

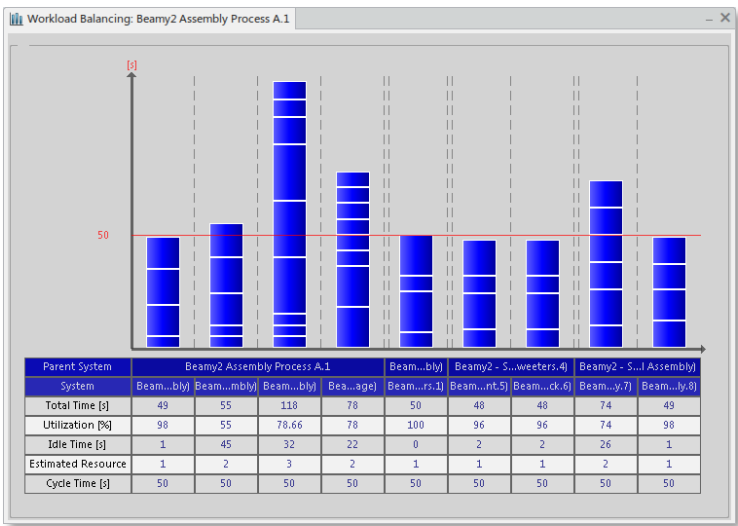
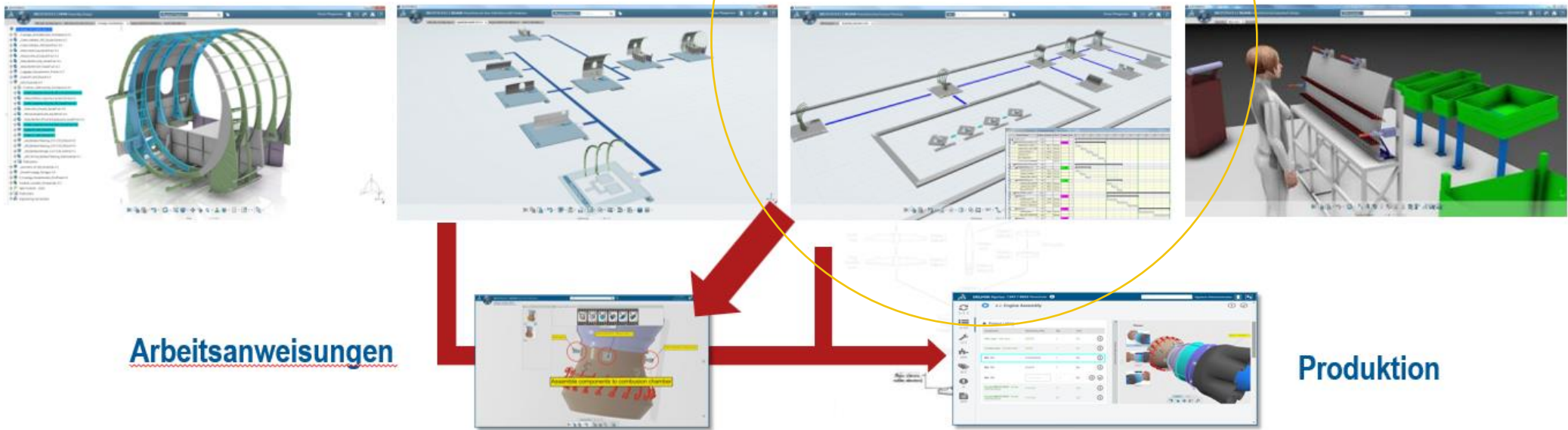
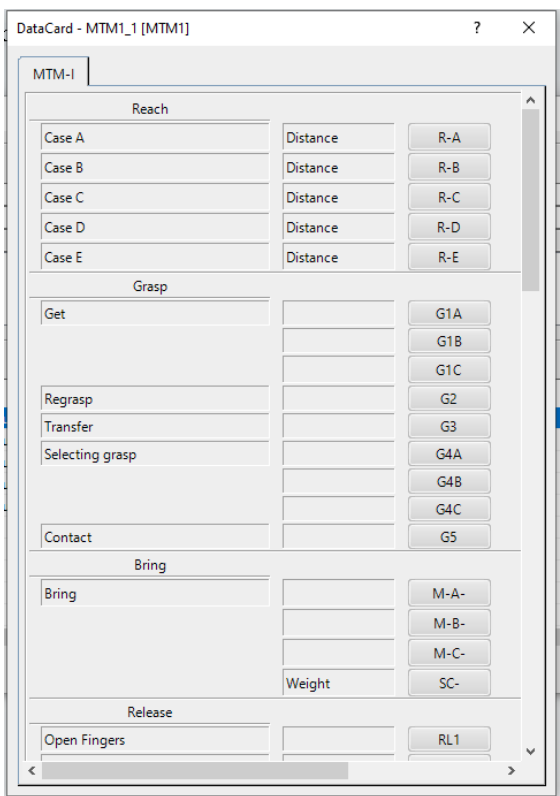
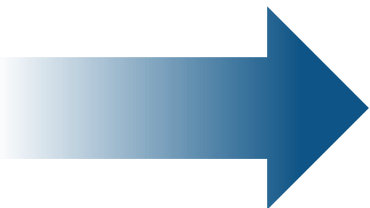
Innovative Lösungen für die
Fertigung von morgen

