

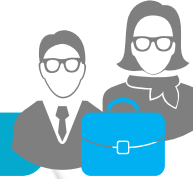
A large industrial plant at night, illuminated by blue lights. The scene features tall cylindrical towers, complex piping, and multiple levels of walkways. A large, dark blue arrow graphic points downwards from the top left corner of the image.

OpenPlant for multi-discipline and multi-vendor design

Jarek Sitek – Bentley Systems

Plant Design Project Challenges

Brownfield / Greenfield

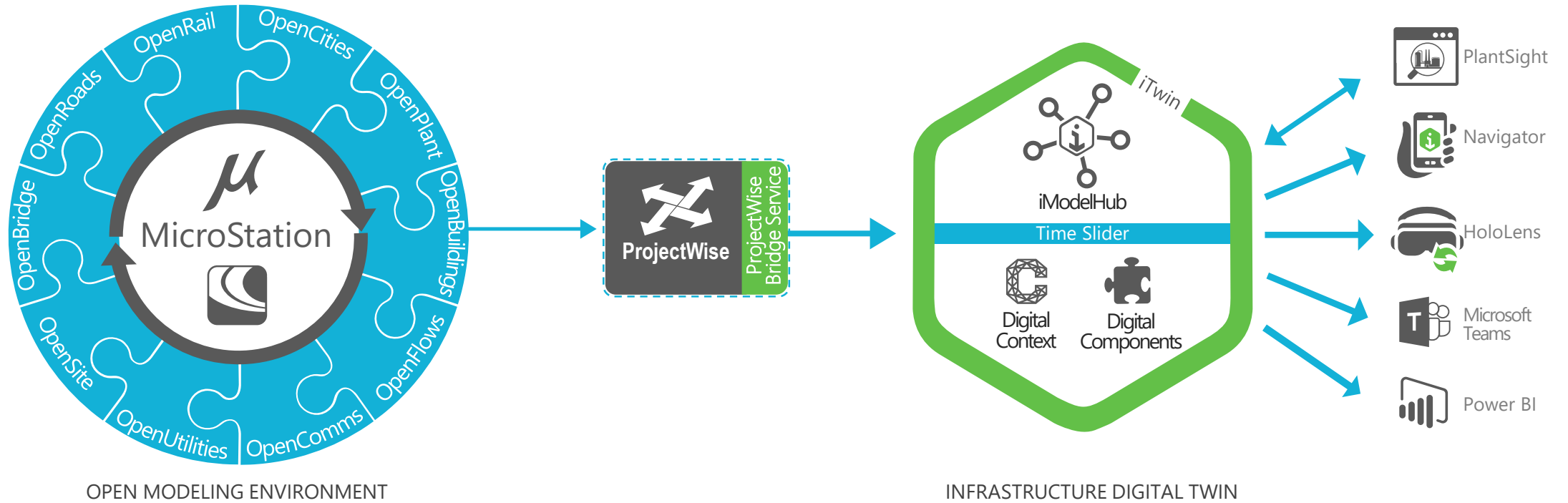


- Data acquisition
- Existing site conditions
- Data from various sources
- Communication
- Integration
- Safety

