Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

111th session Geneva, 9 - 13 May 2022

13 May 2022

Item 8 of the provisional agenda

Any other business

Sustainable Inland Transport Connectivity Indicators

Sustainable Inland Transport Connectivity Incicators

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

Mr. Roel Janssens Secretary – Working Party on Transport Trends and Economics 12 May 2022



Global context



- High degree of economic connectivity and interdependence
- Lack of a unified methodological approach to measure the degree to which economies are inter-connected in terms of inland transport, trade and logistics networks
- Economic connectivity is high on the political agenda of countries around the world, in particular LLDCs



UNDA SITCIN Project













SITCIN Project phases 2018 -2021



- I. Develop the initial set of Sustainable Inland Transport Indicators (SITCIN)
- II. Fact-finding missions to review national transport and logistics situation, resulting in five «national connectivity reports»
- III. National policy dialogue meetings to validate the reports
- IV. Tailor-made national capacity building programmes
- V. Concluding inter-regional forum / regional outreach events

Rationale and purpose



- Measurable/ quantifiable & qualifiable
- Build on and incorporate existing indexes, e.g. World Bank Doing Business Indicators, Logistics Performance Index, Air Connectivity Index, Liner Shipping Connectivity Index etc.
- Assess efficiency of both soft (e.g. regulatory framework) and hard (e.g. infrastructure) related aspects of the respective inland transport systems
- Connectivity and interoperability both bilaterally/subregionally
- Holistic scope incl. multi-modal transport and logistics systems, border crossing facilitation, transit, customs
- Provide basis for informed & evidence based policy-making

SITCIN criteria –regulatory framework





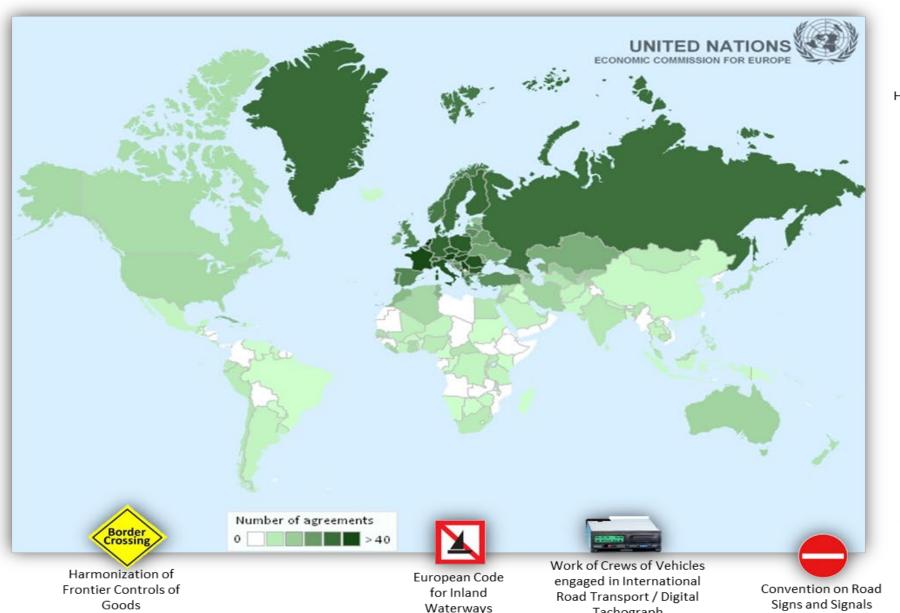






Contract for the International Carriage of Goods by Road





Tachograph



World Forum for Harmonization of Vehicle Regulations (WP 29)



International Carriage of Dangerous Goods by Inland Waterways





International Carriage of Dangerous Goods by Road



Infrastructure Agreements for roads (AGR), Rail (AGC), Inland Water Transport (AGN), Intermodal Transport (AGTC)

SITCIN criteria – international commitments





















16 PEACE, JUSTICE AND STRONG











VIENNA PROGRAMME OF ACTION ANDLOCKED DEVELOPING COUNTRIES **FOR THE DECADE 2014–2024**







A comprehensive inland transport sector assessment tool



Full set of 215 indicators covering road, rail, inland waterways and intermodal transport available here and here

What is it about?

- A tool for Governments to better understand the performance of their road, rail, inland waterway, and inter-modal transport systems
- An online self-assessment methodology 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
- Ranking from 0-10/ generating a cluster based and an overall "connectivity" score

SITCIN – assessment scope



Mode	Pillar	Thematic clusters
ROAD, RAIL, IWW	Economic	Efficiency
		Cost
		Infrastructure
		Operations
		Intermodality/combined transport
		ICT and ITS Solutions
	Social	Road traffic rules/behavior
		Road traffic infrastructure
		Vehicle regulations
		Perishable foodstuffs transport
		Dangerous goods transport (administrative)
		Dangerous goods transport (infrastructure)
	Environmental	Fleet
		Emission

E.g. border crossing efficiency



- ✓ TIR Convention
- ✓ Harmonization Convention
- ✓ In total: 16 UNECE conventions related to border crossings



- ✓ Staff resources
- ✓ Availability of joint control facilities
- ✓ BCP infrastructure/ off-lane control areas
- ✓ Inland clearance and control procedures
- ✓ Coordination and delegation of controls among border agencies/ domestically, bilaterally
- ✓ Data exchange mechanisms
- ✓ Traffic separation for vehicles under cover of customs transit
- ✓ Average border clearance time
- ✓ Etc.

