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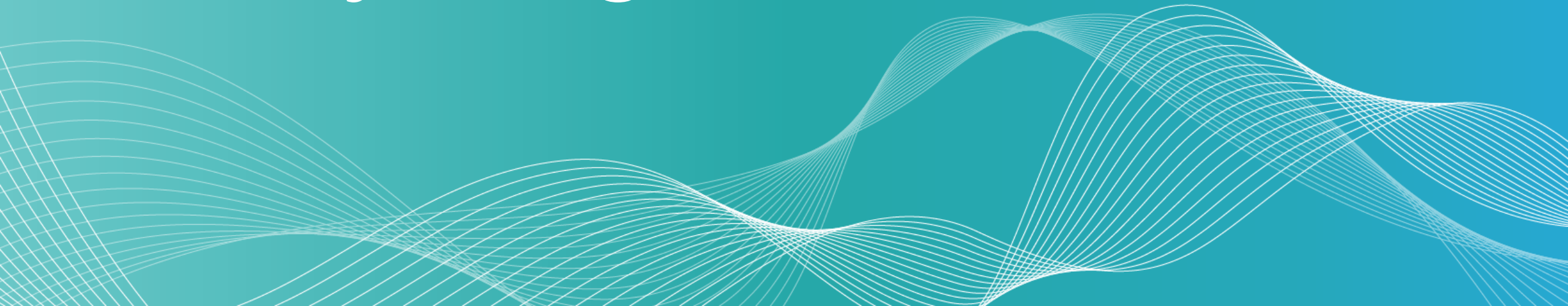
Digitalization in Machine Tool Manufacturing at EMO 2017

Dr. Wolfgang Heuring | CEO Motion Control
July 25, 2017 | Bad Neustadt (Saale)
Press conference prior to the EMO 2017

