TEHOA TUOTANTOJÄRJESTELMIEN SUUNNITTELUUN 3D-SIMULOINNILLA
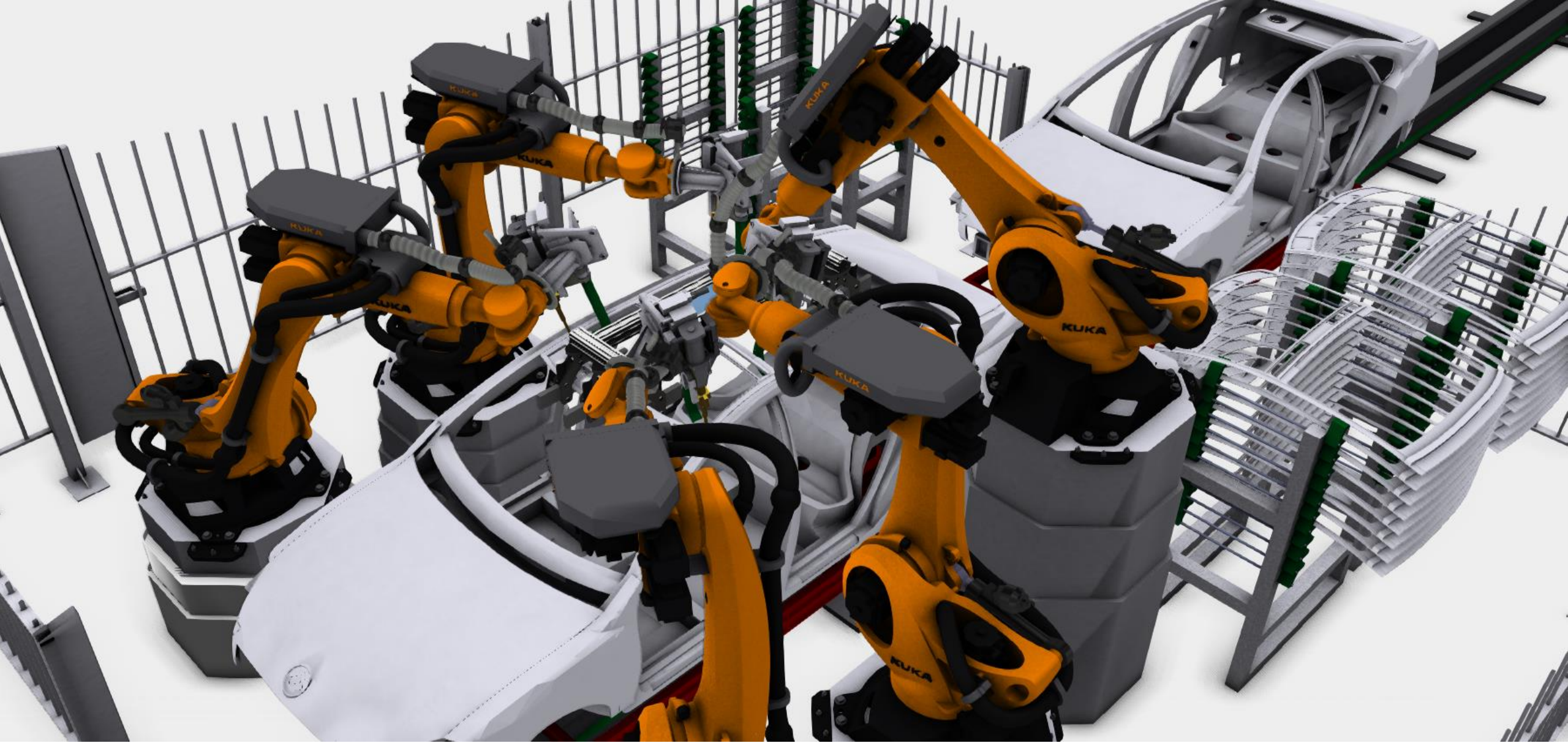
Mikko Urho