NC und Robotik

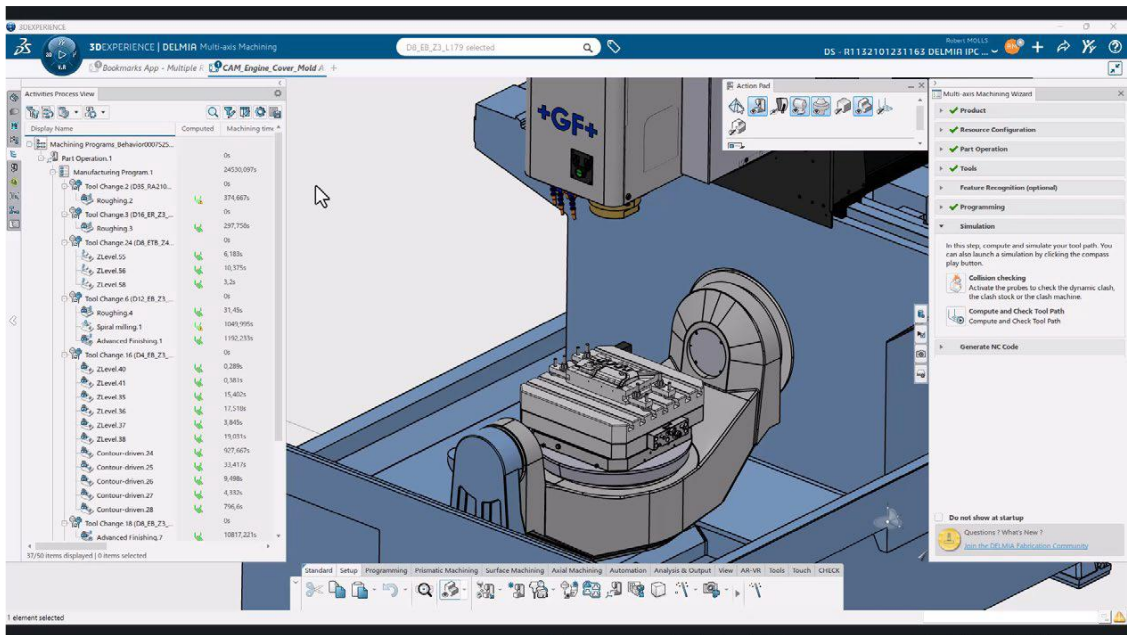
Kudentag

04.11.2025

Prozessdefinition



NC Programmierung



Robotik

NC Programmierung

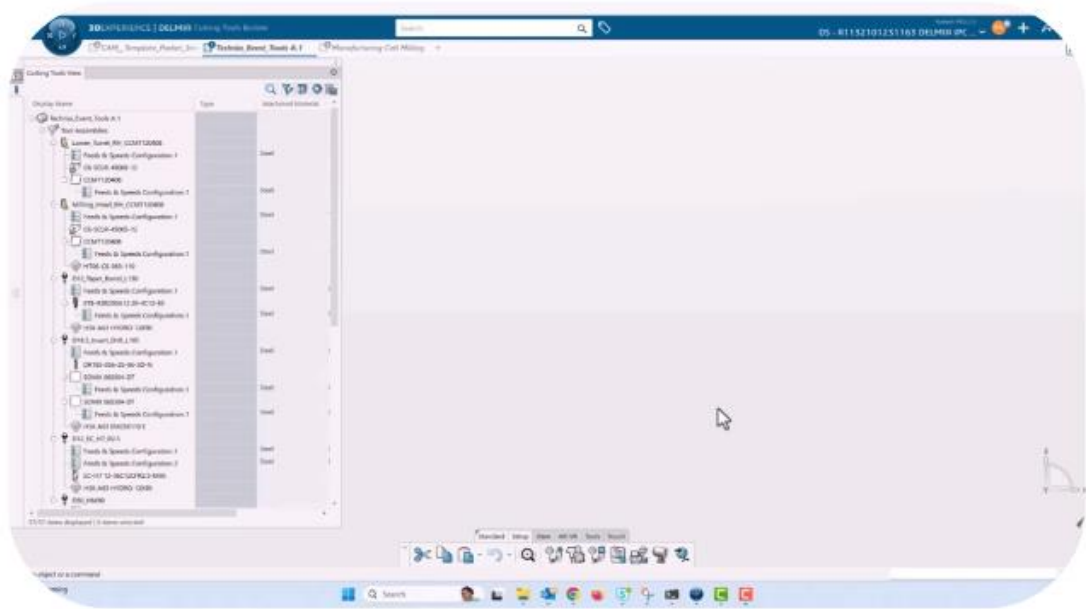
- **Resource Management**
 - Tools, Accessories, Machines
- CAM-Workflow
- Mold & Die
 - Machine Kinematics
 - Synchronization and Sequencing
 - Knowledge Capitalization

Cutting Tools Import

Access web based vendor catalogs directly from the 3DEXPERIENCE platform to download realistic representations of tools or components (ISO13399). Build tool assemblies and manage cutting parameters depending on material, application or quality on component and assembly level.



Cutting Tool Builder

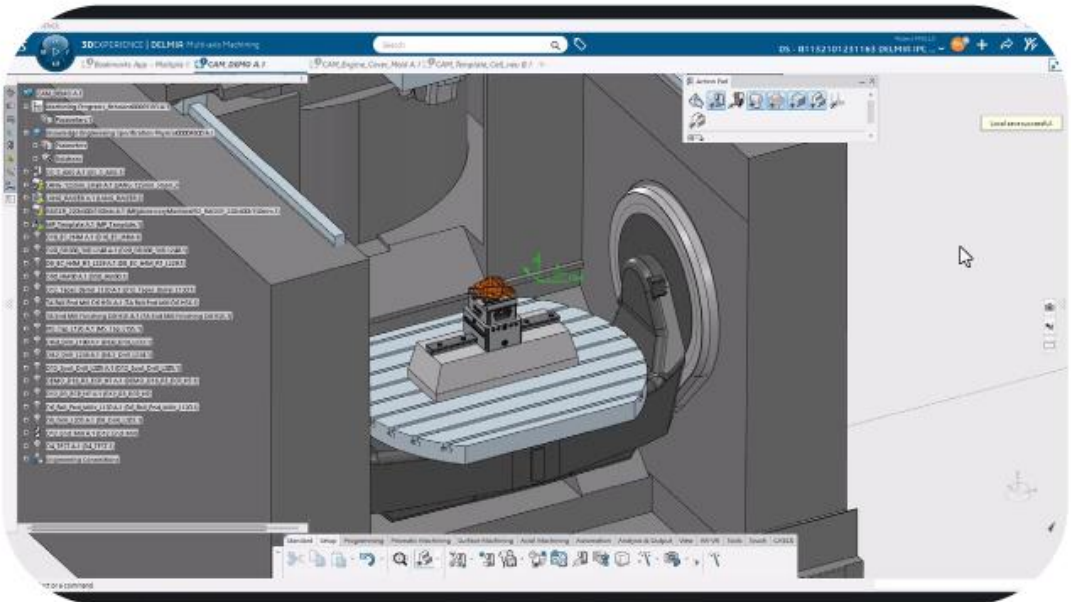


Equipment Design

Easy to use component based definition of kinematics allows you to build reusable accessories e.g. vices, jigs & fixtures with kinematics that function like real machines and fixtures.

