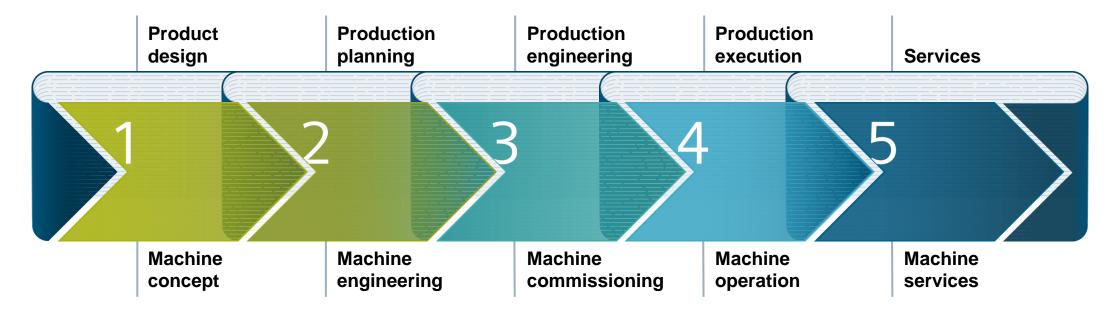


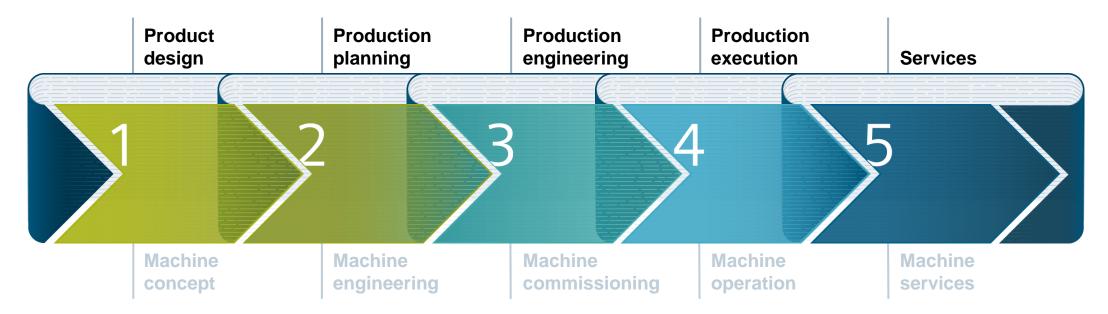


Product manufacturer perspective



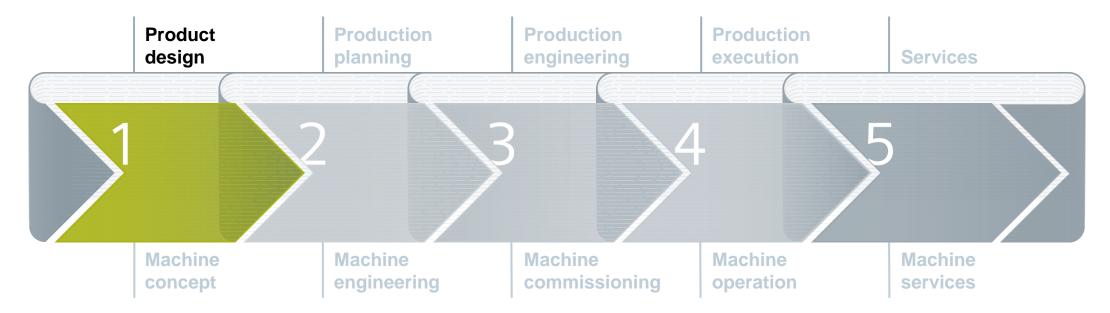


Product manufacturer perspective





Product manufacturer perspective

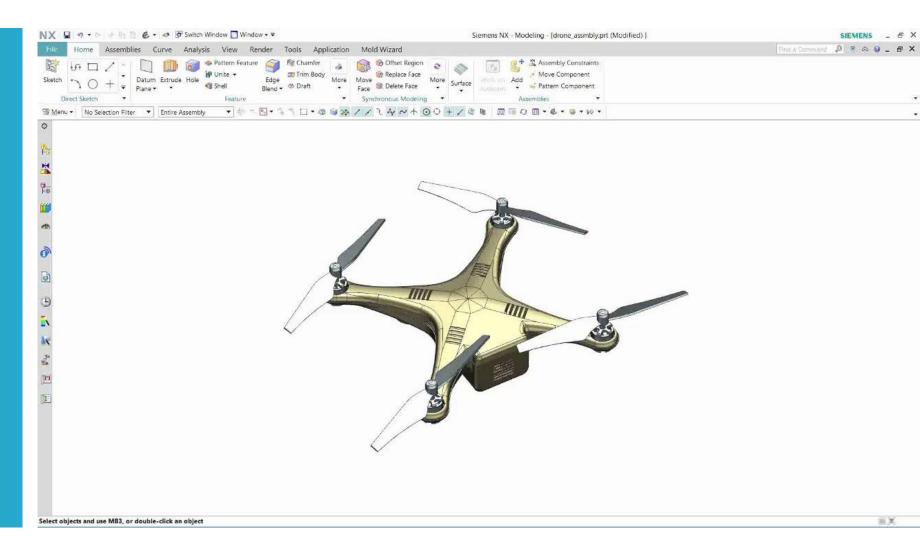


Product design



Design and simulate the product

NX CAD/CAE/CAM NX Mold Design

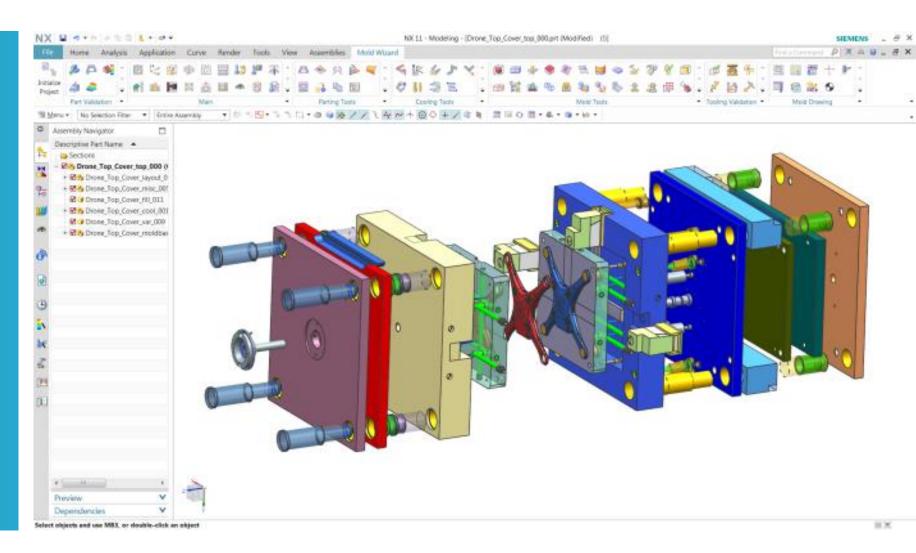


Product design

SIEMENS Ingenuity for life

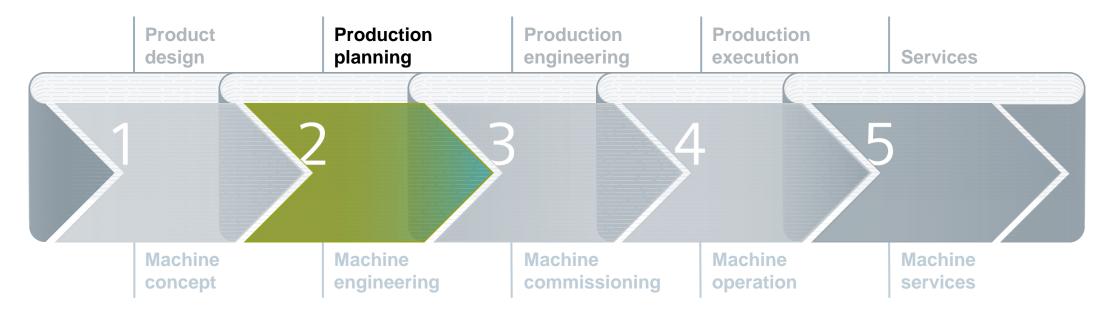
Design and simulate the product

NX CAD/CAE/CAM NX Mold Design





Product manufacturer perspective

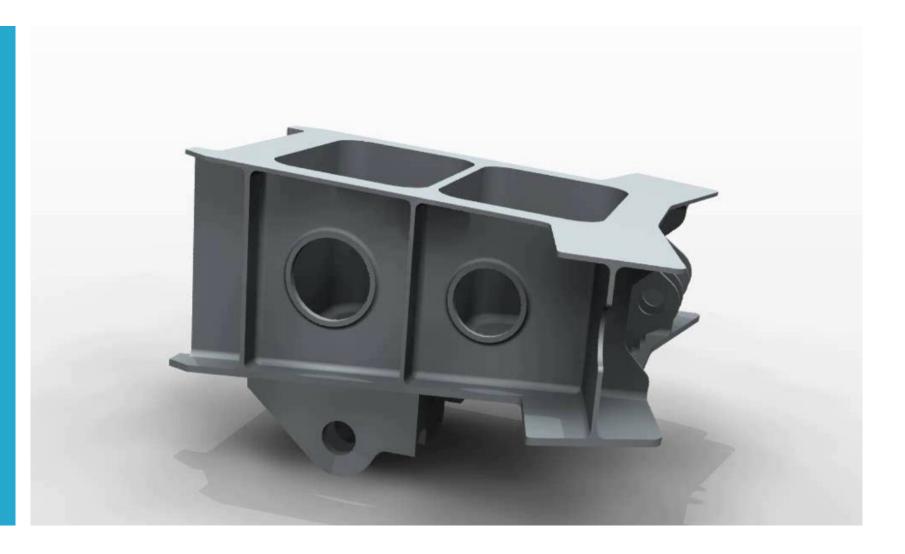


Production planning for part manufacturing



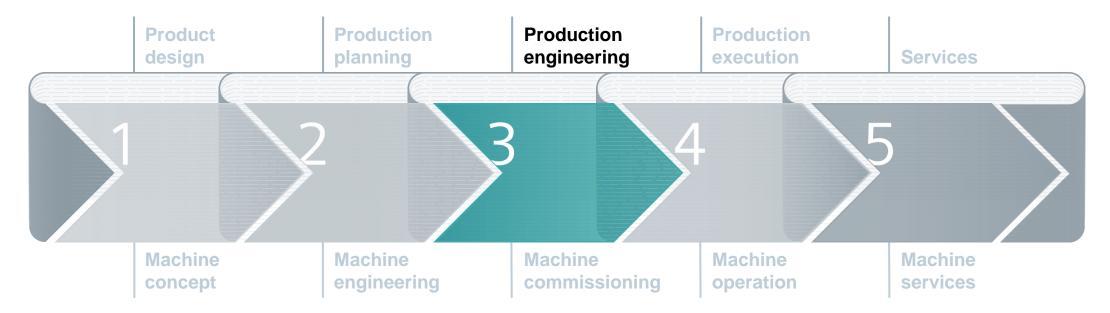
Plan and validate your production process