2.12.2016 Pori

VISUAL COMPONENTS

WORLDWIDE PARTNER NETWORK

Headquarters
Reseller
OEM partner
Subsidiary
Consultant
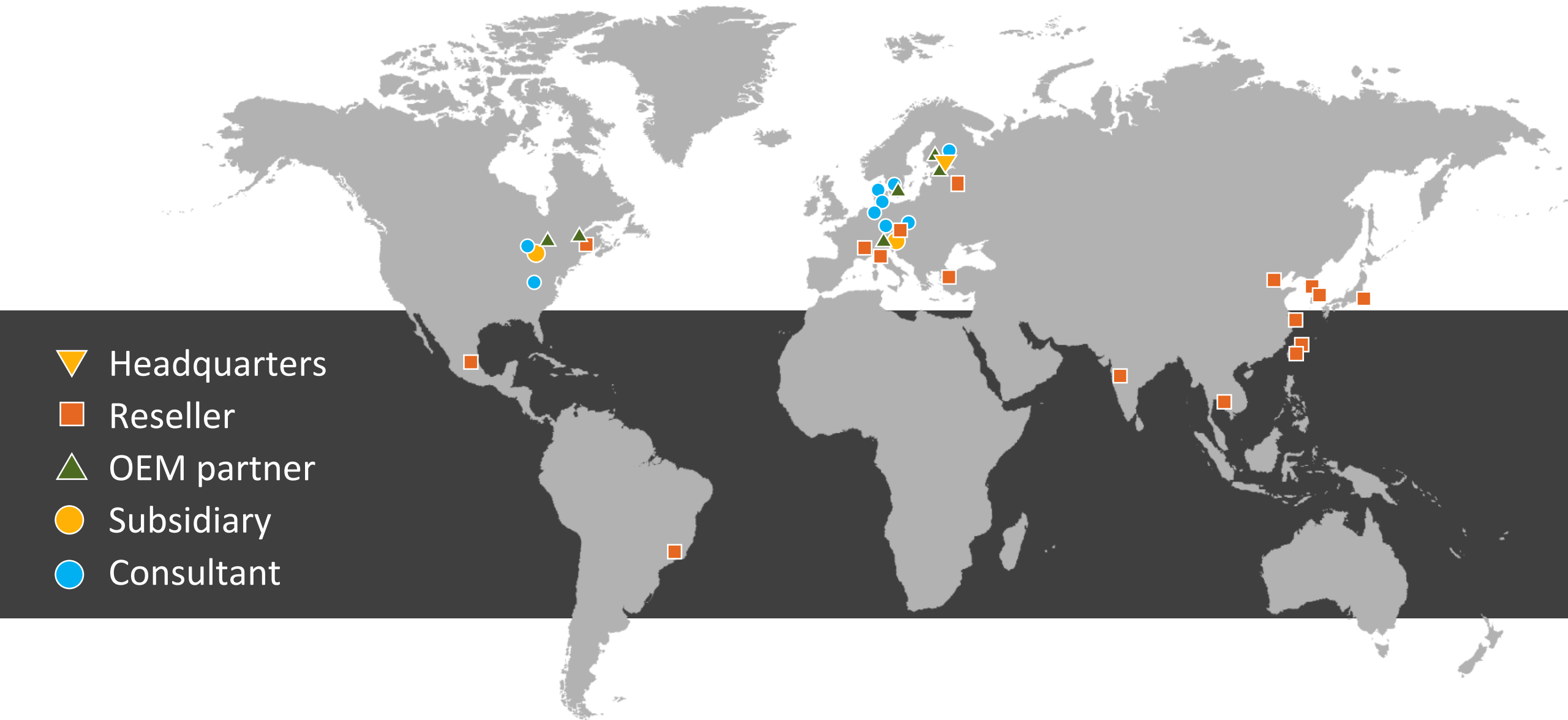
3D SIMULATION FOR EVERYONE I OPEN SOFTWARE PLATFORM

