



WP.5 activities of relevance to SC.1

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Working Party on Transport Trends and Economics
Sustainable Transport Division

Working Party on Road Transport (SC.1), 117th Session
Geneva, 18 October 2022

Outline



- I. WP.5/GE.4 **Benchmarking of Transport Infrastructure Construction Costs** – Final report available
- II. WP.5 Analytical work: **“Taking stock of new trends towards Electrical Vehicle Charging Infrastructure”**
- III. WP.5 administered tools: **International Transport Infrastructure Observatory (ITIO)** and **Sustainable Inland Transport Connectivity Indicators (SITCIN)**
- IV. WP.5 led **international contingency management** efforts – in follow up to COVID-19 advisory group

I. Benchmarking transport infrastructure construction costs – GE.4 final report

WP.5 adopted the GE.4 final report [ECE/TRANS/WP.5/2022/6](#) and requested the secretariat:

“To explore avenues to continue these efforts, including on maintenance costs of transport infrastructure e.g. in the framework of the TEM and TER projects”

“To upload the analysis and data findings of GE.4 onto ITIO and to create as part of ITIO automated dashboards that would allow Governments, in a secured IT environment, to continue sharing information about transport infrastructure costs.” and “To issue the report as a UN publication”

II. Analytical work: EV charging infrastructure

Mandate: The UNECE Inland Transport Committee at its 84th session requested WP.5: *“To take into consideration the new trend towards electric charging infrastructure and, in coordination with the chairs of relevant Working Parties, to prepare a first assessment of issues that need addressing in the realm of the Committee to be presented at its eighty-fifth session”*

[ECE/TRANS/WP.5/2022/2](#) [combined effort of Sustainable Transport and Sustainable Energy Divisions with the support of the Housing and Land Management Section]

Trends (passengers)

Road vehicle demand in OECD countries stabilizes BUT continues to increase globally *[in the baseline scenario motorized mobility and related CO2 emissions in cities will grow by 94 per cent and 27 per cent by 2050 compared with 2015, Source ITF]*

Innovative mobility solutions on the increase *[car sharing, carpooling, MaaS, increasing role of digitalization, autonomous driving vehicles etc.]*



Trends (road freight)

In 2020, road freight transport in the EU accounted for 77.4 per cent of the total inland freight transport (Source: Eurostat, 2020)

Road freight continues to offer high levels of flexibility and accessibility and will thus remain a crucial driver of supply chains

Major trends include: digitalization and technological innovations, including in fuelling systems