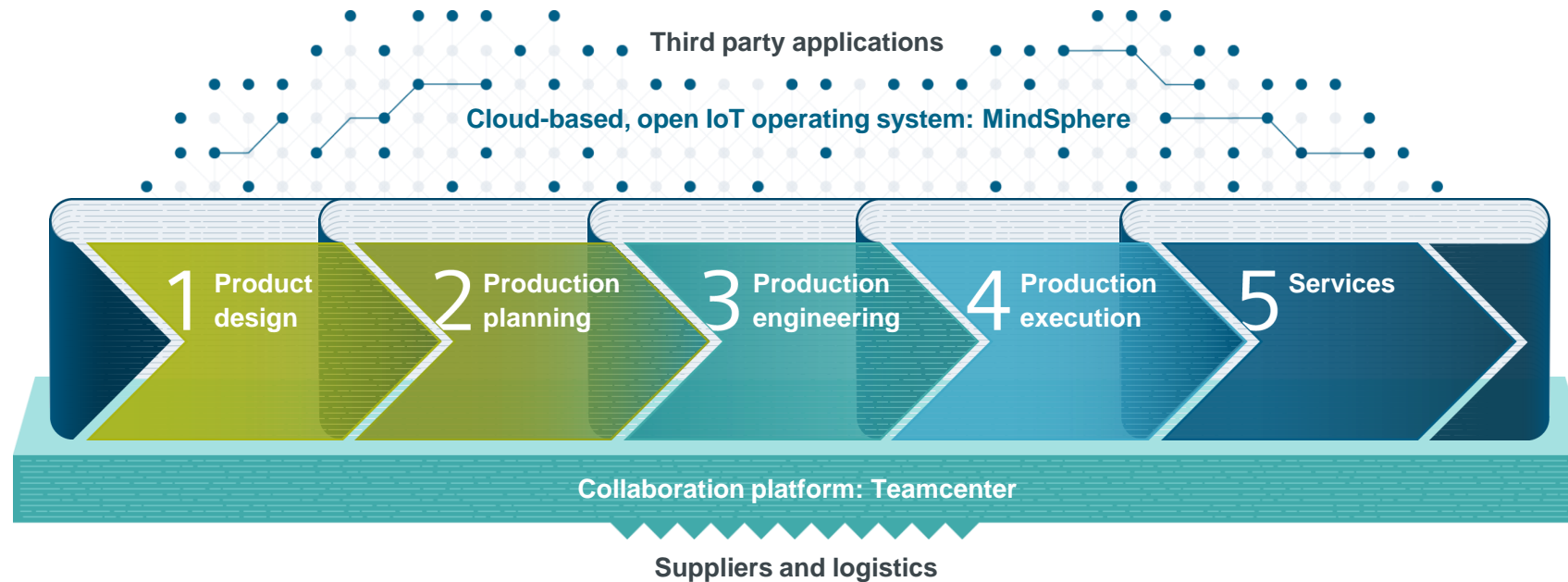
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