



# **S2R, EUAR and Interoperability**

# A coordinated approach to EU rail Research

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## S2R JU Regulation, the Joint Undertaking role:

play a major role in rail-related research and innovation, ensuring coordination among projects and providing all stakeholders with relevant and available information on projects funded across Europe. It shall also manage all rail- focused research and innovation actions co-funded by the Union

## EUAR Regulation, the Agency role:

contribute to railway research activities at Union level, including by providing support to relevant Commission services and representative bodies.

The Commission may entrust the Agency with the task of promoting innovation aimed at improving railway safety and interoperability, particularly the use of new information technologies, timetable information and tracking and tracing systems.

# The Agency role in S2R

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## **Contribute to the definition and implementation of the S2R Master Plan, in particular by performing the following advisory tasks:**

- proposing possible amendments to the S2R Master Plan and to the annual work plans, in particular to ensure that research needs relating to the realisation of the Single European Railway Area are covered;
- proposing, after consultation with the stakeholders, guidelines for research and development activities leading to technical standards with a view to guaranteeing the interoperability and safety of results;
- reviewing the common developments for the future system and contributing to defining target systems in regulatory requirements;
- reviewing project activities and results with a view to ascertaining their relevance to the objectives identified in Article 2(2) of the S2R Regulation and to guaranteeing the interoperability and safety of research results.

# How Does the Agency Contribute (1)?

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- Provider of Independent Railway Expertise
- Guardian of Safety and Interoperability
  - Safety
    - Railway safety must generally be maintained and, where reasonably practicable, continuously improved, taking into consideration the development of Union law and international rules and of technical and scientific progress, and giving priority to the prevention of accidents
  - Interoperability
    - The uninterrupted movement of trains to the required level of performance

## How does the Agency Contribute? (2)

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- Protecting the essential requirements for the railway system
  - Safety
  - Technical compatibility (Interoperability)
  - Health
  - Environmental protection
  - Availability and Reliability
  - Access for people of reduced mobility

## How Does the Agency Contribute (3)

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- Outcomes of S2R Work may lead to changes in the Agency's Technical Specifications for Interoperability (TSIs) or Common Safety Methods (CSMs)
- The Interoperability Directive contains an “Innovative Solution” clause. This allows the Agency to make a request to the standardisation bodies to develop standards to cover the innovative solution to complement.

- At the heart of S2R Research and Innovation, through all its Innovation Programmes and Technology Demonstrators
- Enabler of automation
- Condition for business increase and Union industry global competitiveness
- Liberate from technological barriers where actors and business models will be able to emerge and prosper for the benefit of European Travellers



# How to achieve it

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- Working together with the EUAR
- Ensure EUAR due involvement as from the set up of the R&I activities
- Make use of the common/joint user groups to assess progress achieved
- Ensure that standards' development, regulatory acts under preparation consider the R&I achievements to reduce time to market and push for market uptake

# Conclusions

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**EUAR key element of the S2R  
Governance partnering S2R, its Members  
and Programme Office, to deliver  
defragmented Railway Research and  
Innovation to achieve S2R Master Plan  
results**

