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Vision of the Rail Sector

Alberto Parrondo (VP Thales)
Chairman ERRAC
11th European Innovation Summit
Tuesday 04th February 2020, Brussels

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What is ERRAC?

- The European Technology Platform for rail - was set up in 2001.
- Promotes the holistic vision of the rail system with all stakeholders.
- Aims to revitalise the European rail sector.
- Identifies business needs and innovates to make it attractive and more competitive.
- Fostering and guide research efforts at European level.
- Representatives from all the major European rail research stakeholders are gathered:

Operators	Infrastructure managers
Manufacturers	The European Commission
EU Member States	Shift2Rail / ERA
Users' groups	Academics

- ERRAC covers all segments of rail transport: from conventional, high speed and freight applications to urban and regional services.

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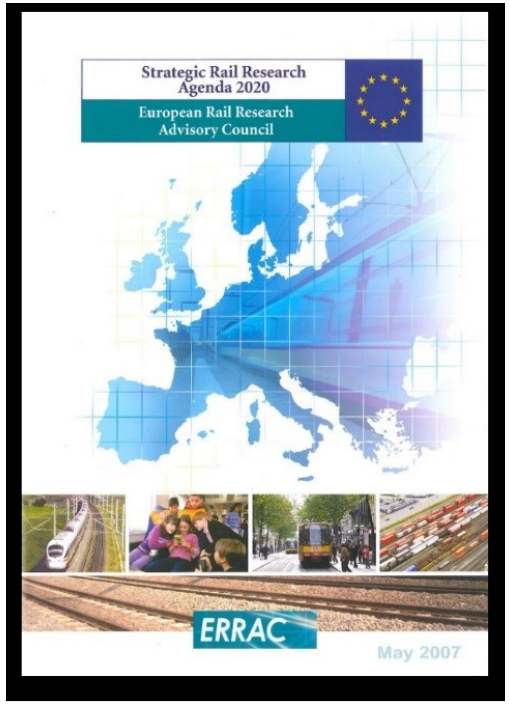
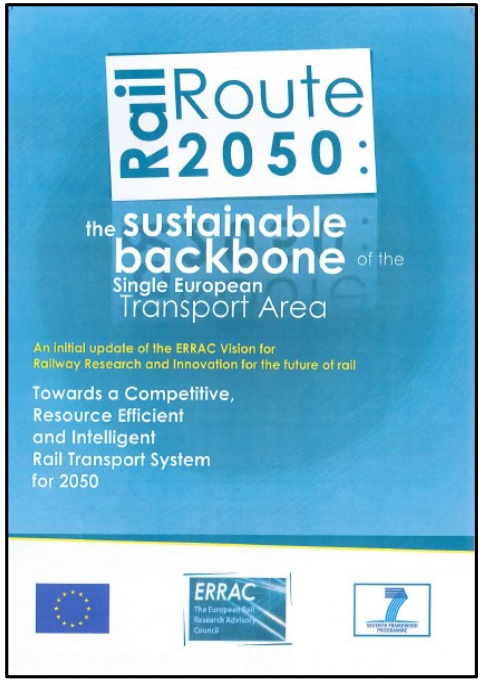
Some ERRAC earlier outputs

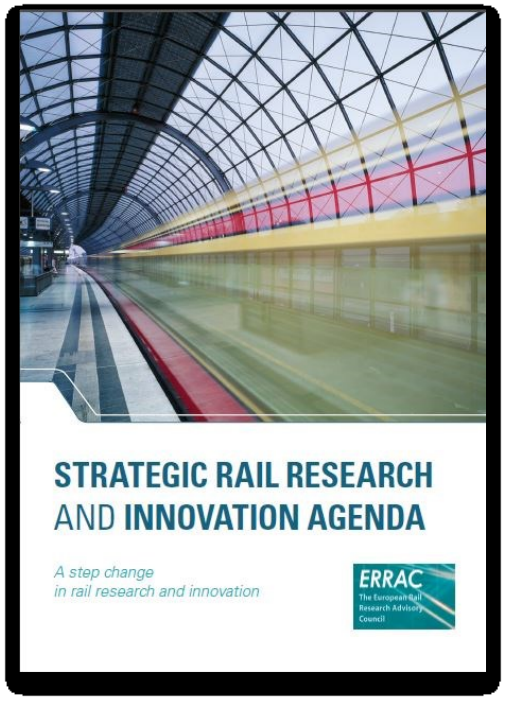
Strategic Rail Research Agenda (SRRA)
May, 2007



