Create and Manage Digital Factories

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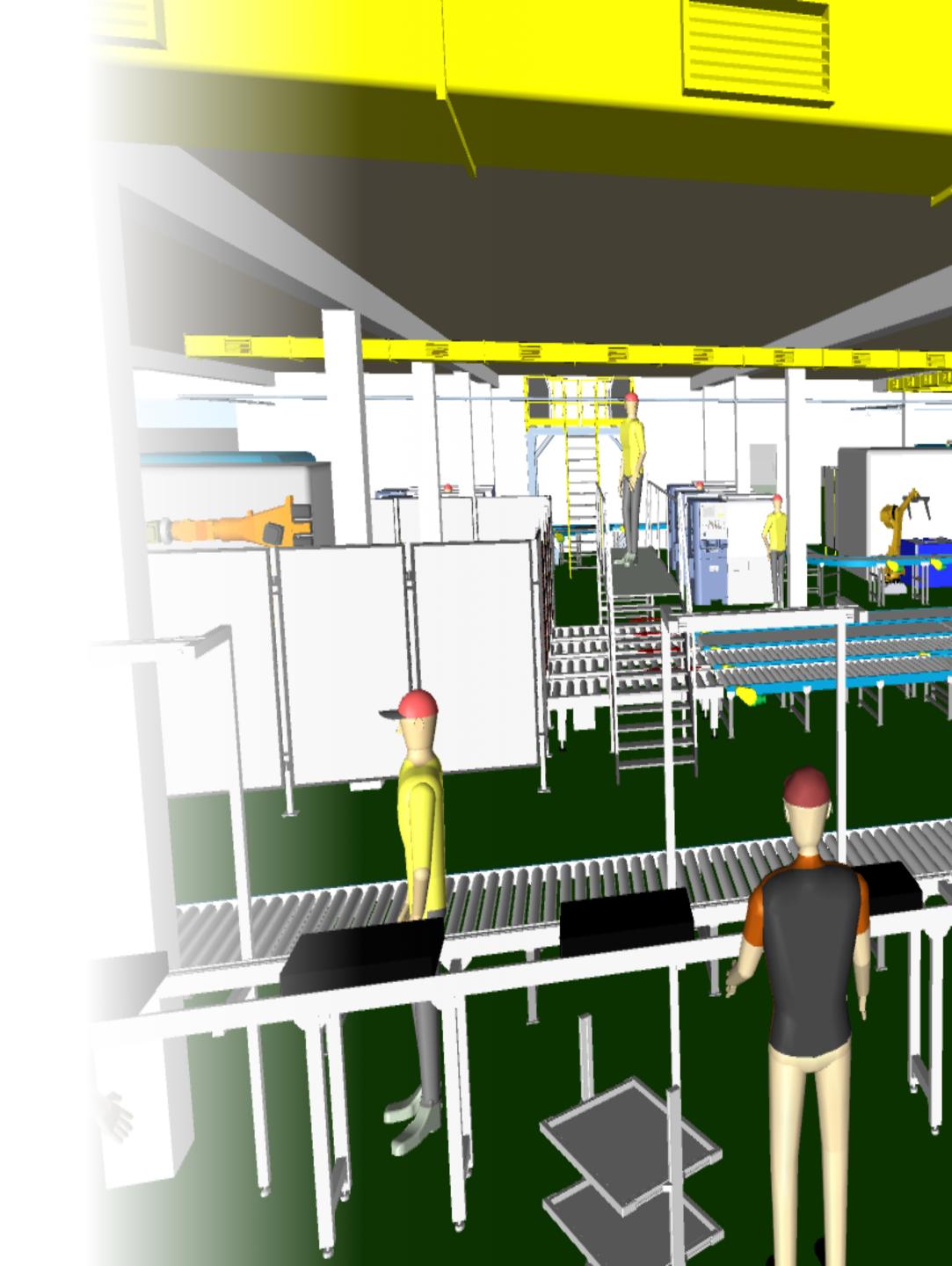
Why we need Digital Factories?





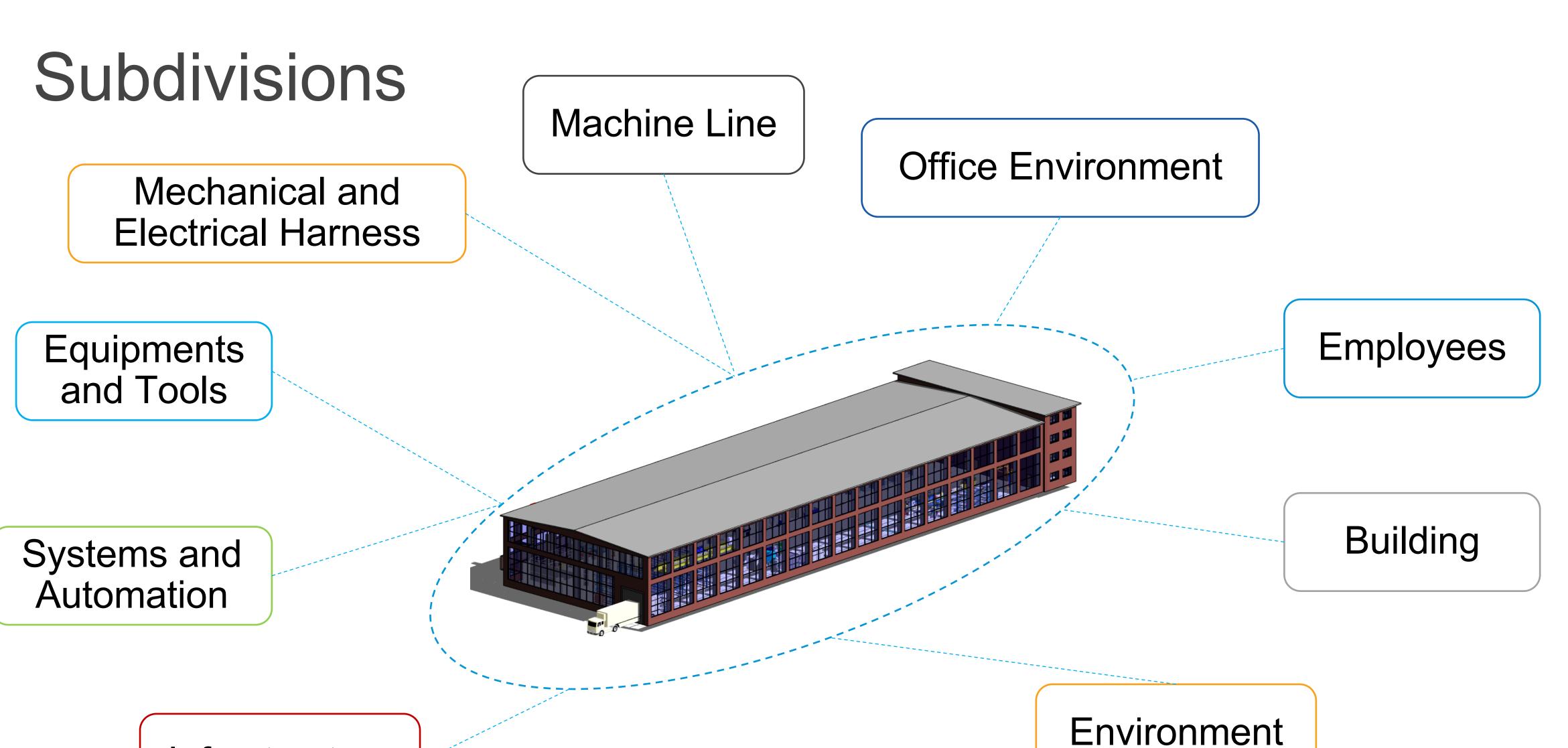
Why Digital Factories?

- Increasing operational efficiency
- Managing layout digitally
- Establishing new production workflows
- Defining risky places in line
- Production flow simulation
- Tracking production via IoT



