

Steve Cockerell

Industry Marketing Director – Rail Bentley Systems















Digital Strategy and **Organisation**

Determine performance goals and identify digital tools to achieve them Analyze current IT systems, identify gaps and set timelines to resolve



Oregon Department of Transportation – United States





Oregon Department of Transportation – United States TransInfo – A CDE for Transportation





Road

- Road cameras
- ☑ / · · · Road Closure
- > 2hr delay
- 20mn-2hr delay
- < 20mn delay</p>
- ☐ No to Min. delay
- Unconfirmed
- Informationa

Coos Bar P

Brookings

Travel Time

Weather

- Weather hazard
- Weather warning
- O Snow zone

Weather stations





Closure US30, 7 miles West of The

Dalles MP 65

Closure

US30, 7 miles East of Mosier MP 64

Closure

US30, 6 miles

Announcements



ystems and processes

in efficiency

ngible benefits



Digital Strategy and Organisation

Determine performance goals and identify digital tools to achieve them Analyze current IT systems, identify gaps and set timelines to resolve



Turn Projects in to Test Labs

Identify potential use cases and launch tool pilots during projects Measure KPI's, celebrate success and learn from failures

Roads and Transport Authority - United Arab Emirates











Route 2020 Dubai's Red Metro Line Extension ExpoLink / RTA – United Arab Emirates









EXPO rision, strategy and roadmap 2020 e / effort in capital projects aintenance costs



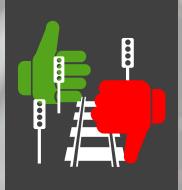
Source: McKinsey & Company – New Age of Engineering and Construction Technology



Network Rail – United Kingdom









RIGHT WORK RIGHT PLACE RIGHT TIME

Network Rail – United Kingdom Linear Asset Decision Support (LADS)







