



Economic Commission for Europe**Inland Transport Committee****Working Party on Transport Trends and Economics****Thirty-third session**

Geneva, 7–9 September 2020

Item 3(b) of the provisional agenda

Development of transport networks and/or links:**Trans-European Motorway and Trans-European Railway projects****Information on the Trans-European North-South Motorway project development*****Submitted by the TEM Project Manager****I. Trans European North-South Motorway project activities and achievements in 2019**

1. During the seventy-second session of the Trans European North-South Motorway (TEM) Steering Committee (Turkey, from 29 April to 3 May 2019), the TEM Programme of Work for 2019 was presented by Mr. A. Maciejewski, TEM Project Manager and adopted by the Steering Committee.
2. The following tasks were included in TEM Programme of Work for 2019:
 - (a) Strengthening capacities of TEM Participating Governments by attending the workshops and exchanging knowledge and best practices in the following areas:
 - Network development and funding strategies;
 - Operational proficiency of road sub-sector within TEM Participating Governments;
 - Responsiveness to trends in transport and economy.
 - (b) Preparation of high-quality deliverables/reports based on organized workshops with topics closely related to the areas mentioned above, and with active involvement of representatives of TEM Participating Governments.
 - (c) Increase effectiveness and efficiency of the TEM Project, both for TEM participating and other countries, through an active cooperation with European and American partners based on experience and best practice sharing and mutual cooperation.
3. The main TEM Project activities and achievements in 2019 were:

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(a) Workshops and seminars

- Workshop on the use of Building Information Management (BIM) in the management of road infrastructure with presentation of experiences of TEM Participating Governments and representatives of the United States Department of Transport (DOTs) Highway Engineering Exchange Program (HEEP) (Warsaw, 9–14 June 2019).
- Participation in the 61st annual International HEEP Conference in Asheville, United States 8–12 September 2019. The focus of this meeting was on implementation of Building Information Modelling processes into transport infrastructure projects. At the same event, the Working Group on Asset Management was established with participation of TEM Participating Governments and HEEP participating DOTs. The very first meeting of this group took place during a conference in 2018 and provided a general overview of key components of asset management systems and plans in Europe and the United States:
 - Assets inventories;
 - Condition and performance management;
 - Deterioration modelling;
 - Analytical models for the life-cycle costing of road assets;
 - Risk management;
 - Performance management;
 - Tools supporting asset management systems, and
 - Asset management plans preparation and implementation.

(b) Reports and publications

- According to the TEM Strategic Plan and the decisions of the TEM Steering Committee, three reports were under preparation in 2019, to be published in the following years:

Operational Proficiency

TEM Strategy area and topic	B.2. Evaluation of the efficiency of toll collection system – evaluation methodology.
Title	TBD
Purpose and scope	Report shall consist of developing the methodology and guidelines for measuring the effectiveness of the toll collection system. The methodology shall consider: <ul style="list-style-type: none"> • Types of toll systems used in individual States; • The toll system efficiency measuring method depending on the model, and considering both financial and quality issues, such as risk control systems, implementation difficulty, technology development etc.; • Comparison of toll systems in terms of efficiency.

Status as for 31 December 2019 First draft under preparation

Operational Proficiency

TEM Strategy area and topic	C.2. Measurement, collection and management of data in the management of road infrastructure.
Title	Tools for Asset Management: recommendations for road operators
Purpose and scope	<p>Report shall provide an overview of IT solutions in relation to Asset Management Policy, Strategic Asset Management Plans, analytical tools for risk, demand and supply management, supporting overall performance measurement.</p> <p>The main focus of the Report should be on analysis of the scope of Asset Management Systems (AMS) and its impact on the road authorities and its business processes (especially life-cycle management processes), maturity assessment methodology in terms of Asset Management and deployment approaches and strategies which may be used in TEM Member countries.</p> <p>The TEM participating Governments experiences will constitute a knowledge base for preparation of the report alongside with existing manuals, standards and initiatives of other international organizations and stakeholders.</p>
Status as for 31 December 2019	First draft under preparation

Operational Proficiency

TEM Strategy area and topic	D.2. BIM Approach (Building Information Modelling) in the context of the needs of the government road administration
Title	The use of BIM in the management of road infrastructure
Purpose and scope	<p>Public sector organizations are being increasingly subjected to both legislative and competitive pressures forcing them to reconsider their relationships with users and customers in order to develop a more overt customer orientation (as the primary driver of organizational performance). The creation of value supports the development of a customer orientation, and is a requirement, to which more public sector organizations nowadays adapt. This applies to all sectors of the economy, also to the road sub-sector.</p> <p>In modern society, road infrastructure has become an essential part of daily life. Individual road users, logistic companies or public transportation agencies expect reliable and safe road infrastructure to carry out their transportation or wider mobility operations, moving goods and people.</p> <p>Road authorities need to properly plan, build, maintain and operate the road infrastructure to create given above value for its customers.</p> <p>To achieve these goals road authorities have to adopt an appropriate value delivery system which will be based on:</p> <ul style="list-style-type: none"> • Facet-based project selection • Streamlined project delivery • Making the most of existing roads • Improving capabilities • Accurate funding and finance

