

Standards Process Projects
P6 Alignment

buildingSMART International
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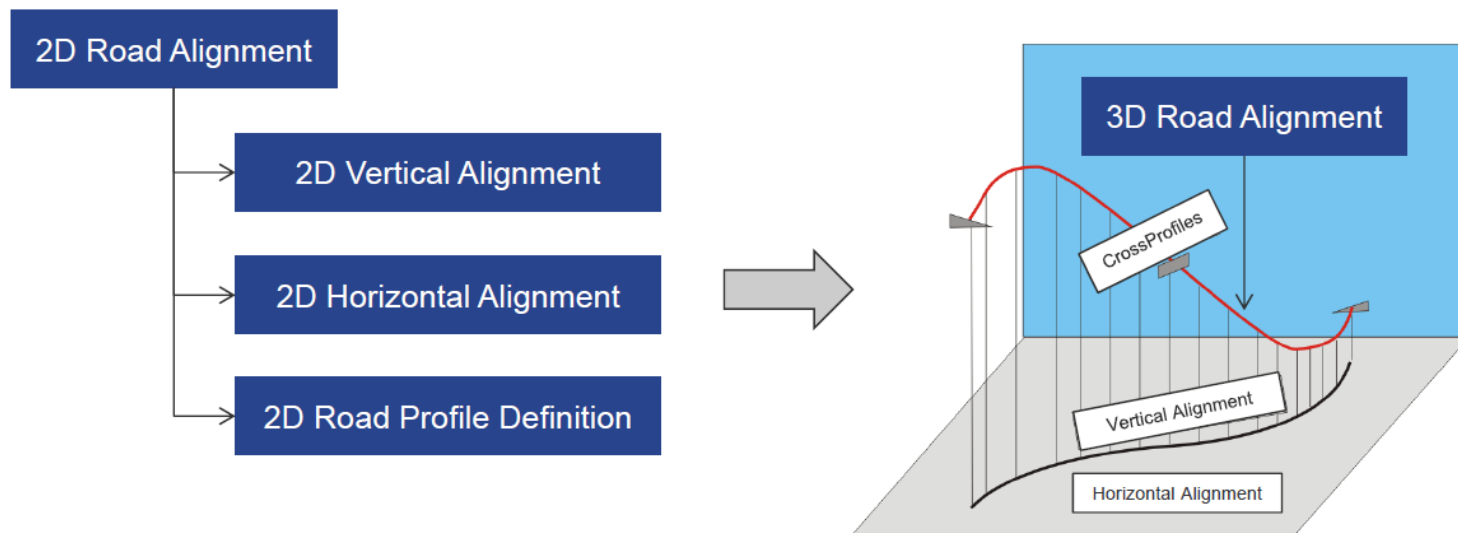
Alignment

- One of the most crucial parts of Infrastructure projects is the alignment
- The alignment is the route of a road (rail track), consisting of series of horizontal tangents and curves
- The construction of roads, rail, tunnels, bridges, etc, depends strongly on the alignment
- The functionality to represent an alignment is not available in the current IFC 4 standard

P6 Alignment

- A project to develop an IFC extension for Alignment became possible with the support of Rijkswaterstaat, Travikverket and the V-Con project
- Project summary and MOU in October 2013
- Project plan available end 2013
- Project start April 2014
- MOU with OGC to develop one conceptual model for IFC and InfraGML

