

IM322819-L
Factory Design Utility Hands-on Lab

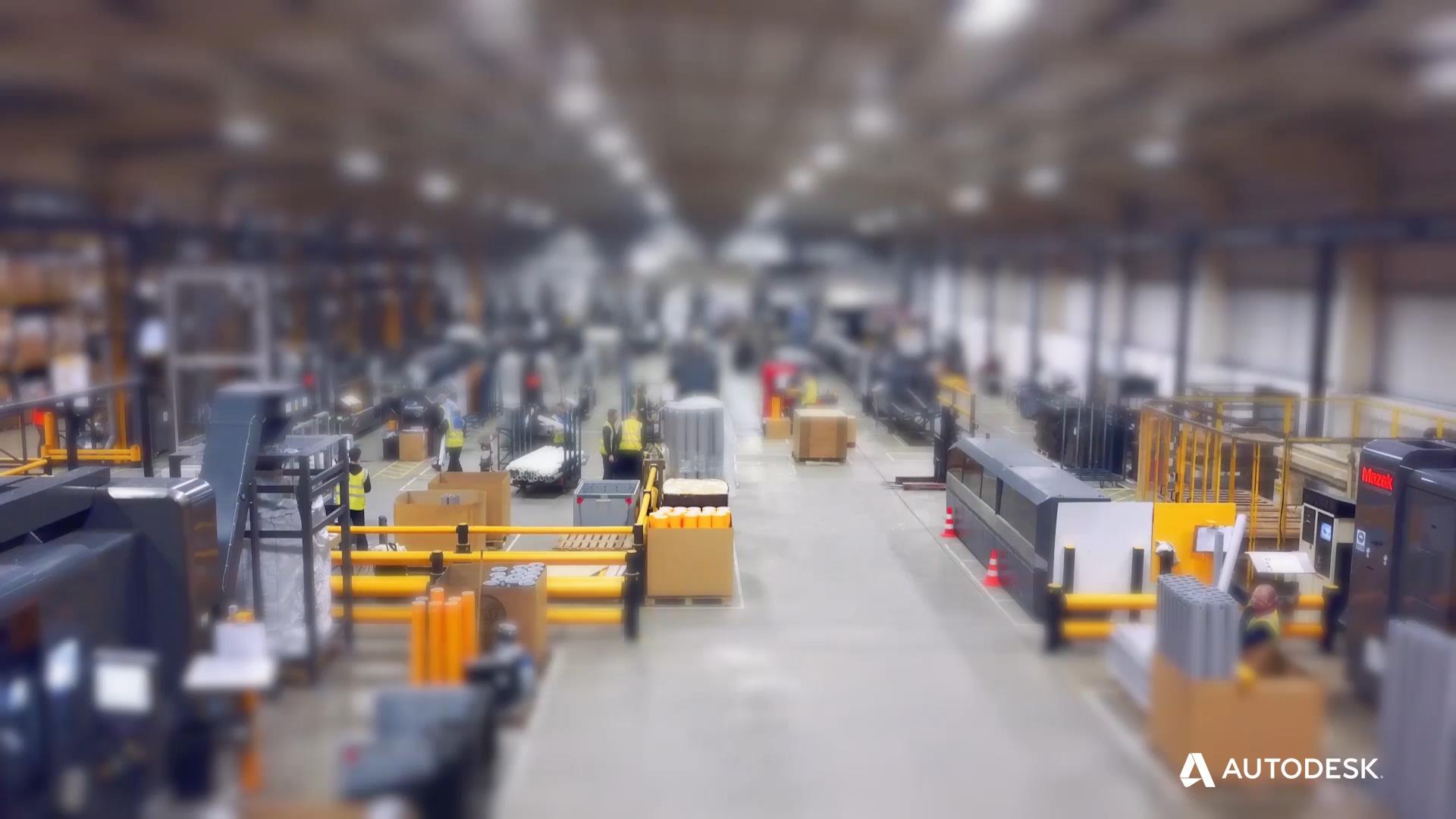
Factory Design Utilities Workflow-from Zero to Hero

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Agenda

- Factory Design Utility can be used as a tool for the digitalization of factories, the first step into an Industry 4.0 initiative. This gives you a unique selling point and a competitive advantage in a customer opportunity. It can also be used as a sales configuration tool where layouts are part of the bidding process.
- This class is intended for beginners that want to learn the different workflows and technologies that are available as part of the Factory Design Utility, including the integration with a BIM environment.



