SDG 9: Relevant UNECE Work on Resilient Infrastructure

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Overview

• Introduction
• Infrastructure Observatory
• Climate Change Impacts and Adaptation for Transport
• Benchmarking Infrastructure Construction Costs
• Data Collection for SDG9
SDG 9: Resilient Infrastructure

“Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation”

UNECE WORK

• Identifies main **Euro-Asian links** for priority development and cooperation
• Ensures **seamless connections** throughout Europe through Trans-European Motorways and Railways (TEM and TER)
• Facilitates **border crossings** (TIR convention)
Infrastructure Observatory
Infrastructure Observatory

• Given large number of different identified transport networks, Observatory will act as online repository for users to exchange basic information on projects, meetings, and to seek cooperation

• In the future, all international corridors should be hosted in a GIS environment. Hopefully ready by end-2018
Infrastructure Observatory

Prioritized Pre-Feasibility Studies
Mapping Traffic Analysis
Rehabilitation Maintenance
Strategic Decisions
New Transport Infrastructure Projects
Prioritized

International Transport Infrastructure Observatory

Existing Networks
Inter. Terminals
I.W.T
Roads
Rail

DATA Collection: Governments’ Focal points, UN ECE projects

The Market:
a. Shippers,
b. Freight Forwarders
c. Universities
d. Railway Undertakings

Users
International Financial Institutions, DONORS, Funds etc

Users

Open to everybody
Transportation Network

Rail Network and Auxiliary Infrastructure

Rail Projects

Border Crossing

Dry Ports

Maritime Ports

Rail Network by Legal

Rail Network_Projects: TUR-RLW-08

- Country Code: TUR
- Project ID: TUR-RLW-08
- Description: Bandirma-Izmir Railway Line
- Start City: Izmir-Allaga
- End City: Bandirma-Bursa
- Length: 253
- Project Status: Planning
- Project Start Year: NA
- Project End Year: NA
Climate change adaptation

- Group of Experts on Climate Change Impacts and Adaptation for transport Networks and Nodes (WP.5/GE.3) active since 2010
- Identifies parts of transport networks vulnerable to climate change impacts
- Develops tools to address potential extreme hazards to transport infrastructure
- Assess potential economic, social and environmental impacts and provide cost/benefit analysis of adaptation options
- Has a focus on geospatial applications (uses E-Road and E-Rail Census maps)
Infrastructure Costs

- Group of Experts on Benchmarking Transport Infrastructure Construction Costs (WP.5/GE.4)
- Identifies tools for evaluating infrastructure construction costs
- Identifies terminologies used for construction costs
- Collects data to benchmark construction costs, by country and transport mode
Infrastructure Costs

Examples of Cost Terminologies


Construction Works: Everything that is constructed or results from construction operations. Note 1 to entry: This covers both building and civil engineering works, and both structural and non-structural elements. Note 2 to entry: Adapted from the definition in ISO 6707-1 (2).

Construction Administration Cost: The normal cost of administration, management, reporting, design services in construction, and community outreach required in the construction phase of a project (4).

Construction Allowance: An amount of additional resources included in an estimate to cover the cost of known but undefined requirements for a construction activity or work item. A construction allowance is a normal cost (4).

SDG 9: How to Measure?

- 9.1.1: proportion of rural population who live within 2 km of an all-season road
  - How to measure? Not surveys; mapping and/or satellite data combined with road network information, plus population density data
- 9.1.2: Passenger and freight volumes, by mode of transport
  - How to measure?
    - Passenger km, goods vehicle-km (or ton-km), consistent across modes (using Glossary definitions)
    - Measured by UNECE for all transport modes except aviation and maritime
Summary

• UNECE works on improving infrastructure in countries by sharing information, best practices and comparison tools, and identifying networks for improvement

• Key passenger and freight volume statistics feed into measuring SDG 9.1.2
Suggestions? Comments?
We are here to help!

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