

# Project Delivery Overview

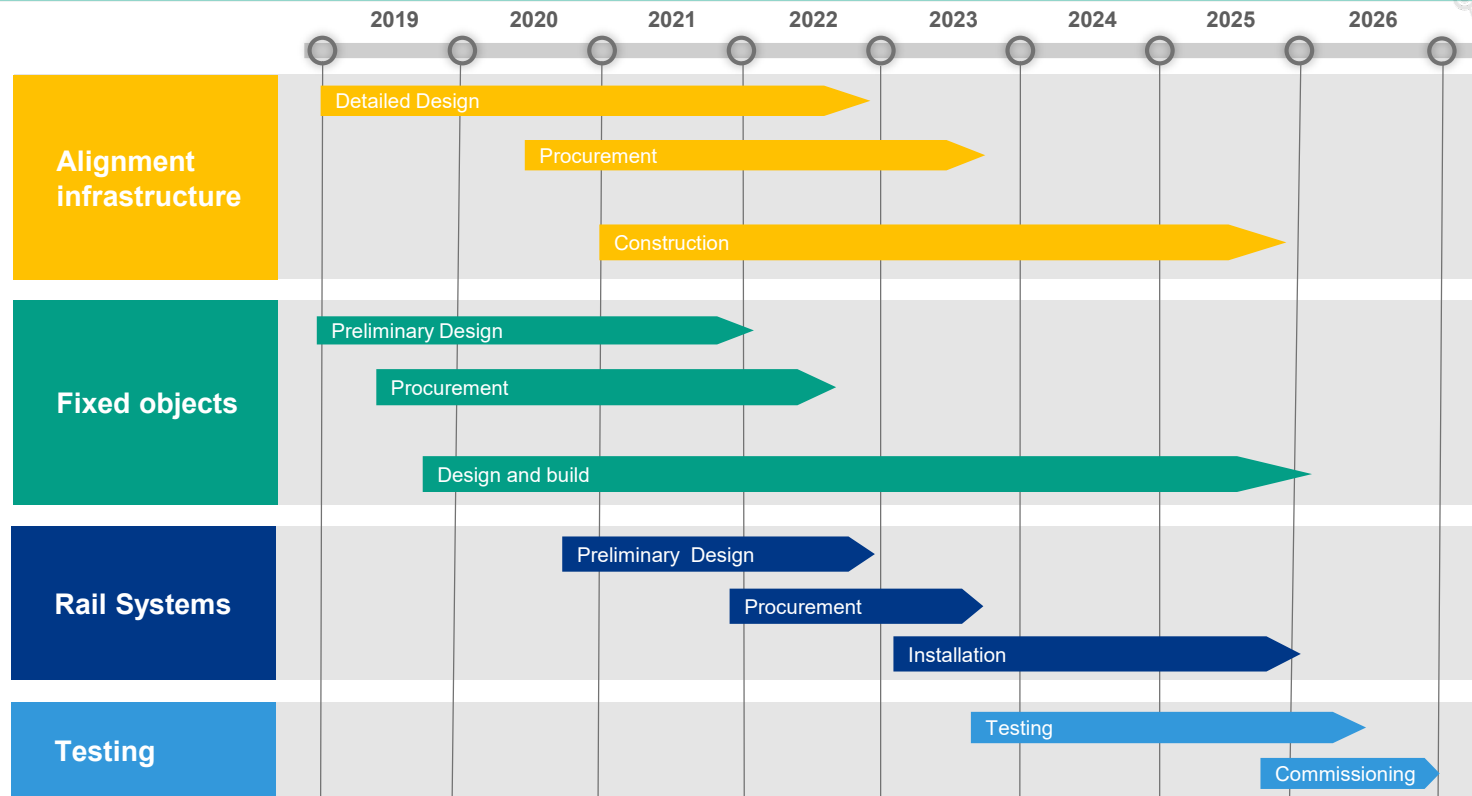
**Mark Loader**

Chief Program Management Officer  
RB Rail AS

Rail Baltica Online Forum  
23 April 2020, Riga



# Overview of Project Construction Timeline



# Alignment Detailed Design Completion Timeline

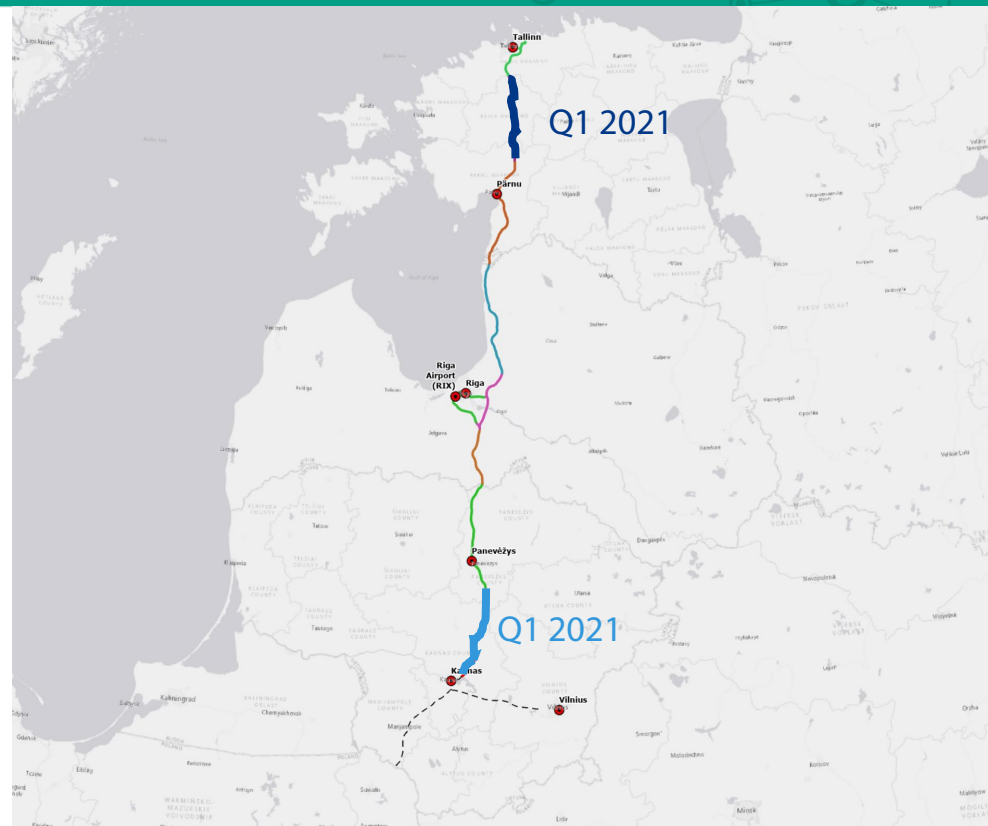
**DTD complete by 2021, Quarter 1**



Rapla – Pärnu



Ramygala - Kaunas



