



Rail Baltica - a greenfield megaproject aspiring to attract world-class expertise to develop a new Northern economic corridor.

KASPARS BRIŠKENS

Business Development Manager, RB RAIL AS

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Connecting Europe Facility

What is Rail Baltica?

Railway
infrastructure for
passenger and
freight movement

Catalyst for an
economic corridor
in North-East
Europe

Rail Baltica: Part of the North Sea Baltic TEN-T Core Network Corridor



The Baltic States:

- crossroads for the Eurasian and European gauge railways
- Connecting south of Europe with the Arctic Corridor
- Rail Baltica EU transportation corridor connected with other corridors



Central Asia,
CIS

— North Sea - Baltic
— Baltic-Adriatic



Technical Parameters of Rail Baltica



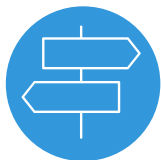
Axle load
25t



Traffic management:
ERTMS Level 2



Maximum length
of freight trains:
1050m



Total length of line is 870
km

- 213 km in Estonia
- 265 km in Latvia
- 391 km in Lithuania



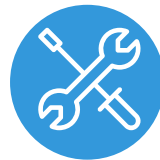
Design speed:

- 249 km/h for passenger trains
- 120 km/h for freight trains

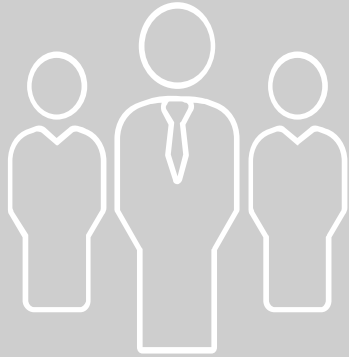


Standard gauge:

- 1435 mm
- Double track
- Electrified

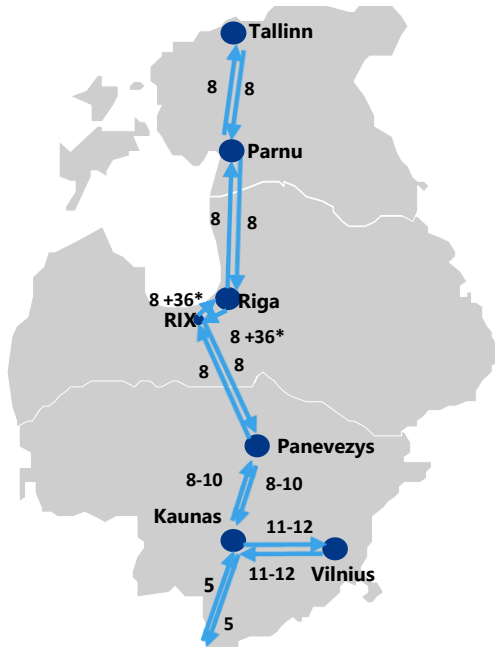


2x25kV AC



New Economic Corridor

Main Users– Domestic and Intra-Baltic Passengers

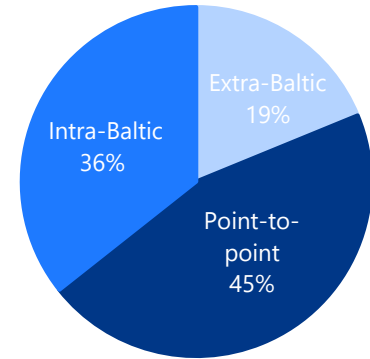
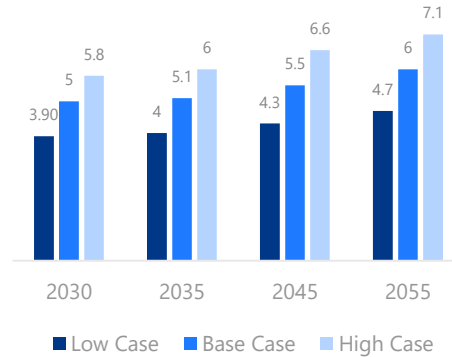


