

evosoft GmbH

Integrated Digitalization with Teamcenter and
AutomationML

SYSTEMTEST

INTEGRATED ENGINEERING

AUTOMATION PRODUCT
SOLUTIONS

CUSTOMIZED AUTOMATION
SOLUTIONS



evosoft
RUN A WINNING SYSTEM

evosoft GmbH – We consult to deliver



100% Siemens
CT DD DS EVO
Competence Center
Digitalization



~1500 employees
world wide
~ 550 employees
in Germany

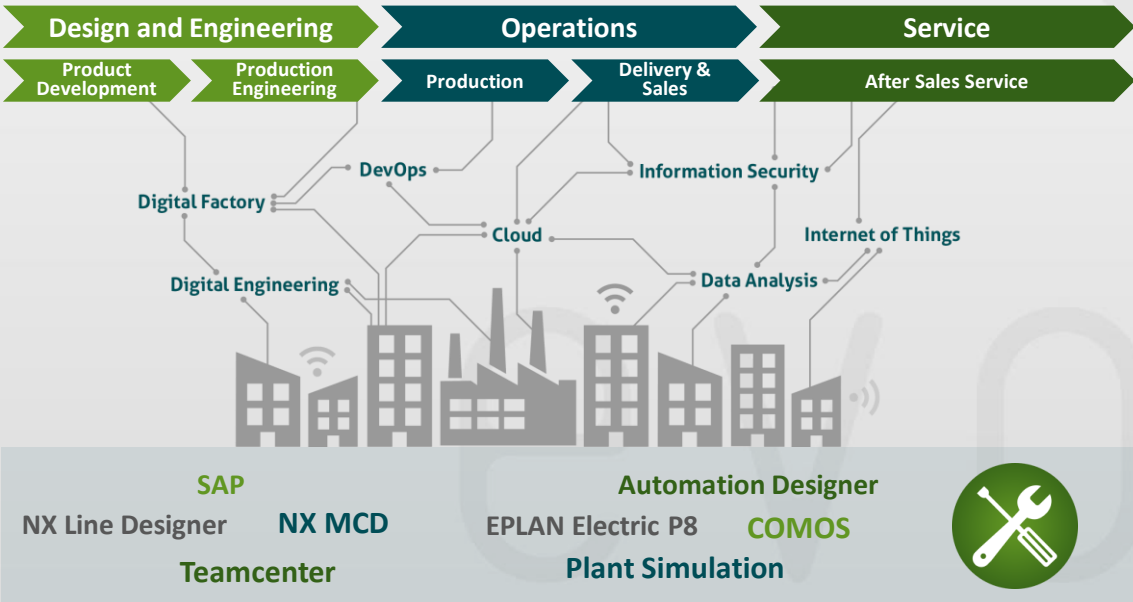


Germany: Nuremberg (HQ),
Berlin, Brunswick,
Karlsruhe, Cologne, Munich



Hungary: Budapest (evosoft Kft.)
Romania: Cluj (Siemens AG)
Turkey: Istanbul (Siemens AG)