# Alignment Detailed Design Completion Timeline

DTD complete by 2021, Quarter 3



Tallinn-Rapla



Vangaži – Misa



Rīga section



Ramygala – to LT/LV border



# Alignment Detailed Design Completion Timeline

**DTD complete by 2022, Quarter 4**



Pärnu to EE/LV border

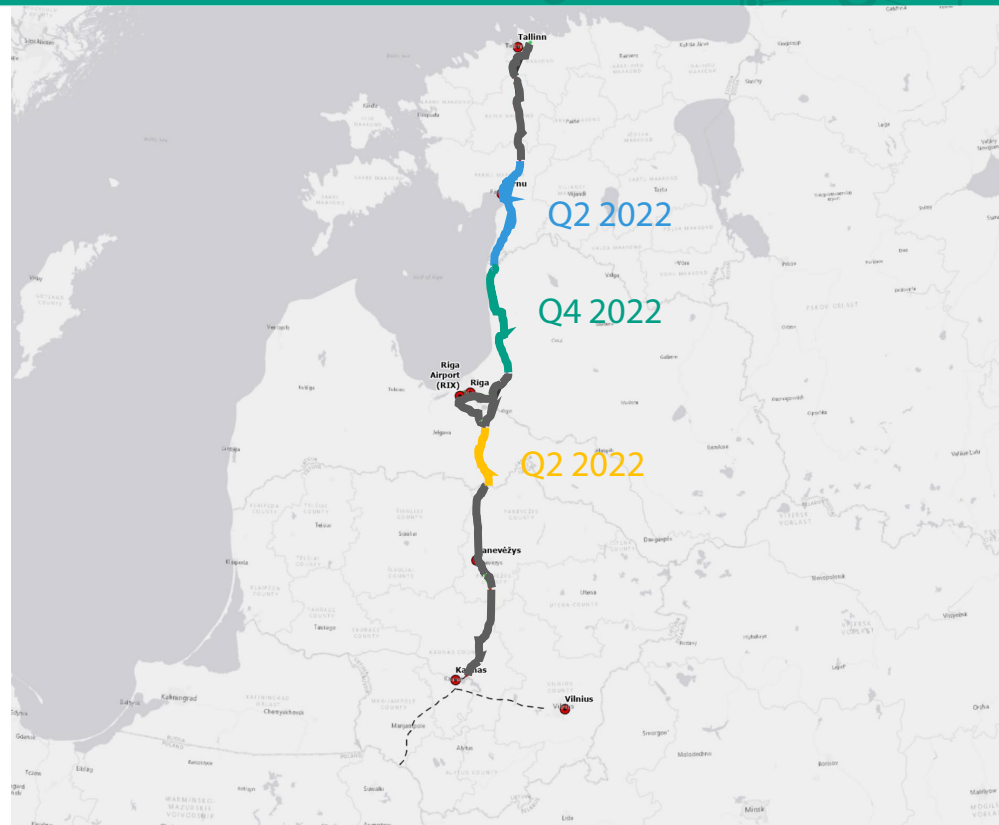


Misa to LV/LT border



Vangaži to LV/EE border

**DTD for Kaunas – Lithuanian/Polish  
state border and Kaunas – Vilnius will  
