PT21758: 3D Model Collaboration with AutoCAD Plant 3D and Revit

Jason Drew Premium Support Specialist Quentin Contreras
Premium Support Specialist





You AU Experts



Jason Drew Premium Support Specialist Autodesk



Quentin Contreras
Premium Support Specialist
Autodesk



Class summary

This class covers workflows for 3D model collaboration between AutoCAD Plant 3D and Revit, managing design changes, and optimizing models for performance.



Key learning objectives

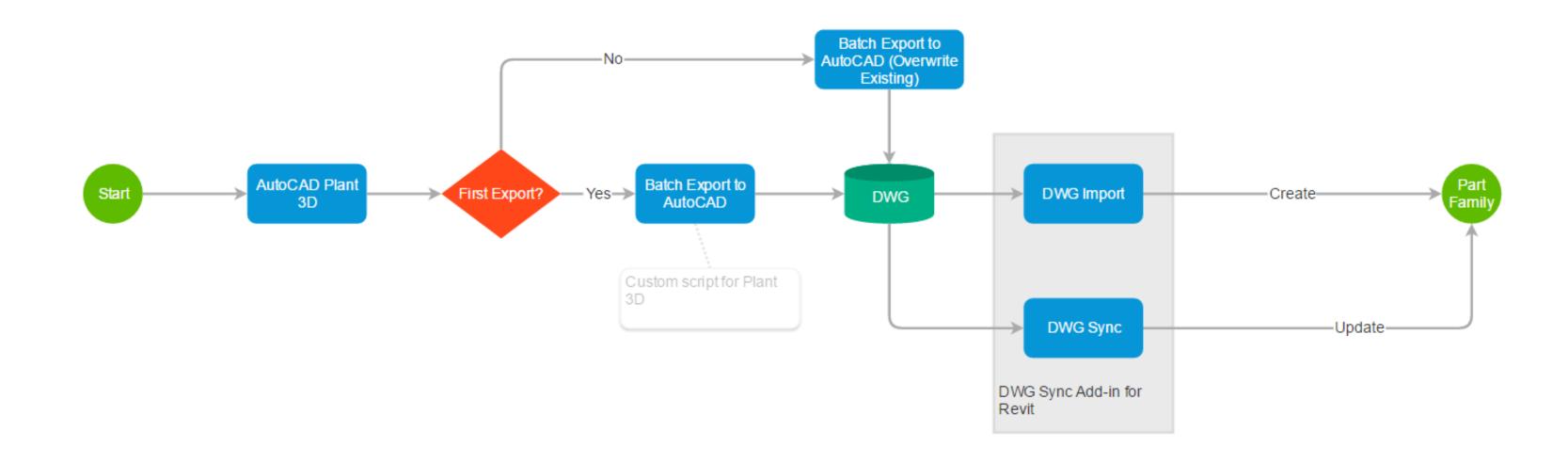
At the end of this class you will be able to:

- Export models from Plant 3D and import into Revit
- Export models from Revit and import into Plant 3D
- Update models with design changes
- Optimize models for performance





