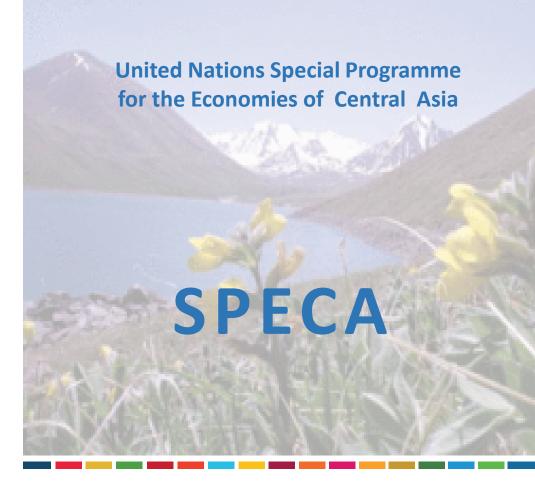
Development of SPECA TWG-STTC transport databases

Agenda item 4.6



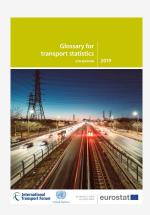
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UNECE Transport Statistics: Standards, Methodologies and Classifications

Working Party on Transport Statistics (WP.6)

- Transport Statistics Collection Programme
- E-Road Censuses
- Methodology: The Glossary
- Transport-related SDG monitoring



- UNECE Transport Statistics allow analysis of transport issues in the SPECA region and beyond.
- Producing them following international standards allows meaningful comparisons and analysis across countries. The Transport Statistics Glossary provides harmonized definitions. More cooperation with ESCAP would be welcome on this.
- UNECE Censuses allow corridor specific analyses and other localized focus.
- Transport SDG reporting can be improved, and UNECE is engaging on guidance for 9.1.2



Transport Common Questionnaire

Working Party on Transport Statistics (WP.6)

- Data are submitted by countries through an online questionnaire. Data can be entered manually (time consuming) or uploaded as a bulk file.
- Very detailed, +900 indicators for some countries.
- Purely a voluntary collection.
- Timeline: 2017 data requested in September 2018, checked and published by January 2019.
- Some countries have one focal point in NSO or MoT. Some have multiple contacts for each transport mode, in highway agencies, rail companies, NSO, MoT, Infrastructure agencies etc.



Road Traffic: E-Road Census

Working Party on Transport Statistics (WP.6)

unece.org/trans/areas-of-work/transport-statistics/statistics-and-data-online/e-roads/traffic-

census-map.html

 Conducted every 5 years on E-Road network, defined in the European Agreement on Main Traffic Arteries (AGR)

 Collects basic E-Road infrastructure data, and detailed mapped traffic numbers (Annual Average Daily Traffic)





Monitoring the Sustainable Development Goals

Working Party on Transport Statistics (WP.6)

- 3.6: Halving the number of road accident fatalities by 2020. TIER 1
- 9.1.2: Passenger and freight volumes (passenger-km and tonne-km) by mode. TIER I
- 11.2.1: Proportion of urban population with convenient access to public transport. TIER II
- Current indicator: proportion of population within 500 m of a transport stop.



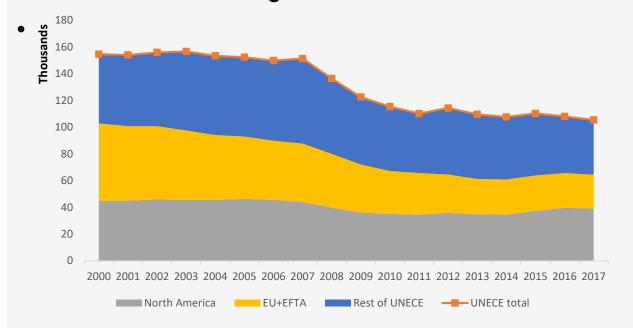


Examples of the collected transport statistics

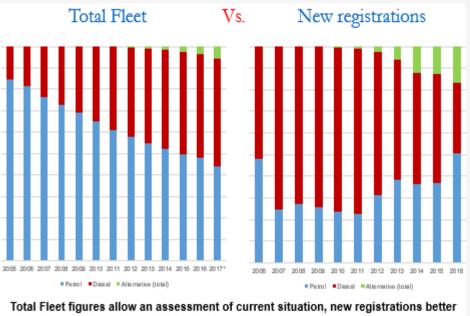
Working Party on Transport Statistics (WP.6)

Road deaths in ECE

- 3.6: ~8% reduction per year 2007-2010, but more flat since
- Positive trend masks huge differences between countries.