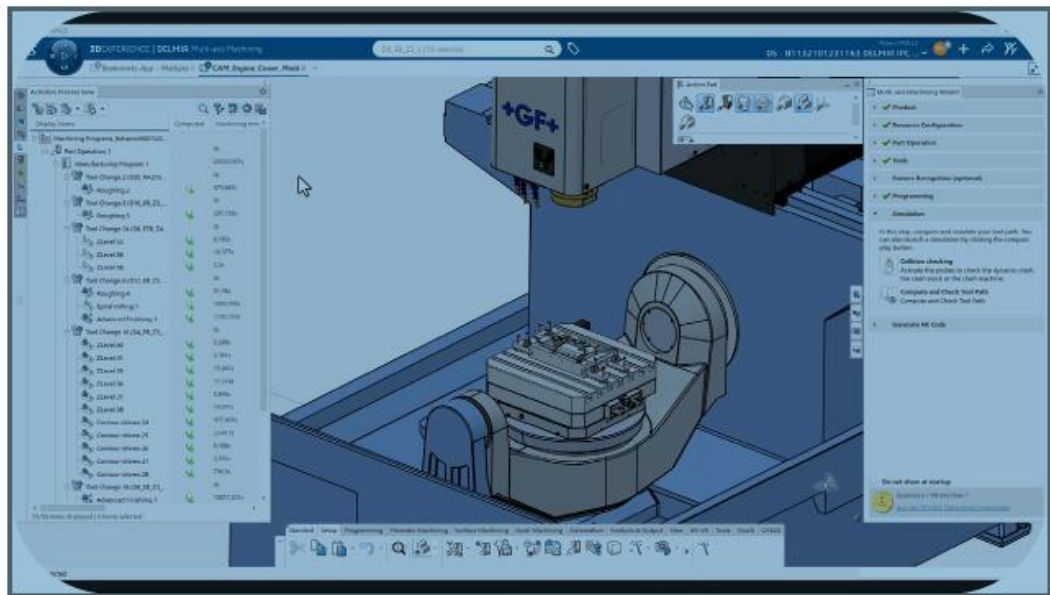


Equipment Design



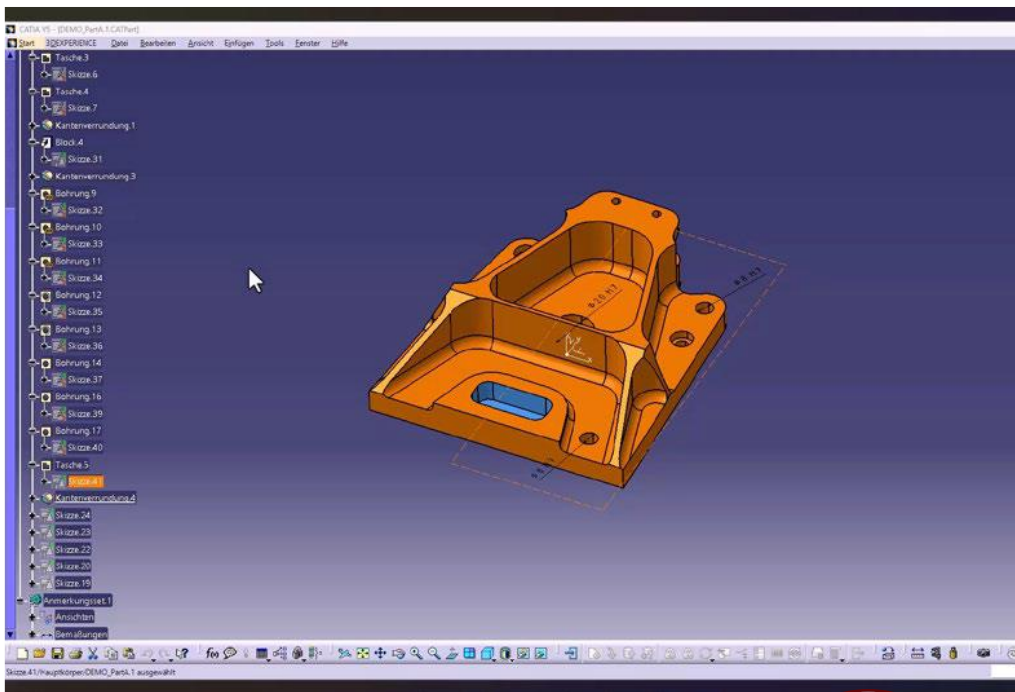
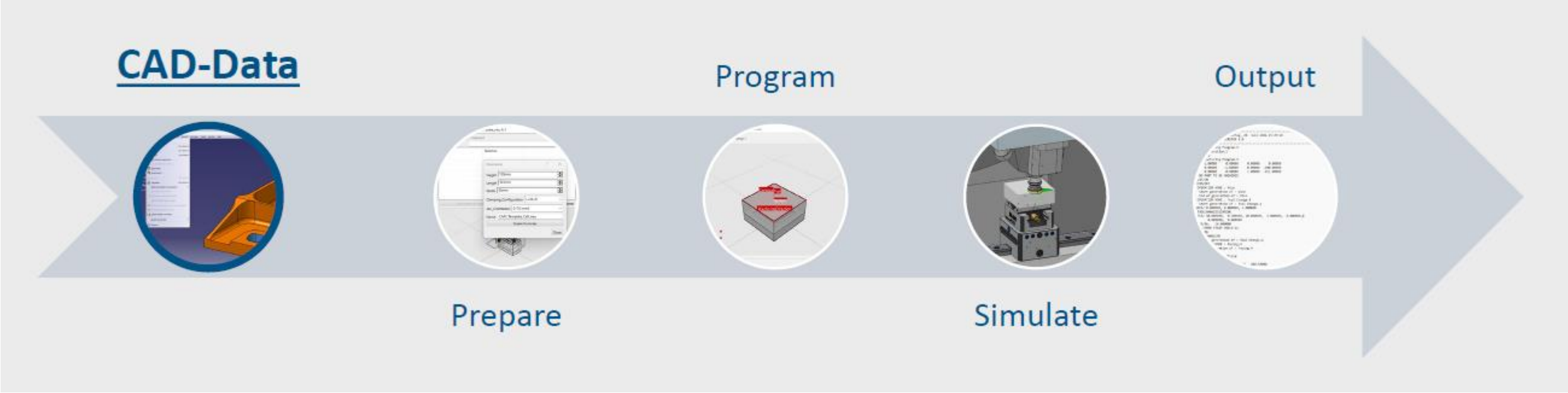
Relations

All objects in the database are unique with their own lifecycle (draft, in work, released, obsolete). 3DEXPERIENCE allows users to explore the links between different objects on the database. Giving them valuable insights into what resources are used for which processes.

