iModelHub for OpenPlant

Bentley Systems

November 5th, 2018

Bentley Advancing Infrastructure

Multi-Disciplines +
Various Data Formats

Design Review

Clash Resolution

Data Handover

Energy Analysis

Material Estimating

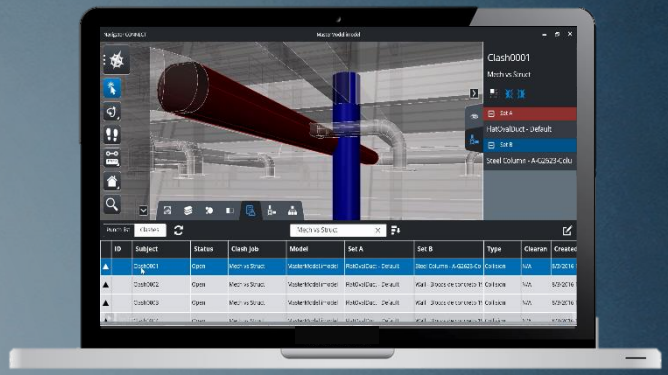
Construction Simulation

Advancing iModels

Embracing the change

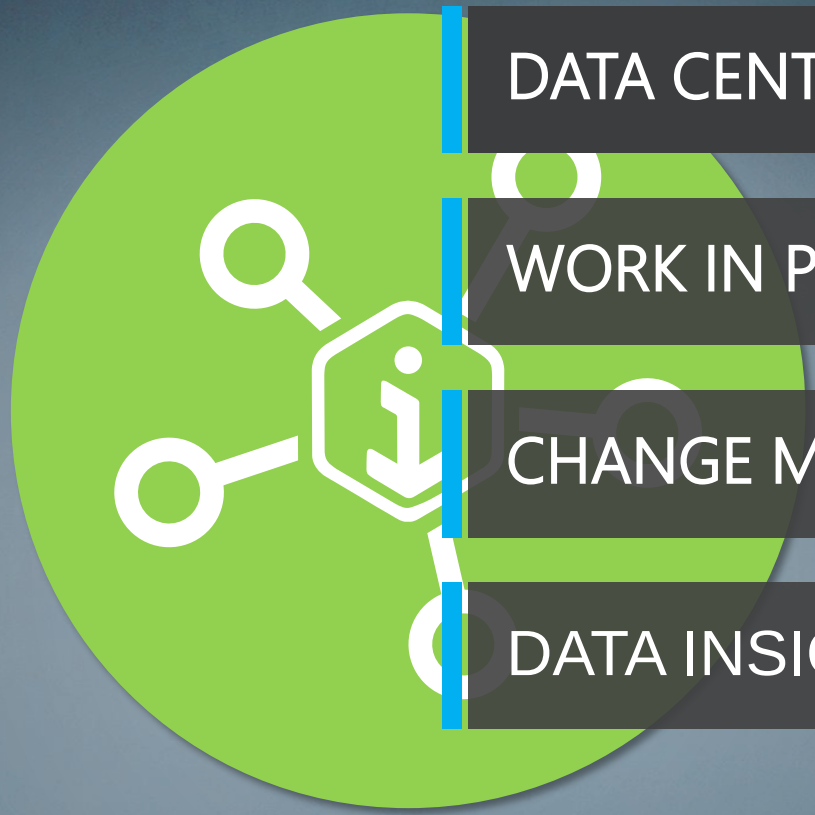
Connected Data Environment

iTwin Services



iModelHub

ContextShare



DATA CENTRIC

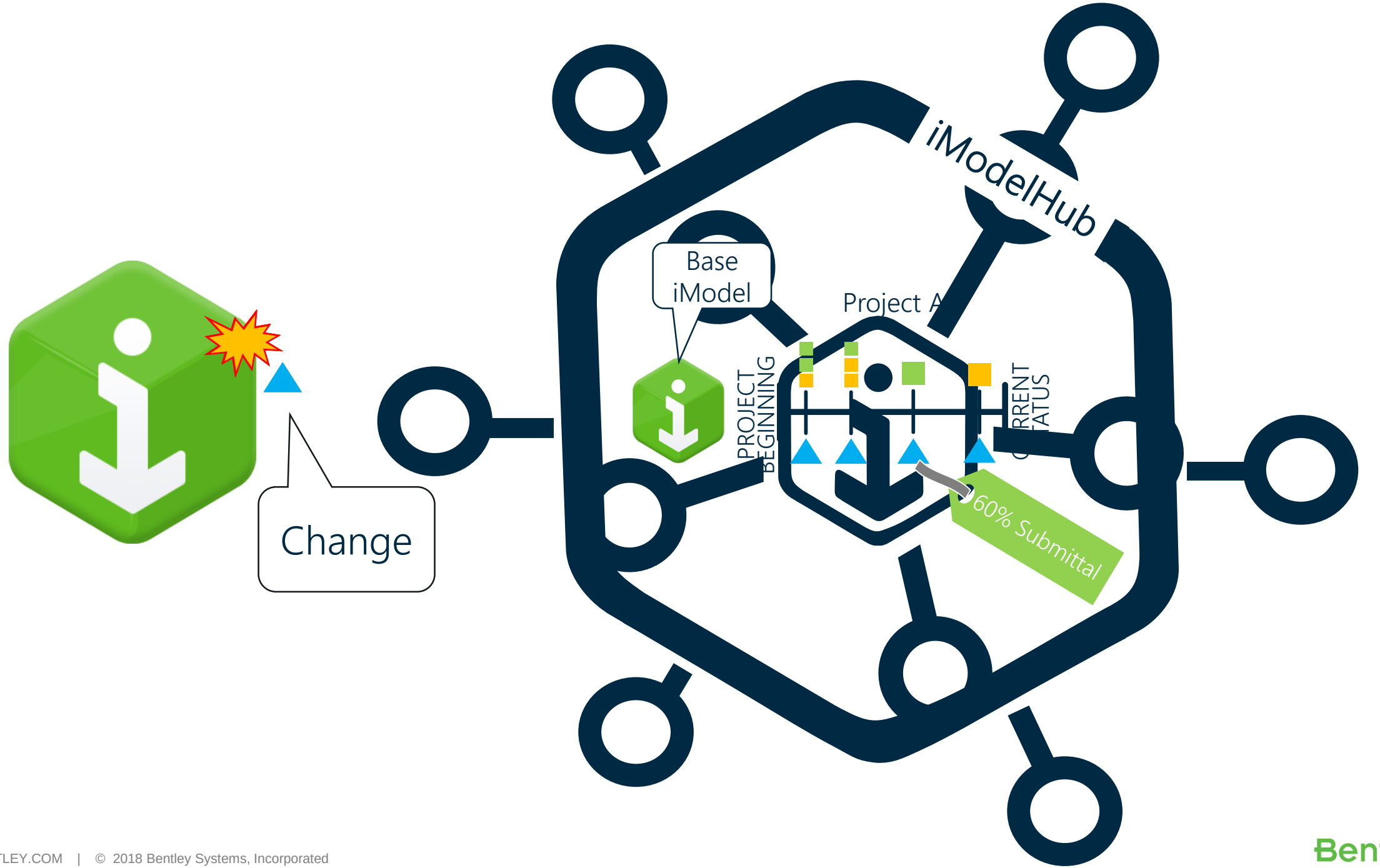