NX CAM





Product manufacturer perspective

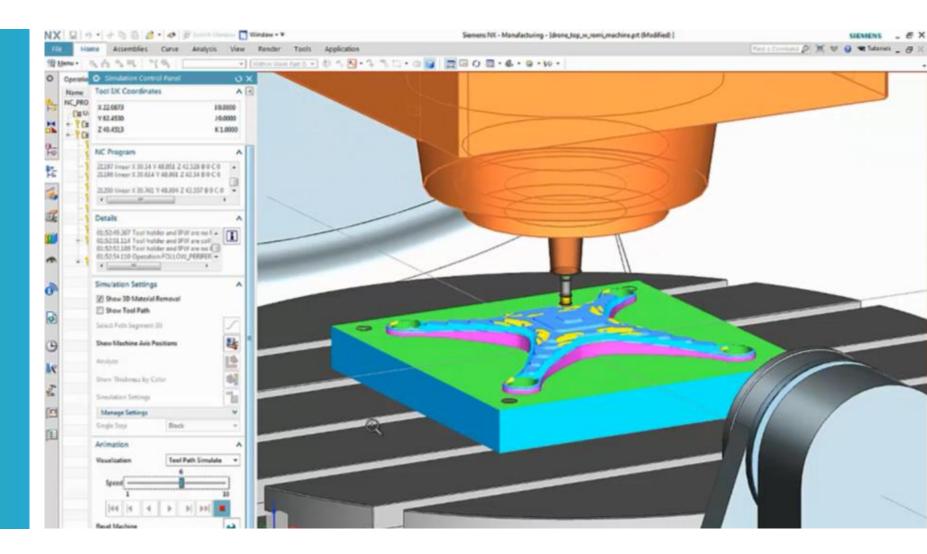


Production Engineering



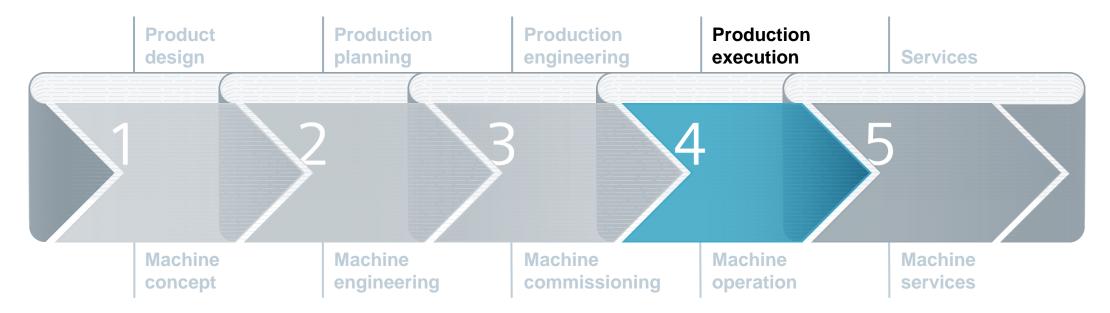
Process planning and job preparation

NX CAM Sinutrain VNCK





Product manufacturer perspective

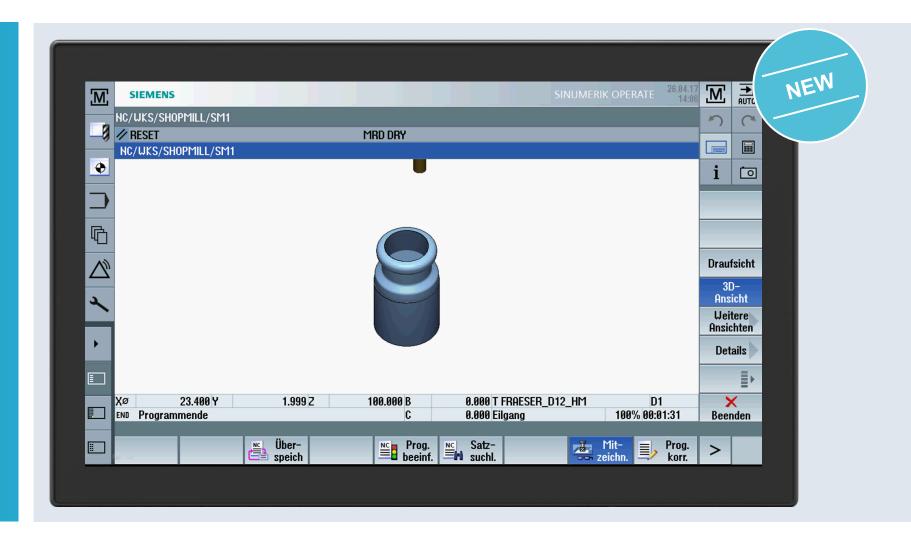


Production execution



Setting the benchmark with smart solutions in machine operation

SINUMERIK Operate Sidescreen



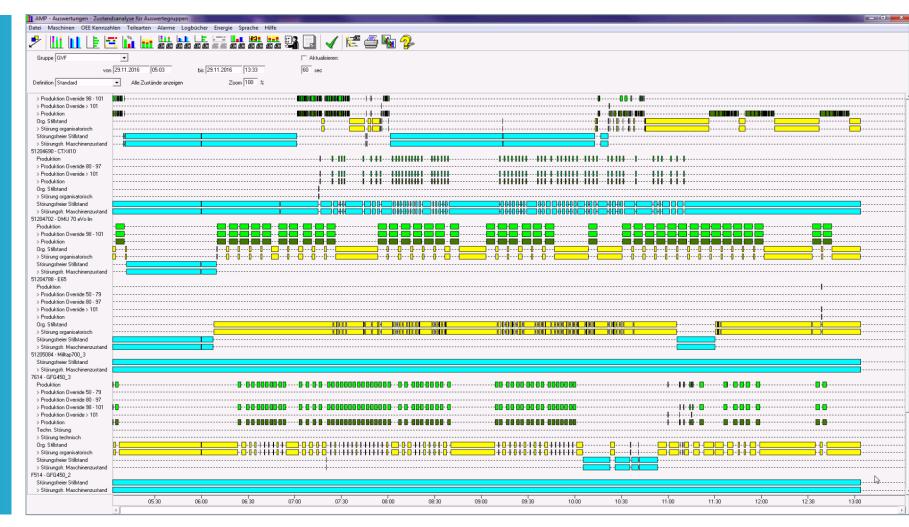
Production execution



Make your production more efficient and flexible

Analyze MyPerformance

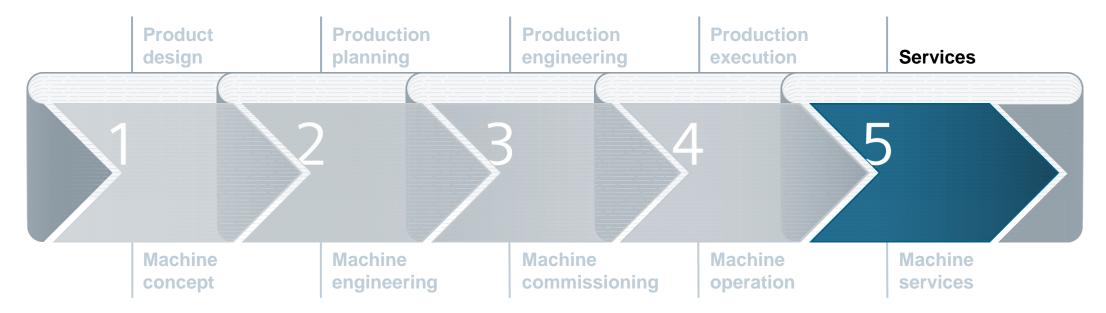
