

# Looking Forward

## Capacity building for TDG by Rail

TCT TDG Technical Committee | 2 March 2023

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EUROPEAN  
UNION  
AGENCY  
FOR RAILWAYS



# The Facts

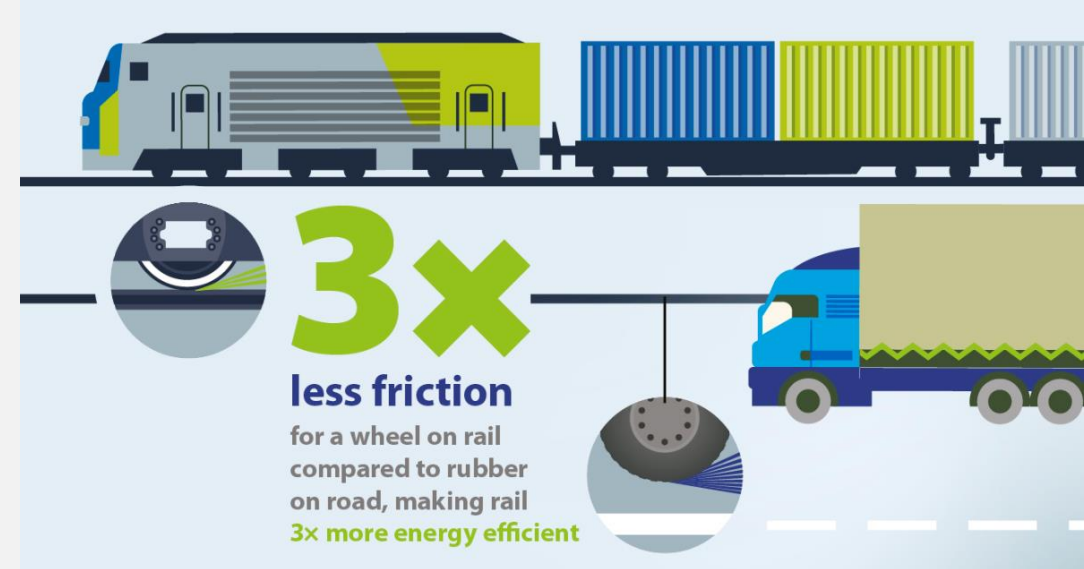
# 5x

less gCO<sub>2</sub>e /



emitted by the average rail freight load compared to its counterpart on the road

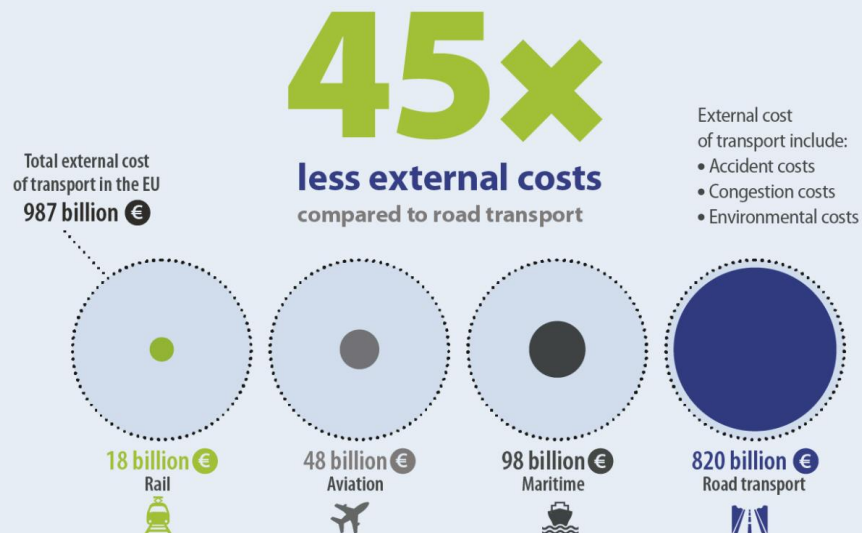
EU average GHG emissions for freight transport  
(gCO<sub>2</sub>e per tonne-km, 2018)