WORK IN PROGRESS DESIGN

CHANGE MANAGEMENT

DATA INSIGHTS

iModelHub

- RELATIONAL DATABASE
- NOT CLIENT-SERVER ARCHITECTURE
- POWERFUL SQL QUERIES
- SCALE UP



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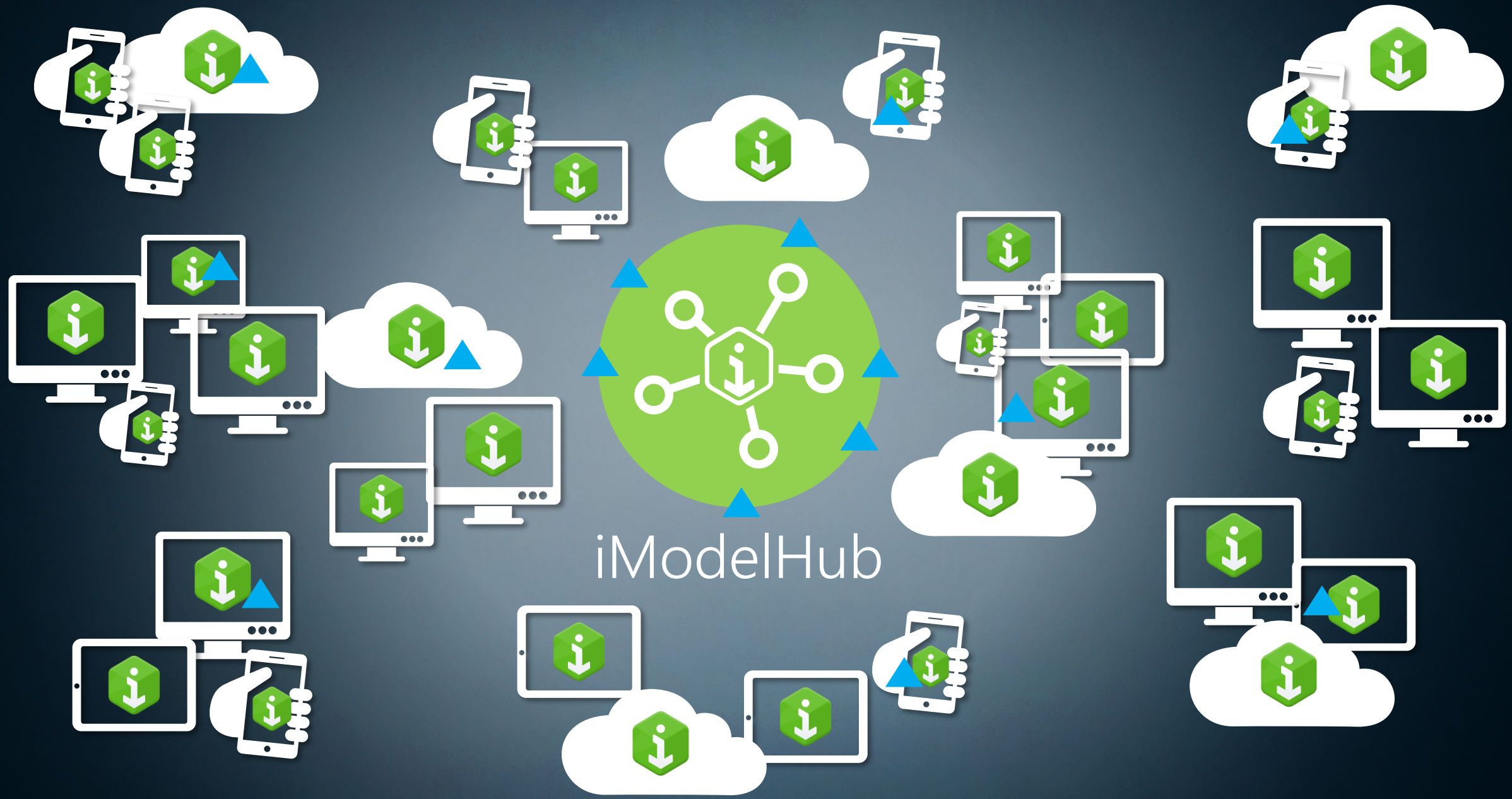
iModelHub

