

Standardisation and Interoperability

Josef Doppelbauer | ERA Executive Director Tuesday 04 October 2022







The European Union Agency for Railways (ERA)

- Founded in 2004 by the Regulation (EC) 881/2004
- Tasks defined in the new Regulation (EU) 2016/796
 (4th Railway Package)
- Approximately 200 staff members
- Headquarters in Valenciennes (FR) (meeting facilities in Lille)
- Railway Interoperability (TSIs), Safety
- Since June 2019, European authority for Vehicle Authorisation,
 Safety Certification, ERTMS Trackside Approval











CROSS-BORDER RAIL IN EUROPE

Fragmentation impairs attractiveness and competitiveness of rail.

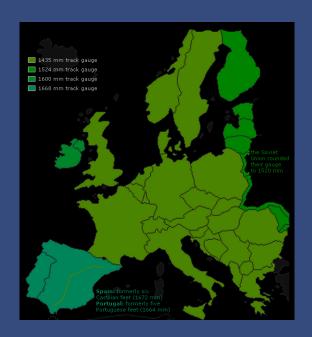


- Operational link: only freight or touristic services
- Non-operational (historic) link
- Redundant historic link for public rail transport
- Proposed or projected new infrastructure link

Source: European Commission, Comprehensive analysis of the existing cross-border rail transport connections and missing links on the internal EU borders, Final report, March 2018



