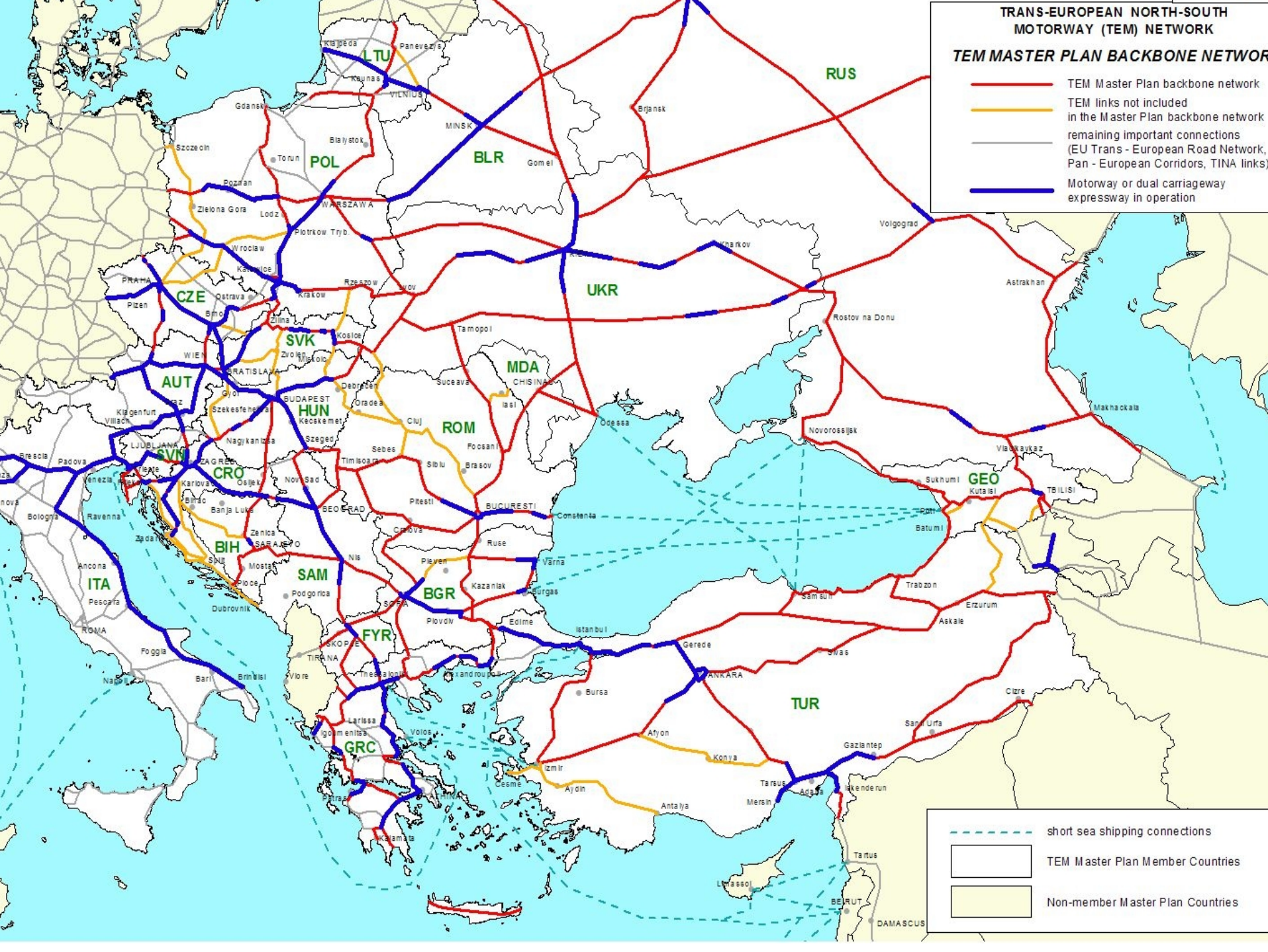


-  short sea shipping connections
-  TEM Master Plan Member Countries
-  Non-member Master Plan Countries

TRANS-EUROPEAN NORTH-SOUTH
MOTORWAY (TEM) NETWORK

TEM MASTER PLAN BACKBONE NETWORK

-  TEM Master Plan backbone network
-  TEM links not included in the Master Plan backbone network remaining important connections (EU Trans - European Road Network, Pan - European Corridors, TINA links)
-  Motorway or dual carriageway expressway in operation

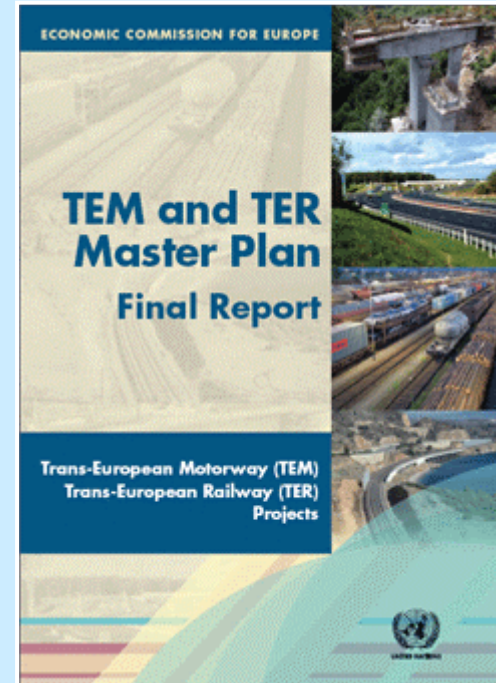


-  short sea shipping connections
-  TEM Master Plan Member Countries
-  Non-member Master Plan Countries



MASTER PLAN FOLLOW UP

- **Countries to implement**
- **Monitoring implementation**
- **Revision scheduled for 2008**
 - Add new projects
 - Complete data
 - Include other countries
 - Further study: funding aspects of priority projects





TEM MASTER PLAN (MP) 2007 FOLLOW-UP TIMETABLE

ACTIVITY	2007											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Completion of MP countries' missing and insufficient data												
Collection of respective data from Armenia and Slovenia												
Establishment of backbone network priorities												
Collection of data on backbone network status and progress												
Preparation of report on network status and planned progress										1		
Workshop on TEM MP bottlenecks/stage constr. methodology											2	
Updating of list and maps of TEM MP bottlenecks												
Monitoring MP projects' implementation										1		
Comparison of TEM MP backbone network with the AGR												
Elaboration of proposals on modifications of backbone network										1		
Maintenance and upgrading of TEM MP GIS system												
Analysis of financial securisation of MP projects									3			
Preparation of MP follow-up brochure												
Preparation of TOR of review of investment strategy for 2008												



TEM PROJECT - NEXT STEPS

- Continue the work on the Master Plan
- Extend TEM Project further to East and South
- Continue addressing border crossing facilitation
- Further develop and update TEM database
- Strengthen cooperation with EC, HEEP and other international institutions
- Contribute to the development of Euro-Asian transport links



CONCLUSIONS

- TEM Project is an efficient cooperation mechanism for coordinated development of motorway network
- TEM has produced tangible results (studies, maps, standards)
- Implementation of TEM objectives requires long-term political commitment of governments involved and close cooperation and coordination among them
- International institutions and all countries from the region not members till now are invited to benefit from the TEM Project work



TRANS-EUROPEAN NORTH – SOUTH MOTORWAY (TEM) PROJECT



www.unece.org/trans/