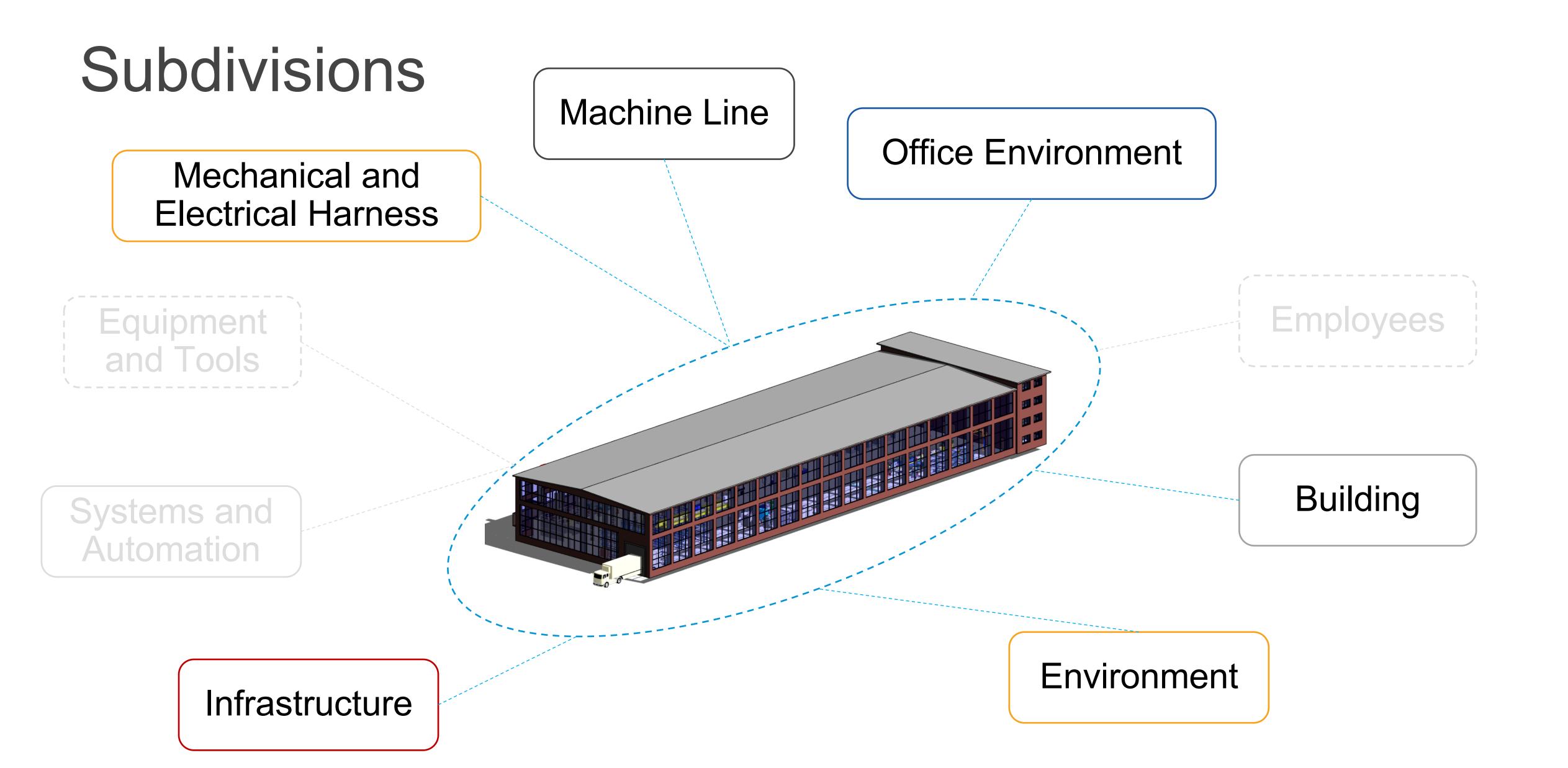
Processes





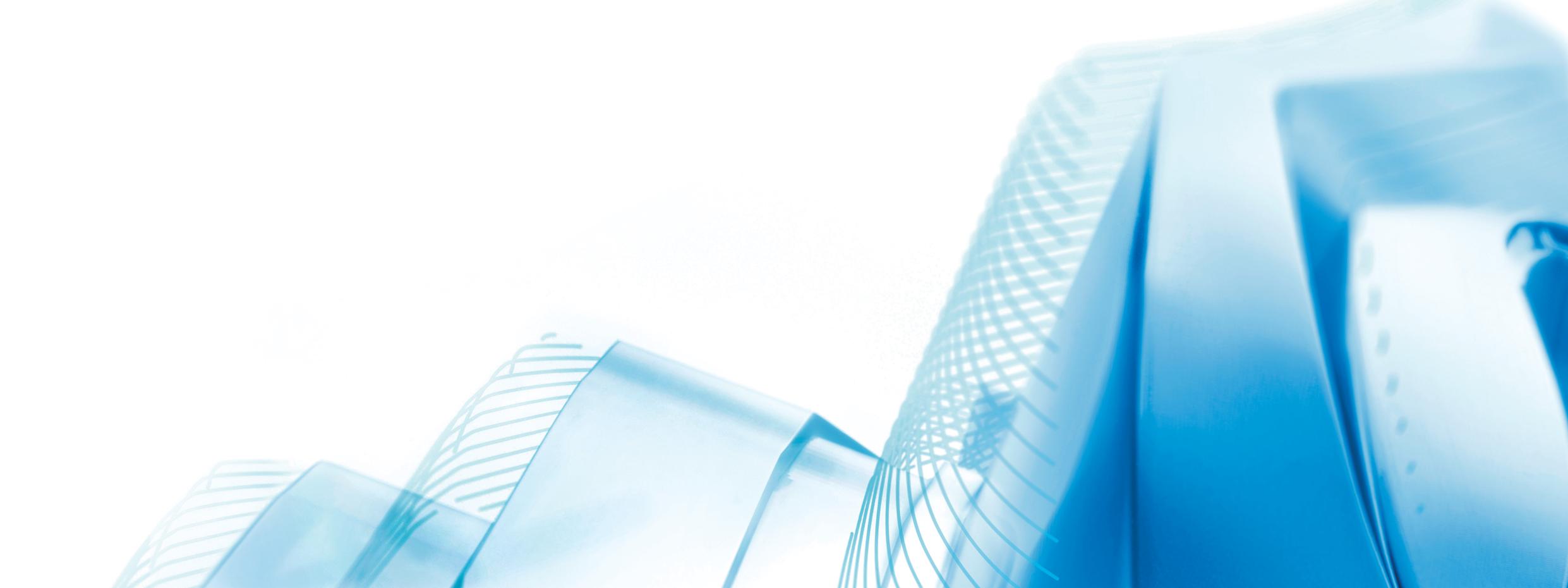
Infrastructure



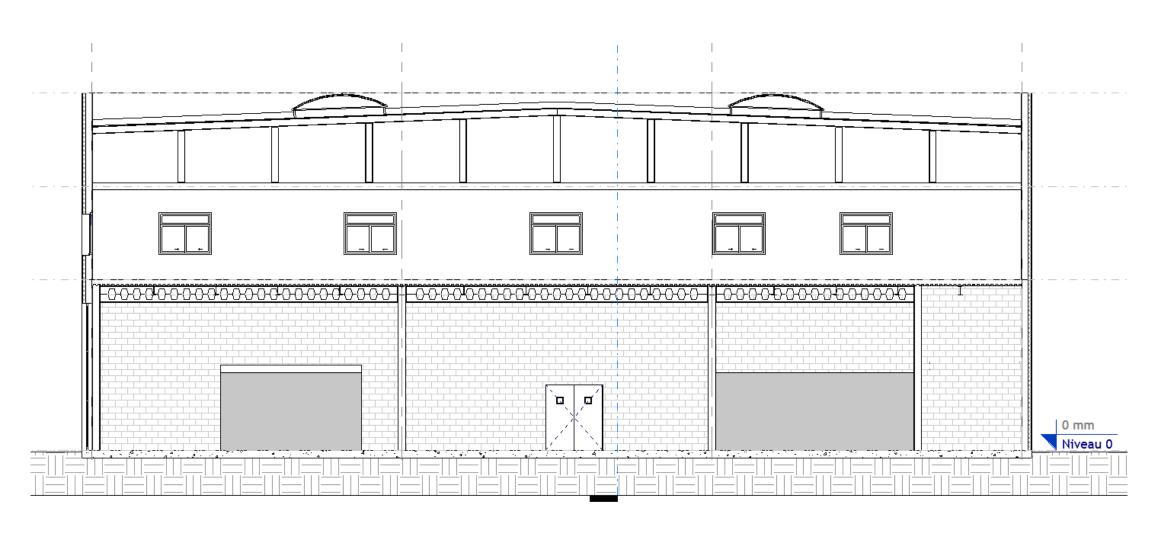


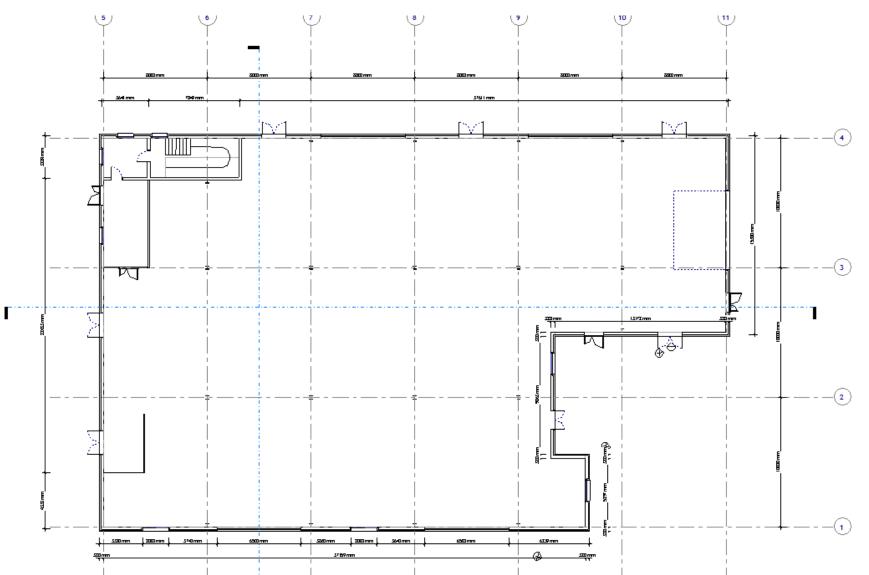


Milestones for Digital Factories

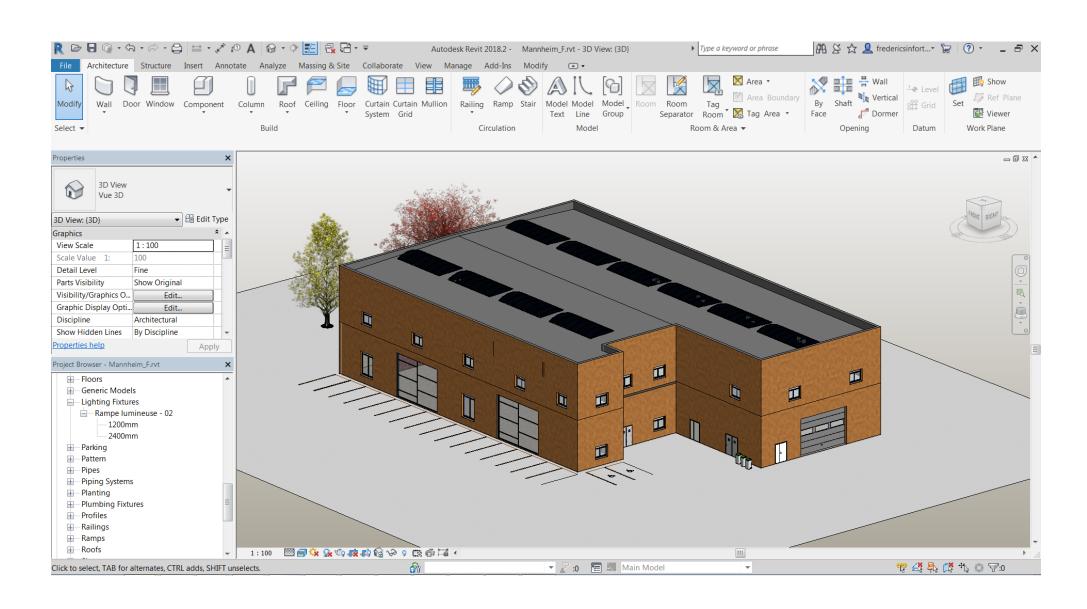


Using BIM for Builgings

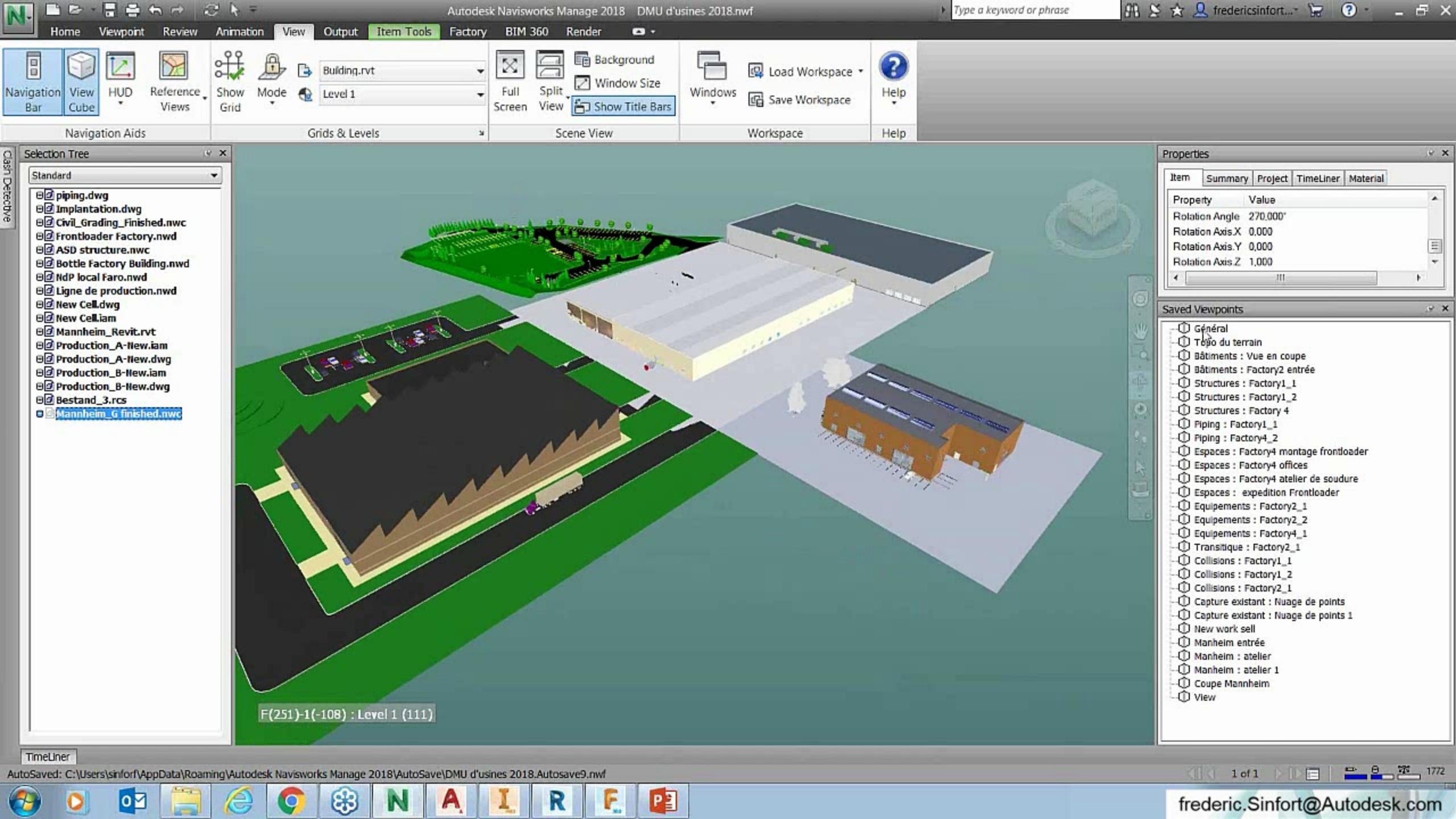




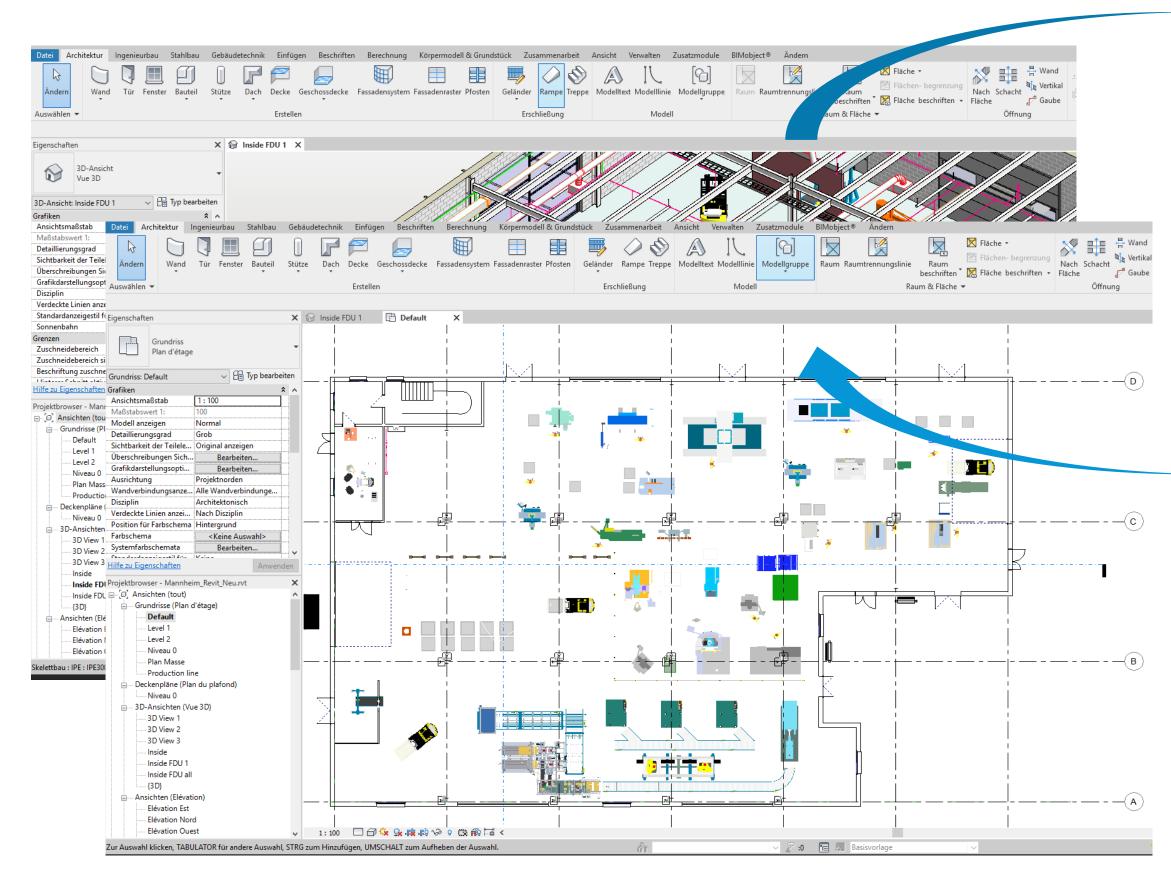




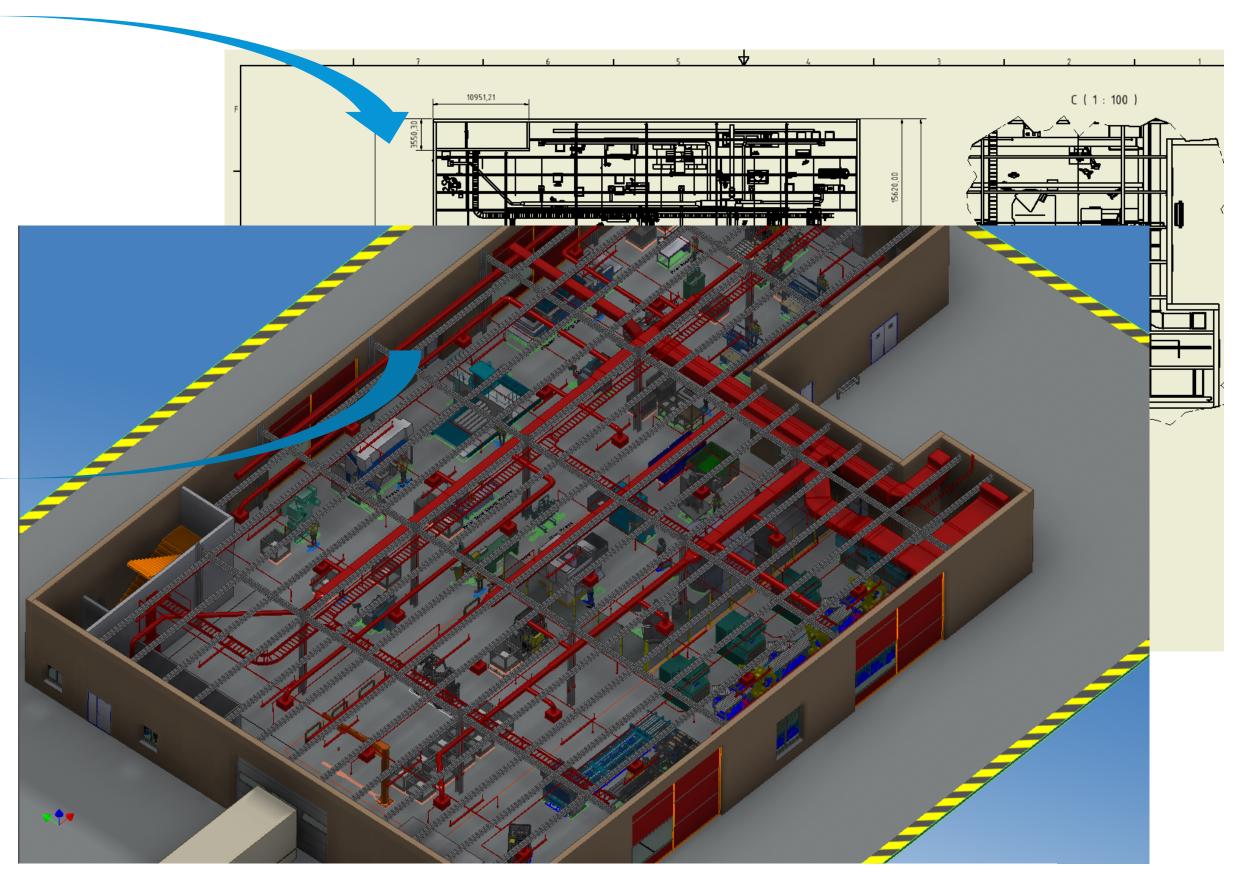




BIM and Revit are key for digital factories



Revit = Coordination Model

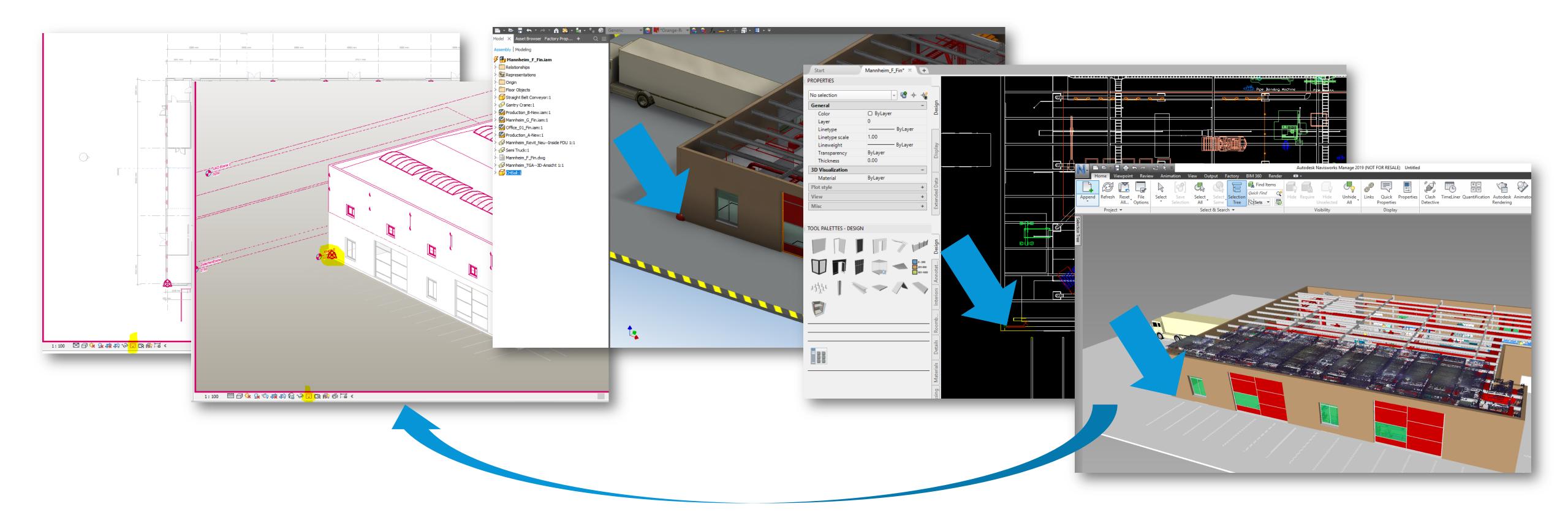


Inventor = Import



BIM and Revit are key for digital factories

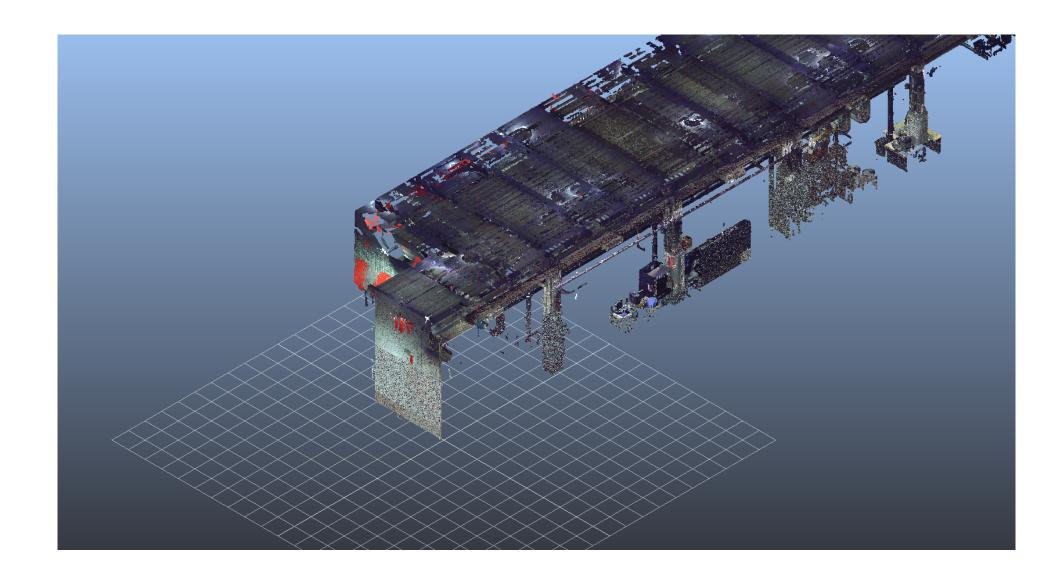