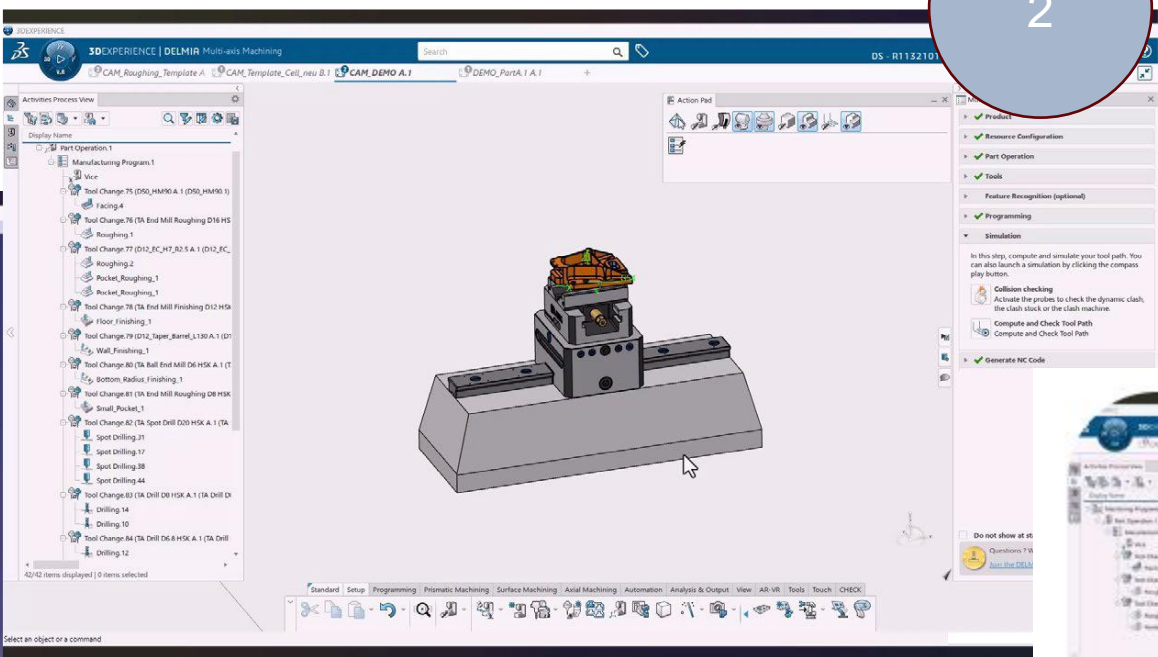


NC Programmierung

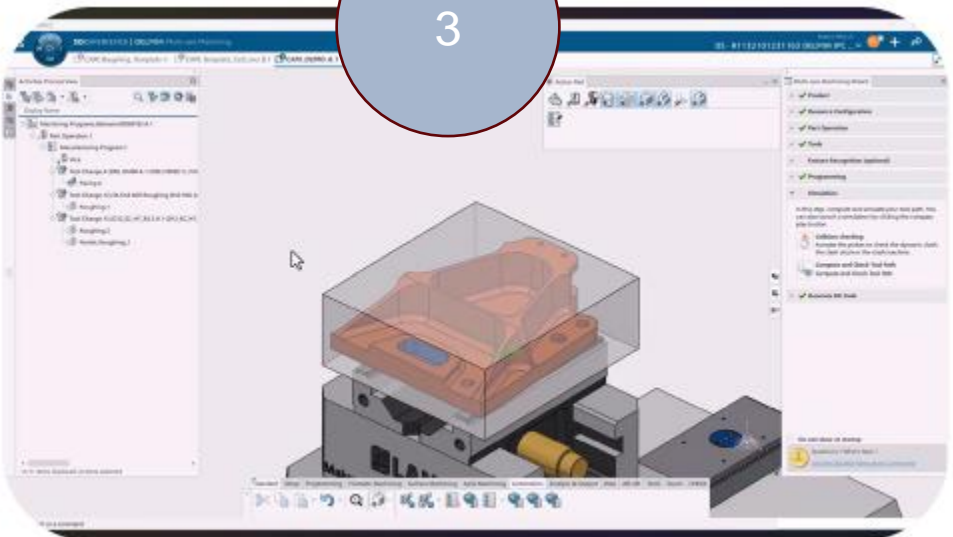
- Resource Management
 - Tools, Accessories, Machines
- CAM-Workflow
- Mold & Die
- Mill-Turn
 - Machine Kinematics
 - Synchronization and Sequencing
 - Knowledge Capitalization



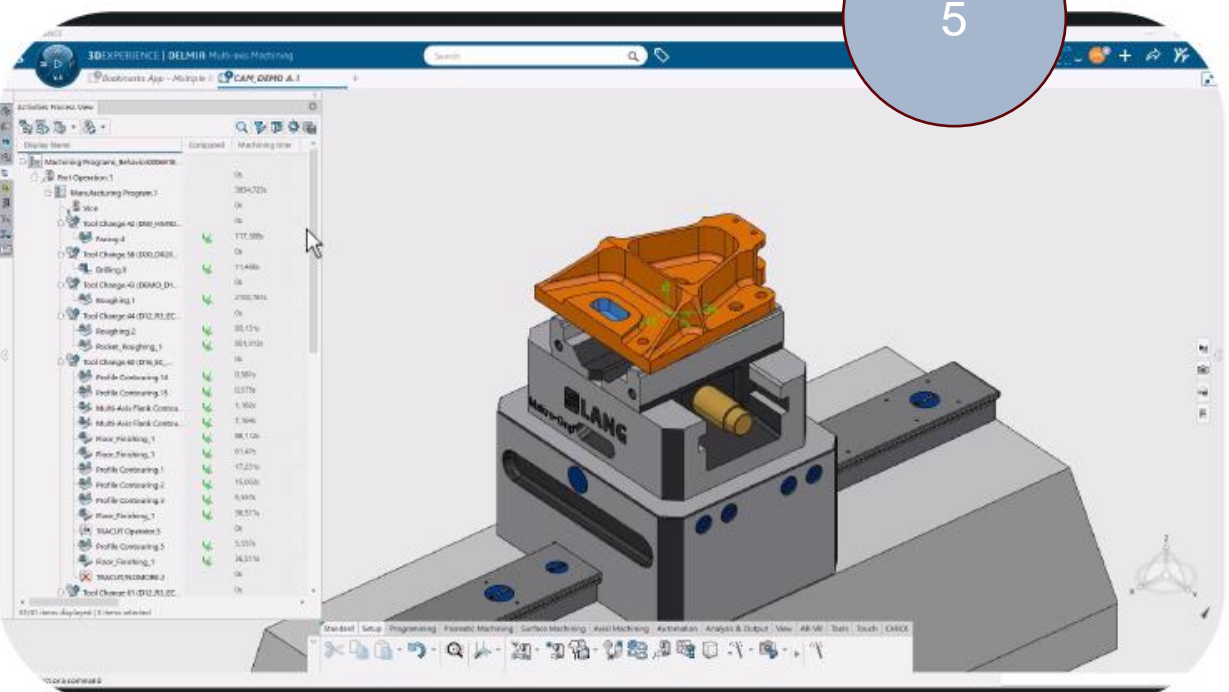
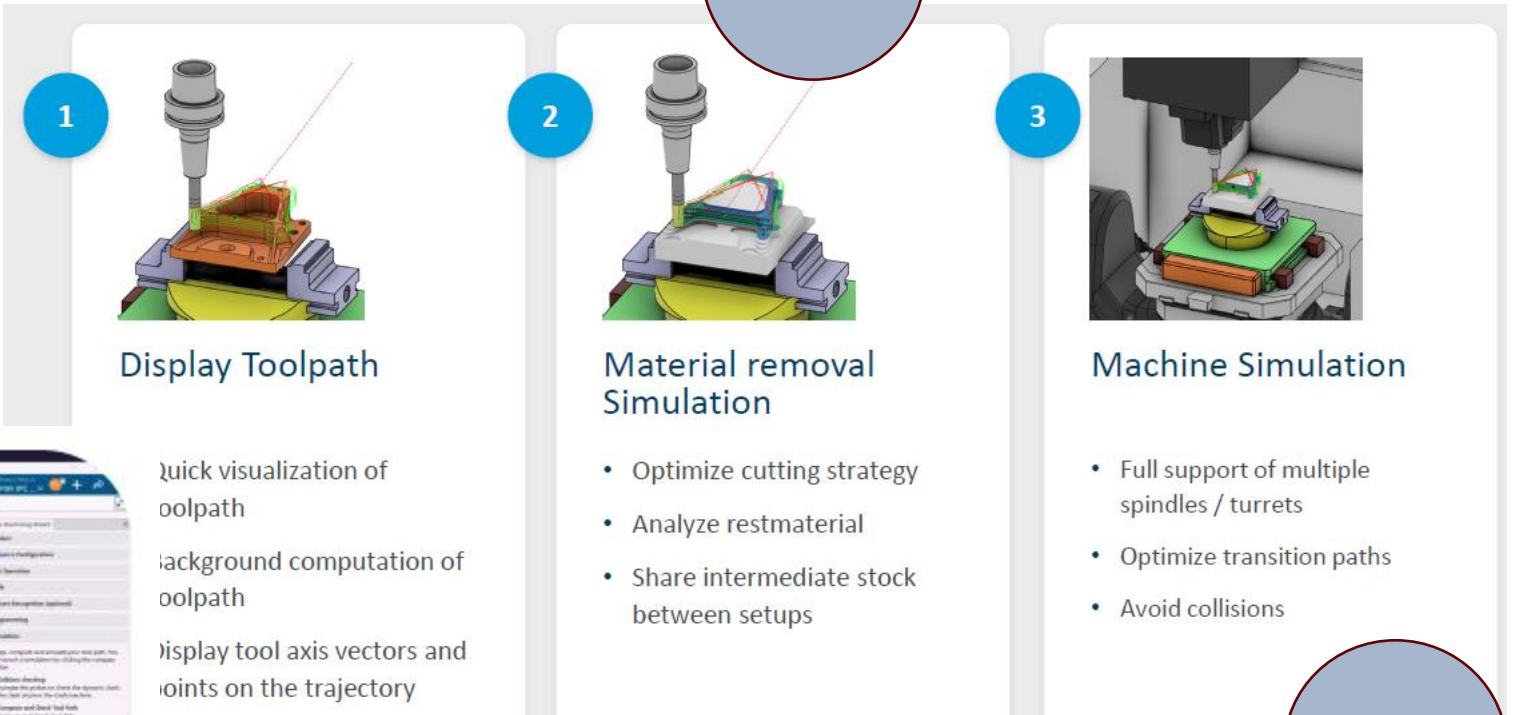
1