Kaunas - PL/LT border

* Riga - RIX shuttle

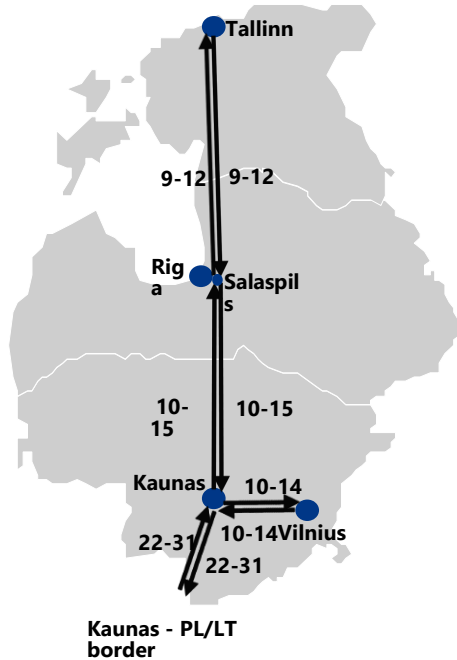


Passenger flow potential (mln.passengers)

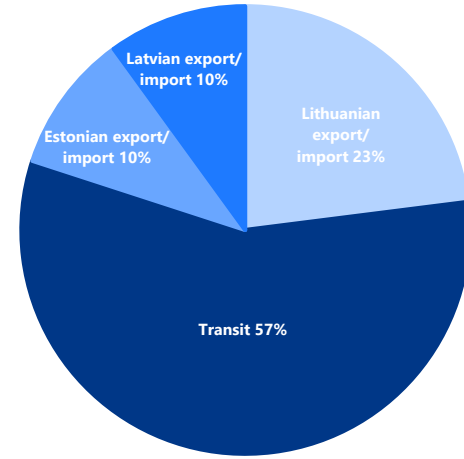
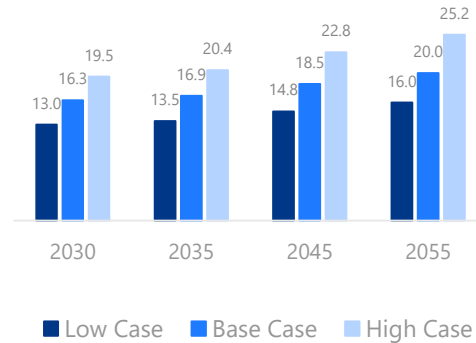


- Point-to-point: exactly between two stations
- Intra-Baltic: between EE/LV/LT
- Extra-Baltic: to/from outside the Baltics

Freight – A Diversified Mix of Baltic, North-South and East-West Flows



RAIL BALTICA freight flow potential (mln.tonnes)