Car registrations (Norway)



show the direction of travel. N.B. hybrids included under petrol/diesel

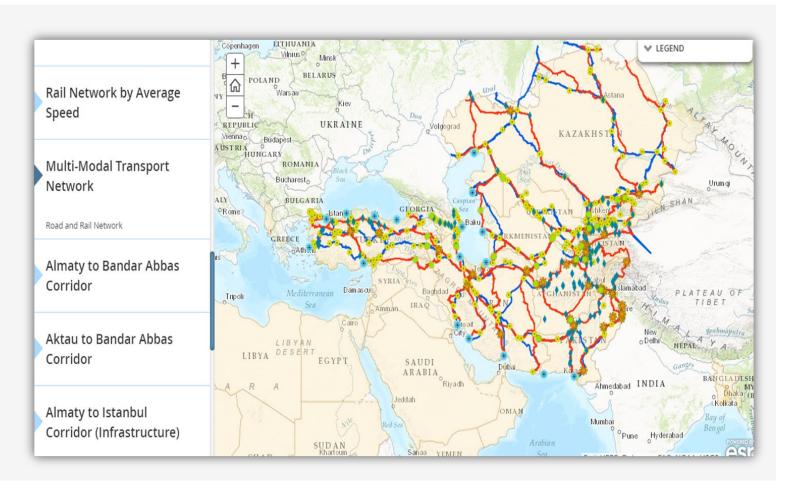


International Transport Infrastructure Observatory

Working Party on Transport Trends and Economics (WP.5)

Information for roads, railways, inland waterways, intermodal terminals, ports, border crossings







International Transport Infrastructure Observatory

Data available

ROAD NETWORKS

Motorways Express roads

Ordinary roads

Design speed (km/h)

Number of traffic lanes

Width of traffic lanes

Width of shoulders

Minimum width of the central reserve

Number of interchange points

Railway intersections

Vertical signs and road markings

Safety fences and barriers

Traffic control and user information

Traffic light signals

Emergency communication systems

Road lighting

Safety of pedestrians and cyclists

Protection of disabled persons

Protection from and of animals

Rest areas

Service areas

Toll areas

Traffic management systems

Emergency exits and access for

emergency services

Tunnel equipment

Cost of maintenance

Flows (e-census)

RAIL TRANSPORT:

Number of tracks

Vehicle loading gauge

Minimum distance between

track centres for passenger traffic only

Minimum distance between

track centres for passenger and

goods traffic

Nominal minimum speed for passenger traffic only

Nominal minimum speed for passenger and goods traffic

Authorized mass per axle: Locomotives (≤200 km/h) for passenger traffic only

Authorized mass per axle: Locomotives (≤200 km/h) for passenger and goods traffic

Authorized mass per axle: Rail cars and rail motor sets (≤300 km/h) for passenger traffic only

Authorized mass per axle: Rail cars and rail motor sets (≤300 km/h) for passenger and goods traffic

Authorized mass per linear metre for passenger traffic only

Authorized mass per linear metre for passenger and goods traffic

Test train (bridge design) for passenger traffic only

Test train (bridge design) for passenger and goods traffic

Maximum gradient for passenger traffic only

Maximum gradient for passenger and goods traffic

Minimum platform length

in principal stations

Minimum useful siding length

Comments

Cost of Maintenance

Flows (e-census)

Electrified

INTERMODAL TERMINALS

with Railways

with Highways

with Airport

with IWT

Customs Warehouses

Simple Warehouse

Logistics Warehouses

Open Warehouses

Trucks parking spaces

Rail stopping spaces

IWT PORT

Number of Rail Container

Cranes

Number of Rail Bulk cargo

Cranes

Number of Boat Container

Cranes

Number of Boat Bulk cargo

Cranes

Opening Hours

Logistics Services

Total Capacity in

Containers storage

Total Capacity in Bulk

Cargo Storage

General Description

Comments



Geographical Information Systems (GIS)

Source	Geographical data available	Overview
UNECE	EATL corridors data Ports Inland waterways Roads (E roads when applicable) Rails (E rails when applicable) Scale: world to region	
Euro Global Map	Inland waterways Ports Roads (E roads when applicable) Rails Ferry lines and stations Rail stations Airports Point of entrance or exit (outside Schengen area only) Scale: world to cities	