## Benefits of Rail:

The greenest mode of transport

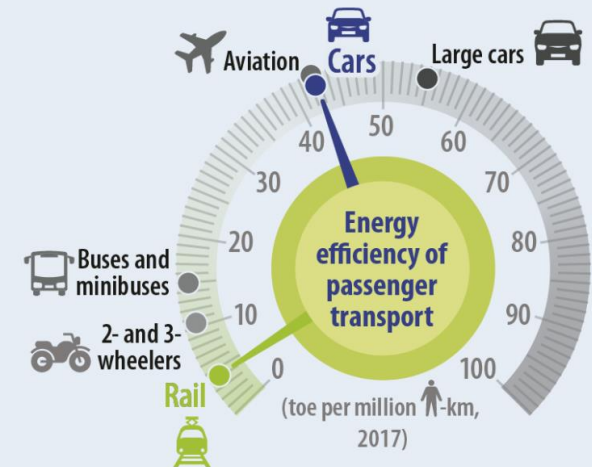
*Numbers talk ...*



# 10x

less energy consumption

Rail transport is 10 times more fuel efficient than a private car per 100 km



# The Potential



# 36 %

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

Saving

40 million  
tonnes CO<sub>2</sub>  
per year

# The Challenges

+100%

Increase in freight traffic by  
2050



Railway Infrastructure  
Investments and Maintenance

500K

Foreseeable number of freight  
wagons and locos retrofitted with  
Digital Automatic Coupling  
(including RID wagons)



Still accidents occur...  
... Safety improvements depend  
on Safety Culture  
and Data Sharing

>15

Relevant EU acquis  
linked to safe operation  
for Transport of Dangerous Goods  
by Rail



Each actor implement  
its own role  
within  
a  
shared railway system



# ERA 2023-2025 PROGRAMMING PERIOD

Full-fledged performance of the Agency's tasks as **EU-wide authority** for safety certification, vehicle authorisation and **ERTMS** trackside approval, as foreseen in the Technical Pillar of the Fourth Railway Package

**Policy tasks** contributing to EU railway development by **enhancing the level of interoperability** on the Union rail system and by developing Union legislation on a **common approach to safety**



# A Railway Authority in action

## Facts & Figures December 2022

Vehicle Authorisations	Single Safety Certificates	ERTMS Trackside Approvals
<p><b>4 420*</b> delivered representing in total</p> <p><b>47 636</b> vehicles</p>	<p><b>131</b> Delivered</p>	<p><b>4</b> Delivered</p>
<p><b>78</b> projects ongoing</p>	<p><b>34</b> projects ongoing</p>	<p><b>84</b> projects ongoing</p>
Delivery for conformity-to-type with median of 3.89 working days in December 2022	Delivery within an average time of 5,4 months	

\*4086 Vehicle Authorisations in Conformity to Type, 251 Vehicle Authorisations and 83 Pre-engagement opinions



