



# iModelHub for OpenPlant

Bentley Systems

November 5th, 2018







Multi-Disciplines + Various Data Formats



Design Review



Clash Resolution



Data Handover



Energy Analysis



Material Estimating



Construction Simulation



# Advancing iModels

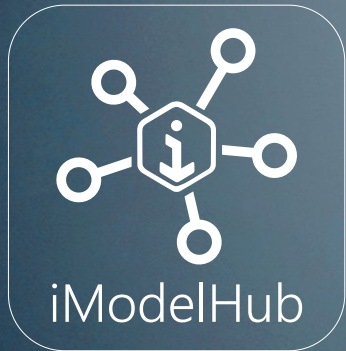
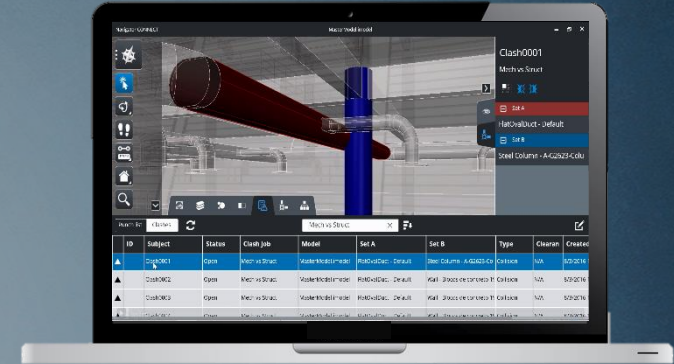
Embracing the change



```
class MirrorX(bpy.types.Object):  
    """This adds an X mirror to the scene"""  
    bl_idname = "object_mirror_x"  
    bl_label = "Mirror X"  
    def __init__(self, context):  
        pass
```