Technical Background



3D road alignment geometry **implicitly** represented
by 2D alignment designs

Scope

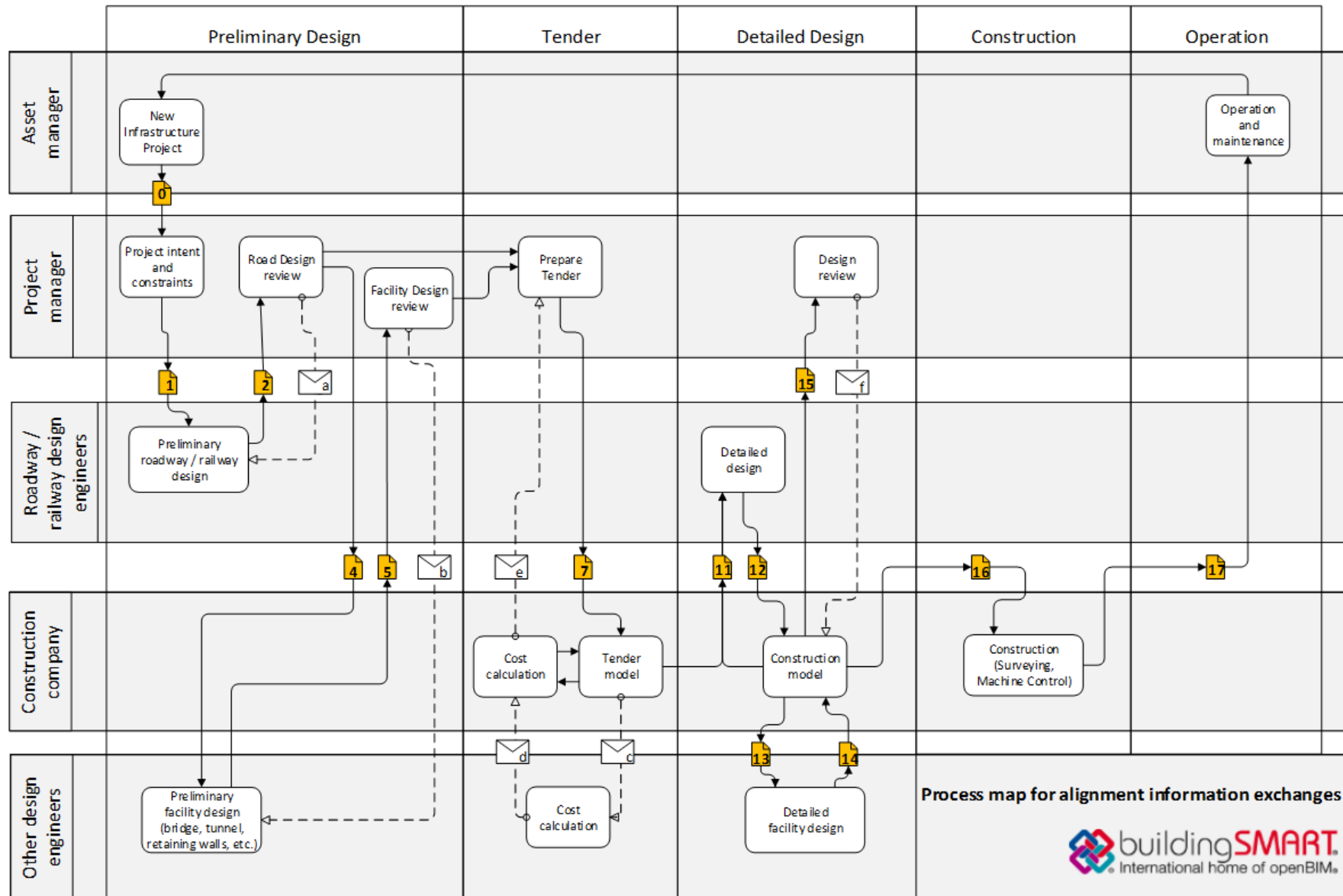


Figure 2: Process map for the design-build type of projects

Project plan

- Wp 1 Requirement analysis
- Wp 2 Conceptual model and IFC extension
- Wp 3 Software demonstrator/validator
- Wp 4 Support expert panels
- Wp 5 Management

Status

- Requirement analysis available and accepted
- Conceptual model finalized and generally accepted
- IFC extension in express available
- Software implementation started
 - Read LandXML and write IFC Alignment
 - Read IFC Alignment and display

Status

- On time
- Within budget
- Acceptance in Expert panel
- In close cooperation and agreement with OGC
- Ready begin 2015
- Next steps in preparation
 - Implementation and test
 - Build other functionality on Alignment

Questions