Workflow Overview

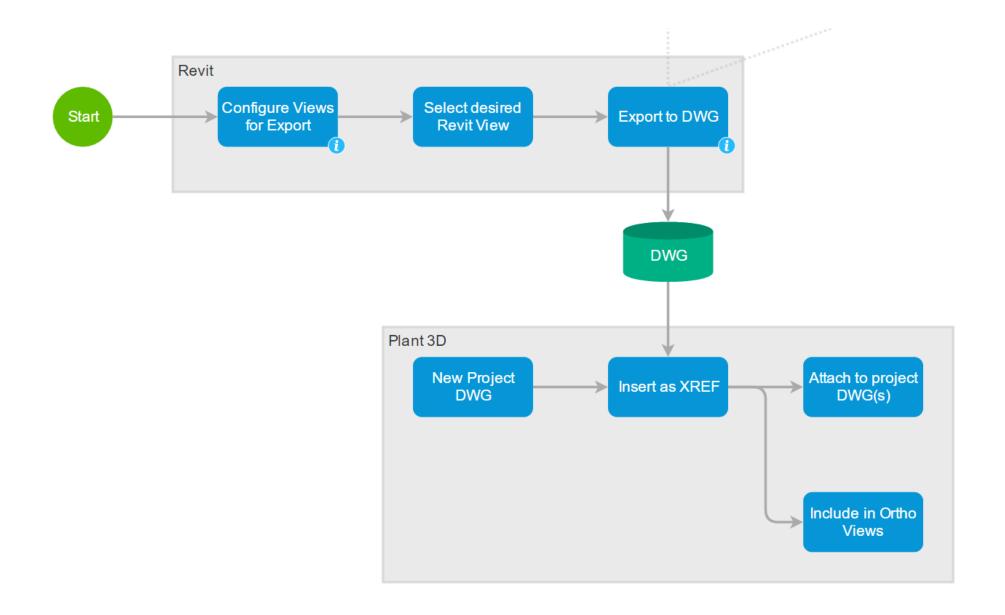


AutoCAD Plant 3D to Revit





Workflow Overview



Revit to AutoCAD Plant 3D



AutoCAD Plant 3D to Revit

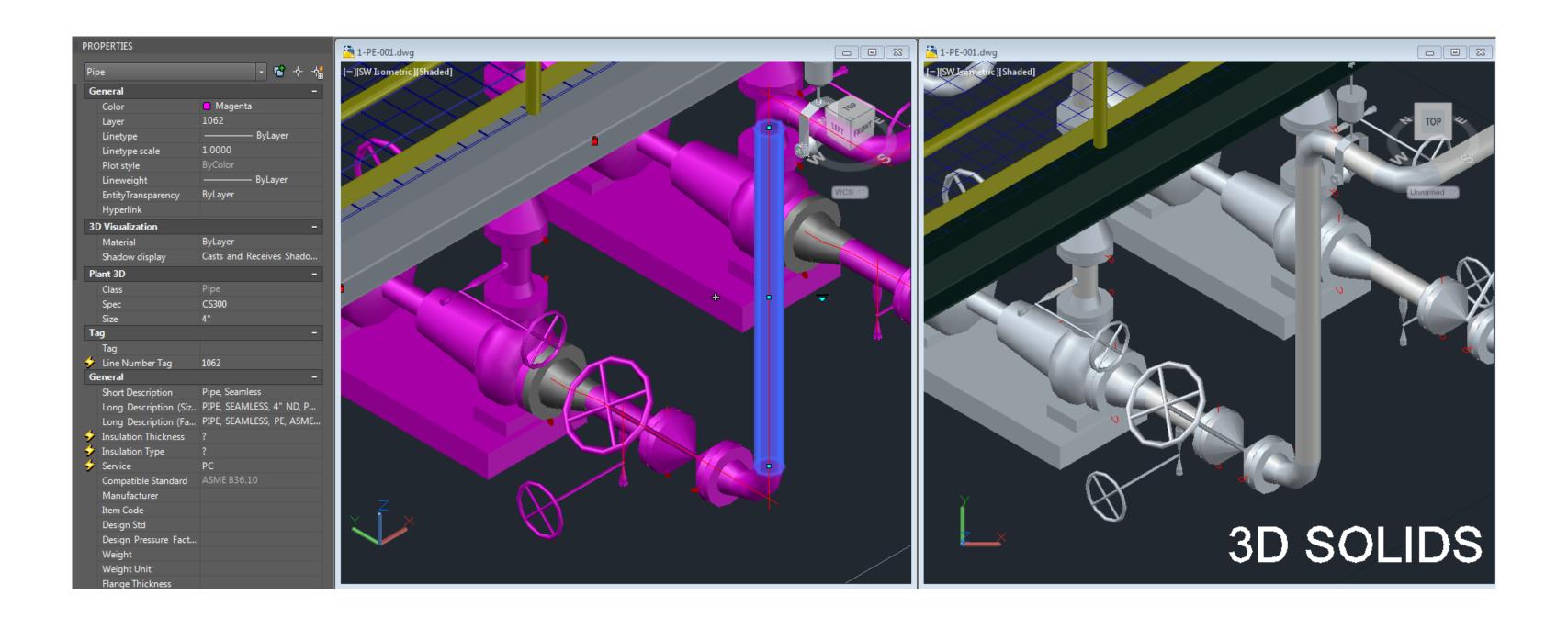


Export from Plant 3D

- Live Demo
 - EXPORTTOAUTOCAD
 - Batch Export to AutoCAD



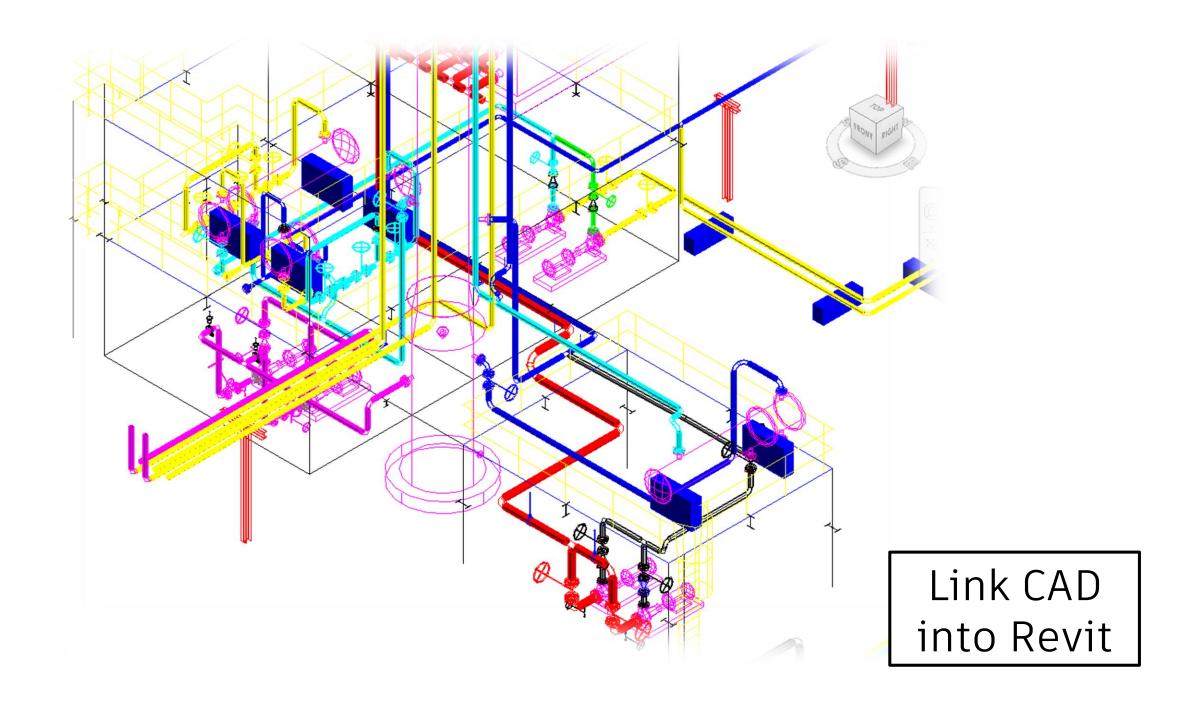