Source: McKinsey & Company – New Age of Engineering and Construction Technology



MRT Corporation – Malaysia





































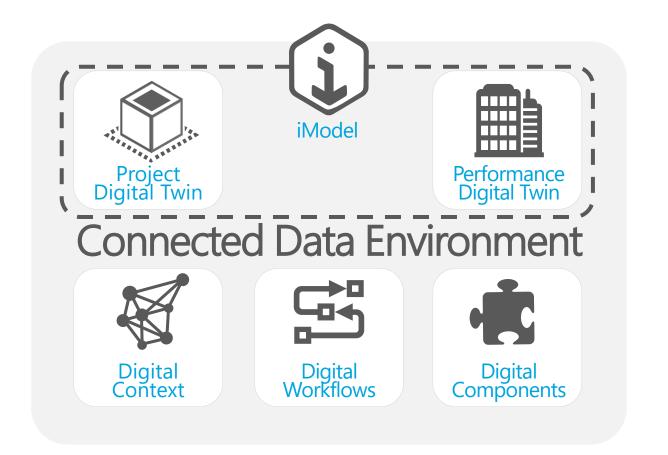
Digital Context



Digital Workflows



Digital Components











Digital Context



Digital Workflows

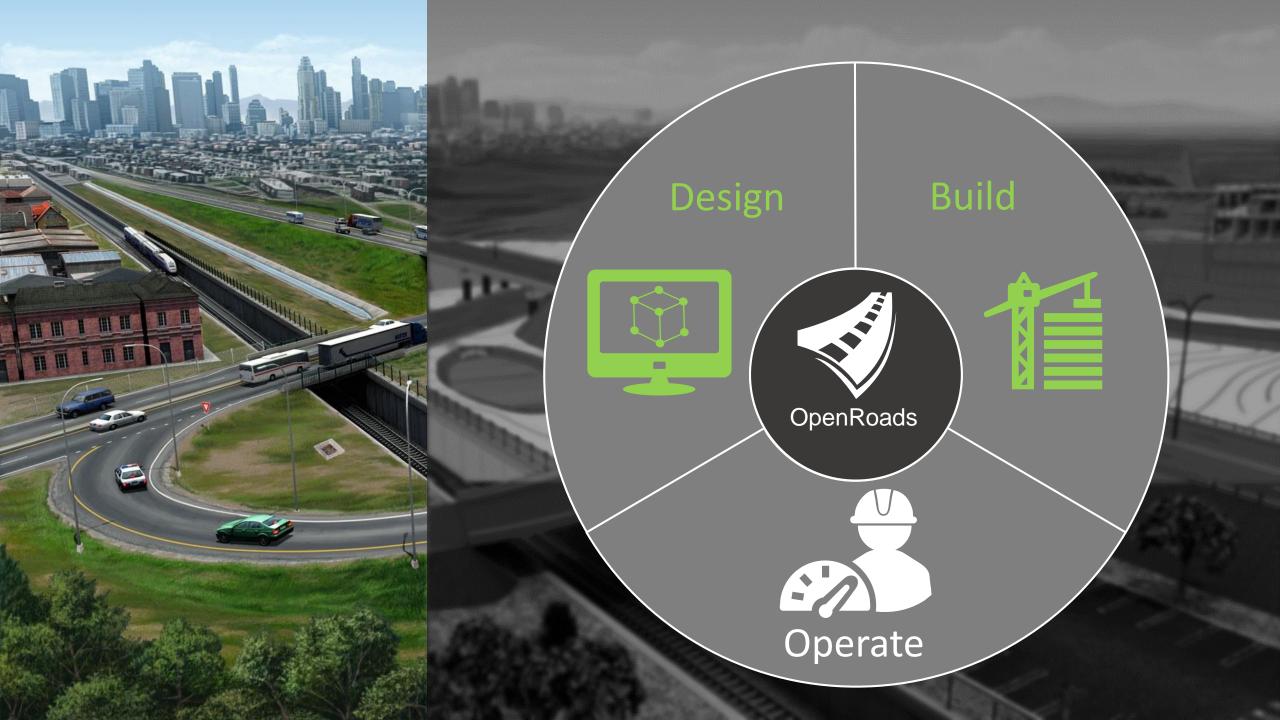


Digital Components



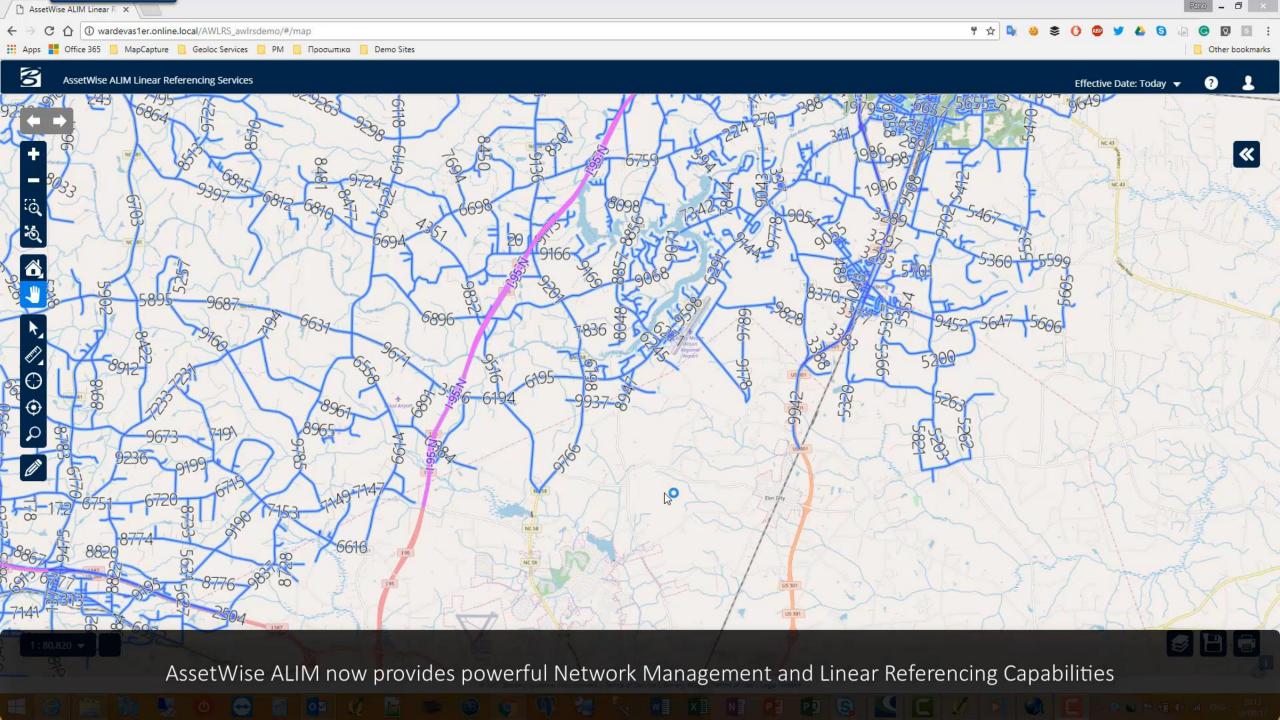


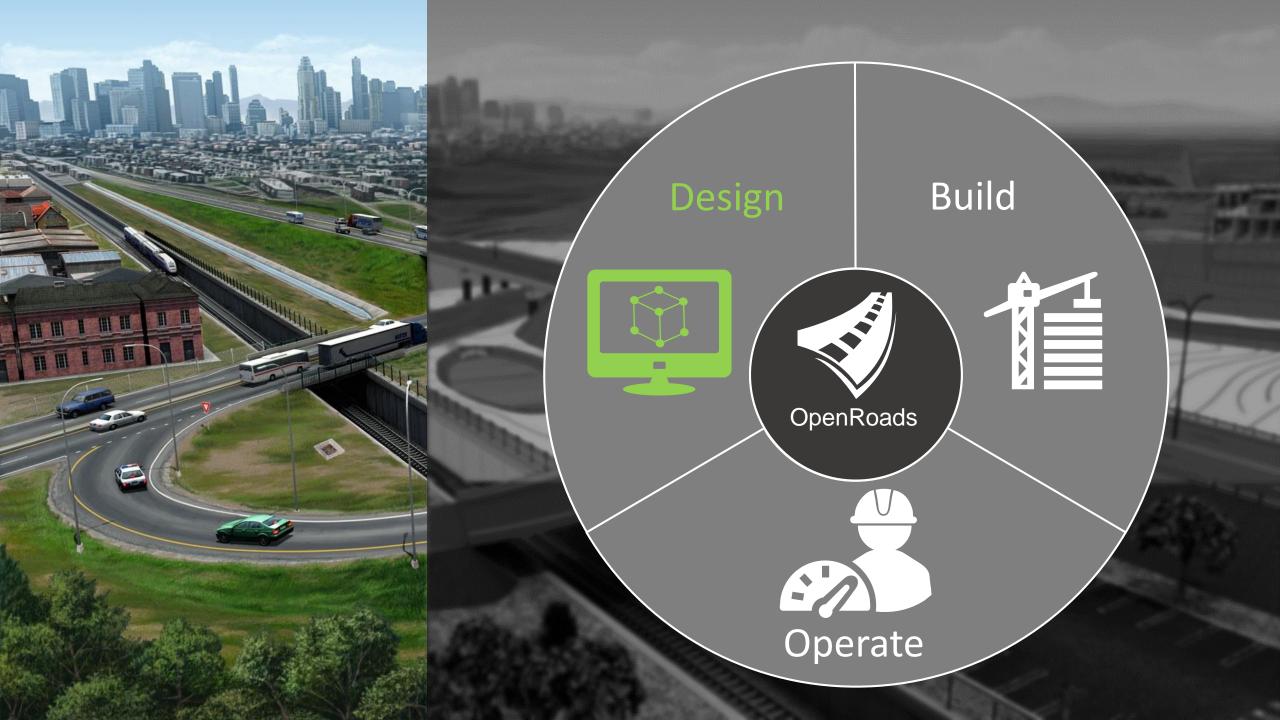








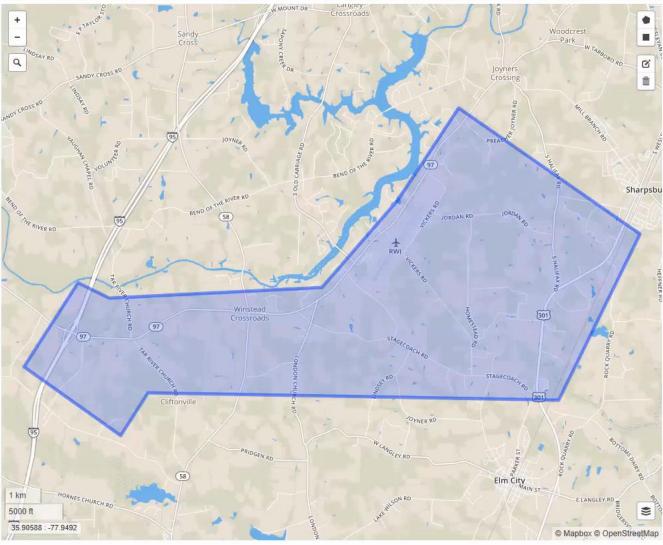








Information



Defined concept area: 108.60 km²

General

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File Location : D:\data sets\CS__YII