2



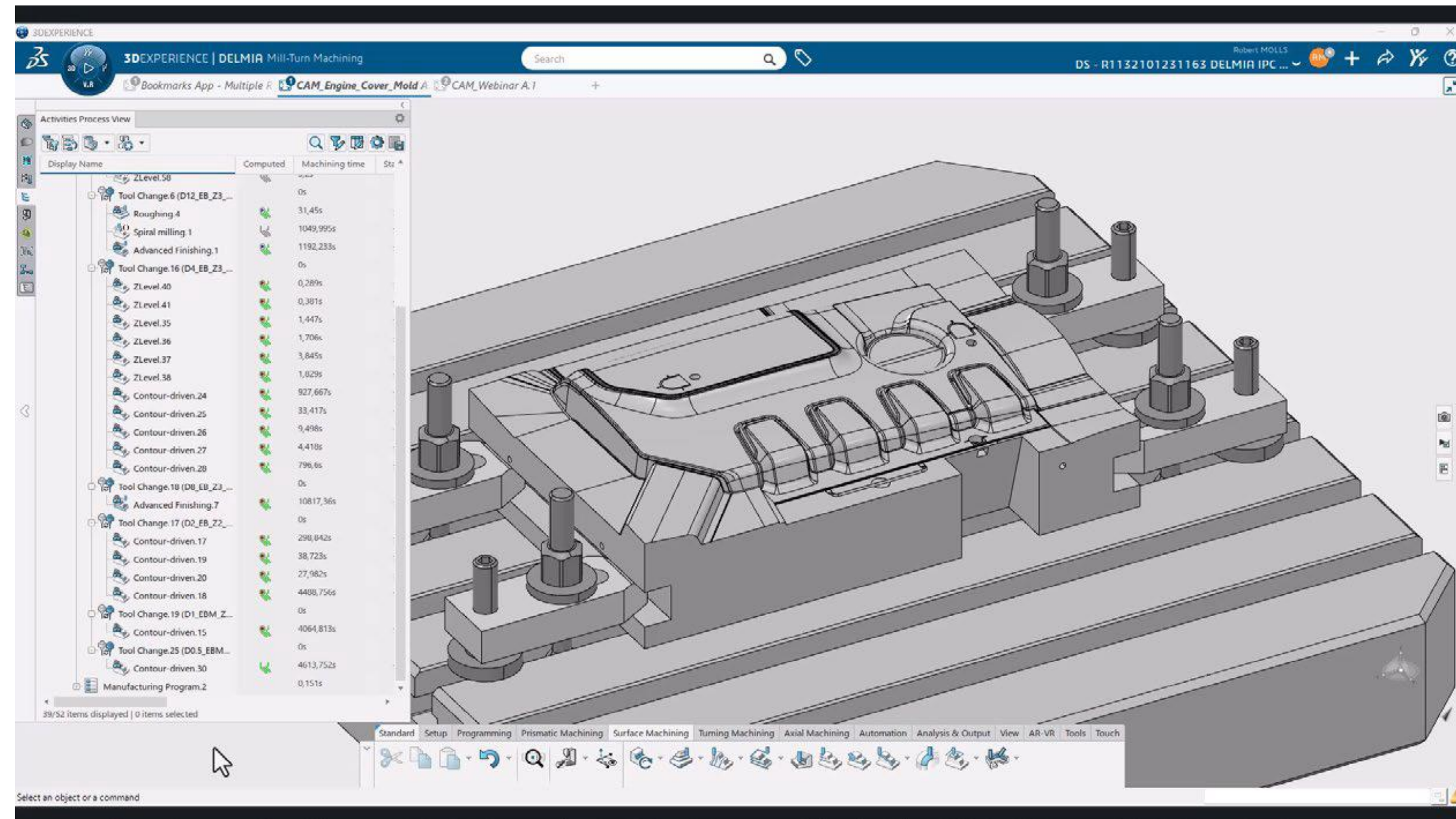
3



5

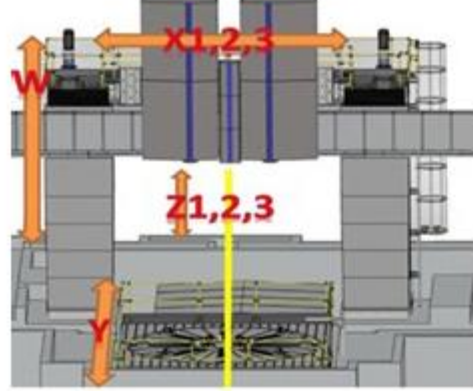
NC Programmierung

- Resource Management
 - Tools, Accessories, Machines
- CAM-Workflow
- Mold & Die
- Mill-Turn
 - Machine Kinematics
 - Synchronization and Sequencing
 - Knowledge Capitalization



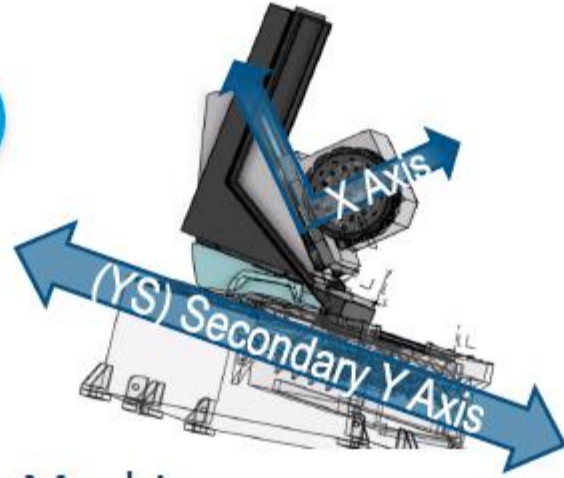
NC Programmierung

- Resource Management
 - Tools, Accessories, Machines
- CAM-Workflow
- Mold & Die
- Mill-Turn
 - Machine Kinematics
 - Synchronization and Sequencing
 - Knowledge Capitalization

1


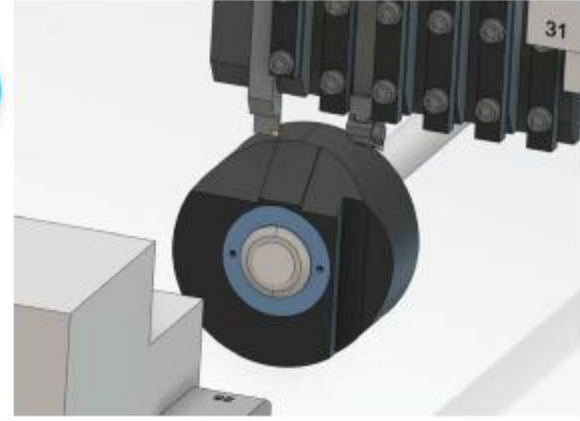
Machine Configurations

- Comprehensive support for any Millturn configuration
- Multi Head, Multi Axis Machine with a common cross rail