Learn

www.Bentley.com/iTwin

Join

imodeljs.org

Participate

iModelHub-EAP@bentley.com

iModel Hub Technology Preview

Component Based Design with OpenPlant CONNECT Edition

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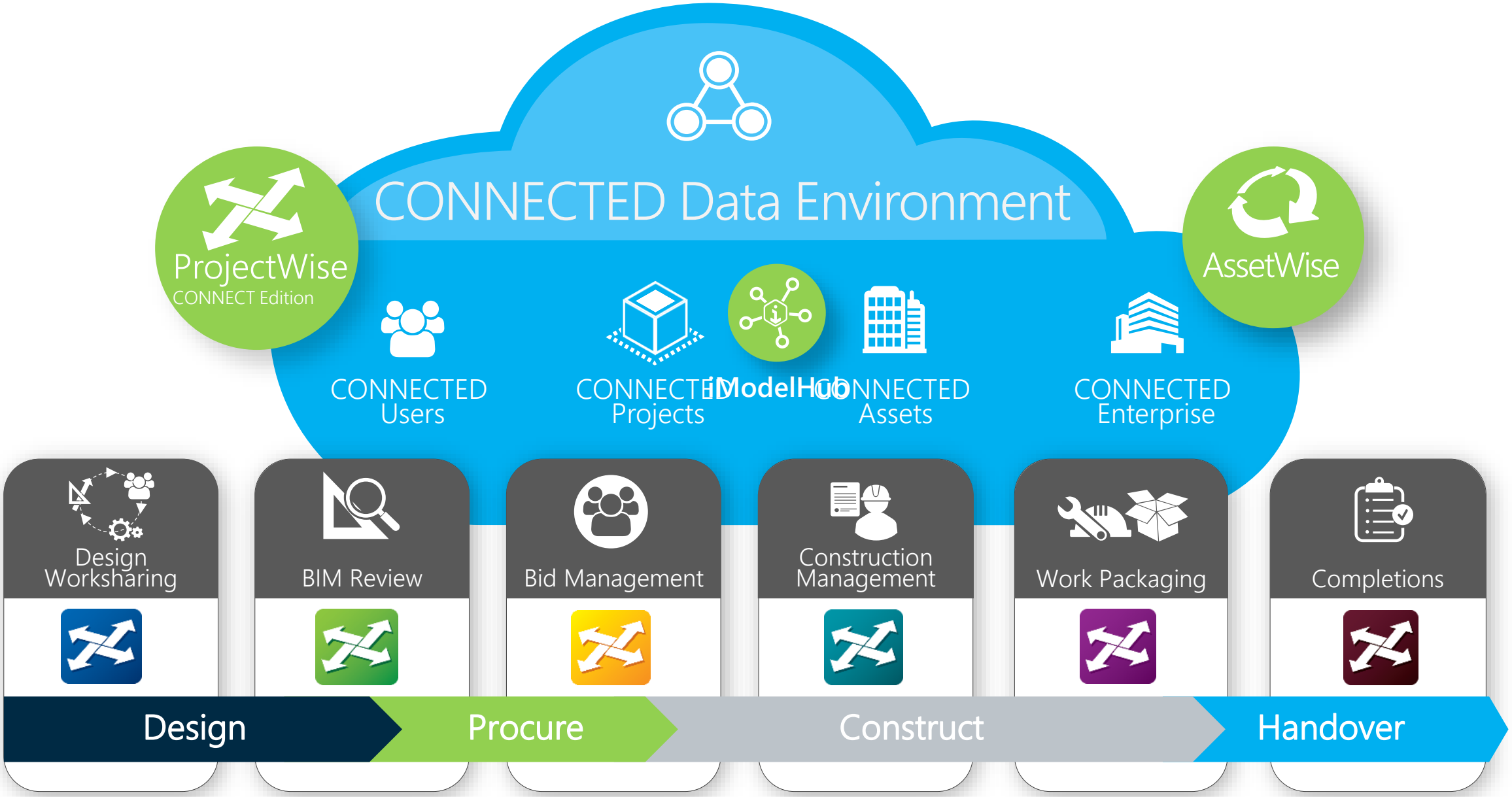
CONNECTED Data Environment
ProjectWise
CONNECT Edition
AssetWise
CONNECTED
Users
CONNECTED
Projects
iModelHub
CONNECTED
Assets
CONNECTED
Enterprise
Design
Worksharing
BIM Review
Bid Management
Construction
Management
Work Packaging
Completions
Design
Procure
Construct
Handover

Component-based Design with OpenPlant – the Goals

- Provide Collaboration Service for OpenPlant
  - Consolidated multi-discipline design modeling and management
  - Component based Concurrent Design with Intelligent Change Merging
  - Highly performant and offline mode
- Support Cloud/Web based Tag Management
  - Central management of project's tag reservation, creation, query, and consistency checking for multi-disciplinary workflows
  - Bulk creation and editing using Web UI forms, Excel and Data Sheet. Dash-boarding and reporting.
  - Support web, mobile, and desktop clients
- Synchronize Life Cycle Information with Enterprise Data Store
  - Asset tags transformation
  - Construction information transformation with ConstructSim and WPS

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OpenPlant iModelHub Integration Timeline

