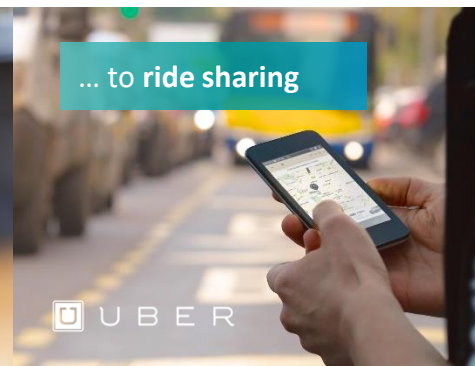
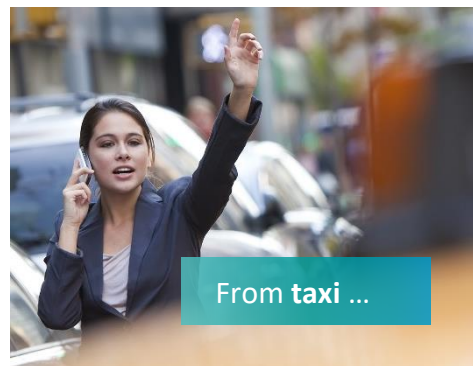
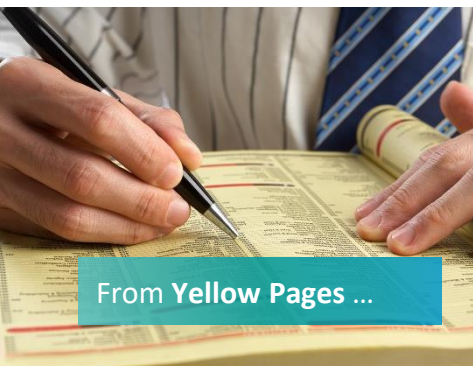
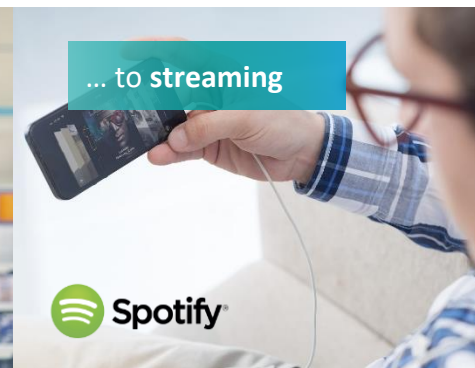
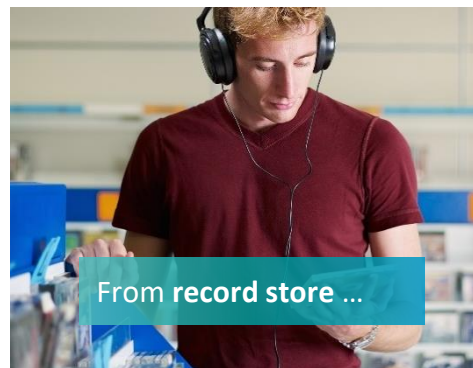