- Revit model is a center for coordination of all factory
- All sub layouts and lines use same coordination





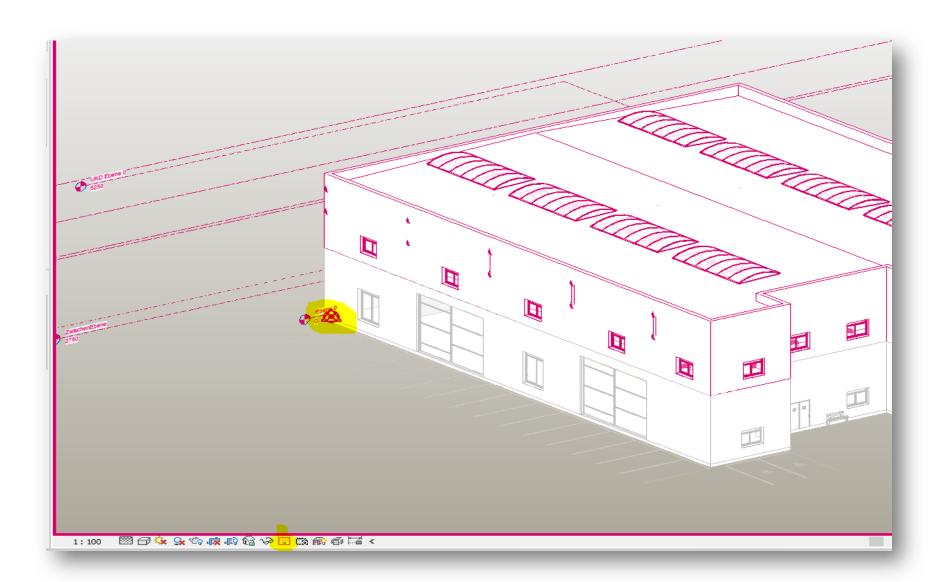
BIM and Revit are key for digital factories

Point Cloud— Origin



Scanned point was origin

Revit – Origin

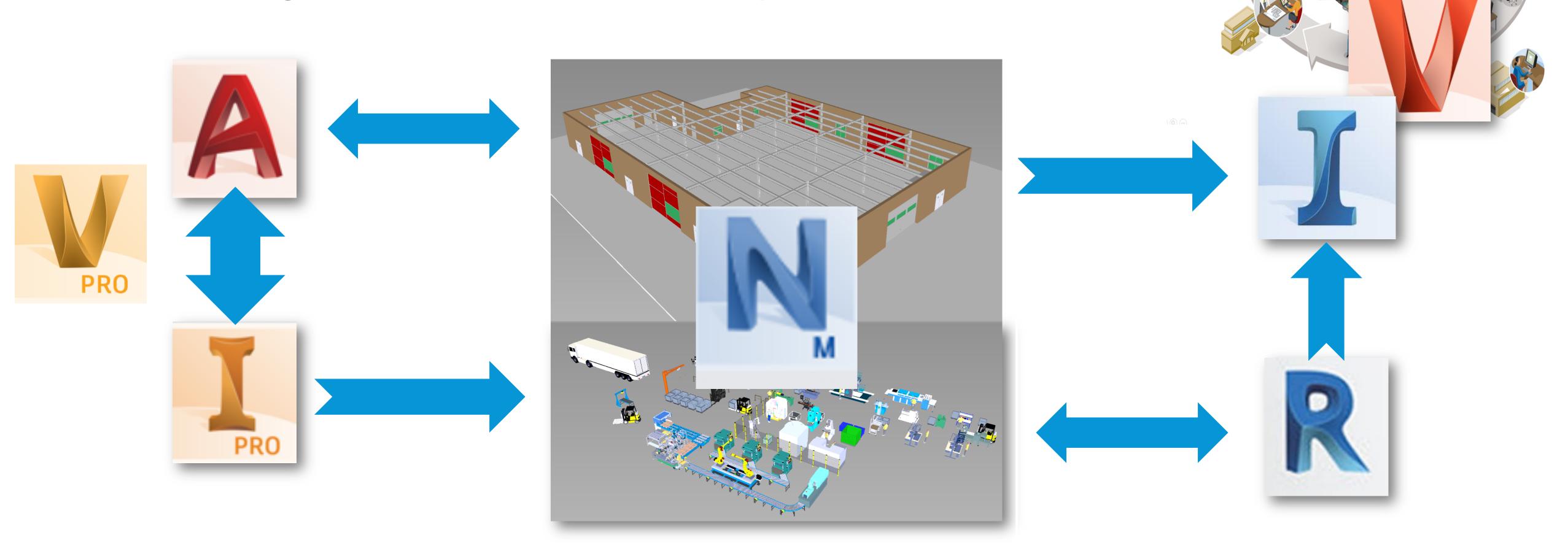


In Revit model design base point was origin



Collaboration through diciplines

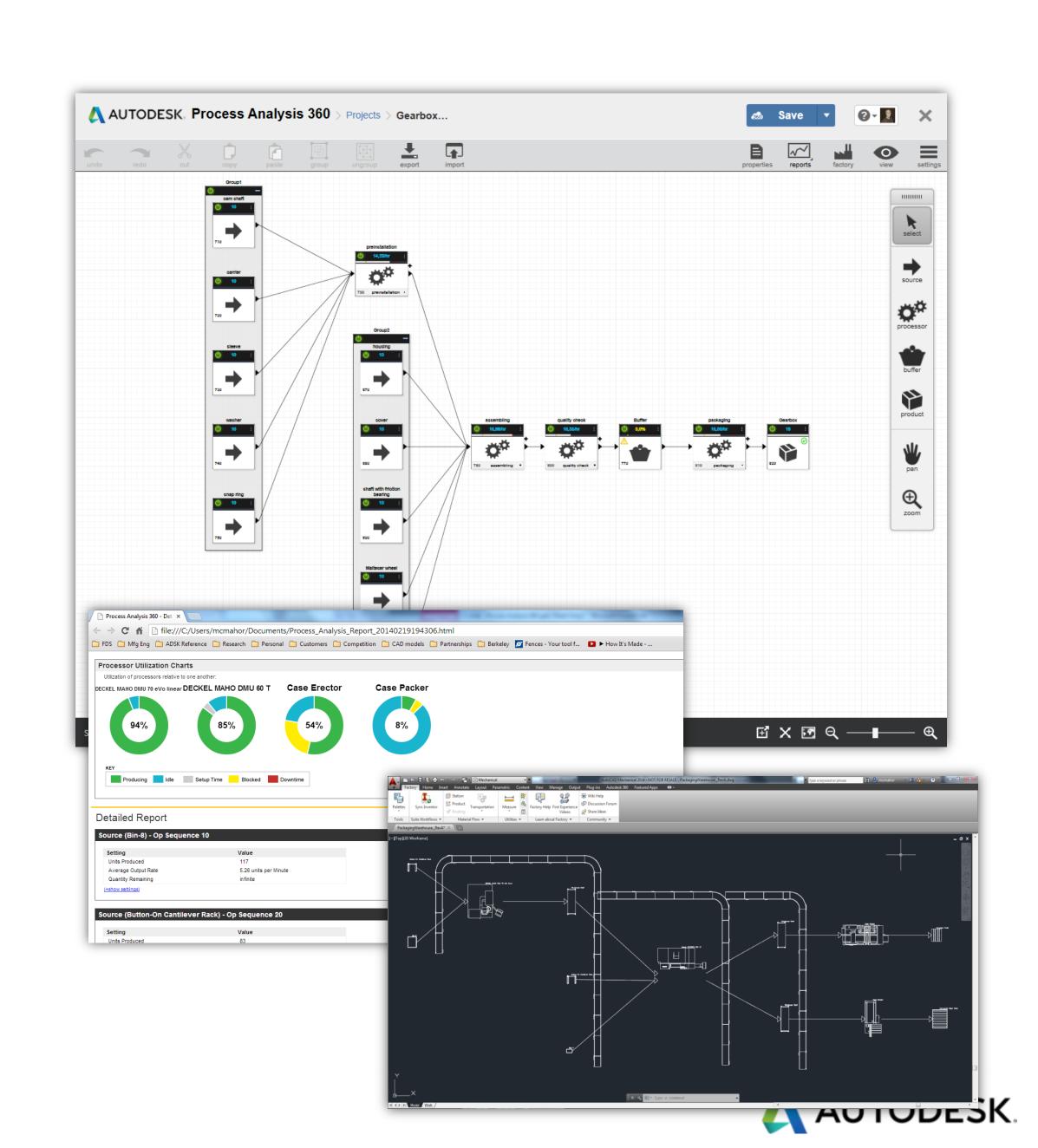
Collecting all data via Navisworks for comparision

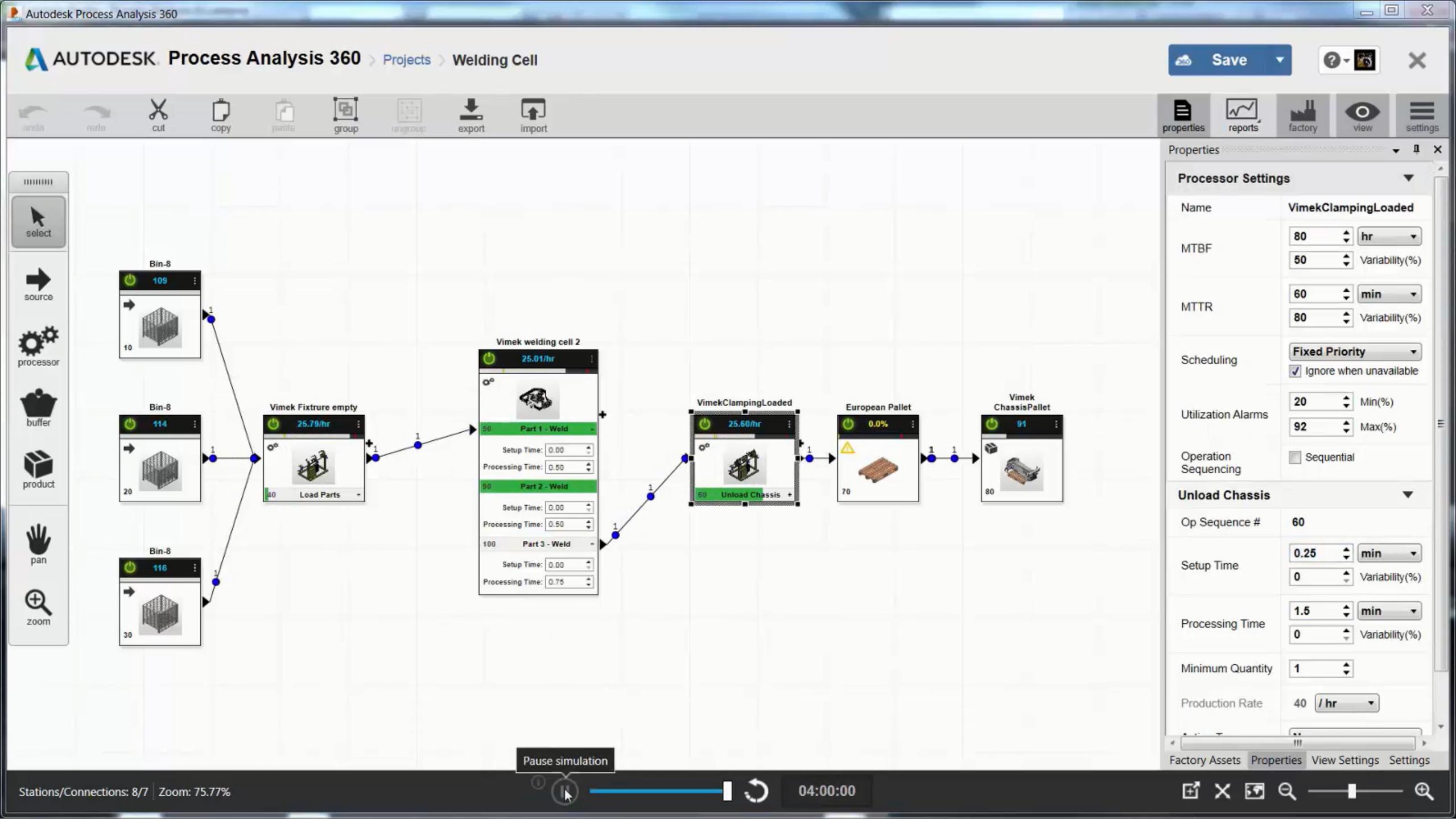


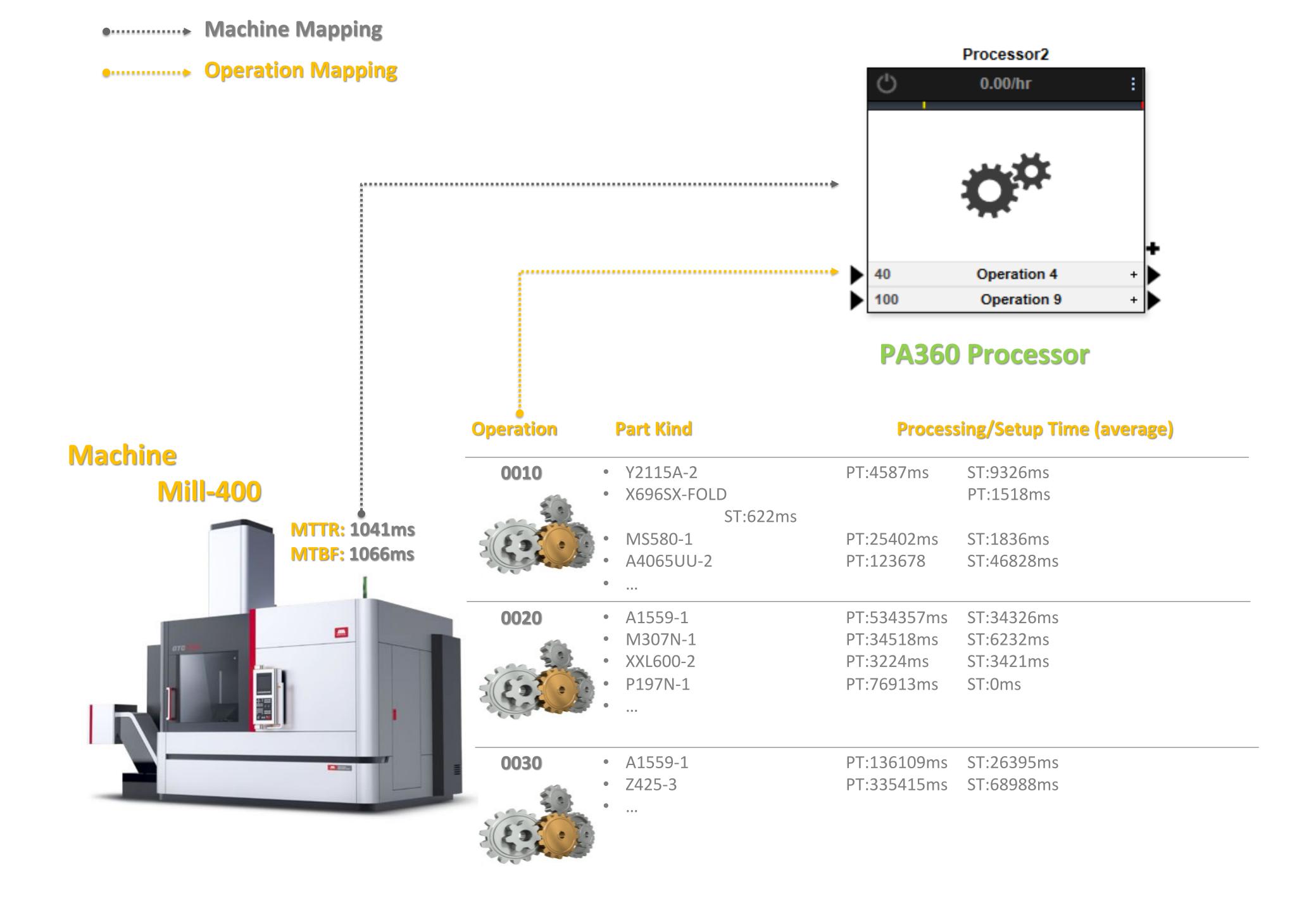


Defining Process

- Design and simulate
- Find bottlenecks
- Calculate late time
- Improve your processes
- Export as dwg