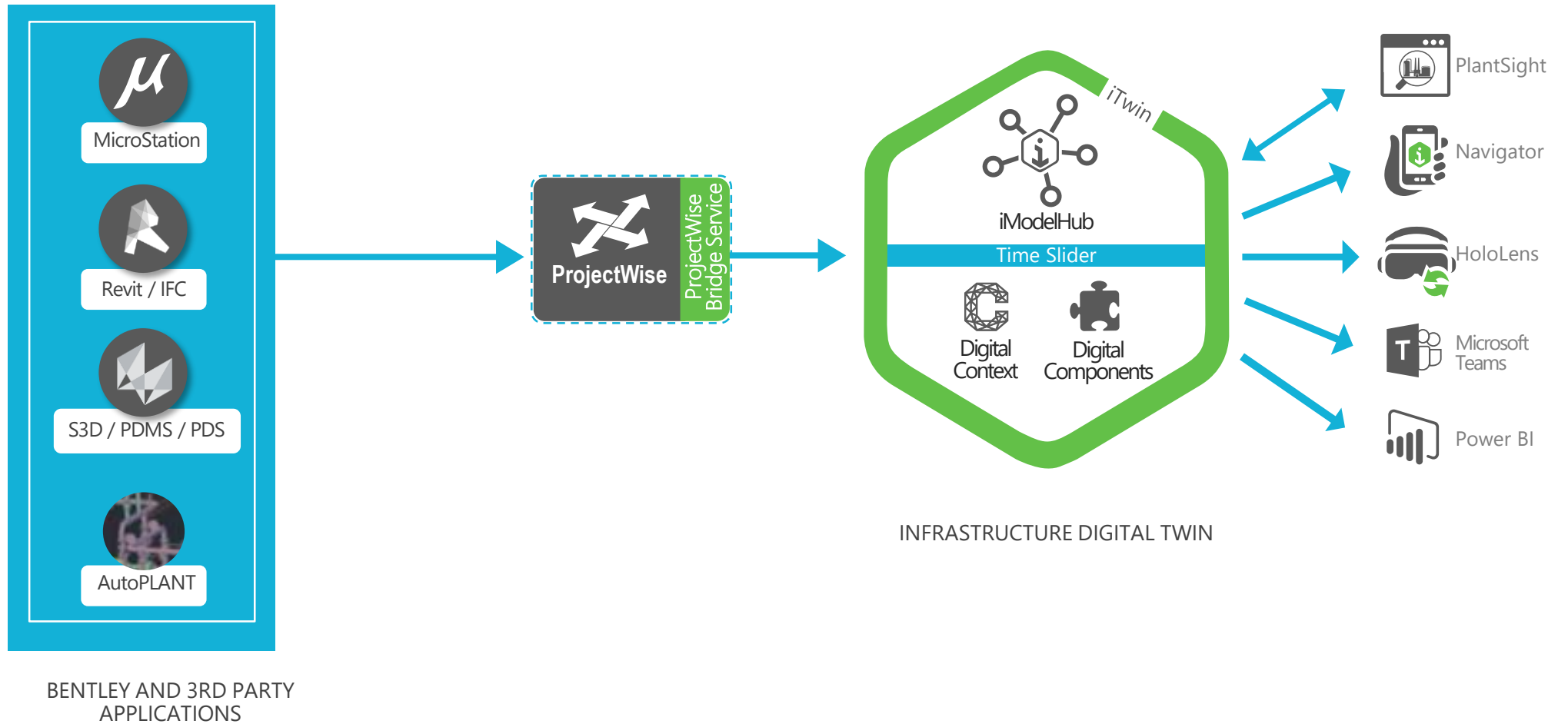


- Layout optimization
- Multiple contractors
- Multi-discipline
- Distributed / Remote teams
- Data handover
- Stakeholders involvement

