Jump-Start Your Manufacturing Projects – MA3364

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Sr. Product Manager





Course Description

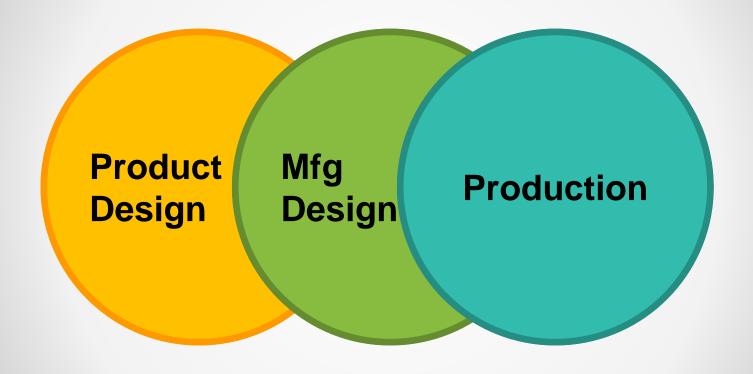
Turning requirements into actionable plans is difficult, but the process can be dramatically improved by capturing and testing your early concepts before detailed layout efforts begin. This class shows you how to get your projects going quickly using Autodesk® Factory Design Mobile for conceptual layout and Process Analysis 360 for process modeling.



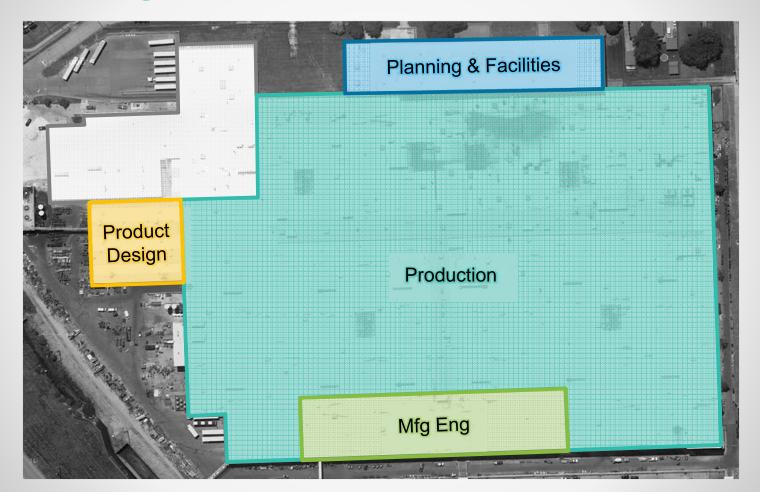
Course Objectives

- Create a 2D conceptual layout with FDM
- 2. Sync FDM project to FDS to see 3D
- 3. Simulate manufacturing options with PA 360
- 4. Show how FDM and PA 360 work with FDS