1 2 3 4 5



Source: EWN, Analyze MyPerformance



Product manufacturer perspective

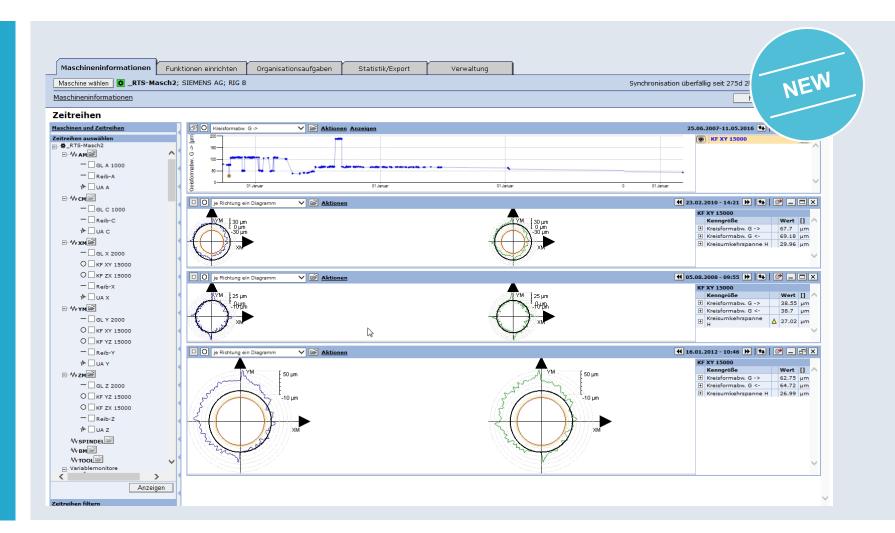


Services



Take over the control of your down-time and service costs

Analyze MyCondition In line

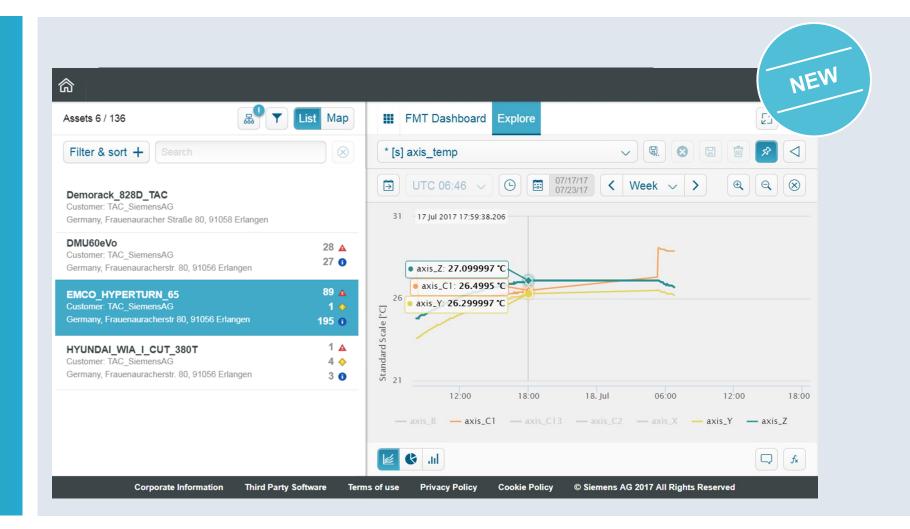


Services



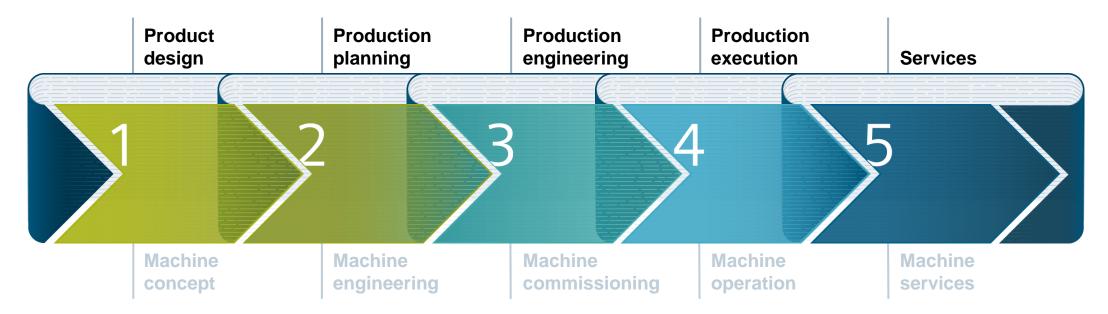
Full transparency over your machines everywhere, at any time

Manage MyMachines for MindSphere





Product manufacturer perspective





MindSphere drives new business opportunities



Quickly and easily connecting real things to the digital world.