2


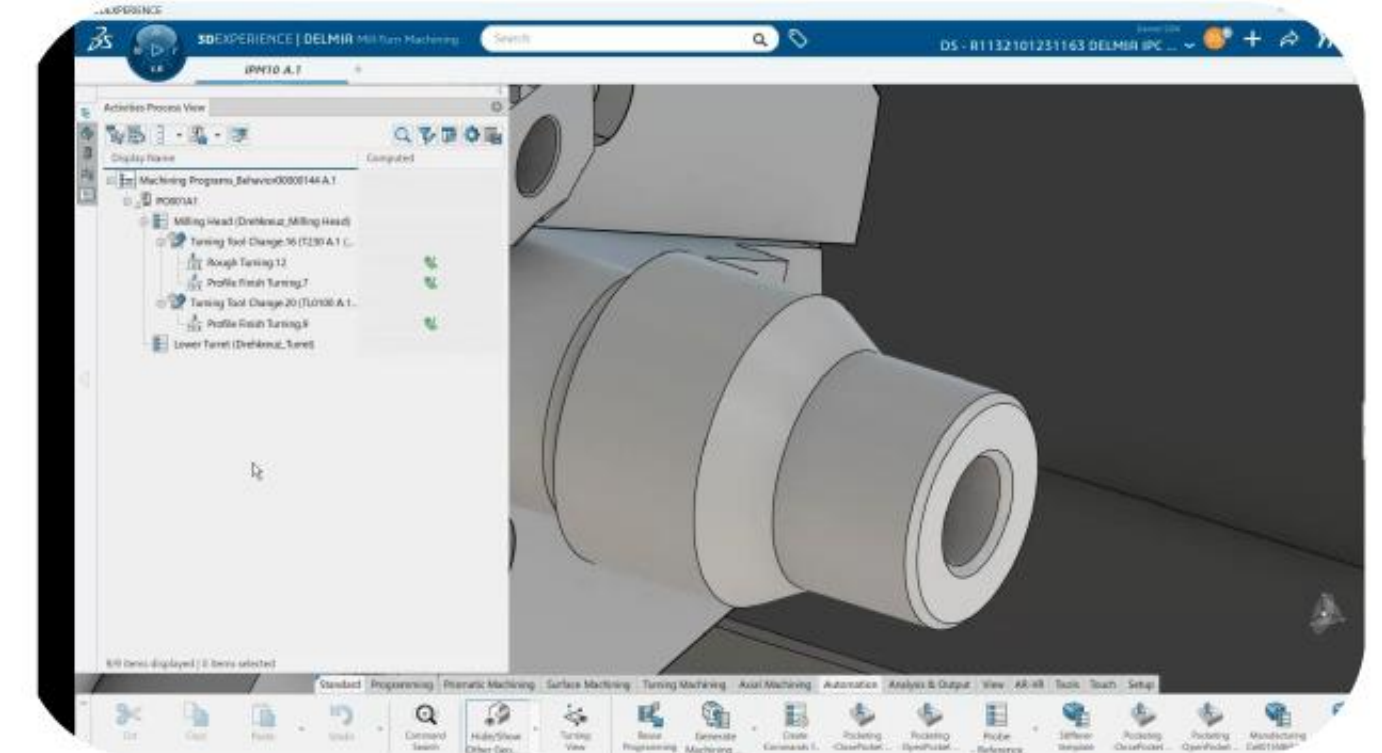
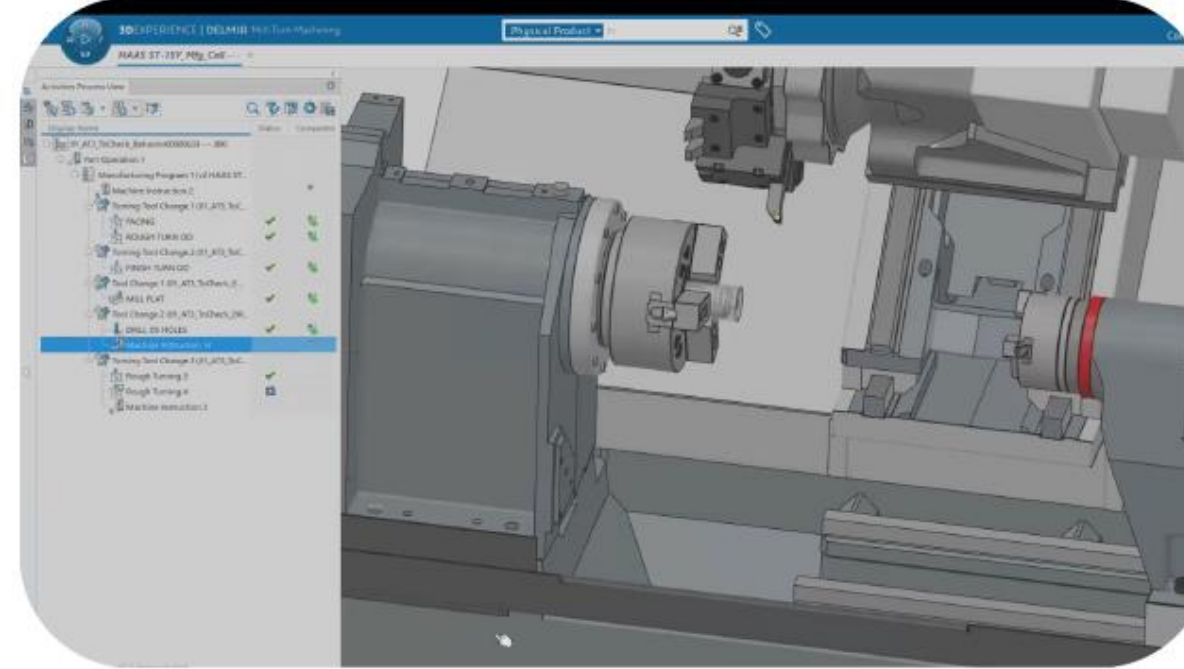
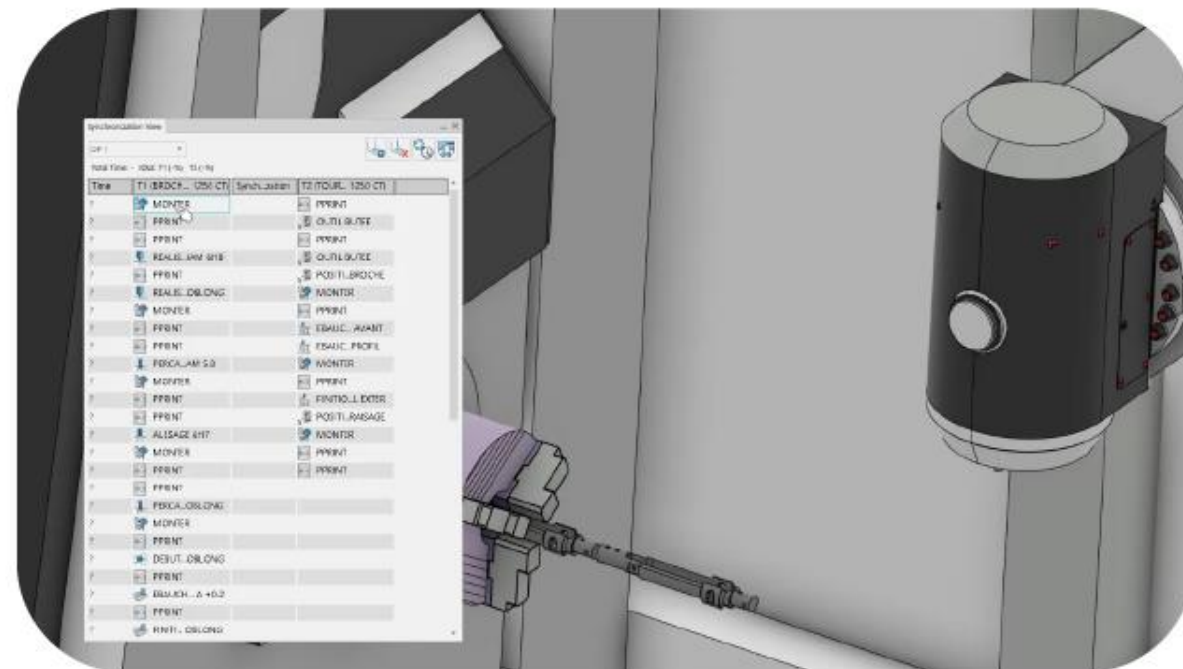
Machine Configurations