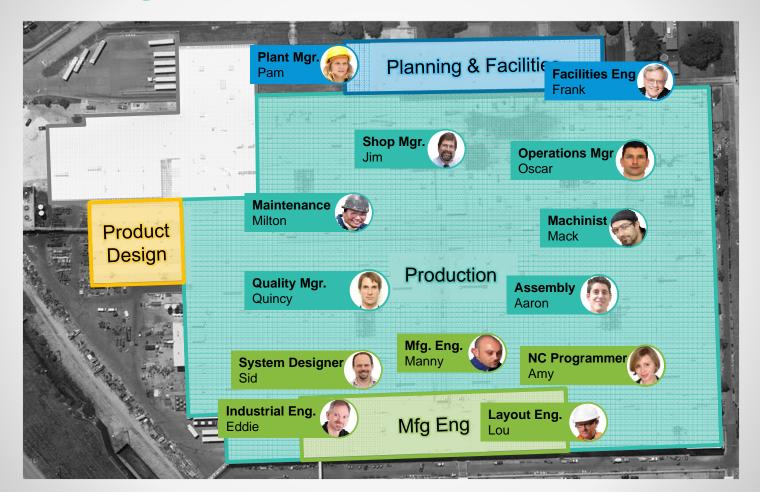




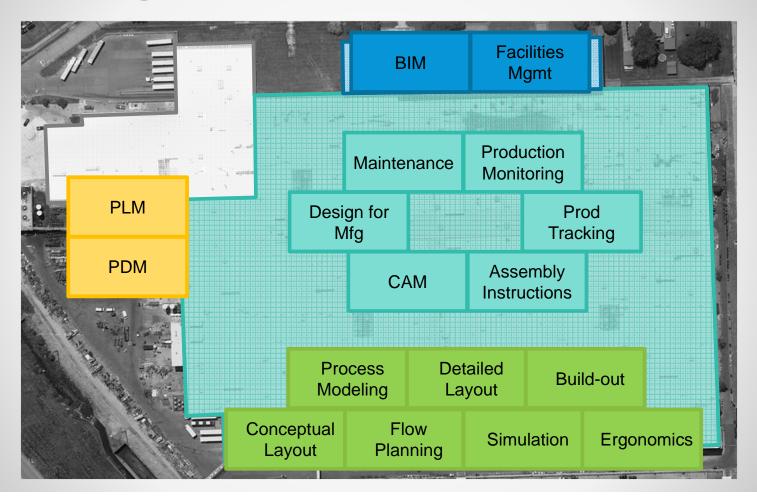
Manufacturing Environment



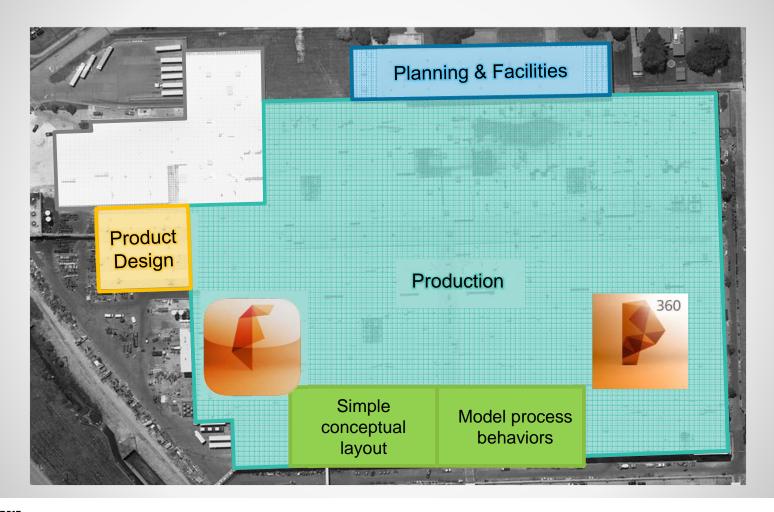
Manufacturing Users



Manufacturing Capabilities



Class Focus





Factory Design Mobile

AUTODESK.

Factory Design Mobile

Mobile Layout

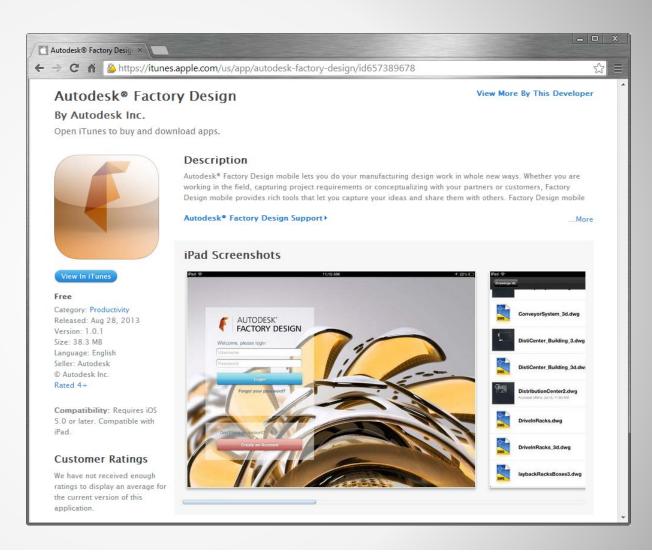
Design with Factory Assets

Workflow with FDS





Free!