- OpenPlant CONNECT Edition first release
  - File Based Workflows
  - Technology Preview of iModelHub Integration
    - OpenPlant PID
  - Technology Preview of “Plant Web Portal”
- OpenPlant CONNECT Edition Update 1 – April 2018
  - Technology Preview of iModelHub Integration
    - OpenPlant PID
    - OpenPlant Modeler
  - Technology Preview of “Plant Web Portal”
- OpenPlant CONNECT Edition Update 2 – November 2018
- OpenPlant CONNECT Edition Update 3 – January 2019

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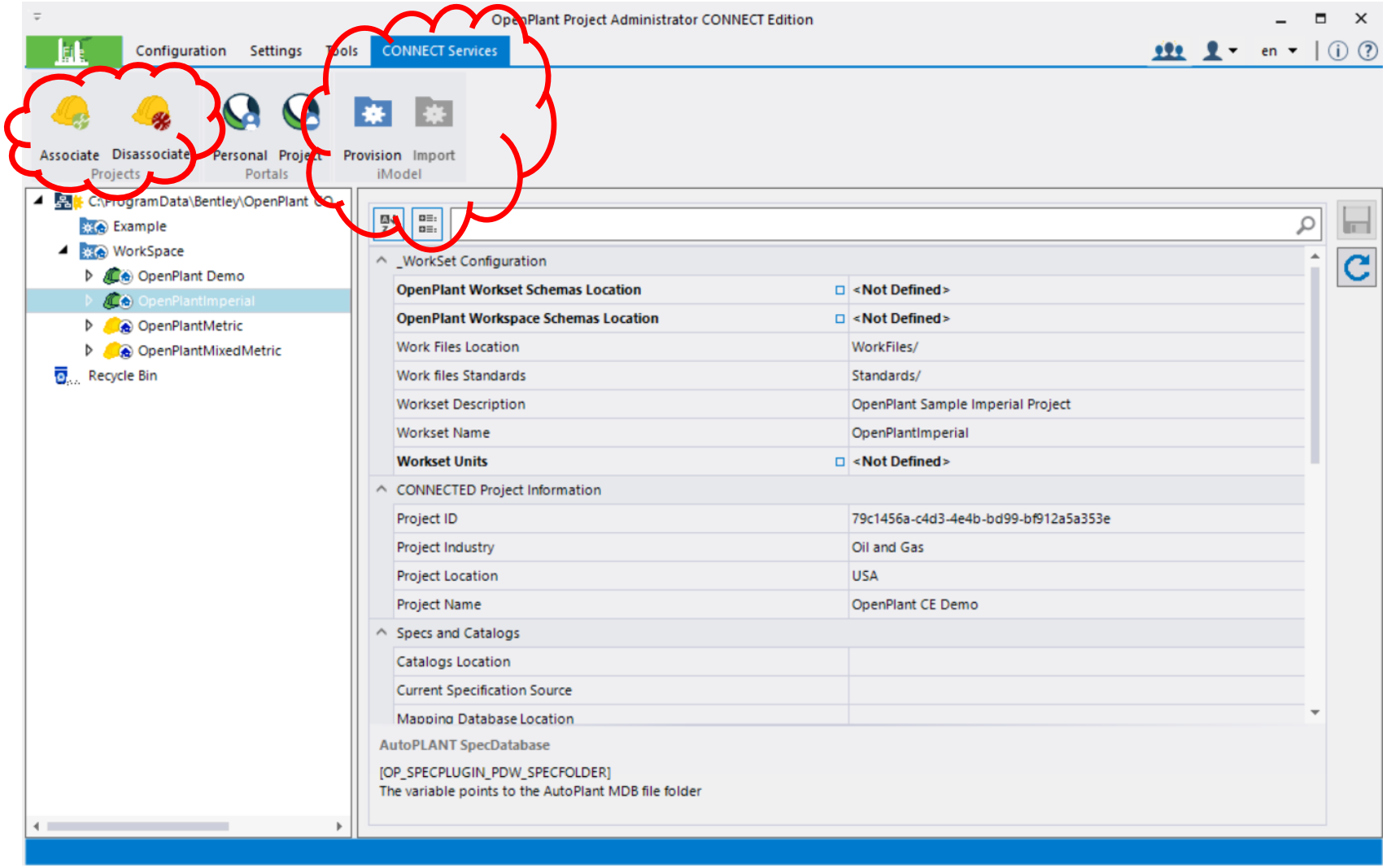
OpenPlant CONNECT Edition – Administrator Tools



- Steps for setup:
  - Register CONNECTED project
  - Assign team members
  - Create iModel
  - Associate workset with CONNECTED project
  - Provision iModel

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OpenPlant

CONNECT Edition

Looking Ahead!

