



**Digitalisation driving customer benefits as the heart of
intermodality and the challenges of innovation**
UNIFE Vision

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Moving Towards a Sustainable Mobility
Building a Smart Environment and User-Friendly Integrated Mobility System
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- **UNIFE is the European Association of train-builders and rail equipment suppliers**
- **A unique network of over 100 member companies from all over Europe and of all sizes (1/3 of SMEs) and 14 National Associations**

World leaders:

UNIFE members have a 84% market share in Europe and supply 46% of the worldwide rail production





Technical Harmonisation & Interoperability

- **Key role of Regulation**

- ❖ Implementation of the SERA

- ❖ Key role of the Technical Pillar of the 4th Railway Package



- **Key role of European Standardisation**

- ❖ Improved and harmonized quality

- ❖ Reduced costs

- ❖ Global products with wider market acceptance

- ❖ Reduce risk of misuse

- ❖ Promote common technical referential



Research & Innovation



- **Shift2Rail 2 – UNIFE 9 Key enablers:**

- 1) Automated rail transport;

- 2) Mobility as a seamless service;

- 3) Digitalisation;

- 4) Towards an efficient Zero Emission Railway;

- 5) Maintenance of the future;

- 6) Enhancing the security and the protection of the rail system;

- 7) Optimized infrastructure;

- 8) Digitization of the supply chain (Industry 4.0);

- 9) New certification framework.

Digitalisation

- UNIFE priorities:

- ❖ ERTMS and Automation



- ❖ Improving end-user's experience

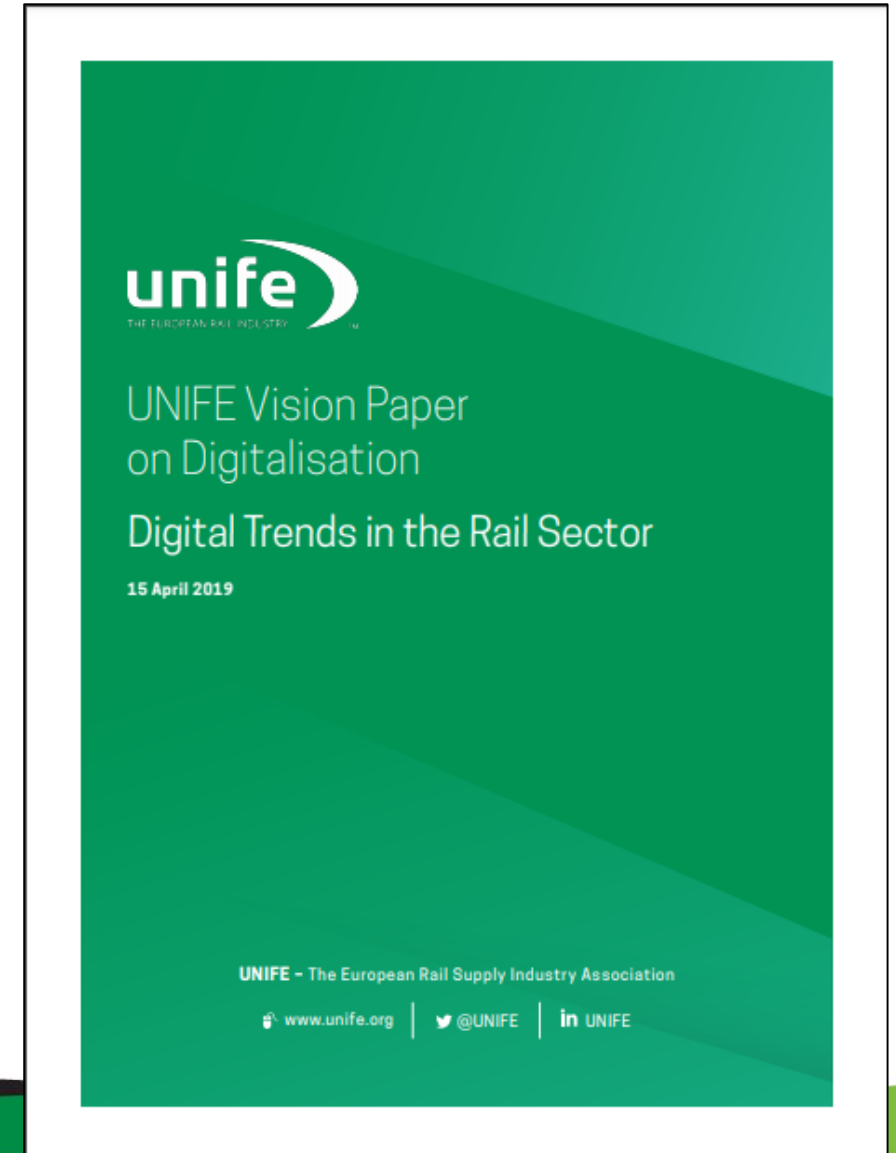
- ❖ Increasing capacity and reliability of the railways