Factory Design Mobile – What Can I Do With It?

- Perform conceptual layout in the field
 - Manufacturing and Layout Engineering
 - Sales support tool
- Accelerate design process with Factory Assets
- Make layout tasks more collaborative
 - New users can contribute to design process



Compliments Factory Design Suite



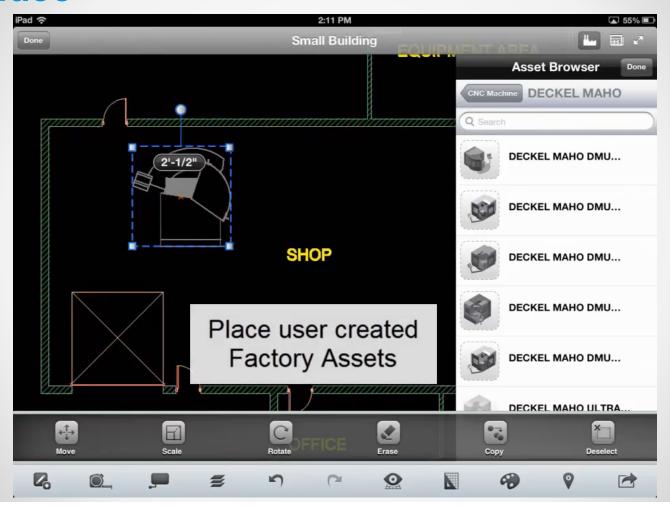
Conceptual Work







Demo Video



Audience Feedback: Project Planning

"I would like to capture project requirements while in the field"





Audience Feedback: Project Planning

"We often build conceptual models before implementing detailed designs"





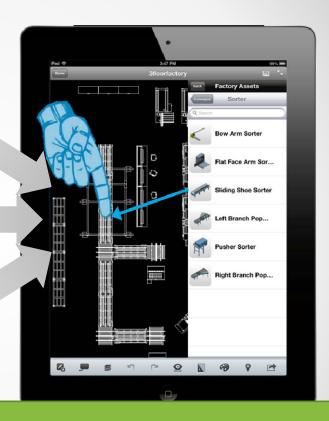
Business Value

Why Should I Care?

Complete layout anywhere

New users contribute to layout

Supports 2D-3D workflow



Saves Time, Reduces Errors, Lowers Costs





Process Analysis 360

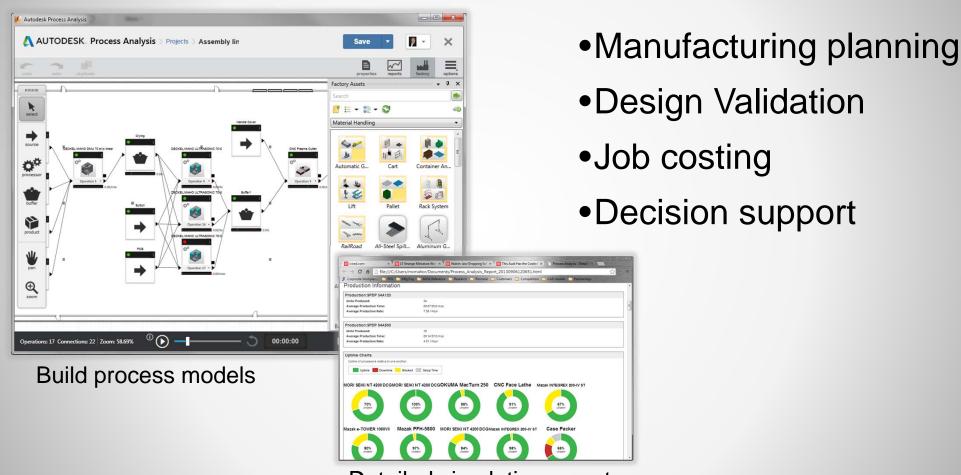
AUTODESK.