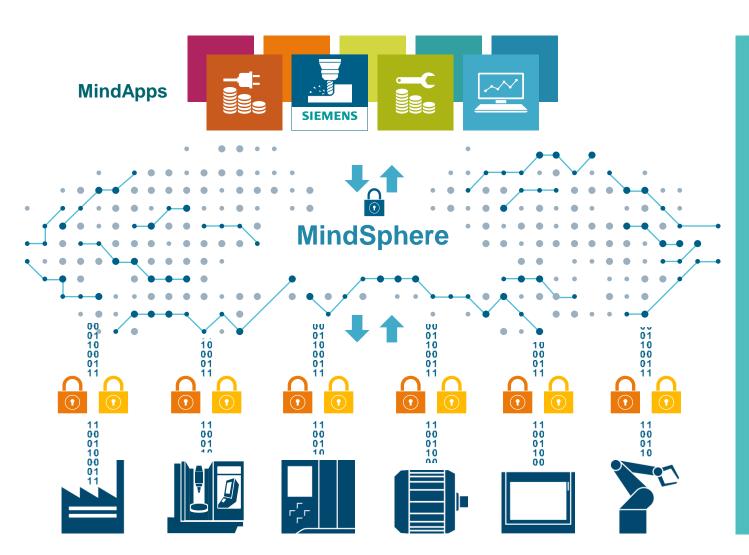
Creating
a strong
partner
ecosystem
with Open
Platform as a
Service (PaaS)

Enabling unmatched closed-loop innovation with complete digital twin

Driving
business
success with
powerful
industry
applications
and digital
services

MindApps – MindSphere – MindConnect





MindApps

Asset transparency and analytical insights into machines, plants, fleets and systems

MindSphere

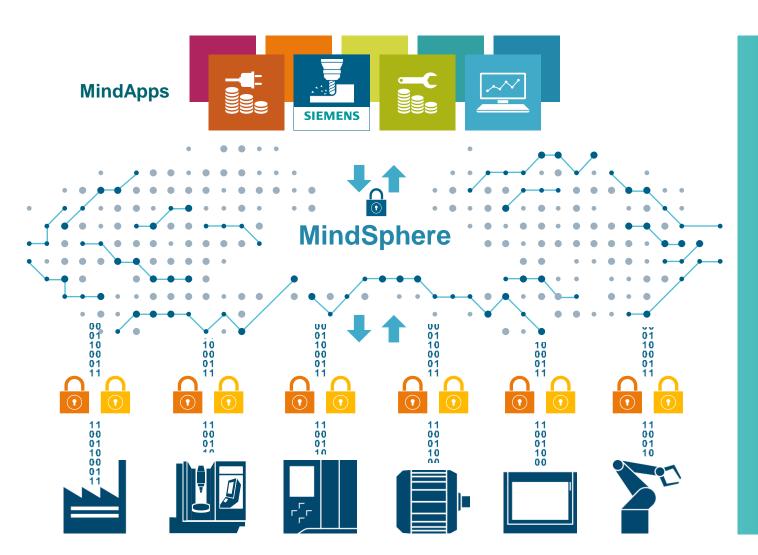
Various cloud infrastructures: Public, private or on-premise

MindConnect

Secure plug and play connection of Siemens and third-party products

MindConnect





Connecting Products, Plants, Systems and Machines with MindConnect

Open standards for connectivity, e.g., OPC UA

Plug and play connection of Siemens and 3rd party products

Secure and encrypted data communication

MindSphere enables customers

to get started quickly









STEP 1 CONNECT

Get MindSphere user account, receive and integrate directly with Sinumerik or integrate Connector Box into machine / equipment

STEP 2 CONFIGURE

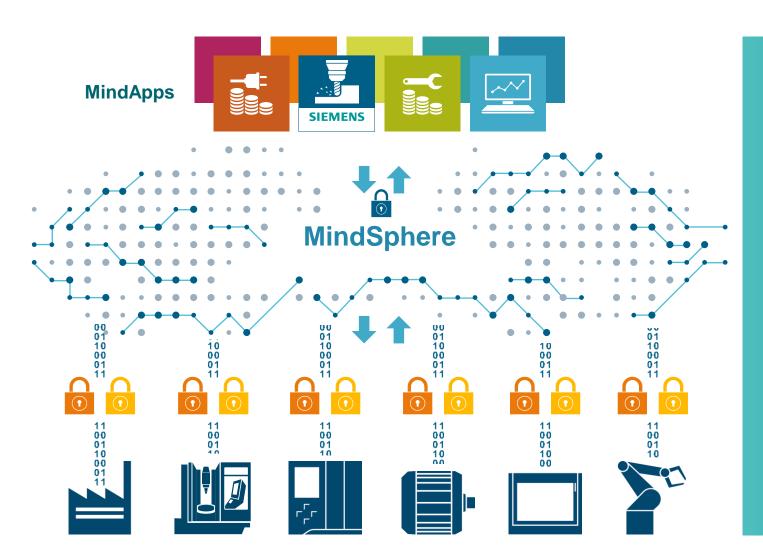
Configure data acquisition, connectivity and Visual Analyzer via MindSphere

STEP 3 GO

Monitor e.g. health status of all assets and drill into details using MindApp Manage MyMachines or Fleet Manager

MindSphere



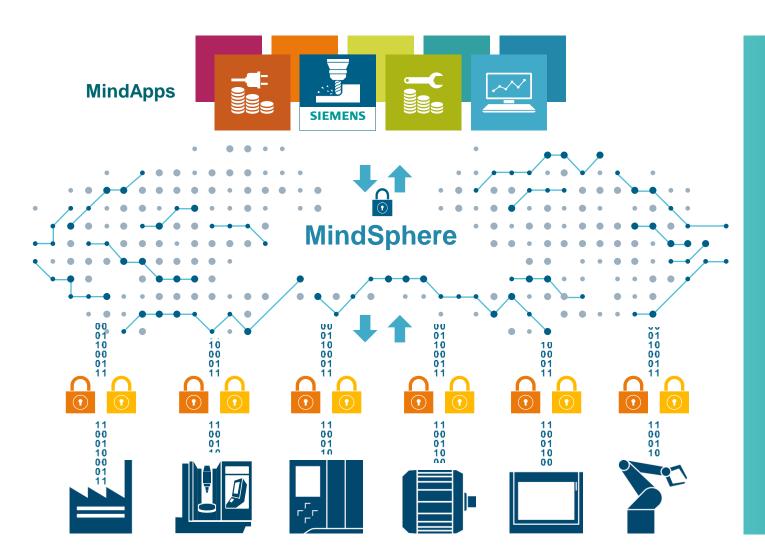


Open interfaces for development of customer and industry specific apps

Leading Cloud Infrastructure: SAP, AtoS, Microsoft Azure and Amazon Web Services offered as public, private or on-premise

MindApps





Delivering value with asset transparency and analytical insights into machines, plants, fleets and systems

Open Partner Ecosystem with application marketplace



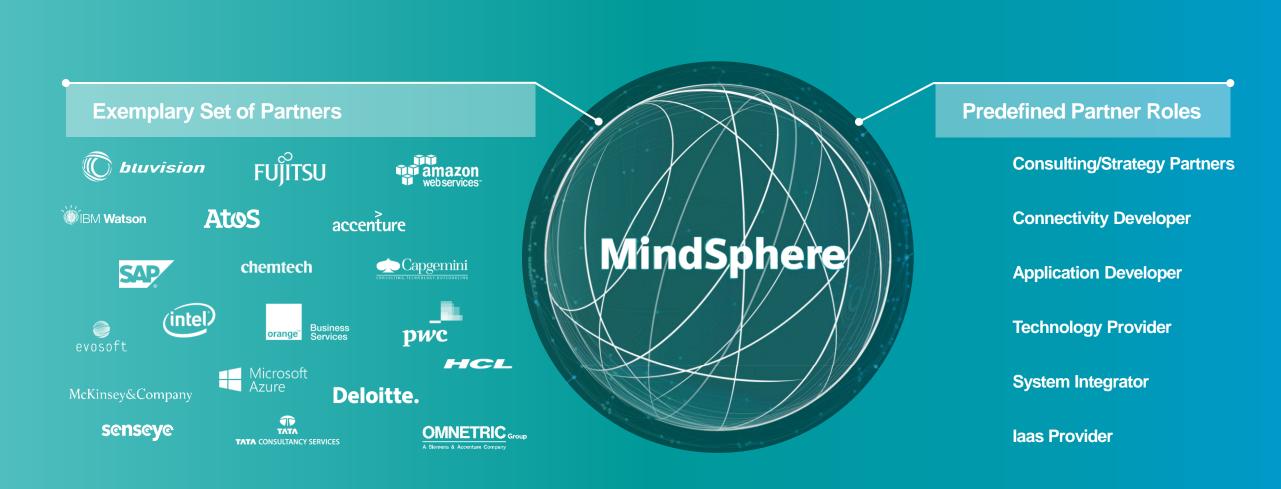
Always up to date
The key data for your connected components and systems