commence after completion of special  
plan**



# Overview of Construction Scope

## Design Speed

249 km/h – passenger trains  
120 km/h – freight trains

## Standard Gauge

1435 mm

## Double-track Electrified

2x25kV AC

## Axle Load

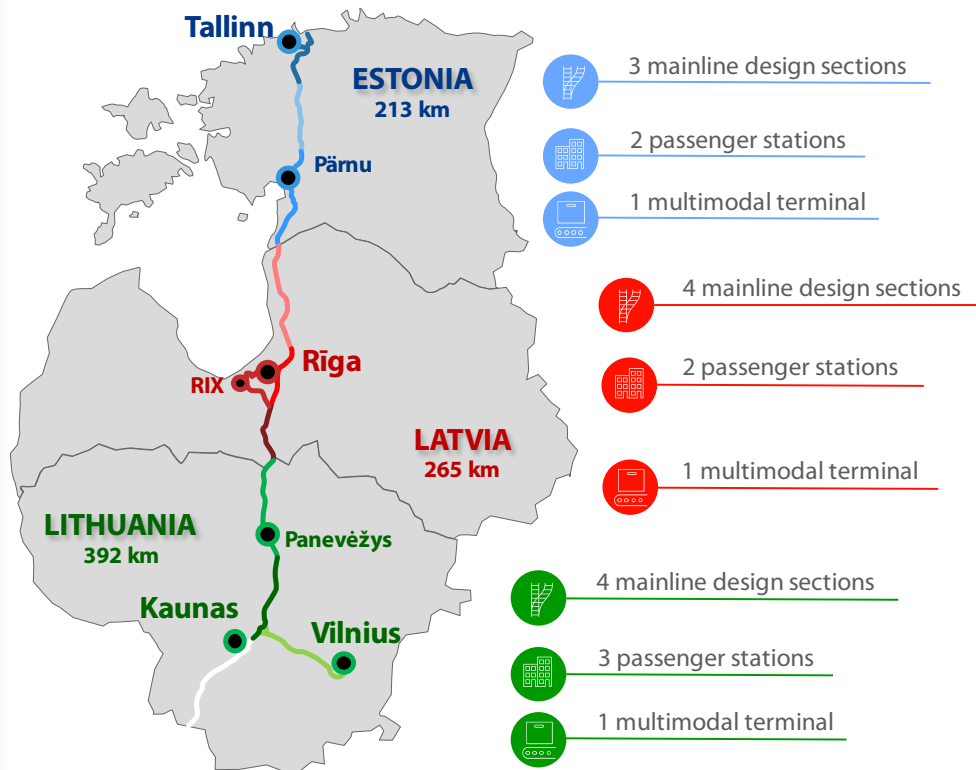
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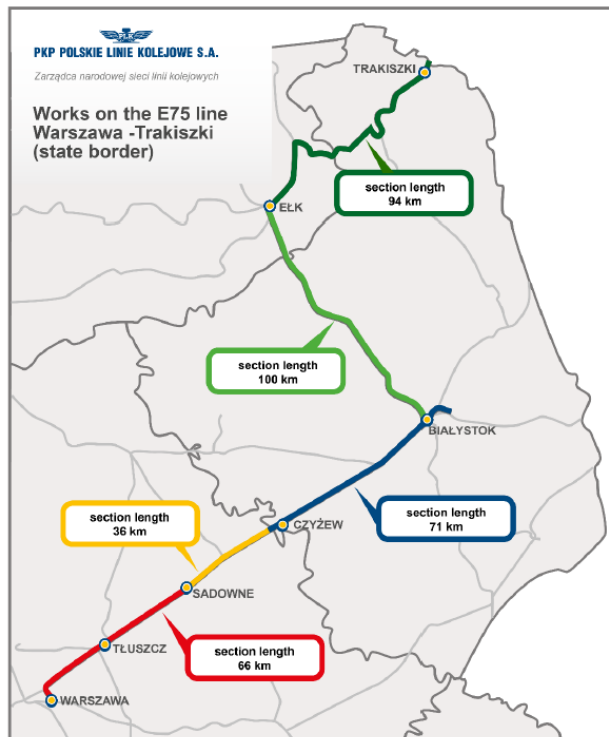
## Traffic Management