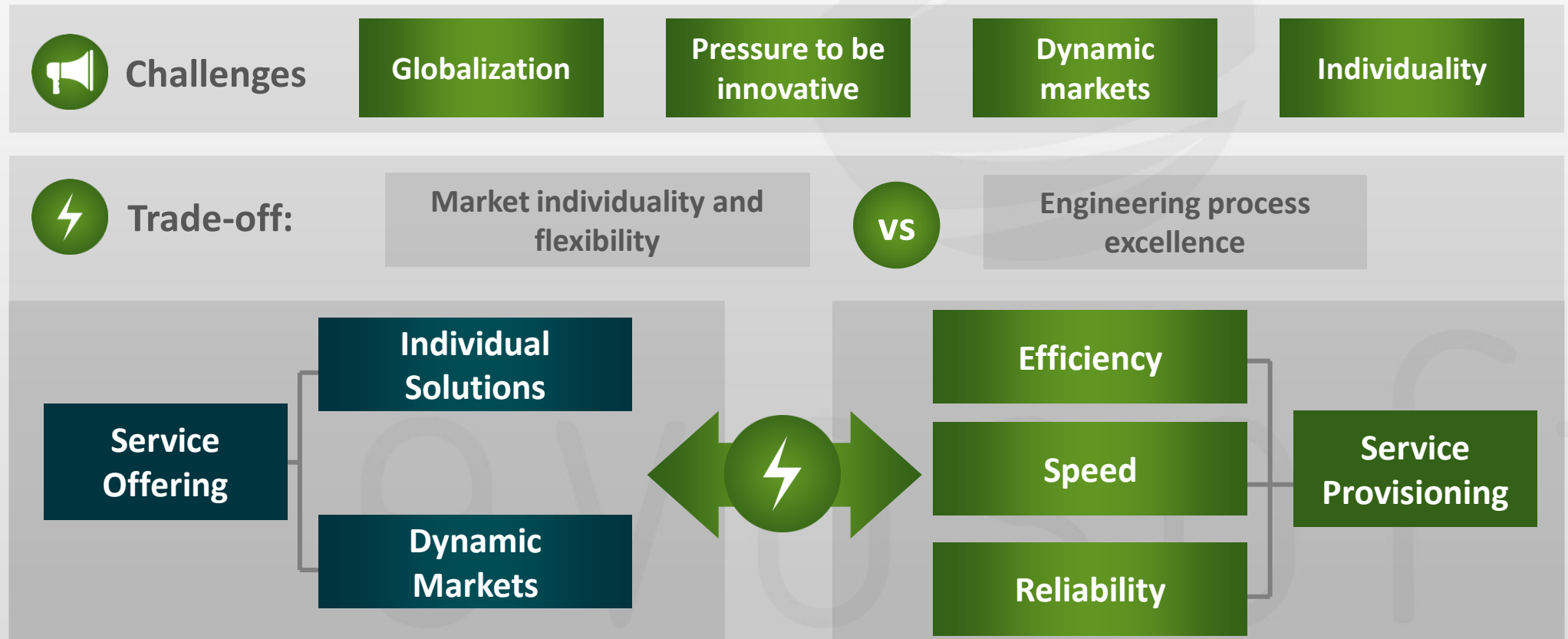
Digitalization along the entire value chain



evosoft GmbH offers:

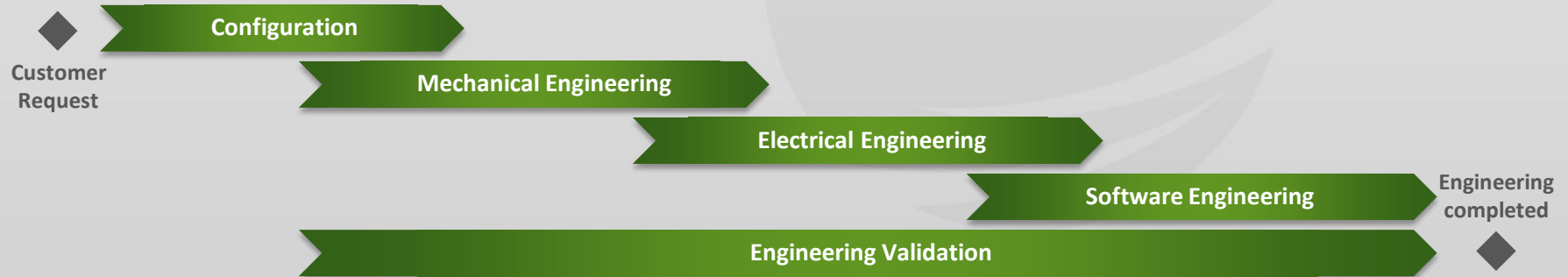
- Integrated method and solution competence from consulting, realization towards operations
- Horizontal and vertical...
 - Product and system integration
 - Solution development
- R&D and IT software development
- Automation & Drive Engineering
- Technology and platform wide competence
- Product and project experiences across all business units