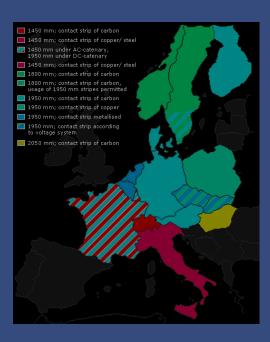
Interoperability Issues in Europe



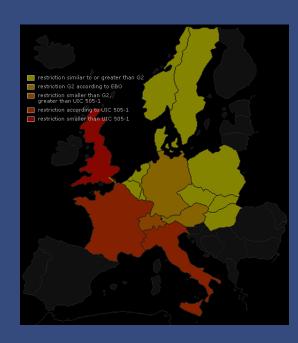
Track gauge



Catenary voltage Signalling systems

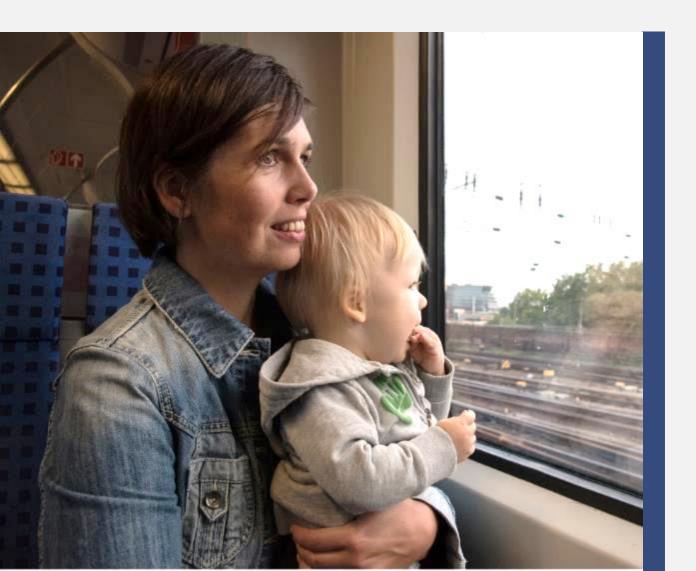


Pantograph width



Clearance profiles





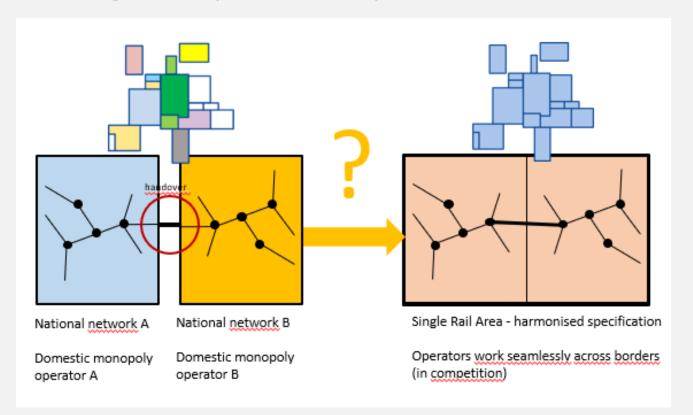
OUR MISSION

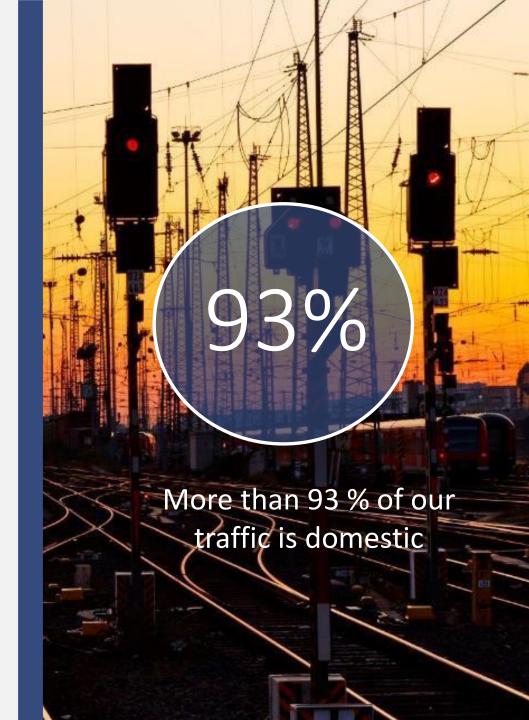
Moving Europe towards a sustainable and safe railway system without frontiers.



SERA

The Single European Railway Area







THE MANDATE OF ERA

Recommendations to the Commission

Technical Specifications for Interoperability (TSIs) Common Safety Methods (CSMs) Registers (Infrastructure, Vehicles, National Rules, ...)

Technical development in Railway Safety

Risk management and safety management systems Monitoring Safety culture and safety leadership Human and organisational factors Accident investigation methodologies

Assistance to Member States and the EC

Dissemination on railway safety and interoperability Training courses

Interface between NSA Supervision and Agency Authorisations and Certifications Other support activities on request of the stakeholders





NEW ERA TASKS UNDER THE 4th RAILWAY PACKAGE

Transposition completed 31.10.2020

Authorisation and Certification

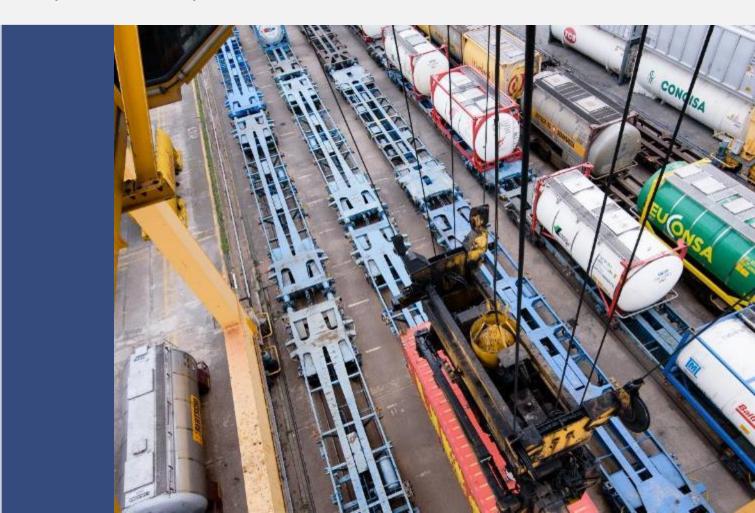
Safety Certification for Cross-border operation (mandatory)
Safety Certification for national operation (voluntary)
Vehicle Authorisation

Approval

ERTMS trackside approval

Monitoring

National Safety Authorities, against a compliance scheme or a maturity model Notified Bodies (audits and inspections)