- ❖ Enhancing the security of the rail system (e.g. Cyber Security)

- ❖ Better accessing and using data

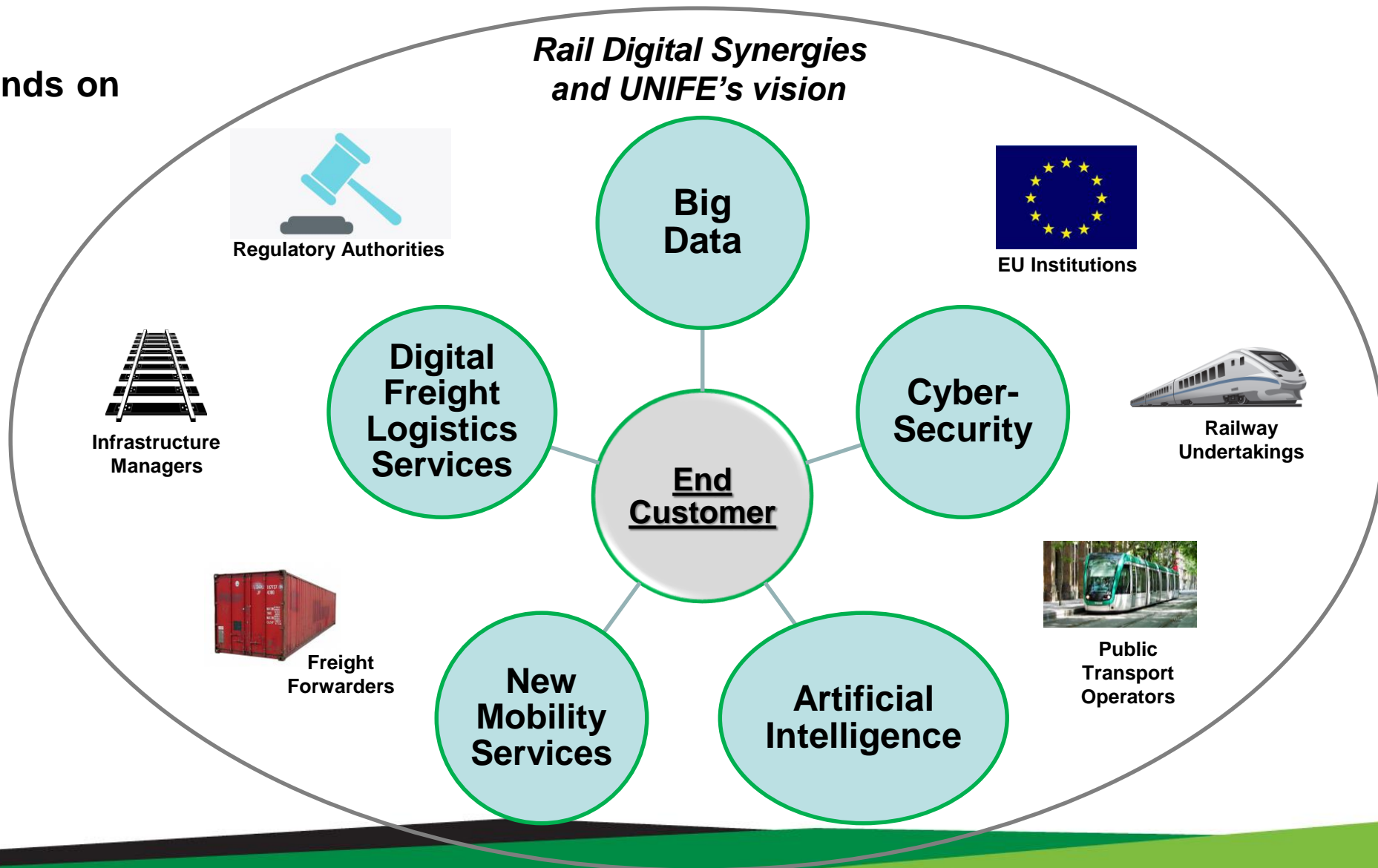
UNIFE Vision Paper on
Digitalisation
"Digital Trends in the Rail Sector"
April 2019