Automate insight from product performance data to create actionable intelligence with the complete digital twin (PLM / IoT integration)

MindSphere Open Partner Ecosystem

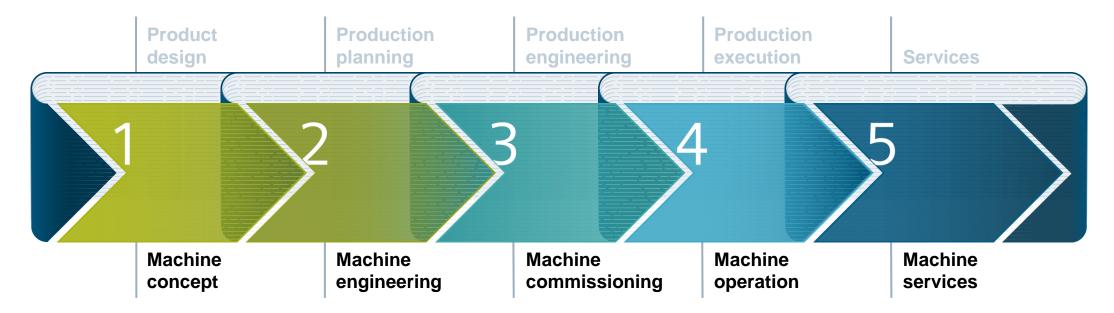






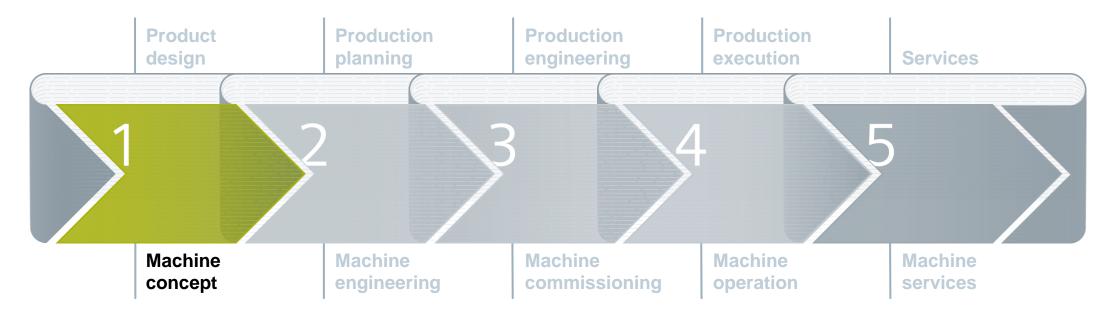


Product manufacturer perspective





Product manufacturer perspective



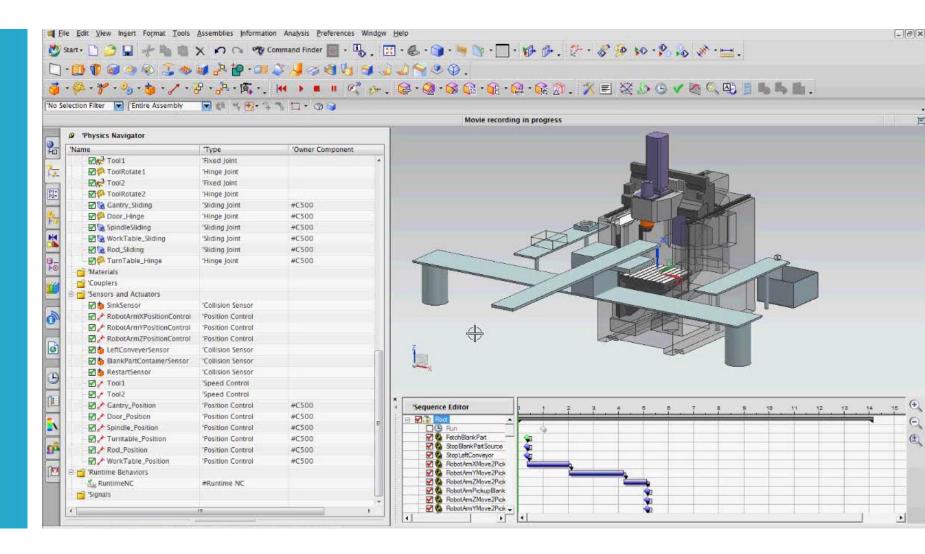
Machine concept



Design and simulate the machine concept

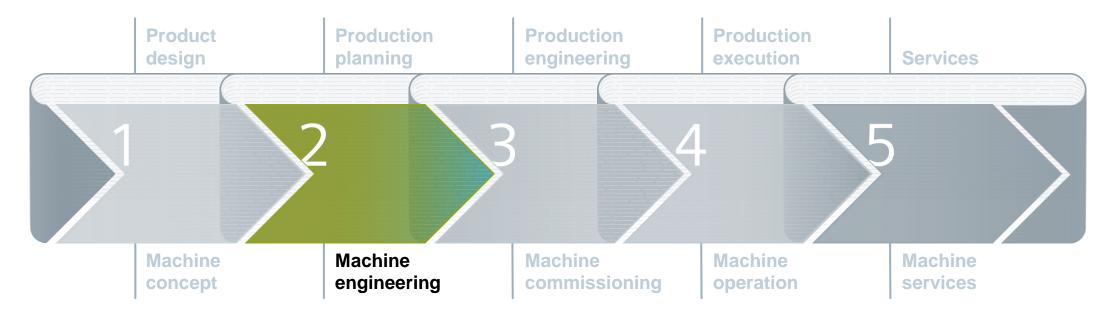
NX Mechatronics Concept Designer

1 2 3 3 4 5





Product manufacturer perspective

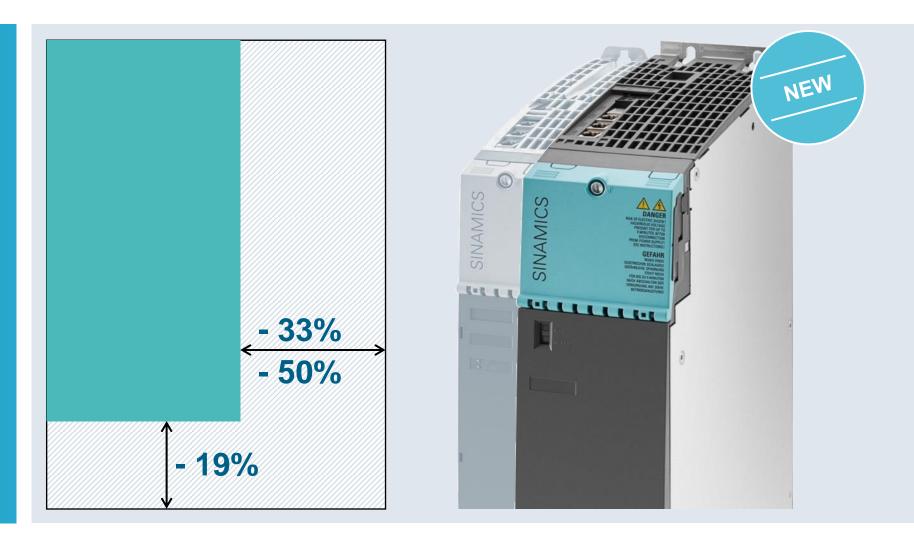


Machine engineering



Reduce the footprint of your machine with higher power density

SINAMICS S120 Booksize motor modules 24A, 45A, 60A



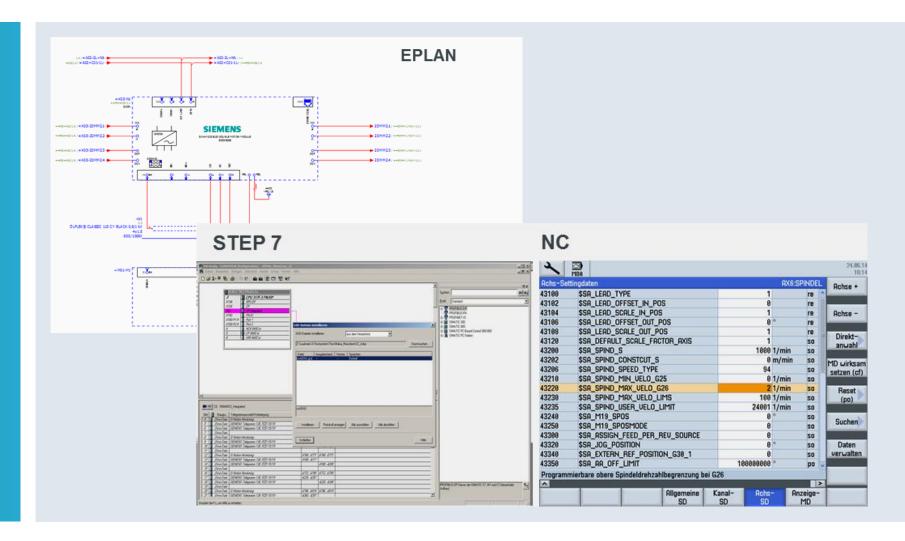
Machine engineering



Machine engineering and PLC code generation for TIA Portal

Sizer and Step7 / TIA Portal