FACTS AND FIGURES

As of 27 September 2022

Facts & Figures 01 September 2022

racts a rigares of september 2022		
Vehicle Authorisations	Single Safety Certificates	ERTMS Trackside Approvals
3 718 delivered* representing in total 42 984 vehicles	106 Delivered	3 Delivered
123 projects ongoing	32 projects ongoing	78 projects ongoing
Delivery for conformity-to-type with median of 2.70 working days in August 2022	Delivery within an average time of 5,6 months (including extensions of timeframe)	

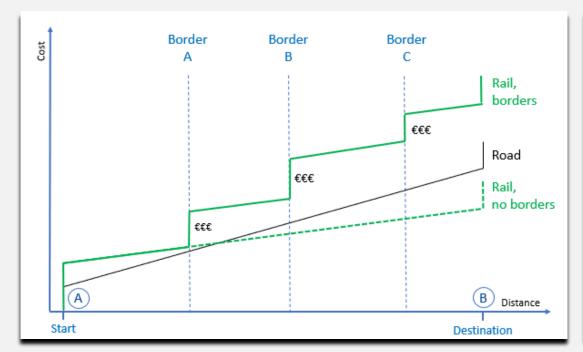
* 3400 conformity-to-type decisions; 318 pre-engagement baseline opinions and other auhorisation case decisions

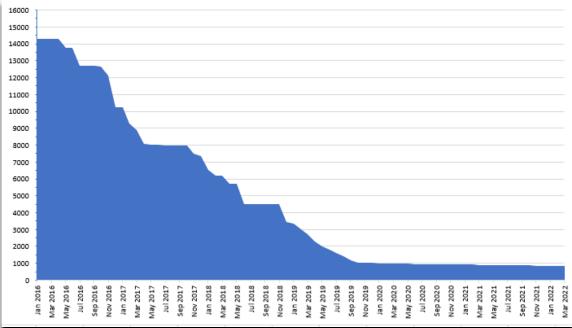




The strategic role of ERA

- ERA has a strategic contribution within the field of National Rules (NR) in order to make cross-border freight trains (also carrying military assets) faster
- National Rules cause delays and additional costs
- Vehicles: from 14 312 NR in Jan 2016 to 849 NR in March 2022







TSI REVISION PACKAGE 2022

The tool for sustainable railways.

The Agency prepares Technical Specifications for Interoperability under a mandate from the European Commission, received by ERA on 24 January 2020. It covers 74 topics and will be delivered in June 2022.

Game changers

- modularity
- introduction of ATO (GoA2)
- provision for future FRMCS capability

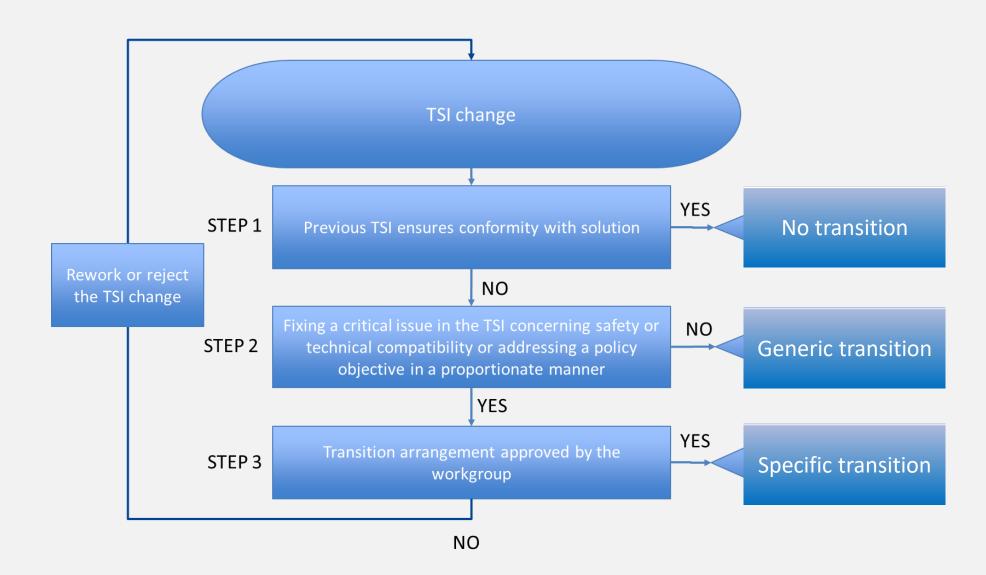
Error corrections

Stronger and more clear obligations on ERTMS deployment





TSI transition regime for rolling stock TSIs 1 – TSI change categorisation







THE OPPORTUNITY

Rail can become the most relevant mode of transport of the 21st century

CUTTING COST

- Standardisation
- ERTMS
- Common and simplified operational procedures
- Swift implementation of Fourth Railway Package