- Complex kinematic motions defined through relations
- Additional Resource accessories : probes, chucks, adapters, etc...

3


Machine Simulation

- Swiss Machine Support
- Multiple Channels defined



Robotik



Material Handling



- Pick & Place
- Remote Handling



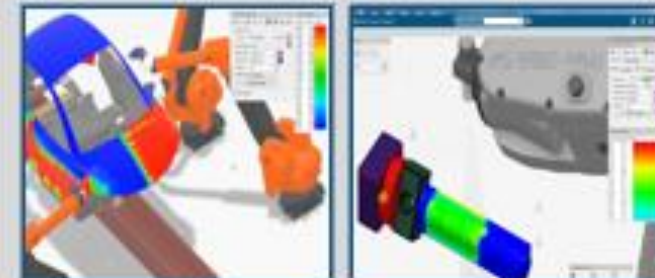
Point-to-Point Process



- Spot Welding
- Drilling & riveting



Surface Process



- Painting
- Non-Destructive Testing
- AFP/ATL for Composites
- Flaming
- Sand Blasting
- Shot peening
- Polishing



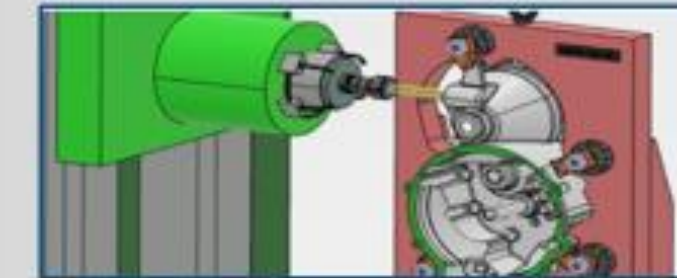
Contour Process



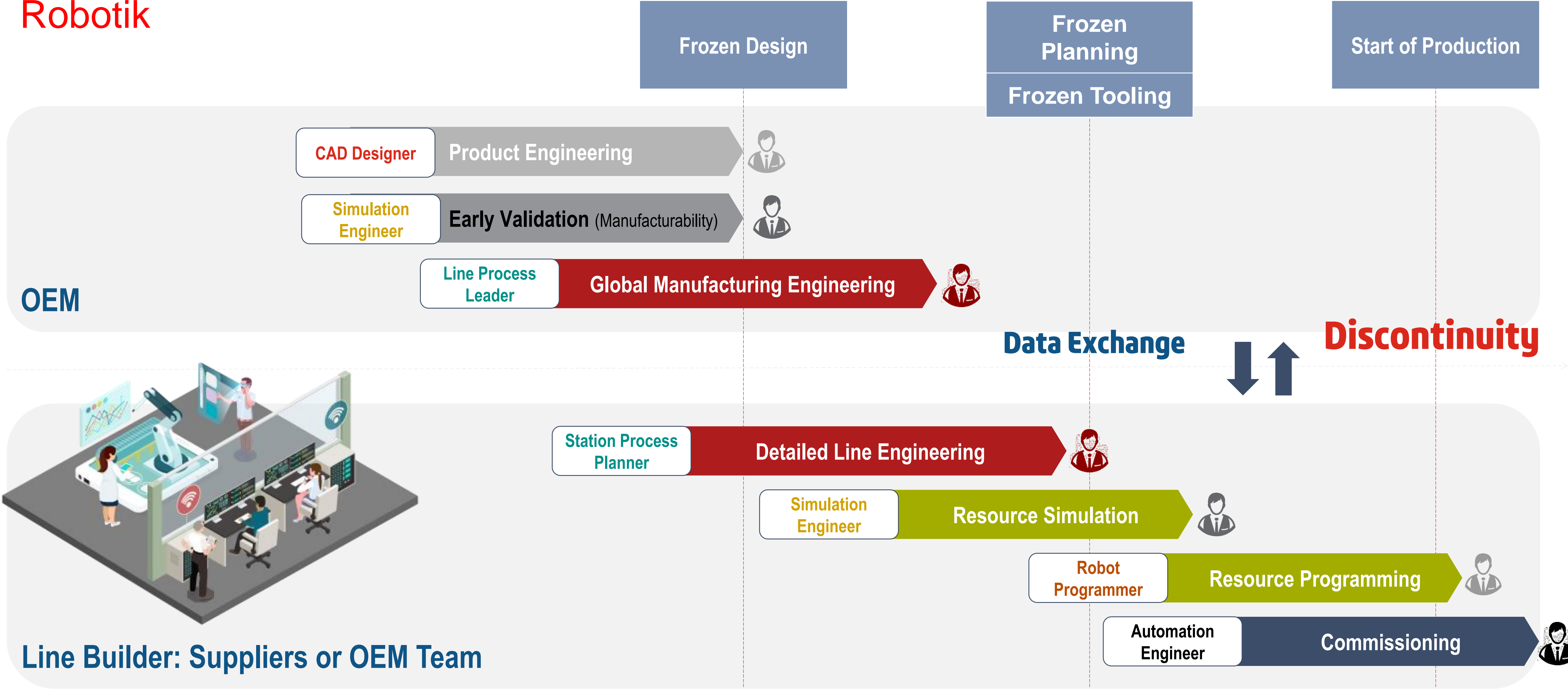
- Contouring
- Arc Welding
- Sealant Deposition



