

→ SPACE4RAIL: SPACE ENABLED SERVICES FOR THE RAILWAY INDUSTRY

Funding Feasibility Studies and Demonstration Projects in Direct Negotiation



→ SPACE ENABLED SERVICES FOR THE RAILWAY INDUSTRY

CO₂ emissions, climate change, and the security of energy supply are major challenges being faced globally. With an increase in demand for transport, sustainable, cost-effective and high performing transportation are highly sought-after. Railway can play a pivotal role in addressing such demand. Digitalisation of railways is instrumental. Due to the hugely expensive infrastructure in railway, it is necessary to get the most performance and capacity out of what is already available without incurring further large investments. The use of space assets can support innovation in rail, introducing the adoption of new technologies that embed interoperability and continuity of service by default.

The ESA Open Call *Space4Rail Downstream Applications in ARTES 4.0* aims to support the exploitation of space-based assets (satellite navigation, satellite communications and/or Earth observation) in innovative and sustainable applications or services. The Open Call is structured in key thematic domains. Companies are invited to propose activities (Feasibility Studies or Demonstration Projects) to one of them.

→ KEY THEMATIC AREAS OF INTEREST

- **FUTURE CONTROL-COMMAND AND SIGNALLING IN THE EUROPEAN RAIL SYSTEM**
Railway applications/services improving the business case of the European Rail Traffic Management System (ERTMS).
- **IMPROVING THE PERFORMANCE OF THE RAILWAY**
Innovative railway applications/services that improve the performance, efficiency, safety and security of the railway infrastructure and assets.
- **IMPROVING THE ATTRACTIVENESS OF THE RAILWAY**
Innovative and sustainable applications/services improving attractiveness of railway for end users.

→ WHAT WE OFFER



Zero-Equity Funding
up to 50% per Activity – 80% for
SMEs*



Access to our
Network & Partners



Technical & Commercial
Guidance



Brand Credibility

→ WHAT WE LOOK FOR

- ✓ Motivated teams with business and domain expertise
- ✓ Attractive market opportunities and customer engagement
- ✓ Commercially viable service concepts
- ✓ Technically feasible solutions enabled by Space

Apply Now!

For further information, go to <https://space4rail.esa.int/opportunities/ba-s4r> or email space4rail@esa.int.

*Pending National Delegation authorisation

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