# Connected Data Environment







iModelHub



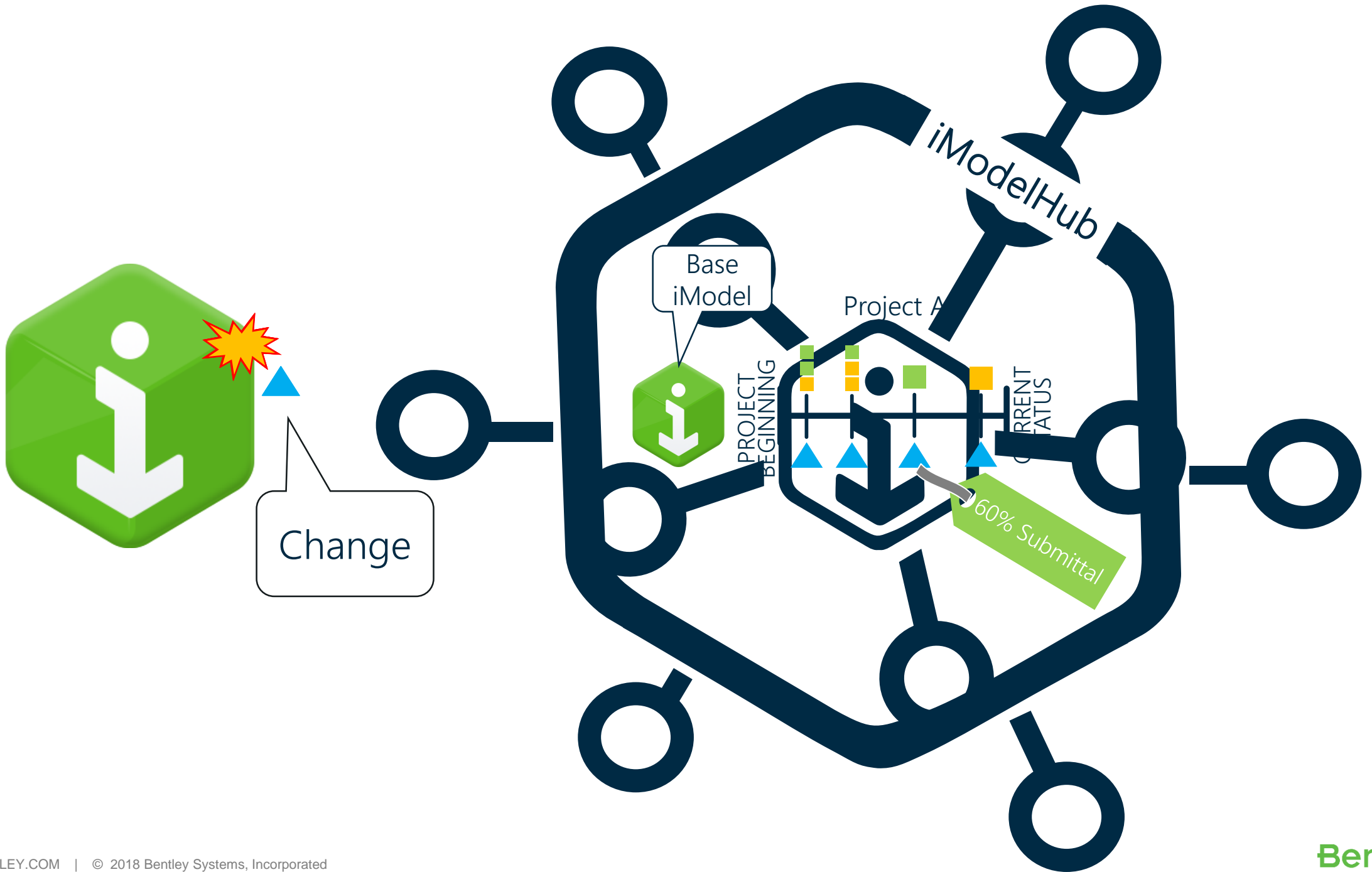
RELATIONAL DATABASE

NOT CLIENT-SERVER ARCHITECTURE

POWERFUL SQL QUERIES

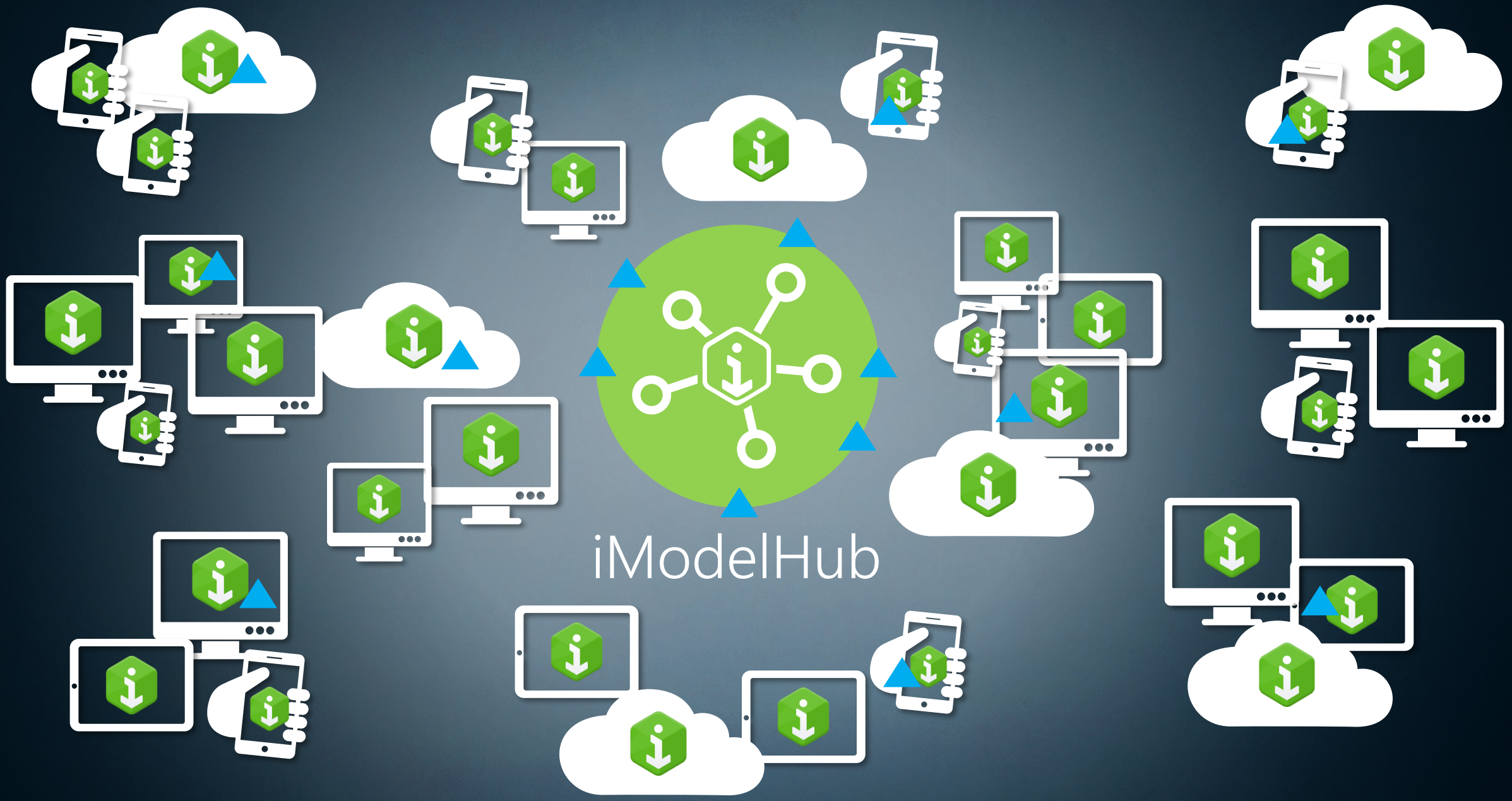
SCALE UP







iModelHub







# Learn

[www.Bentley.com/iTwin](http://www.Bentley.com/iTwin)

# Join

[imodeljs.org](http://imodeljs.org)

# Participate

[iModelHub-EAP@bentley.com](mailto:iModelHub-EAP@bentley.com)