Current challenges within the engineering domain – a trade off between flexibility and process optimization

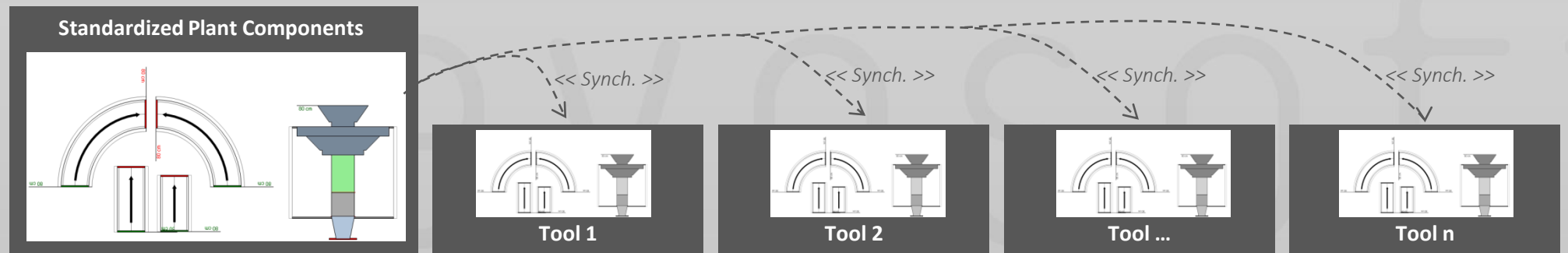


Approaching engineering process parallelization based on functional standardization & modularization

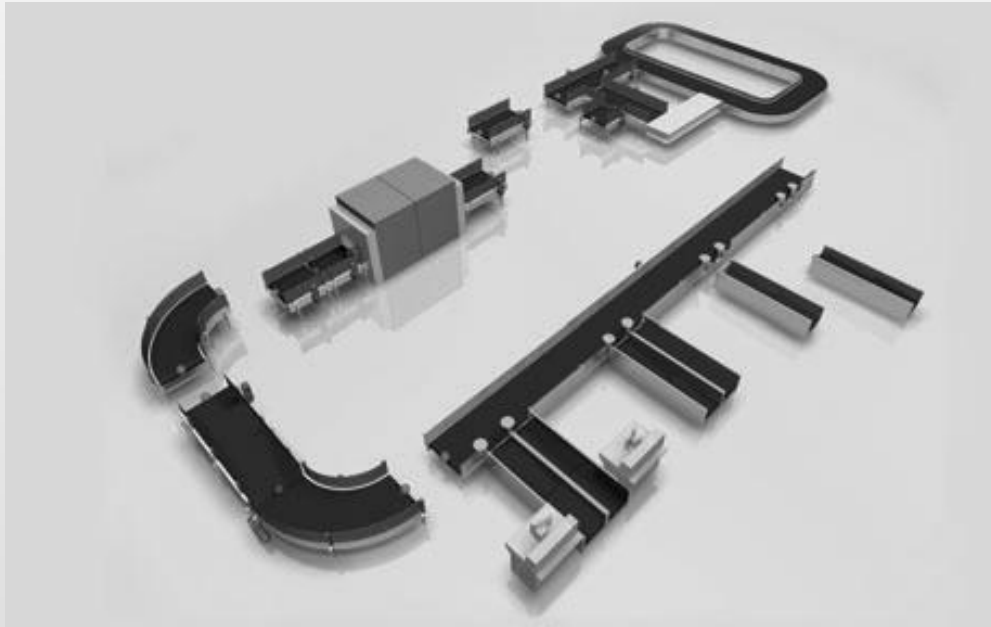
Goal: Efficient engineering with process parallelization



Precondition: Functional standardization & modularization based on synchronized libraries