Autodesk Factory Design Utility is a 2D/3D **Factory layout solution purpose-built to help **Factory** Designers make better layout decisions by enabling them to create a Digital Twin of the **Factory****

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Product Design & Manufacturing Collection



Inventor
Professional



Autodesk
Nastran
In-CAD



HSM



Fusion 360



AutoCAD
Mechanical



AutoCAD
Electrical



Vault Basic



3ds Max



Factory
Design
Utilities



Navisworks
Manage



ReCap Pro

Inventor Tolerance Analysis

AutoCAD

AutoCAD web app

AutoCAD mobile app

AutoCAD Architecture

AutoCAD Plant 3D

AutoCAD Map 3D

AutoCAD MEP

AutoCAD Raster Design

Vehicle Tracking

Autodesk Rendering

Autodesk Drive



The story of the Folding Spade production factory

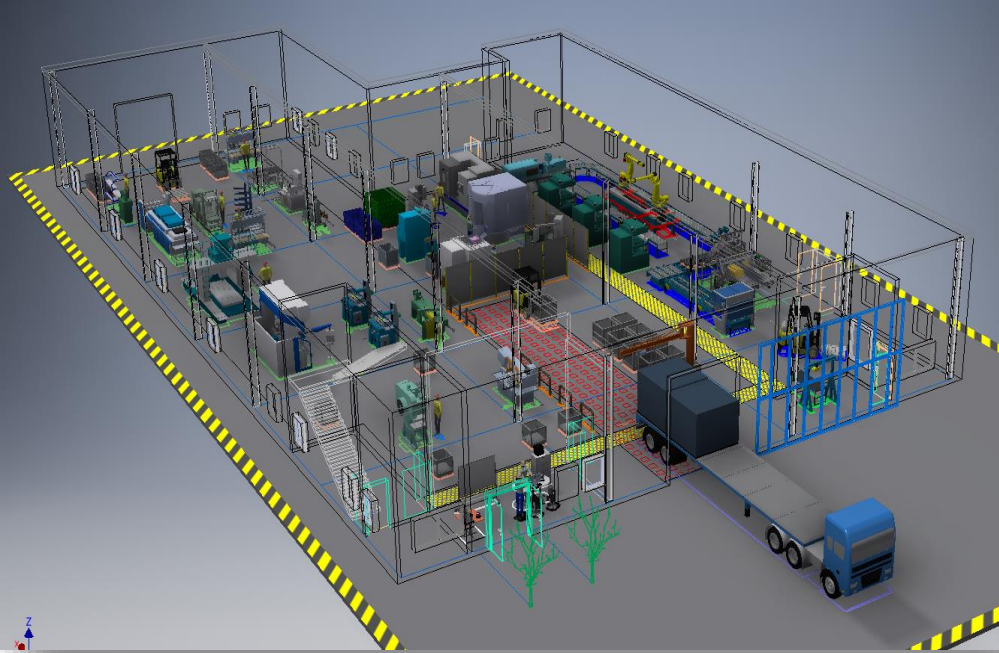


Factory Design Utility for Beginners



- From the PA model
 - That help to model an production process to simulate the time and the type of process you need
 - It allow to see bottle neck's and buffer status incl. line balancing
 - You define what assets are used and the process time
 - You can export to Excel and DWG
 - You get an overview about the equipment you need

Factory Design Utility for Beginners



- From 2D to a Digital Twin
 - BIM can be integrated early
 - You can use the 2D world – the 3D comes with it
 - No matter where you work 2D or 3D
 - Easy implementation also for 2D users
 - You can easy change and evaluate your layout
 - The 3D is integrated
 - Open to any modern 3D file format

Factory Design Utility for Beginners



- Integrate the building early
 - You can use the Revit import to be connected with the BIM world
 - You can use AutoCAD Architecture in the brown field area (easy)
 - You can import the ACA model as a Solid to Inventor
 - You can use Navisworks to show the processes in Revit (Coordination for MEP)
 - You can save the process as a Revit family (Capacity)
 - First step to Industry 4.0

Factory Design Utility for Beginners



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Factory Design Utilities Workflow-from Zero to Hero

Peter De Strijker
Autodesk

Co-presenters:

Daniel Lutz
Autodesk

Paul Munford
Autodesk

Learning Objectives

- Get familiar with Factory Design Utilities as part of the Production Design & Manufacturing Collection
- Experience the smooth data transition between AutoCAD, Inventor, and Navisworks using Factory Design Utilities
- Learn how to overcome broken workflows using Factory Design Utilities
- Learn the fastest way to set up your digital mockup

Description

This introductory hands-on lab will guide you through all the steps of setting up a production facility with Factory Design Utilities, from ideation to imagery, based on a step-by-step guided data set.

Speaker(s)

Peter De Strijker is an application engineer / industrial manufacturing for Autodesk, Inc. He is responsible for driving the Autodesk manufacturing sales channel in the Benelux region in Europe. Before joining Autodesk, Peter worked as mechanical design engineer at a Belgian marine engine and gearbox manufacturer. He is a graduated engineer with a degree in electro mechanics.

- Documentation for a 90 min. Training
 - Easy to Use Dataset – Vault Ready
 - Small sample to show the workflow
 - Great start for a pilot project
 - Good for new members of the FDU



Let's Get Started!



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