INCREASING QUALITY

- Putting the customer first
- Network resilience and flexibility
- Environmentally friendly, optimised use of urban spaces and development

FOSTERING INNOVATION

- Collaborating to make rail more competitive
- Knowing the opportunities and risks of digitalisation



The Potential

Modal shift potential from long-distance Road to Rail Freight (no Road Freight for > 700 km)



See also: Study analyses transhipment options for more competitive intermodal transport and terminal capacity on TEN-T network, DG MOVE, May 2022

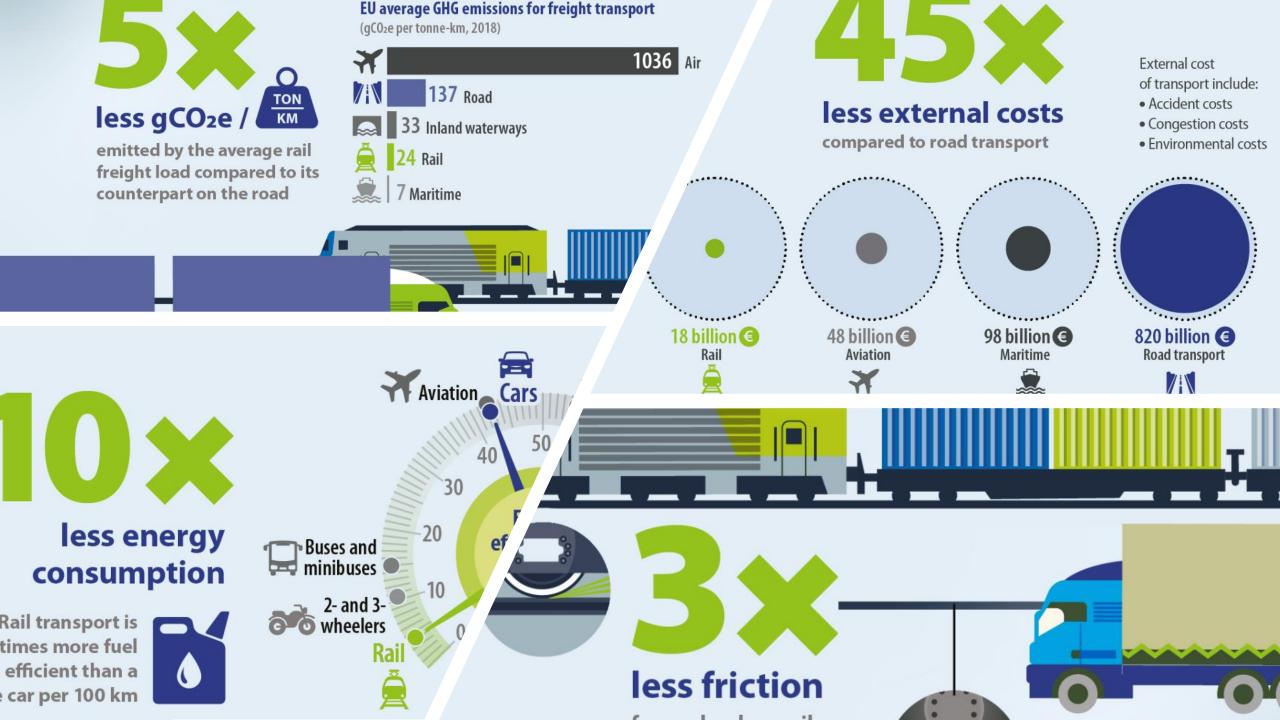
36 %

Rail Market Share – if long distance road freight is substituted by rail

Saving

40 million

tonnes CO2 per year





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