ERTMS 2

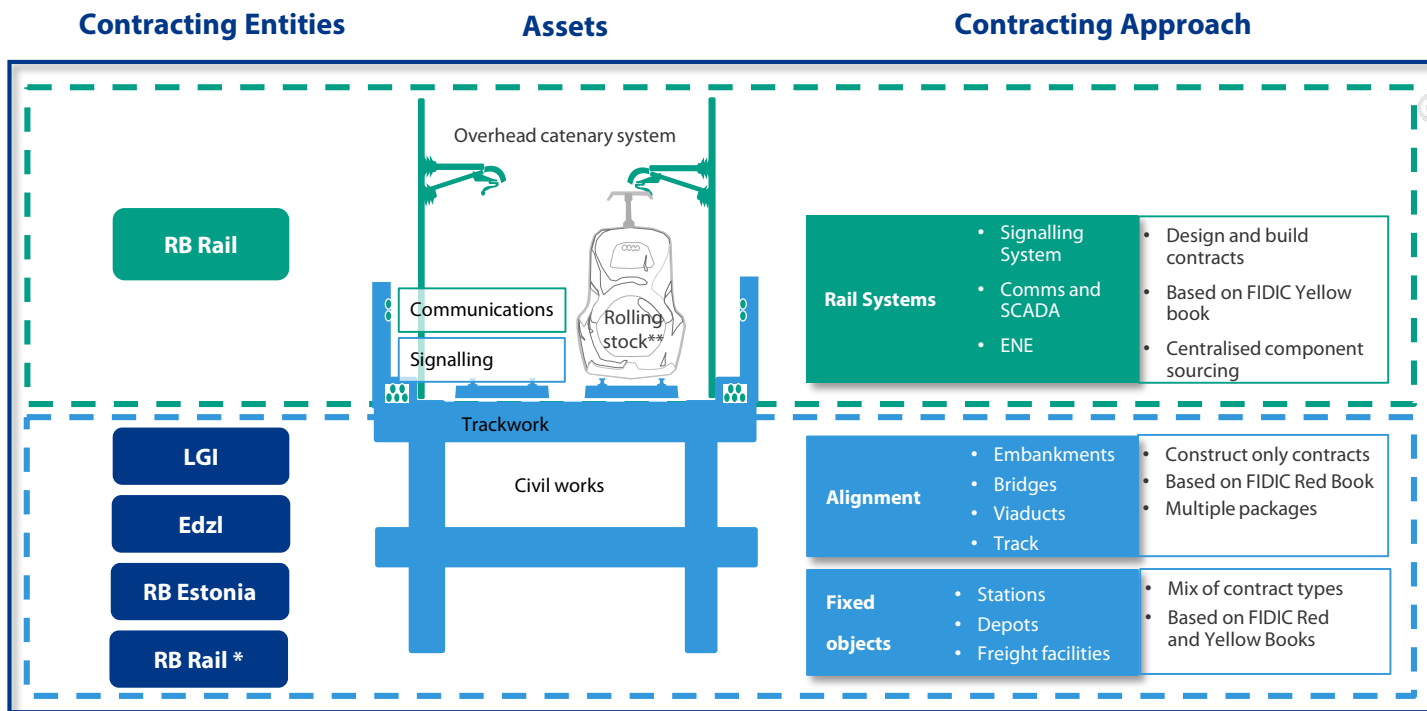
## Max. Freight Train Length

1050 m





Status	Section	Section length [km]
Project completed	Warszawa– Tłuszcz (Sadowne)	66
Construction works were completed in the scope of putting into service tracks no. 1 and 2	Sadowne – Czyżew	36
Before signing the contract for construction works	Czyżew – Białystok	71
Designing and obtaining building permit decisions in progress	Białystok – Elk	100
Study documentation is being prepared	Elk - Trakiszki	94
Rail Baltica in Poland		367



\* RB Rail is responsible for cross border elements of alignment

\*\* Rolling stock procurement is not part of the project scope



## Fixed objects:

- Station design works commencing
- Freight terminals design tenders in Q2/Q3 2020
- Rolling stock and service depot design tenders Q2/Q3 2020
- Dry ports study at Soodevahe – Q2 2020

## Alignment infrastructure:

- Main electrical crossing to be tendered Q1 2021
- Gas pipeline reconstruction design construction tender – Q3 2020