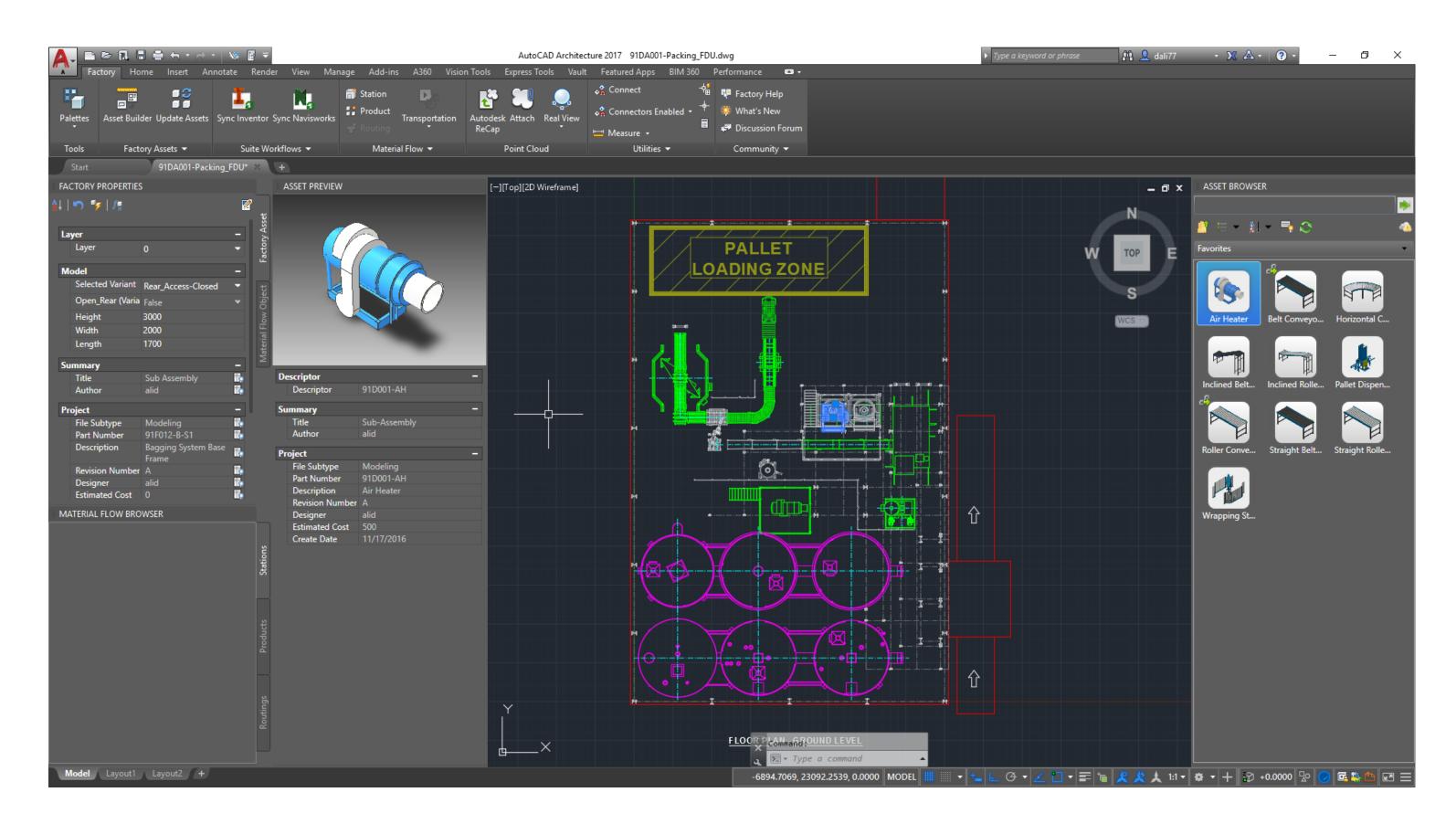
Layout Management

Prodactivity Tools

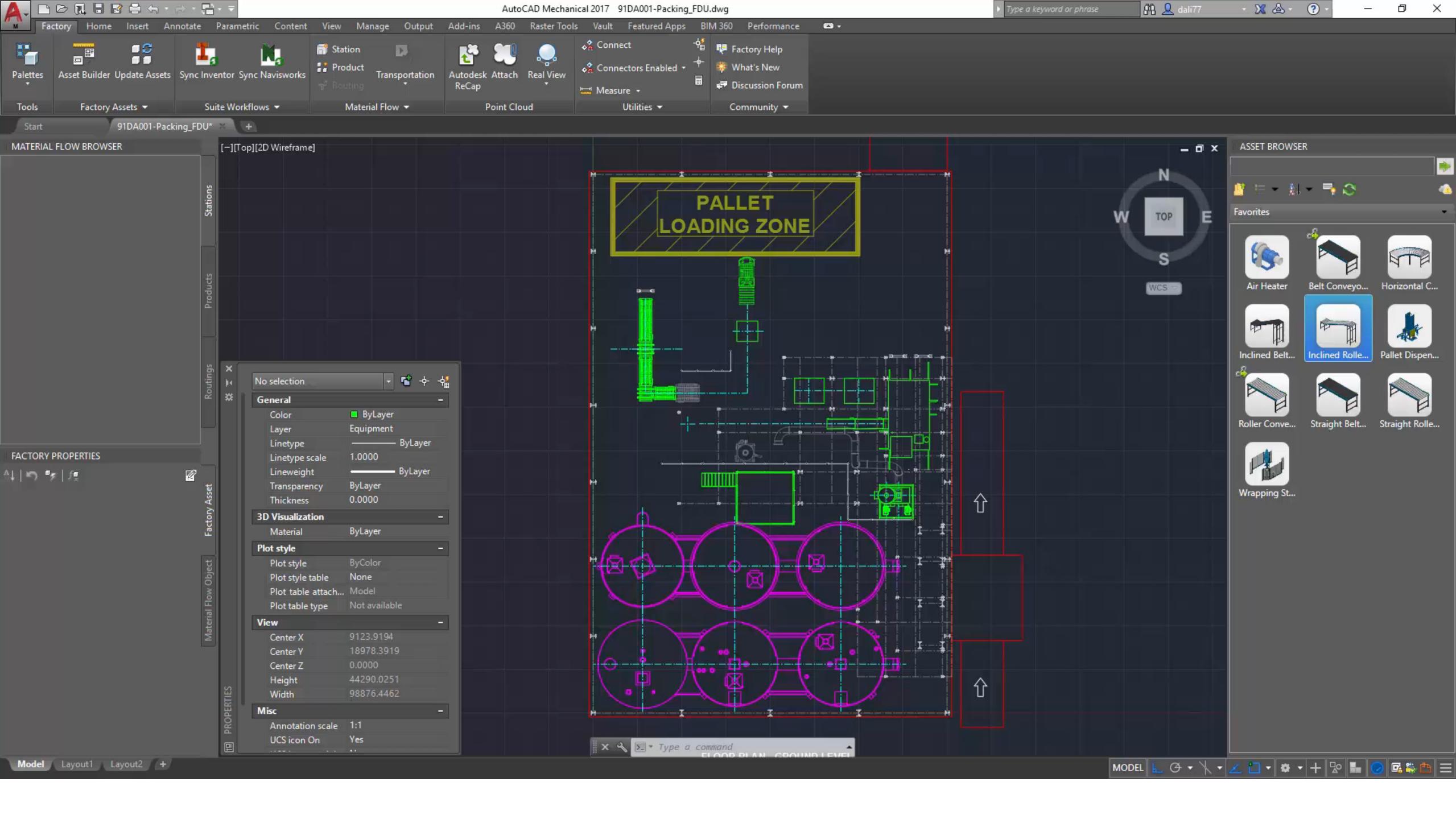
- Factory Assets
- Material Flow Simulation
- Smart Connections

