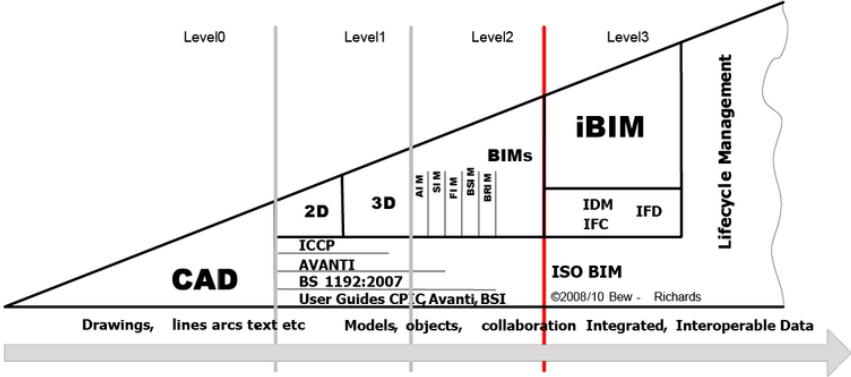
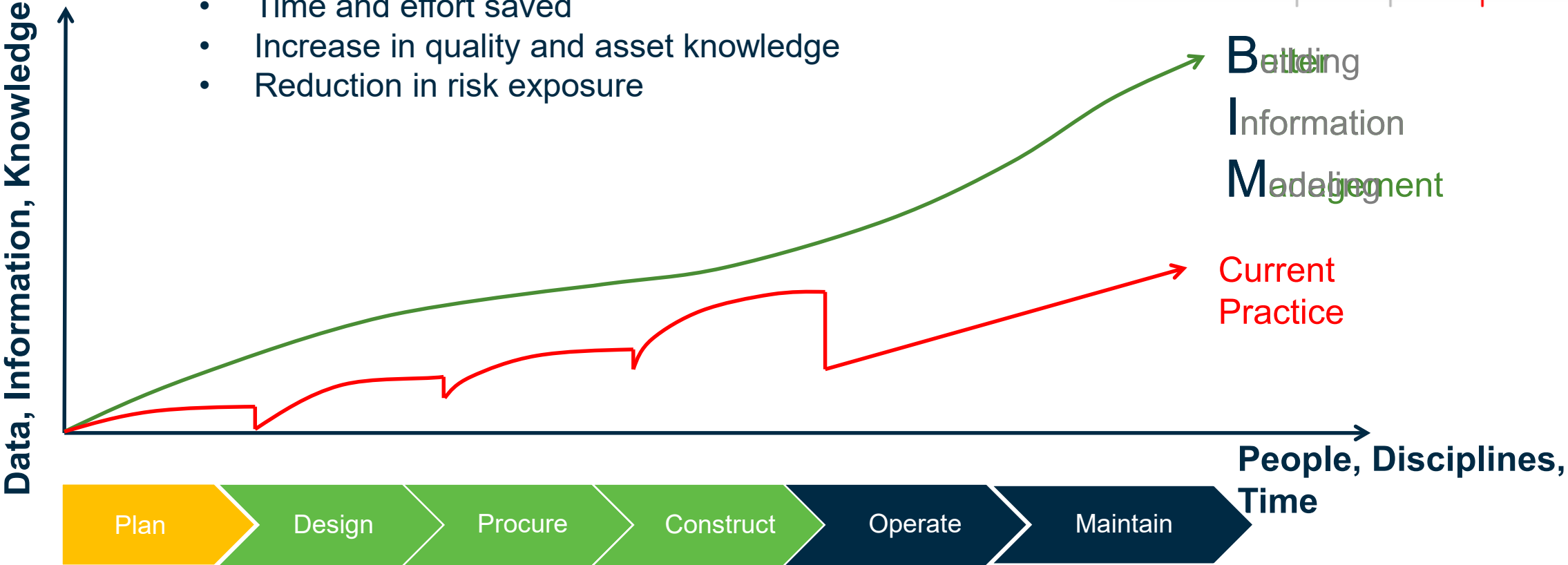


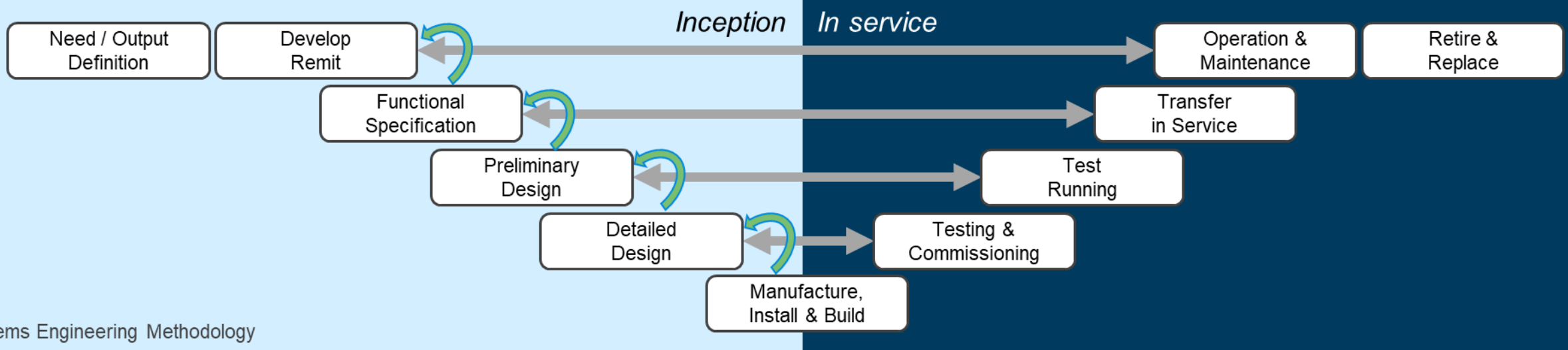
# Adding Value to Rail Design with OpenRail

# Going Digital....



- Time and effort saved
- Increase in quality and asset knowledge
- Reduction in risk exposure