E.g. transport infrastructure



- ✓ Actual construction
- ✓ Actual capacity (volumes, TEU, etc.)
- ✓ UNECE infrastructure agreements



- ✓ Percentage of international road network
- ✓ Length of international road network per class
- ✓ Design standard and technical specifications of new international roads
- ✓ Sufficiency of service facilities
- ✓ Provision of tunnel management systems
- ✓ Provision of safety equipment for tunnels
- ✓ Etc.

E.g. Dangerous goods transport



Ca. 20 Indicators

1-SO-5: DANGEROUS GOODS

TRANSPORT – ADMINISTRATIVE

REQUIREMENTS

1-SO-5.1: General provisions for the

transport of dangerous goods

by road

1-SO-5.1a: Classification of dangerous goods for transport

Definition:

Degree of harmonization of internationally/regionally agreed provisions on the classification of dangerous goods for transport, in the national laws and legislations.

Scoring:

- In accordance with internationally agreed provisions: 10 points
- In accordance with regionally agreed provisions:
 5 points
- Not recognizing international/regional provisions or no national law applied: 0 points

1-SO-5.1b: Marking and labelling of packaging

Definition:

Degree of harmonization of internationally/regionally agreed provisions on marking and labelling of packages of dangerous goods, in the national laws and legislations.

Scoring:

- In accordance with internationally agreed provisions: 10 points
- In accordance with regionally agreed provisions:
 5 points
- Not recognizing international/regional provisions or no national law applied: 0 points

1-SO-5: DANGEROUS GOODS

TRANSPORT – ADMINISTRATIVE REQUIREMENTS (continued)

1-SO-5.1c: Placarding and marking of containers and vehicles

Definition:

Degree of harmonization of internationally/regionally agreed provisions on placarding and marking in the national laws and legislations. It concerns placarding and marking of all types of containers and vehicles for the transport of dangerous goods.

Scoring:

- In accordance with internationally agreed provisions: 10 points
- In accordance with regionally agreed provisions:
 5 points
- Not recognizing international/regional provisions or no national law applied: 0 points

E.g. Dangerous goods transport



1-SO-6: DANGEROUS GOODS

TRANSPORT – INFRASTRUCTURE/ HARDWARE REQUIREMENTS

1-SO-6.1: Application of tunnel categorization

Definition:

Degree of harmonization of internationally/ regionally agreed rules in the national law on tunnel categorization when applying restrictions to the passage of vehicles carrying dangerous goods through tunnels. According to ADR, there are five tunnel categories that define the degree of restrictions for the carriage of dangerous goods.

Scoring:

- The applied tunnel categorization is developed based on internationally agreed rules (ADR): 10 points
- The applied tunnel categorization is developed based on regionally agreed rules: 5 points
- The applied tunnel categorization is partially developed based on internationally/regionally agreed rules: 3 points
- The applied tunnel categorization is deviating from the internationally/regionally agreed provisions or no categorization in place: 0 points

1-SO-6: DANGEROUS GOODS

TRANSPORT – INFRASTRUCTURE/ HARDWARE REQUIREMENTS

(continued)

1-SO-6.3: Requirements concerning the construction and approval of

vehicles

Definition:

Degree of harmonization of internationally/ regionally agreed provisions in the national law on the requirements of vehicles for the transport of dangerous goods, as regards their construction, type approval, ADR (Agreement concerning the International Carriage of Dangerous Goods by Road) approval and annual technical inspection.

Scoring:

- The vehicles requirements are developed based on internationally agreed provisions (ADR): 10 points
- The vehicles requirements are developed based on regionally agreed provisions: 5 points
- The vehicles requirements are deviating from the internationally/regionally agreed provisions or no requirements in place: 0 points

1-SO-6.2: Availability of information on tunnel categorization

Definition:

Availability of information on tunnel categorization (including road signs and signals), notifications of tunnel prohibitions/restrictions and alternative routes for transport of dangerous goods.

Scoring:

- Information is publicly available and accessible for free: 10 points
- Information is available against a fee or not publicly available: 0 points



Become a SITCIN test user



Forthcoming – June 2022

Sustainable Inland Transport Connectivity Indicators

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







Visit us



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SITCIN e-learning course



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SITCIN - Sustainable Inland Transport Connectivity Indicators

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Thank you for your attention!

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