- Rail-road viaducts:
  - 17 pcs on local roads –tenders Q3 2020- Q2 2021
  - 9 pcs in municipalities' roads – Tender Q2 2021
- Green bridges Rapla-Pärnu: construction tenders for 5 pcs – Q2 2021

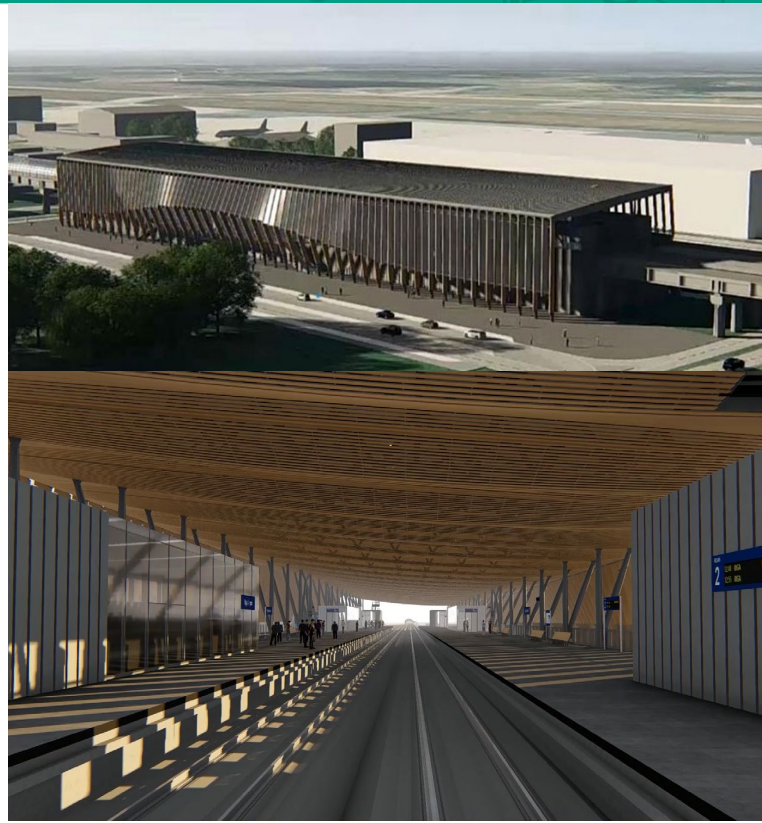


## Fixed objects:

- Signing of Rīga airport section construction contract - planned by end of 2020 (procurement in process)
- Preparatory works for construction activities in Rīga Central Station
- Construction supervision services tender to be launched
- Detailed technical design of multimodal terminal in Salaspils

## Alignment infrastructure:

- Additional Environmental impact assessment services – Planning commenced
- Central alignment section construction – initial package procurement to be launched Q4 2020
- Study on railway network development in Riga node



## Fixed objects:

- Development of Kaunas Infrastructure maintenance facilities – special planning commenced
- Works underway in Kaunas – Palemonas area