Rail Route 2050
2012



Strategic Rail Research and Innovation Agenda (SRRIA)
November, 2014



ERRAC Roadmaps
April, 2016

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ERRAC Rail 2050 vision in a nutshell (1/2)

ERRAC 2050 Vision in a nutshell

*"In 2050**, rail transport in Europe is the backbone of an intermodal "Mobility as a Service" in cities and outside for both passengers and goods**, meeting the needs of EU citizens and society. The suppliers and service organisations of the European rail industry are seen as the world's thought leaders for railway products and services."*

https://errac.org/wp-content/uploads/2019/03/122017_ERRAC-RAIL-2050.pdf

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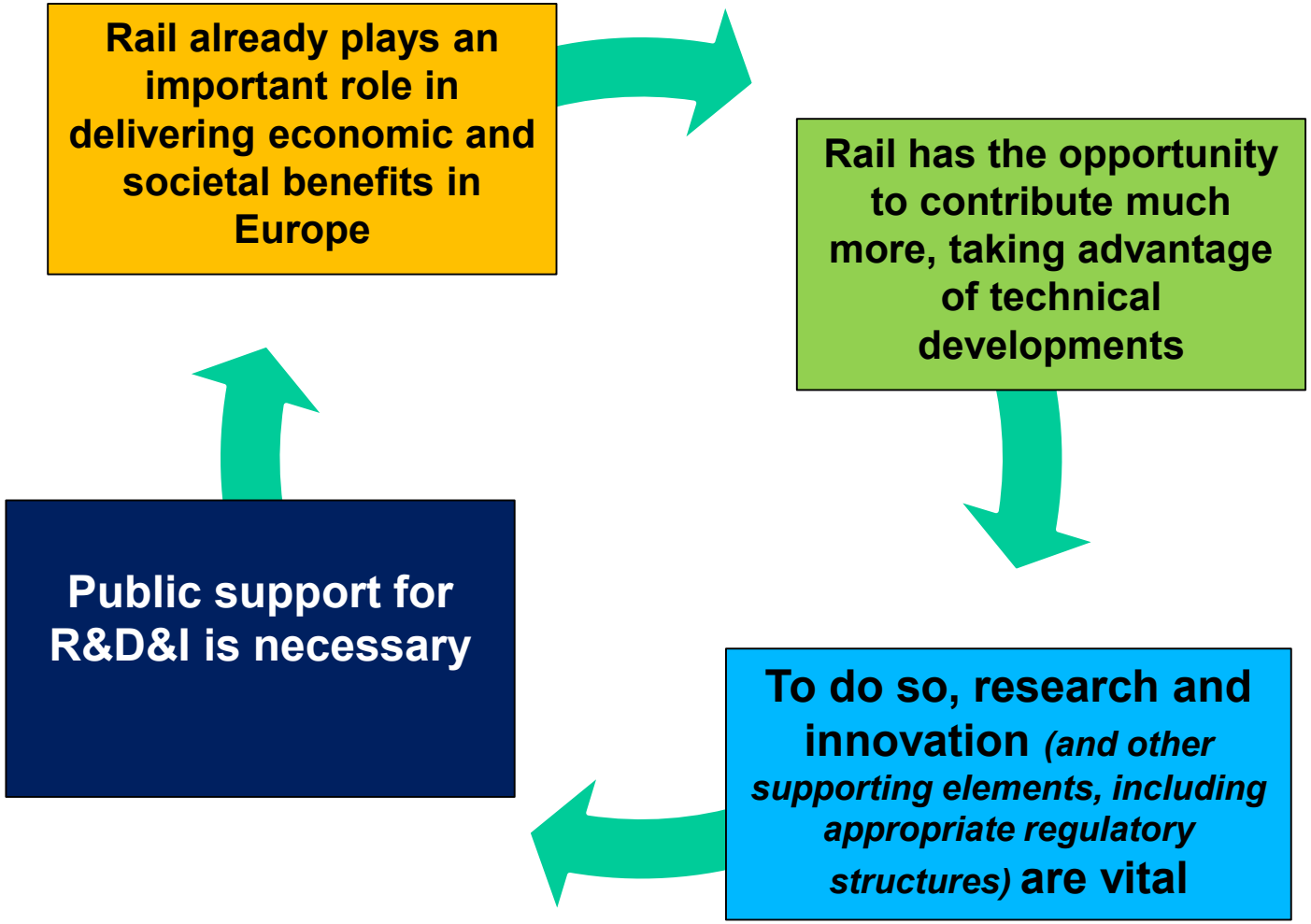
ERRAC Rail 2050 vision in a nutshell (2/2)



