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Digital Rail Baltica: Geospatial Solutions for Railway Megaproject Management

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Rail Baltica



Connected Baltics in a Connected Europe

We are delivering seamless mobility for people, goods and services to accelerate social and economic development in the Baltics and beyond

Rail Baltica



RIX Airport Station





A new standard for freight and passenger mobility



870 km greenfield railway infrastructure

1435 mm Double track





Electrified 2x25kV AC

Maximum length of freight trains: 1050m

Axle load 25t

Design speed: 249 km/h for passenger trains 120 km/h for freight trains SE-C (Swedish) loading gauge

3

* Subject to confirmation



Rail Baltica project timeline

2023

- Mainline designs' completion
- Delivery programme 2030
- Market readiness for material supply & logistics (incl. consolidated material procurements)
- New generation Cost-Benefit Analysis and Business Plan
- Decisions to ensure operational readiness (IGA on infra management and exploitation model, rolling stock etc.)

2024-2027

Construction!



2028-2030

4

- Testing
- Validation
- Operations & full interoperability ensured
- New economic and security network corridor developed

Construction in progress

Gradual start of operations



From Design....



...To Construction Geospatial approach





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What Design Phase brings to Construction Phase

2D data: Thematic Maps, Dashboards etc.





91

12

298 53



3D data: BIM, Lidar, Mesh





Internal Data Sharing Policy







Public Awareness and External Data Sharing Policy

6

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Construction Phase

Field Applications. On-site Data



Remote Sensing (UAV)

















Design Phase & Construction Phase Outcomes







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Thank You!



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