VISUAL COMPONENTS 4.0

VISUAL
COMPONENTS

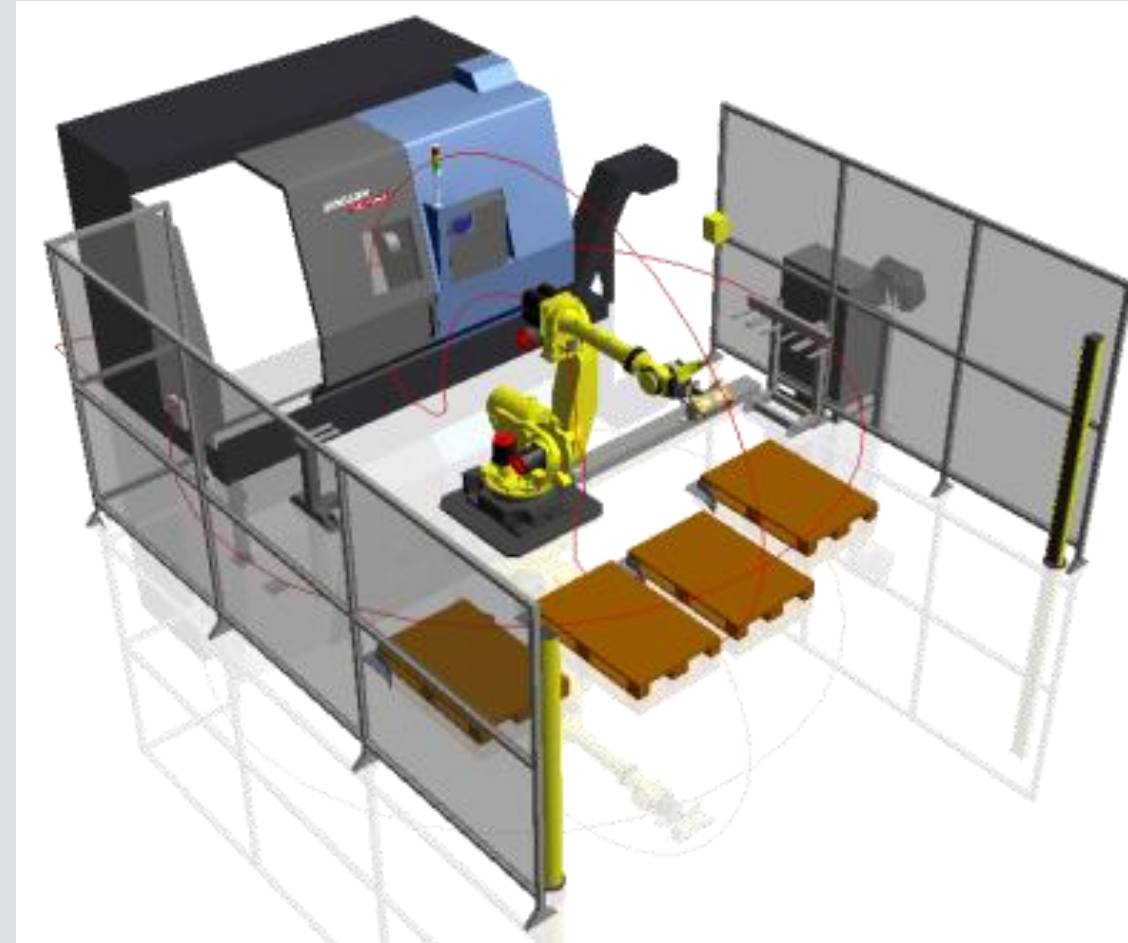# VISUAL COMPONENTS SOFTWARE PLATFORM

- **Powerful simulation engine supports:**
    - Discrete-event for material flow simulation
    - Robotics simulation
    - Physics (Rigid-body) for realistic cable and conveyor simulations