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RAIL 2030 R&I Priorities(1/7)

- ✓ Reaching the ERRAC 2050 Vision requires consideration of the stages between today and then, particularly which aspects of the vision should be delivered by each stage, as a guide to **formulating the priorities for research and innovation**. The first such stage is **the period to 2030**, the focus of this document.
- ✓ The 2030 rail system **will interact with other transport modes** and with local, regional, national and European economic activities in transformational societal changes and trends.
- ✓ The objective of the sector is to offer **end-users/citizens easy and seamless access to a portfolio of sustainable mobility options which have rail as their backbone**.
- ✓ This document describes the priorities, which form the base for rail research and innovation, to build up the 2030 railway system.

https://errac.org/wp-content/uploads/2019/09/errac_rail_2030_research_and_innovation_priorities.pdf

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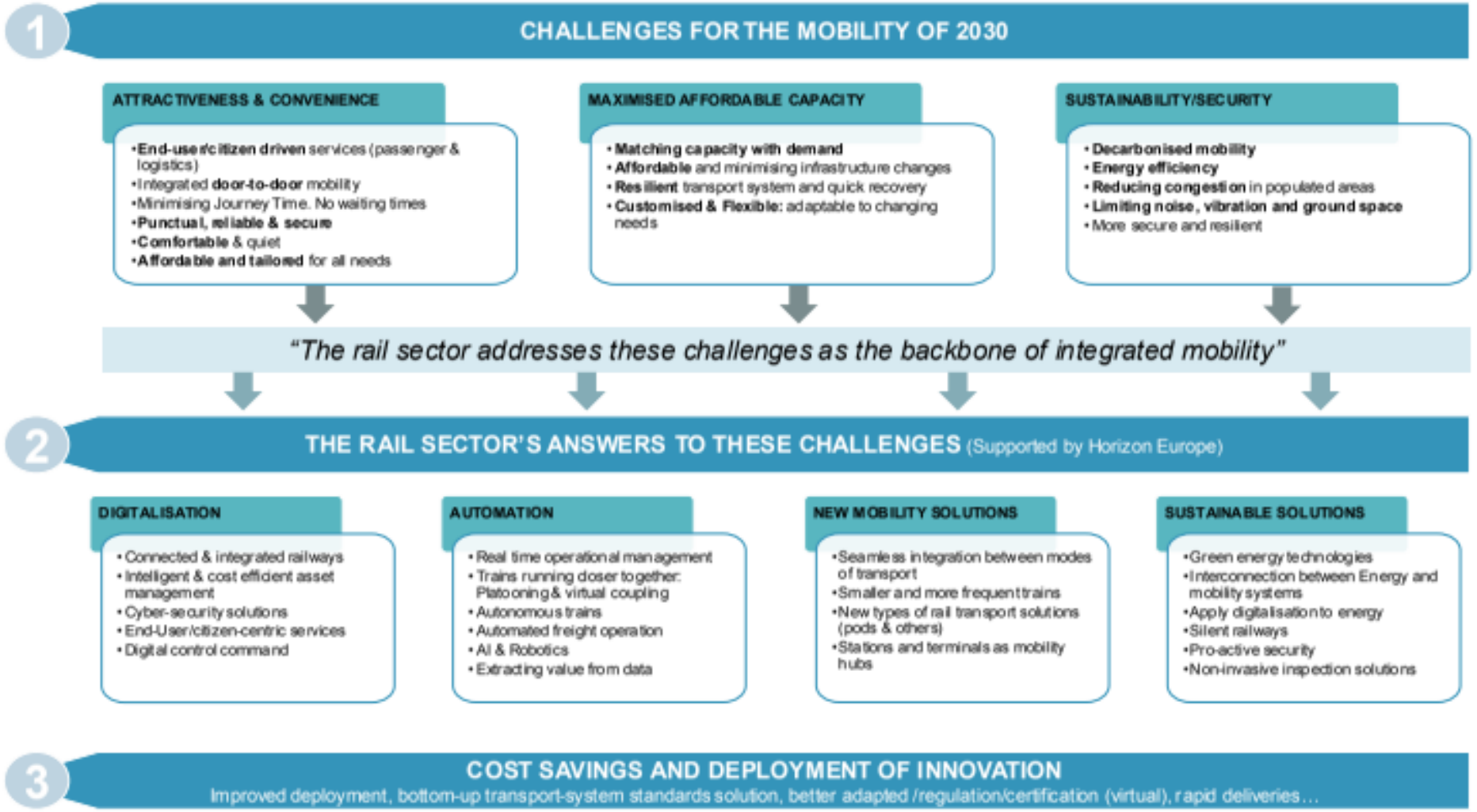
RAIL 2030 R&I Priorities(2/7)