**OpenRail ConceptStation**  
CONNECT Edition



**OpenRail Designer**  
CONNECT Edition

Digital Components and Workflows



**OpenRail**

OpenRail  
ConceptStation

OpenRail  
Designer

OpenBuildings  
Station Designer

PLAXIS

SYNCHRO

OpenRail  
Operational Analytics

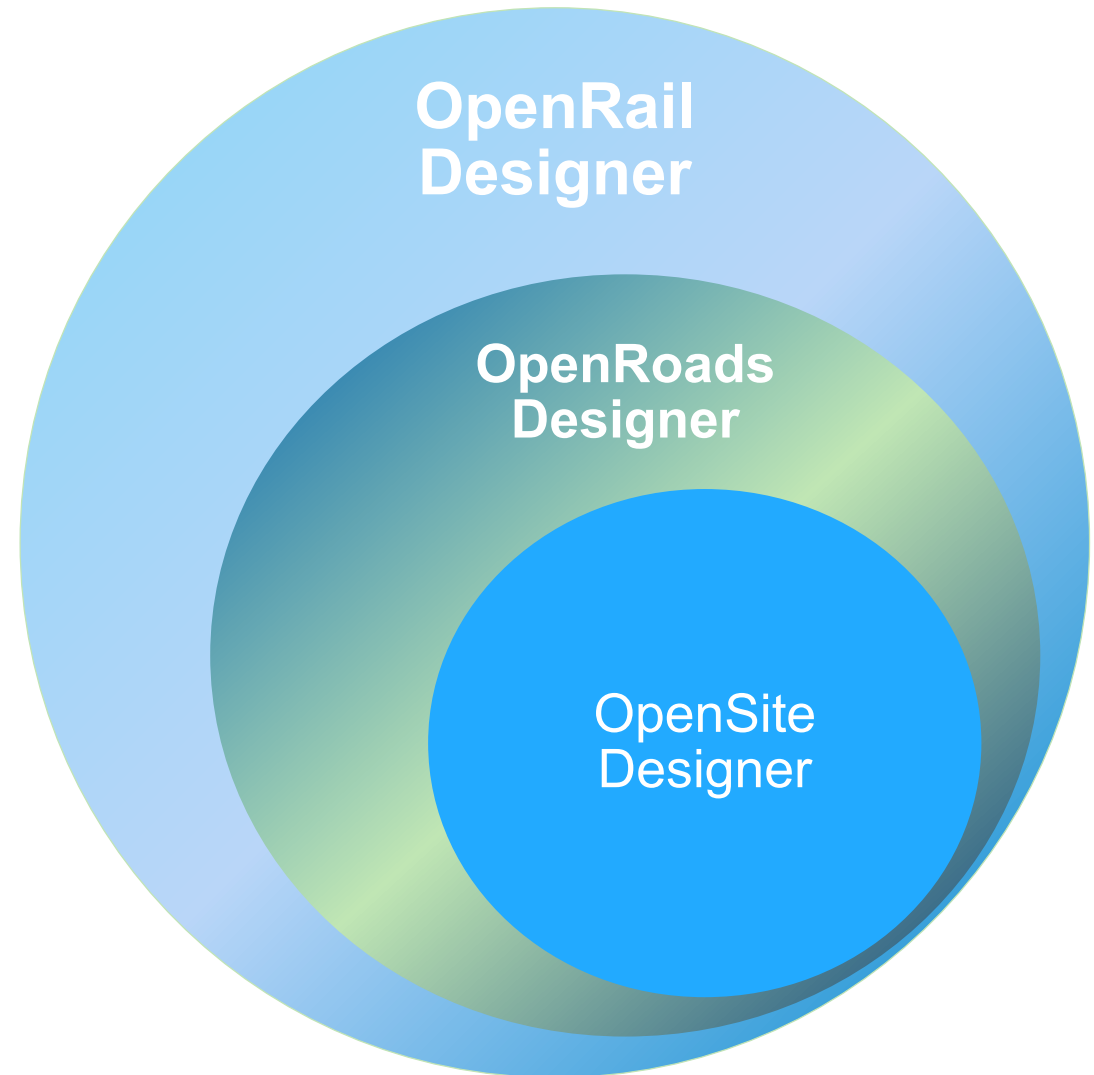
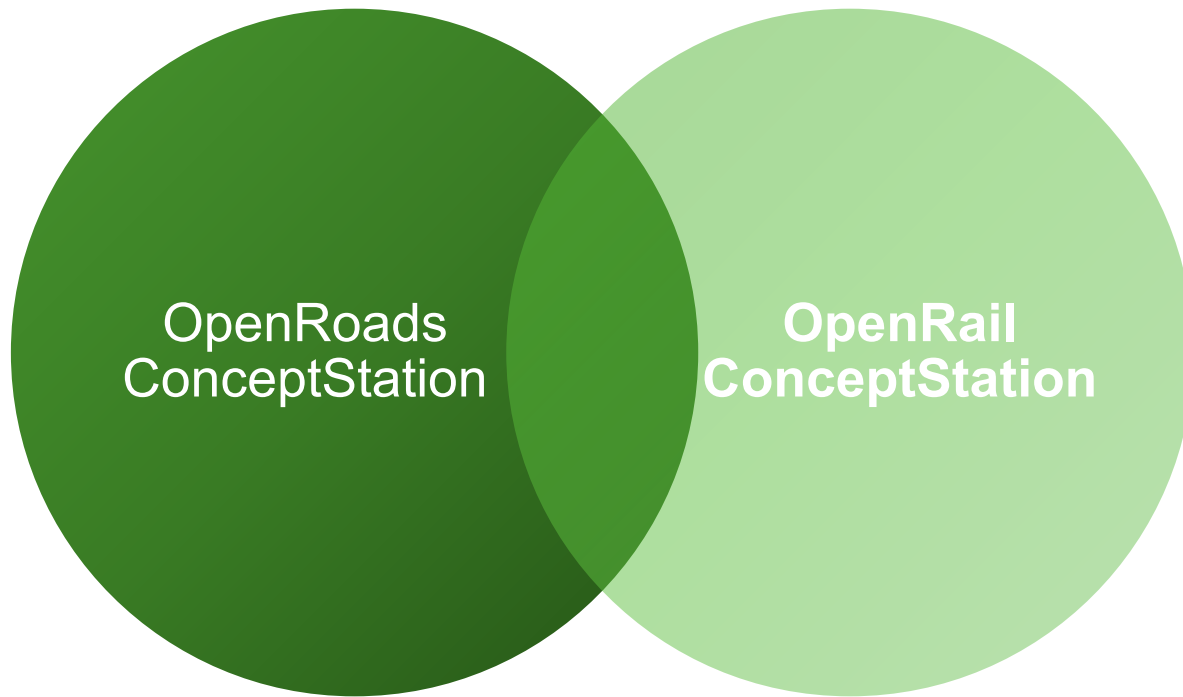
OpenRail  
Asset Reliability

