

unity, solidarity, universality

Research & Innovation in Europe: A vision by the Rail Operating Community

Transport Research Arena 2014 Paris - 16/04/2014

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The Research & Innovation Coordination Group (RICG)

> 196 members

- Coordinate Research & Innovation activities
- Identify priorities for the preparation of projects' proposals to be developed as:
 - EU funded projects (FP7, Horizon 2020, CEF...)
 - UIC projects

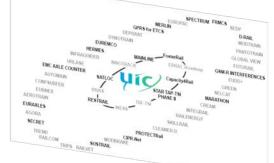
Develop the European work programme in collaboration with the UIC departments:

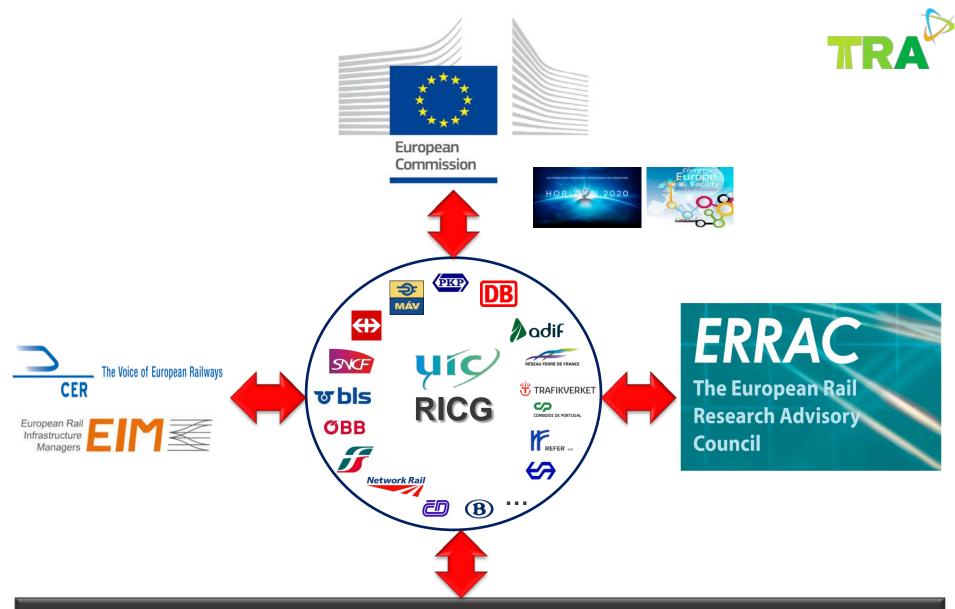
- Passenger department
- Freight department
- Rail System department
- Fundamental Values department

Promote harmonised technical requirements for rail technology (International Rail Standards)









Member States / Public Transport Authorities

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CHALLENGE 2050

A shared vision of the European rail sector

 States the sector's own expectations and objectives with an horizon of 2050

Supported by all the main associations and European rail

stakeholders

Built around a series of objectives to support the sector's

vision









A business led vision



ATTRACTIVE

Passengers and freight users receive a consistently high-quality service

SUSTAINABLE

Rail provides a resource-efficient solution for sustainable mobility and transport and a significant contribution to reductions in GHG emissions

SECURE

Railway comprehensive protection

SAFE

Rail is the safest mode of transport

PERFORMANT

Trains are on time and promised facilities for freight and passengers are available

CONNECTED

Rail is the backbone in an interconnected and seamless co-modal transport system

INTEROPERABLE

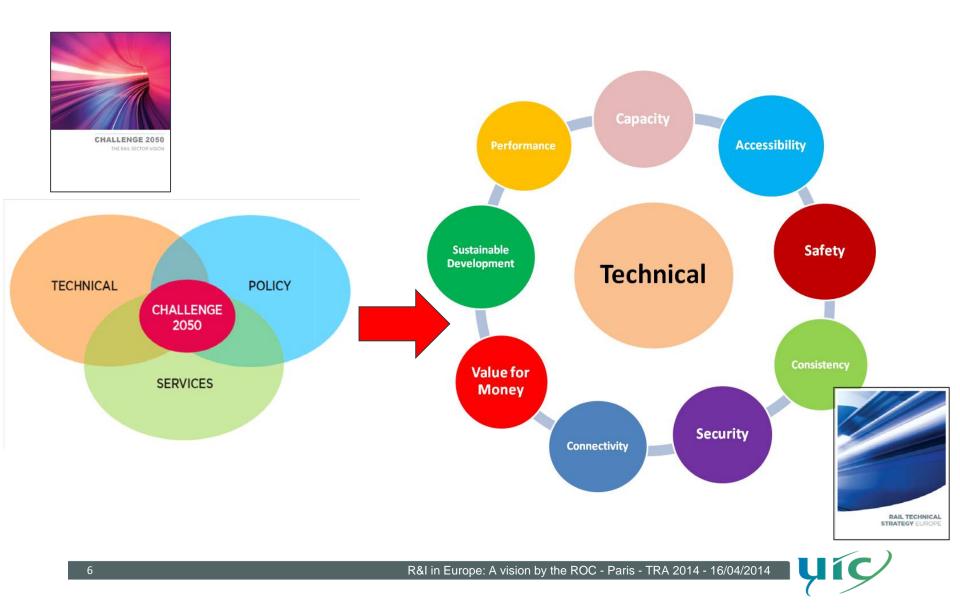
Rail Technology is adaptable to various demand volumes, market or product requirements, and