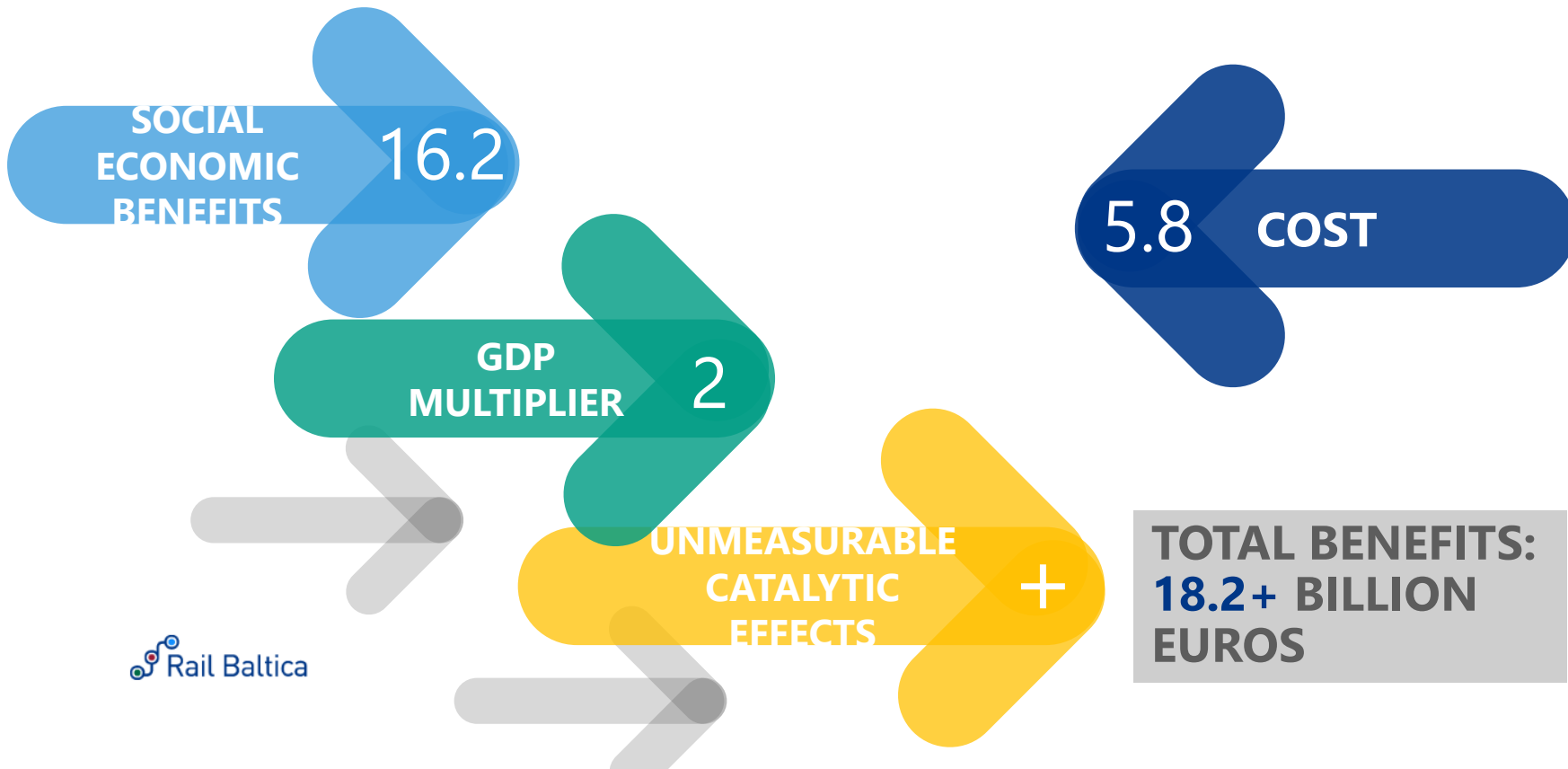


Transit flows

- ▶ Finland's trade with the rest of the EU
- ▶ Transshipments between the rest of EU and the CIS

Benefits versus Costs

Bln EUR



The Infinite Loop of Innovation

Smart project delivery

Innovative components (life-cycle)
BIM-based design & construction

Seamless PaxEx

Smooth intermodal mobility (no waiting | effortless planning)
Ticketing, baggage, safety/security, entertainment
Real-time trip-related information

Logistics 4.0

Just-in-time | reliability | visibility
Smart multimodal terminals
Automated operations