Progressive Assurance

Operational Assurance

OpenRail Connected Data Environment

# ConceptStation vs Designer



# Topics

- Distributed Design
- Detailed Design
- Futures

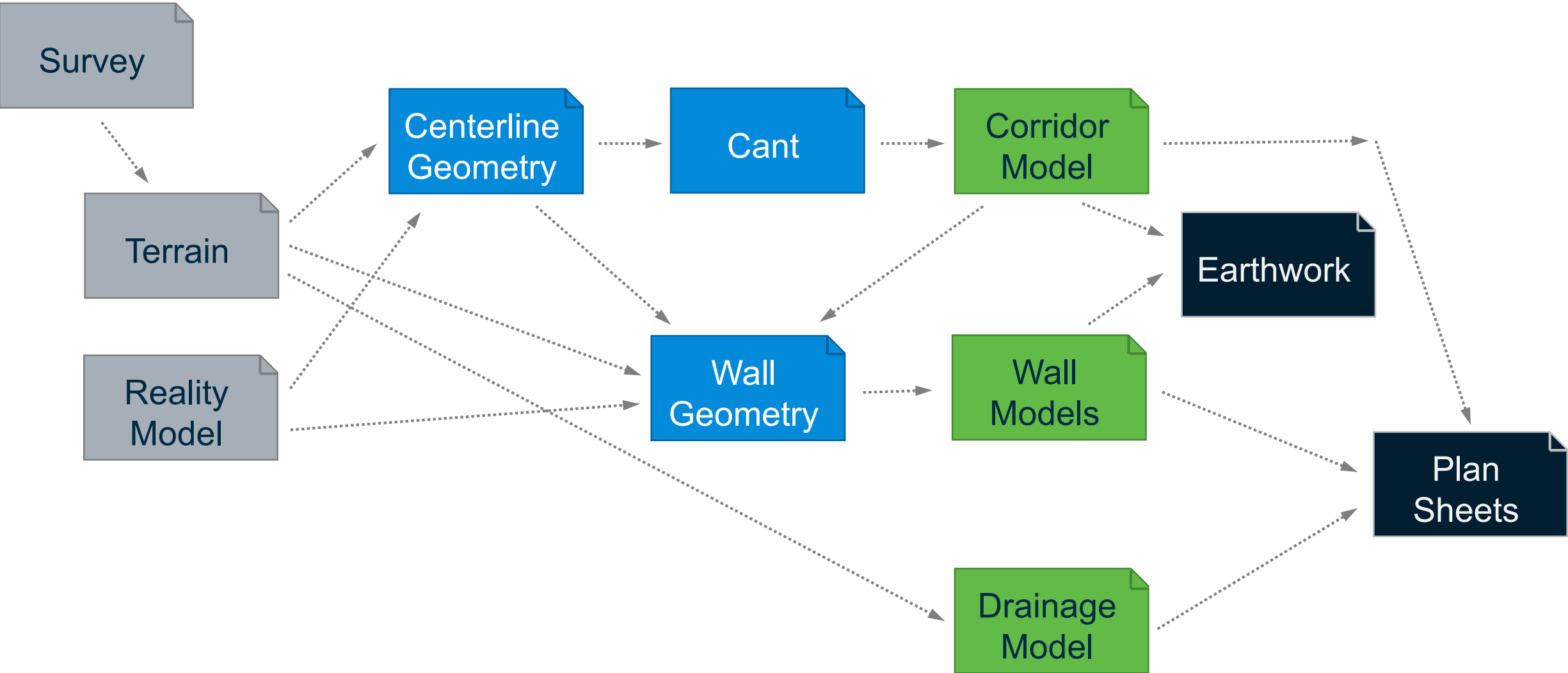
# Topics

- Distributed Design
- Detailed Design
- Futures

# Distributed Design

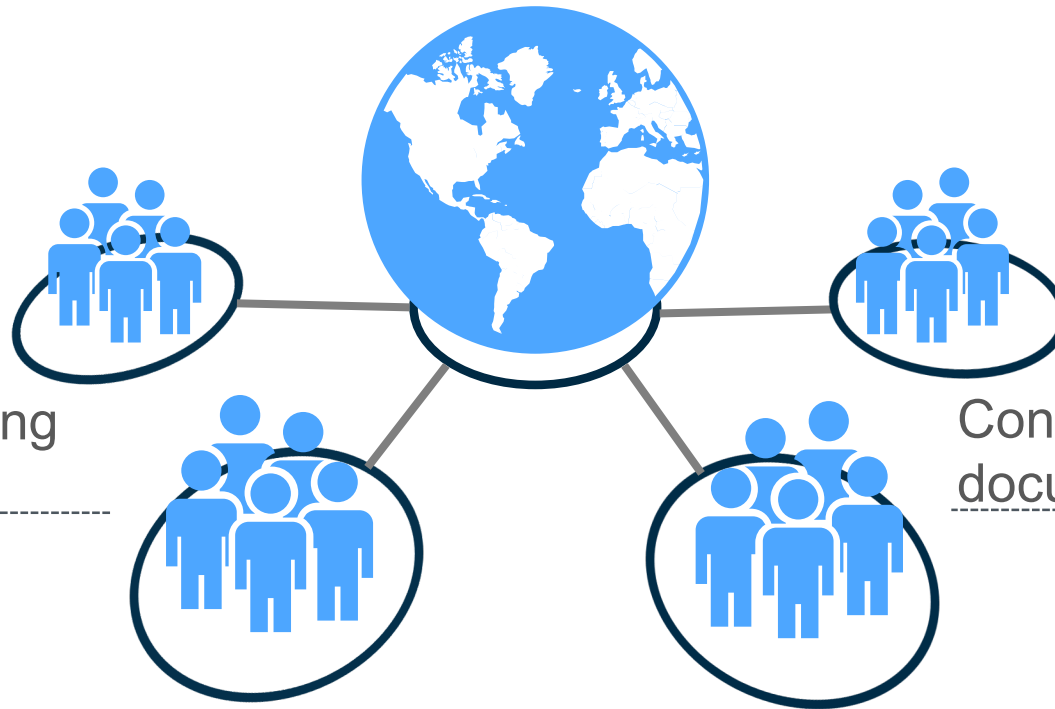


# Federated Files for Flexible Project Structure



# ProjectWise: Collaborate with Multi-discipline Teams

Remove geographic and technology boundaries



Share files securely among  
different organizations

Control group, user and  
document access

Leverage caching servers and  
delta file transfer for immediate  
access to large files

# Topics

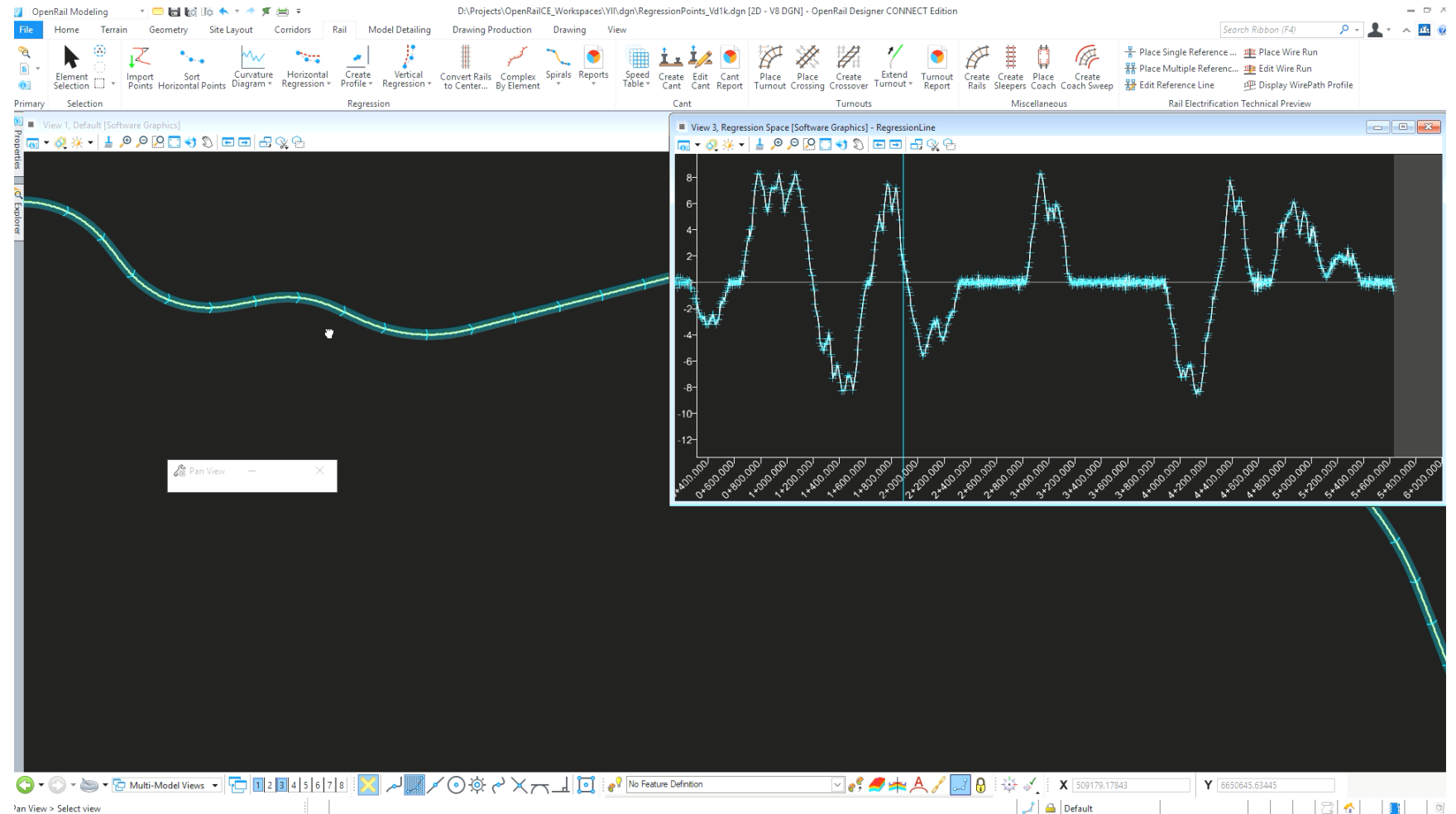
- Distributed Design
- Detailed Design
- Futures

