



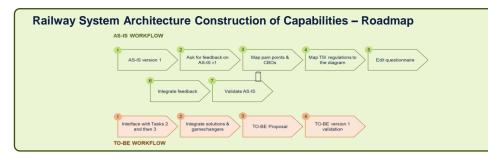
The Railway system is expected to deliver operational capabilities using many resources and entities. These resources interact throughout the whole life cycle, from design to operation and maintenance. Integration of new technology and new concepts or innovation is usually a complicated effort.

In the System Pillar Task 1 the Business Process Architecture and Operational Design (Organizational needs, Generic automation needs, ...) for the Railway System will be specified, based on, and reflecting the Common Business Objectives and the expected future performances, up to System Level 2 Railway System Architecture. This architecture needs to be robust overtime to protect investment and enable innovation acceleration.

Operationa	al Activities of the Railway System
	#Regulatory Authorities     *Certification bodies
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	+Infrastructure Manager (M) +Railway Undertailing (RU)
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	Teach Area III Teach Area III Teach
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	«Suppliers #ECM #Vehicle Keeper #commercial Service (BIN) #Electricity undertailings

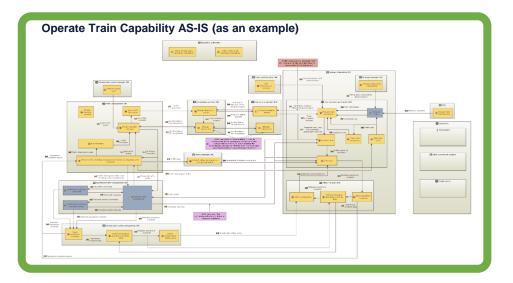
The Task 1 Team will focus on developing the following new functions and technical enablers for the **"Harmonized European Rail Operation" migration plateau**:

• All other interfaces of the System Pillar Target Architecture, which are perhaps agreed and published at this time, can be used for optional implementations



The Task 1 Team current work is dedicated to the analysis of the 5 main **Capabilities** of the **Railway System :** 

- Manage Energy
- Maintain and monitor infrastructure
- · Upgrade or renew infrastructure network capabilities
- Operate Train
- · Maintain and Monitor rolling stock





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Lead STIP Deliverables	Deliverables Request for Service (SC2.4)	
<ul> <li>Not STIP Deliverables defined in STIP v1.</li> </ul>	D01 TO-BE architecture of one new capability (maintain & monitor Infrastructure) D02 Analysis of pain points and outputs from other SP Tasks – Q3 2025	
Latest Achievements, Challenges and Design Decisions (to be filled periodically by the domain)	Expected outcomes for sector review in the next 3 months	
<ul> <li>Latest Achievements: The following achievements have been accomplished by the Railway architecture domain</li> </ul>	Closeout Phase 2.3	
<ul> <li>Achievement #1: Conclusion of To-Be architecture of «Manage Energy» and «Operate Train» capabilities. The deliverables are approved within the SP Task1 Members and Core Group.</li> </ul>	<ul> <li>The new Mirror Group will be set-up for the feedback of S.C 2.3 deliverables;</li> <li>Operate Train To-Be Architecture</li> </ul>	
<ul> <li>Achievement #2: The Interfaces and communications with other SP tasks and IP FPs already started (Operate Train and Manage Energy Capabilities)</li> </ul>	<ul> <li>Manage Energy To-Be Architecture</li> <li>Infrastructure AS-IS Architecture</li> <li>Maintain &amp; Monitor Rolling Stock AS-IS Architecture</li> </ul>	
• Domain Current challenges: The domain is facing the following challenges:		
Challenge #1: Common View of All European Stakeholders on the described capabilities		
Challenge #2: Interfaces with other tasks.		
<ul> <li>Design Decisions: The domain has made the following design decisions that impact the Overall Model:</li> </ul>		