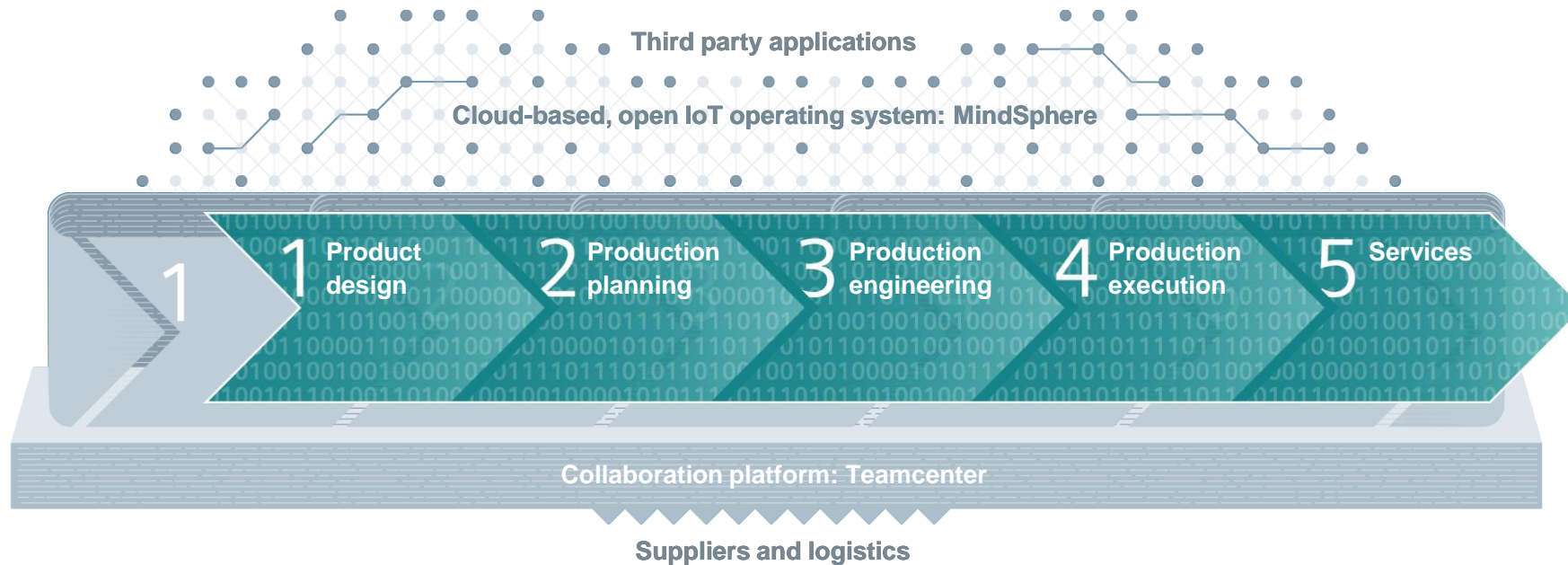
”Digitalization
changes
everything ...



