SAP for Industrial Machinery & Components

Industrie 4.0 für den Anlagen & Maschinenbau

Heiko Flohr, Global Head IBU Industrial Machinery & Components, SAP AG



Industrial Machinery & Components

Our Industry Expertise Helps Companies Run Better

6.400+ SAP Customers in the Industrial Machinery & Components industry

in every of the five industry segments





AUTOMATION & CONTROL SOLUTIONS

- Motion and Fluid Control
- Electrical Equipment, Appliance, and Components
- Measuring & Controlling Devices



CONSTRUCTION & MINING EQUIPMENT

- Construction Machinery
- Mining Machinery
- Heavy Equipment Dealers & Rentals



MACHINERY & EQUIPMENT

- Metalworking Machinery & Tools
- Special Industry Machinery
- Elevators, Escalators, and Material Handling Equipment
- Heating, Ventilation, Air Conditioning, and Refrigeration Equipment



ENERGY & POWER EQUIPMENT

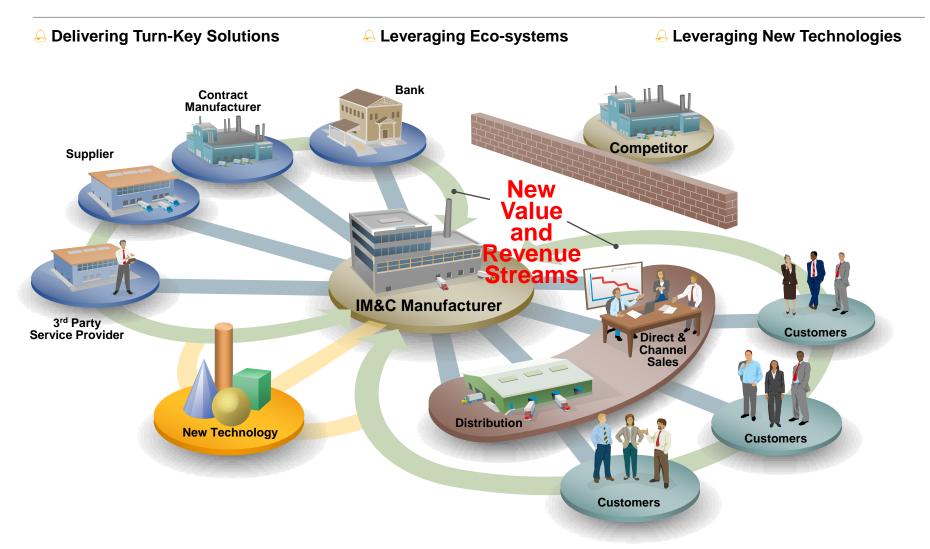
- Oil & Gas Machinery
- Turbines and Generators
- Pumps and Pumping Equipment
- Air & Gas
- Compressors
- Transformers



RAIL EQUIPMENT & SHIPBUILDING

- Railroad Equipment
- Ship Building and Repairing

The Next Generation Business Model Solution Provider Network



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SAP for Industrial Machinery & Components 5 Elements of Industry 4.0 / Integrated Industry





End-to-End Processes











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Machine Life Cycle

Vertical Integration

+ 20 years



SAP for Industrial Machinery & Components 5 Elements of Industry 4.0 / Integrated Industry: The future will come automatically-