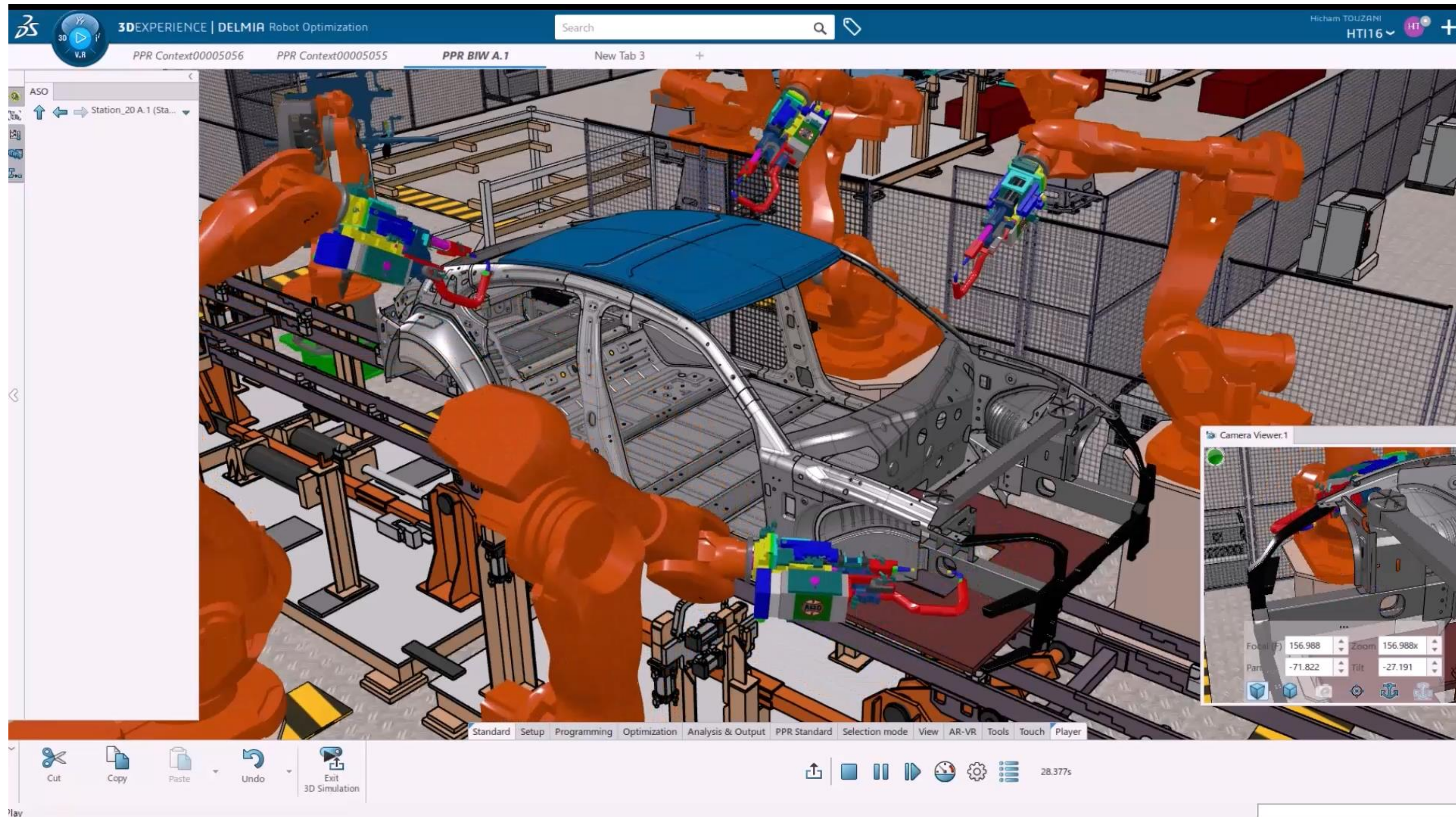
Fabrication Process

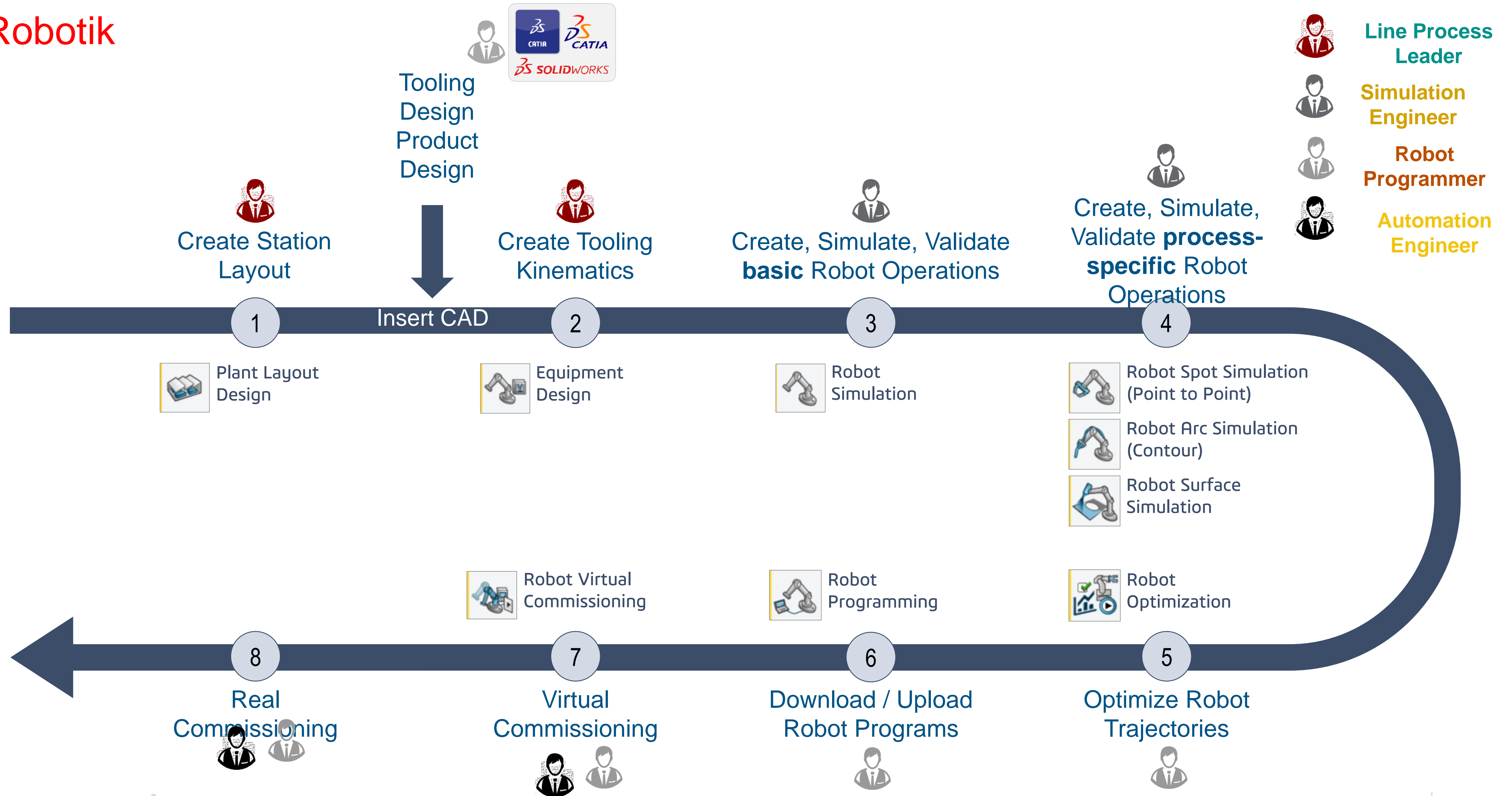


- Machining
- Additive
- Laser Cutting



Robotik







Danke für Ihre Aufmerksamkeit

Bei Fragen bin ich gerne persönlich
für Sie da!



Dr. Martin Feike

Bereichsleiter PLM

+49 176 2068 6007

martin.feike@systemworkx.de