Innovation spillovers

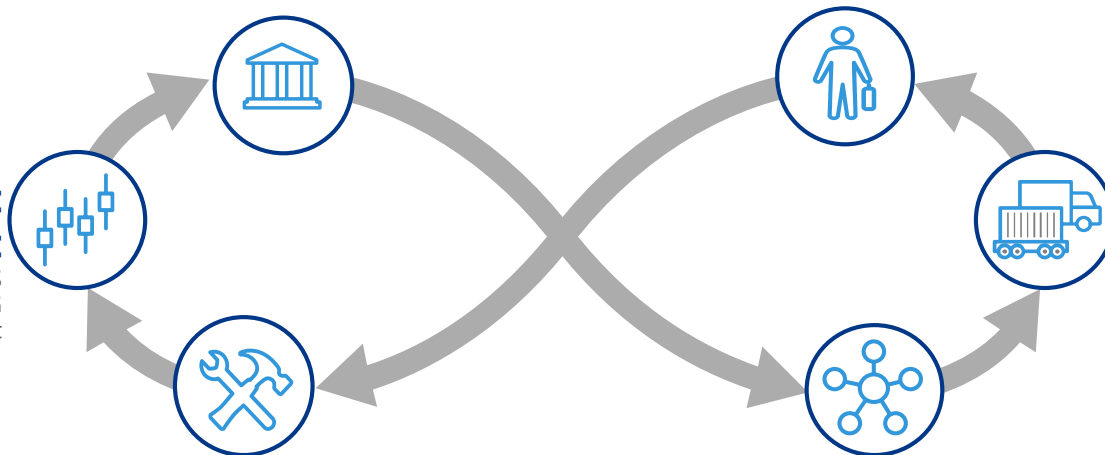
Disruptive start-ups
Digital value chain
Catalytic effects of innovation

Smart maintenance

Condition-based maintenance
Sensors, cameras, Big Data

Smart management

ERTMS
GSM-R vs 5G
Capacity and asset management



Rail Baltica financial contributions from EU and member states*



	Eligible cost	CEF Grant	
EE	€ 235 000 000	€194 000 000	
LV	€ 303 000 000	€247 000 000	
LT	€ 286 000 000	€242 000 000	
TOTAL:	€ 824 000 000	€683 000 000	

Project CAPEX by time and schedule

Table 49 Rail Baltica investment expenses by section (M EUR)*

	Estonia main section	Latvia main section	Lithuania main section	Kaunas - Vilnius spur	Total CAPEX
Railway	612.9	754.0	761.2	275.7	2 403.8
Electrification	124.3	164.4	171.9	51.8	512.4
Signalling	84.9	99.4	138.2	33.5	356.0
Crossings	142.4	277.8	229.8	33.6	683.6
Bridges	12.6	77.8	184.6	131.5	406.4
Tunnels	0.0	73.0	0.0	0.0	73.0
Stations & facilities	186.2	300.0	74.6	150.0	710.8
Noise walls	27.2	59.5	33.3	n/a*	120.0
Land acquisition	22.6	50.8	35.0	21.5	129.9
Technical studies, planning & design	68.7	111.7	32.0	7.0	219.4
Contingency cost	64.1	n/a*	73.7	35.2	173.0
Total cost	1 345.9	1 968.4	1 734.2	739.6	5 788.1

* Part of other expense elements

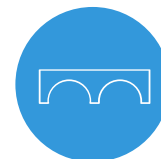


Table 50 Schedule of projected investment expenses per country for the period 2015-2025 (M EUR)

	Total CAPEX	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estonia	1 345.9	0.1	0.7	19.0	40.9	103.8	74.9	55.6	276.0	302.7	353.4	118.8
Latvia	1 968.4	0.1	0.8	12.3	40.8	93.6	343.4	214.7	317.6	484.5	358.2	102.4
Lithuania	2 473.8	0.1	2.9	32.9	51.3	39.8	278.7	327.7	487.5	606.6	502.8	143.6
Total	5 788.1	0.3	4.4	64.2	132.9	237.2	697.0	598.0	1 081.1	1 393.8	1 214.4	364.7