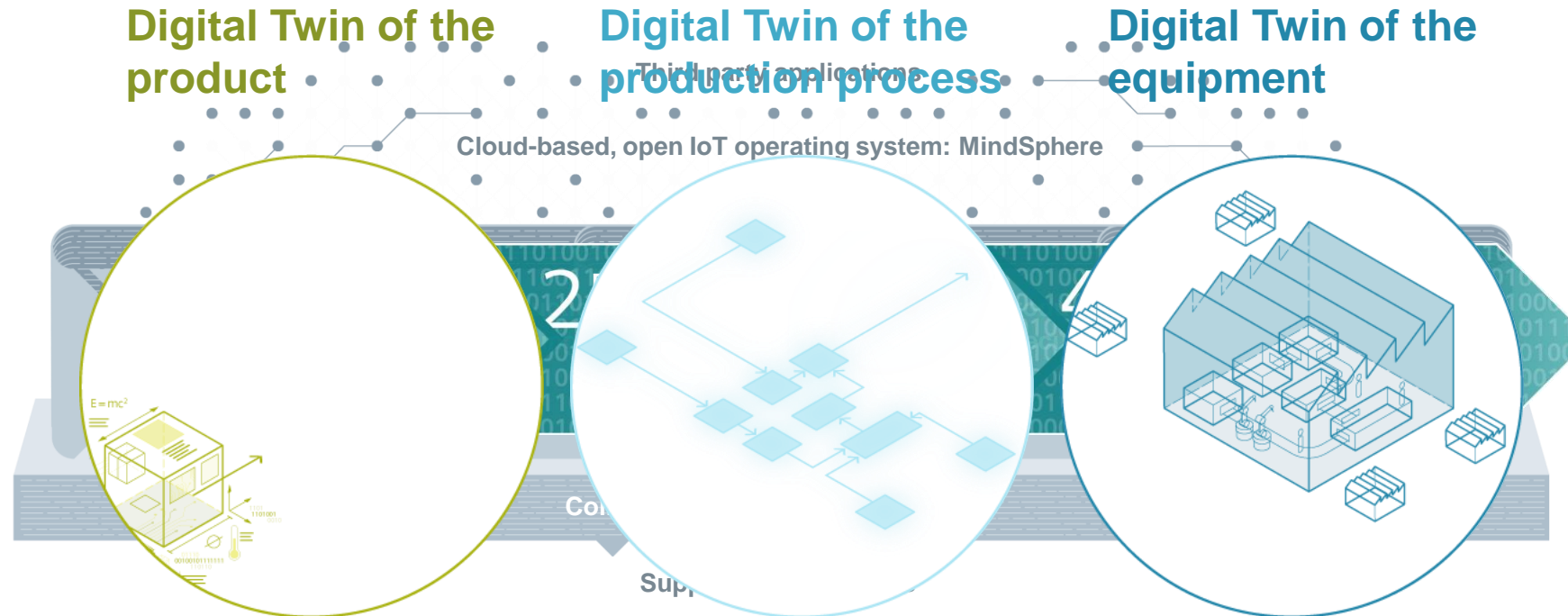
Integrating and digitalizing the entire value chain is key to staying competitive in the future



Integrating and digitalizing the entire value chain is key to staying competitive in the future



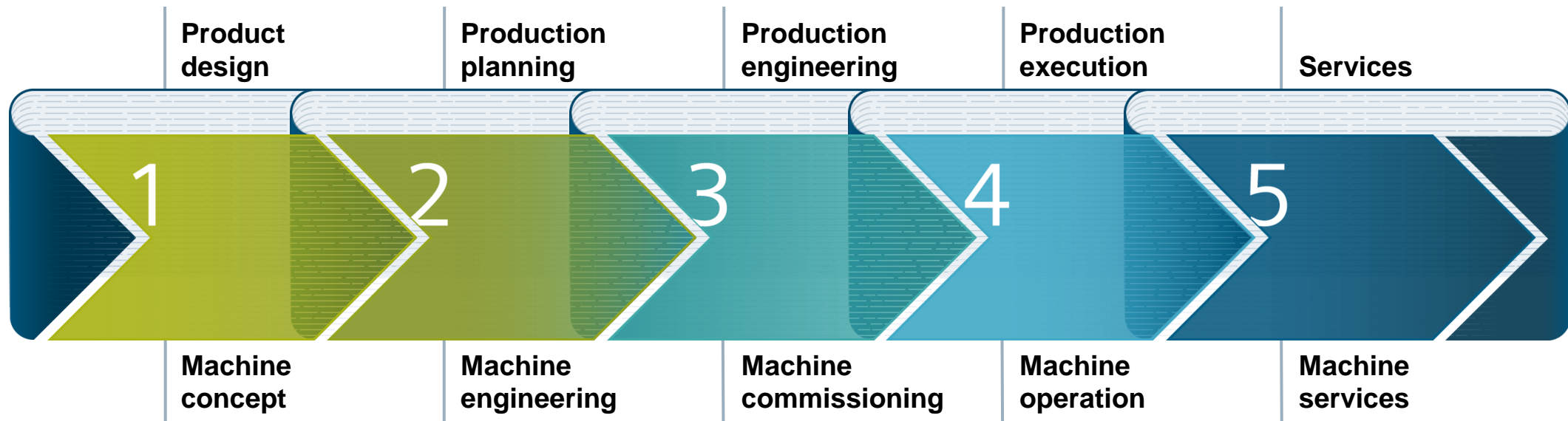
Integrating technical domains into ONE data model