# Regression Analysis

Horizontal  
and Vertical  
regression

Curvature  
Diagram

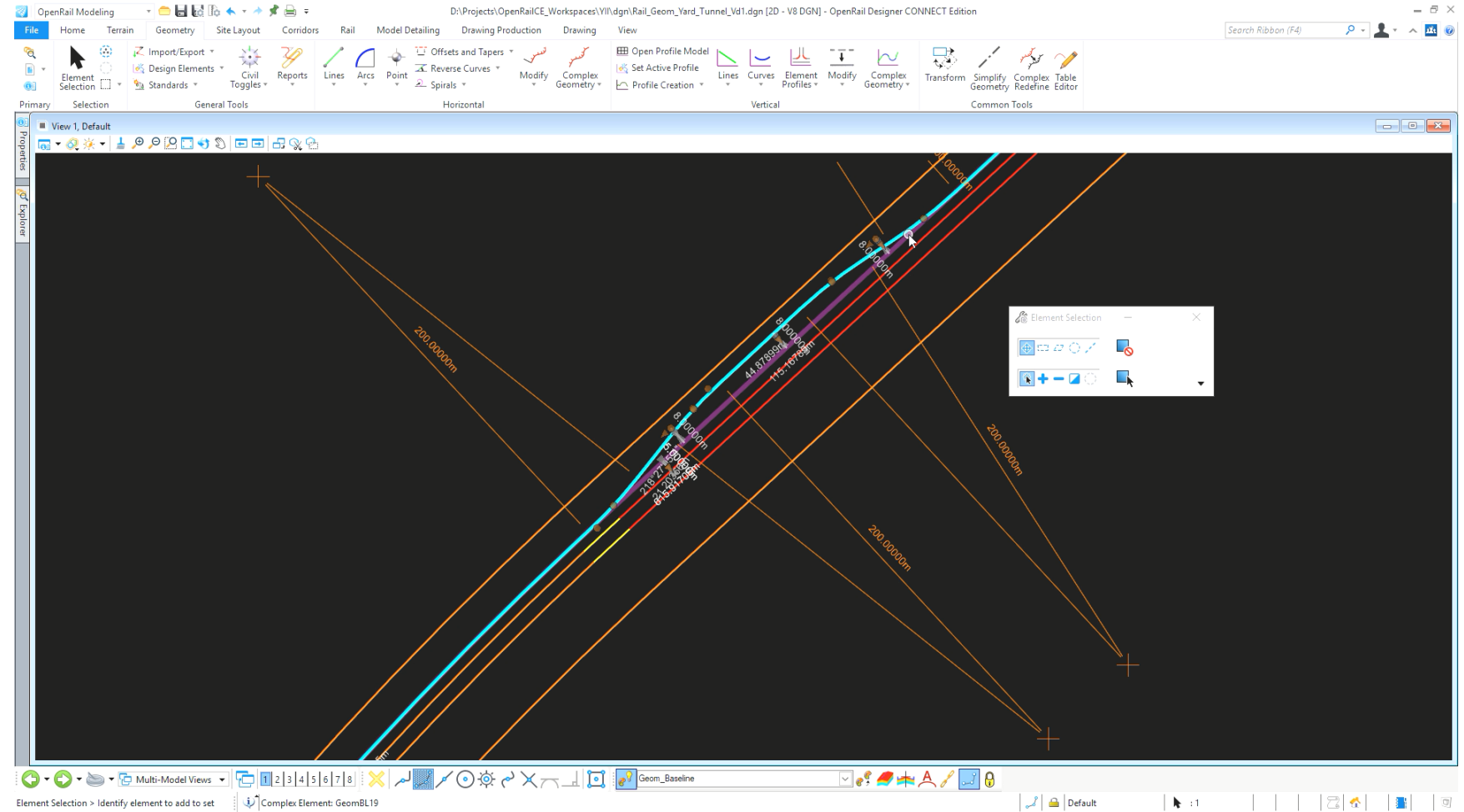
Dynamic  
regression



# Yard Geometry

## Turnouts

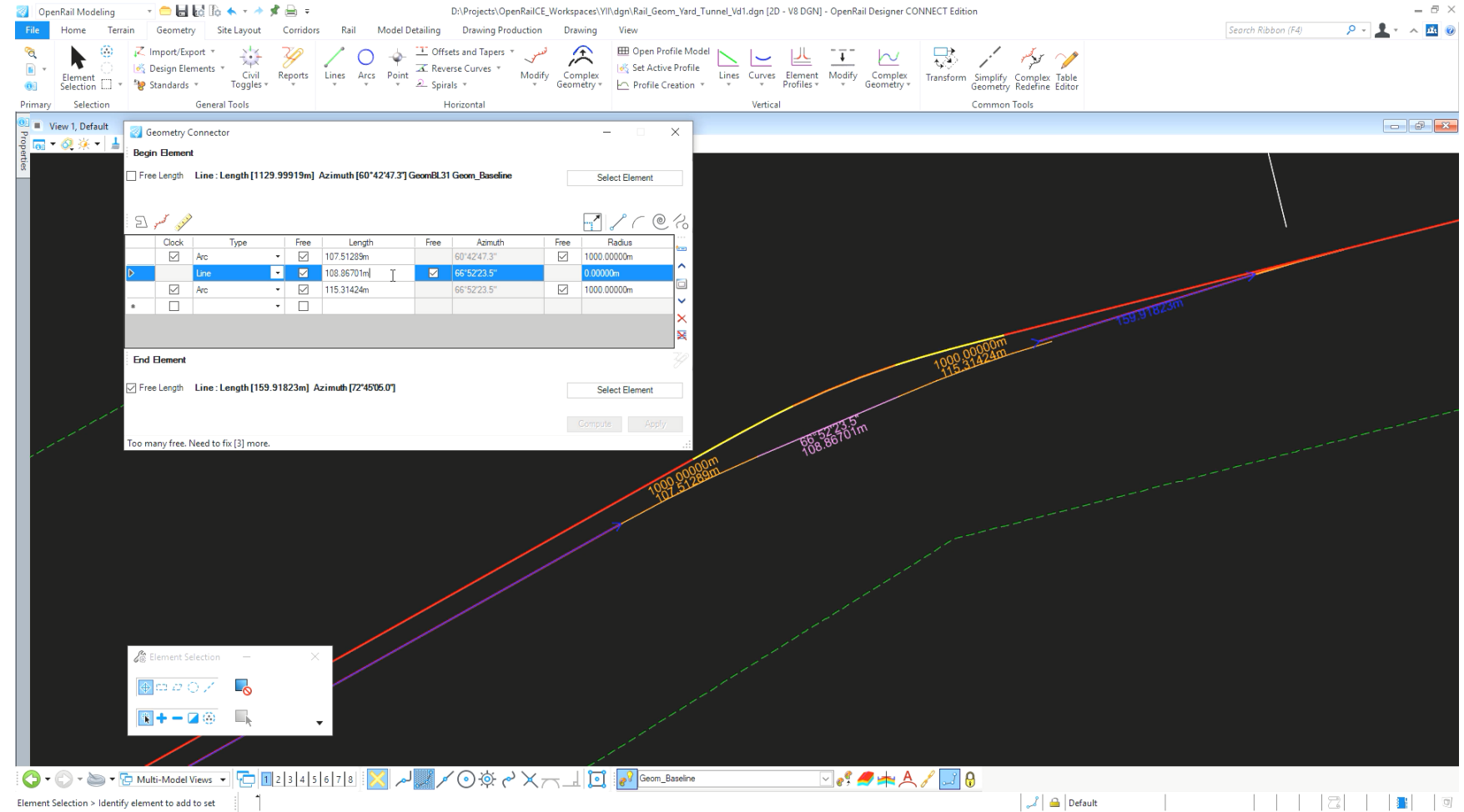
## Geometry Tools



# Tunnel Geometry

## Table Editor

## Geometry Connector