Export from Plant 3D



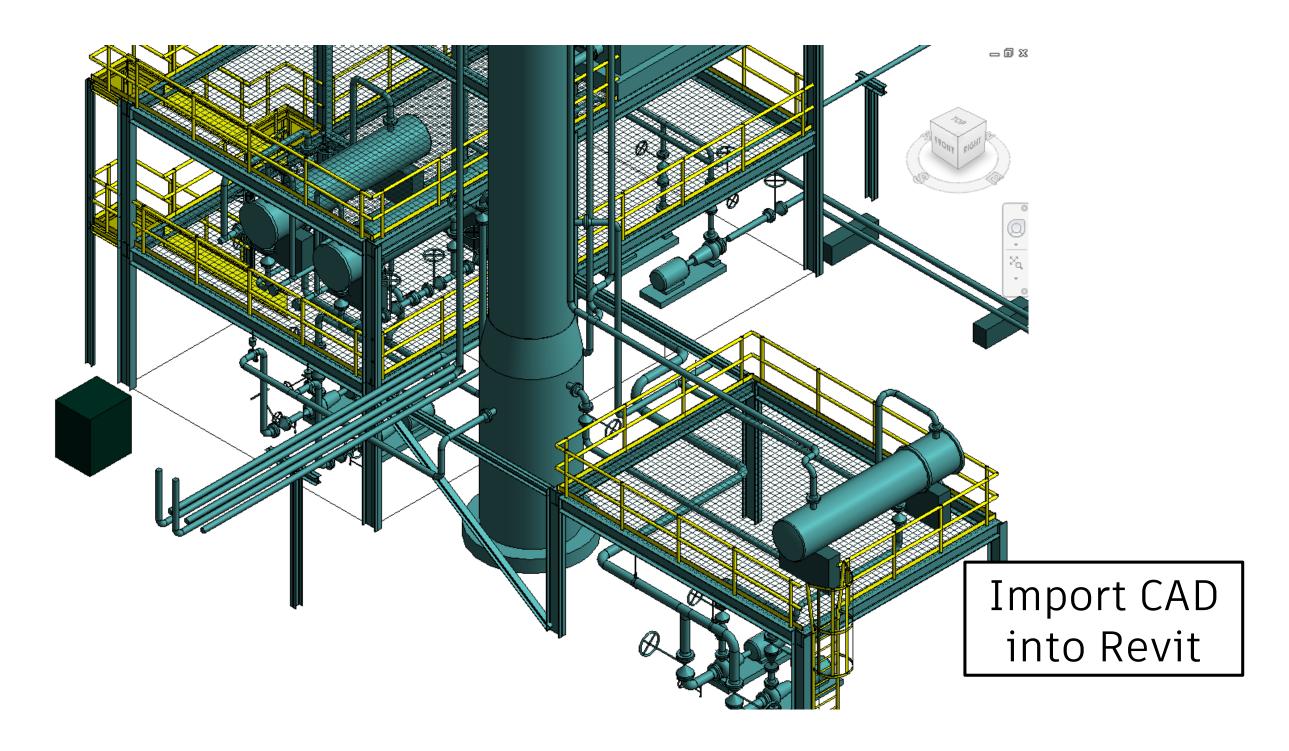


Overview











- Live Demo
 - Import into Revit using DWG Sync



Revit to AutoCAD Plant 3D



Export from Revit / Import into Plant 3D

- Live Demo
 - Revit View Configuration for Export
 - Export Revit Views to DWG
 - Attach as XREF in Plant Project