# iModel Hub Technology Preview

Component Based Design with OpenPlant CONNECT Edition







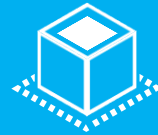
# CONNECTED Data Environment

ProjectWise  
CONNECT Edition

AssetWise



CONNECTED  
Users



CONNECTED  
Projects



CONNECTED  
Assets



CONNECTED  
Enterprise

Design  
Worksharing

Design

BIM Review

Procure

Bid Management

Construct

Construction  
Management

Handover

Work Packaging

Handover

Completions

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

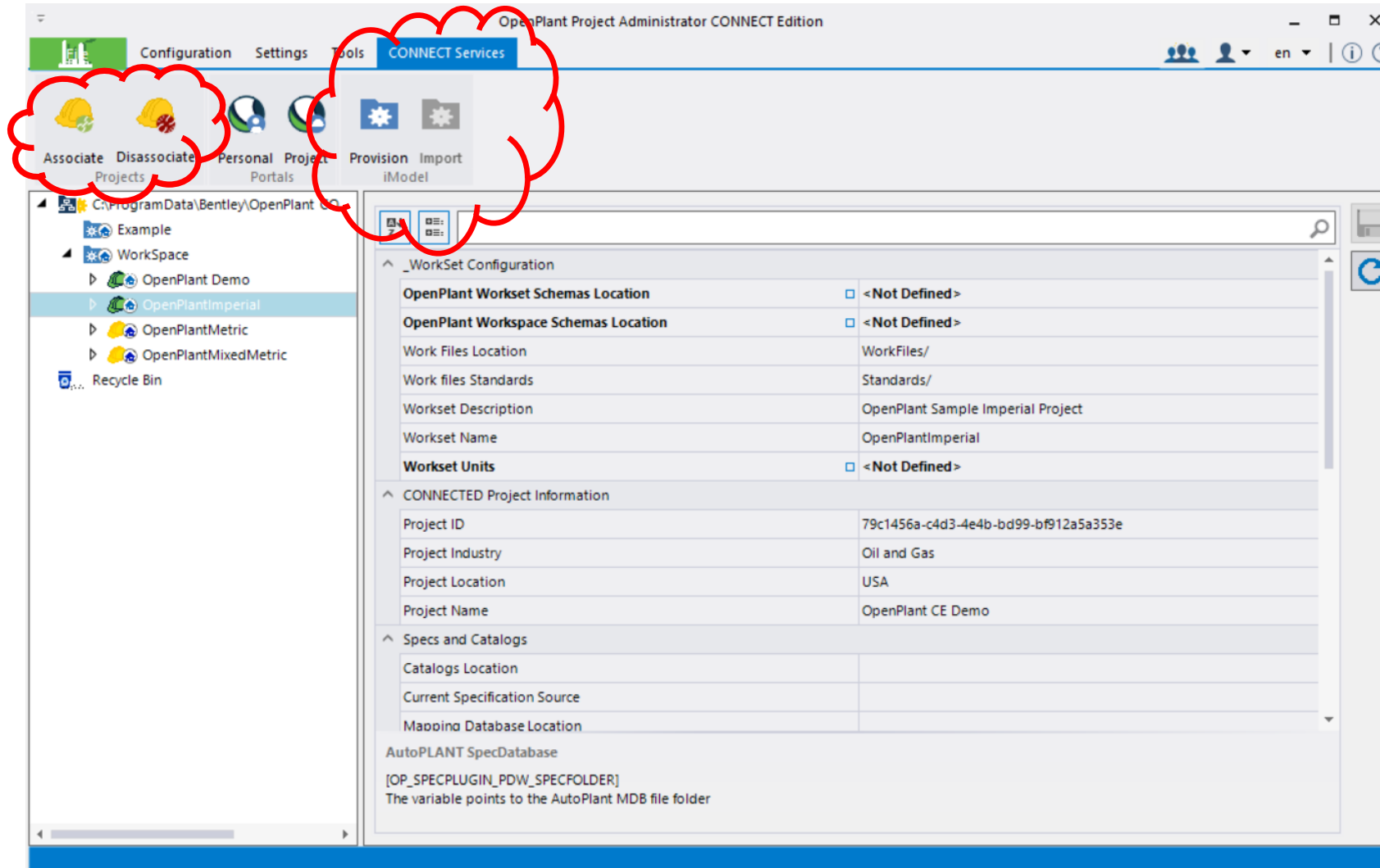


# OpenPlant iModelHub Integration Timeline

- 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



# OpenPlant CONNECT Edition – Administrator Tools



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



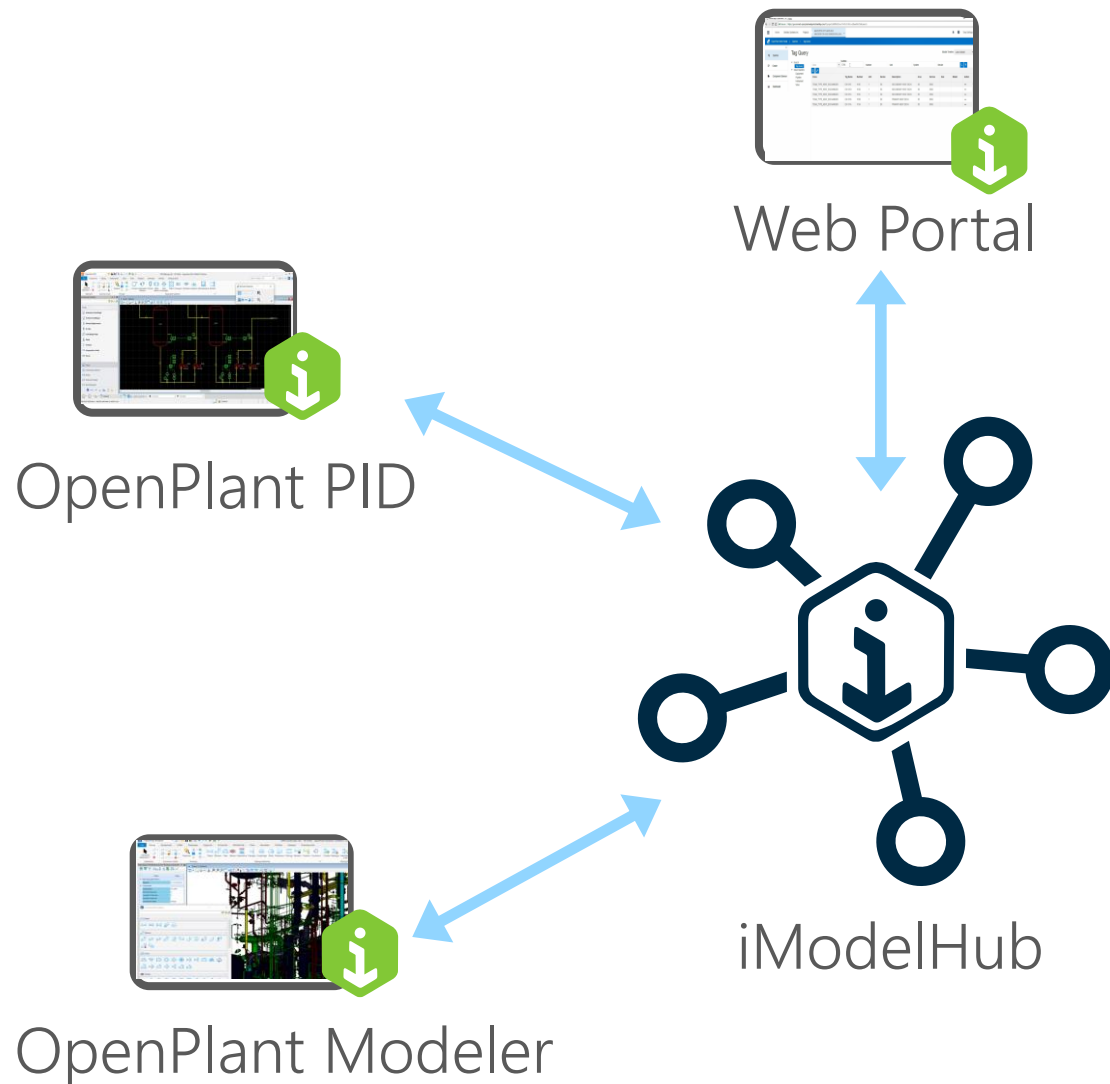