Before to study

- Import layouts
- Convert files
- Create assets from blocks

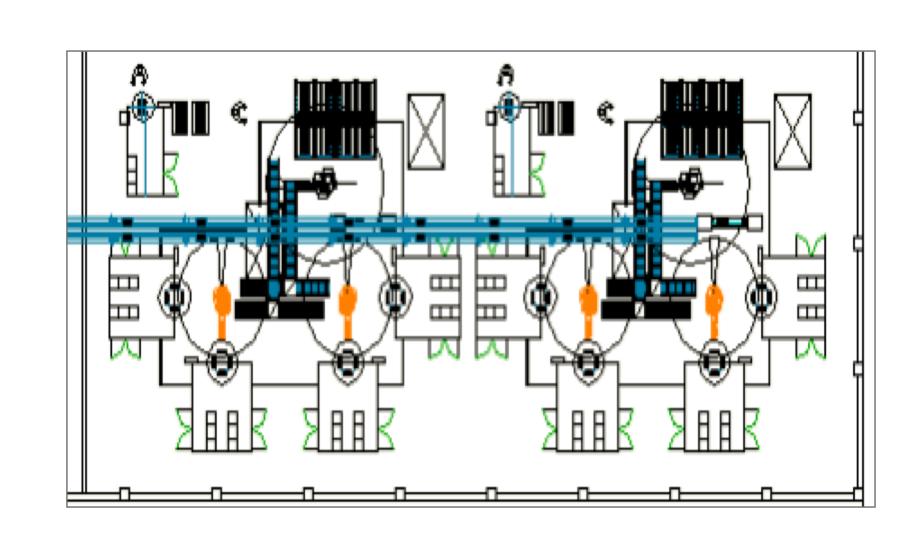


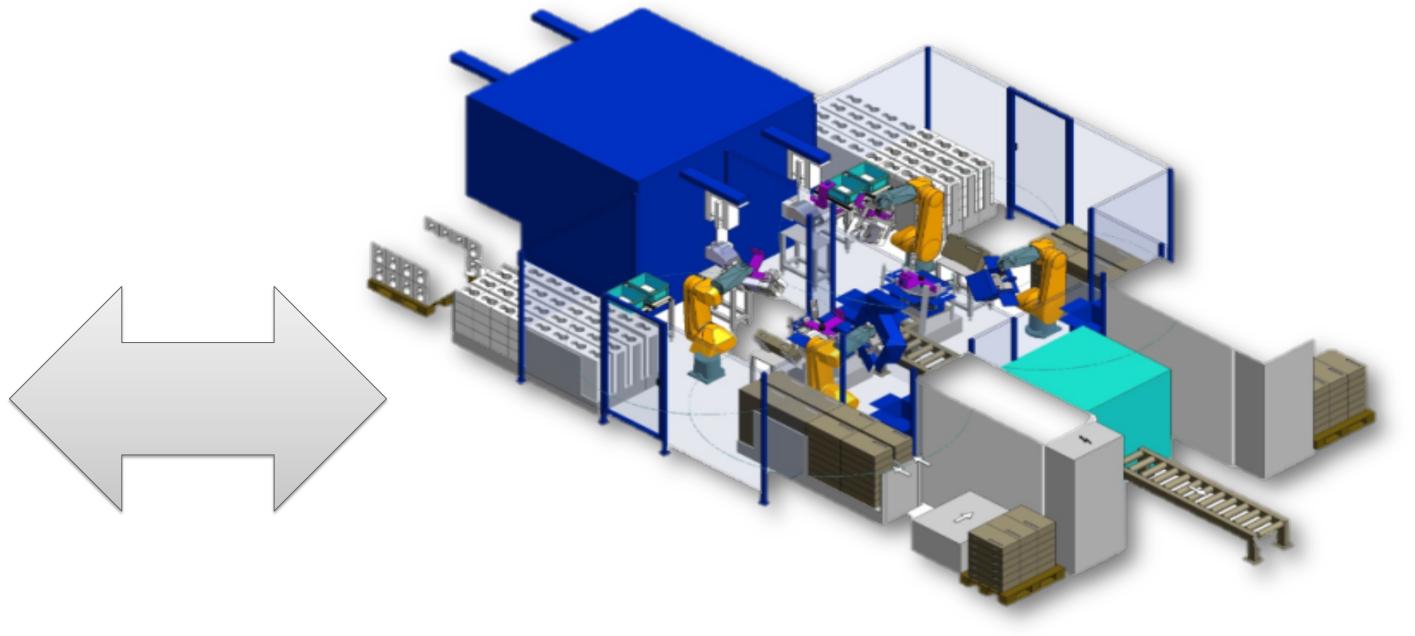




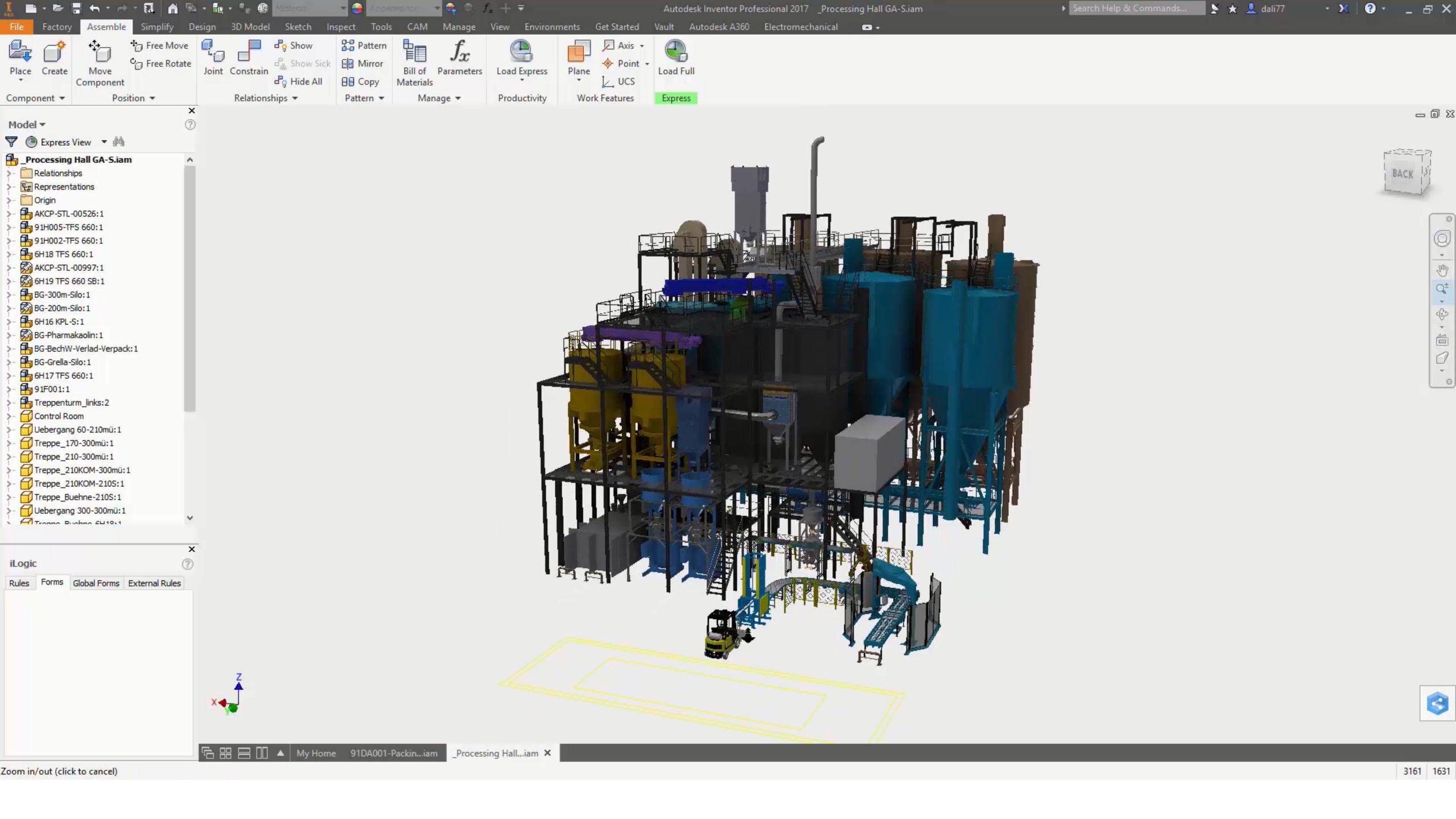
3D Modeling

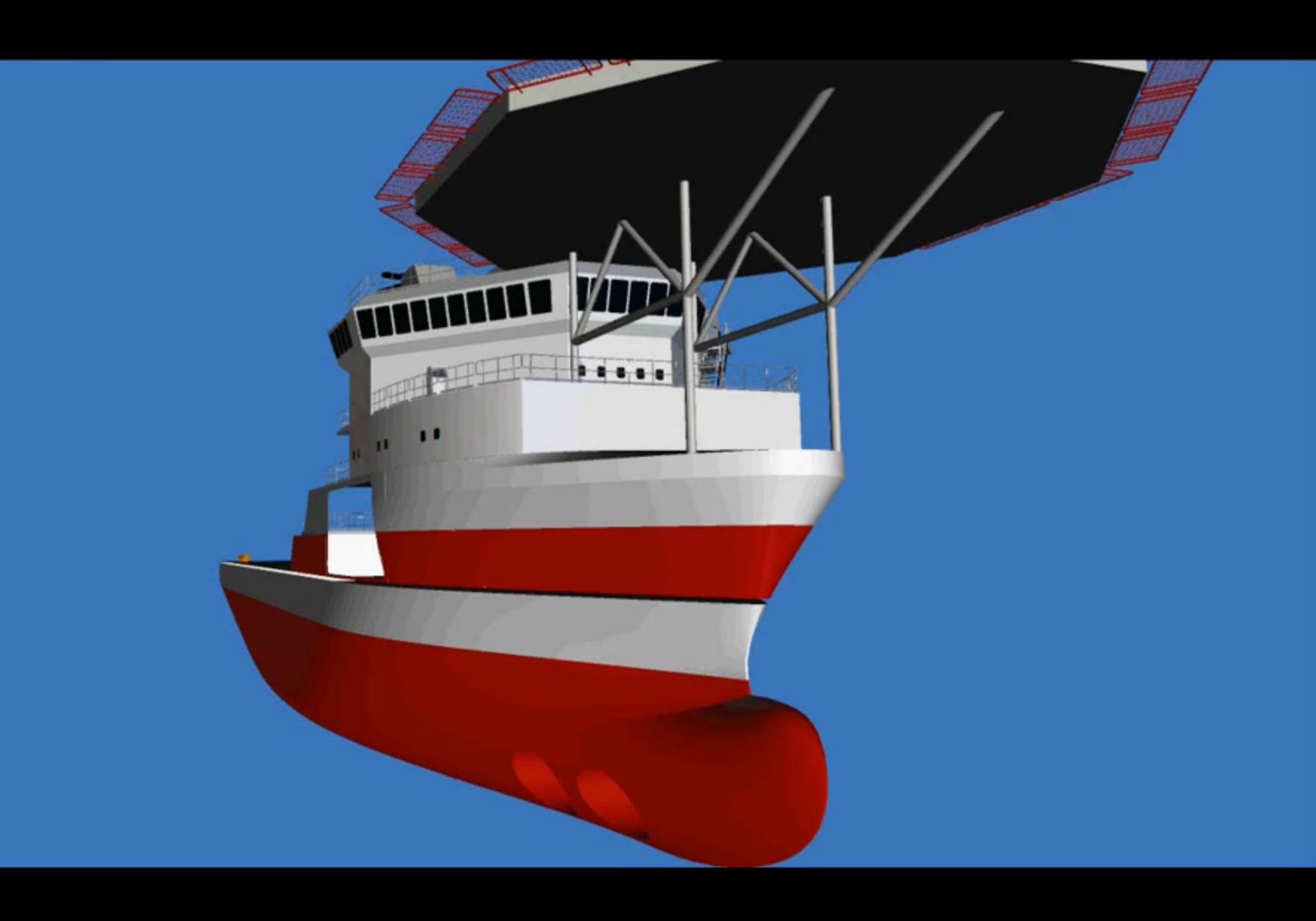
- 2D layout to 3D modeling
- Smart connection and link
- Review positioning
- Working with BIM





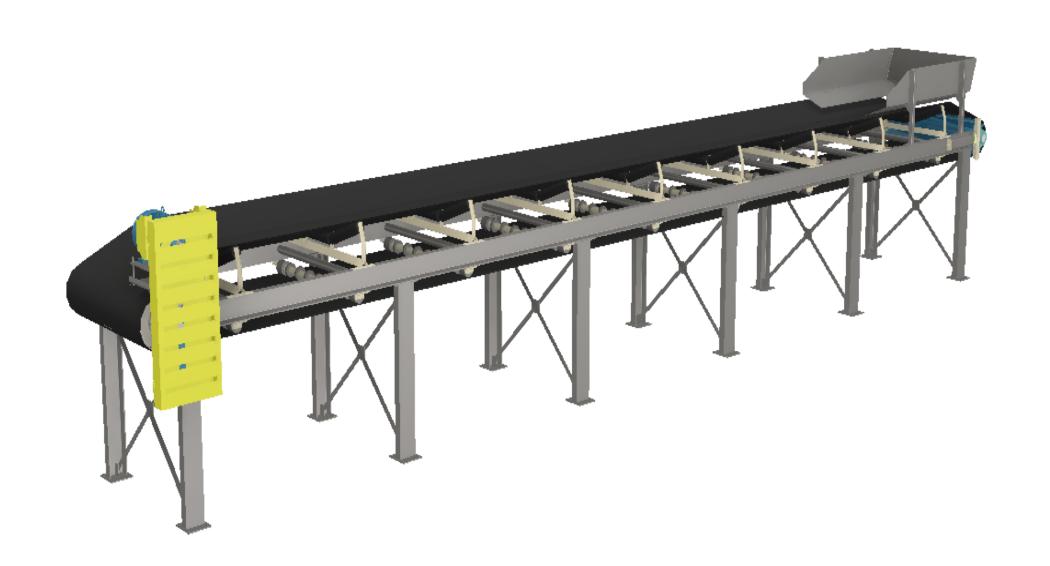


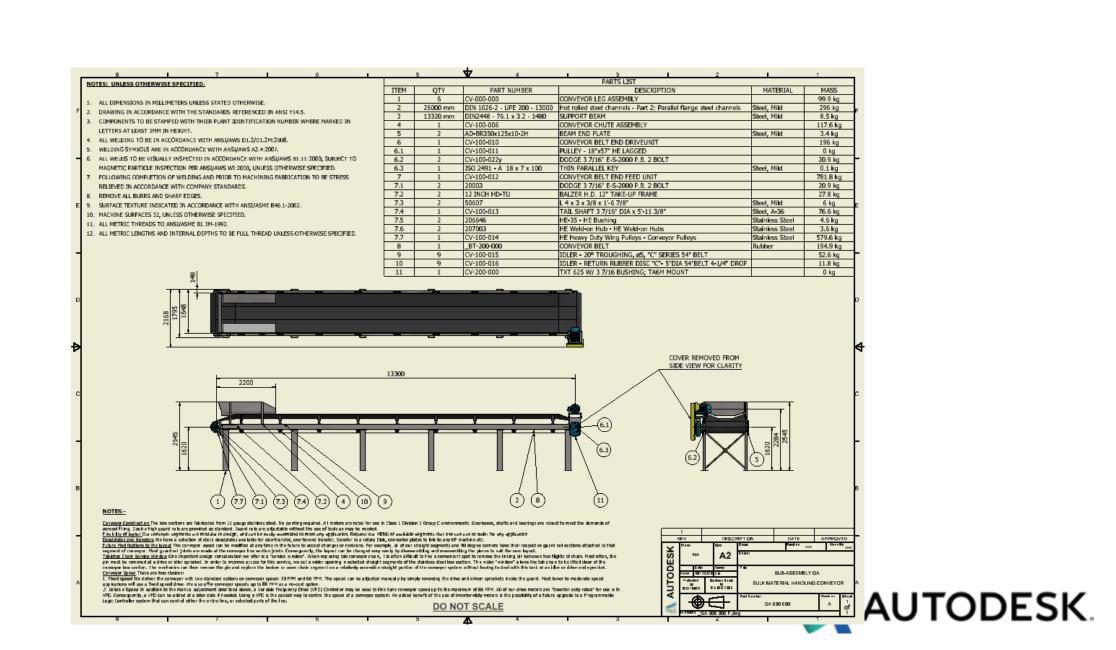


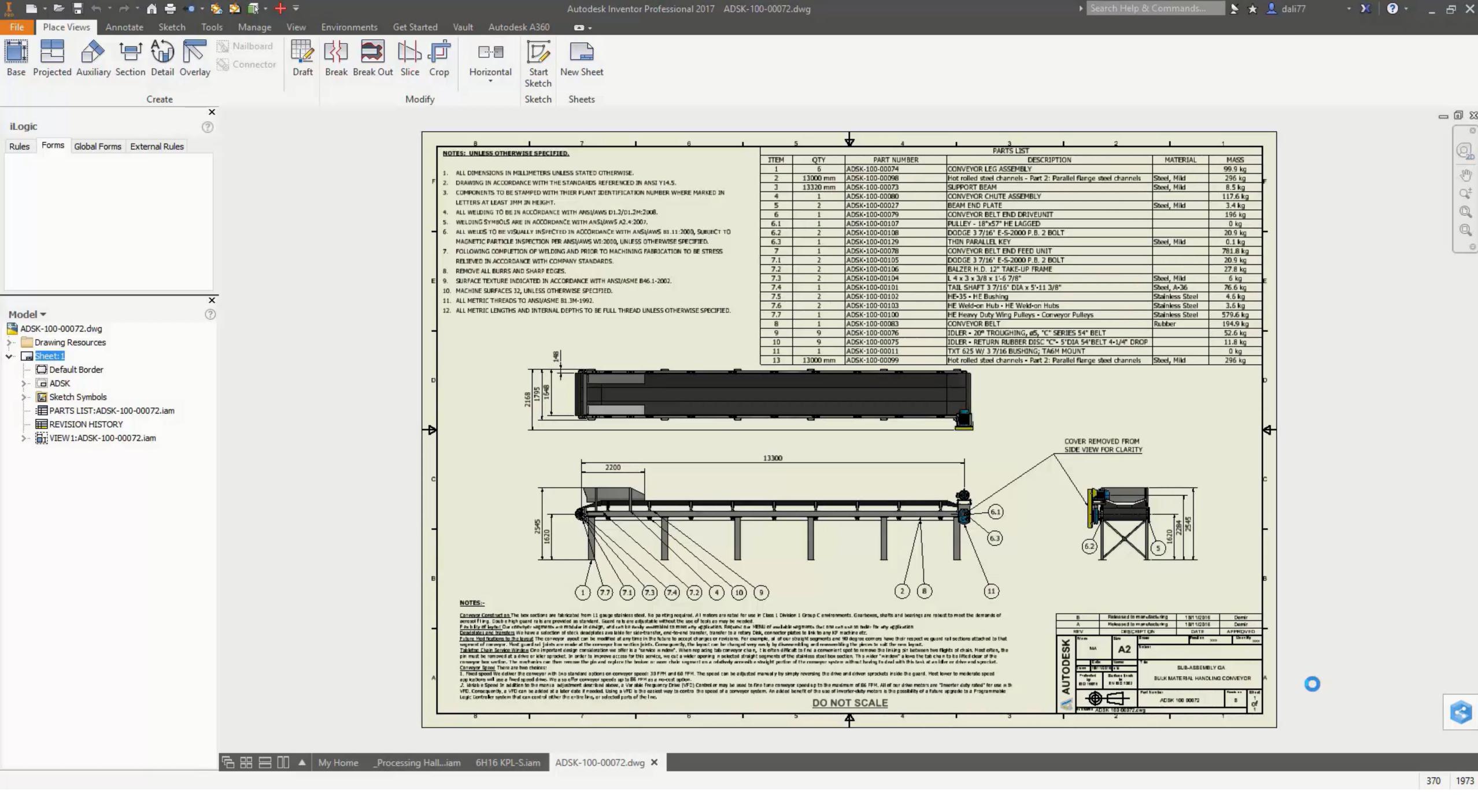


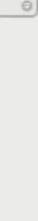
Creating Engineering Documents

- Creat complex technical drawings
- Assembly guides, maintenance documents and others