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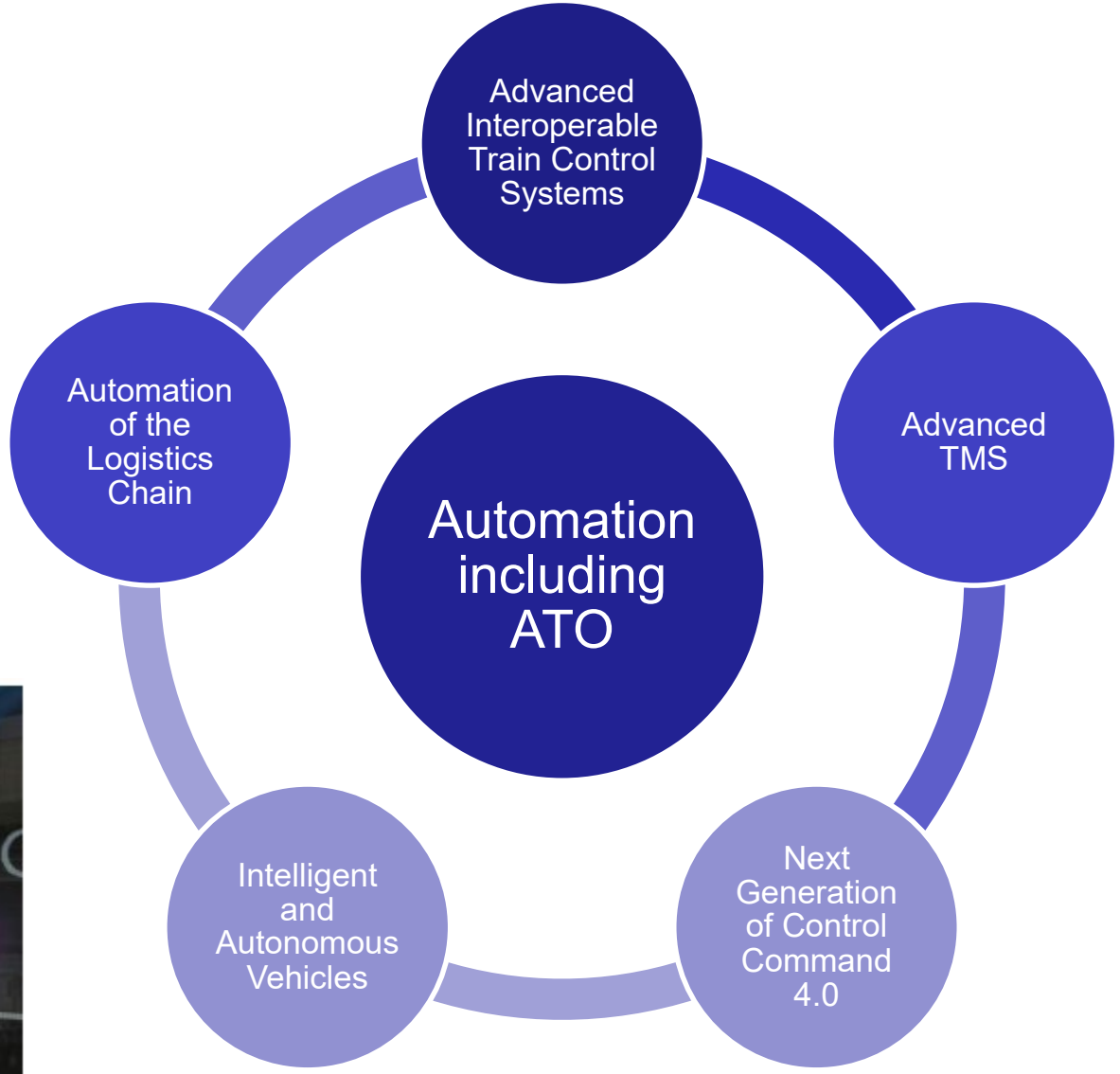
RAIL 2030 R&I Priorities(3/7)