# OpenPlant

## CONNECT Edition

# Looking Ahead!



# 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

# OpenPlant CONNECT Edition Updates

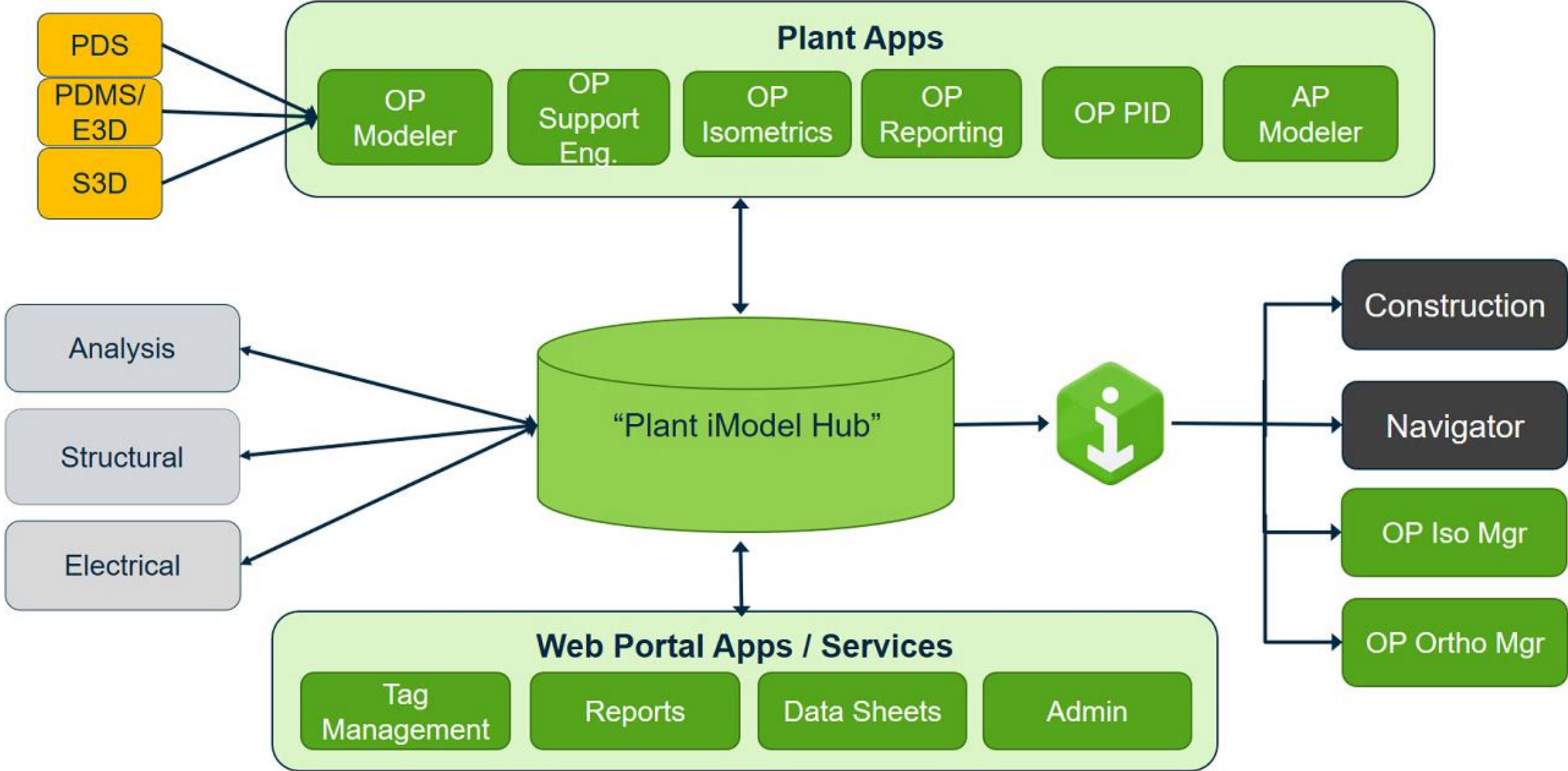
- Editing capability on Web Portal
  - Bulk Import of tags
  - Edit tags
  - Create tags
  - Enhanced user interface





# Interoperability Plans

# Plant/Structural/Analysis Architecture Look Ahead





# To learn more – [www.imodelhub.com](http://www.imodelhub.com)

[SIGN IN](#) | [CONTACT US](#) | [EVENTS](#) | [LEARNING](#) | [SUPPORT](#) | [STORE](#) |  | 

**Bentley**

[Solutions](#)

[Products](#)

[Services](#)

[Subscriptions](#)

[User Projects](#)



[Home](#) > [imodelHub](#)



## The Next Generation Cloud Platform for Digital Workflows

Infrastructure projects involve many collaborating disciplines where work is very interconnected, with distributed teams and thousands of asynchronous decisions and changes for design, material choices, aesthetics, structural integrity, safety, and more. If constant and unrelenting change characterizes infrastructure projects, then it would seem self-evident that our systems should be designed at the outset to manage change.

We need a new paradigm for managing change – a better solution for synchronizing work in infrastructure projects. If we wish to transform the loose collection of heterogeneous engineering files and documents into a truly reliable, reusable, and scalable database, we need to fundamentally rethink:



### Download White Paper

Hear from Keith Bentley, Bentley founder and Chief Technology Officer, and Casey Mullen, Distinguished Architect, on their vision for the iModel 2.0 Platform

[DOWNLOAD NOW](#)

**Bentley**



Thank You !