SIEMENS

Digitalization for small and  
medium size companies

Andrea Gozzi

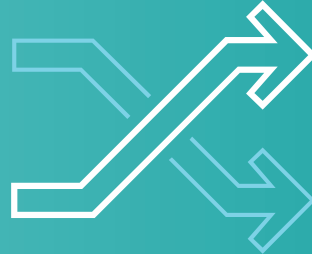




Speed



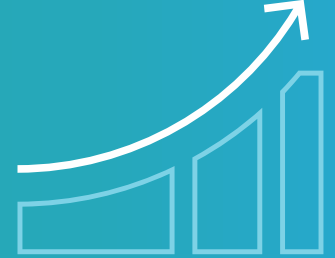
Flexibility



Quality

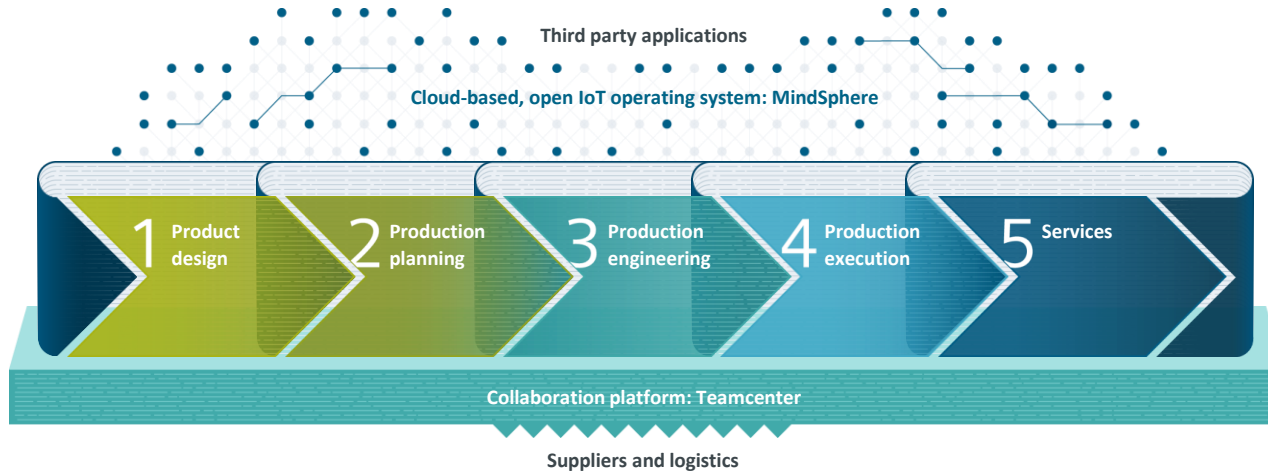


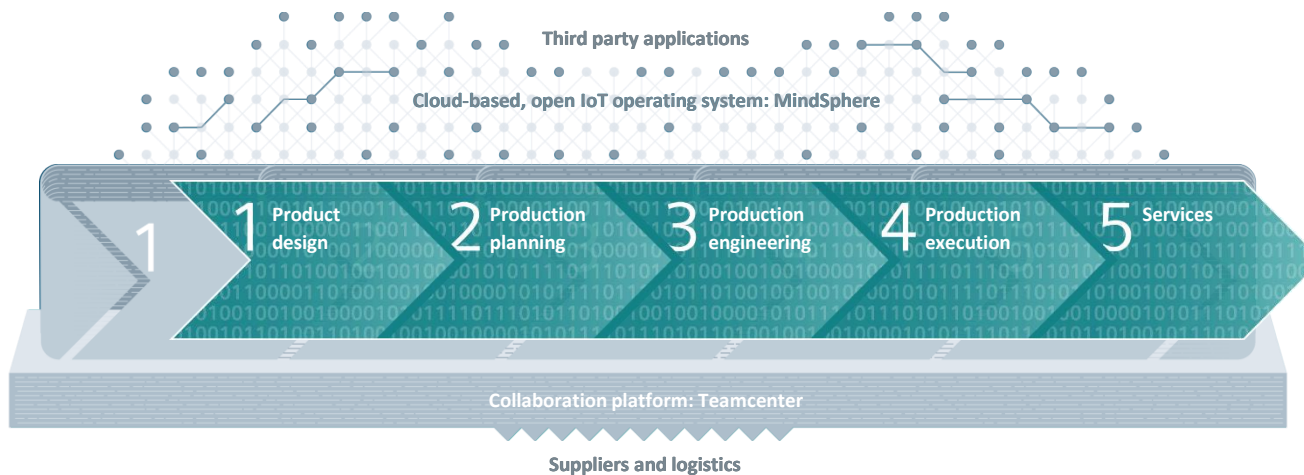
Efficiency



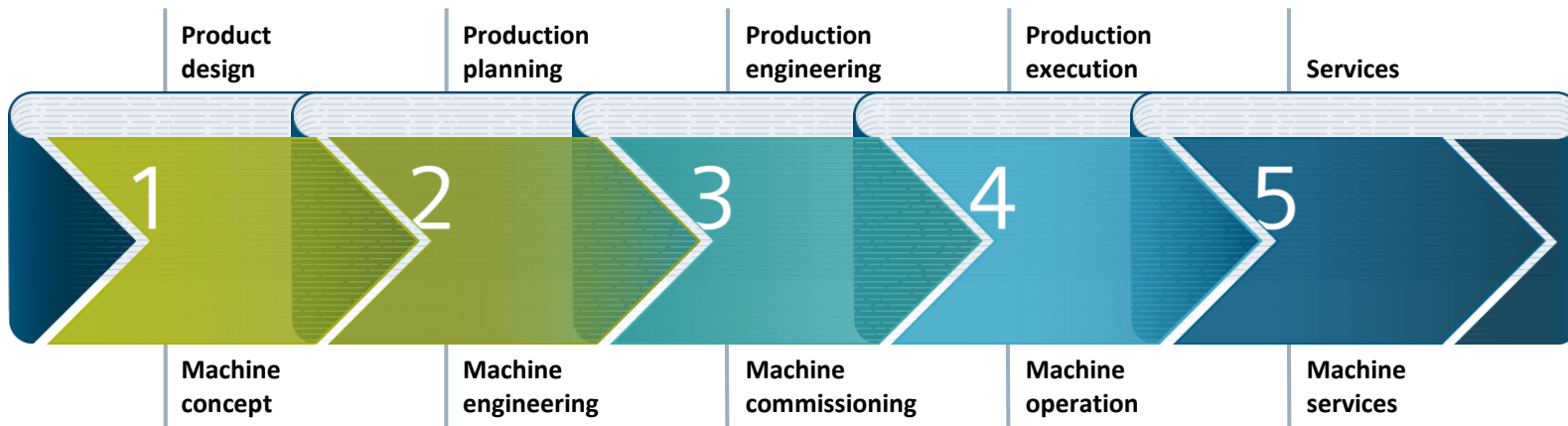
Security





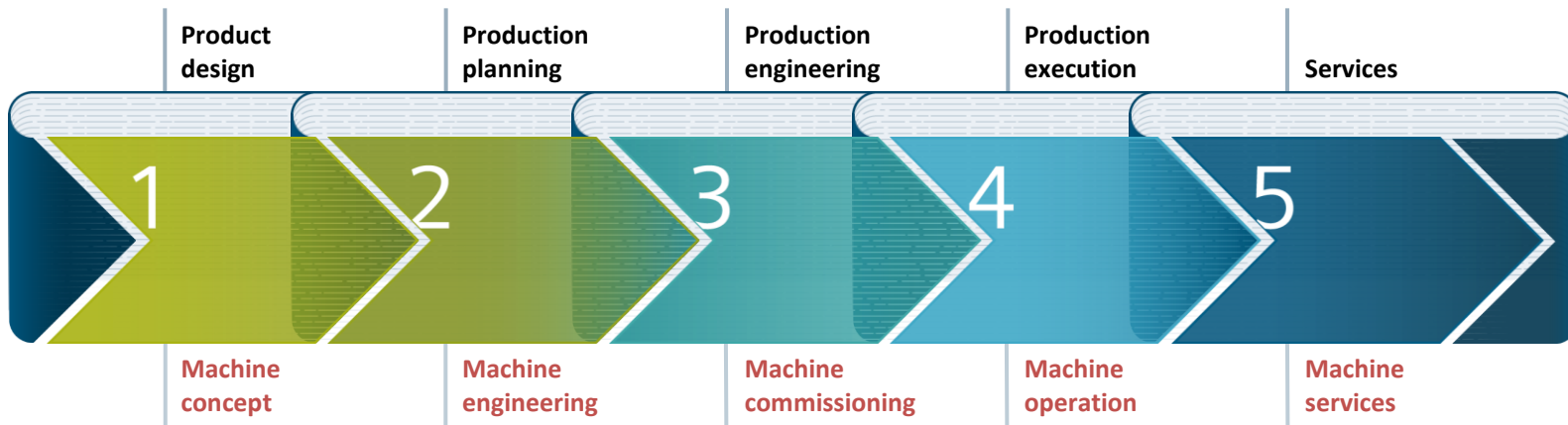


Product manufacturer perspective



Machine builder perspective

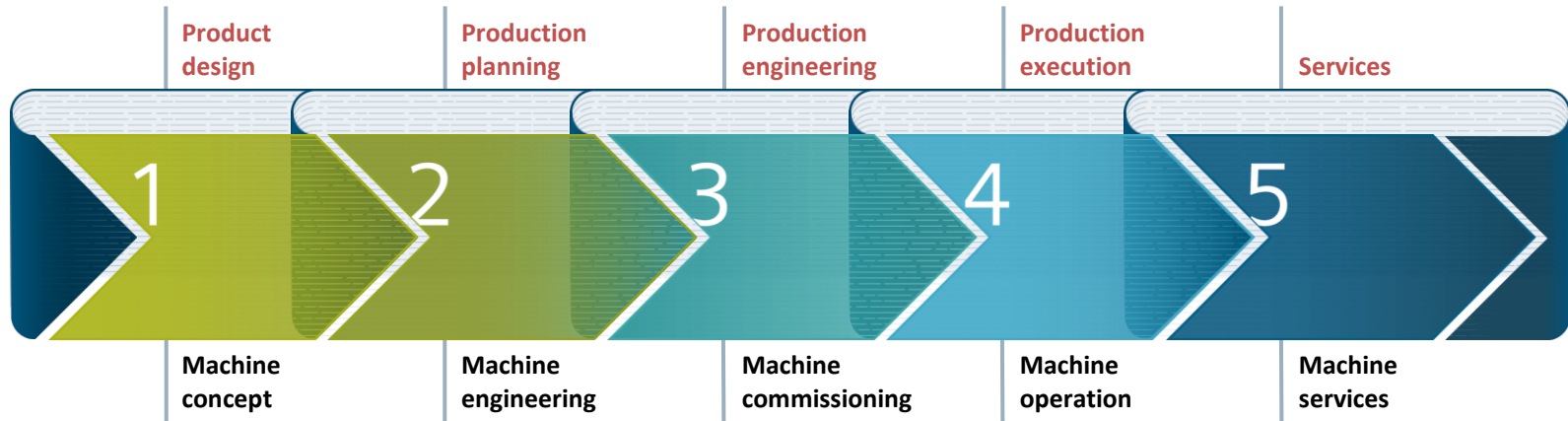
Product manufacturer perspective



Machine builder perspective



**Product manufacturer perspective**



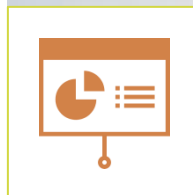
**Machine builder perspective**



Speed-up programming

Optimize tool paths