1 2 3 3 4 5



Machine engineering



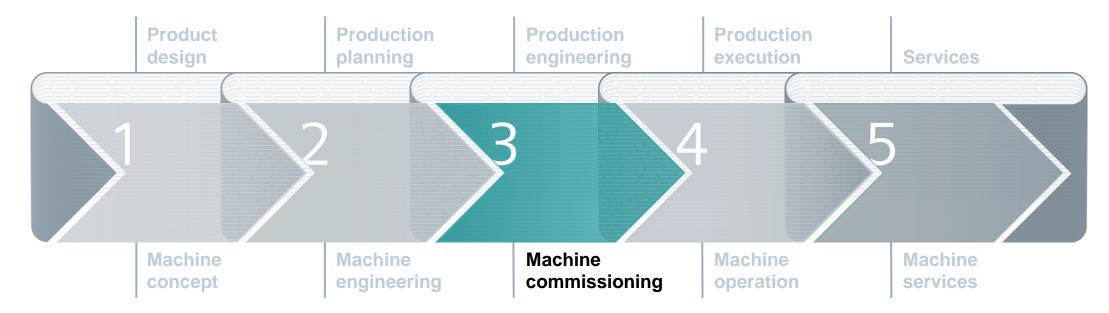
Save up to 50% of your engineering time

SINUMERIK 840D sl TIA Portal Safety Integrated plus





Product manufacturer perspective



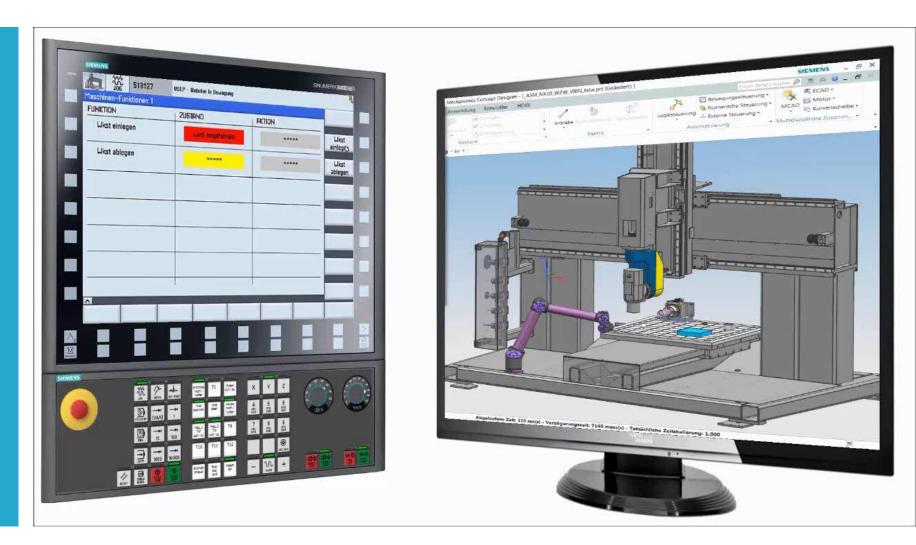
Machine commissioning



Virtual Commissioning

Mechatronics Concept Designer

Hardware in the Loop SIMIT

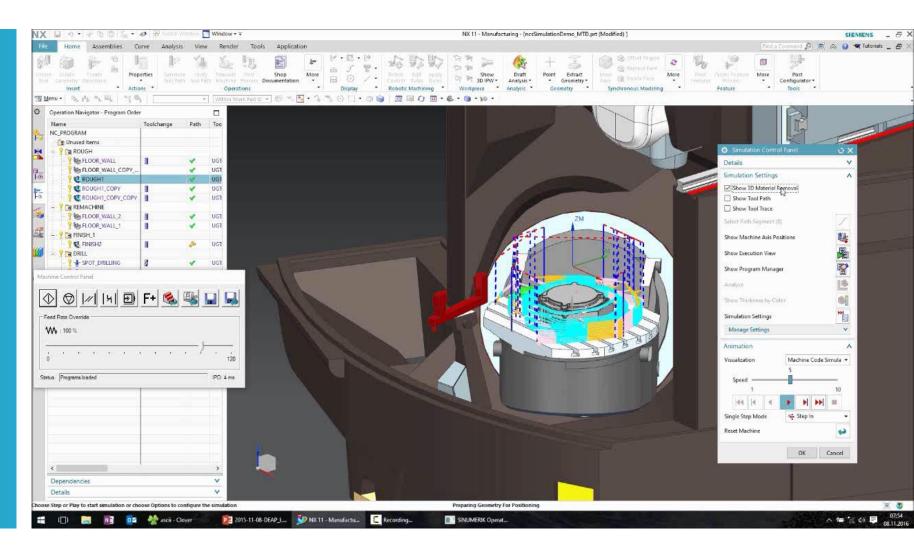


Machine commissioning



Validate the machining process in the virtual world

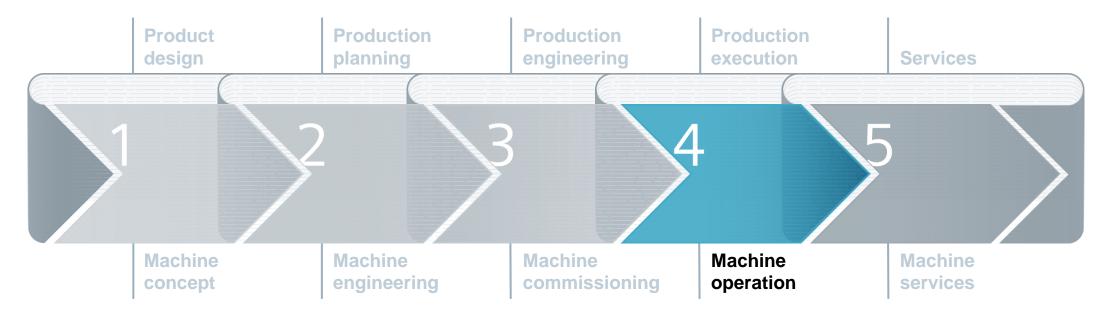
NX Virtual Machine Run MyVNCK



Our holistic approach Specific for end customers and machine builders



Product manufacturer perspective

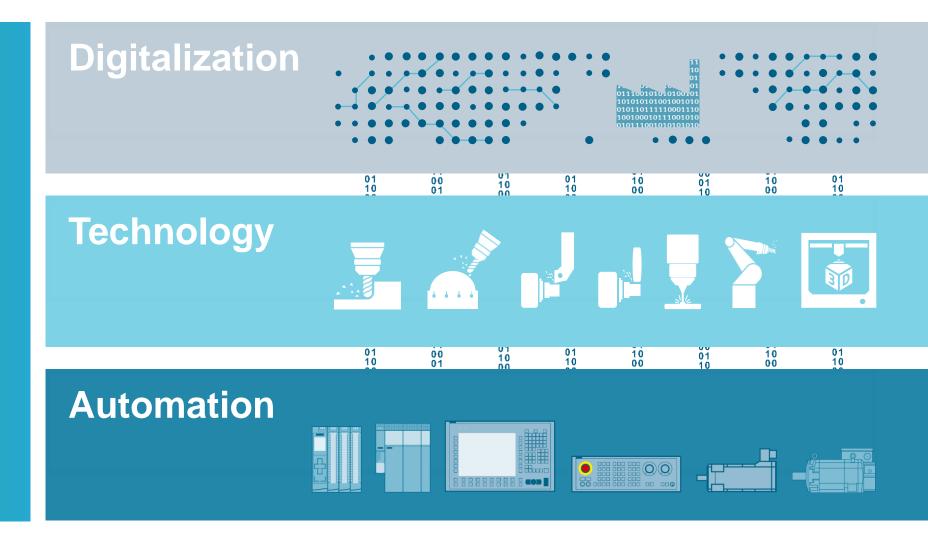


Machine builder perspective



Proven automation solution & technology competence

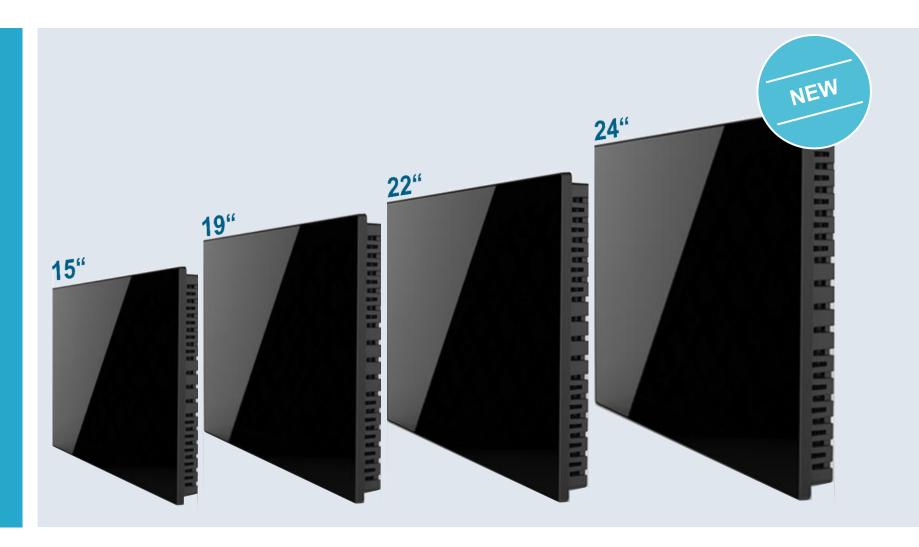
SIMATIC, SINUMERIK, SIMOTION, SIMOTICS, SINAMICS and SIRIUS