Size: 74.692 MB

Compact file

Date created: 2017-09-17 20:25:37 Editor: ConceptStation CONNECT Edition

Coordinate system:

UTM-WGS 1984 datum, Zone 18 North, Meter; Cent. Meridian 75d W - UTM84-18N

Cannot be changed because the file already contains elements or attached models.

Polygon Coordinates (Latitude, Longitude):

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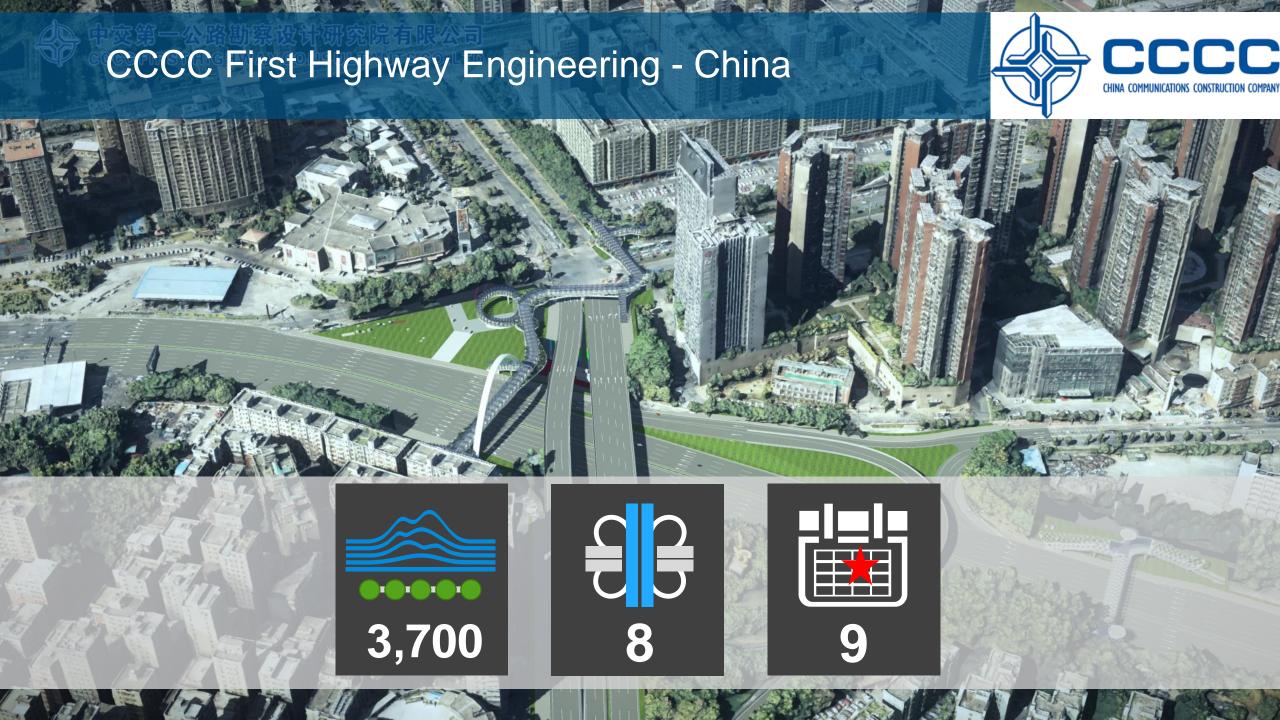
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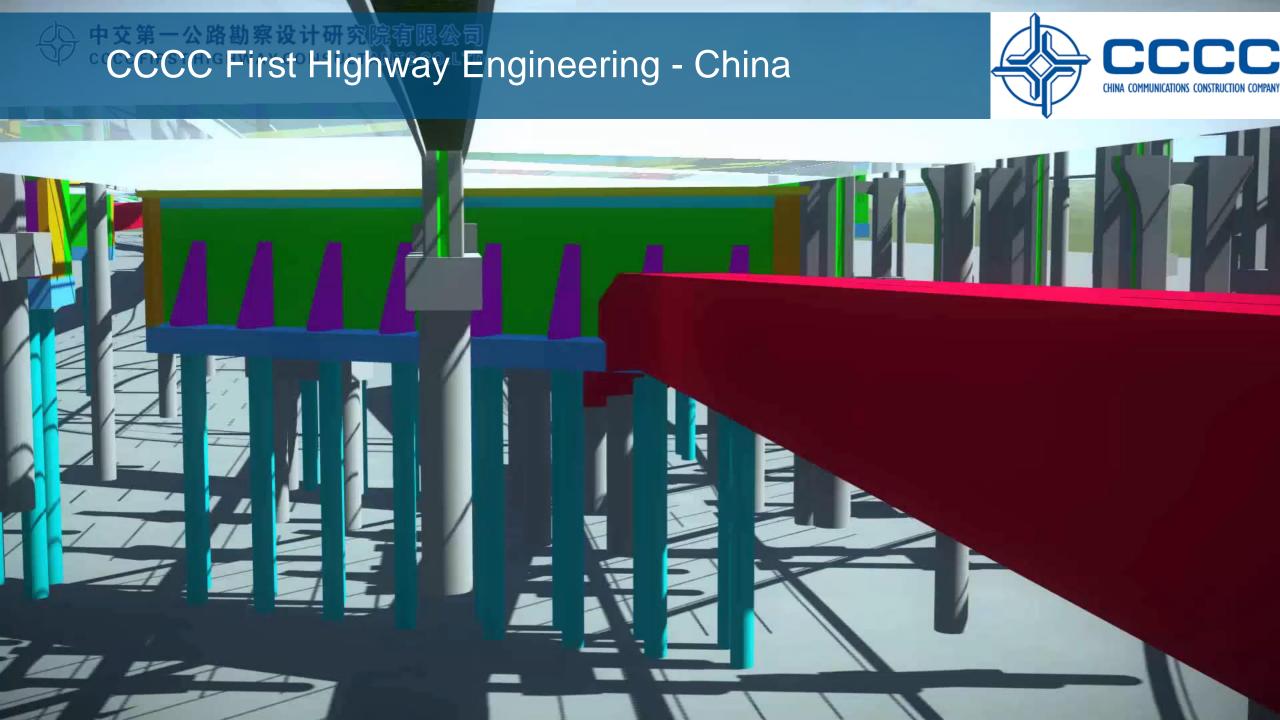
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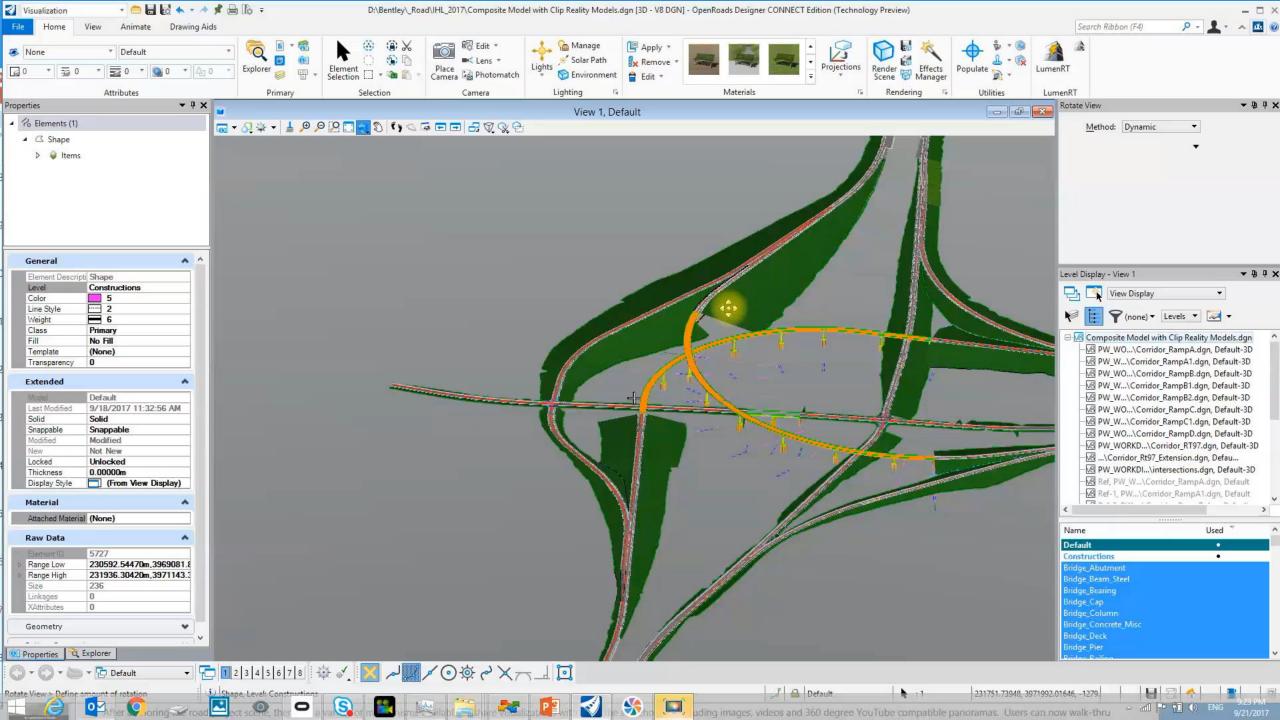




