



Are you ready for your Smart Factory?

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IT - Digital Industrial Solutions

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Agenda

- Challenges
- Smart Factory – the solution for everything?
- Current trends and opportunities
- Recipe for success – “start smart”
- Your Smart Factory with ARBURG

Challenges



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**CYBER-PHYSICAL SYSTEM THAT
CONNECTS MACHINES AND EMPLOYEES,
USES DATA INTELLIGENTLY AND
AUTOMATES PROCESSES.**

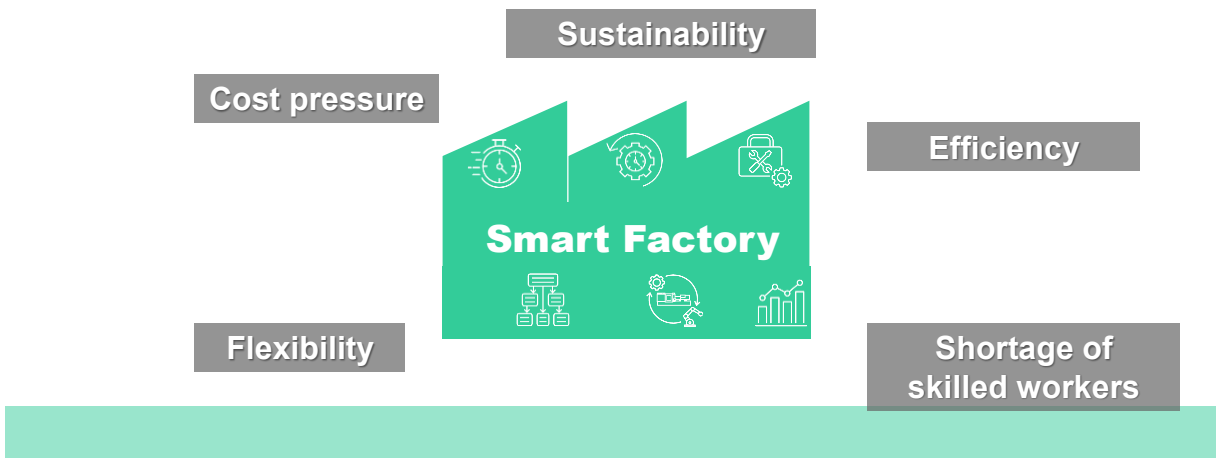
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A factory that thinks ahead.

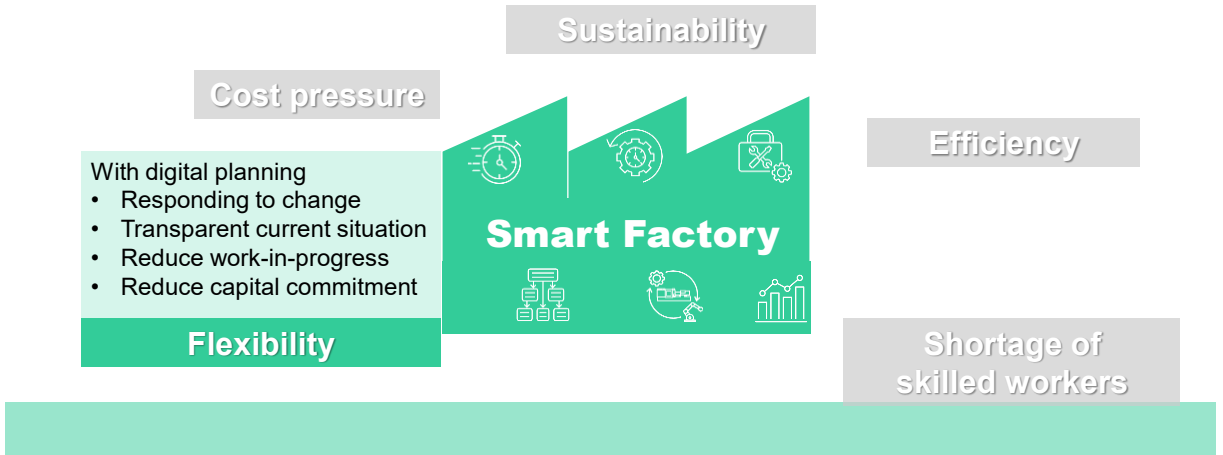
Smart Factory – the solution for everything?