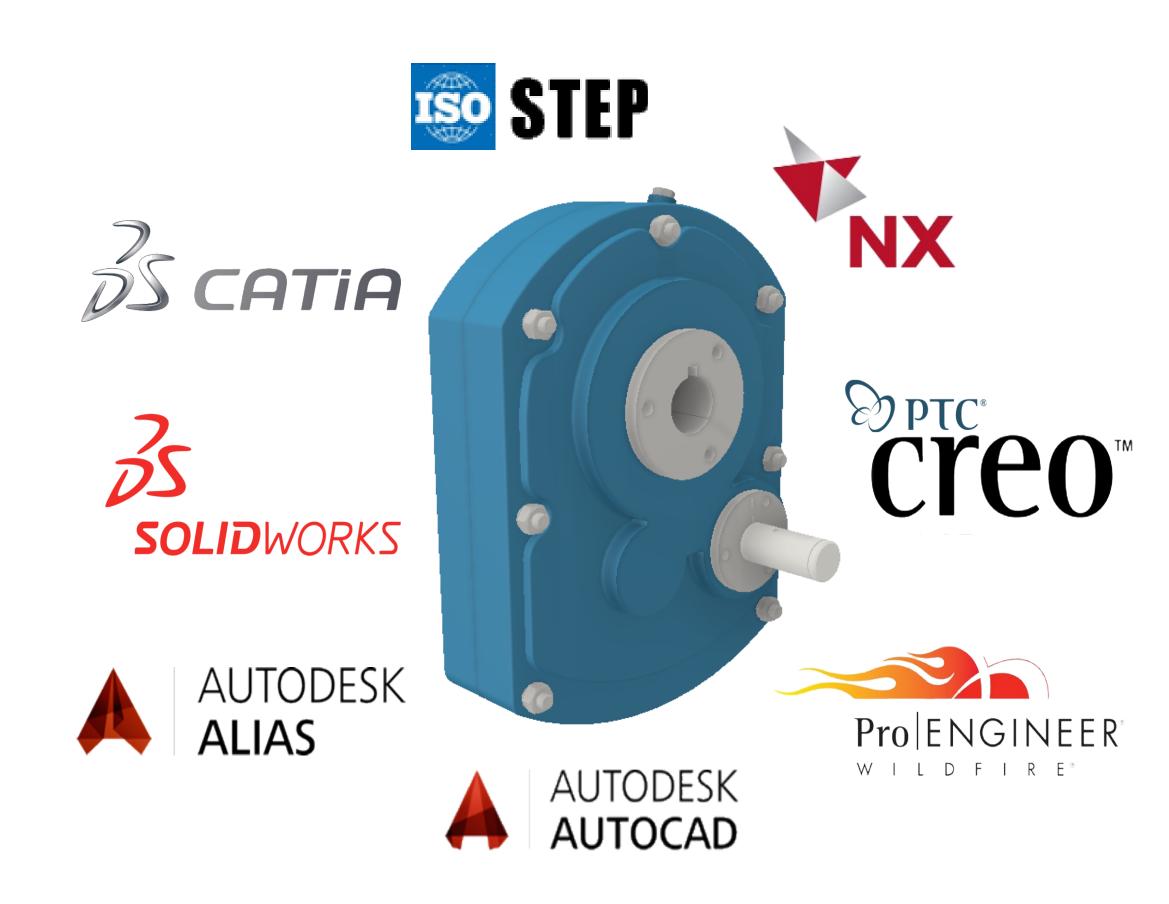
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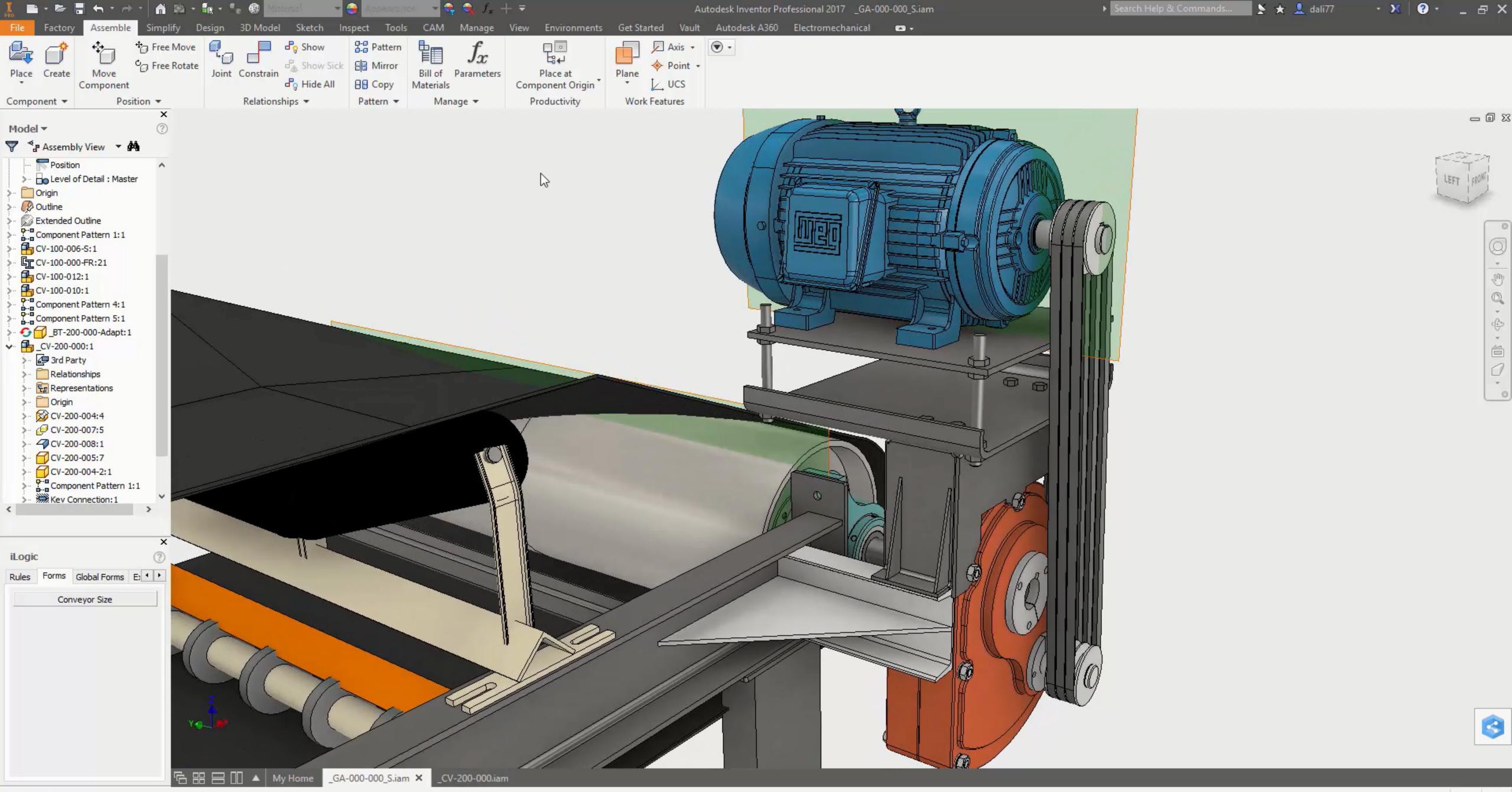
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Different File Extensions

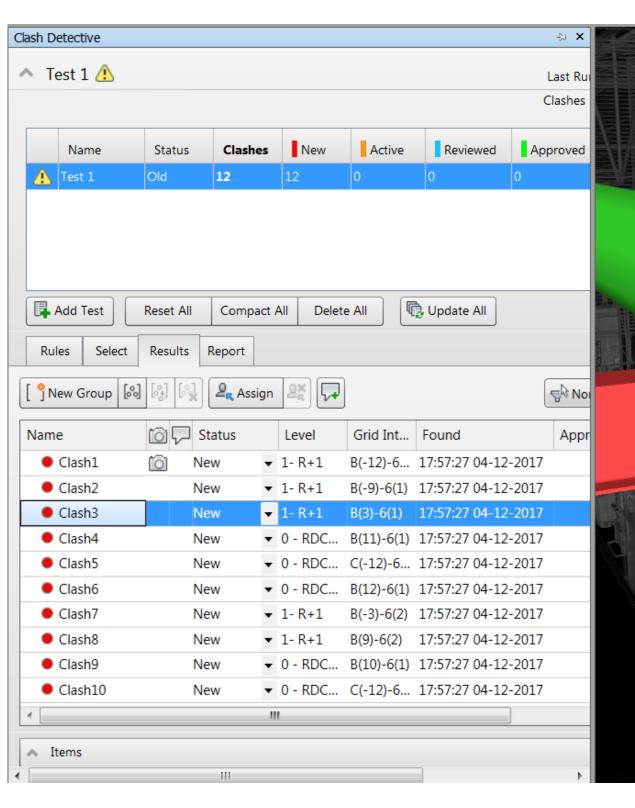
- Reduce manual file sharing
- Increase BOM