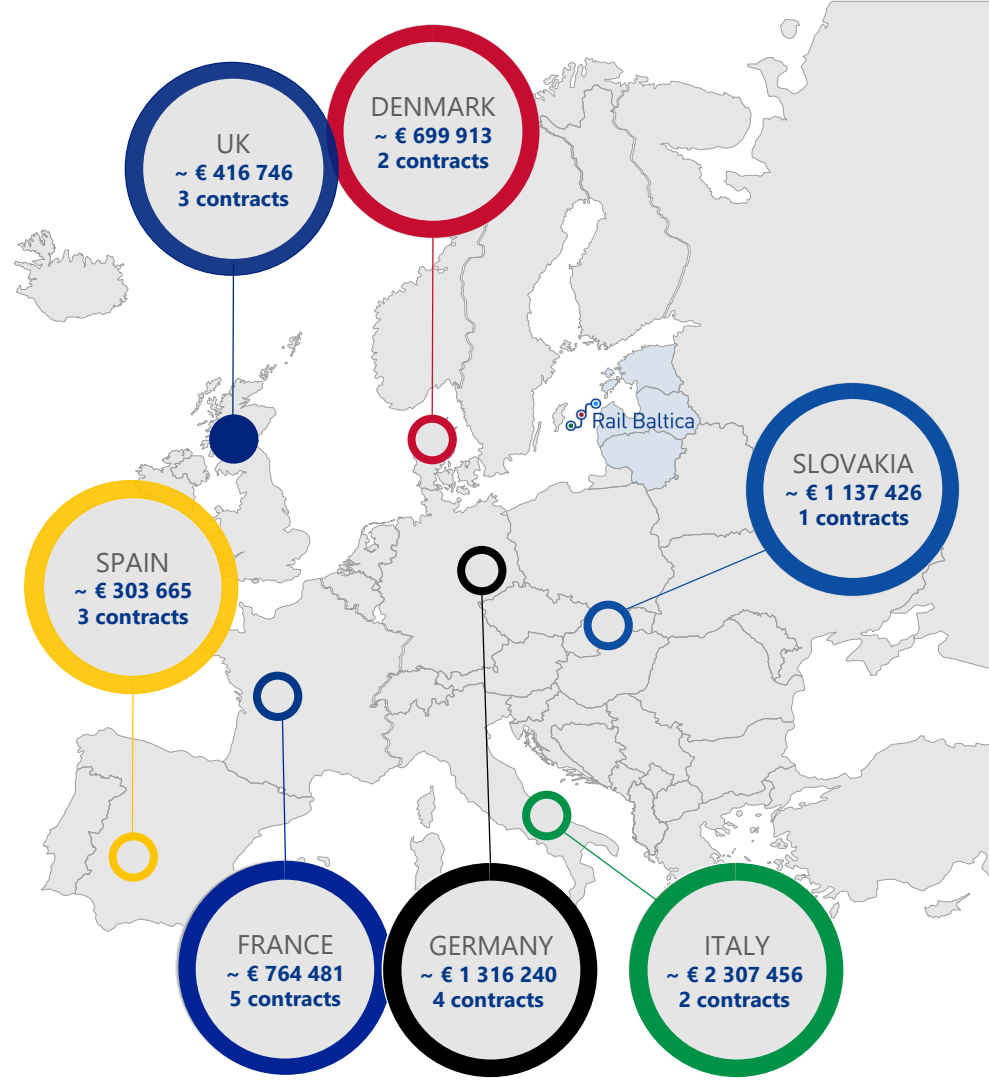
Share of the Contract Value of non-Baltic EU Members - 63%*