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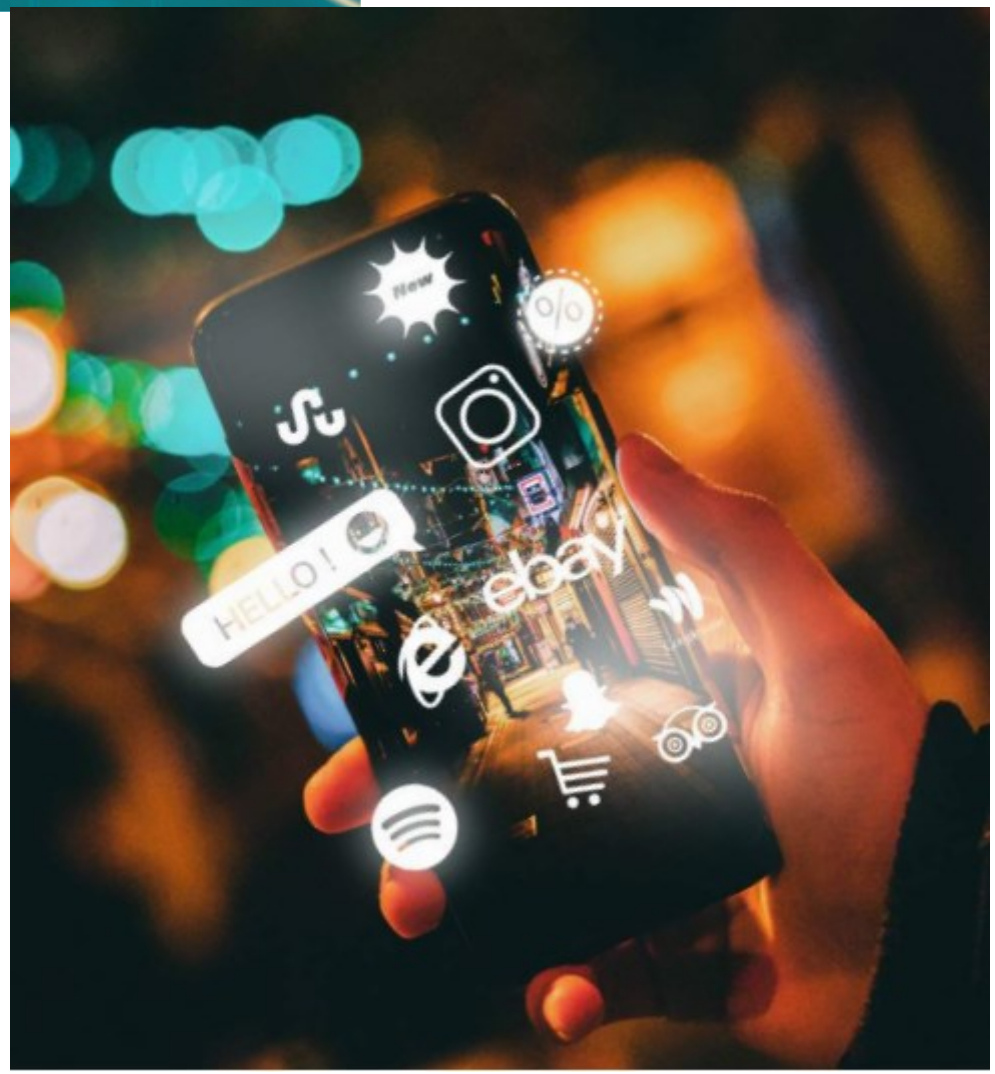
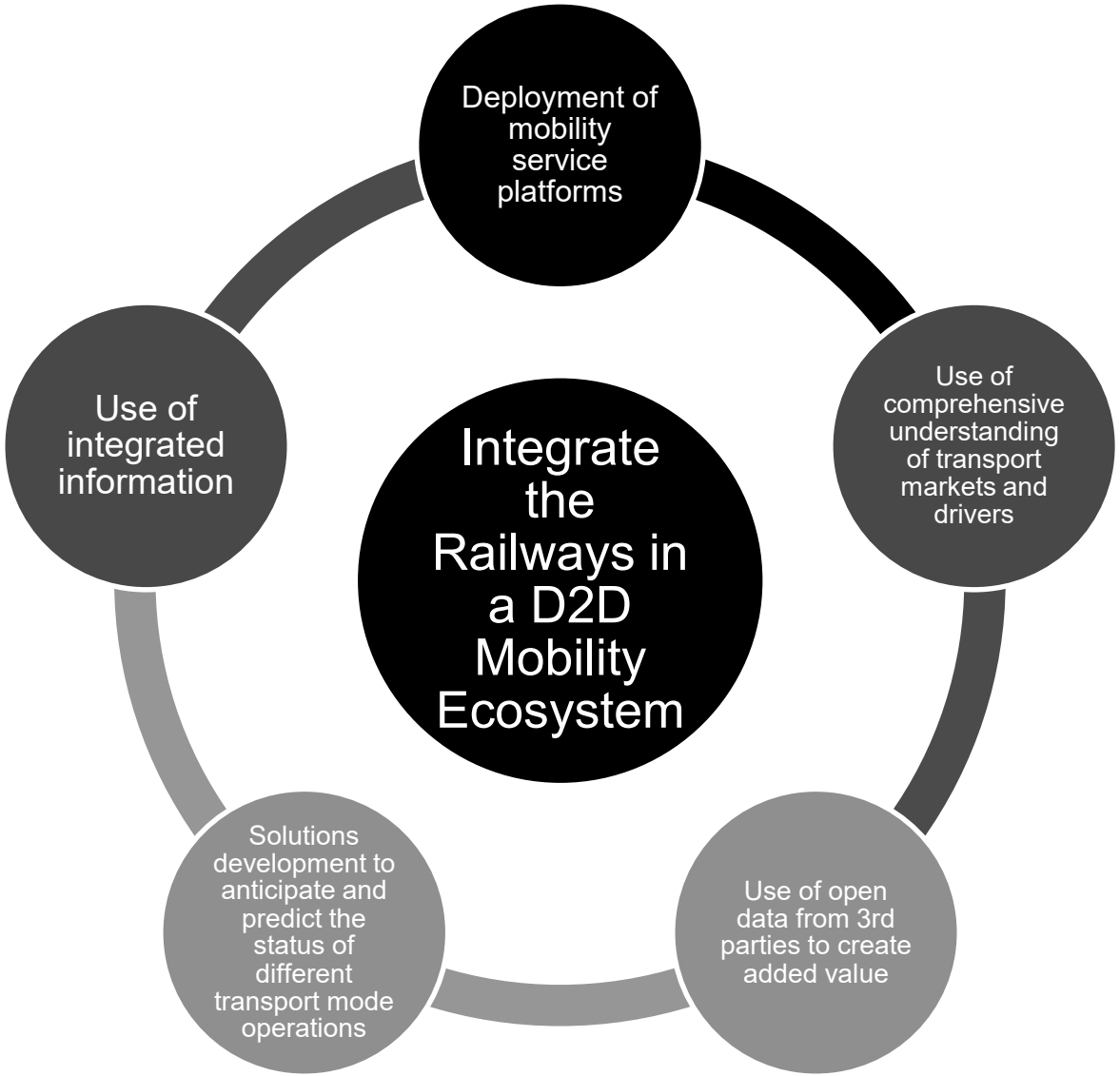
RAIL 2030 R&I Priorities(4/7)