# Precision Input

# Heads up Display

# Circular Curves

# Vertical Curve Parameter



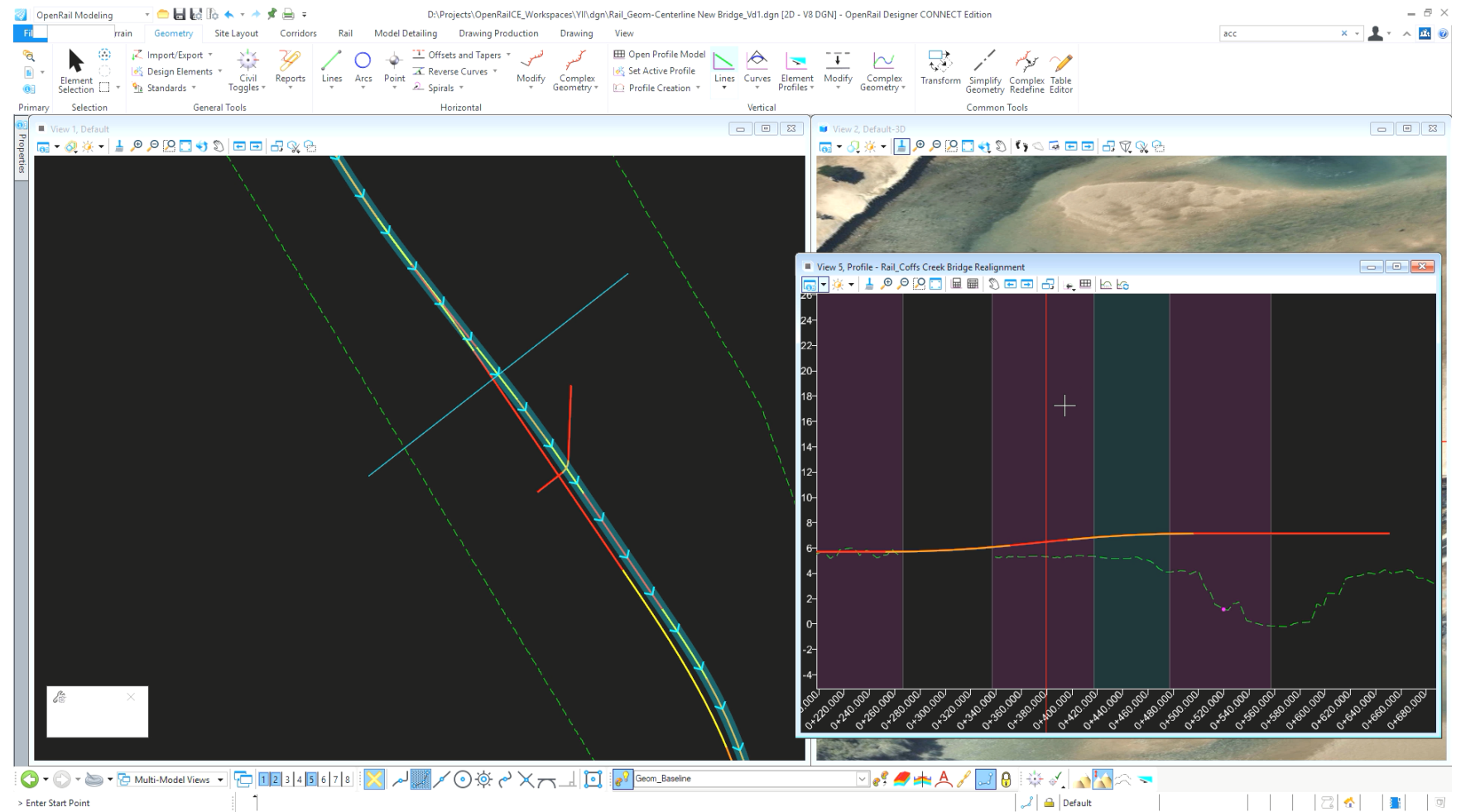
# Bridge Crossing



# Bridge Geometry

Relative to  
another  
element

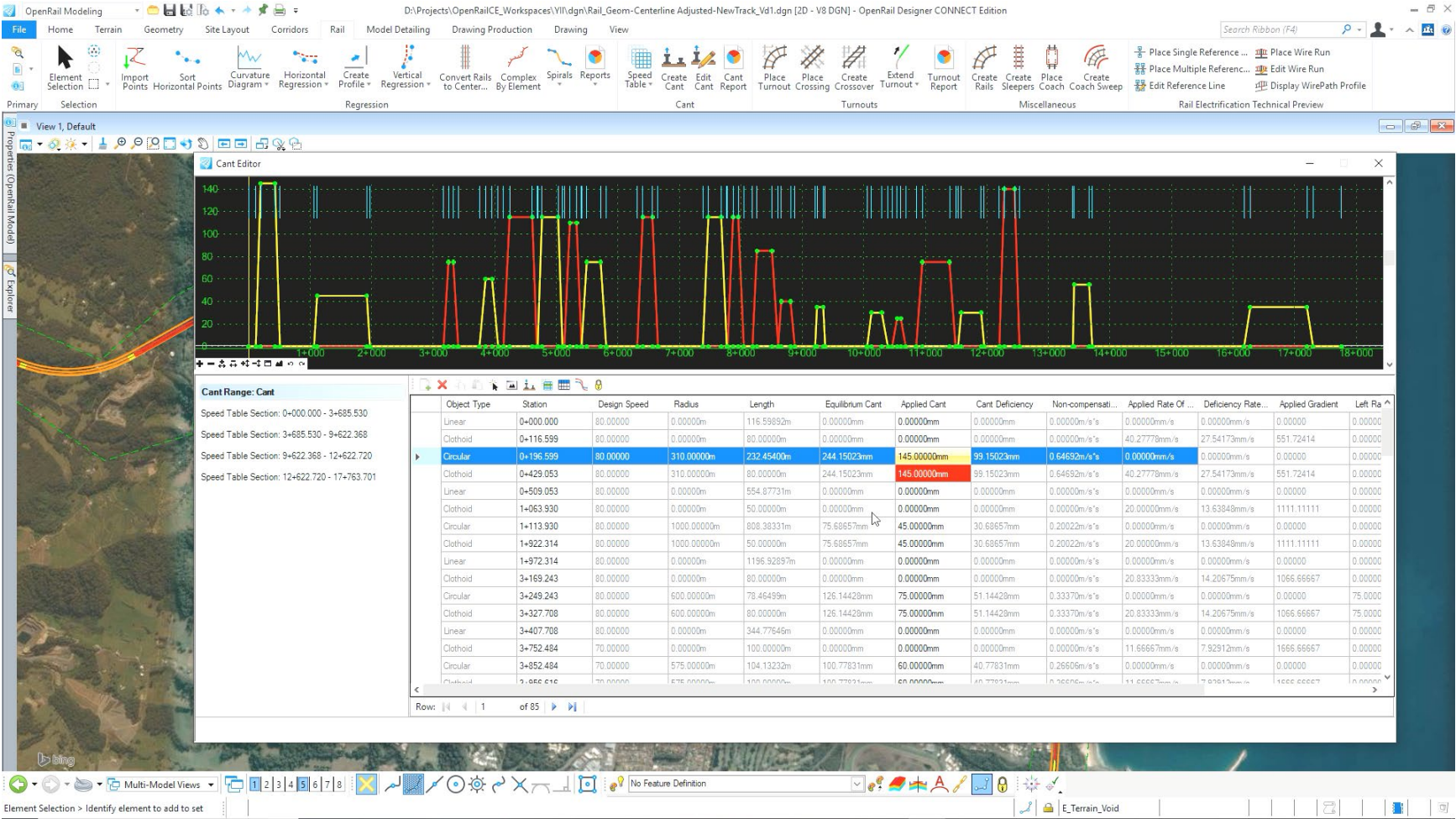
Updates  
when  
parent  
element  
updates