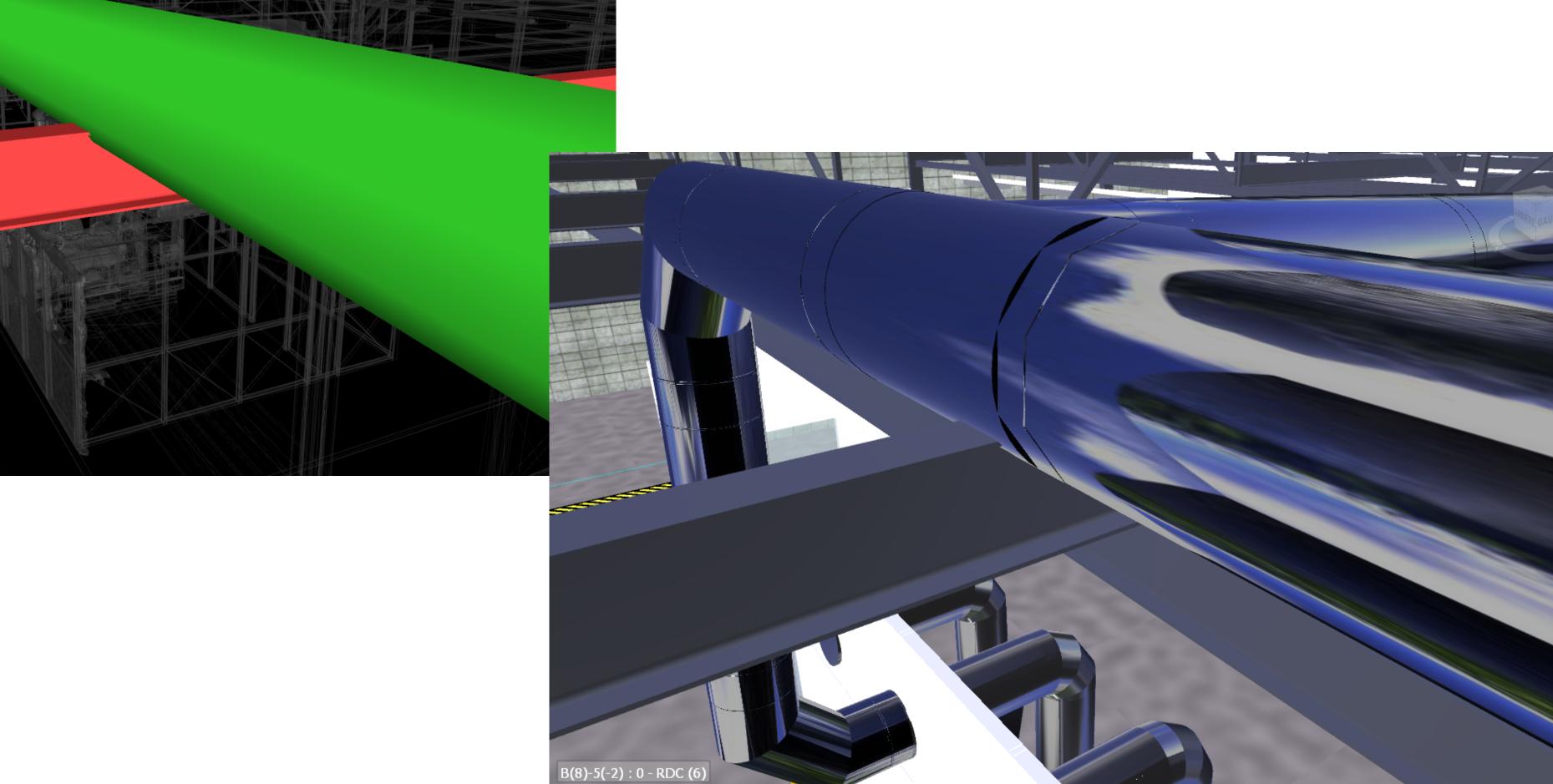


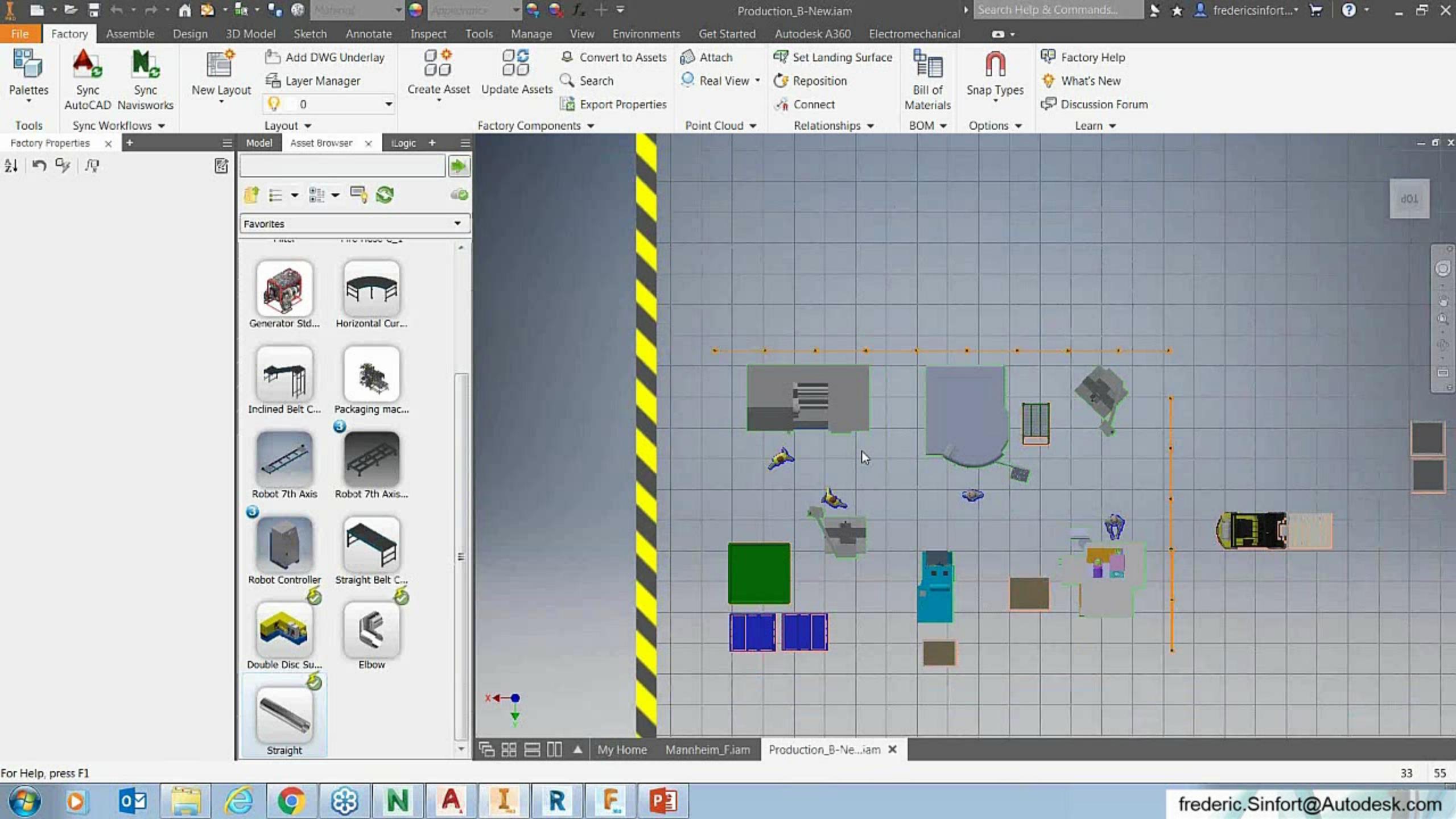


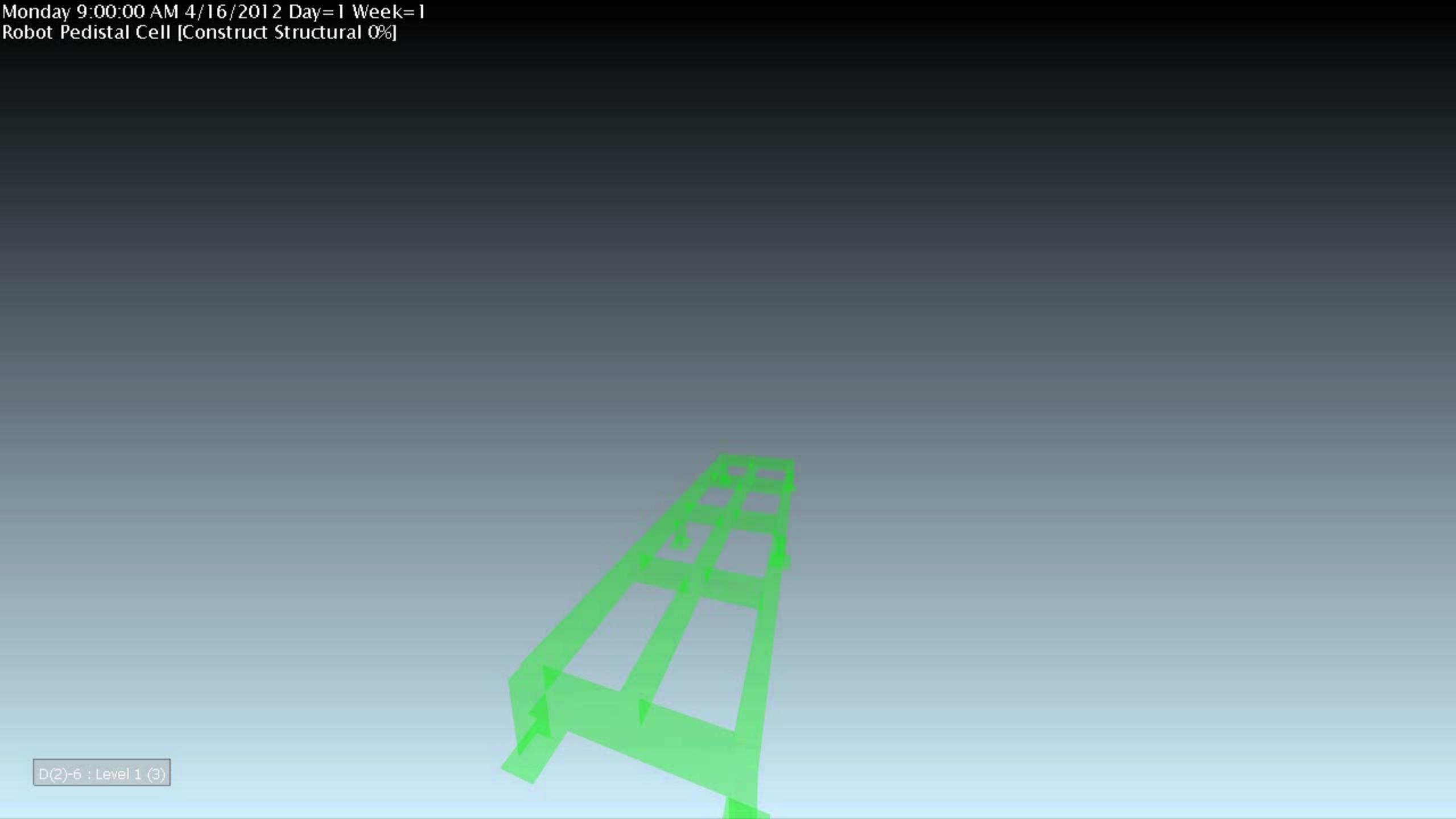


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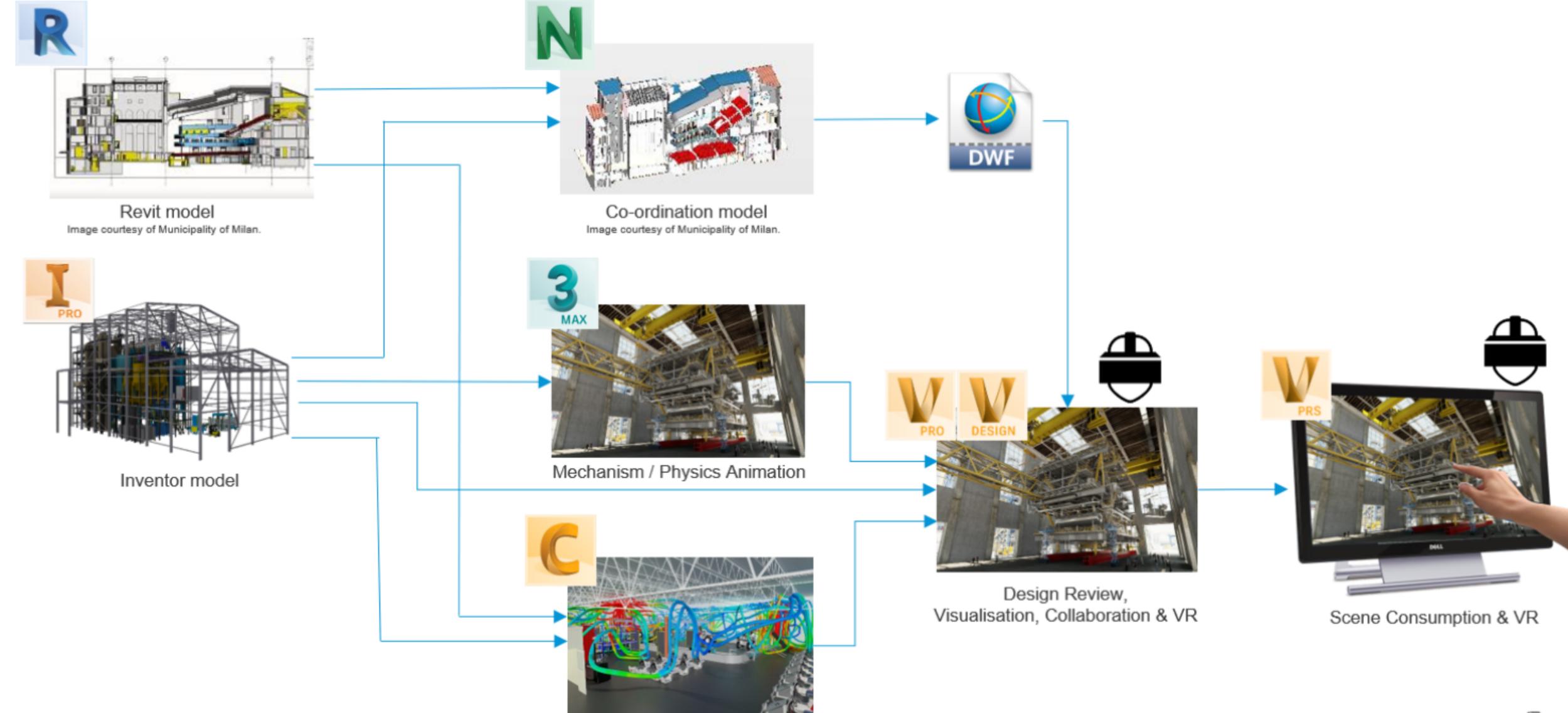