- The Digitalisation Platform of UNIFE is open to all UNIFE's Members who are willing to feed the current & future debates on digitalisation of the rail transport.
- On 15th April 2019, UNIFE has published its "vision" on digitalisation "***Digital Trends in the Rail Sector***"
 - **Five majors focus areas** have been identified as priorities for the rail supply industry.
 - 1) Big Data;
 - 2) Cybersecurity;
 - 3) Artificial Intelligence;
 - 4) New Mobility Services;
 - 5) Digitalisation of Freight Logistics.
 - Bringing the European rail supply industry's views and objectives into the centre of the digital debate.
 - Engaging in a fruitful dialogue with decision-makers and other key stakeholders – in the transport sector and beyond.



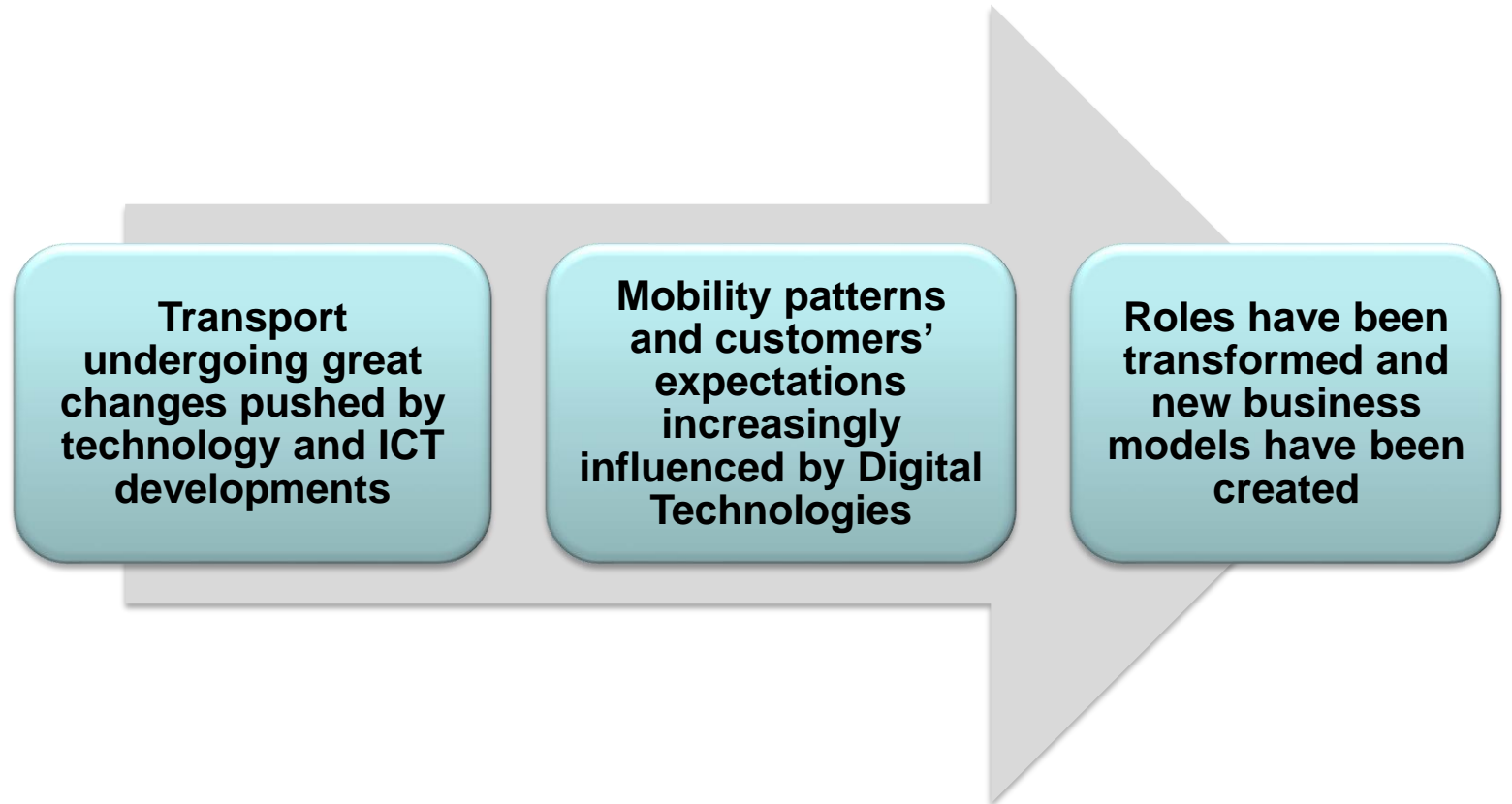
UNIFE's digital vision stands on three main principles:

- Sectorial synergies and cooperation between all rail's stakeholders.
- Effective collaboration & dialogue with the EU Institutions and Regulatory Bodies.
- Priority given to the interest of the final customer.

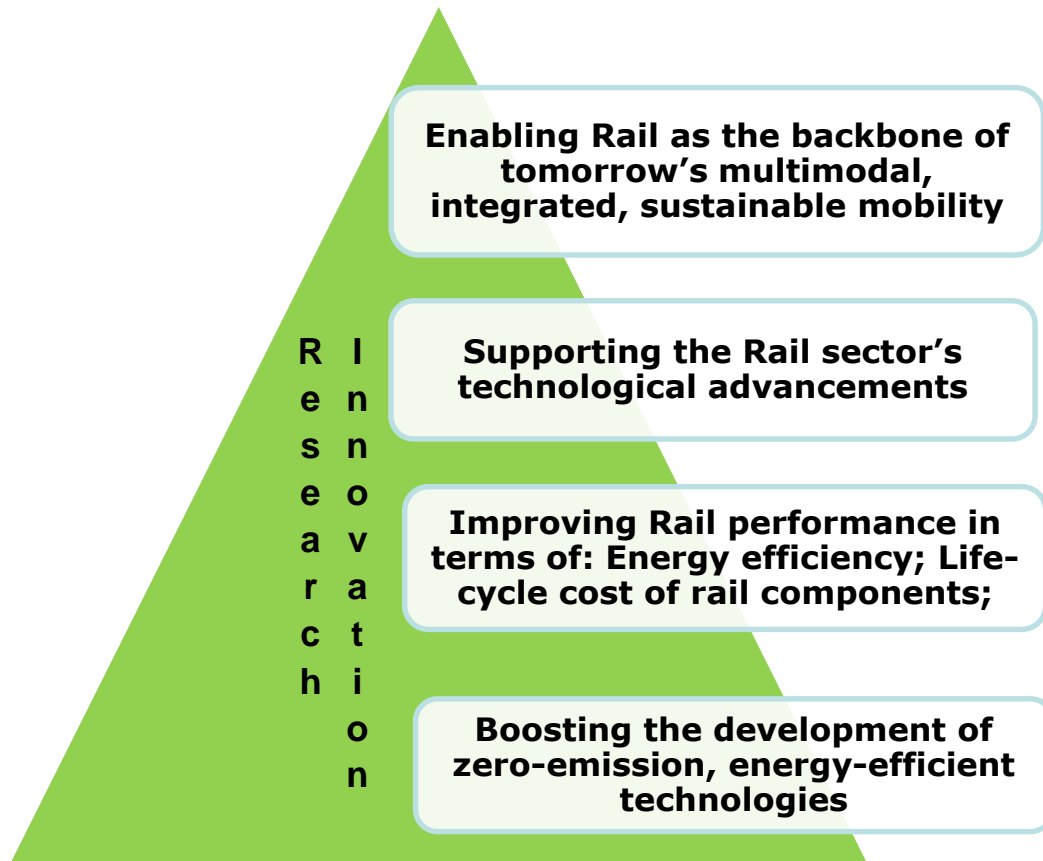


➤ **For the rail sector, the digital transformation is an opportunity:**

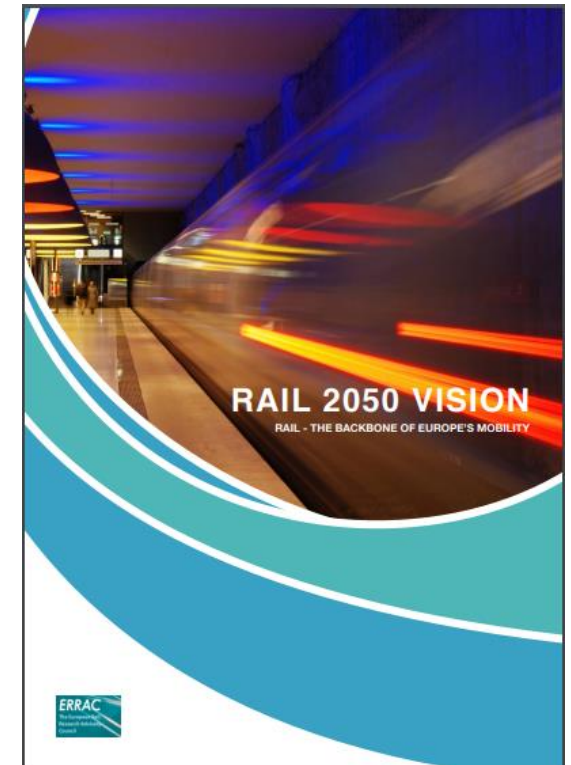
- Other modes of transport are pushing on their technological progress.
- Digitalisation, not merely as an objective, but rather as a mean to achieve more ambitious and paramount goals.
- The ultimate benefit of the 'final transport user', namely the individual passenger or the freight customer, must remain at the heart of digital transformation within the rail sector.
- A European platform on digitalisation of rail encompassing all rail relevant stakeholders should be created.



- **Research and Innovation (R&I) plays a fundamental role in fostering the Rail sector’s digitalisation and sustainability efforts.**



- **The Rail sector R&I common vision is delivered through the European Rail Research Advisory Council (ERRAC)**
- **ERRAC’s ‘Rail Vision 2050’ sets out the long-term roadmap for railways to embrace the new technologies and master the raising digital mega-trends.**





Shift2Rail Joint Undertaking is the first European rail's collaborative-research initiative, established under Horizon 2020, with a budget of € 940 million for the period 2014-2020.

Continuity, stability and long-term vision of the whole rail sector's innovation efforts