## Alignment infrastructure:

- **Kaunas – LT/LV border section** – Construction procurement commenced for 475m EUR of works
  - 9 Lots planned for procurement
  - 59 km of alignment
  - Key structures such as Neris bridge
  - Includes track construction





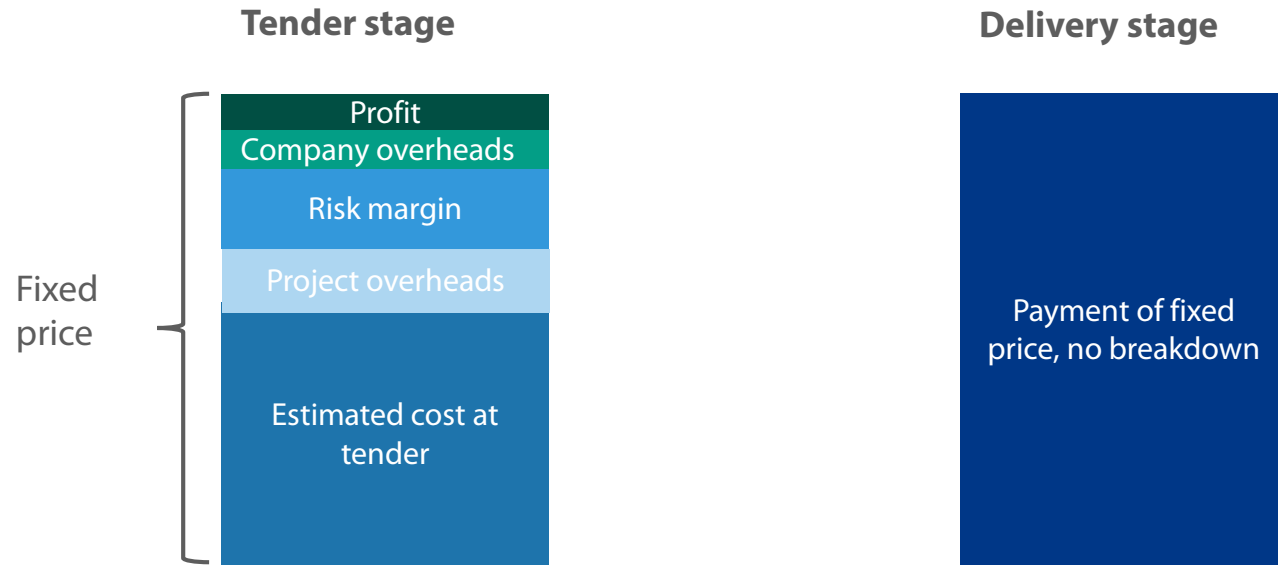
- **Engineering services commencing for all rail systems including power systems, ERTMS, and communications systems**
- **Independent checking and assurance services to be launched**
- **Shadow operator being sourced to provide input to design and construction**