CCCC First Highway Engineering - China



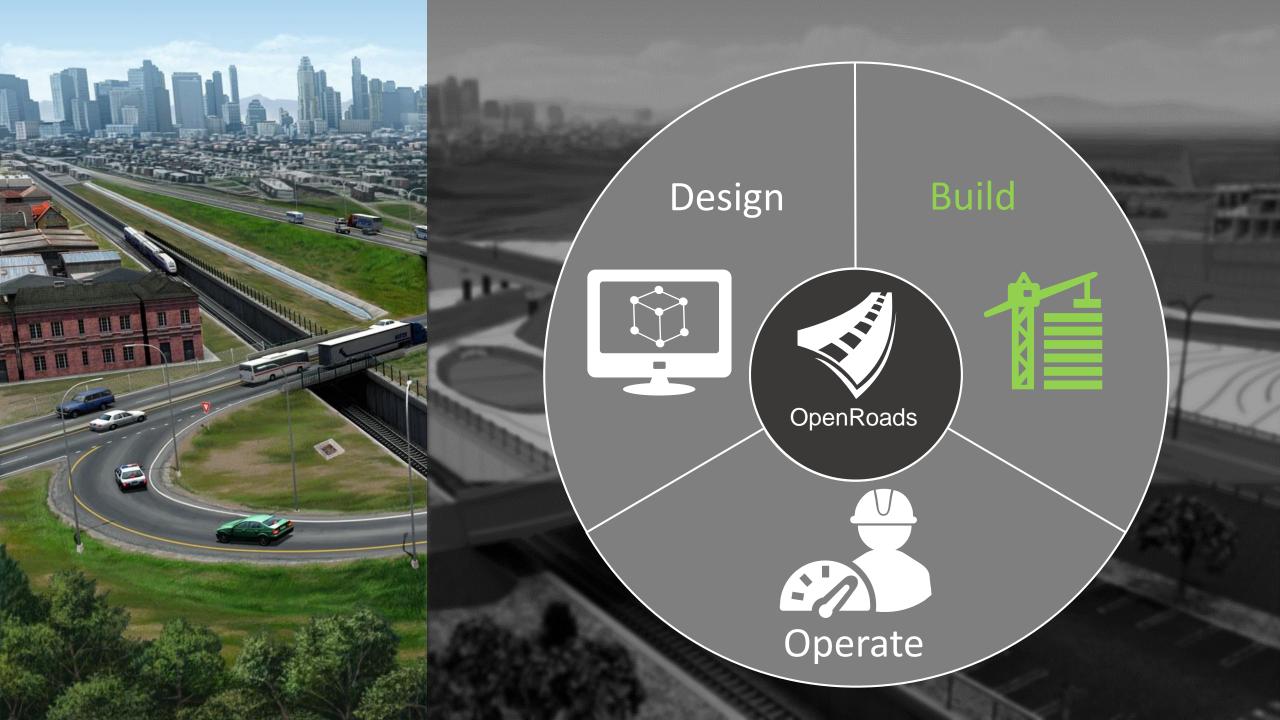


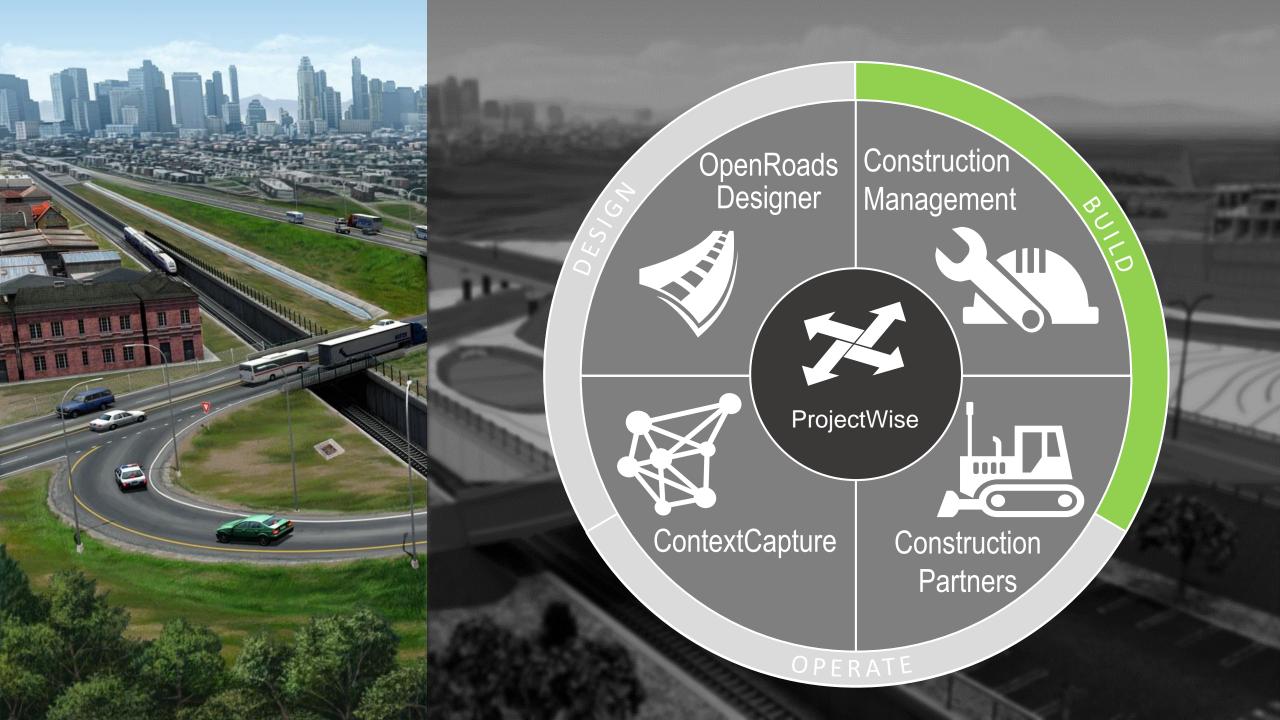


H W Lochner Inc. – United States

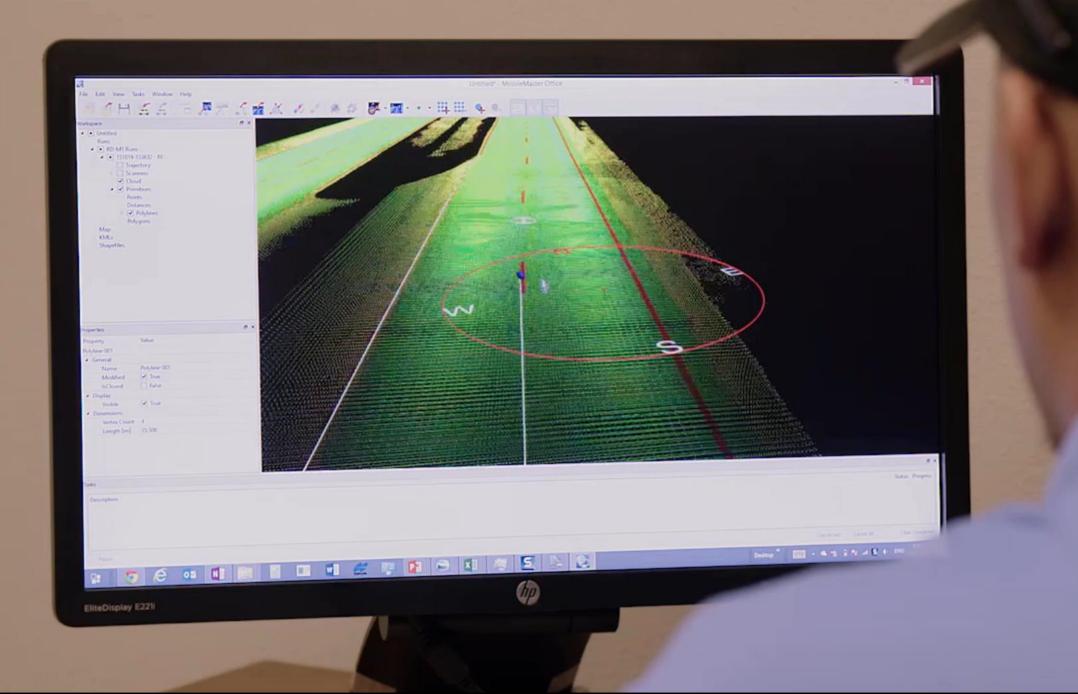
LOCHNER





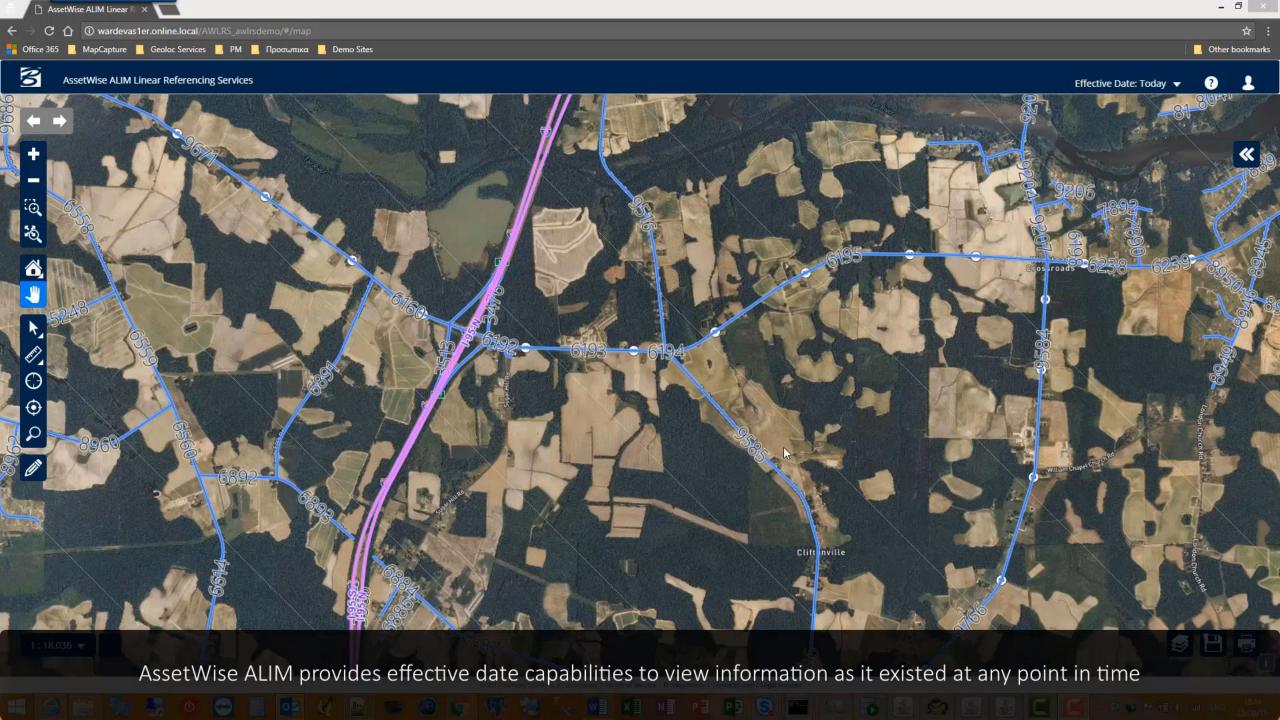






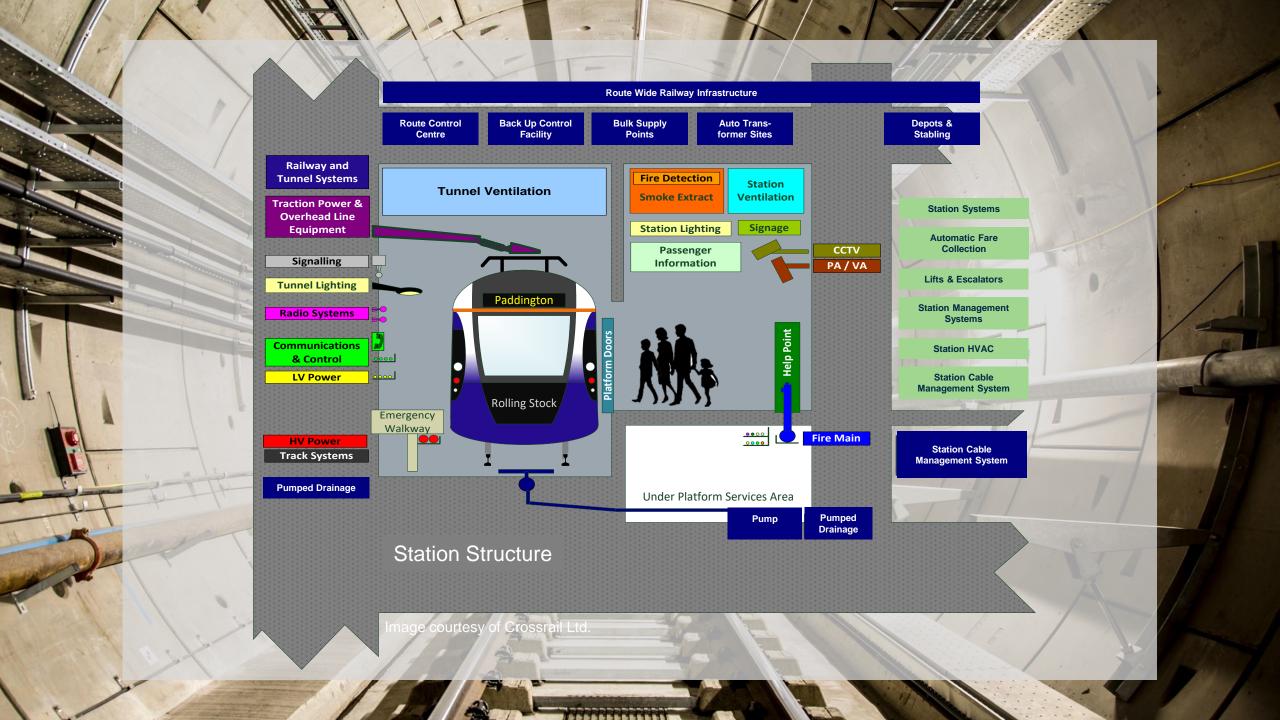