The new dimension in the human machine interface

SINUMERIK blackline plus panels





Make your machine unique

Faster to your own machine interface

SINUMERIK
Create MyHMI / WinCC



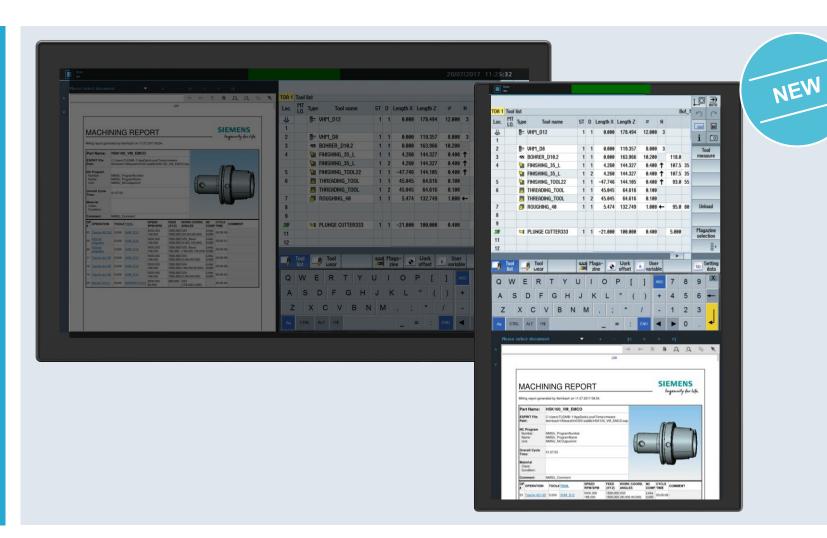




Make your machine unique

Faster to your own machine interface

SINUMERIK
Create MyHMI / WinCC





Make your machine unique

Turn-key solutions

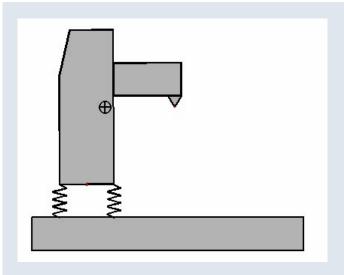
SINUMERIK Customized operator panels



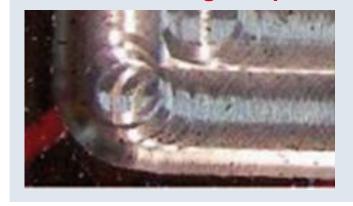


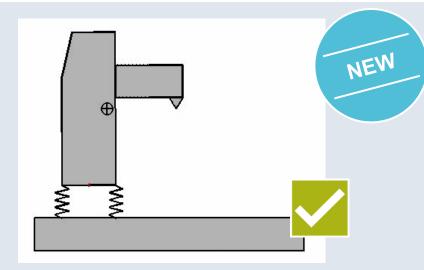
Excellent surface quality in shorter machining time

SINUMERIK Nodding compensation



Without Nodding compensation





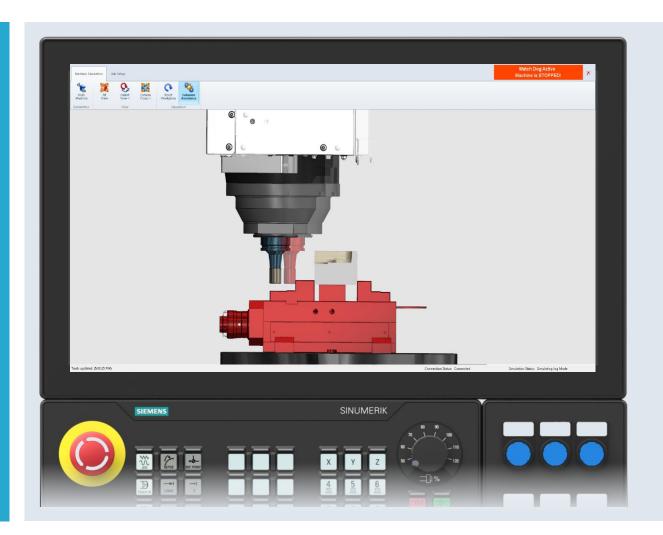
With Nodding compensation





The armor for your machine with incredible usability

SINUMERIK Collision Avoidance ADVANCED



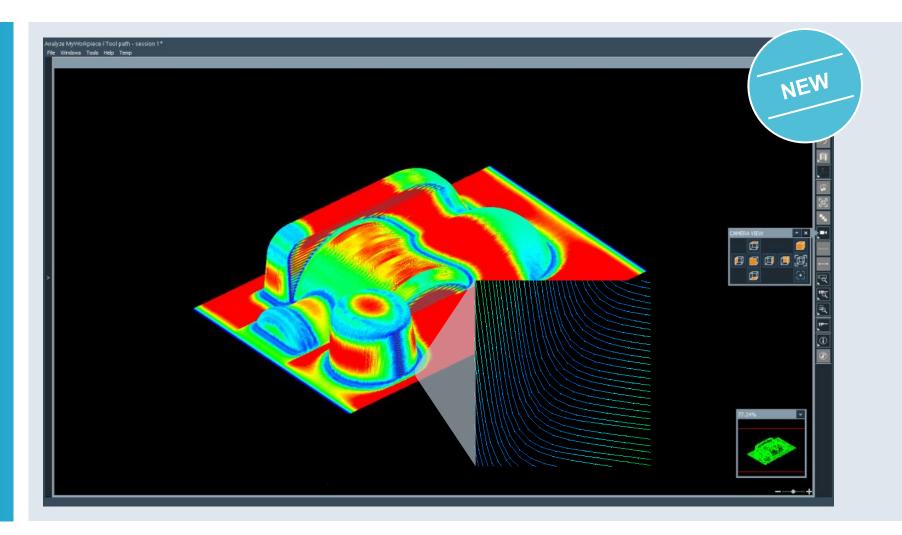




Get the best out of your machine tool:

- Surface quality
- Machining time

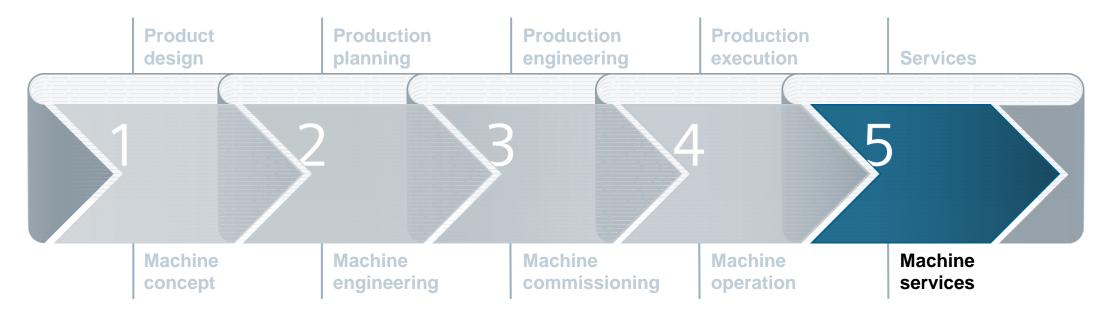
Analyze MyWorkpiece/ Toolpath



Our holistic approach Specific for end customers and machine builders



Product manufacturer perspective



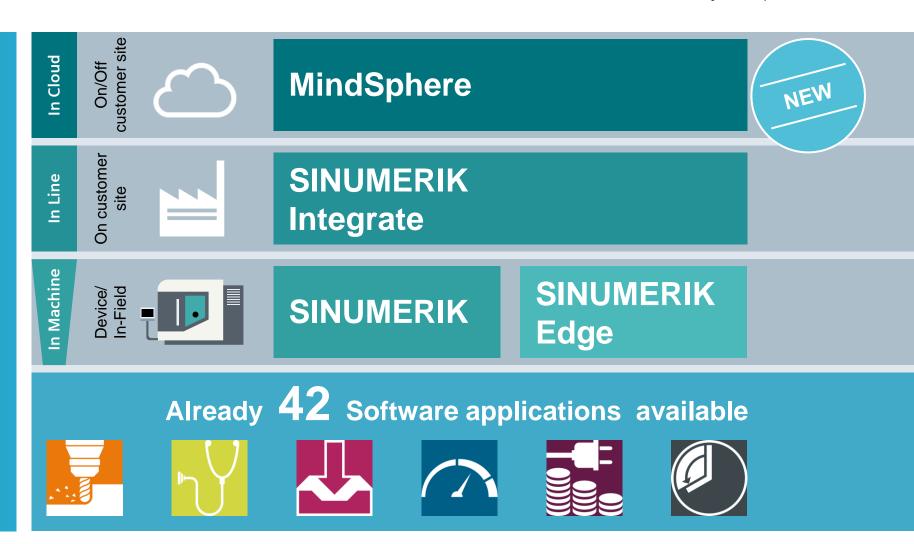
Machine builder perspective

Building an open and attractive ecosystem hosting different kind of applications from different players



Integrated, open and future-oriented digitalization platform

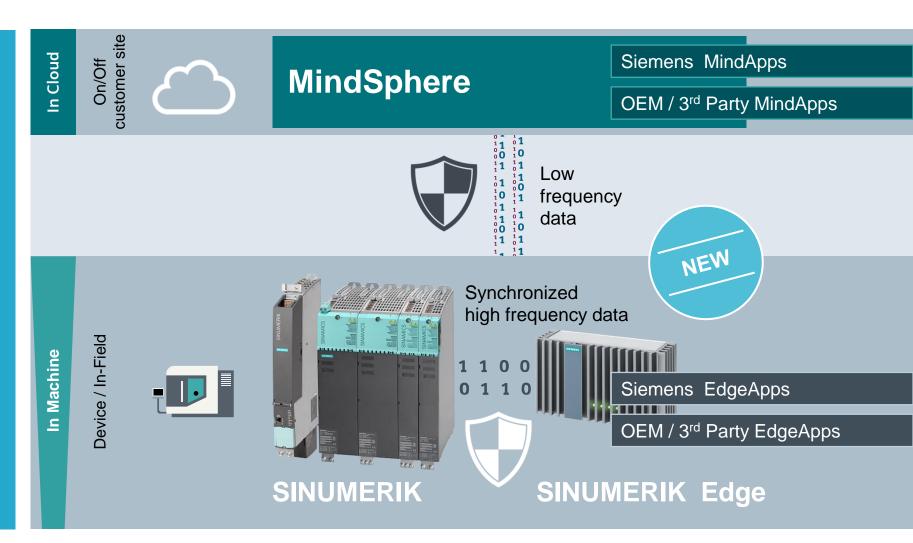
CNC Shopfloor Management Software



SINUMERIK Edge and IoT connectivity



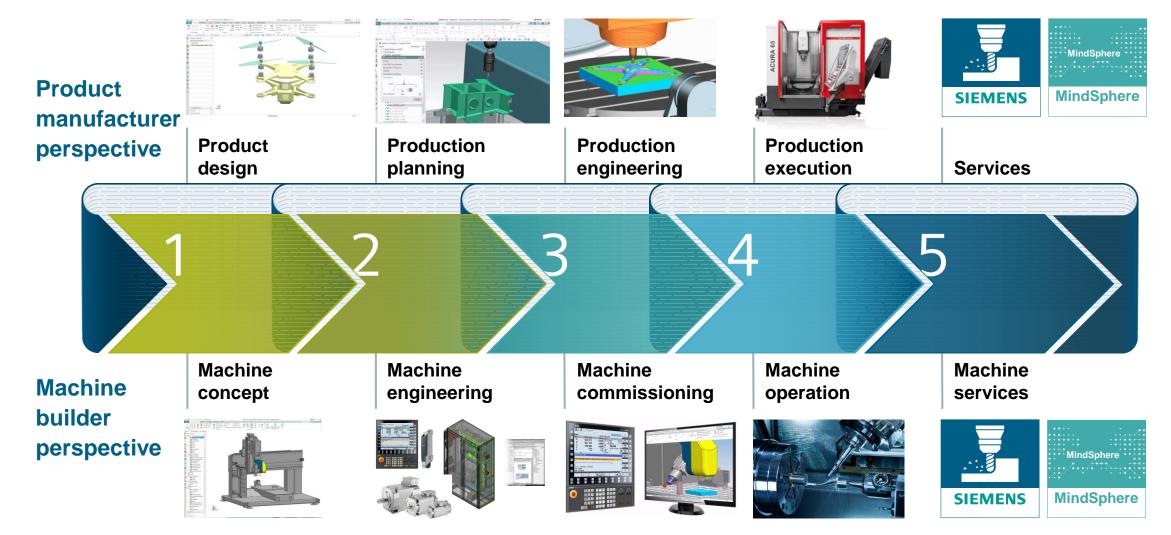
High speed data processing enables new business opportunities



SINUMERIK Edge

All digital, technology and automation highlights for EMO 2017 are lined up along the digitalization value chain







Experience Digitalization in Machine Tool Manufacturing

a new dimension in

machine tool operation machine tool engineering



