



## **Rail Baltica Global Project Corridor**

### **Synergies Study**

Final Report  
Executive Summary

### **ANNEX 3: BACKGROUND INFORMATION**

11/04/2022



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## 1 BACKGROUND INFORMATION

The project has followed the delivery of the different work packages required in the terms of reference, following a bottom-up approach:

Project Phase		Work Packages and Content
1	<b>INCEPTION REPORT</b>	A. Overview of Synergies and Potential Impacts (WP1.1) B. Preliminary Review of International Experiences and Relevant Activities: Overview and Critical Discussion of Relevant Case Studies (WP1.2)

### Meetings

One-to-one thematic meeting were held during the development of the work packages in order to present the analysis developed by the consultant team and to validate the feasibility of the proposed synergies with the RB AS experts.

The following meetings were held during the development of the project:

- 2021\_10\_28: KOM
- 2021\_11\_08 Industrial
- 2021\_11\_12 Digital
- 2021\_11\_15 Energy, CCS
- 2021\_11\_23 Regional Impact and GVA stations
- 2021\_11\_25 Industry Day
- 2021\_12\_02 Inception Report review
- 2022\_02\_01 Commission Lead meetings
- 2021\_12\_17 Commission Lead meetings
- 2022\_02\_10 Commission Lead meetings
- 2022\_03\_04 Commission Lead meetings
- 2022\_03\_15 Commission Lead meetings
- 2022\_03\_18 4. Corridor Synergies (presentation on pre-final deliverable) CORG MARCH 18 Meeting

### Literary review/ Referenced documents

The following documents were facilitated, in order to assess whether proposed synergy proposals could be captured without significant change in terms of project timeline and or costs:

Literary review
<ul style="list-style-type: none"> <li>• Cost-Benefit Analysis, 2017</li> <li>• Infrastructure Management Study, 2019</li> <li>• Rail Baltica Operational Plan, 2018</li> <li>• Piggyback Transportation Services, 2020</li> <li>• RB-Airport-integration-feasibility-study</li> <li>• RG180416C_RB_Tallinn-Tram_Final-report_English</li> <li>• Parnu Rail freight terminal 20190307_Final-Report</li> <li>• Riga-Node-Study-Final-report</li> <li>• Rail Baltica Design Guidelines:                             <ul style="list-style-type: none"> <li>• RBDG-MAN-011-0103_ChangeManagementProcedure</li> <li>• RBDG-MAN-012-0106_GeneralRequirements_Redacted</li> <li>• RBDG-MAN-013-0105_RailwayAlignment</li> </ul> </li> </ul>

- RBDG-MAN-014-0105\_RailwaySuperstructure-Track
- RBDG-MAN-014A-0101\_TS\_Rails
- RBDG-MAN-014B-0100\_TS\_SleepersUSPsFastenings
- RBDG-MAN-014D-0101\_TS\_TurnoutsREJ
- RBDG-MAN-015-0105\_RailwaySubstructurePart1-EmbankmentsAndEarthworks
- RBDG-MAN-016-0105\_RailwaySubstructurePart2-HydraulicDrainageAndCulvert
- RBDG-MAN-017-0107-RailwaySubstructurePart3-BridgesOverpassesTunnels\_Redacted
- RBDG-MAN-018-0101\_RailwayEnergyPart1-TractionPowerSystem
- RBDG-MAN-019-0103\_RailwayEnergyPart2-Catenary
- RBDG-MAN-020-0101\_RailwayEnergyPart3-NonTractionPowerSupply
- RBDG-MAN-021-0101\_RailwayEnergyPart4-ElectromagneticCompatibility
- RBDG-MAN-025-0105\_InfrastructureFacilities
- RBDG-MAN-026-0102\_StationsAndPassengerPlatforms\_Redacted
- RBDG-MAN-027-0104\_Environment\_Redacted
- RBDG-MAN-028-0101\_MEP\_Tunnel
- RBDG-MAN-029-0102\_AdaptionToClimateChange
- RBDG-MAN-031-0104\_ALVDG

In addition, GIS data providing information on population and jobs in the Baltic region was facilitated in order to analyse the socio-economic impact of synergy proposals.

### Review of Relevant International Experiences and Case Studies

Work Packages (WP)	Scope / Relevant Case Studies
<b>TELECOMMUNICATION WAYLEAVES</b>	<ul style="list-style-type: none"> <li>• Case study W.1: New services/offers: Wayleave of high-speed rail dark fibre optic network</li> </ul>
<b>INFORMATION NETWORKS AND DIGITAL INFRASTRUCTURE</b>	<ul style="list-style-type: none"> <li>• Case study D.1 Deployment of 5G Mobile Network at Railway</li> <li>• Case study D.2: Deployment of 5G Multi-Access Core Platform – Maximising Efficiency in 5G Rollout</li> <li>• Case Study/Use Case D.3: Synergies in Deployment of 5G Mobile Networks Between Rail Administrator, MNOs and Non-rail Entities.</li> <li>• Case Study D.4: Communication Transport Network Based on Fibre Optic Technology</li> <li>• Case Study D.5: “Smart Station” - Communications and Advanced Services</li> <li>• Case Study/Use Case D.6: Sharing of Edge Computing and Cloud Centres.</li> </ul>
<b>ENERGY INFRASTRUCTURE</b>	<ul style="list-style-type: none"> <li>• Case Study E.1: Installation of Renewable Energy Generation Sources. Photovoltaic Panels and Mini Wind Turbines.</li> <li>• Case Study E.2: Utilisation of the Energy Subsystem to Transfer Electrical Energy Generated by the Infrastructure Manager (IM) or Third Parties.</li> <li>• Case Study E.3: Development of an Electrical Car Charging Network, ADIF.</li> <li>• Case Study E.4: Development of Fuel Cell Electrical Vehicle Charging Infrastructure (FCEV Charging Infrastructure)</li> </ul>
<b>LOCAL CONNECTIONS FOR INDUSTRIAL AREAS</b>	<ul style="list-style-type: none"> <li>• Case Study I.1: Construction of Private Railway Access for Relevant Private Industrial or Logistic Areas.</li> </ul>
<b>OTHER AREAS</b>	<ul style="list-style-type: none"> <li>• Case Study RI.1: Railway Innovation Hub, Malaga (Spain).</li> </ul>