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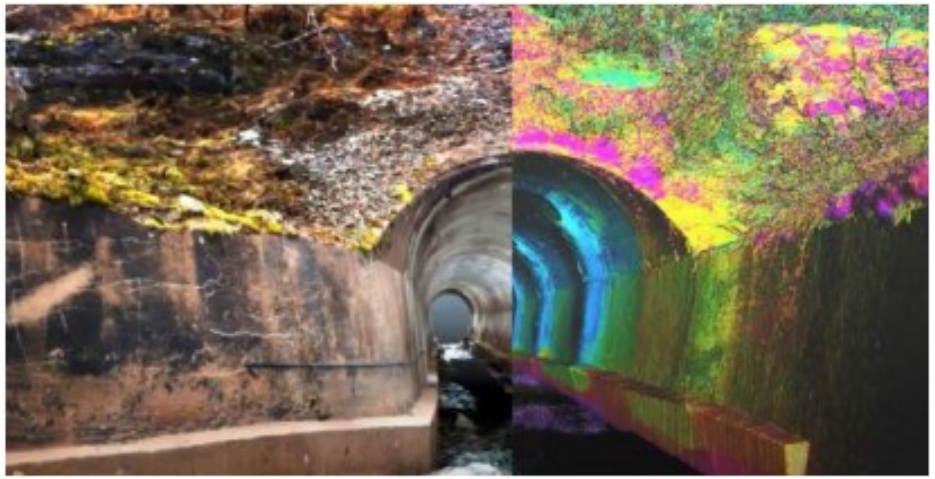
RAIL 2030 R&I Priorities(5/7)