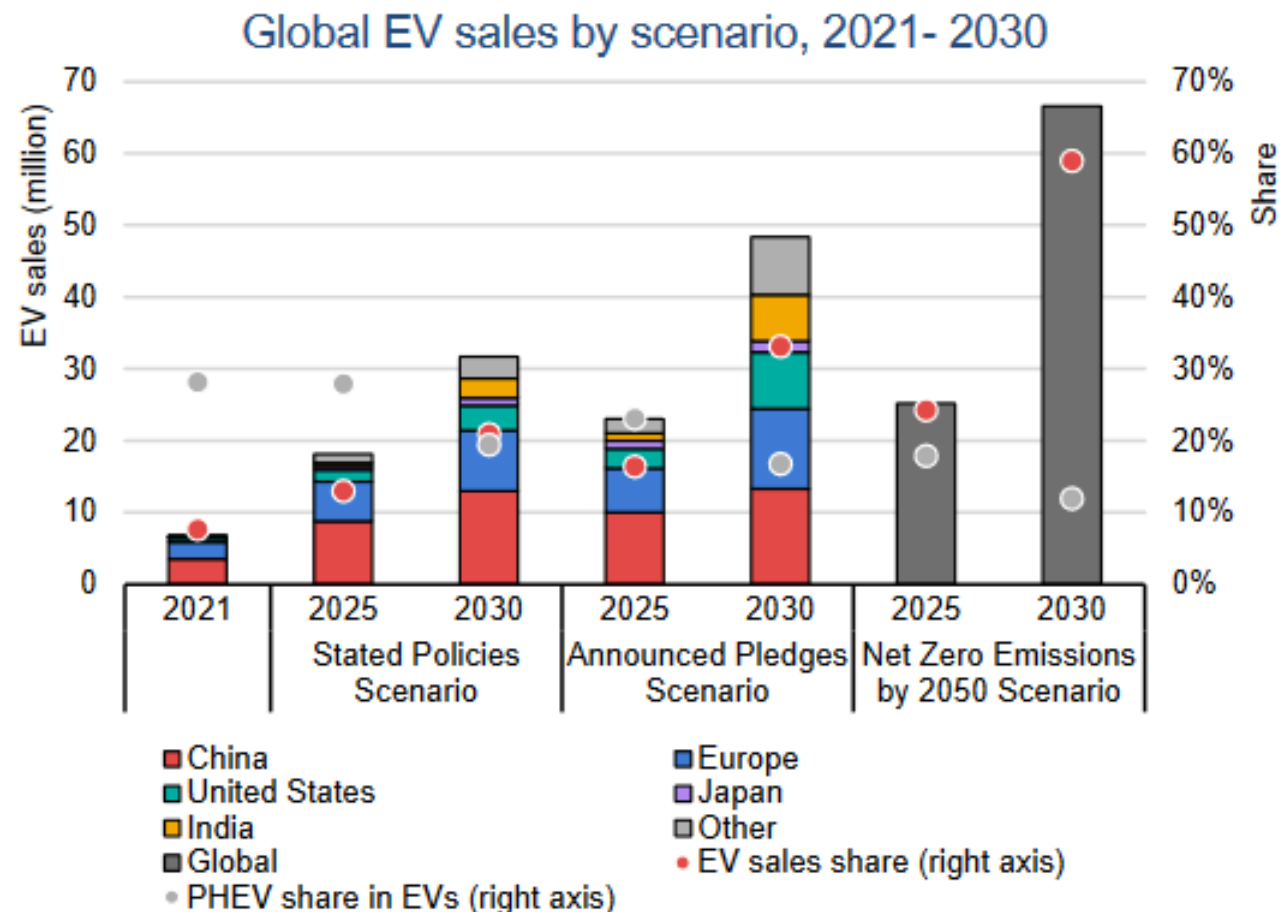


Road vehicle electrification outlook and its impact on EV charging infrastructure

By 2030, 65 million EVs on the road and by 2035 130 million EVs

Today 374,000 public charge points in Europe

Public charge points to be increased to 13 million (in 2025) and 65 million by 2035 (for 130 million EVs)





Impact on the grid

EVs provide a unique interface between the transportation and energy sectors presenting challenges and opportunities

Determining factors:

- Availability of sufficient infrastructure and charging infrastructure at various levels: slow; medium and fast; ultra-fast/ hyper charging
- Availability or lack of smart charging solutions (V2G, V2H, V2B and V2X) interaction with the grid mechanisms
- Innovations in battery development
- Availability of standardized and harmonized e-charging protocols and standards

Defining a stronger role for ITC

Preliminary recommendations:

[ECE/TRANS/WP.5/2022/2](#)

Paras **41 and 42**, recommendations for WP.5, **SC.1**, WP.24, WP.29 etc.

- Develop a workflow on general trends for commercial EVs including eLDVs and eHDVs and their charging infrastructure
- Security aspects of EVCS, including cyber threats and/ or physical security (2023 workshop)



III. International Transport Infrastructure Observatory



What is it about?

- A GIS platform hosting data on transport infrastructure networks and nodes across different modes including road, rail, IWW, ports, airports, intermodal terminals, logistics centers and BCPs
- Operates as a virtual marketplace for financing transport infrastructure by providing an electronic interface between MDBs and Governments
- Promotes regional and inter-regional cooperation between and among transport infrastructure initiatives

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ITIO-GIS.org

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ITIO International Transport
Infrastructure Observatory

The United Nations GIS center for transport infrastructure

The International Transport Infrastructure Observatory is an initiative of UNECE Sustainable Transport and Islamic Development Bank. It is a multi-stakeholder, web-based GIS platform which hosts data on a large variety of transport infrastructure networks and nodes across different modes including road, rail, inland waterways, ports, airports, intermodal terminals, logistics centers and border crossing points.

III. Sustainable Inland Transport Connectivity Indicators



Visit us



SITCIN.org

What is it about?