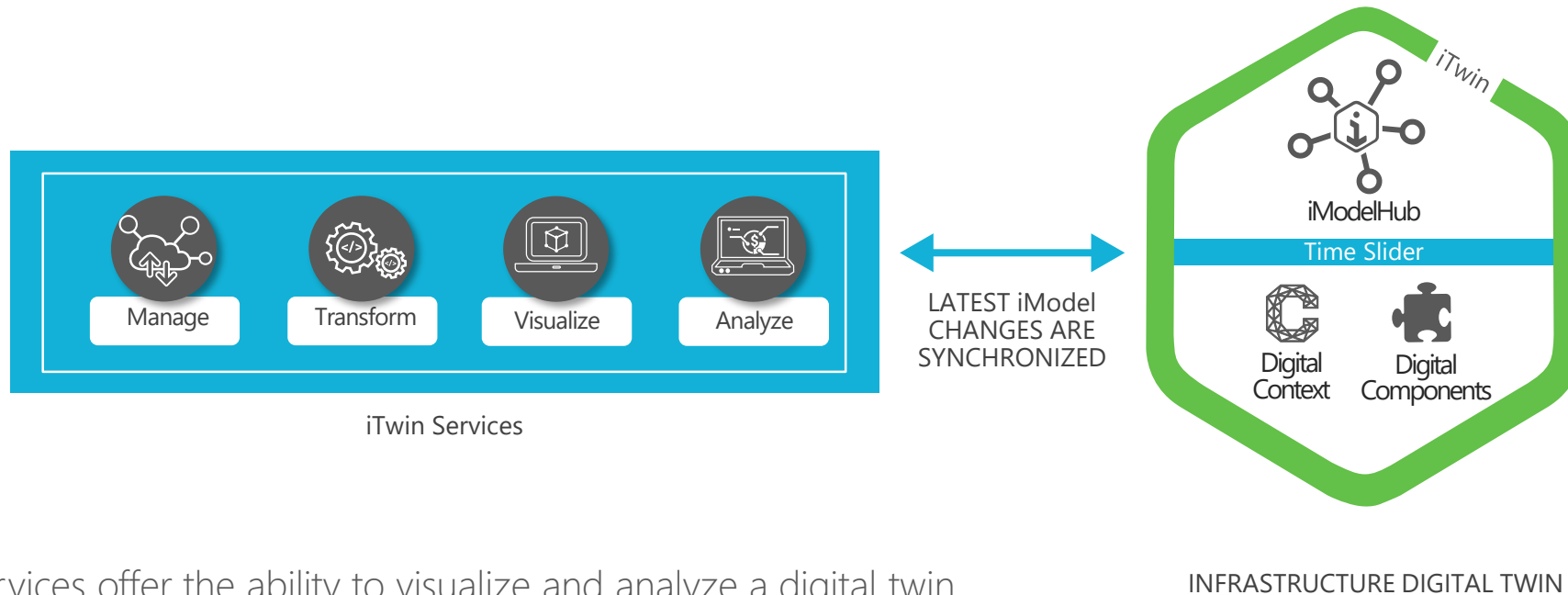
An iTwin is an Infrastructure Digital Twin