- **Open API through .NET and Python**
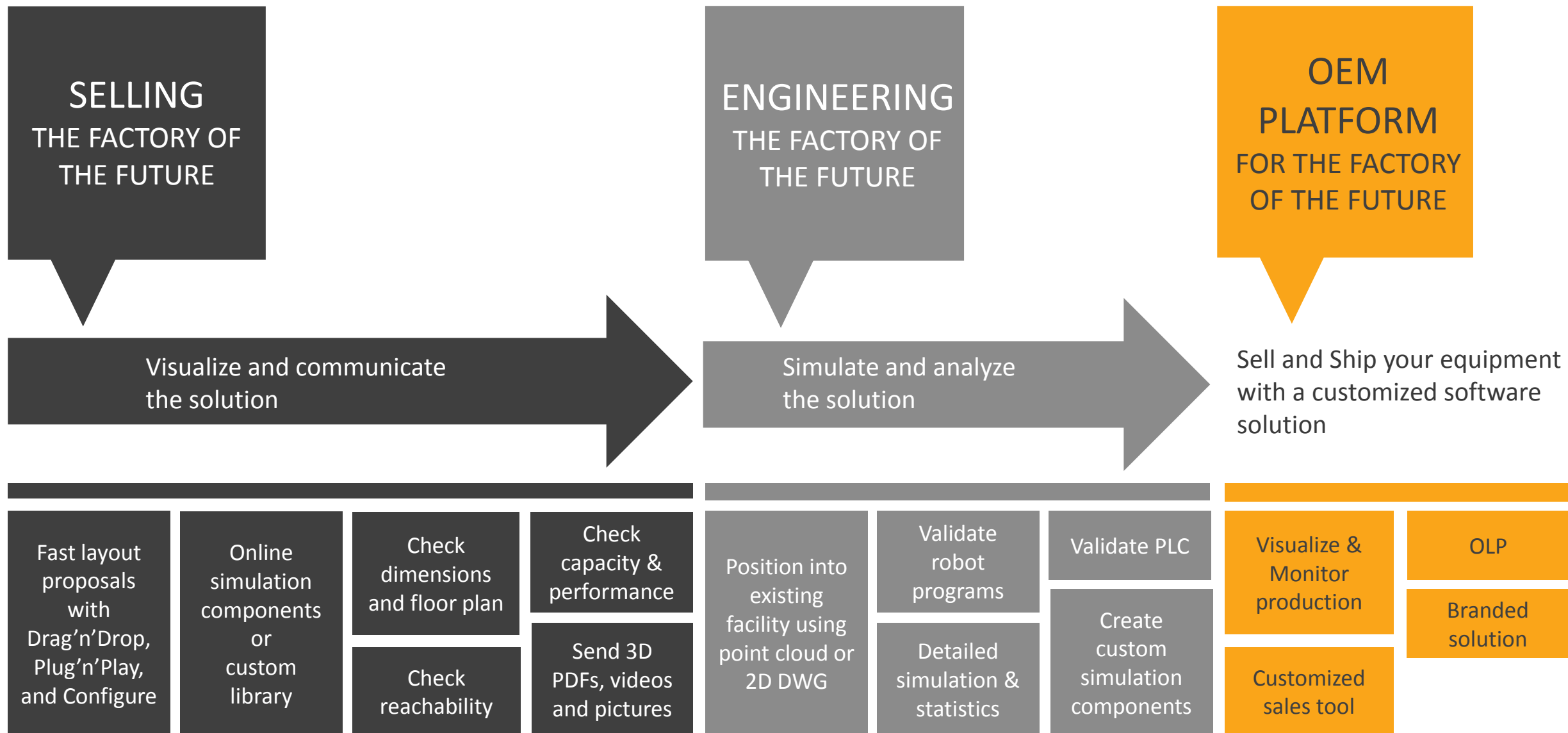
WHY 3DSIMULATION?