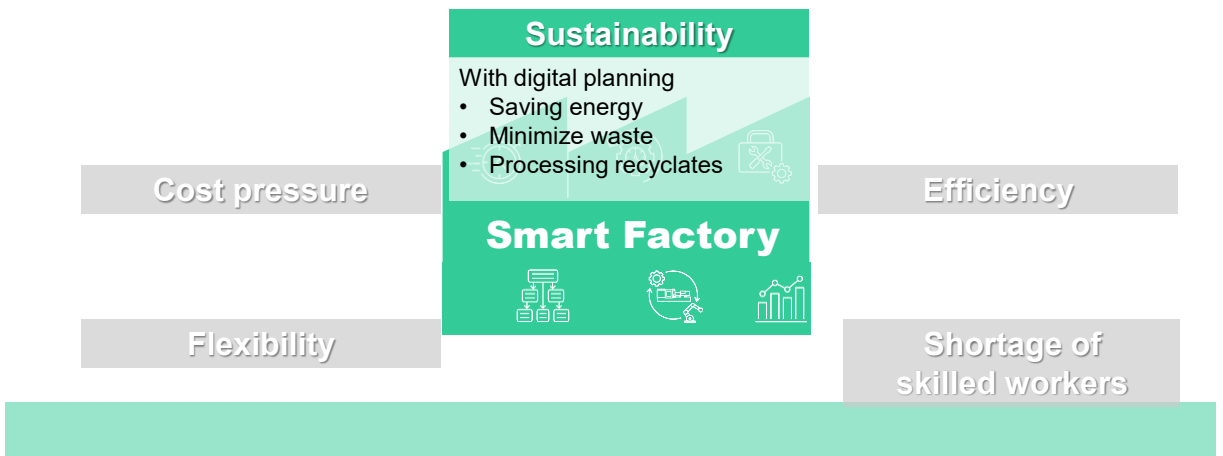
Part of the solution



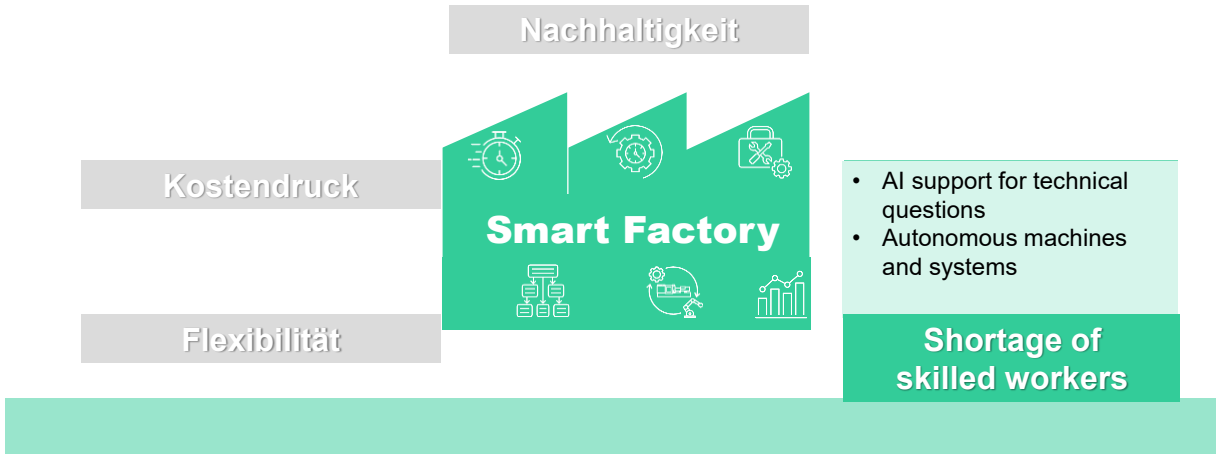
Part of the solution



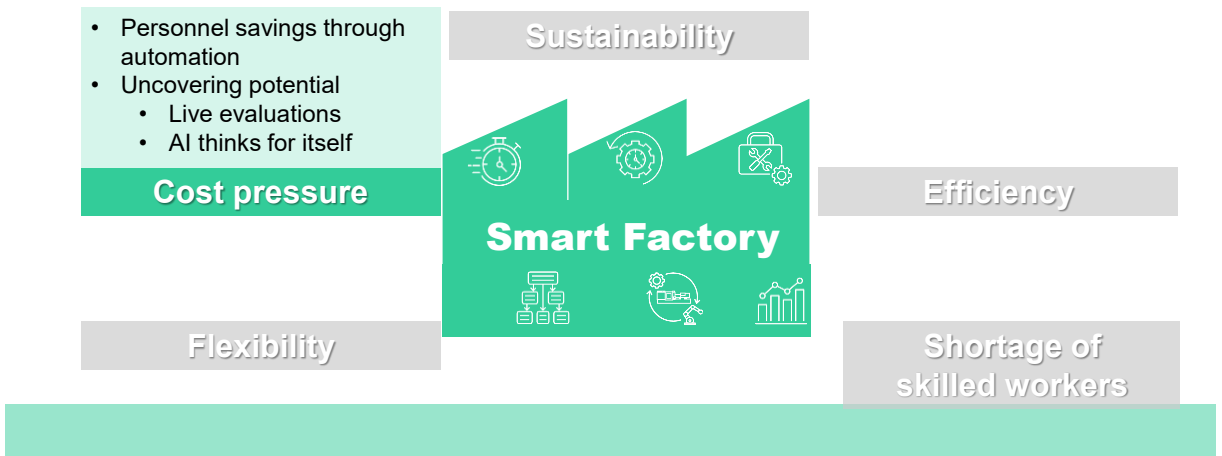
Part of the solution



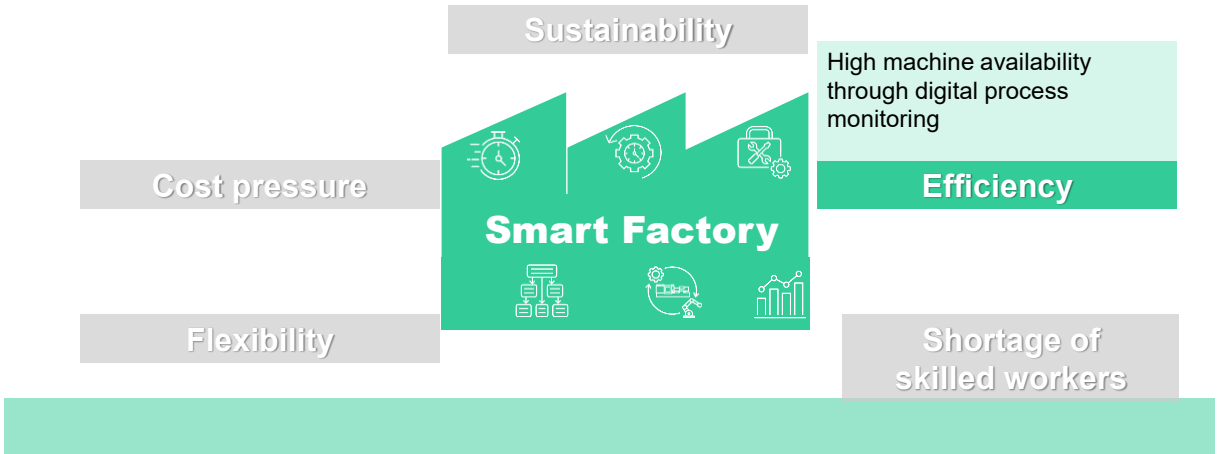
Part of the solution



Part of the solution



Part of the solution



Current trends and opportunities



Current trends and opportunities

Step to the smart factory is already possible today.
Essential for survival in the future!