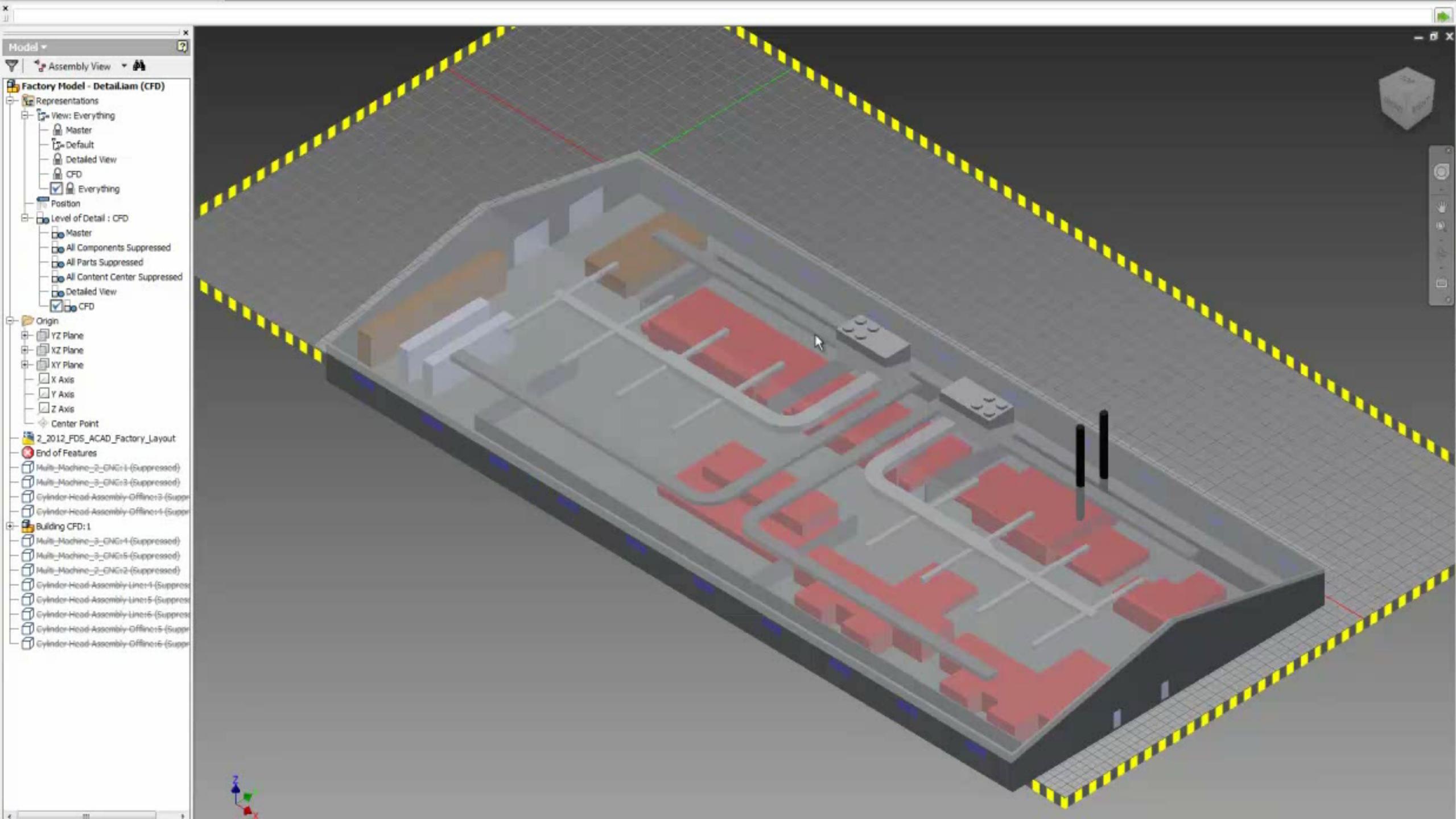


Virtual Reality



Simulation









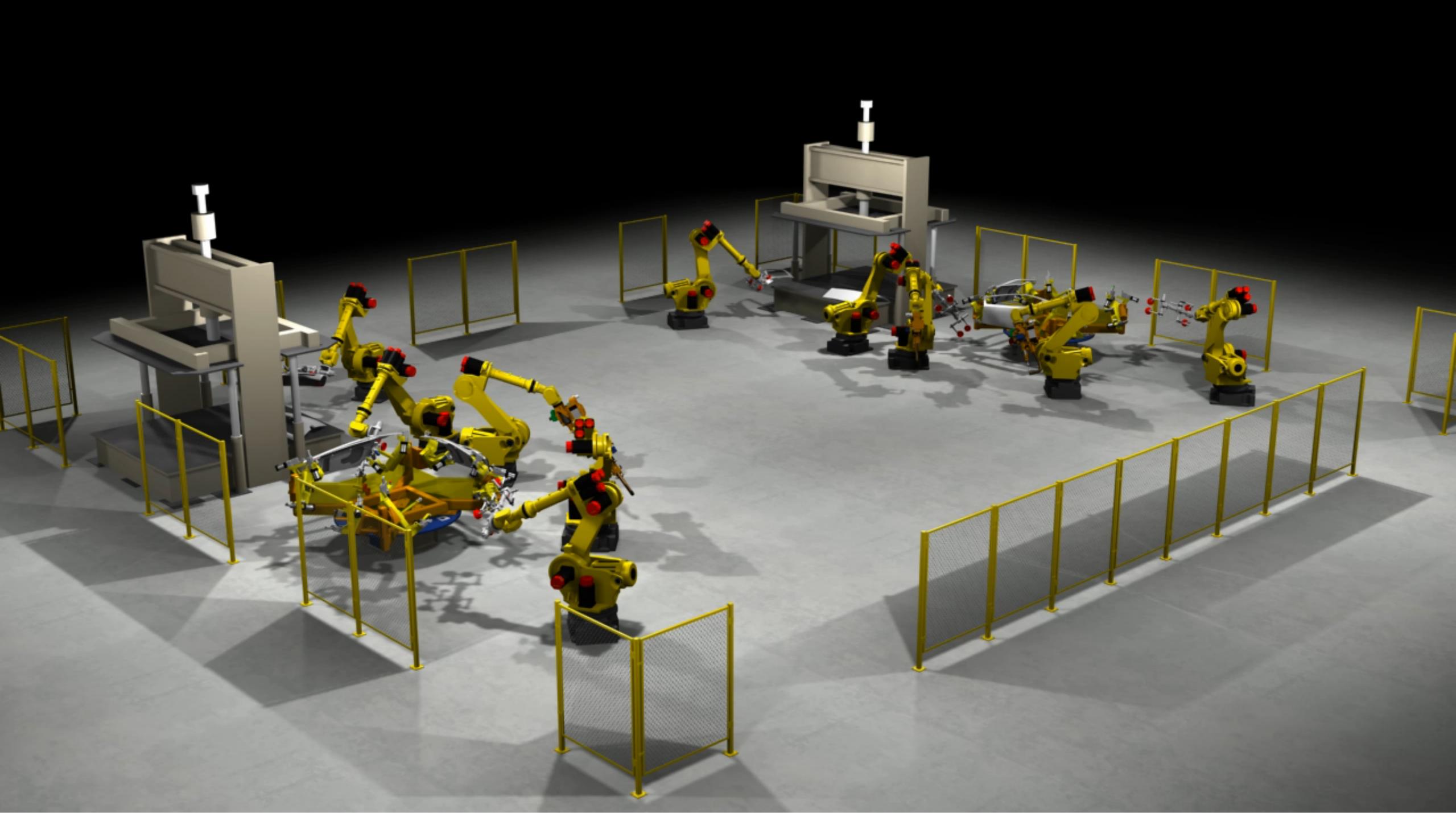


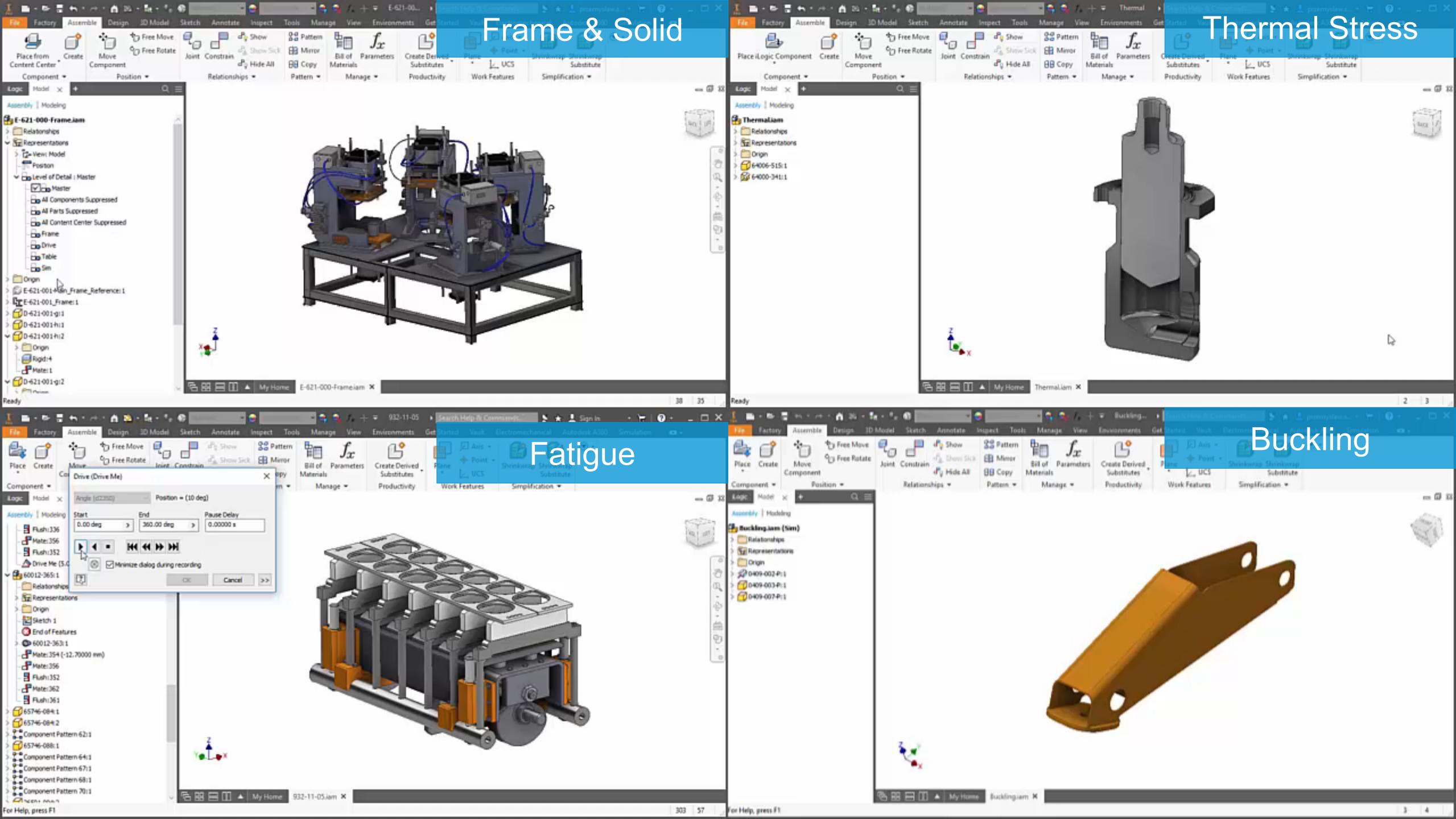
Increase Value of Data

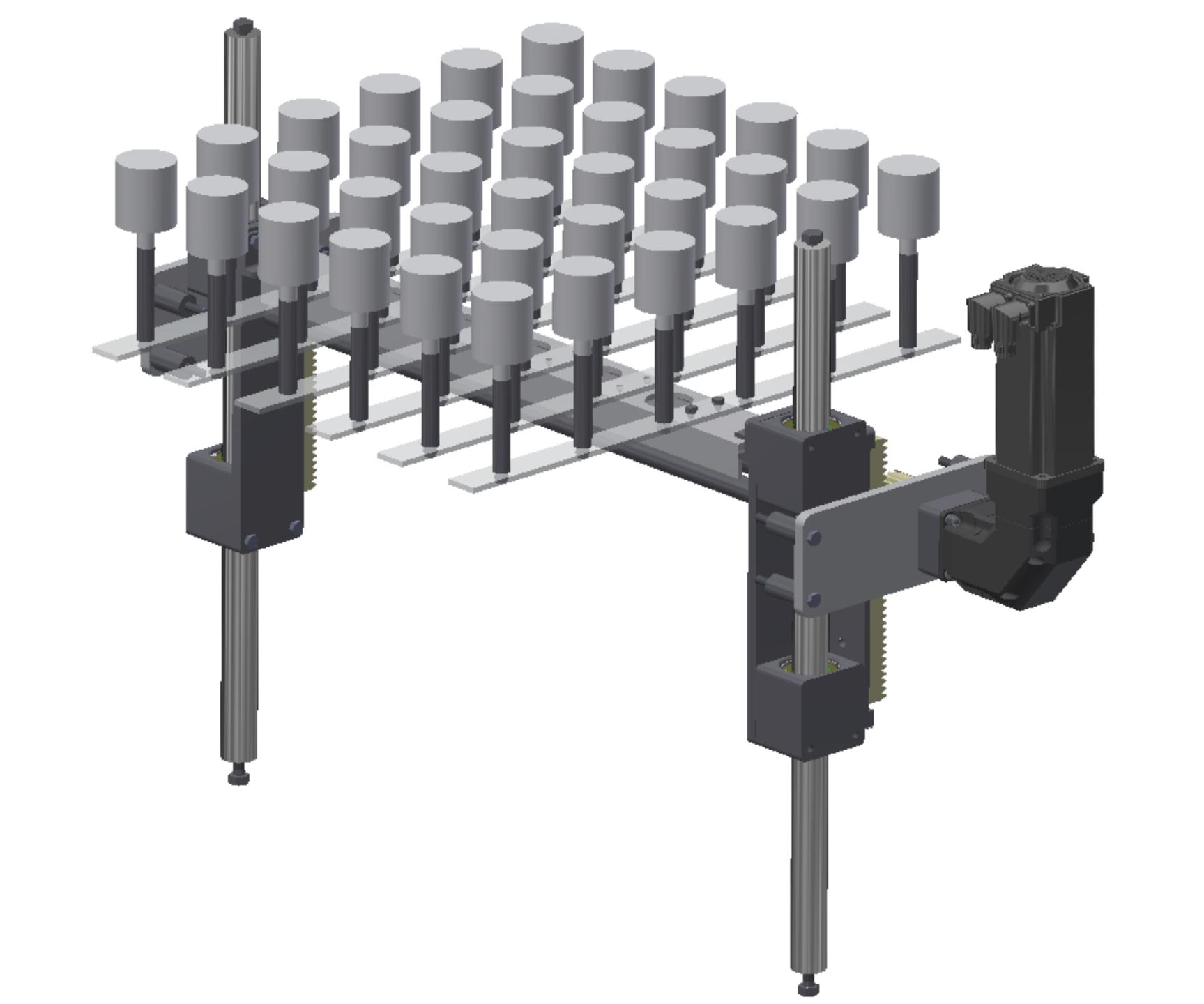
√ Fast decisions

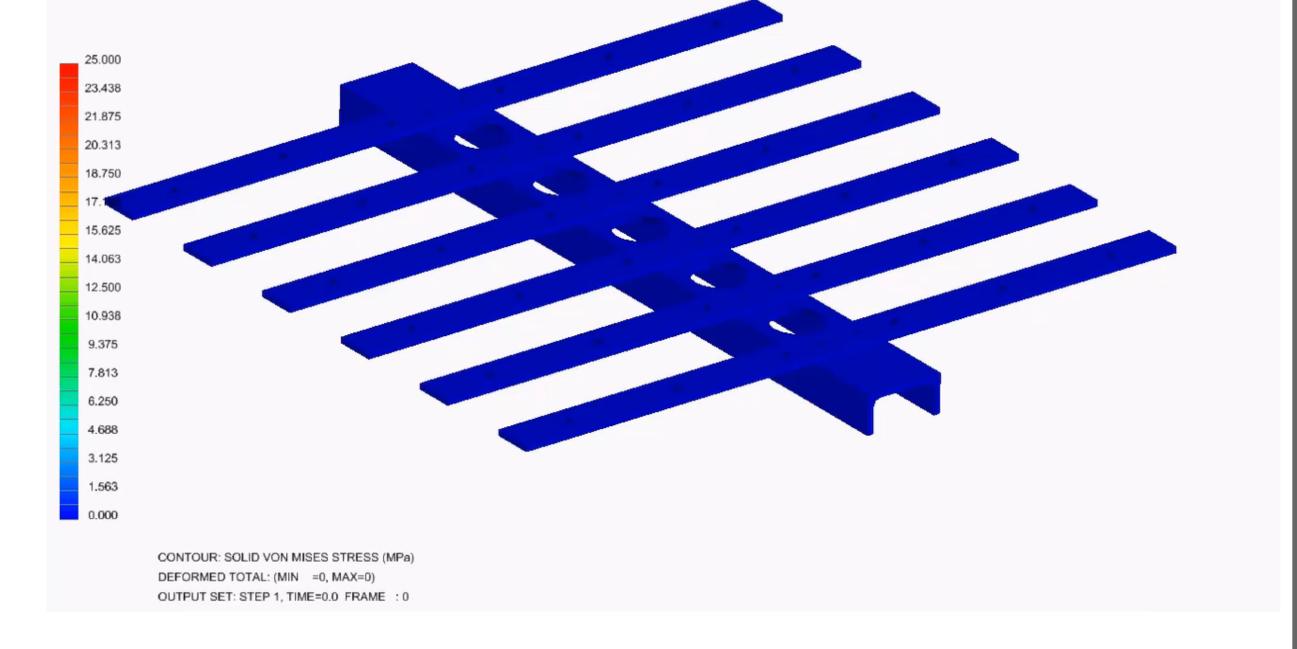
✓ Experiance likewise real



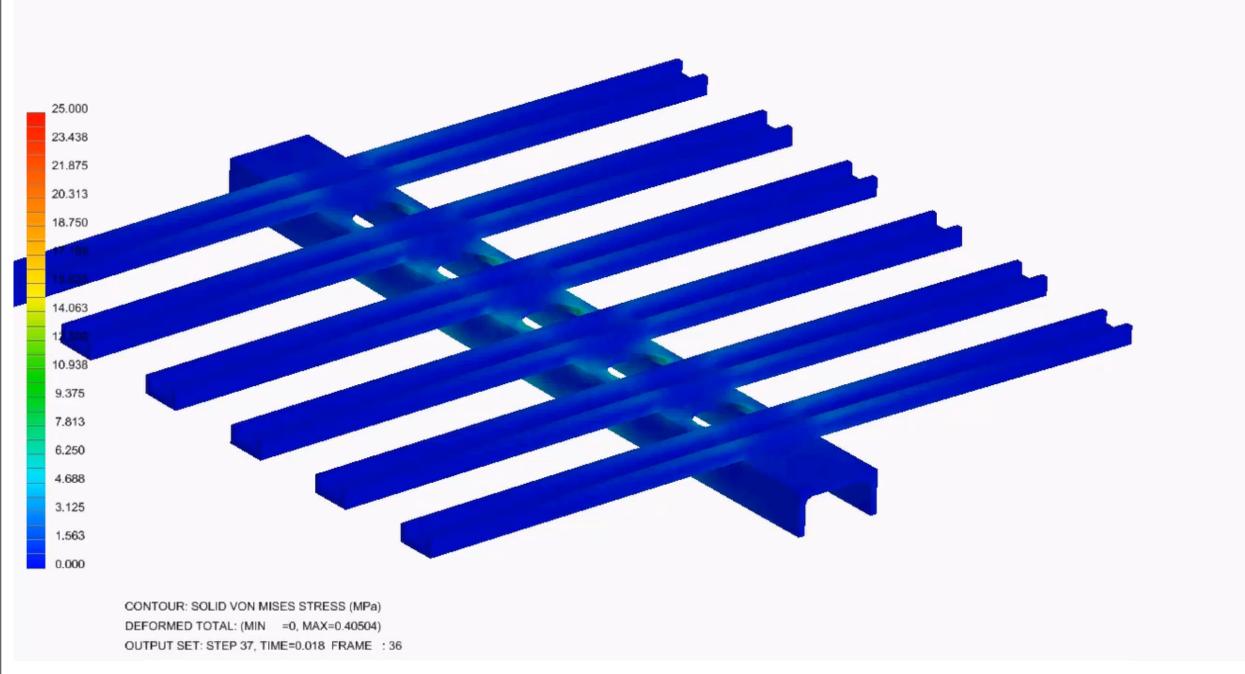






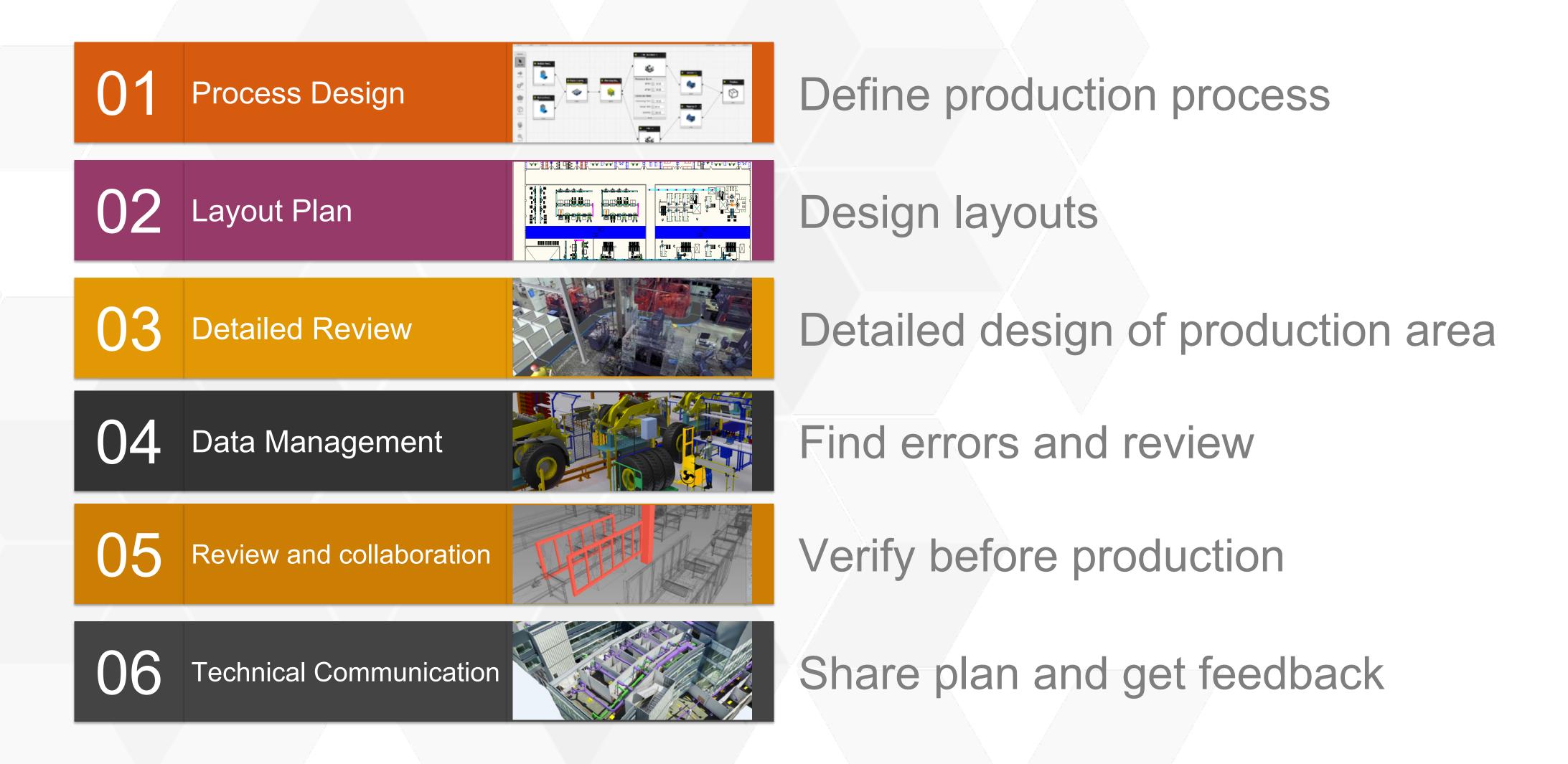






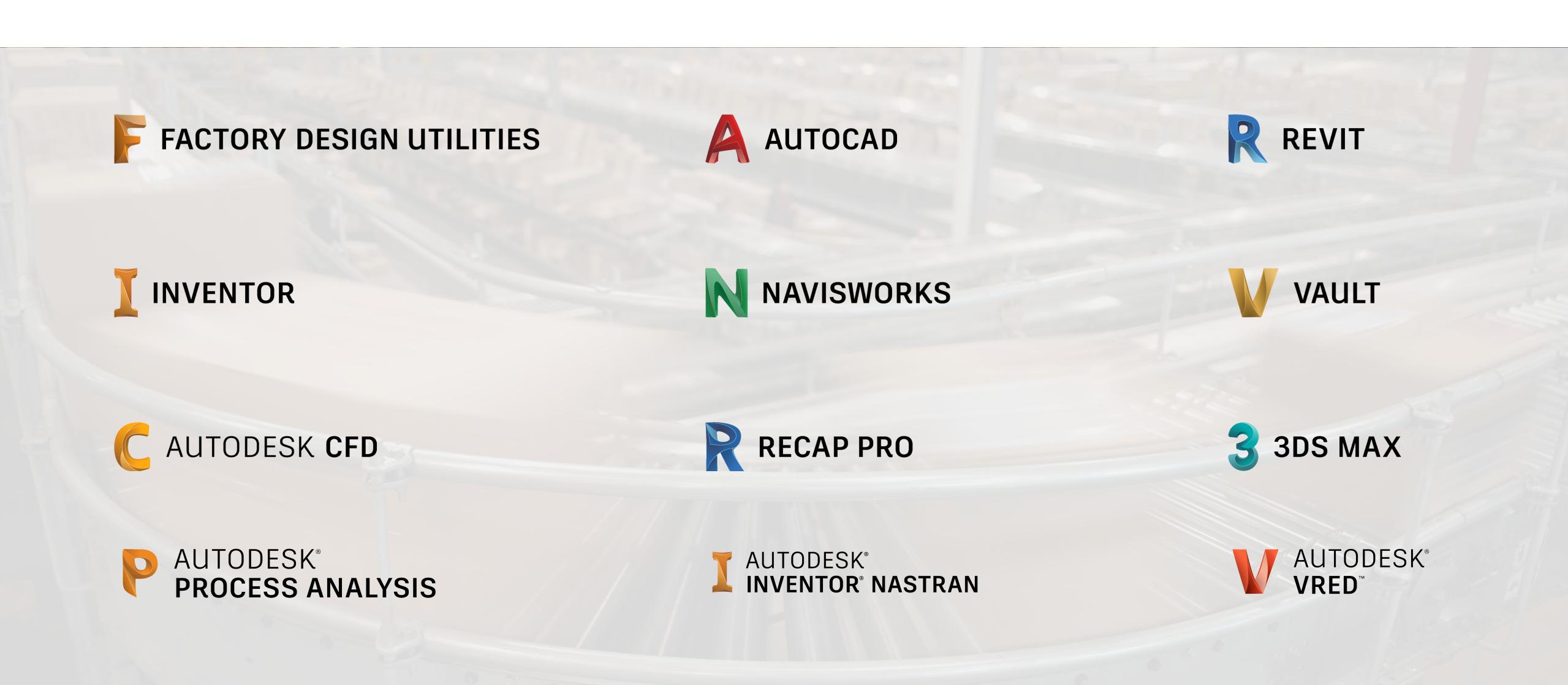


Digital Workflow



Products

Software Solutions





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