# Speed Tables - Cant

## Speed tables

## Cant (Rail Superelevation)

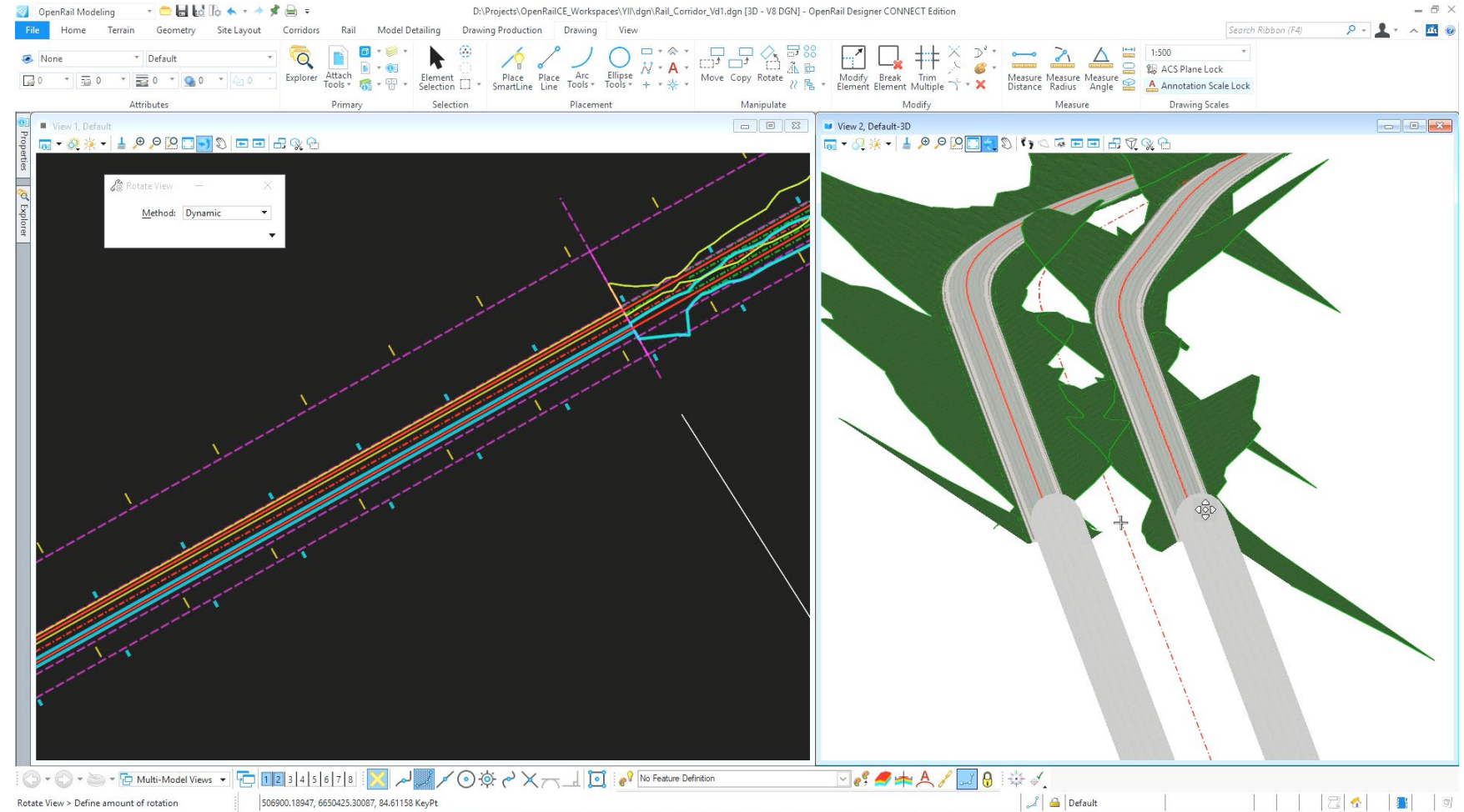


# Tunnels - Corridor Modeling

Corridor  
Area to Model

Template  
What to Model

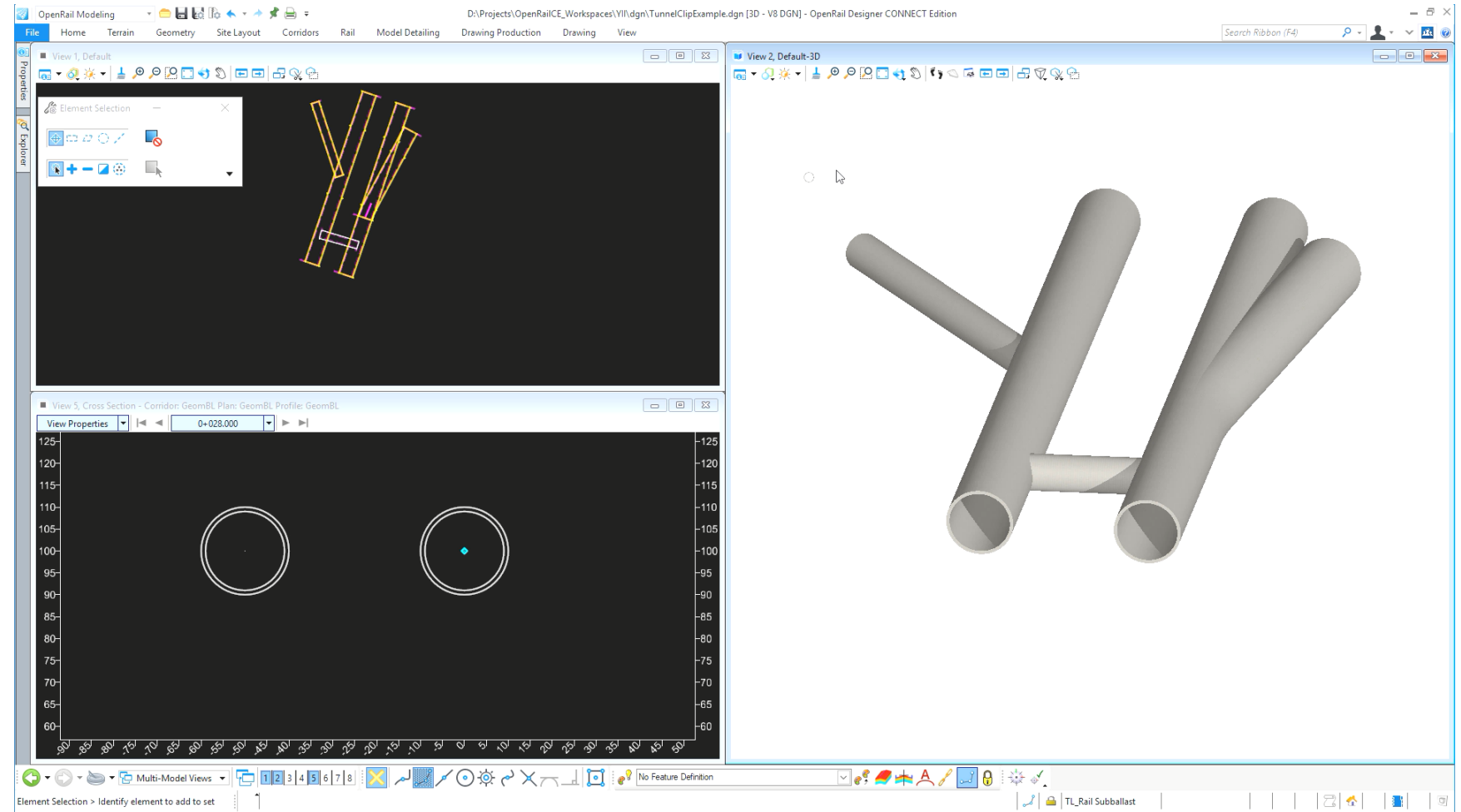
Template  
Drop  
Station Range  
of a Template