- A tool for Governments to better understand the performance of their road, rail, inland waterway, and inter-modal transport systems
- A self-assessment process enabling Governments to evaluate the extent to which they implement the relevant UN legal instruments in the field of transport and the degree to which their inland transport systems are inter-operable with those in neighbouring countries

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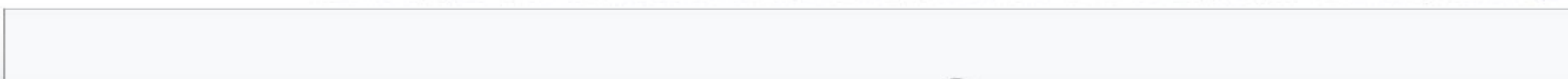
SITCIN

The SITCIN provide a tool enabling countries to measure their degree of inland transport connectivity



The indicators provide an instrument

A set of measurable criteria, for Governments enabling them to evaluate the extent to which they implement the relevant UN legal instruments, agreements and conventions effectively and the degree to which their inland transport systems are inter-operable with



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Learn
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Welcome to the Sustainable Inland Transport Connectivity Indicators e-learning



SITCIN eLearning
Course

Available at:

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In English, French & Russian

Sustainable Inland Transport Connectivity Indicators

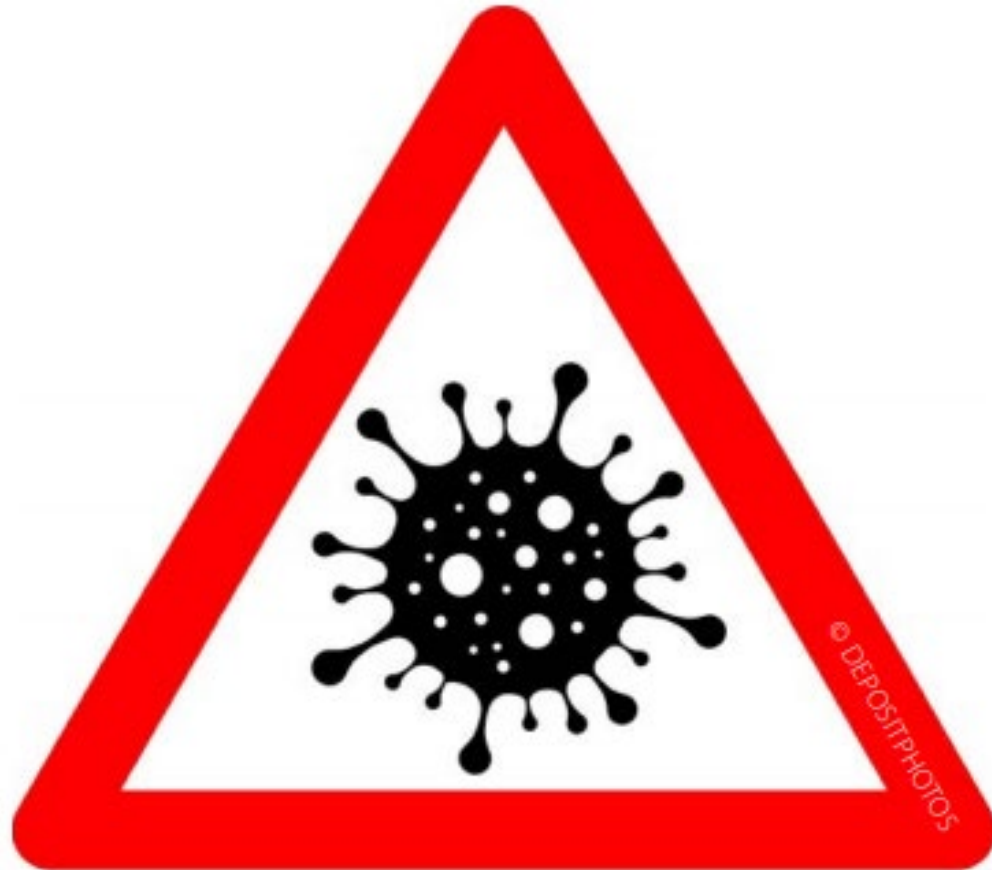
Understanding the performance of road, rail,
inland waterway, and inter-modal transport systems



[Publication E-
version](#) (click
through)

IV. International contingency management

Follow-up to COVID-19 Advisory Group



- *2021 - WP.5 requested: a concept note on contingency planning for rail as well as road and inland waterways for the forthcoming ITC session*

[ECE/TRANS/WP.5/2022/4](#)

- *2022: WP.5 requested: to identify pilot countries on a shared corridor interested in jointly developing an ICM approach*
- *Any interest in SC.1 from the road sector perspective?*

Thank you for your attention!

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