# Infrastructure Works Contracting Options Under Consideration

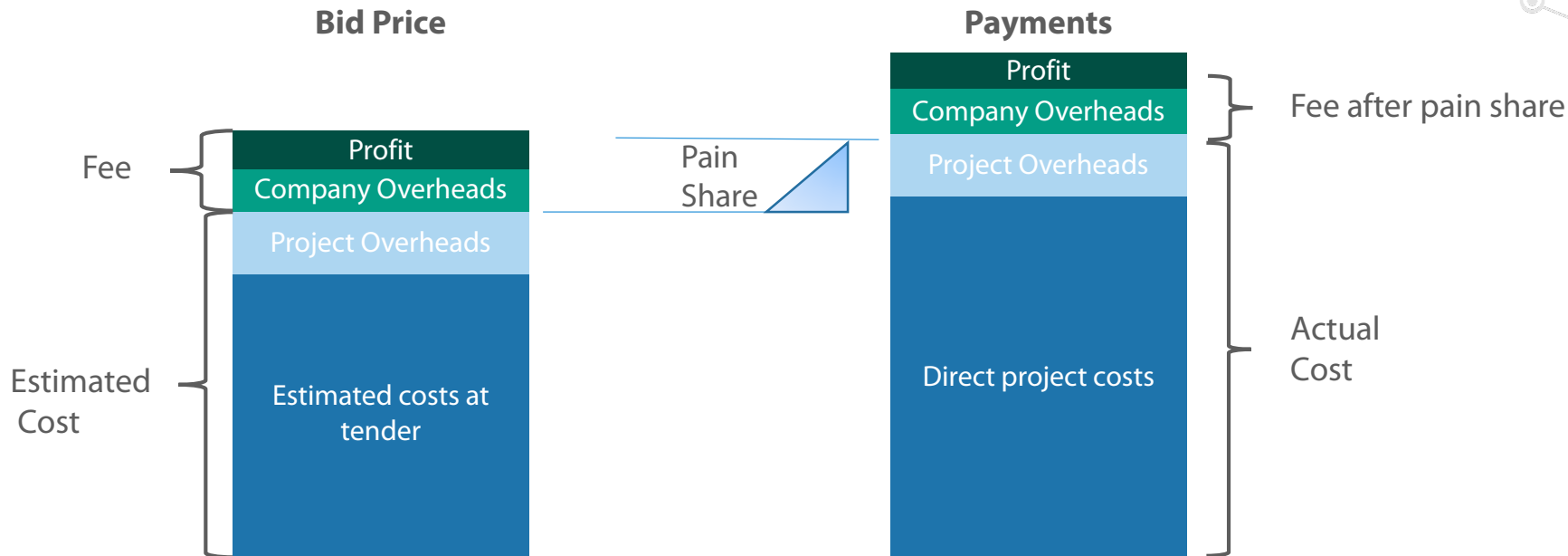
Option	Application
Fixed price, lump sum	Clearly defined scope and risk, scope unlikely to change
Target price / re-measurable	Greater risk sharing to reduce unnecessary risk premiums
Prime contractor	Where benefits can be obtained from grouping work packages together

# Fixed Price Contracting



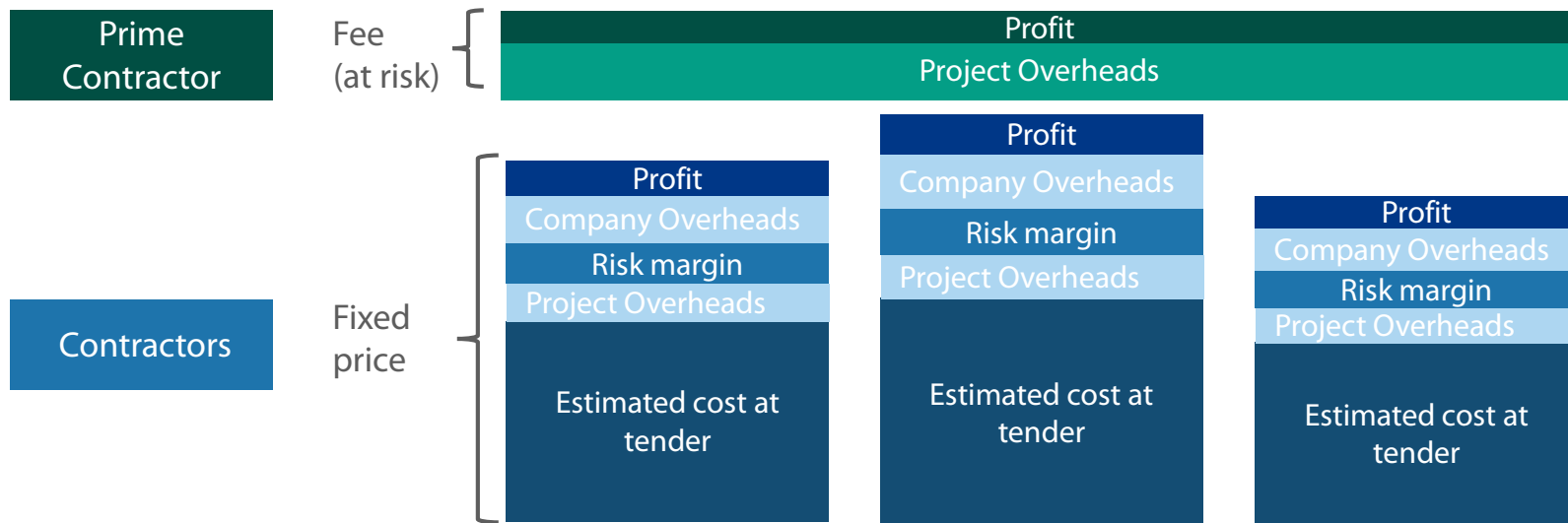
# Target Price Contracting

A re-measurable contract approach where a target cost is set at bid stage, but contractor is reimbursed actual cost, with any difference between target and actual cost being shared by reducing fee paid to contractor