Everyone does process planning, Process Analysis 360 makes it easy



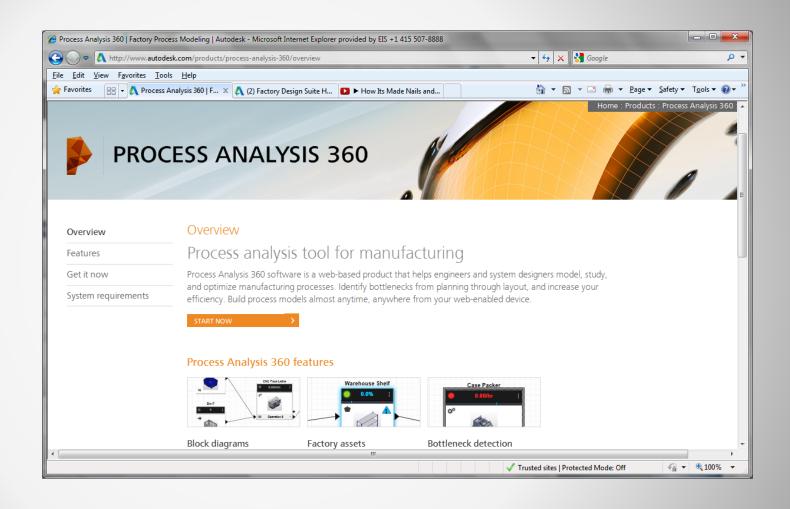


Process Modeling for Everyone



Detailed simulation reports

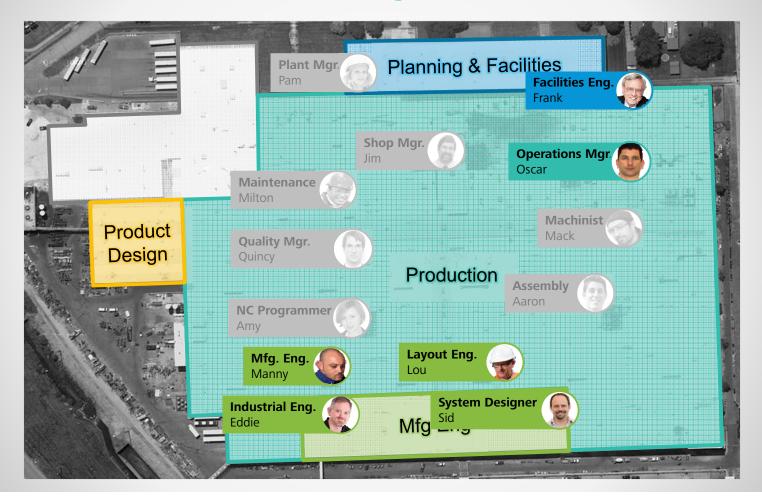
Free!





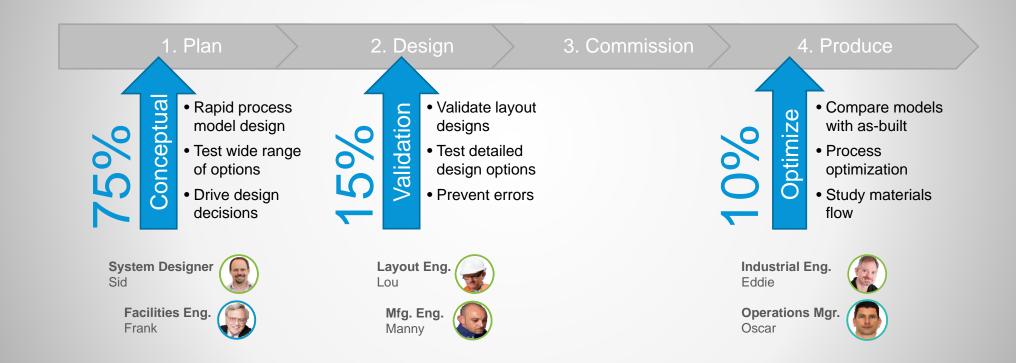


Who Uses Process Modeling?