operating areas

COMPETITIVE

Rail is a competitive and viable 1st choice of transport mode in terms of cost and quality of service

From Challenge 2050 to the RTSE TRA



Rail Technical Strategy Europe

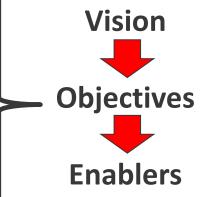
⇒ The system and its Operation



Control, Command and Communication Infrastructure Rolling Stock **Energy Supply and Consumption** Railway People Information Management Security Safety







Delivering Innovation – Principles and practices

Towards tomorrow's rail system **TRA**

Objectives:



- ⇒ Describe the core elements to developing the future rail system
- ⇒ Help the sector to prepare for the challenges related to the way the system is designed, constructed, operated and maintained
- ⇒ A solid orientation enable the ROC to exploit opportunities & move towards satisfying customer requirements
- ⇒ Inspire future innovation through the EU Framework Programme "Horizon 2020" (including the Shift²Rail initiative)

The Rail Operating Community





Railway Undertakings & Infrastructure Managers



A leading role

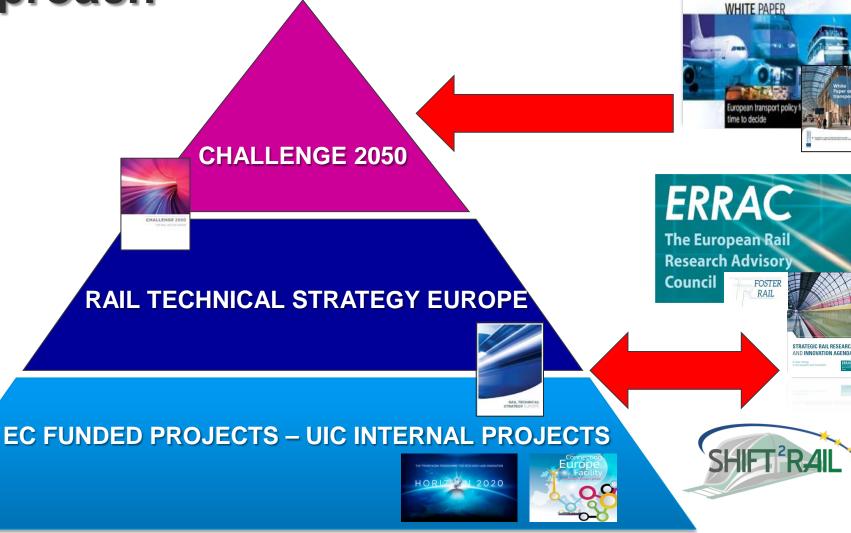


- Ensure the development of a new generation of railway products and processes suitable for the operation of the system
- Motivate the end customers to make a true shift to rail and to become customers by conviction
- Harmonise processes
- Develop new business models



Ensuring the necessary system approach





IMPROVING PRODUCTS, **SERVICES & OPERATION OF THE TRANSPORT SYSTEM IS KEY TO** ENSURE A SUSTAINABLE **MOBILITY AND INCREASE OUR** SOCIETIES' FREEDOM

R&I in Europe: A vision by the ROC - Paris - TRA 2014 - 16/04/2014

Inspiring creativity

 An interactive workspace tailored to the needs of advanced rail research
A network of multi disciplinary researchers, engineers, and resources
Find and share technical information

More information: <u>www.sparkrail.org</u>







www.uic-innovation-awards.org







Thank you for your attention

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