# SinuTrain for SINUMERIK Operate

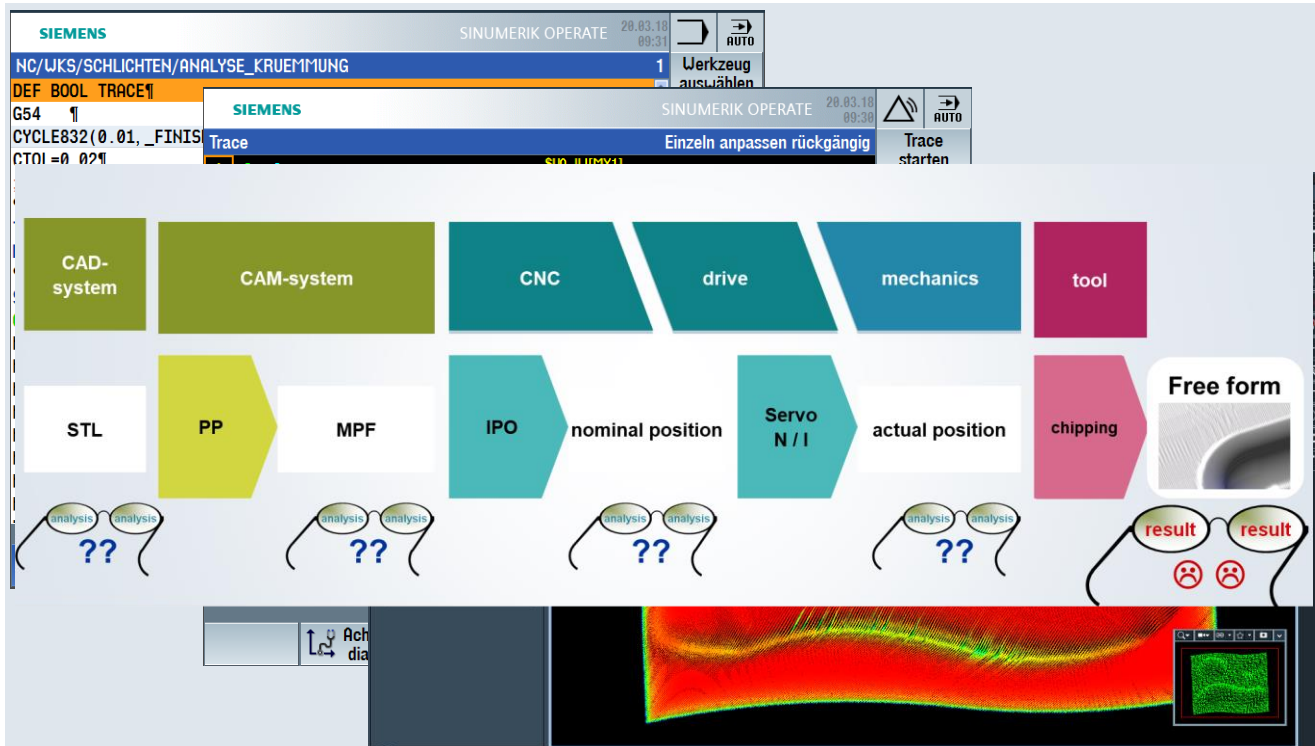


Increase your  
productivity and usability!

Optimize quality

Detect CAM  
issues

Analyze  
MyWorkpiece



The screenshot shows the Siemens SINUMERIK OPERATE interface. At the top, there are menu items like 'Werkzeug auswählen' and 'Einzeln anpassen rückgängig'. Below this is a process flow diagram with the following components:

- Top row:** CAD-system, CAM-system, CNC, drive, mechanics, tool.
- Bottom row:** STL, PP, MPF, IPO, nominal position, Servo N / I, actual position, chipping, Free form.

Below the flow diagram, there are five pairs of glasses icons representing analysis points. The first four pairs have 'analysis analysis' written