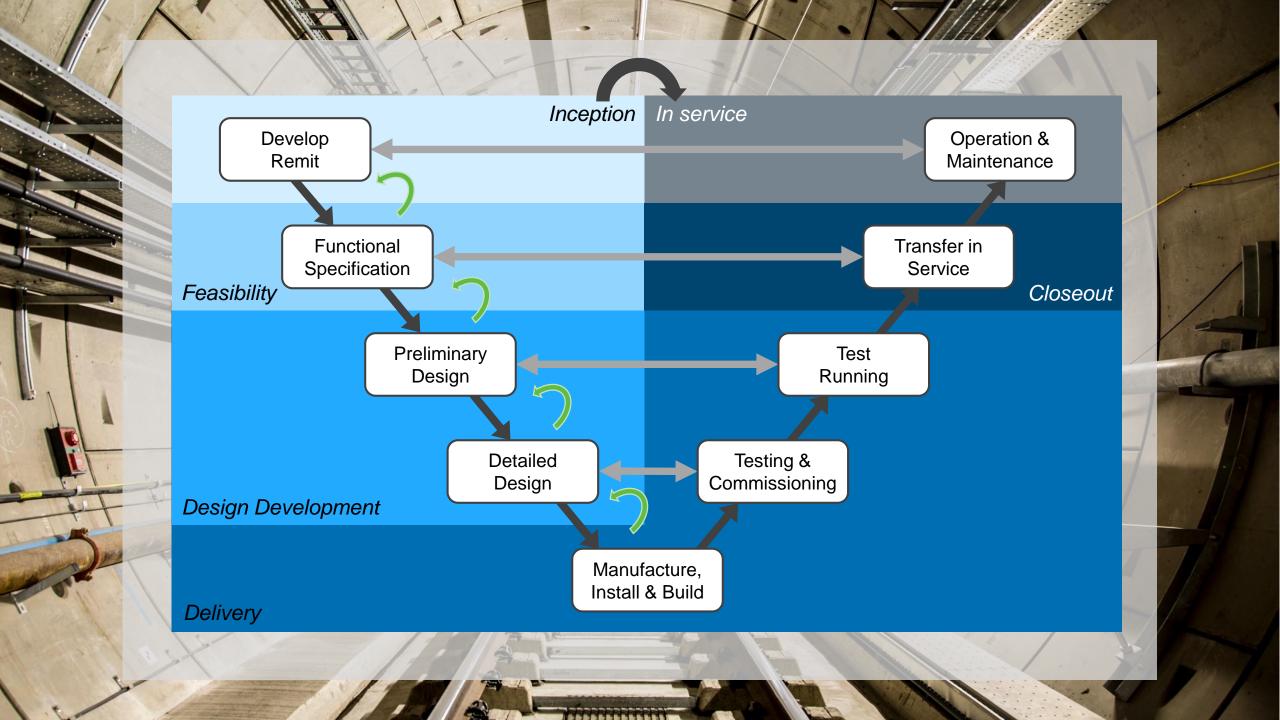


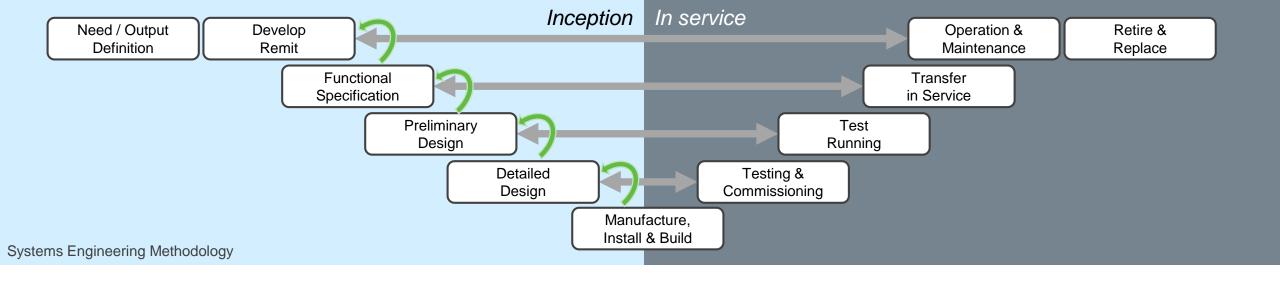






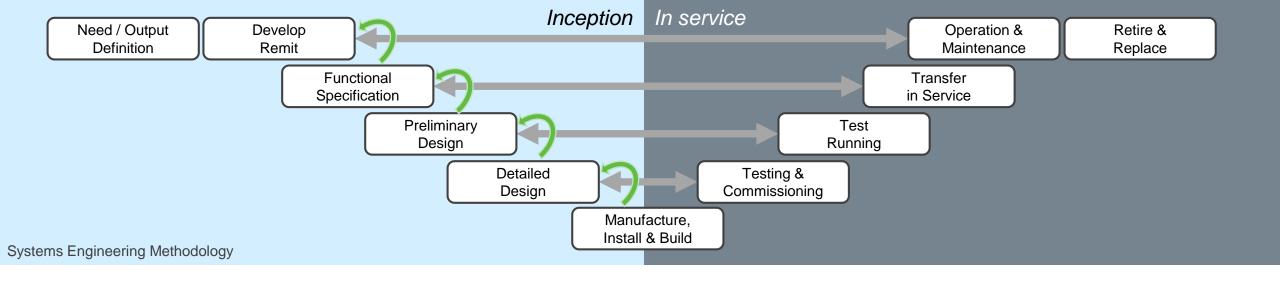




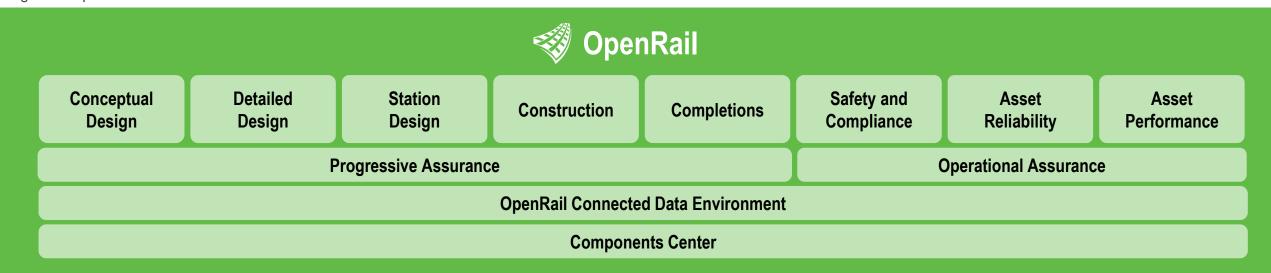


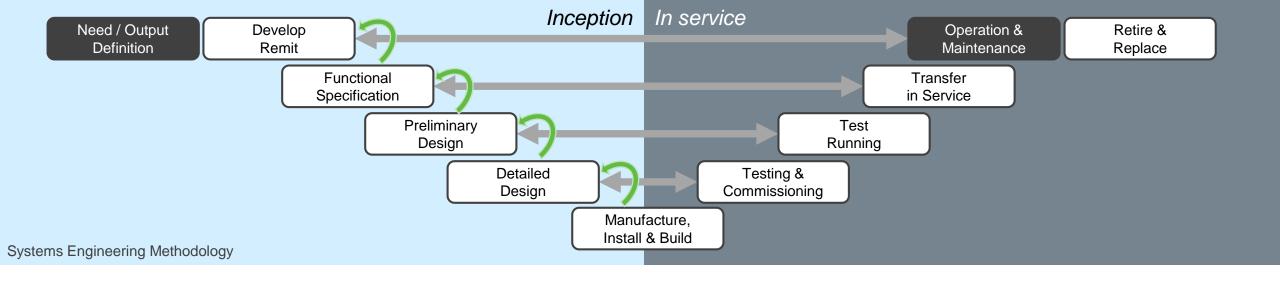
Openstain & Emgioted i Dgatal Ethodologyent