Operational Proficiency

Status as for 31 December 2019	Final draft sent to United Nations Economic Commission for Europe (ECE) for comments/approval
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Network Development

Title	TEM Network Report
Purpose and scope	<p>The 2019 TEM Network Report is a continuation of TEMSTAT activities of TEM Project. TEMSTAT activities have strong roots in the legacy of the Project. For many years data regarding TEM Network were collected and presented in a form of maps but never in a formula of exhaustive report. Main objective of this report is that TEM will devote to description and evaluation of TEM network within member countries. TEM Network Report constitute continual monitoring system. Report presents data in terms of network readiness, plans for development, road safety, border crossings and general transport information. This document can be treated as an attempt of revision of TEM Masterplan from 2011.</p> <p>TEM Participating Governments intention in production of the report is to establish a stable set of data allowing to monitor trends and identify changes in development and future of TEM road network. This report constitutes excellent source of data and information for governments, National Road Administrations and any interested parties in road and infrastructure sector. It may become a basis for further common projects of TEM Participating Governments focused on i.e. elimination of existing gaps and disparities in the network or improving services for transport at border crossings.</p> <p>TEM Network Report is biannual production where all accessible data are collected and evaluated in regard to TEM network.</p>
Status as for 31 December 2019	Final draft approved by Steering Committee/awaiting corrected maps from consultant

- Moreover, according to the decision of TEM Steering Committee a promotional TEM brochure was prepared and published;
 - At the beginning of the year the TEM Stakeholders Report was prepared by the TEM Project Manager.
- (c) Contribution to ECE Working Parties
- ECE Working Party on Road Transport (SC.1) meeting was held in Geneva Switzerland from 15 to 17 October 2019. TEM Project Manager presented the TEM annual progress report to the SC.1. The Chair of the group requested potential topics for cooperation between SC.1 and TEM.
 - Apart from this duty, TEM Project Manager presented information about the work of the Group of Experts on Benchmarking Construction Costs of Transport Infrastructure, where the TEM Project Manager is Chair.

II. TEM activities and achievements in 2020

4. Based on the results and experiences from 2019, several challenges for the TEM 2020 work programme were identified at the seventy-third session of the TEM Steering Committee (Warsaw, 3 and 4 December 2019). Mr. A. Maciejewski, TEM Project Manager and TEM Project Central Office (PCO), Ms. K. Lipińska presented the plan which was adopted by the Steering Committee.

5. The following tasks were included in the 2020 TEM Programme of Work:

(a) Strengthening capacities of TEM Participating Governments by attending workshops and exchanging of knowledge and best practices in the following areas:

- Network development and funding strategies;
- Operational proficiency of road sub-sector within TEM Participating Governments;
- Responsiveness to trends in transportation and economy.

(b) Preparation of high-quality deliverables/reports based on organized workshops with topics closely related to the areas mentioned above, and with active involvement of representatives of TEM Participating Governments.

(c) Increase effectiveness and efficiency of TEM Project, both for TEM participating and other countries, through an active cooperation with European and American partners based on experience and best practice sharing and mutual cooperation.

(i) Preparation of three reports:

- The standards of road infrastructure in the context of environmental protection;
- Safety standards in work zones;
- Evaluation of efficiency of the applied solutions for the road safety – the methodology /measurement standards.

(ii) Publication of the reports prepared in 2019/2020/2021;

(iii) Ensuring active participation of TEM Participating Governments representatives;

(d) Proposal for strategic areas for 2022-2026

- Area A – safe and sustainable mobility (including resilience);
- Area B – new technologies and innovations in transport;
- Area C – transport policy (incl. planning, project delivery and financing);
- Area D – operations and performance management

(e) Inviting new countries to participate in the TEM Project with a special focus on:

- Further cooperation with Ukraine and Belarus;
- Further cooperation with TER.

6. Due to pandemic Covid-19 TEM Project Managers along with ECE Regional Advisor decided to hold the seventy-fourth Steering Committee meeting online (4 June 2020). Steering Committee members discussed the topics concerning future activities and planned initiatives.

III. Conclusions

7. The TEM Project addresses priority topics for participating Governments which lead to a more rapid integration of transport infrastructure networks within the North-South dimension. At the same time, TEM stipulates standardization of business processes in the road network management framework by improving those processes, developing a common understanding of trends in the transport sector and challenges for infrastructure operators in terms of mobility. TEM enhances cooperation among the countries to ensure a higher quality of service along major motorway corridors.

8. The TEM Work Plan for 2020, adopted by the Steering Committee, focuses on implementation of activities proposed by the TEM Strategic Plan, with some cancellations (HEEP meeting in Europe and HEEP meeting in the USA) and production of tangible results and deliverables to meet needs and requirements of the participating Governments given difficulties in light of the COVID-19 pandemic.