# Yard – Tunnel Clipping

Yard  
Modelling

3D Clipping

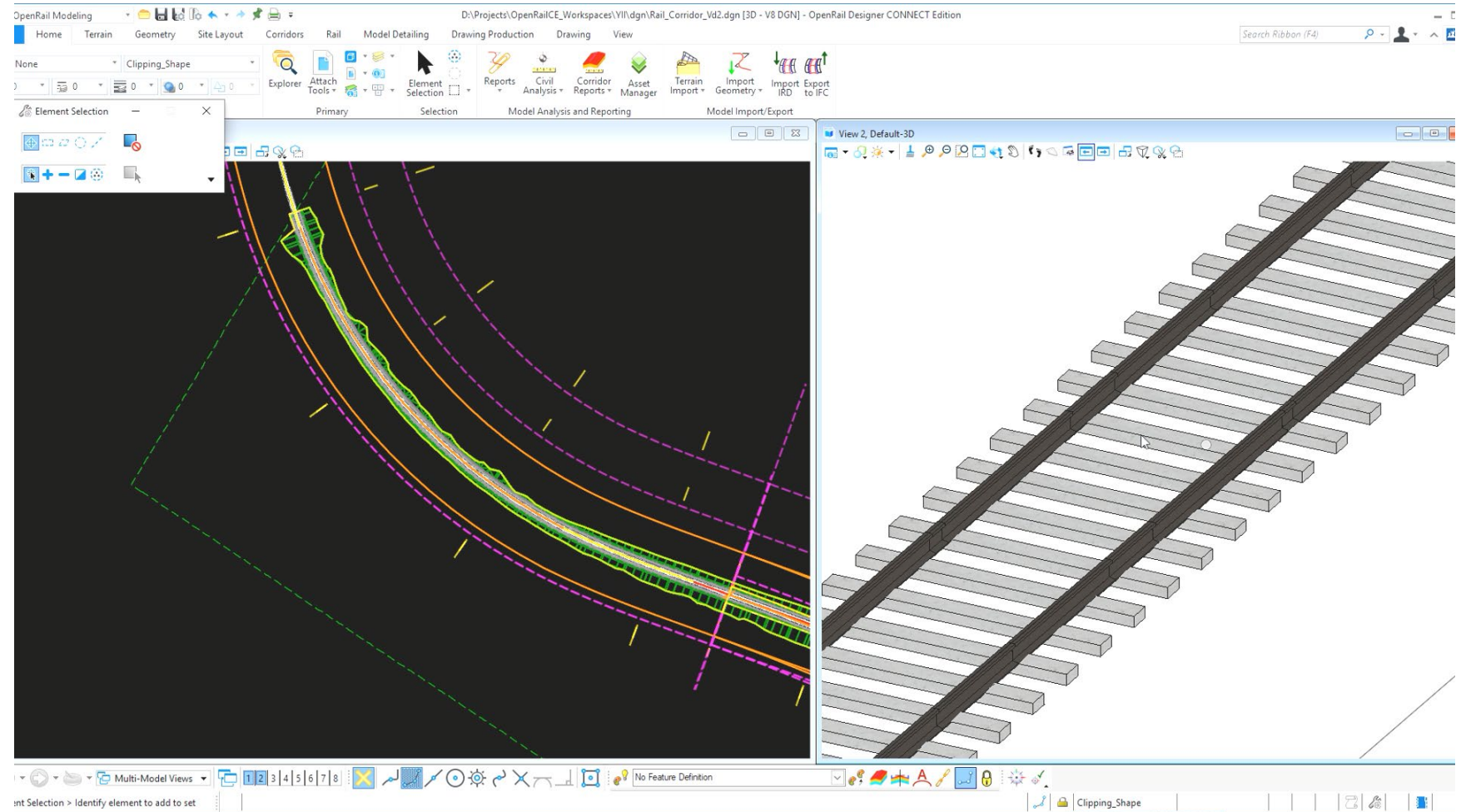


# Rails, Sleepers and Swept Envelope

Place Rails

Place  
Sleepers

Swept  
Envelope

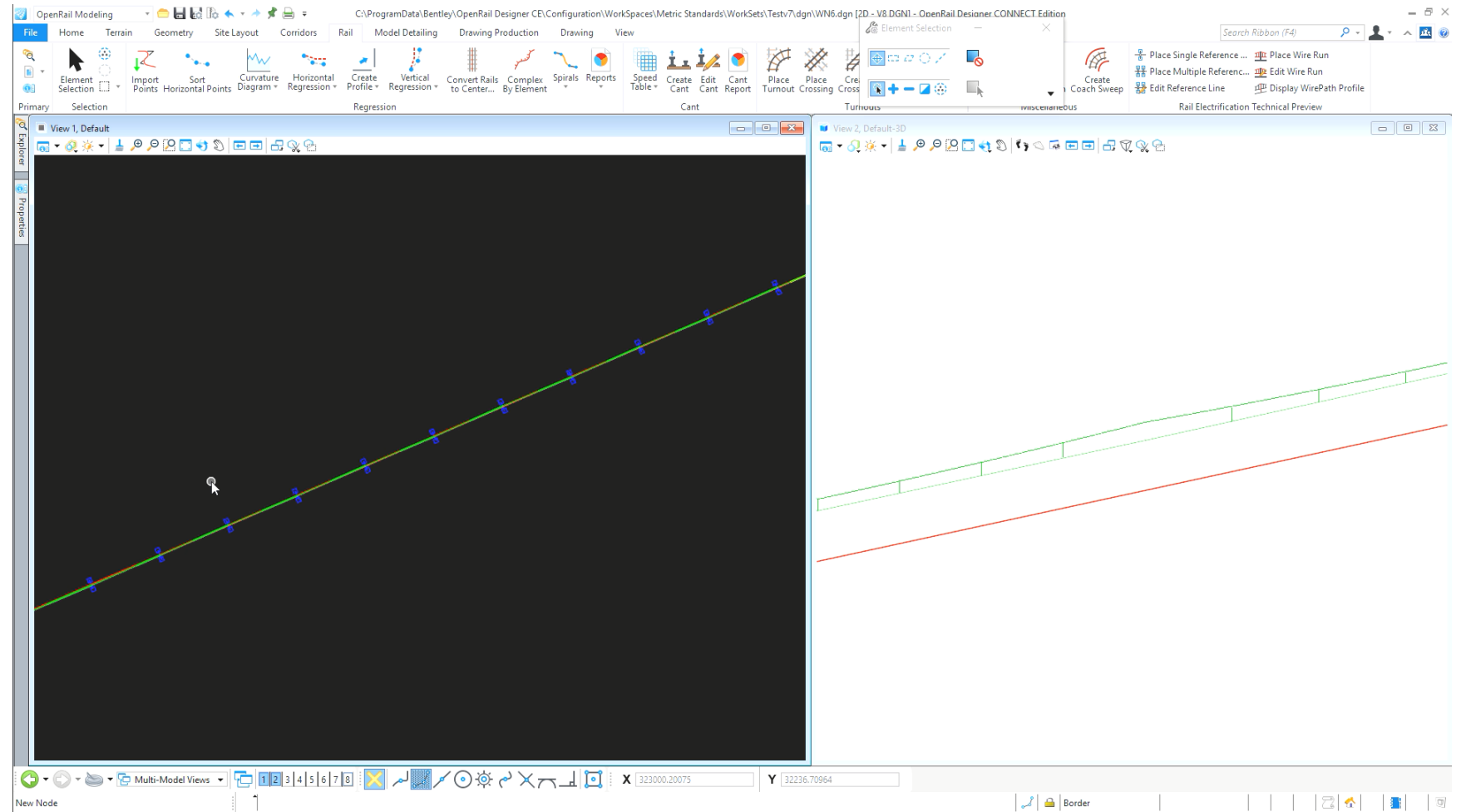


# Overhead Line Design

Standards

Reference  
Lines

Wires