on the lenses and '??' below them. The fifth pair has 'result result' on the lenses and two sad face icons below them. At the bottom right, there is a large image of a surface analysis showing a color-coded topography map with a red and yellow gradient, and a smaller inset image showing a green surface texture.

Make your production more efficient and flexible

Manage MyMachines



Fleet Manager > sag-fmtde / TAC\_SiemensAG / TAC / EMCO\_HYPERTURN\_65

Assets 6 / 136

Filter & sort + Search

<b>Demorack_828D_TAC</b>	28 ▲
Customer: TAC_SiemensAG	27 ●
Germany, Frauenaucher Straße 80, 91058 Erlangen	
<b>DMU60eVo</b>	28 ▲
Customer: TAC_SiemensAG	27 ●
Germany, Frauenaucherstr. 80, 91056 Erlangen	
<b>EMCO_HYPERTURN_65</b>	89 ▲
Customer: TAC_SiemensAG	1 ◆
Germany, Frauenaucherstr 80, 91056 Erlangen	195 ●
<b>HYUNDAI_WIA_I_CUT_380T</b>	1 ▲
Customer: TAC_SiemensAG	4 ◆
Germany, Frauenaucherstr. 80, 91056 Erlangen	3 ●

**FMT Dashboard**

EMCO\_HYPERTURN\_65

Online since 18.07.2017 05:15 last 8 hours

**Machine status**

unknown status

Production

Technical distur...

organizational d...

no disturbance

23:00 18-Jul 01:00 02:00 03:00 04:00 05:00 06:00

**Connection status:**

Online

**Feed Override:**

100 %

**Spindle Override:**

100 %

**NC program status:**

cancelled

**Operation mode:**

NC program status

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Manage  
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Remote



