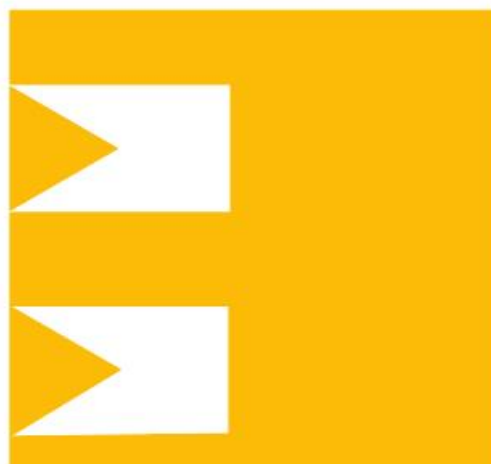


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The Horizon Europe network of National Contact Points for **Climate**, **Energy** and **Mobility**

Europe's Rail Joint Undertaking



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The GREENET project has received funding from the European Union's Horizon Europe programme under grant agreement No 101069604



Europe's Rail Joint Undertaking (EU-Rail) (successor of Shift2Rail Joint Undertaking), is the European partnership on rail research and innovation. Established under the Horizon Europe programme, worth EUR 1.2 billion. EU-Rail along with its 26 Founding Members deliver results that contribute to the EU Sustainable and Smart Mobility Strategy as well as the Single European Railway Area, to transition to a more attractive, user-friendly, competitive, affordable, efficient and sustainable European rail system.

Objectives

The partnership aims to accelerate research and development in innovative technologies and operational solutions, fostering cooperation and ensuring coordination with related European, national and international research, innovation, deployment and investment activities in the rail sector and beyond.

The objectives of Europe's Rail Joint Undertaking is to deliver, via an integrated system approach, a high capacity, flexible, multi-modal, sustainable, and reliable integrated European railway network by eliminating barriers to interoperability and providing solutions for full integration, for European citizens and cargo.

These innovations will contribute to the achievement of the European Union's policies and objectives, and will result in:



- Meeting evolving customer requirements
- Improved performance and capacity
- Reduced cost
- More sustainable and resilient transport
- Harmonised approach to evolution and greater adaptability
- Reinforced role for rail in European transport and mobility
- Improved EU rail supply industry competitiveness

Funding opportunities

To achieve these objectives, **five areas of priority** have been determined in the EU-Rail Master Plan outlining the key topics to be funded under the R&I programme:

1. European rail traffic management and supporting rail's key role in a multimodal transport system
2. Digital and Automated Train Operations
3. Sustainable and digital assets
4. Competitive digital green rail freight
5. Smart solutions for low density traffic lines (cost-efficient regional lines)



Type of topics: Research and Innovation Actions (RIA), Innovation Actions (IA), Coordination and Support Actions (CSA).

Become a member, get a say & stay tuned!

Stay tuned for our Call for Associated Member and keep an eye out for more details in our [Work Programmes](#), and in our [latest call presentation](#)!



Target Groups

The Partnership involves the broad spectrum of stakeholders.

- **Railway system and rail supply industry**, system integrators, manufacturers and/or technology providers
- **Rail operators and network operators, infrastructure managers**, traffic management, supporting a multimodal mobility system. Improving management capabilities, such as real-time connections and interaction between relevant resources and actors or incorporating new functional improvements such as automatic train operation (ATO)
- **Digital and automated train operators**, delivering an adaptable and scalable trackside and on-board extended Command, Control and Signaling system architecture (CCS+), based on radio-based ERTMS, and scalable automation in train operations, for example up to Grade of Automation 4 (GoA4), meaning that the rail system is ready for fully unattended train operations
- **Freight customers**, streamlining freight operations through digitalisation to ensure smooth integration of rail freight in the logistics value chain
- **Equipment suppliers and manufacturers**, optimising railway operations to reduce both construction and maintenance costs
- **Programming companies** creating digital and operational solutions to maximise the benefit of digital twins for selected assets, cybersecurity, environment perception, connectivity
- **Authorities** (international, European, national, regional, local), developing policies, legislation and strategies and monitoring its implementation
- **Academia and Research Institutes**, performing exploratory research pushing the boundaries of the current system and paradigms
- **Engineering offices**, for the design of new solutions and retrofitting
- **SME's and start ups** can be from all sectors focusing on the partnership objectives

Coordinator of the partnership

Main contact is Mrs Catherine Cieczko, Chief Stakeholder Relations and Dissemination

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Previously funded projects

Current [EU-Rail JU projects](#) build on the legacy of the [Shift2Rail projects](#)

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