Process Analysis 360 in Mfg Workflow

Usage by Persona







Audience Feedback: Process Modeling

"Our process plans or schedules often change when we get to manufacturing"





Audience Feedback: Sustainability

"We are concerned with reducing scrap, energy, water, waste in general"





Audience Feedback: Design Validation

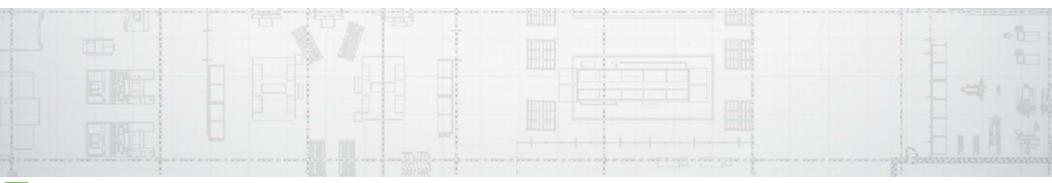
"We automatically capture data from our production equipment"







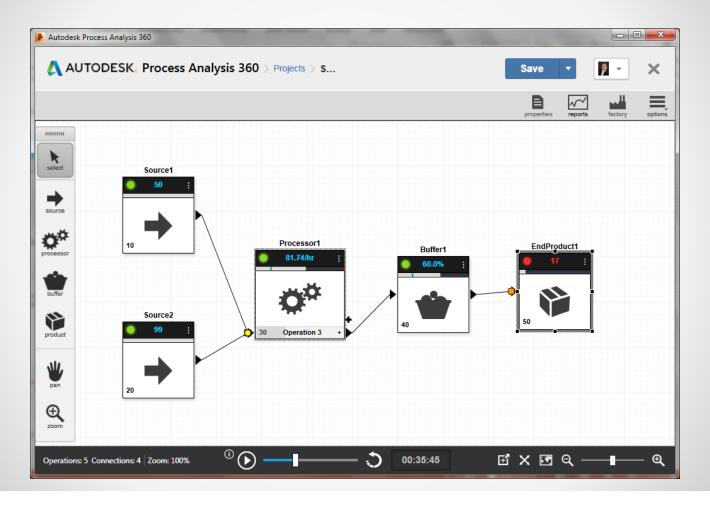
Building a Simple Model





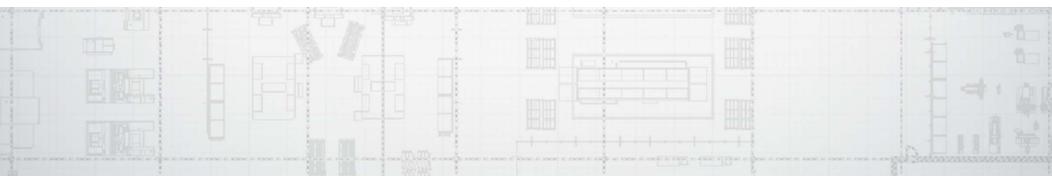


Simple Model Screenshot





How It's Made: Nails