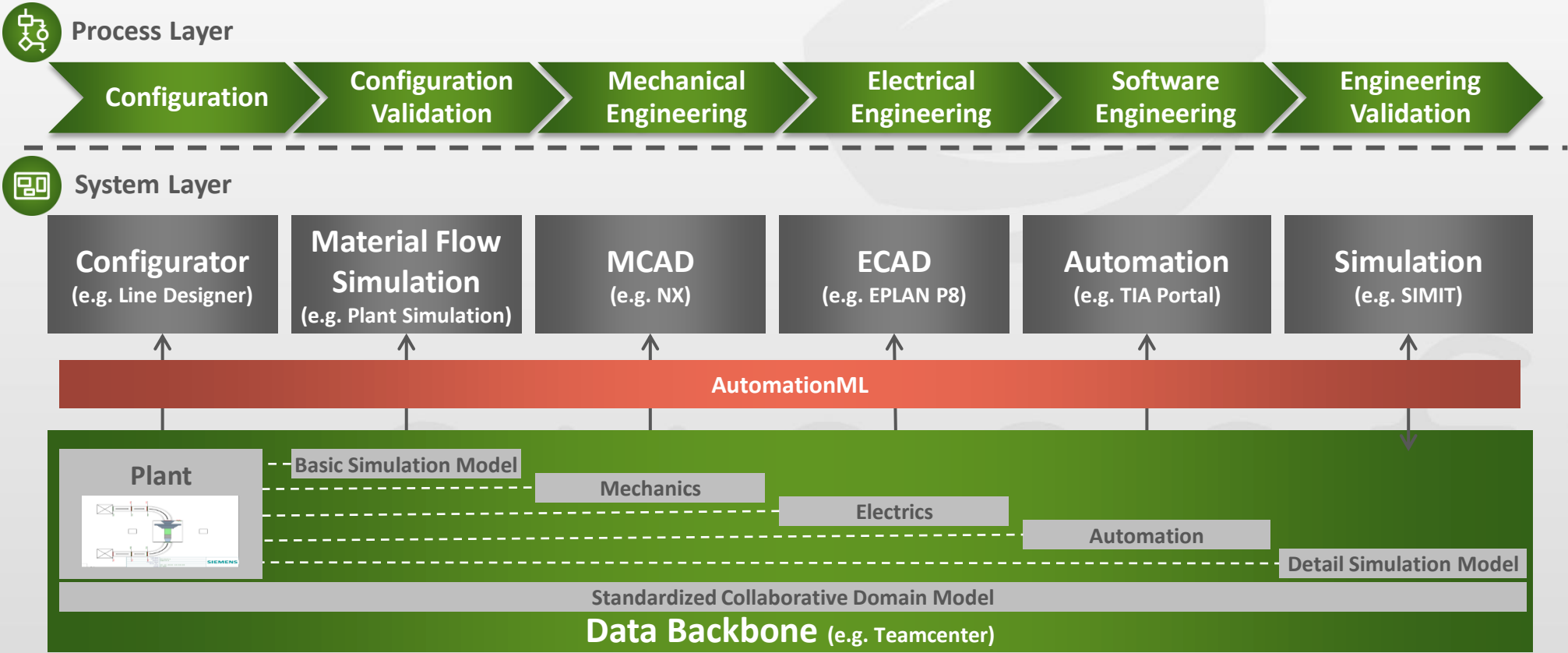


Functional Engineering – the foundation for integrated engineering

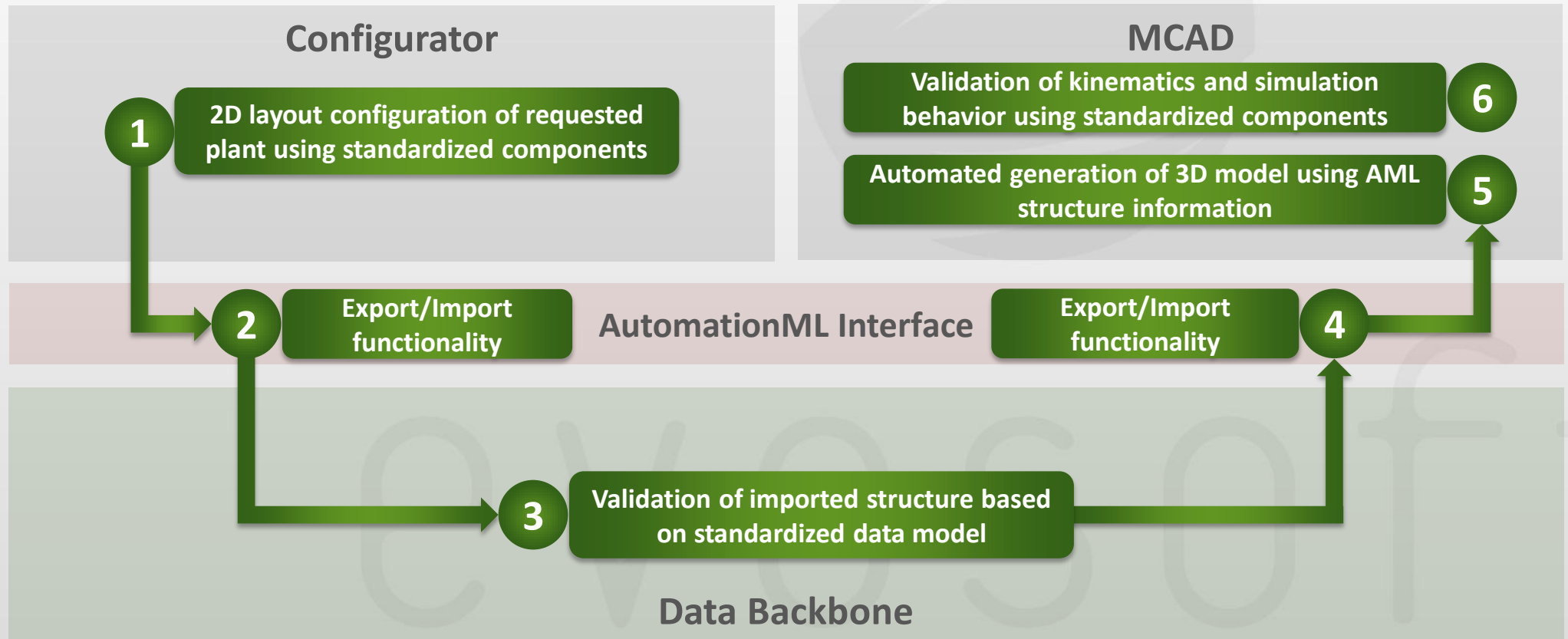


Functional Engineering is the decomposition of complex plants and machines into functional units and mechatronic/technological objects.