Our holistic approach Specific for end customers and machine builders



Product manufacturer perspective



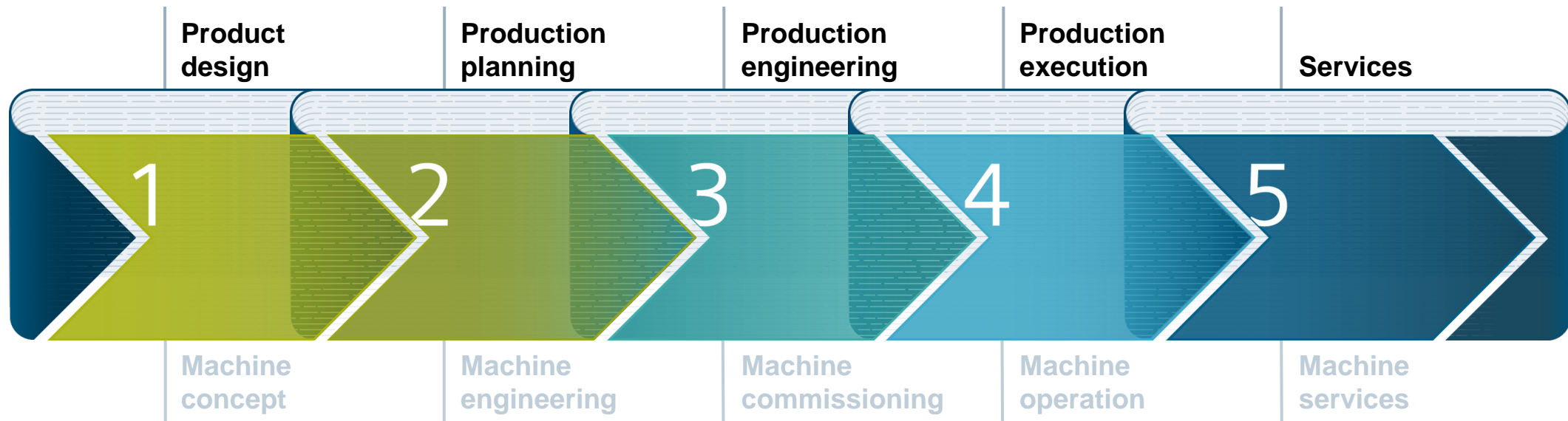
Machine builder perspective

Our holistic approach

Specific for end customers and machine builders



Product manufacturer perspective

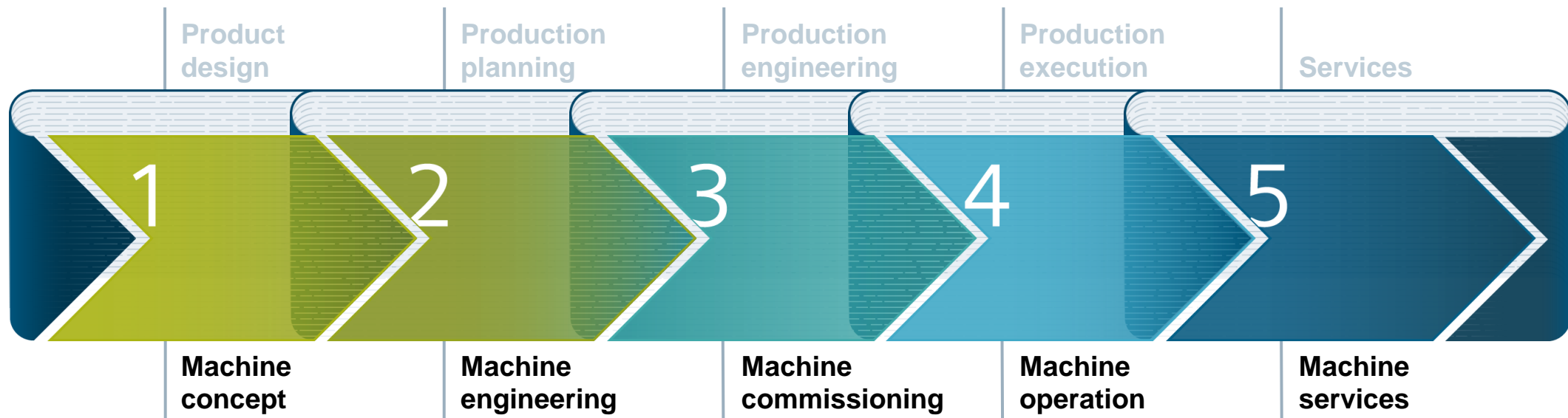


Machine builder perspective

Our holistic approach Specific for end customers and machine builders



Product manufacturer perspective

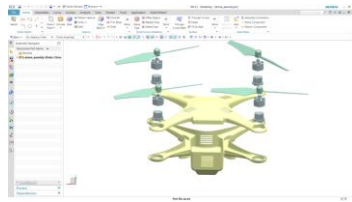


Machine builder perspective

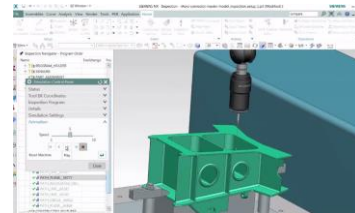
All digital, technology and automation highlights for EMO 2017 are lined up along the digitalization value chain

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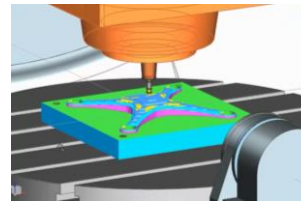
**Product
manufacturer
perspective**