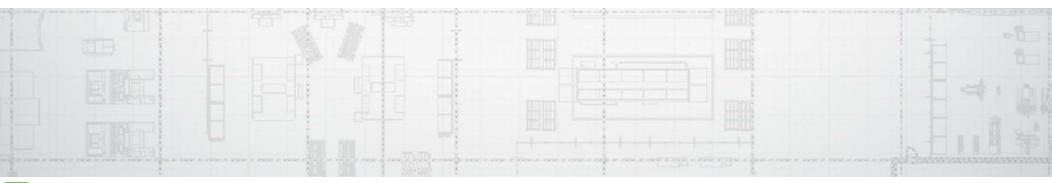


Video Screenshot





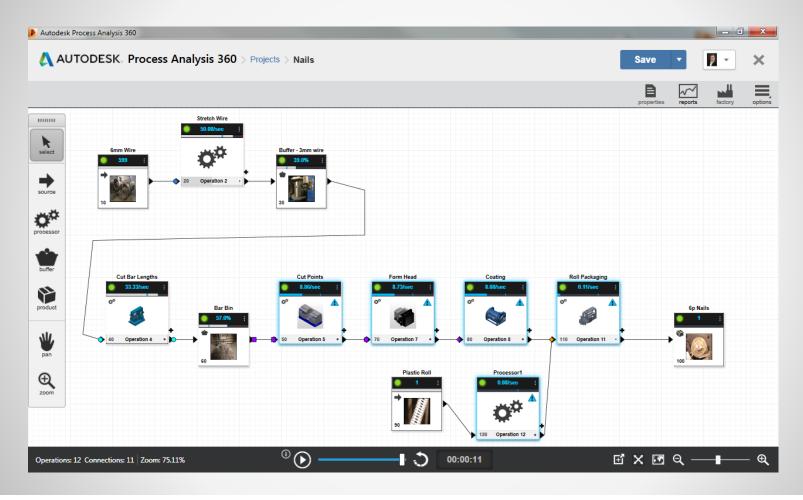
Building a Model for Nails



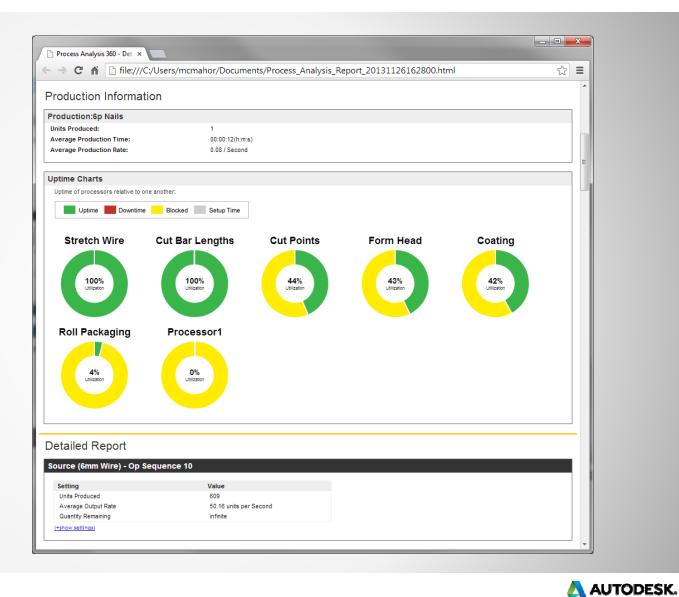




Nails Model Screenshot



Detailed Reports





Business Value

Streamline layout process

Validate design decisions

Reduce Errors

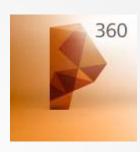


- Improved equipment utilization
- Inventory reduction
- Reduced capital investment
- Fewer postinstallation changes

Summary







Process Analysis 360

- Capture and validate project requirements
- Learn and get results quickly
- Accessible to all Free!