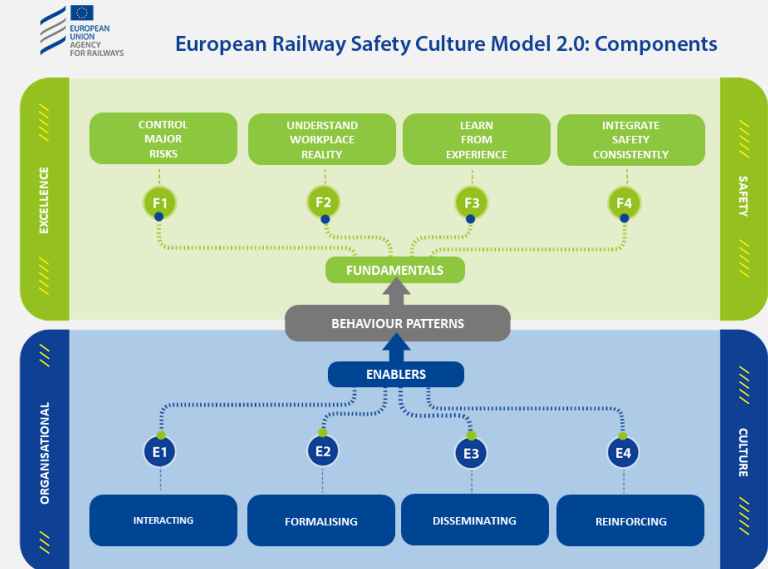
# EU Railway Safety Culture

A model supporting Common Safety Methods

**Common Safety Method ASLP will establish the digitalization of rail safety data, and will facilitate further safety improvements.**

## It will:

1. support operators in implementing effective Safety Management Systems;
2. support operators in monitoring of information relevant for maintaining and improving safety;
3. facilitate the sharing of relevant safety information between operators;
4. facilitate efficient safety-oriented / risk-based decision-making at all levels, including the implementation of the CSM on risk assessment and evaluation;
5. facilitate the effective supervision of the operators by NSAs and TDG CA at national level;
6. facilitate the sharing of relevant safety information on national and Union levels;
7. facilitate monitoring and harmonised safety development at Union level.





# Building Capacity

A challenge for each actor

When a challenge is big, understand the context, cut problems in pieces, prioritise actions, and achieve milestones...

One by one...