Connects stakeholders, disciplines, data and applications

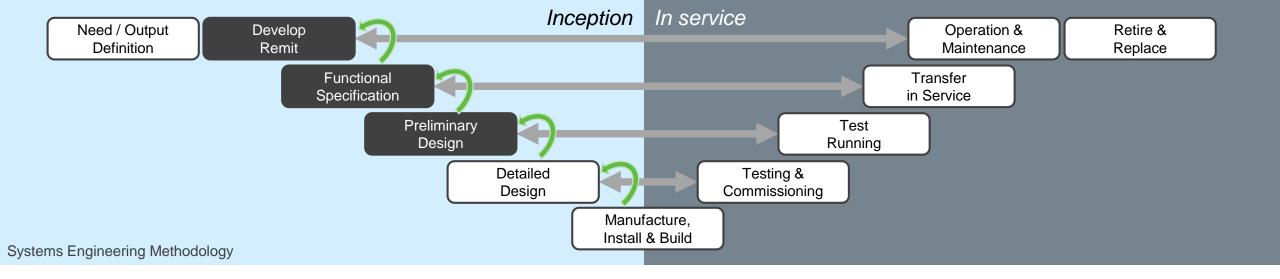




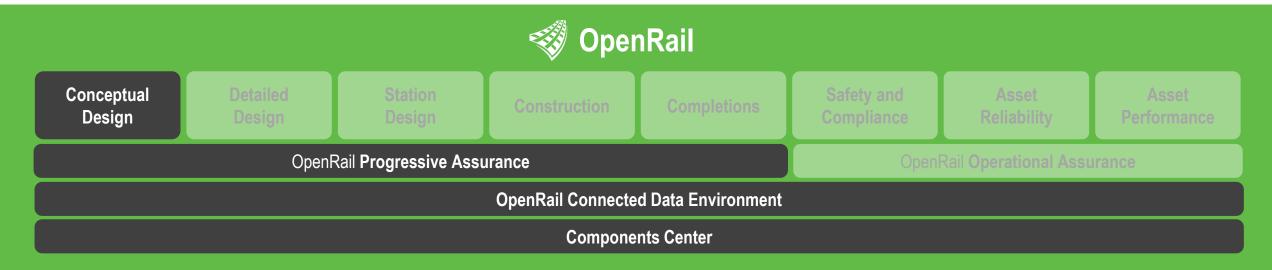




Operational Analytics

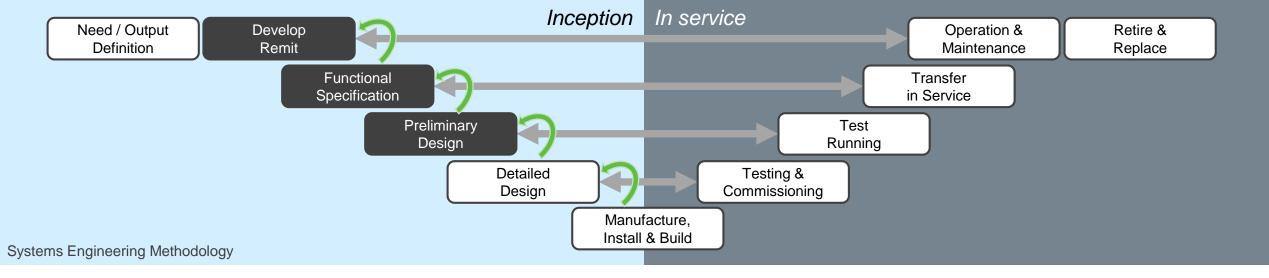


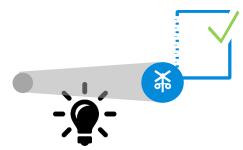




ConceptStation

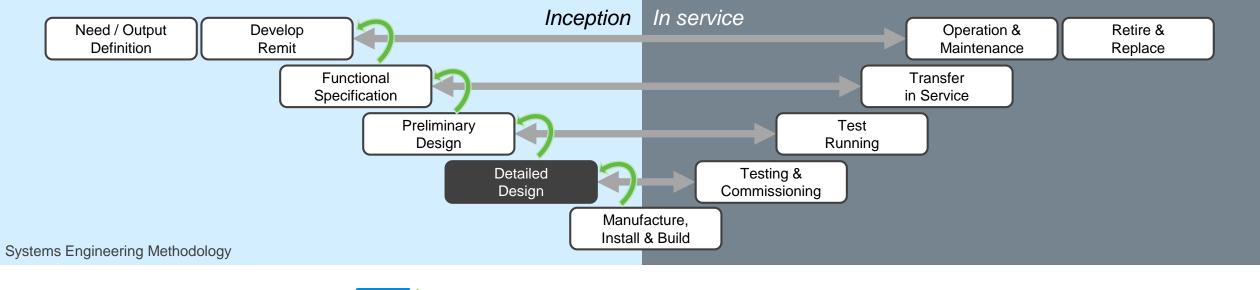


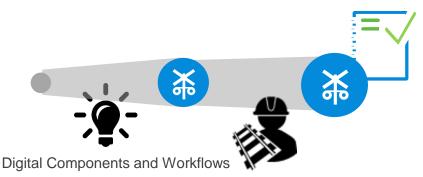




Digital Components and Workflows

