AUTODESK UNIVERSITY 2014

What Factory Design Suite means to me

Jochen Andörfer – Autodesk Consulting
Robert Ostermann – Magna Steyr

PF7220 – What Factory Design Suite means to me

Class summary

This customer round table will provide Factory Design Suite successes to improve the manufacturing planning process

Learning Objectives

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

- Discover how Factory Design Suite software solves planning problems
- Learn how to use effective practices for implementation success
- Repeat value proposition for FDS implementation
- Learn how to maximize on as-is facility conditions

About the Speakers

Robert Ostermann

- Factory Designer
- Magna Steyr
- Graz, Austria
- at Magna since 2000

Jochen Andörfer

- Business Consultant
- Autodesk Consulting EMEA
- south of Germany
- at Autodesk since 2005
- Tech. Consultant, Project Manager
- Engineer in Geoinformatics and Business Economist

Business Objectives and project goals

Efficiency

Gain Time and Cost benefits by the parallelization of all necessary planning activities, improved interdisciplinary collaboration based on binding and accurate data.

Quality

Harmonization and optimization of the planning process in order to improve entire process and product quality

Communication & Collaboration

Provide processes, methods and tools for effective communication and collaboration

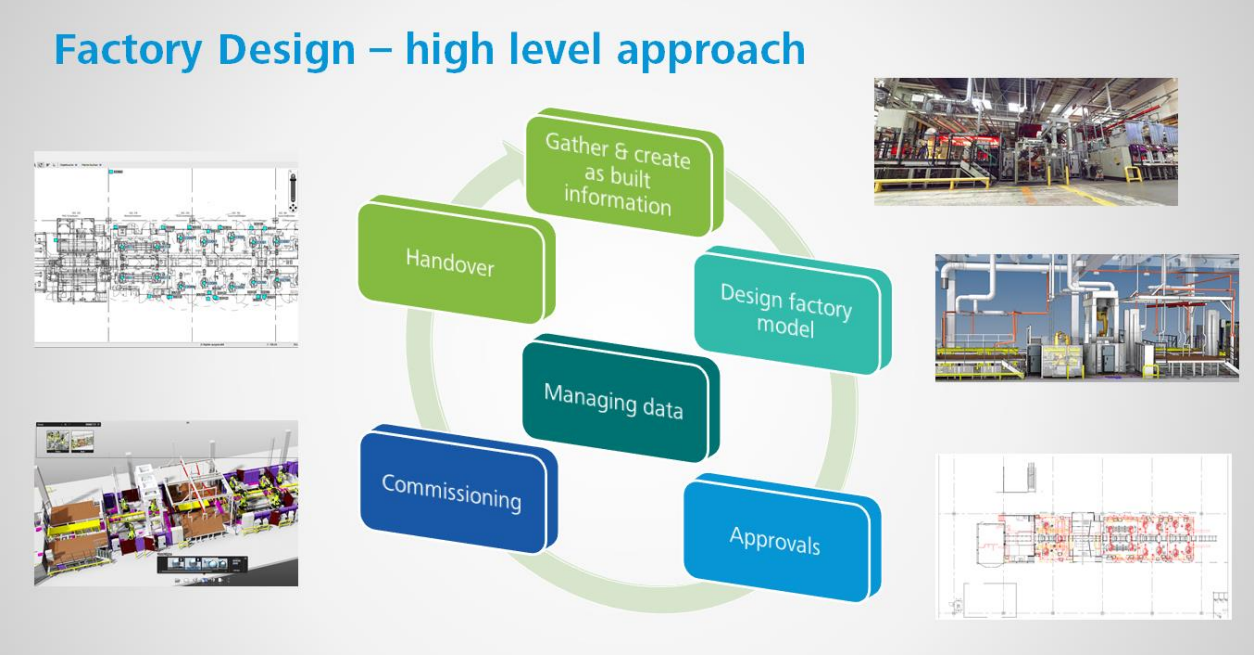
Knowledge & Best Practice

Standardization of the planning process in order to increase reusability of knowledge, reduce planning time and cost, increase planning reliability

Customer project goals:

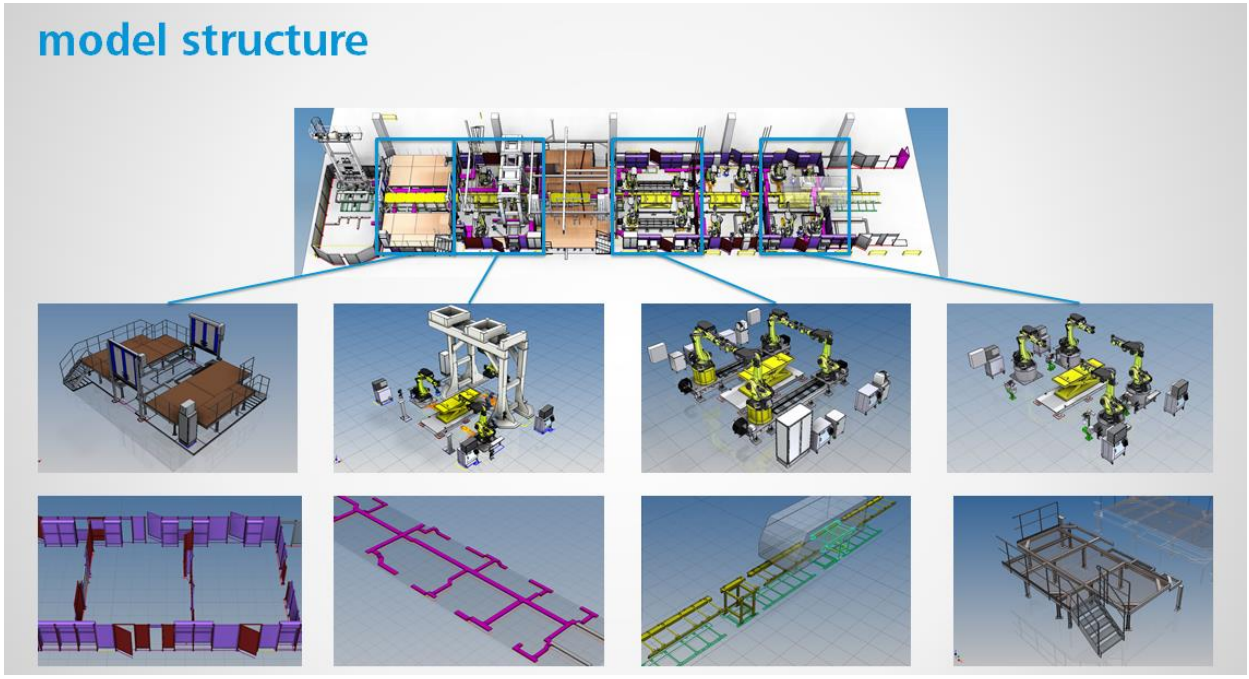
- Virtual ensuring of production to reduce physical prototyping
- Reduced investment and production cost through better planning quality by geometry support
- Early identification of critical production processes and potential feedback to product development to avoid additional cost
- Usage of process/sequence simulation for layout and safeguarding of production scenarios

Factory Design planning process

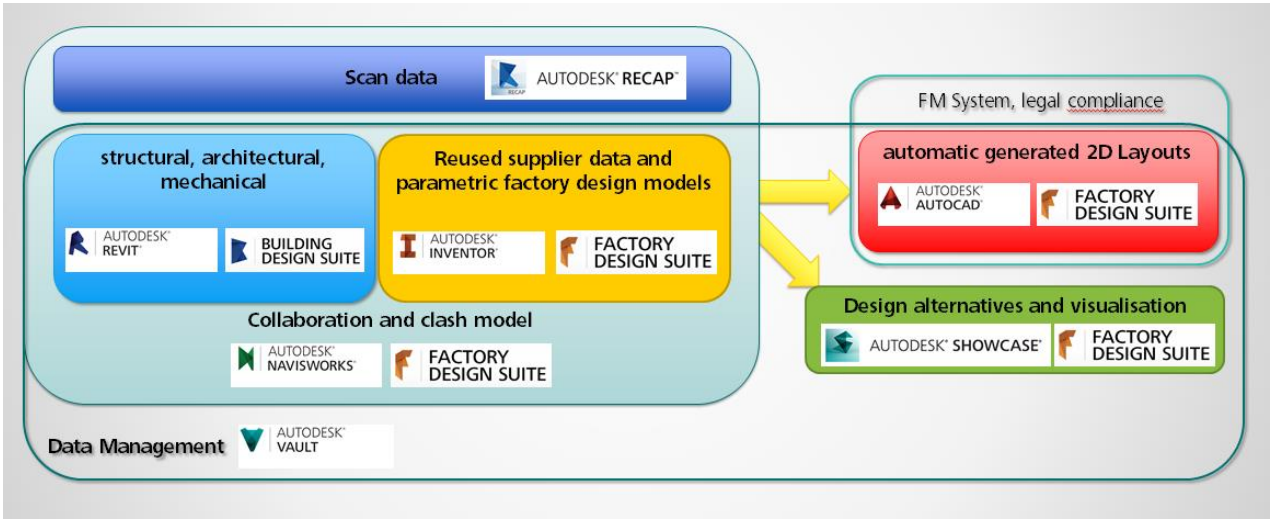


Project description & Structure of 3D Factory model in FDS

- Renewal of 26 robots and its entire equipment over 12 production cells in a body in white production area
- Get the technical- and safety-standards up to date
- Complete the work of this project in the winter shut down 2014/15 (12 workdays)



Autodesk solutions involved



Results of factory design in a body in white production area

- Renewal of 26 robots and its entire equipment over 12 production cells in a body in white production area
  - **commissioning possible within planned time frame based on 3D factory design methods**
  -
- Get the technical- and safety-standards up to date
  - **Ensuring of technical- and safety-standards only possible with integrated 3D Factory design**

- Complete the work of this project in the winter shut down 2014/15 (12 work days)
  - **possible with pre-assembled equipment based on virtually integrated 3D factory model**

benefits