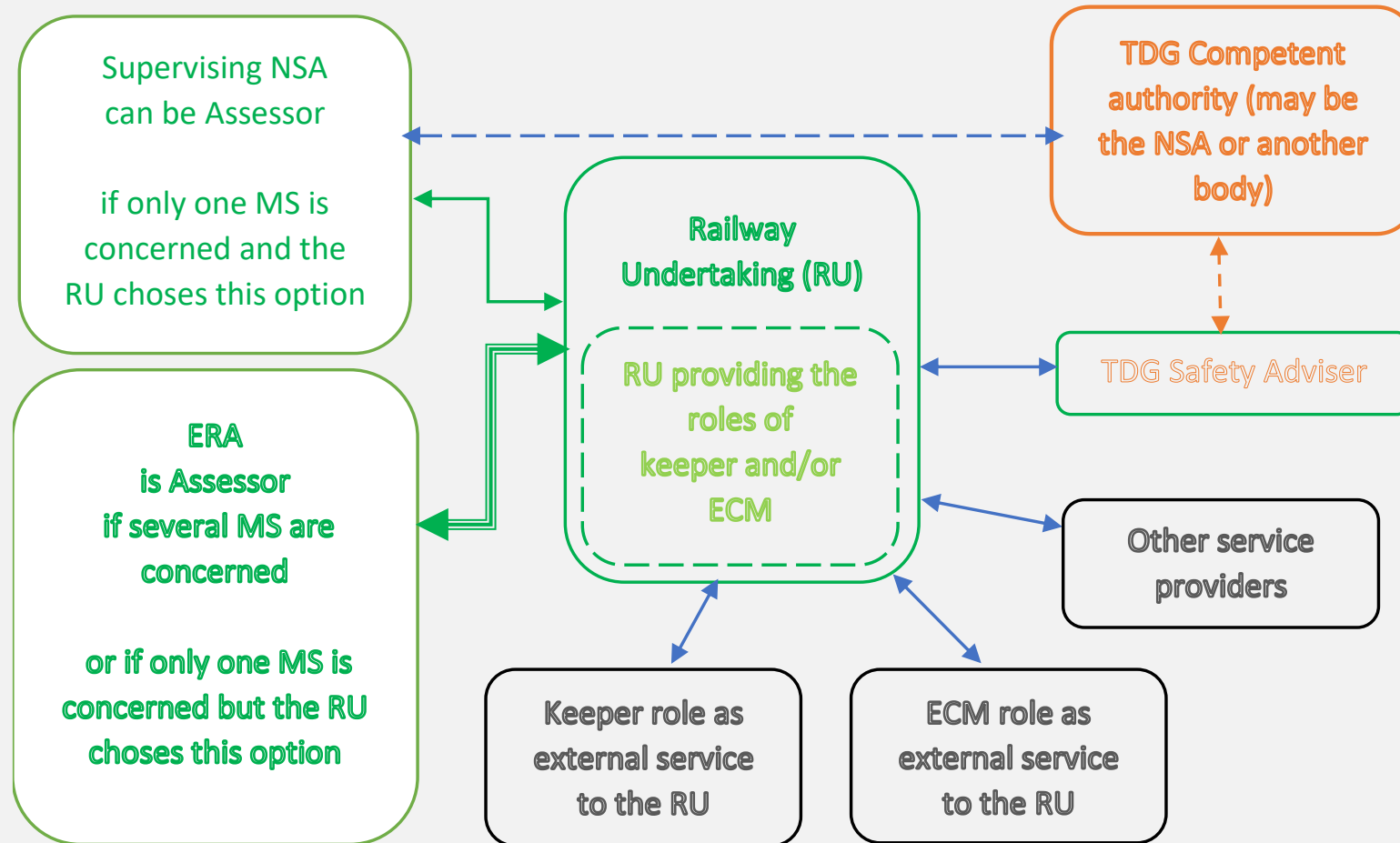
# Roles and obligations

15 EU relevant legislative texts interfacing with RID

	Administrative actor	Responsible actor	Applicant (subject) actor	Contributing actor (or service providers)	Informed actor (sharing of information)
1. Risk evaluation and assessment	AsBo	IM RU ECM		SAFETY ADVISOR	
2. Safety Management Systems		IM RU ECM		SAFETY ADVISOR	
3. Safety authorisation of the infrastructure manager		NSA	IM	SAFETY ADVISOR	TDG CA
4. Safety certification of a railway undertaking		ERA NSA	RU	SAFETY ADVISOR	TDG CA
5. Monitoring of SMS functioning		IM RU ECM SAFETY ADVISOR			
6. Assessment of operators' safety (inc. new CSM ASLP)		ERA	IM RU	NSA SAFETY ADVISOR TDG CA	NSA NIB TDG CA
7. Supervision of SMS implementation		NSA	IM RU	SAFETY ADVISOR TDG CA	
8. Emergency situation management (planning)		IM RU		NSA SAFETY ADVISOR TDG CA Emergency services	
9. Reporting of occurrences (inc. new CSM ASLP)	ERA	IM RU ECM		NSA SAFETY ADVISOR TDG CA NIB	TDG CA
10. Investigation of occurrences	ERA	NIB		IM RU SAFETY ADVISOR + other as needed	EU-MS OTIF
11. National rules	EC ERA	EU-MS		TDG CA	
12. Certification of tanks		TDG CA TDG CA InsBo	APPLICANT MANUFACTURER		
13. Vehicle authorisation of tank-wagons	ERA	ERA NSA	APPLICANT	NoBo	TDG CA
14. Registration of tank-wagons	ERA	NSA	APPLICANT	RU KEEPER	TDG CA
15. Maintenance of tank-wagons	AccBo RecBo NSA	ECM		RU KEEPER SAFETY ADVISOR InsBo	TDG CA

# Actors' interfaces

## Example of the Certification of Railway Undertakings





# Looking Forward

## Into your needs...



# Your Priorities?

Tell us, then we will focuss the right assistance on the right topics...