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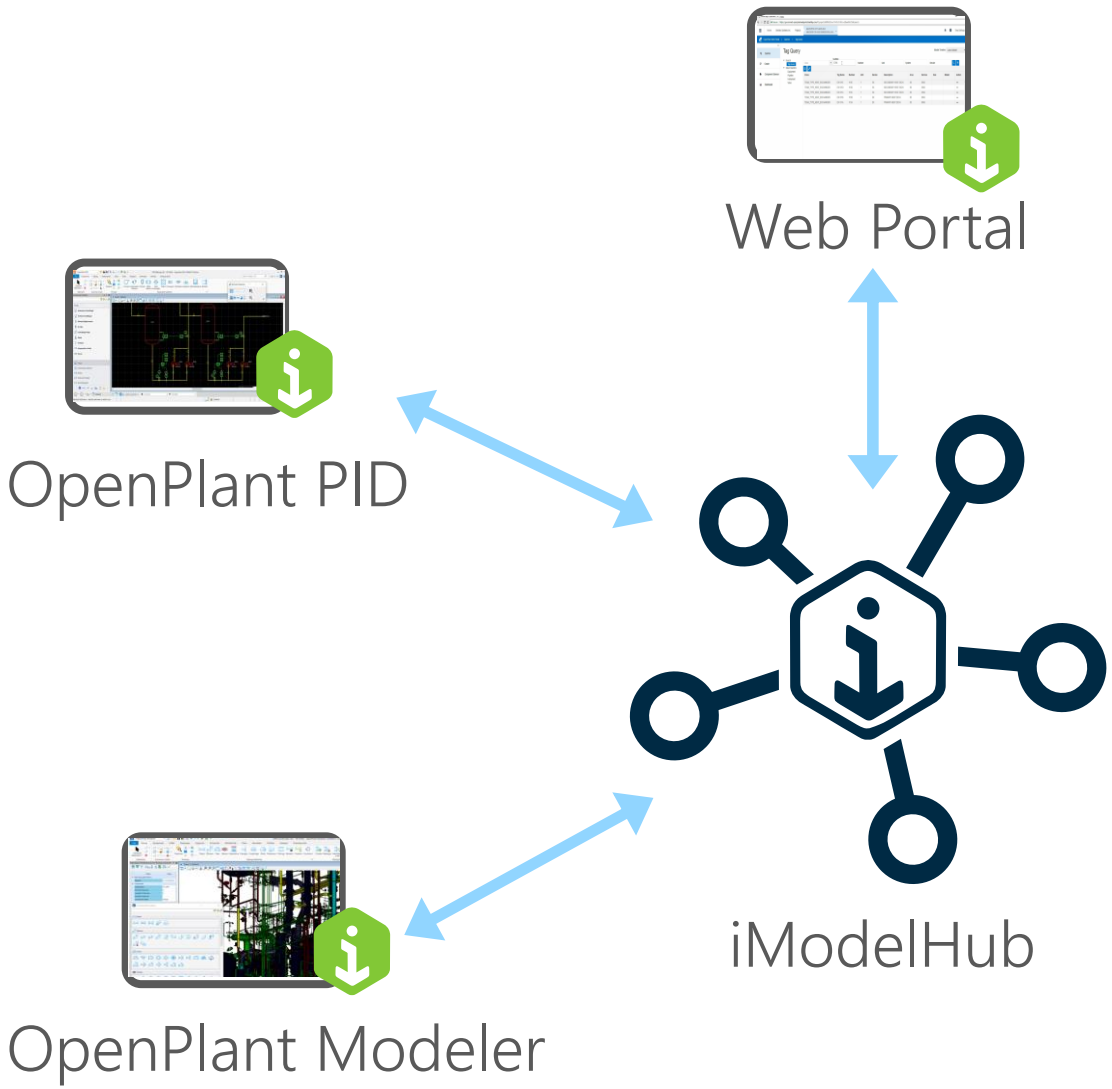
OpenPlant Modeler CE Update – Consistency Checking