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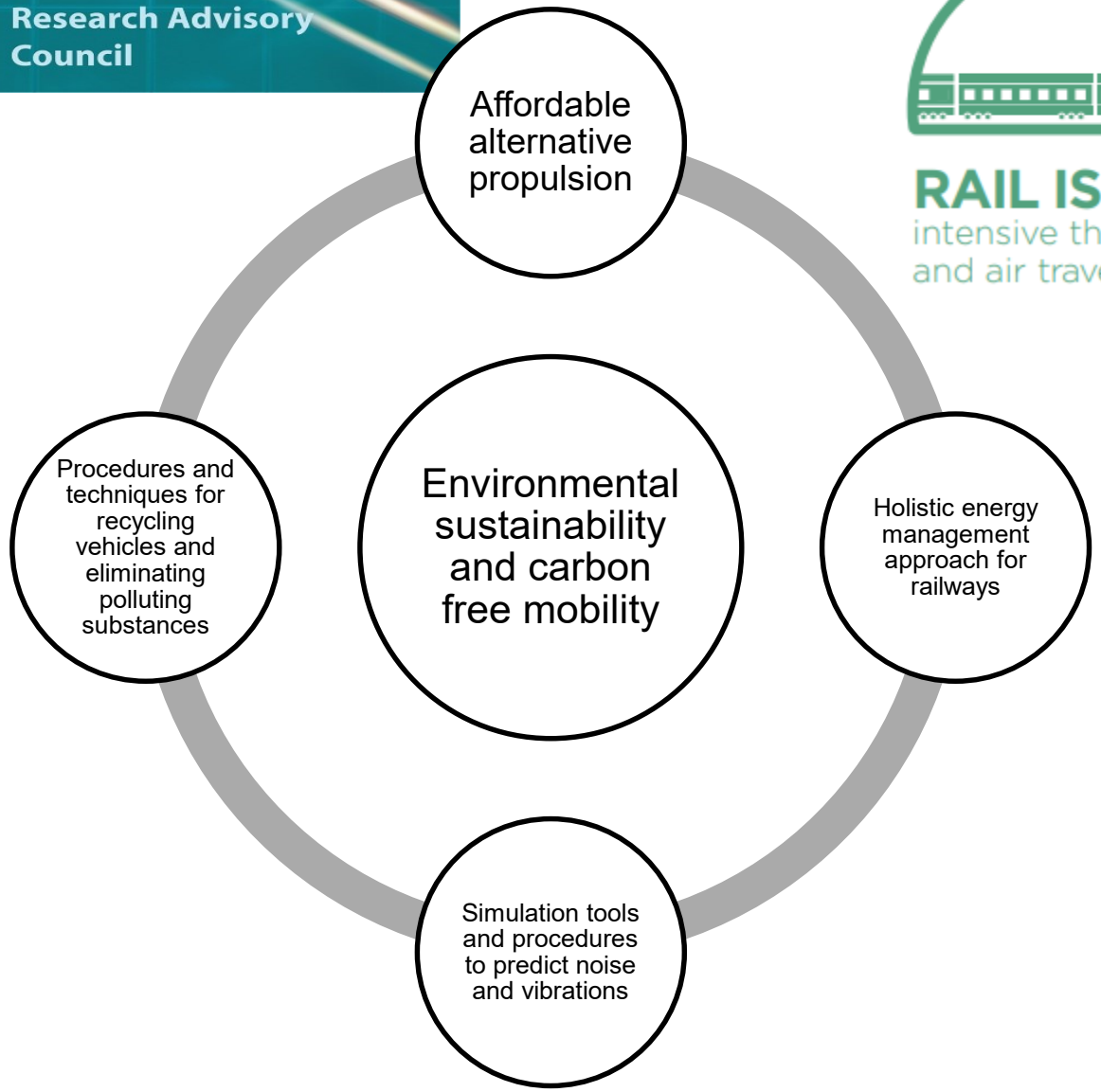
RAIL 2030 R&I Priorities(6/7)



RAIL IS 9X LESS CO_2 intensive than road for freight and air travel for passengers.