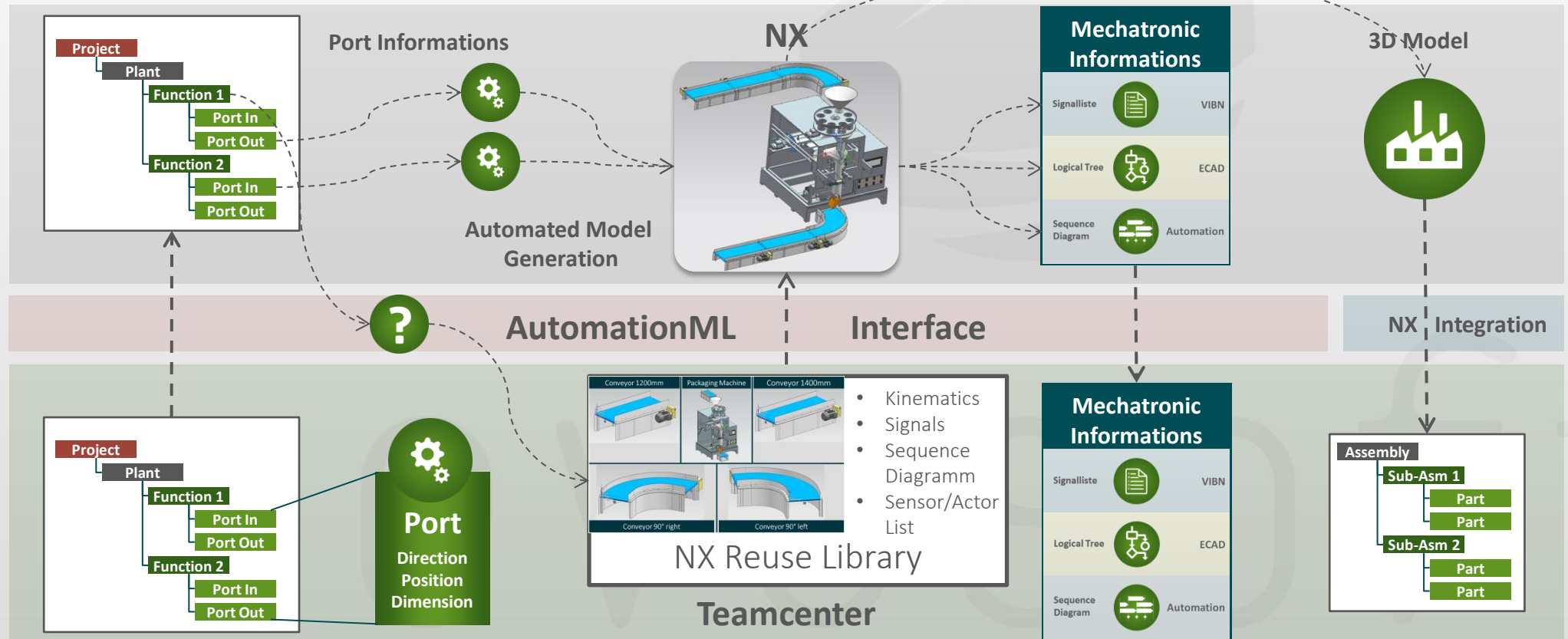
Following the vision of seamless integration along the engineering process based on AutomationML



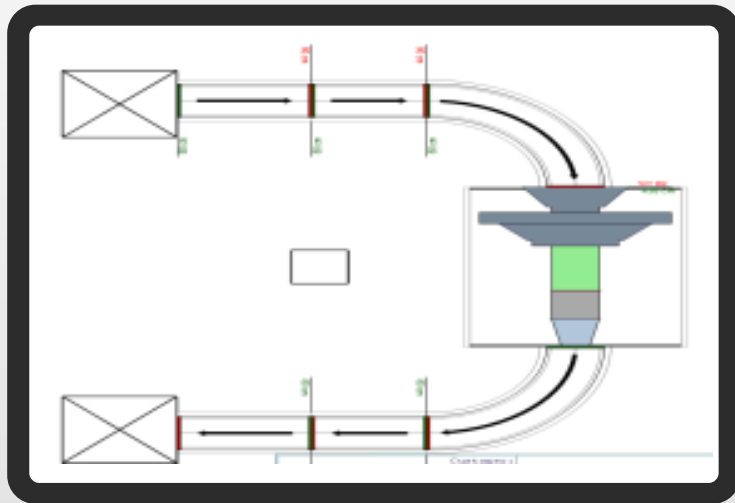
Required process steps from configuration to mechanical model using AutomationML-based integration