GIS projects related to rail and intermodal transport

Road and Rail censuses

- Based on data gathered from Member States in 2005, 2010 and 2015
- Annual average daily traffic https://arcg.is/1yHCmH

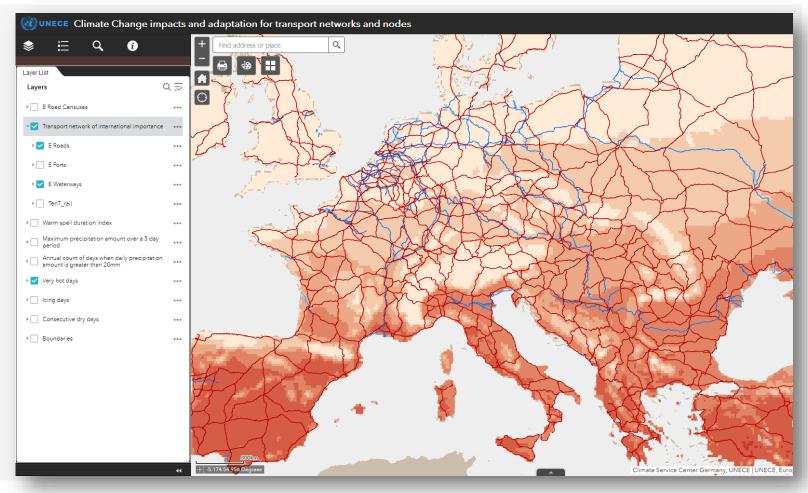




GIS projects related to rail and intermodal transport

Climate change impact on transport infrastructure

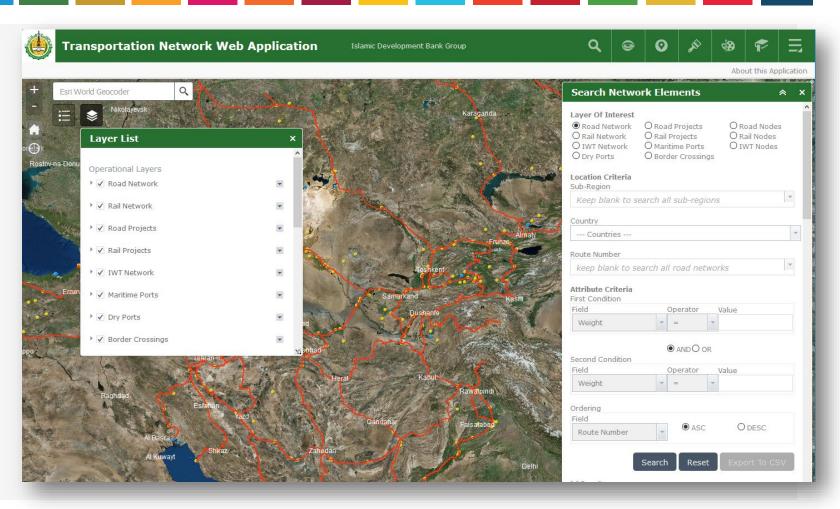
- Climatic data (current, projections)
- Transport networks (railways, roads, waterways, ports...)





GIS projects related to rail and intermodal transport

- Islamic Development Bank project
- Data collected through national focal points of common member States
- A strong GIS component
- Establishment of inter-agency partnership mechanisms





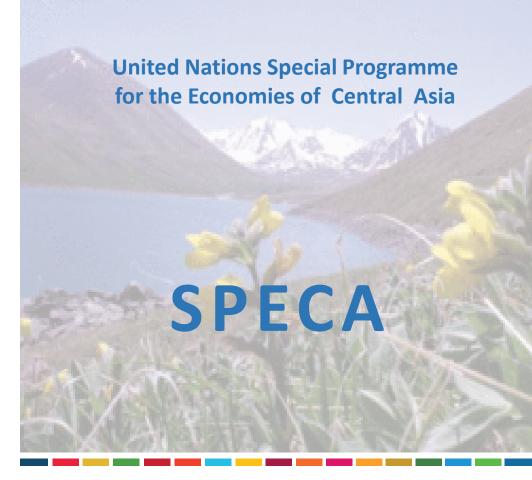
Thank you!

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UNECE Sustainable Transport Division



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