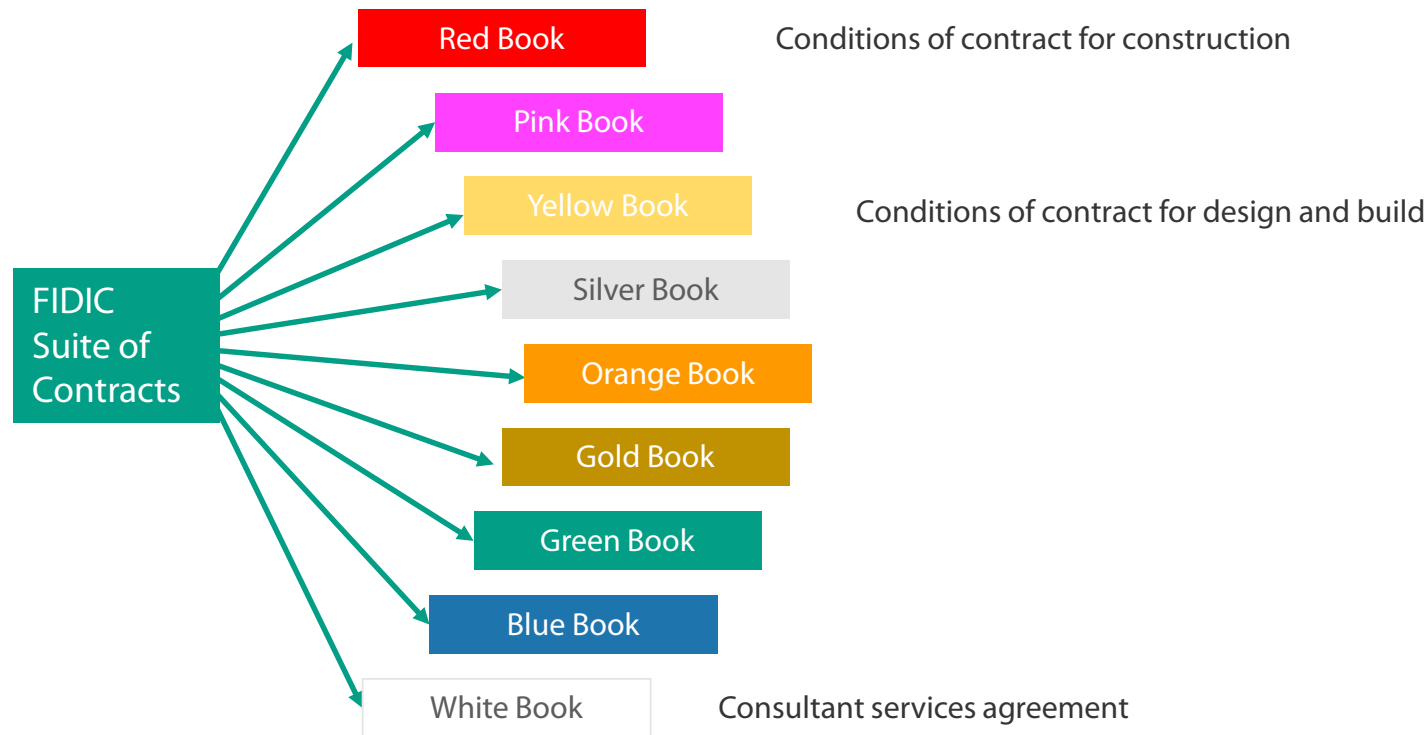
# Prime Contractor Approach

- Prime contractor takes responsibility for delivering a group of work packages
- Generally packages are subcontracted through competitive bids
- Contractor will «step in» to deliver when needed to ensure on time completion
- Contractors fee is at risk – normally around delivery dates and KPIs





# FIDIC contract suite will be used as basis for contracting



- Rail Baltica project remains on plan for opening in 2026
- Will shortly transition from the design phase to construction phase
- Division of construction responsibilities is agreed upon and delivery plans are being developed
- Major procurements and construction will commence over next 12 to 18 months in all aspects of the project
- Aim is to develop the best approaches to contracting – feedback is welcome on the options presented