VISUAL
COMPONENTS
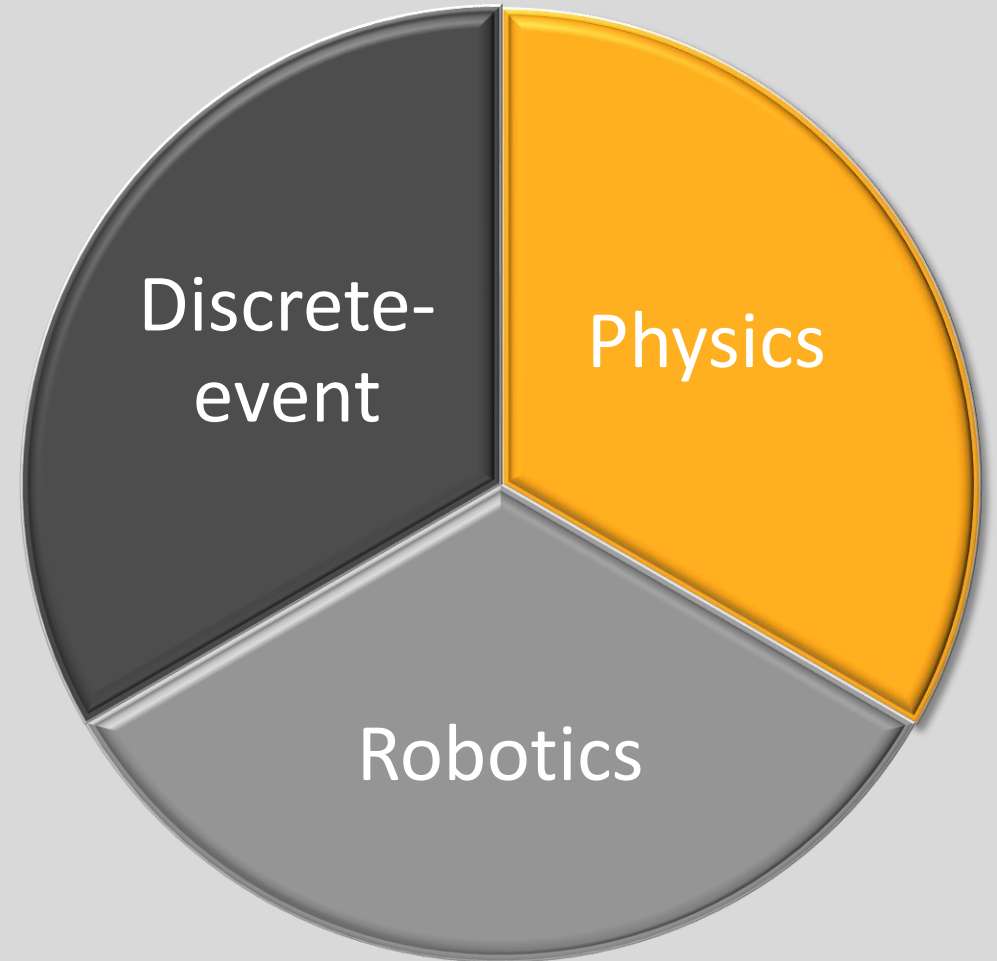
COMMON PROBLEMS IN FACTORY DESIGN

- Many layout alternatives

- Tools require expert resources

- Results are too technical and not very representative

- Hard to convince the decision makers

DESIGN THE FACTORIES OF THE FUTURE

SELLING THE FACTORY OF THE FUTURE

ENGINEERING THE FACTORY OF THE FUTURE

OEM PLATFORM FOR THE FACTORY OF THE FUTURE

Visualize and communicate the solution

Simulate and analyze the solution

Sell and Ship your equipment with a customized software solution

Fast layout proposals with Drag'n'Drop, Plug'n'Play, and Configure	Online simulation components or custom library	Check dimensions and floor plan	Check capacity & performance
		Check reachability	Send 3D PDFs, videos and pictures

Position into existing facility using point cloud or 2D DWG	Validate robot programs	Validate PLC
	Detailed simulation & statistics	Create custom simulation components