**Day/Month/Year**

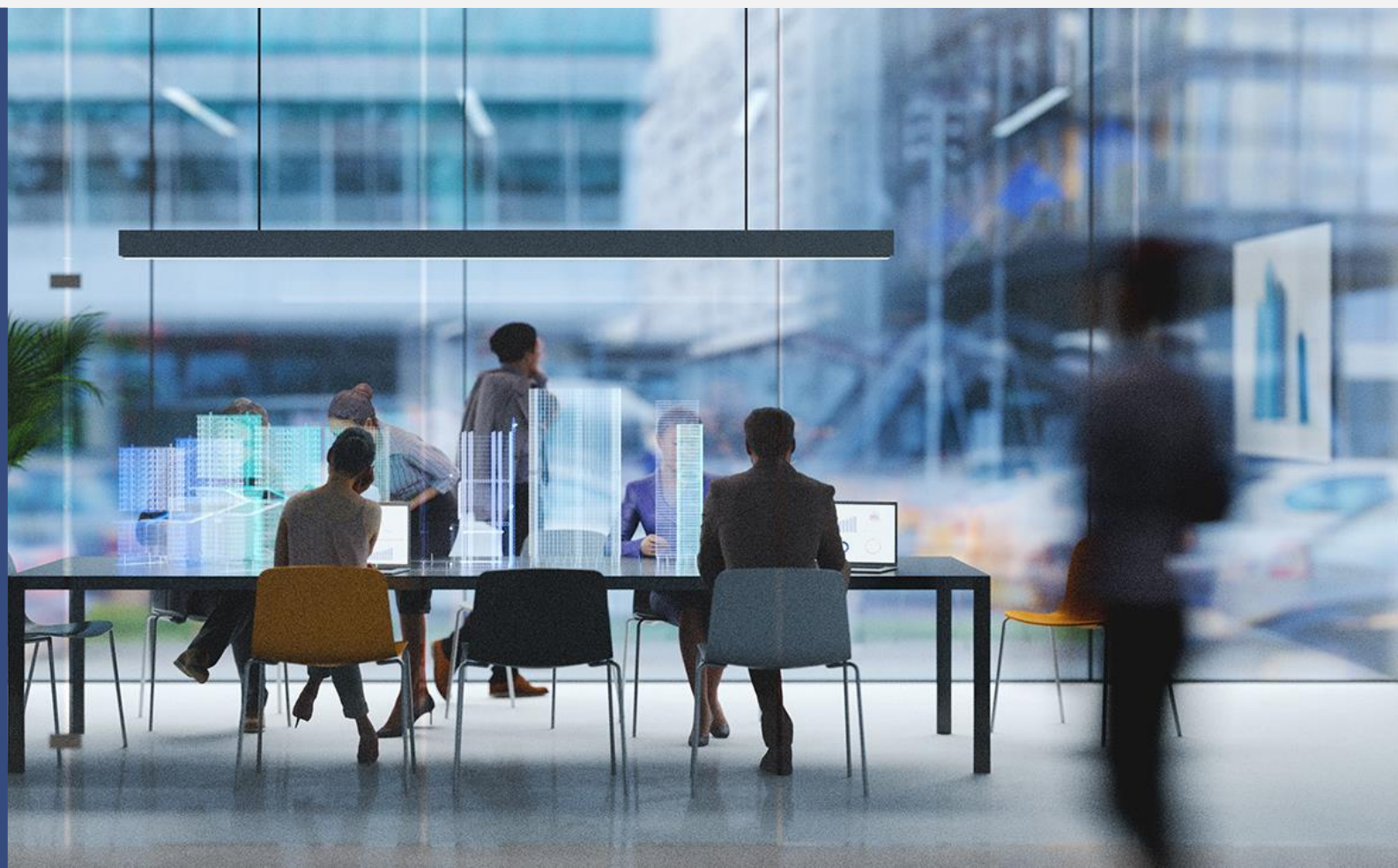
Topic 1, target to be achieved

**Day/Month/Year**

Topic 2, target to be achieved

**Day/Month/Year**

Topic 3, target to be achieved







# THANK YOU

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

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