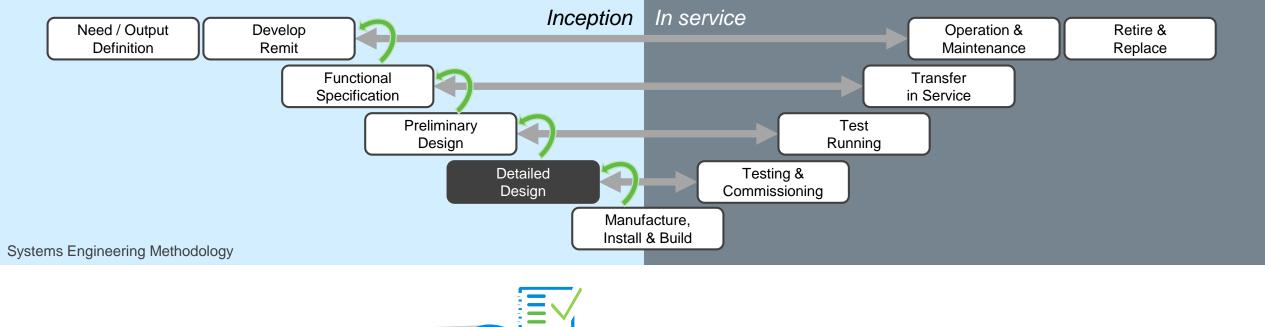


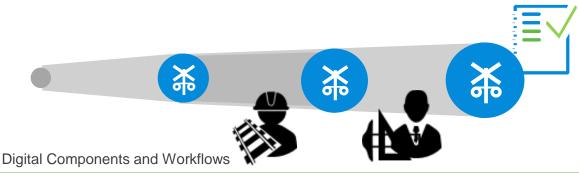


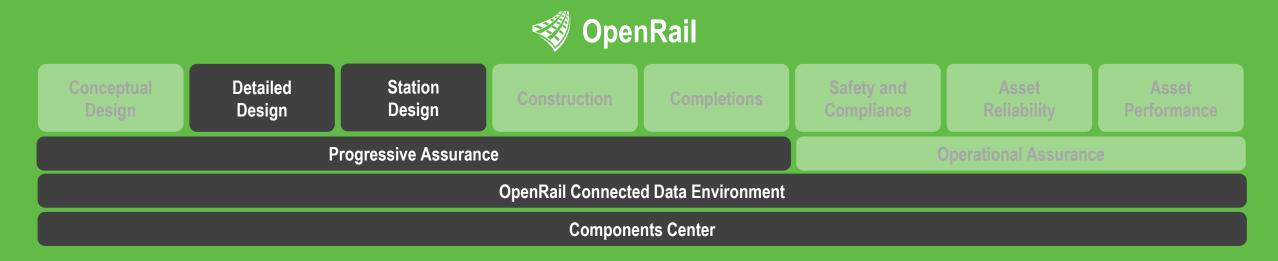




Designer

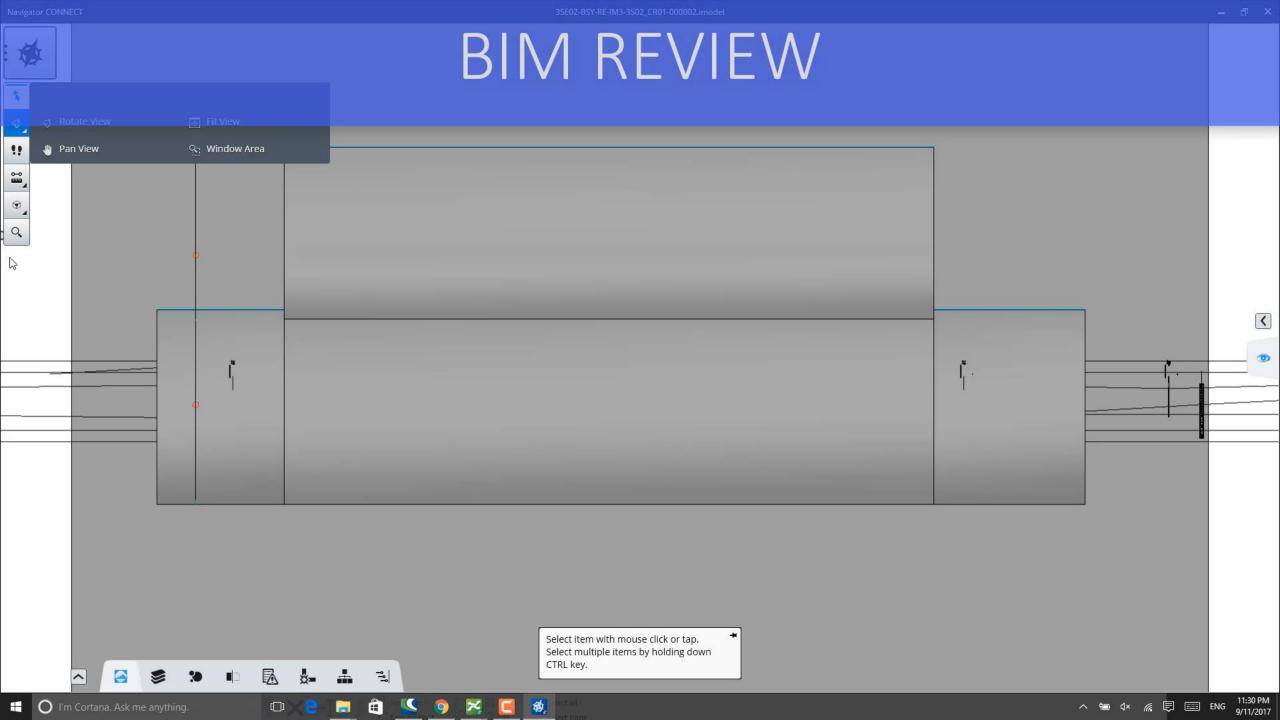


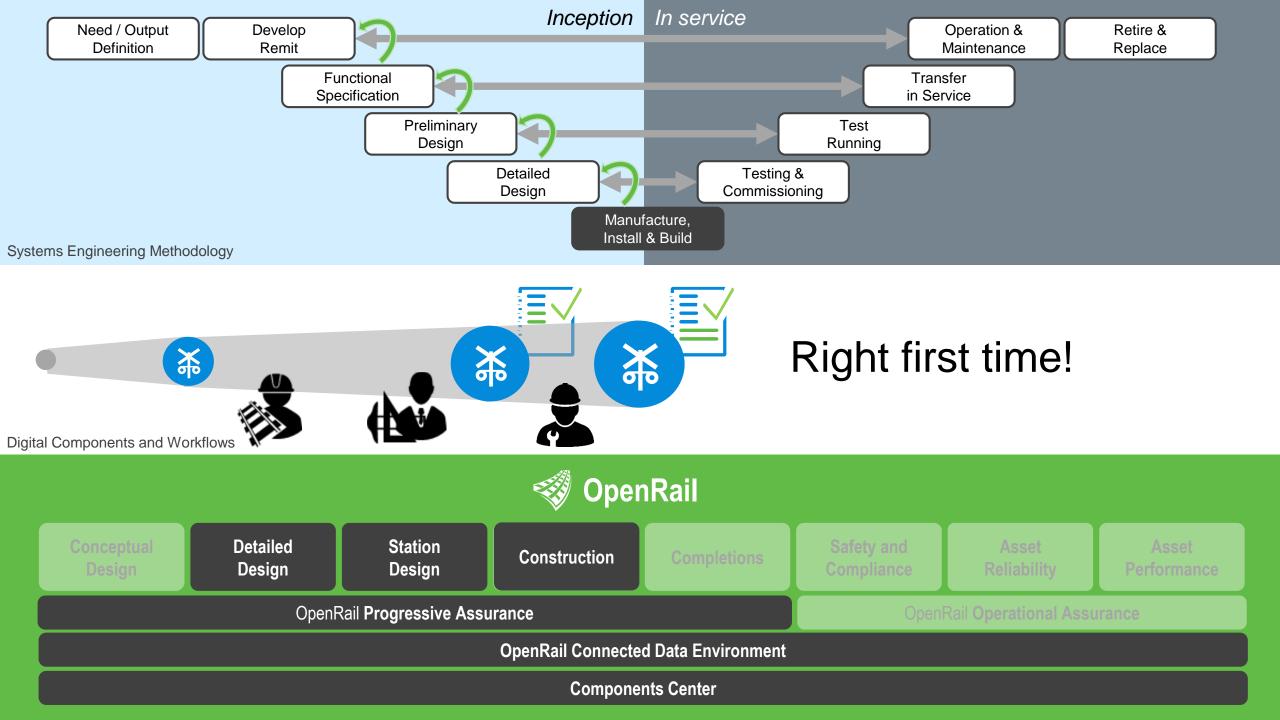


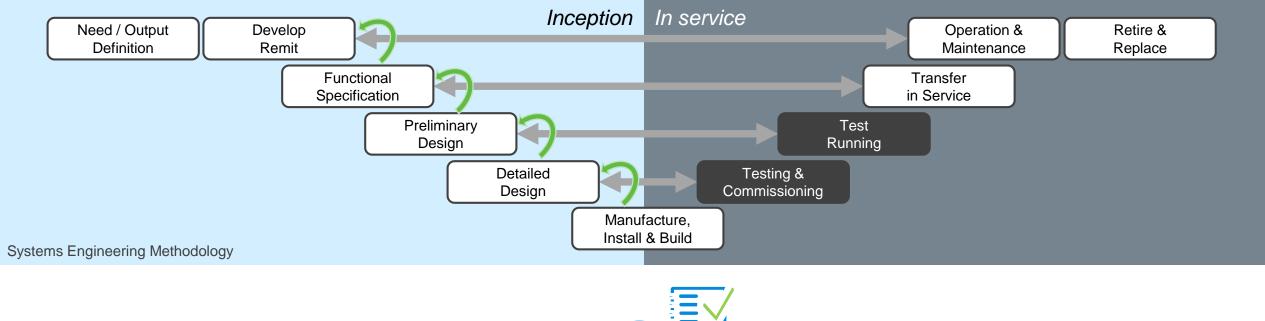


AECOsim Station Designer

BIM Review



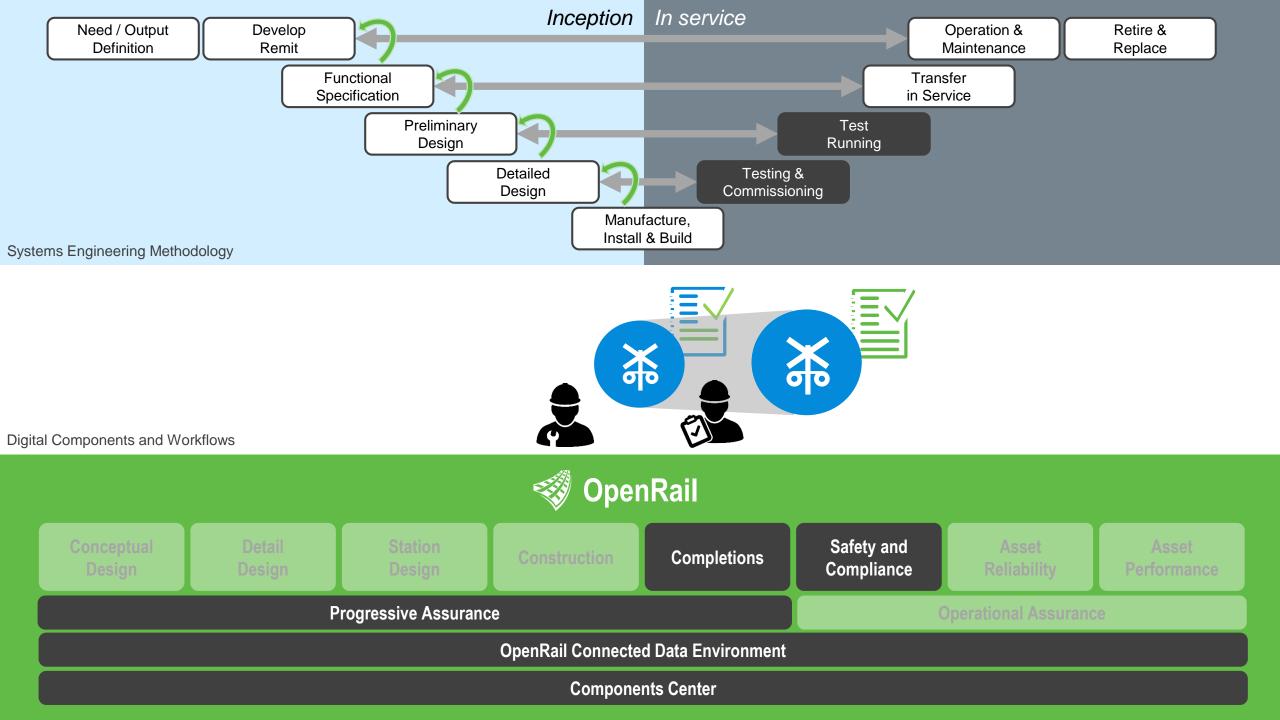


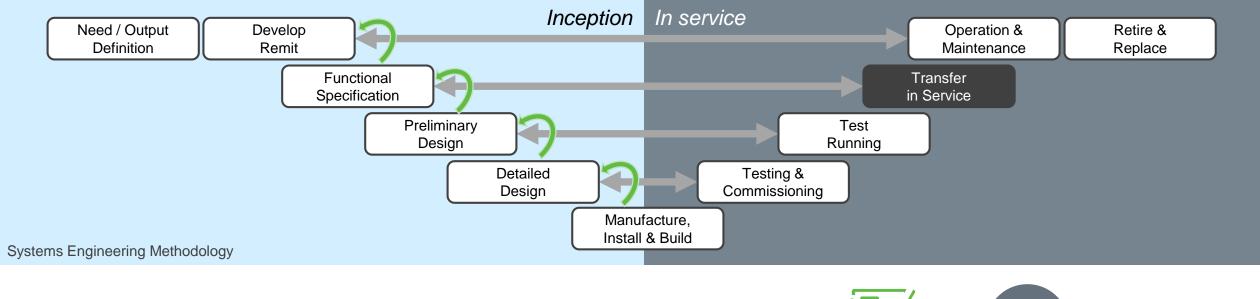




Right first time!