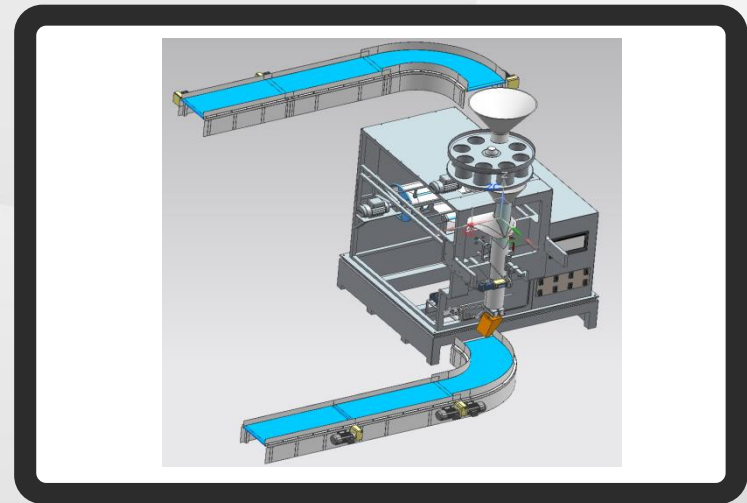
Sample architecture overview of AutomationML interface based on Siemens Teamcenter and NX



Live Demonstration with Siemens Teamcenter and NX



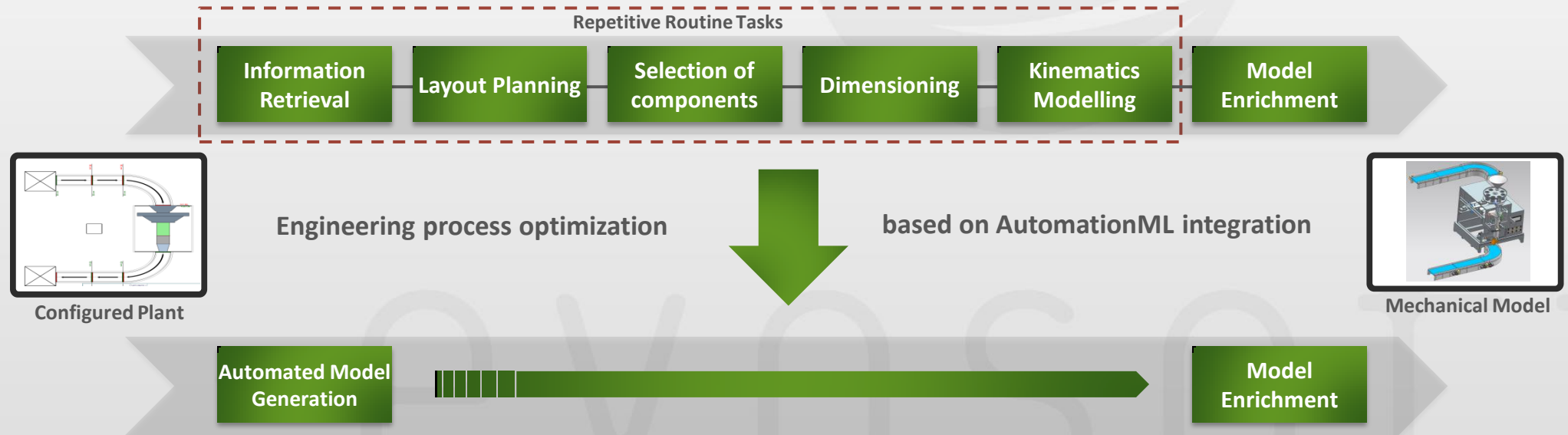
Configured Plant



Mechanical Model

Efficient engineering with AutomationML-based process integration and suitable standardization strategies

- AutomationML-based integration approach reduces repetitive routine tasks to a minimum



Future Steps – Extend usage of AutomationML to realize further process optimization potentials

AutomationML-Extension

Integrate further structures and formats into AutomationML interface layer

- PLCOpen XML
- COLLADA or JT
- eCl@ss
- OPC OA

Process optimization/automation

Integrate further domains into engineering process using AutomationML to realize optimization potentials

- Integration of the electrical engineering domain with automated electrical model generation
- Integration of the software engineering domain with automated project generation
- Integration of the simulation domain with automated simulation model generation
- Integration of the engineering and manufacturing domain



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RUN A WINNING SYSTEM

Your powerful partner

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