Model Management and Optimization

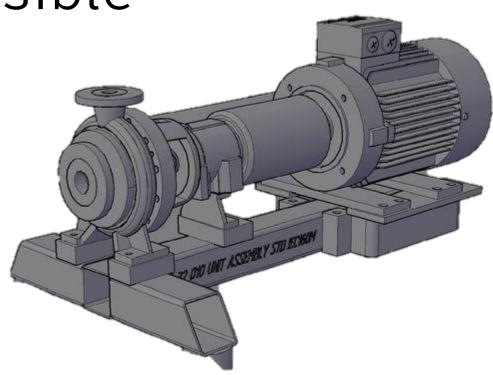


3D Model Complexity - Plant 3D

Tips for Plant Models

 Avoid complex vendor models for valves and equipment

"Shrink-wrap" models if possible



AUTODESK₈



3D Model Complexity - Plant 3D

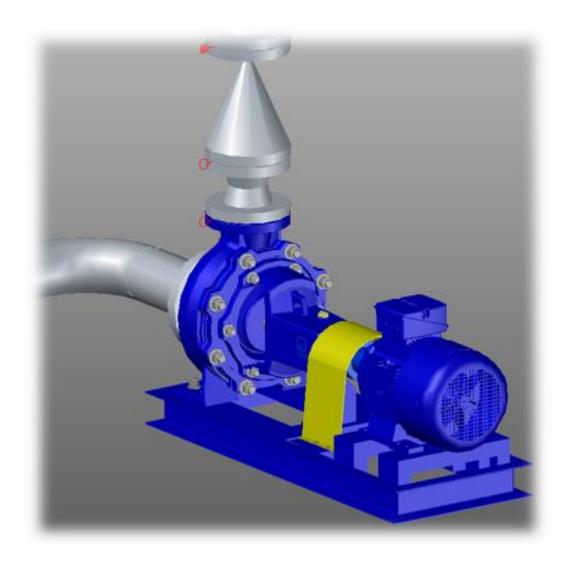


Figure 1. Detailed Vendor Equipment Model



Figure 2. Parametric Plant 3D Equipment



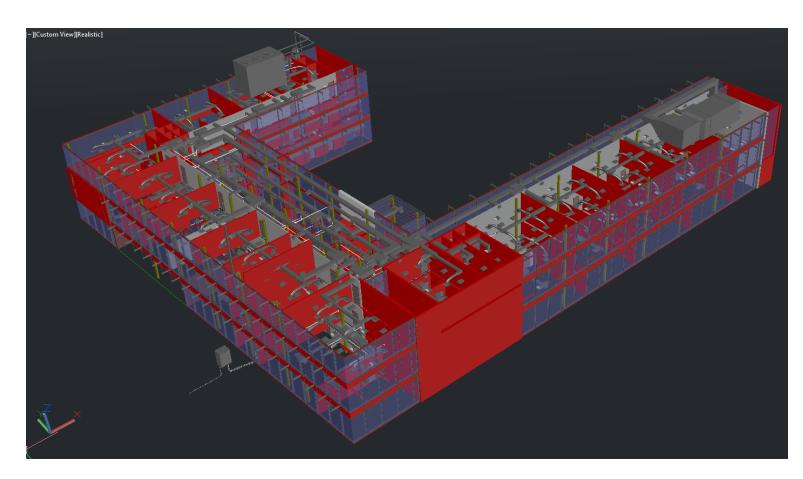
3D Model Complexity - Revit

- Tips for Revit Models
 - Only export the objects that are required for the design in Plant
 - Excessive geometry from Revit will increase
 Plant ortho view generation time





3D Model Complexity - Revit



Full Revit Model Export

12.6 MB

Simplified Revit Model Export 3.82 MB



Questions (2)



Conclusion

Enjoy the rest of Autodesk University 2016 and we hope to see you again next year!

Reminder:

- Autodesk Labs DWG Sync for Revit
 - Batch Export to AutoCAD utility
 - Download class handout
 - AU Class Survey







Autodesk is a registered trademark of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and/or other countries. All other brand names, or trademarks belong to their respective holders. Autodesk reserves the right to alter product and services offerings, and specifications and pricing at any time without notice, and is not responsible for typographical errors that may appear in this document. © 2016 Autodesk, Inc. All rights reserved.