- Create/Edit tags in
  - Web Portal
  - PID
  - OpenPlant Modeler
- Consistency Tree browser to reflect:
  - When tag exists but no PID or 3D component is placed
  - PID exists but 3D physical is not modeled
  - PID and 3D instance exists for a tag but data is different
  - All data is consistent
- Ability to:
  - Place components from tree
  - Browse for tags
  - Generate Report
  - Highlight difference

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OpenPlant CONNECT Edition Updates

- Editing capability on Web Portal
  - Bulk Import of tags
  - Edit tags
  - Create tags
  - Enhanced user interface

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Interoperability Plans

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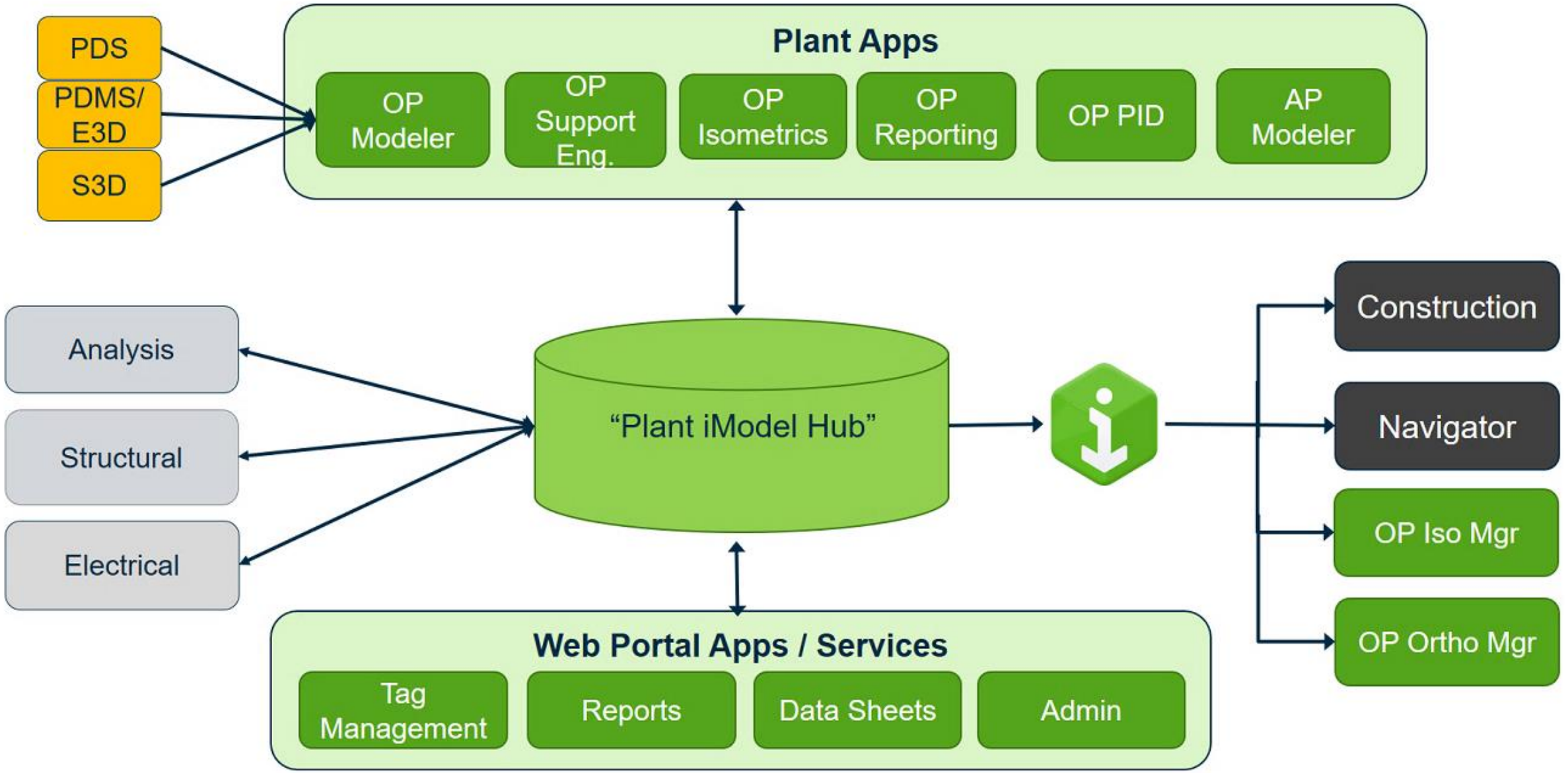
Plant/Structural/Analysis Architecture Look Ahead