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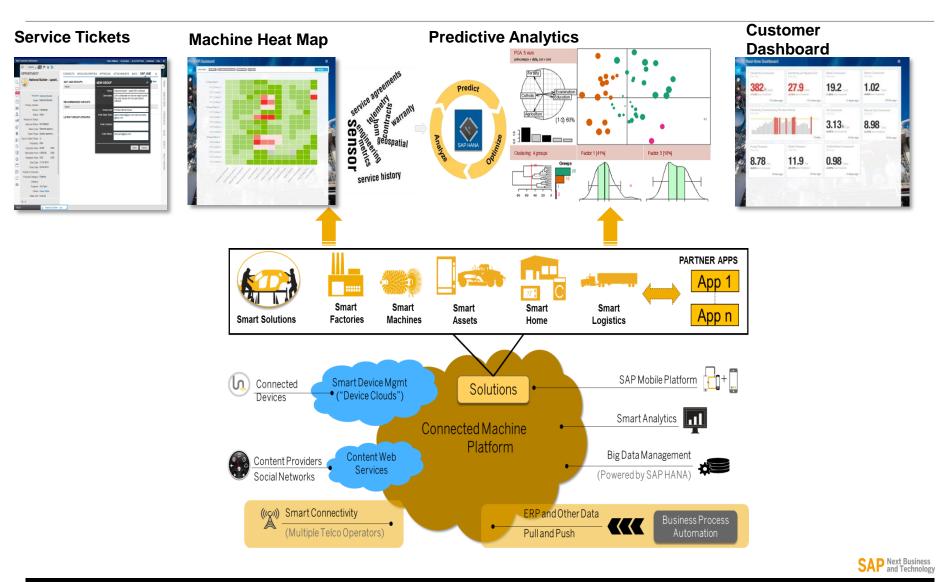
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+ 20 years

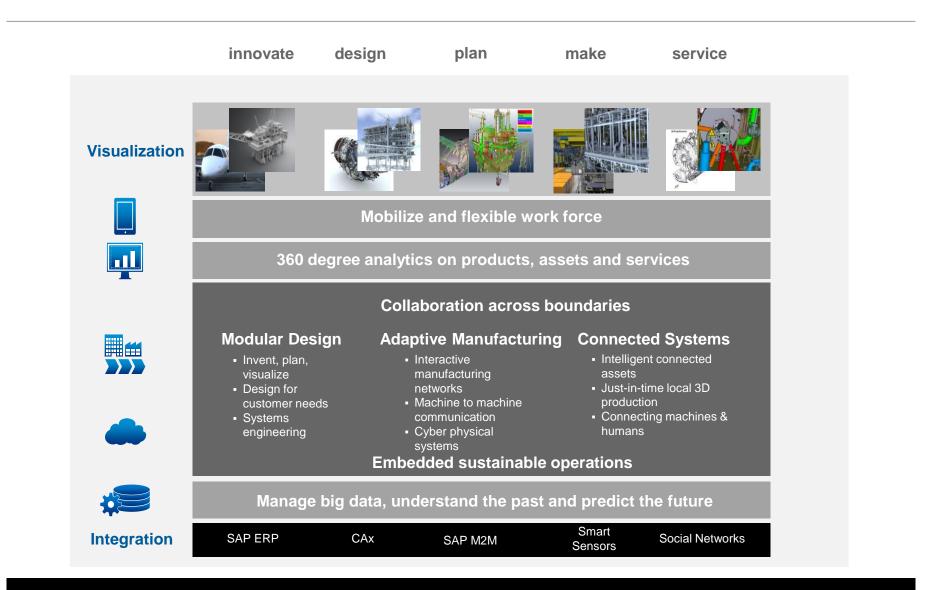
- Increasing Digitalization Virtual World and Real World coming together - "White Collar Robots"
- > What can be automated, will be automated
- Human Machine Interface need to be developed new
- Collaborative Consumption; Sharing Economy; Asset Light lifestyle
- New Industrial Downstream Service e.g. "Machine Benchmarking"
- Pay on Production Models; Scan and Copy (3D); Usage Based Billing
- > Asset Life Cycle Business Models with continuously changing partners
- Networked and decentralized organized services (Fractal)
- > Cyber Physical Networks; Usages of Vision and Noise
- Heterogynous system structure need to need harmonized
- Plug & Produce Dynamic Processes
- > Automation of business processes
- Creation and processing of data on all levels of details
- > Assembly & Sub Assembly are self-controlled and part of the autom.
- > People Safety needs to be reached on the highest level possible
- > Alignment of the different life cycle of Software, Mechanics, Automatisation and the respective area for usage in production, energy, process areas need to be aligned over a longer period of time.
- Incentive & Registration Models to stay connected

The Machinery Cloud Emerges: Emerging Applications Some Examples



Industry 4.0: Idea to Performance

Integrated Business Solutions to Accelerate Idea to Product and Service Performance





Thank you

Heiko Flohr Global Lead Industrial Machinery & Components

SAP AG

Heiko.Flohr@sap.com





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