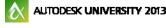


Segue: Looking Forward

Conceptual → Implementation → Production

Compare planned to actual then optimize

Requires Production Monitoring

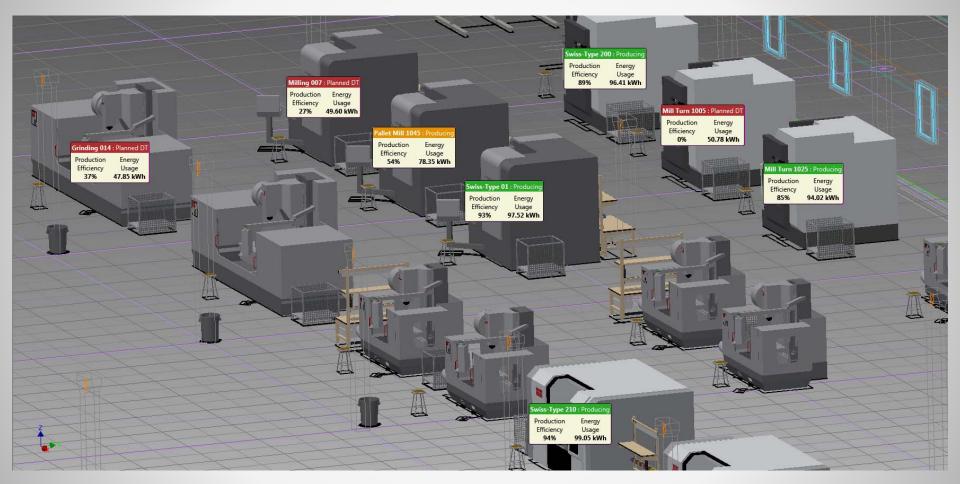




Production Monitoring with System Insights



Vimana From System Insights

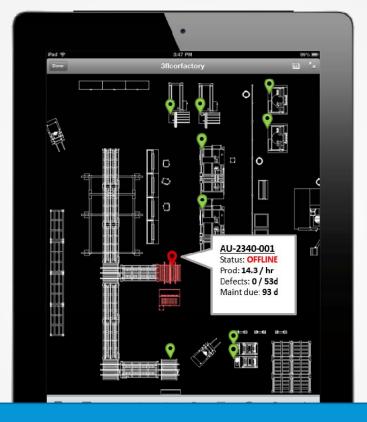




Vimana From System Insights



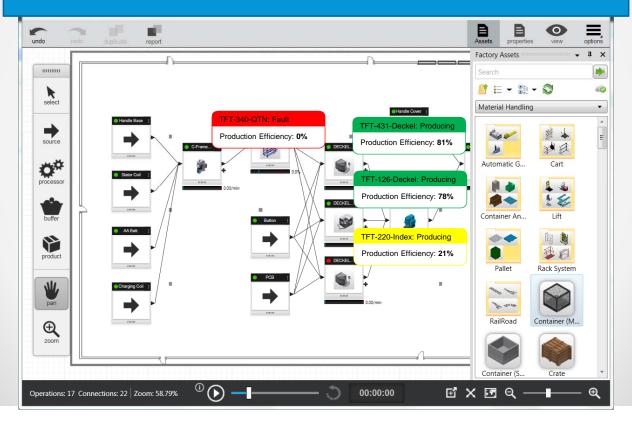
FDM as Platform for Production Monitoring



Access to production data anywhere

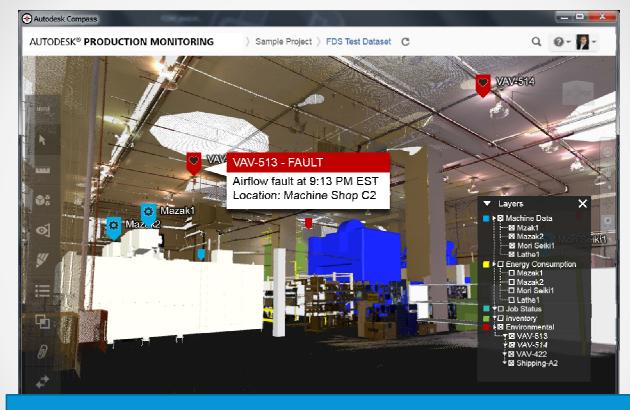
PA 360 for Production Monitoring

Compare process model to actual





"Google Earth" for Manufacturing



3D environment, Layers of Mfg Data



Course Objectives Met?

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Thank You!





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Appendix A: FDM Information



Get it Now! Install FDM from iTunes

https://itunes.apple.com/us/app/autodesk-factory-

design/id657389678

Sample Files Copy sample files to your A360 account to access in FDM

■ Small Building—<u>http://a360.co/17VzUA6</u>



Appendix B: PA 360 Information



Get it Now! Start from your browser

http://processanalysis360.autodesk.com

Website Get more information below

http://www.autodesk.com/products/process-analysis-360

Sample Files

Copy sample files to A360>ProcessAnalysis Folder to access in PA 360

- Simple Model—http://a360.co/1dl59fq
- Nails Model—http://a360.co/18qZhxi
- Video—http://www.youtube.com/watch?v=gP8xetjKFs0