Rail Baltica Study & Design Contract Value

2015	2016	2017	2018 - 2020
€ 185 471	€ 641 326	€ 2 076 939	€ 8 050 007

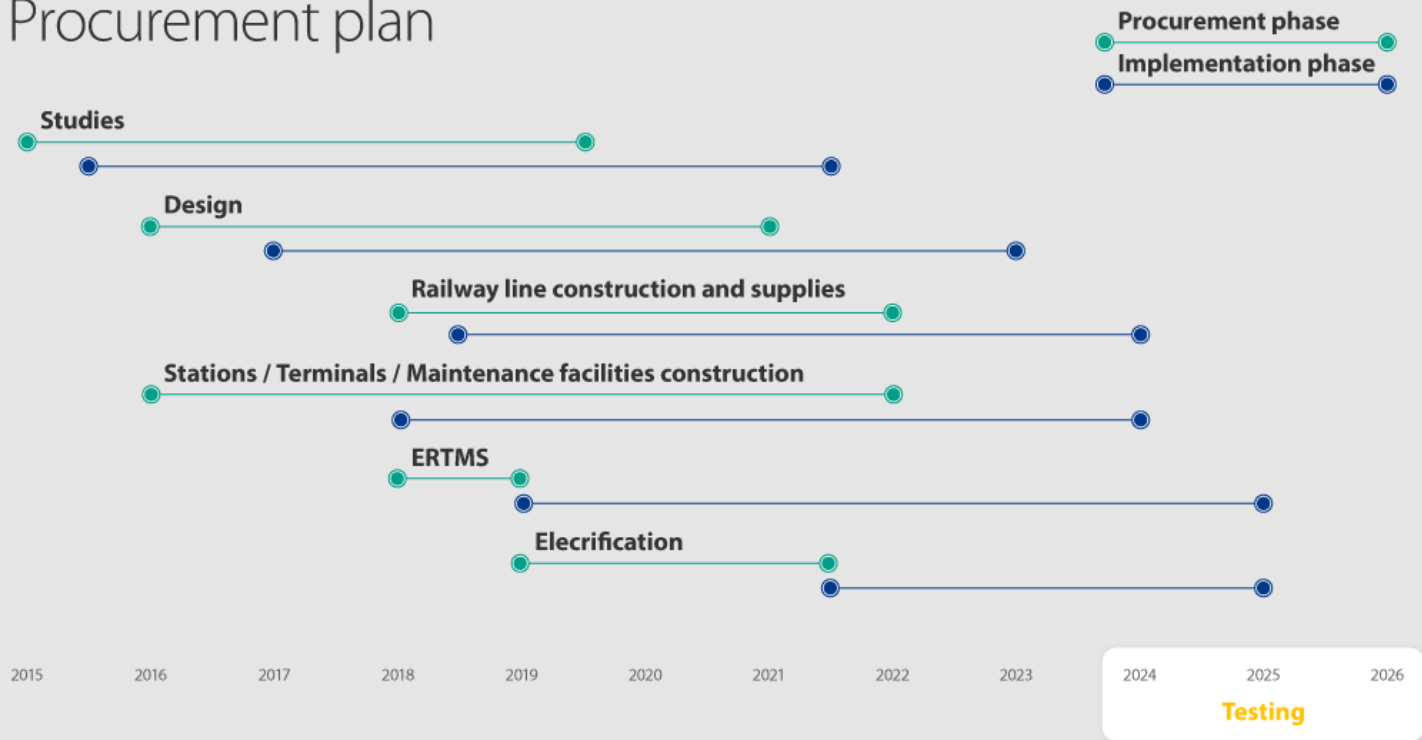
Total: € 10 953 741

Share of Non-Baltic EU Members : € 6 945 927
Number of Contracts: 20

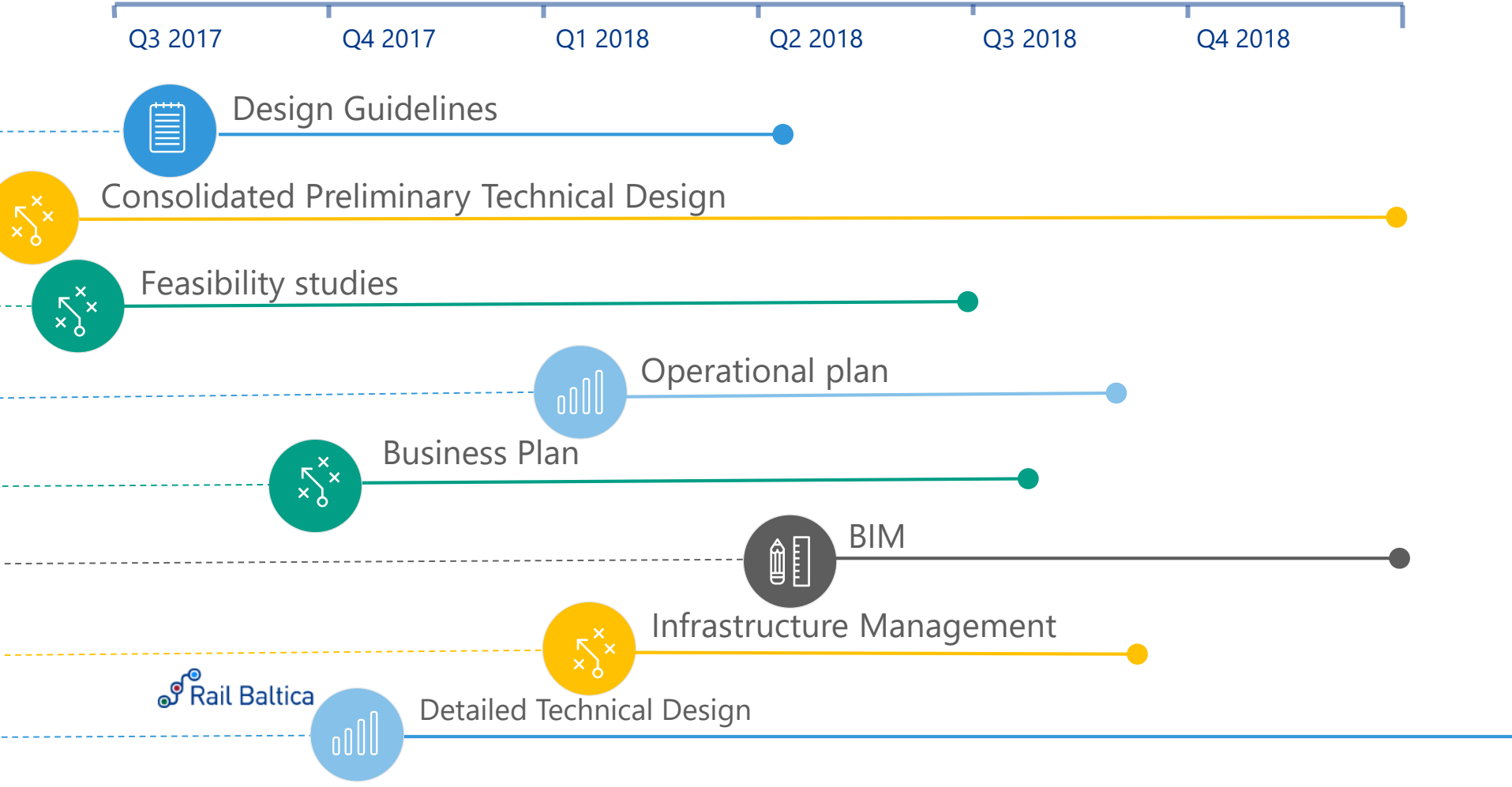


* According to the procurements completed on 04.04.2018.

Procurement plan

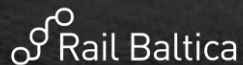


Process timeline



Thank you!

RB Rail AS is a multi-national joint venture of the Republics of Estonia, Latvia and Lithuania, which has been established to implement Rail Baltica



RailBalticaGlobalProject



Info@railbaltica.org



railbaltica.org



K. Valdemara iela 8, 4th floor,
Riga, Latvia



+ 371 66 967 171



linkedin.com/company/rb-rail



@RailBaltica