**Product
design**



**Production
planning**



**Production
engineering**



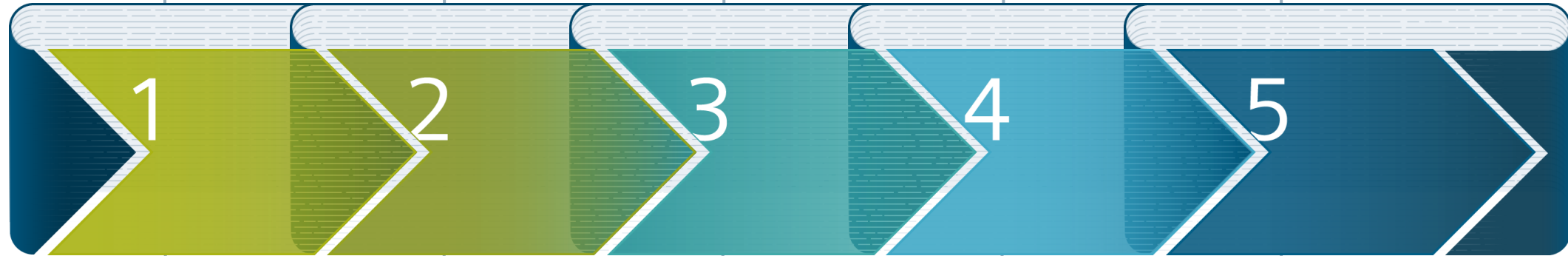
**Production
execution**



Services

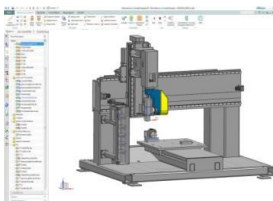


MindSphere



**Machine
builder
perspective**

**Machine
concept**



**Machine
engineering**



**Machine
commissioning**



**Machine
operation**

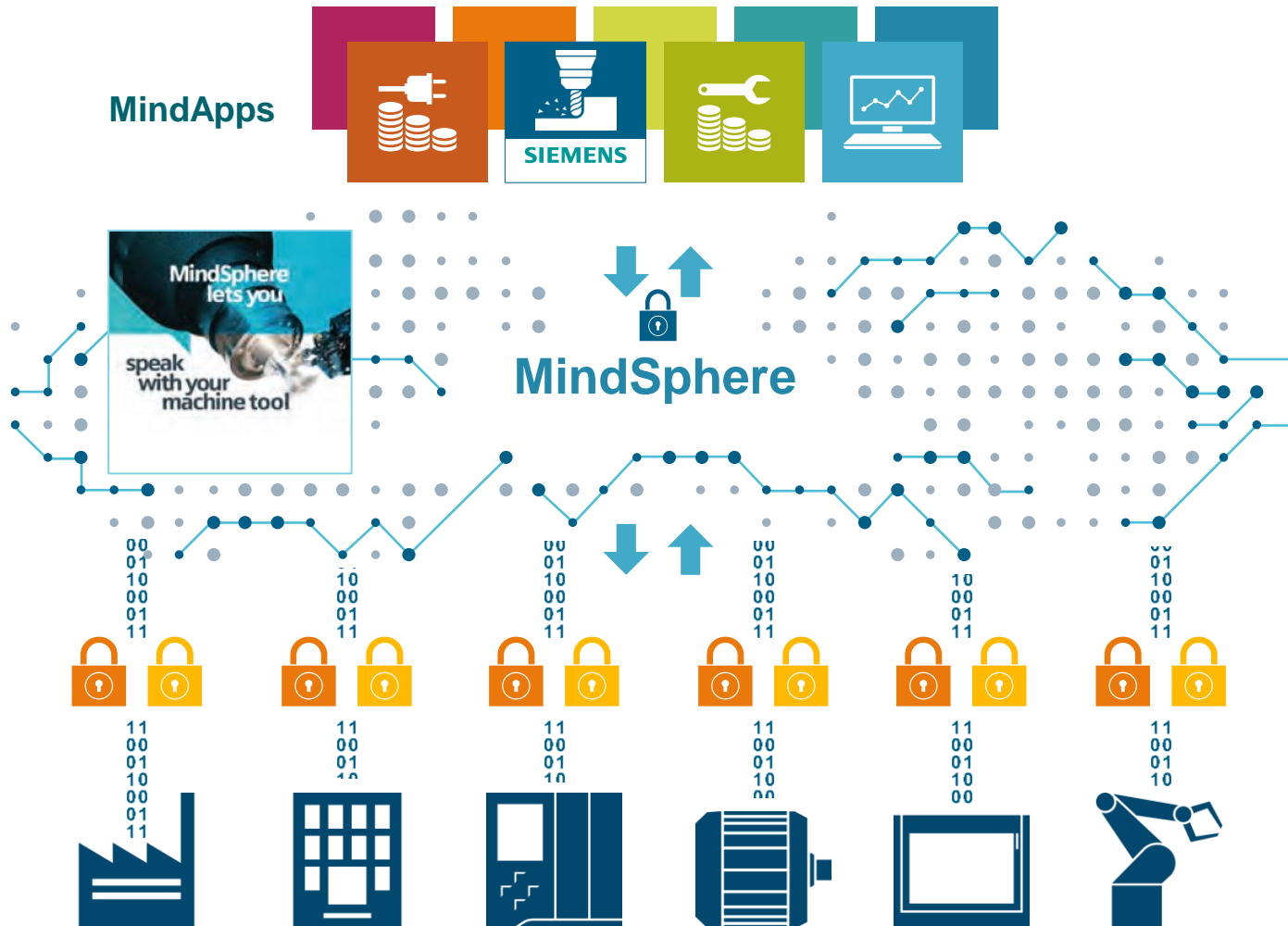


**Machine
services**



MindSphere

Example Highlight Digitalization – Manage MyMachines for MindSphere