An iTwin Federates/Imports Models from Multi-vendor, Incompatible Repositories

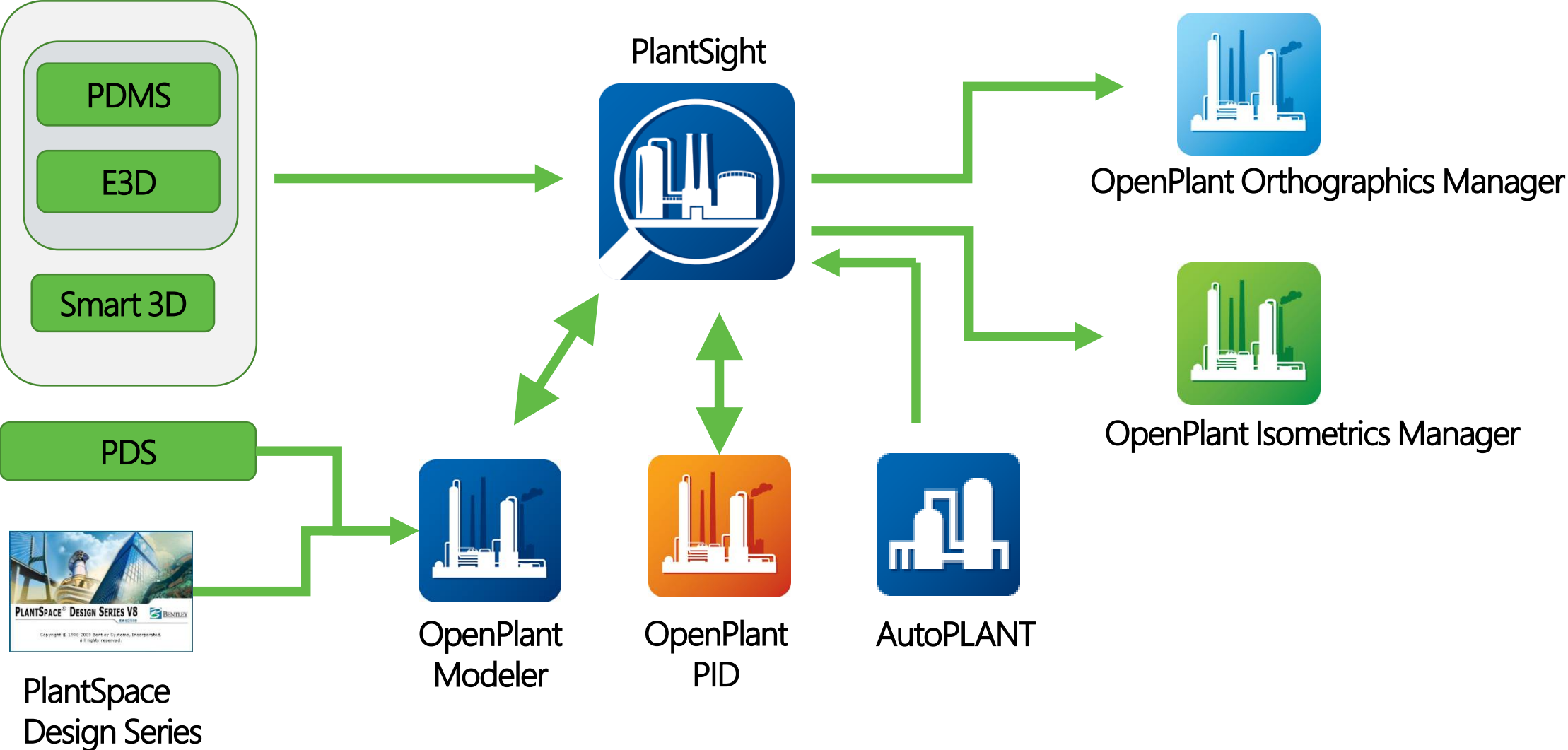


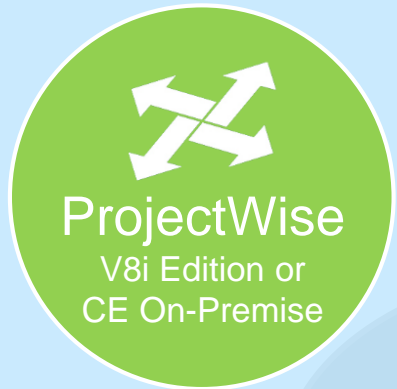
iTwin Services Offer the Ability to Visualize and Analyze an Infrastructure Digital Twin



iTwin Services offer the ability to visualize and analyze a digital twin comprising digital components authored by multiple, incompatible BIM/CAD and GIS tools. Continuous surveying through webcams or drones can incorporate construction status and site conditions for a complete digital representation of a project.

OpenPlant CONNECT Edition





ProjectWise Connection Services



Deliverables Management



Share



Issues Resolution



Field Data Management



Performance Dashboards



Office 365



Design Worksharing



BIM Review



Bid Management



Construction Management



Work Packaging



Completions



Design

Procure

Construct


Handover



ProjectWise 365 Services



Deliverables Management



Share



Issues Resolution



Field Data Management




Performance Dashboards






Design Worksharing






BIM Review



Bid Management


Construction Management

Construction Modeling

Completions



Design

Procure

Construct

Handover



All



Recycle Bin

10.06.00.09

Bentley



PlantSight™
Open 3D Model Bridge
CONNECT Edition

File Piping Equipment HVAC Raceways Structural PlantSight View Annotate Utilities Analyze Drawing Aids Help

Element Selection X

Selection Common Tools Primary Piping Galleries Piping Network Tools Manipulation

PlantSight Move Join Break Apply Slope Stretch

Search Ribbon (F4)

Element Selection

Standard Preferences for Piping Comp

Name	Value
Plant Associated Items	
Pipeline	
Component	
Specification	CS150
Nominal Diameter	250
Insulation Thickness	50
Insulation Material	Mineral Wool
Component State	Design