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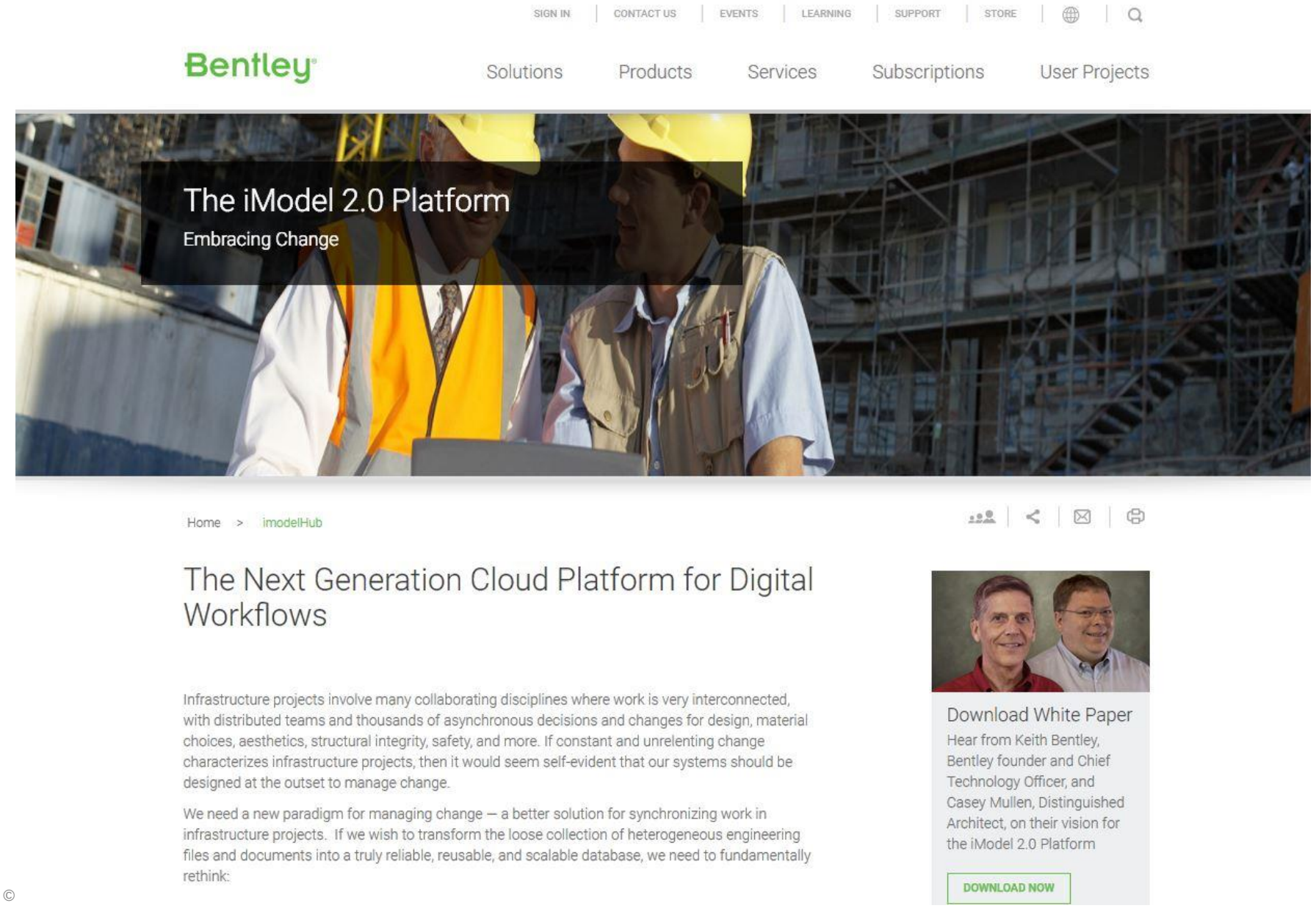
To learn more – www.imodelhub.com



Thank You !

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