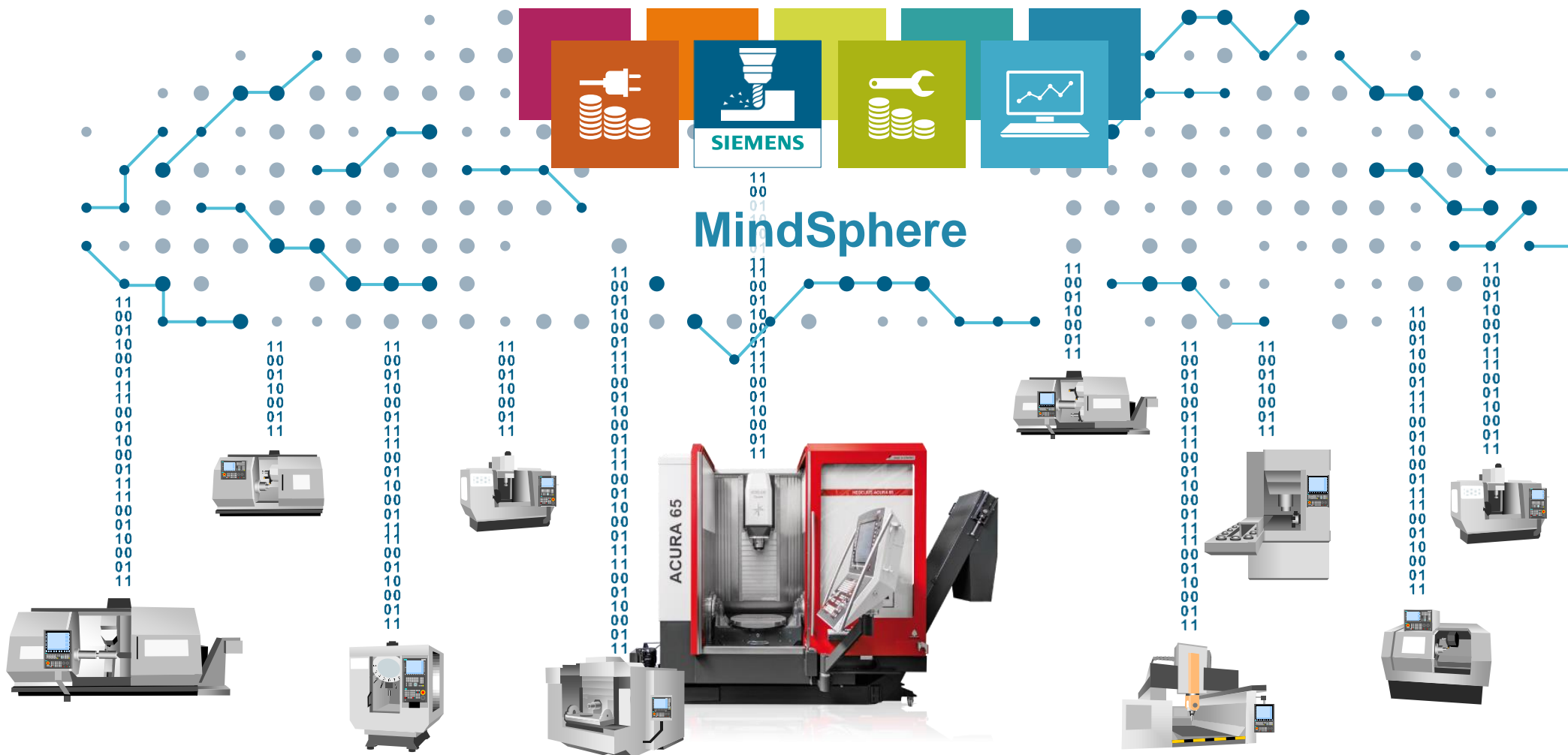
Manage MyMachines



- Transparency based on recording the machine status, operating mode and program status of the machine
- Representation of critical machine data and machine history
- Transparent representation of machine park, also across different locations
- Quick and easy configuration of machine link-up
- Connecting SINUMERIK 840D sl to MindSphere without additional devices

Around 200 machines will be connected to MindSphere at EMO ...