Component Gallery

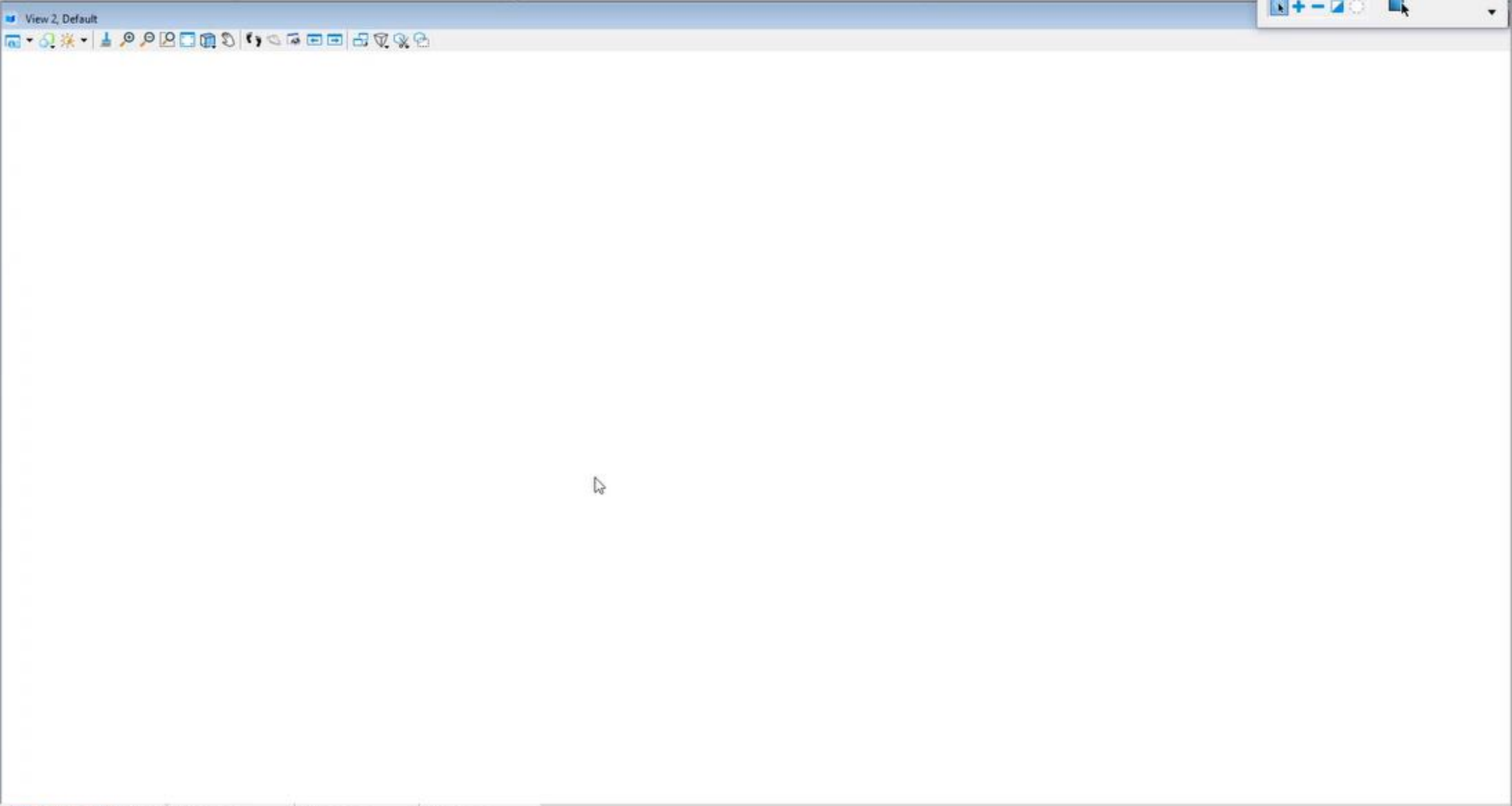
Pipes

- Pipe
- Wall Pipe
- Spool Piece
- Flexible Hose
- Freeform Nozzle

Pipes

- Elbows
- Tees
- Valves
- Operators

View 2, Default



Element Selection > Settings Saved

1 2 3 4 5 6 7 8 X 32883.65 Y 114011.34 Z -6130.07



OpenPlant for multi-discipline and multi-vendor design