Example: NextGen Medical Solution in the Customer Center



Multi-axis robots

aXw Control MouldLifeAssist

Hurdles in practice



„Start smart“ – In three steps



Important: implement in an agile and step-by-step manner
According to the Pareto principle: 20% effort – 80% result

Example: Reduce set-up times

- **Initial situation** Medium-sized contract manufacturer 24 machines
12 set-up processes per day
- **Improvement** Machine data records stored centrally
Broadcast online
- **Result** 12 min. savings (6 min. man/machine time each)
per makeready process

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**Savings:
18.000 EUR p.a.**



Whitepaper at
arburg.com

Example: Reduce downtime

- **Initial situation** Automotive-OEM
60 machines
Approx. 30 alarms per day, each with 15 min. downtime
- **Improvement** Detecting machine downtimes earlier
- **Result** Reduction of downtimes by 80% (15 min. → 3 min.)
1,300 hours less work per year

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**Savings:
87.000 EUR p.a.**



Whitepaper at
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Example: Collect data automatically

- **Initial situation** Consumer Goods Manufacturers
Manual data reading and processing for 80 machines
3 shifts
- **Improvement** Automatically collect and analyze data in real time
- **Result** 5,250 hours less effort per year



Example: Collect data automatically

- **Initial situation** ers
Manual data reading and processing for 80 machines
- **Improvement** Auto tect and analyze data in real time
- **Result** 5,25 effort per year











**Savings:
157.500 EUR p.a.**



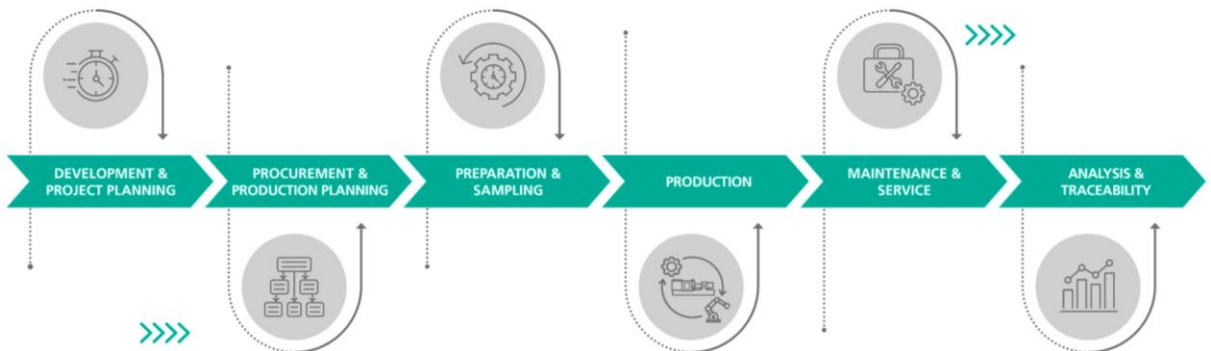
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10 Tips

 <p>1. Involve employees at an early stage</p> <ul style="list-style-type: none"> • Employees support change • Define those responsible • Practical knowledge is valuable and often avoids wrong decisions 	 <p>6. Introduce and measure KPIs</p> <ul style="list-style-type: none"> • Measured success motivates • Timely readjustment possible
 <p>2. Optimize existing processes first</p> <ul style="list-style-type: none"> • Inefficient processes are only shifted by digitization • Recording and optimizing current processes reduced 	 <p>7. Continuous development of processes and tools</p> <ul style="list-style-type: none"> • Introduce idea management • Train employees • Define and drive vision forward
 <p>3. Start with small steps</p> <ul style="list-style-type: none"> • Minimizes risks • Brings the fastest success (Pareto principle) • Define goals for each milestone + Management Attention 	 <p>8. Keep an eye on data quality</p> <ul style="list-style-type: none"> • Clean master data • No multiple maintenance • Determine which data is really needed (avoid data garbage)
 <p>4. Pay attention to good data infrastructure</p> <ul style="list-style-type: none"> • Allows for easy expansion later ("Think big") • Pay particular attention to scalability when it comes to IT equipment – Cloud vs. OnPremise 	 <p>9. Interfaces & Standards</p> <ul style="list-style-type: none"> • New systems and software must support modern interfaces • Standards (e.g. E77, REST-API, MQTT) save time and costs
 <p>5. Consider cybersecurity</p> <ul style="list-style-type: none"> • Modern technologies and good planning ensure the highest level of security (e.g. segmentation, backup concept) 	 <p>10. Involve partners</p> <ul style="list-style-type: none"> • Replacement helps avoid mistakes

Your Smart Factory with ARBURG



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