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... but you can see how digitalization works already here in Bad Neustadt.
We show the benefits of Digitalization in a real production environment!

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Arena of Digitalization



Proof Points on the Shopfloor



Significant increase in plant productivity achieved through digitalization



Capacity utilization increased by **20%** in mechanical pre-production

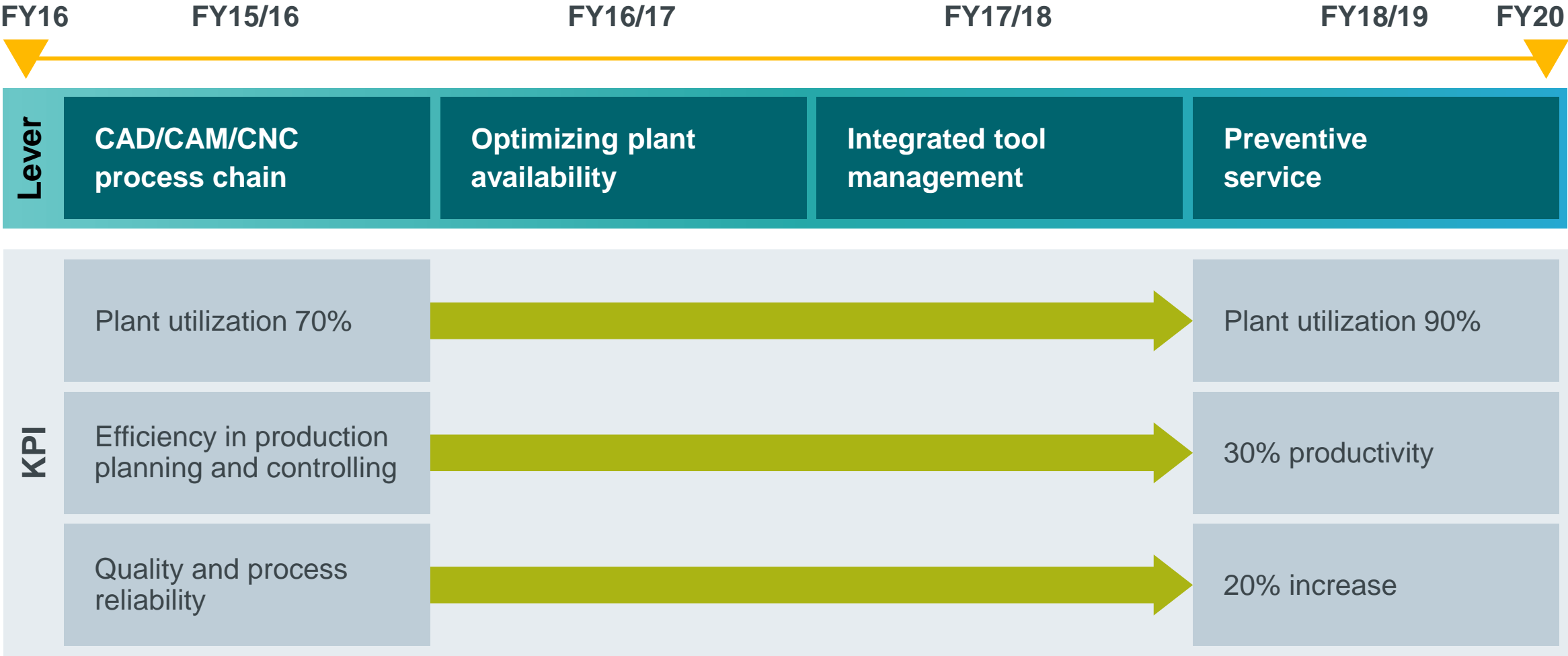
Setup time for new machine tools reduced by **60%**

Cycle time on several parts reduced by up to **20%**

Clear productivity increase through robots for flexible automation



Digitalization in Bad Neustadt focuses on different levers to increase plant productivity and has a clear roadmap



We are driving the

Digital Enterprise

together with our customers



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EMO
Hannover
18-23.9.2017

Thank you.

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