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Assets 6 / 136

Filter & sort + Search

<b>Demorack_828D_TAC</b>	
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Customer: TAC_SiemensAG	4 ◆
Germany, Frauenaucherstr. 80, 91056 Erlangen	3 ●

FMT Dashboard Explore

\* [s] axis\_temp

UTC 06:46 07/17/17 07/23/17 Week

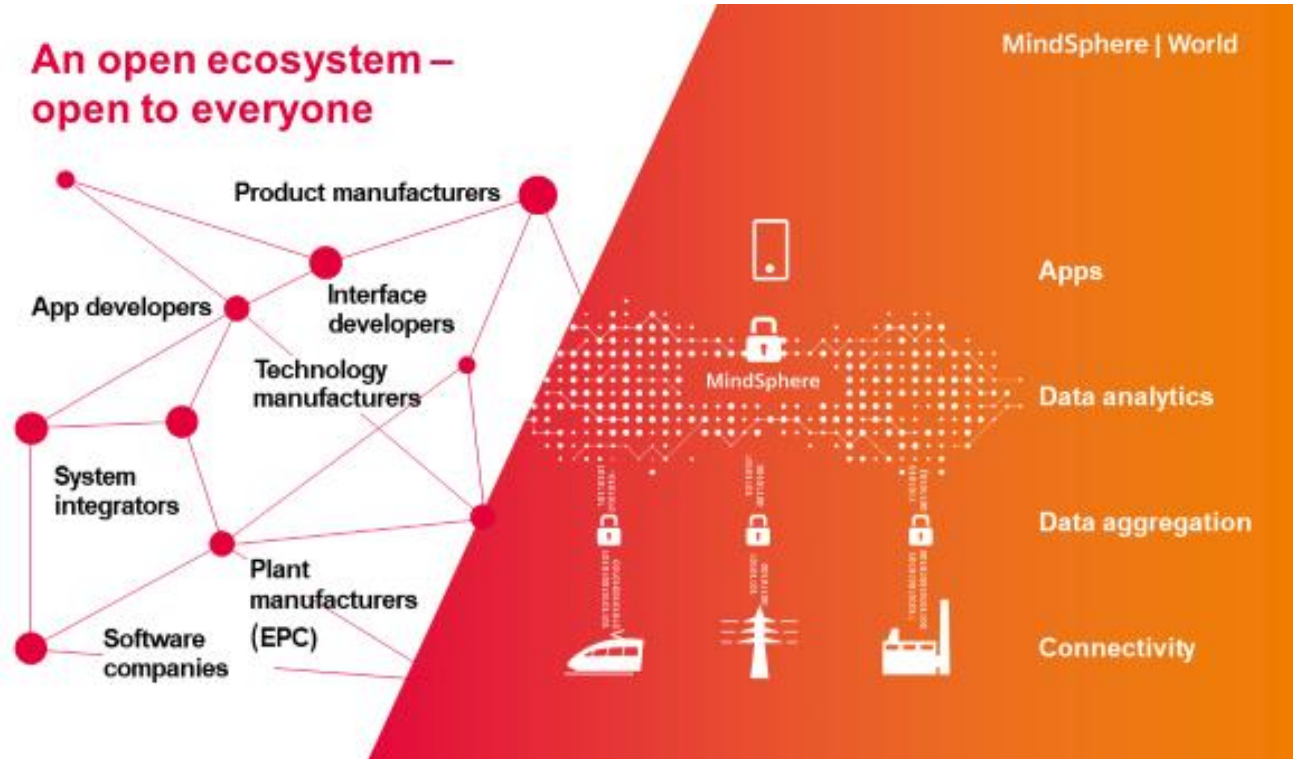
31 17 Jul 2017 17:59:38.206

Standard Scale [°C]

axis\_Z: 27.099997 °C  
axis\_C1: 26.4995 °C  
axis\_Y: 26.299997 °C

axis\_B axis\_C1 axis\_C13 axis\_C2 axis\_X axis\_Y axis\_Z

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**PAD 13**  
**D97**



**EISENMANN**

**BALLUFF**

**TRUMPF**

**KUKA**

**HELLER**

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Edge**

Already **42** Software applications available







**Digitalization in  
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Pad. 13 Stand C50 - D63