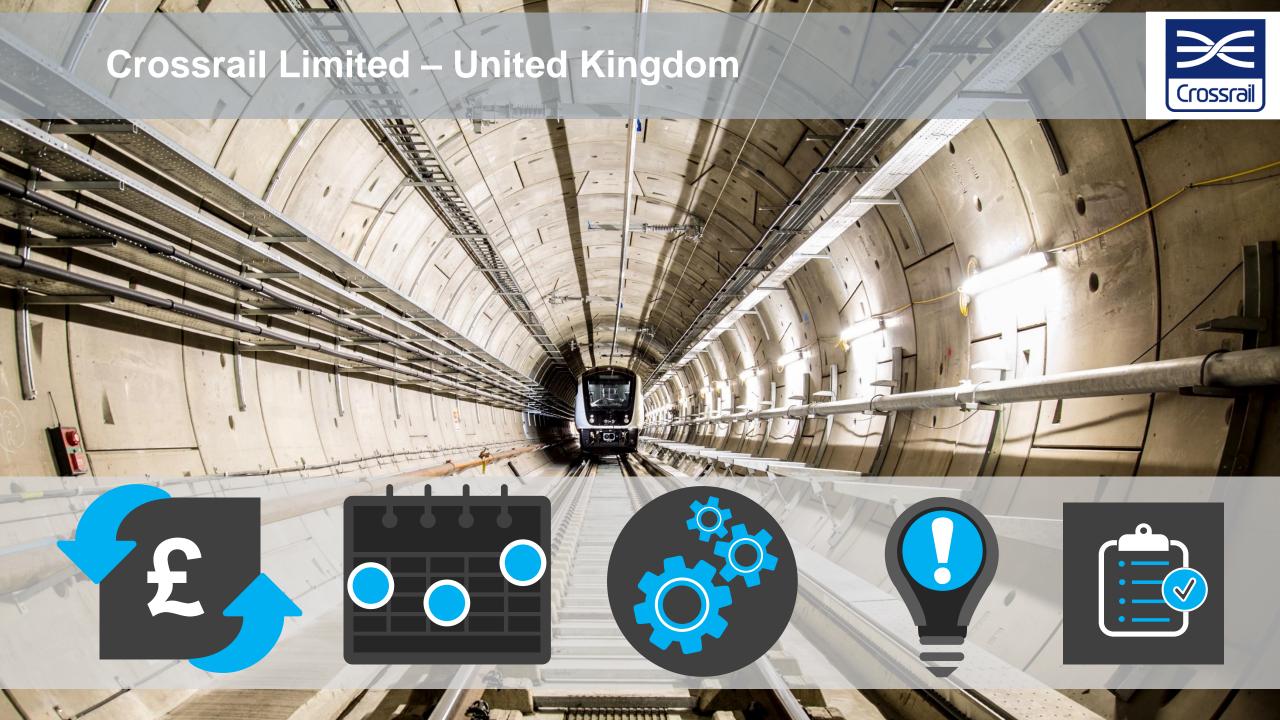




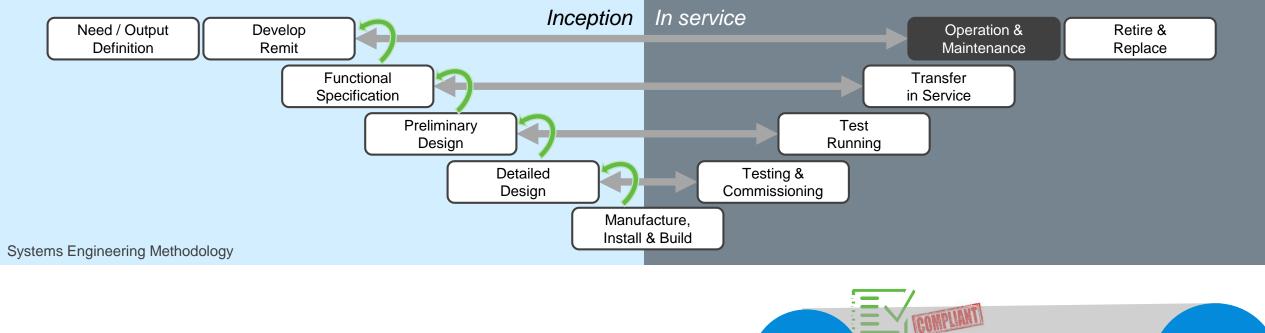








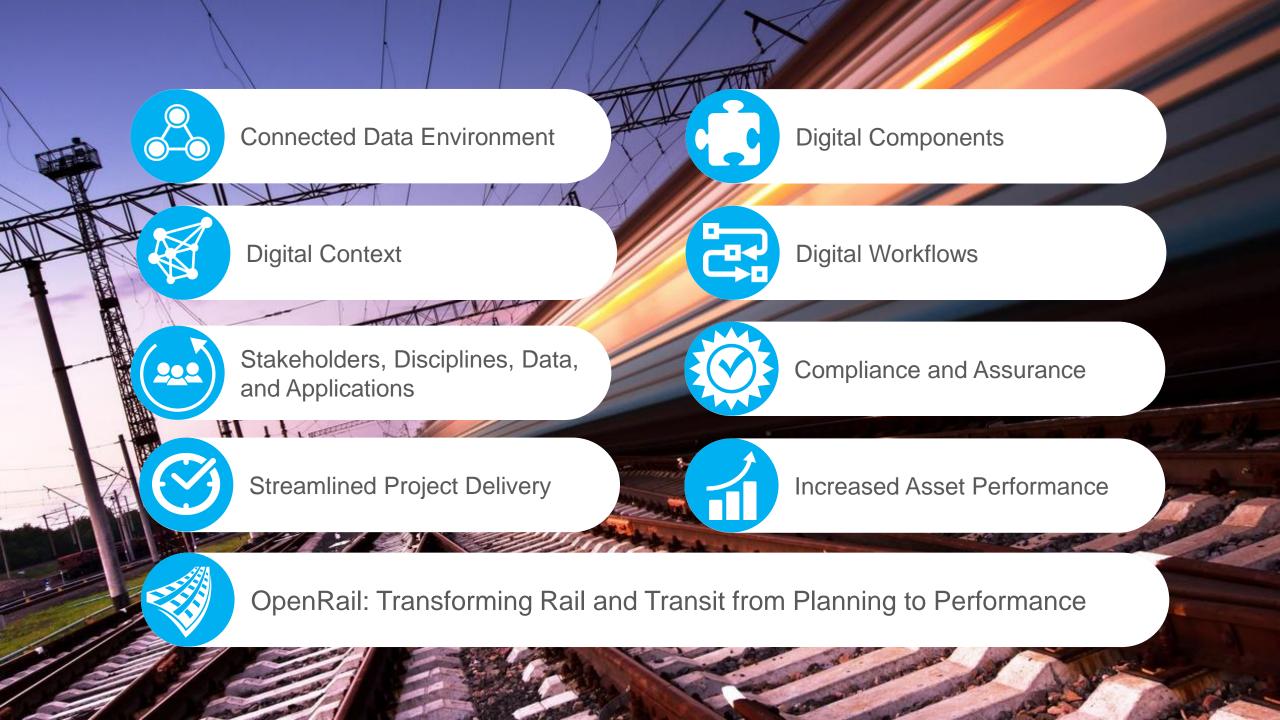
Crossrail Limited - United Kingdom Crossrail **Physical Railway Digital Railway**







Operational Analytics





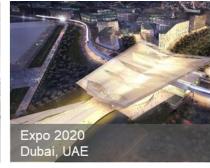


Stockholm, Sweden





Kings Cross Redevelopment

































Deliver Different Outcomes







Thank you! Steve.cockerell@Bentley.com