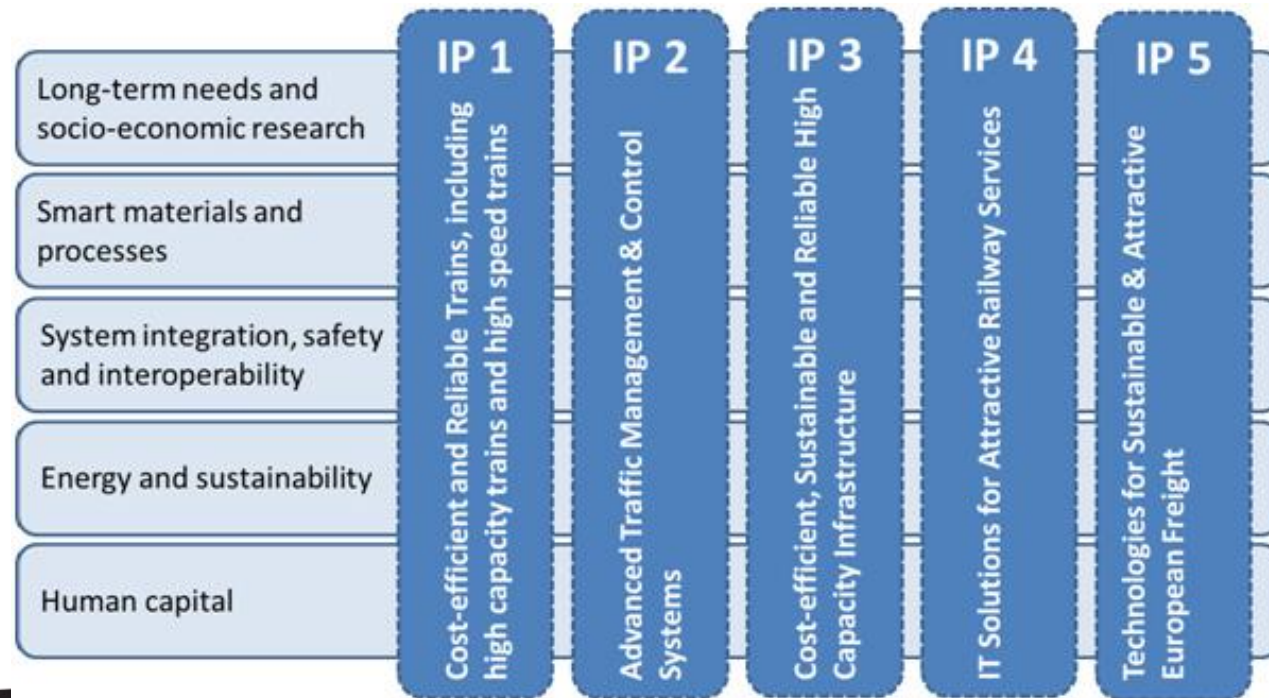


Collaborative research and platform for cooperation across the whole innovation ecosystem



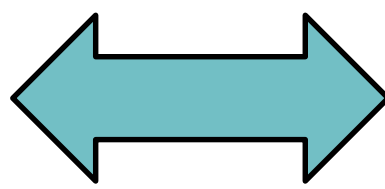
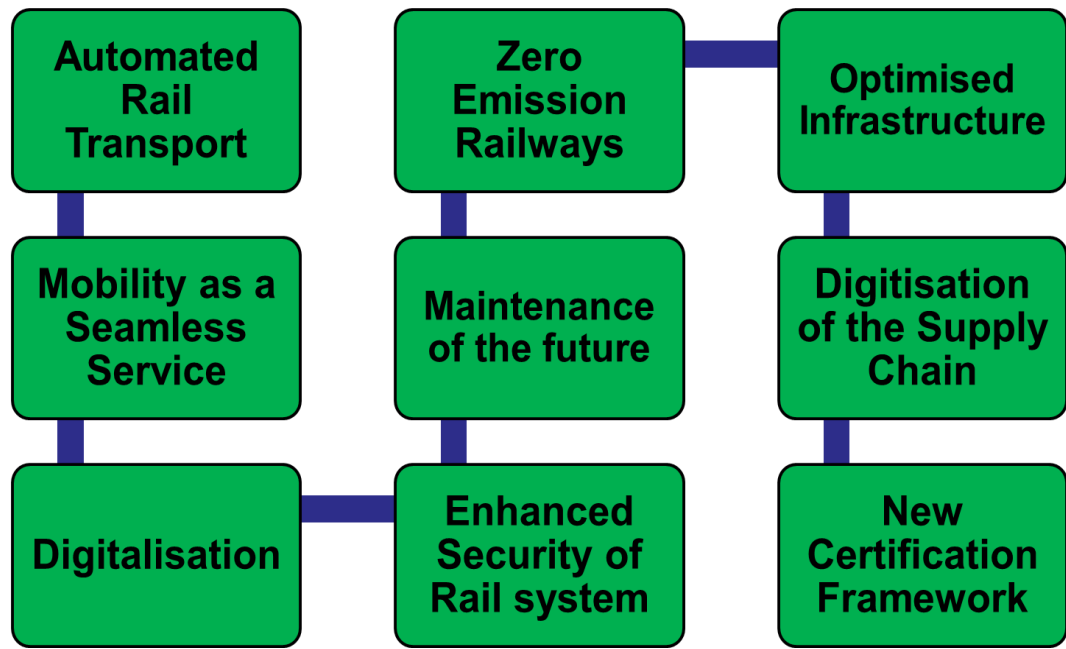
Technology demonstrators for competitive, intelligent rail freight operations

Five asset-specific Innovation Programmes (IPs), covering all the different structural (technical) and functional (process) subsystems of the rail system.



- **UNIFE strongly calls for the continuation of the Shift2Rail Joint Undertaking within the next Research and Innovation framework programme Horizon Europe 2021 – 2027.**
- **UNIFE’s nine key-enablers shall be at the core of Shift2Rail 2 programme.**

The European rail supply industry’s vision for Shift2Rail 2



Shift2Rail 2 to enable rail transport to tackle and be part of the solution vis-à-vis the ongoing mega-trends



Shift2Rail 2 to embrace the increasing need for shared mobility, customer-focused, digital and intermodal transport solutions



Shift2Rail 2 to reinforce the attractiveness of rail transport toward passengers and business

Want to know more about UNIFE?

- Read our « *About UNIFE* » guide
 - Consult our website: www.unife.org
 - Follow us on twitter: @UNIFE
-
- Download our Vision Paper on digitalisation:
<http://unife.org/publication-press/publications.html>

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