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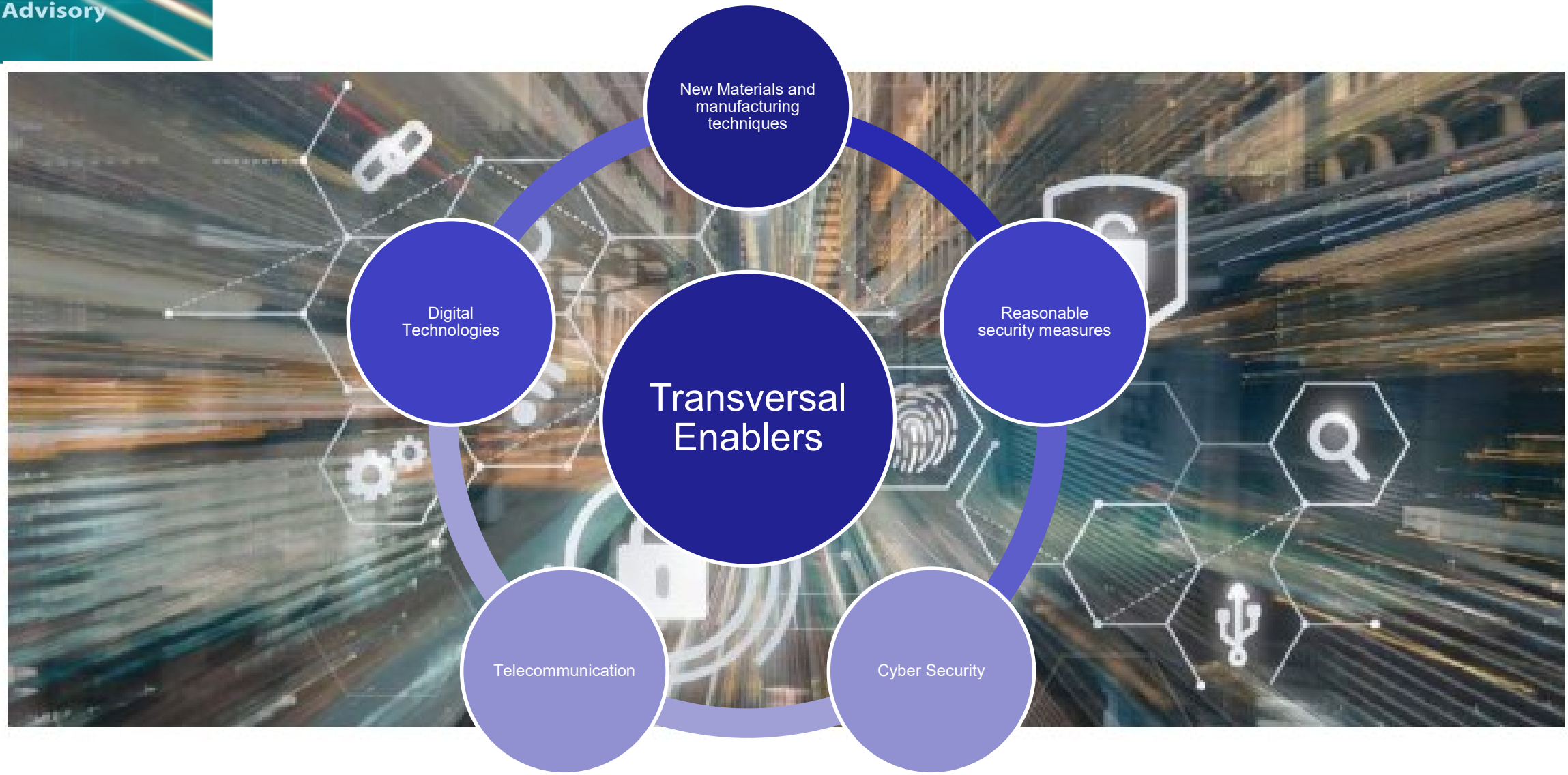
RAIL 2030 R&I Priorities(7/7)



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Horizon Europe

- **We have a momentum – now is the time to act!**
- **Need to get the extension of Shift2Rail in Horizon Europe following the iPPP Model!**

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Thank you for your attention!