Visualize & Monitor production	OLP
Customized sales tool	Branded solution

BENEFITS IN MANUFACTURING

- Optimized layout, process, and productivity

- Tests with real production lists, peak production, and machine failures

- Reporting of process steps and KPIs
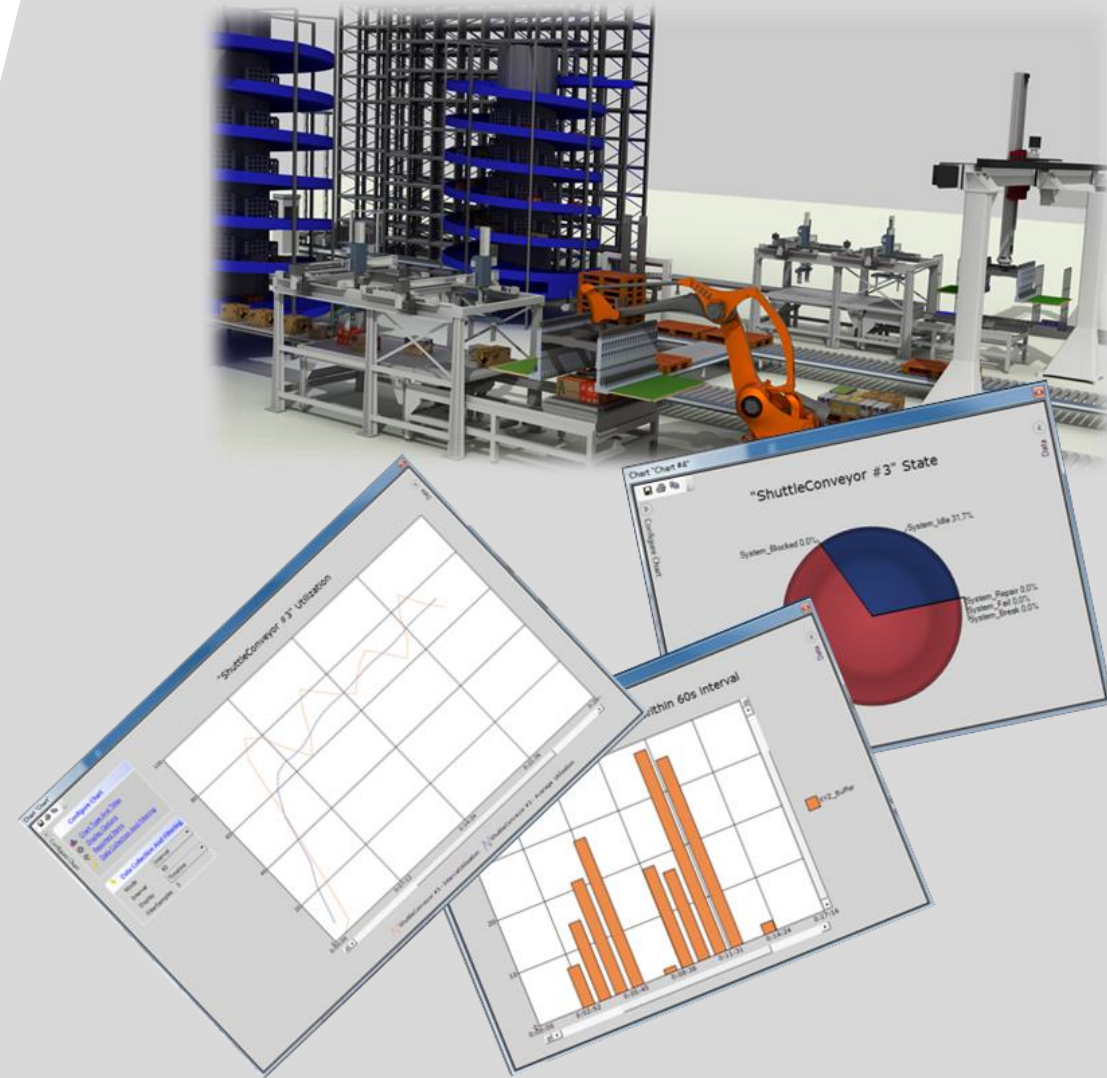
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