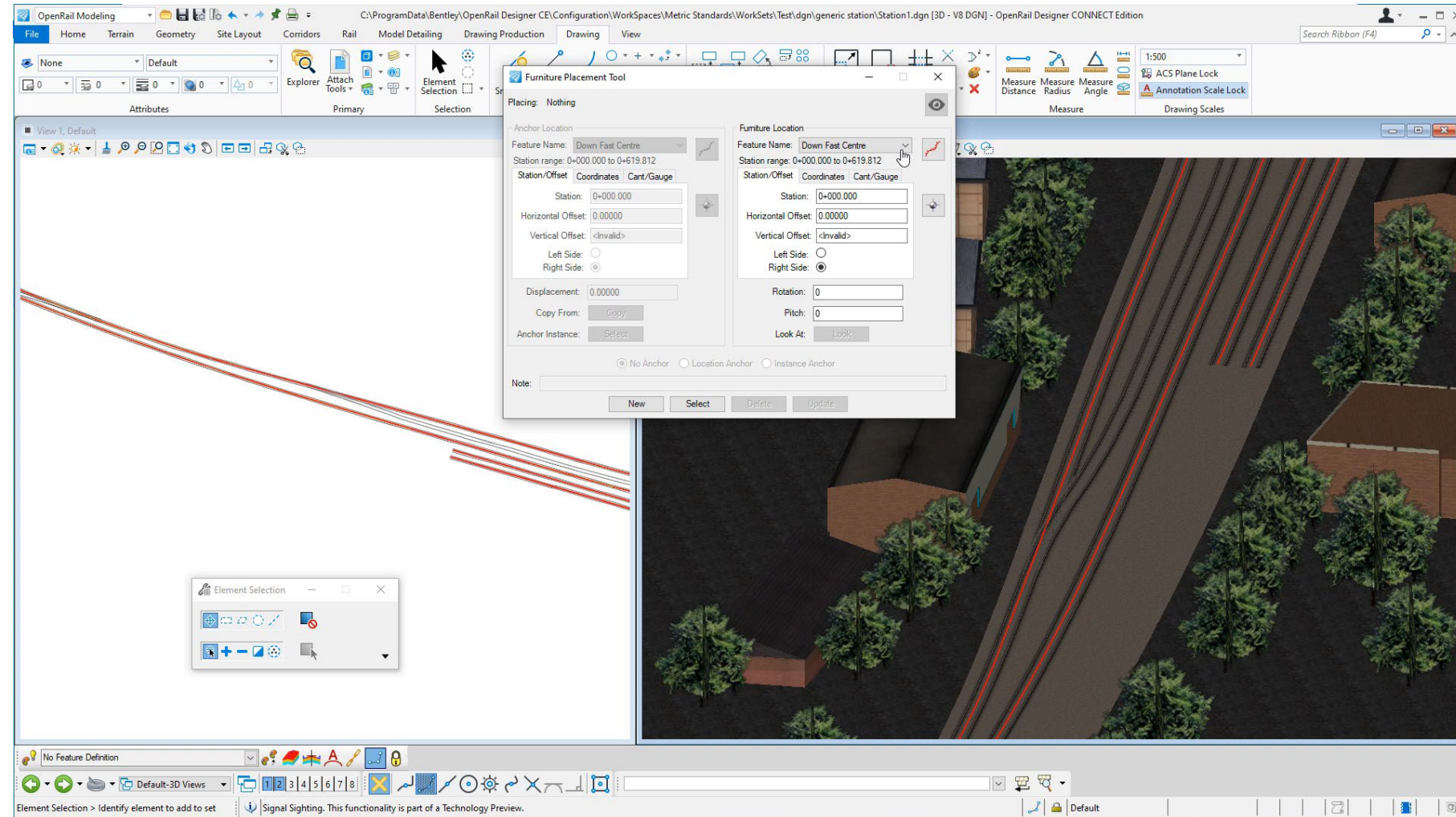


# Topics

- Distributed Design
- Detailed Design
- Futures (2019 Release 3)

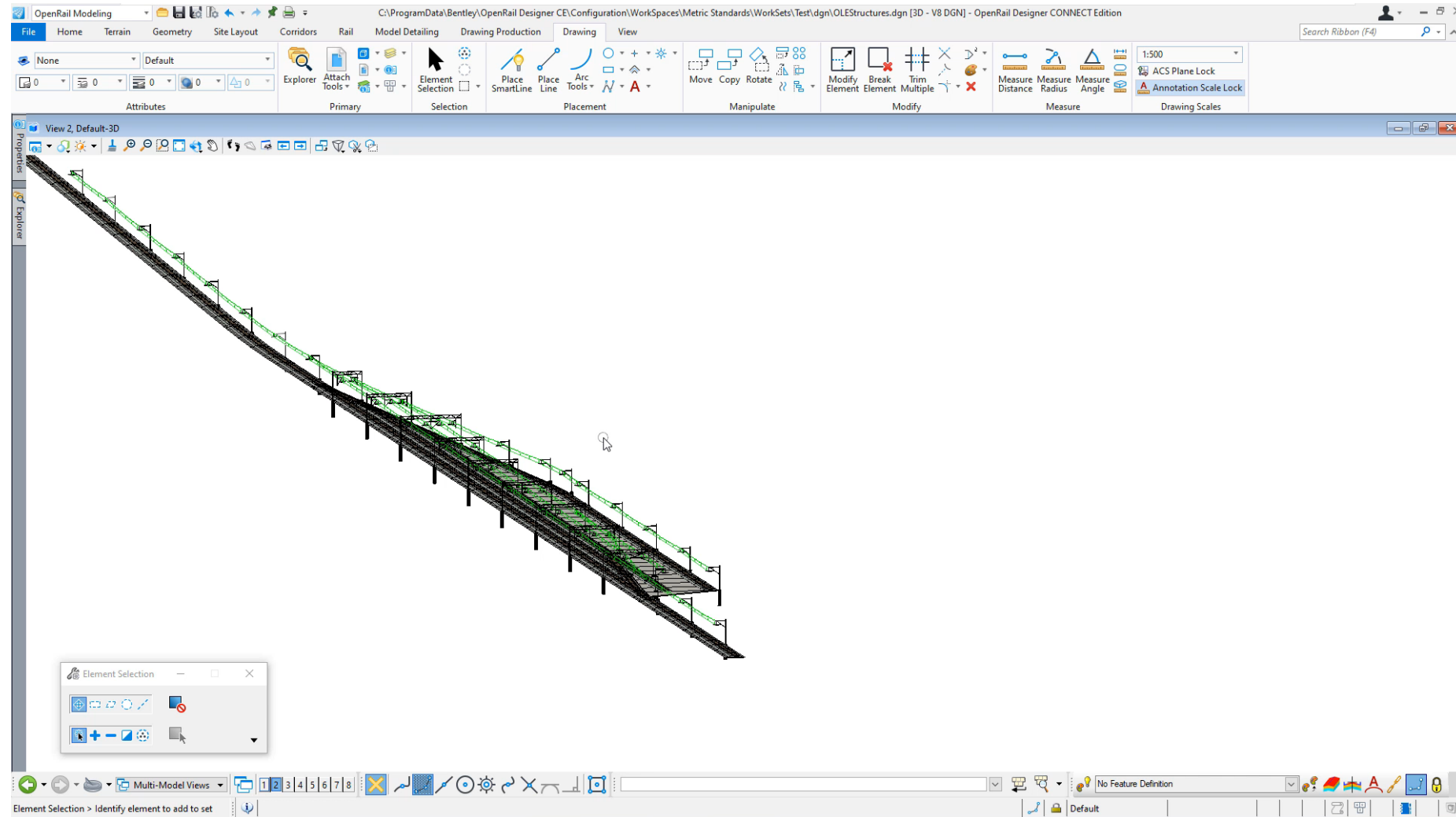
# Signal Sighting tool

New in  
2019R3



# Overhead line Structures - (Technical preview)

New in  
2019R3





# Thank you

*Questions?*