



The new ABB: pioneering technology leader in digital industries

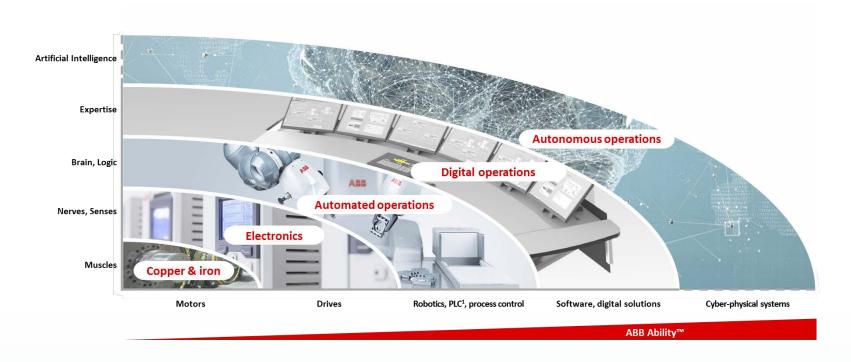


19th century 20th century 21st century





Writing the future with pioneering innovation





Breakdown





waiting/measuring/analyzing/organizing (+80% time spent) vs acting/solving (-20% time spent)



Autonomous driving ...





Autonomous logistics ...





Autonomous manufacturing ...





Autonomous operations ...





Digital technologies are driving new innovation in industrial markets



Virtual/augmented reality



Software-defined machines



Machine learning



Time-sensitive networking



Big data



Inexpensive computing



Cloud computing



Cybersecurity



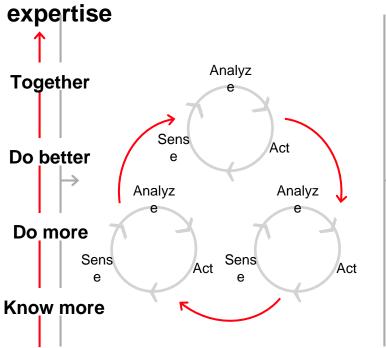
Connectivity

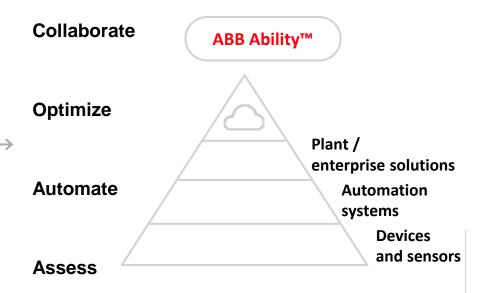


Blockchain



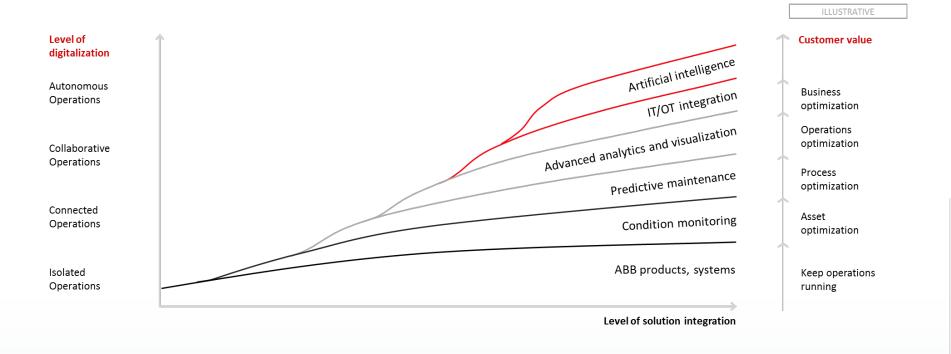
Digitally connected products and services providing



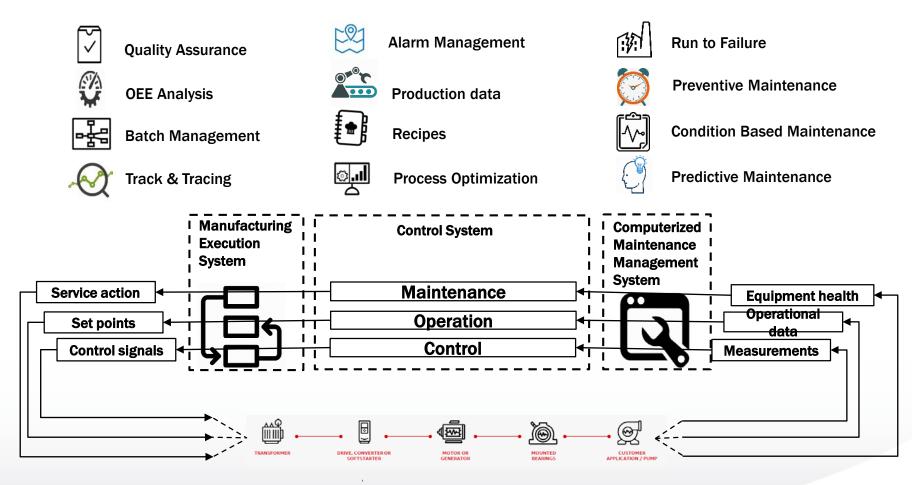




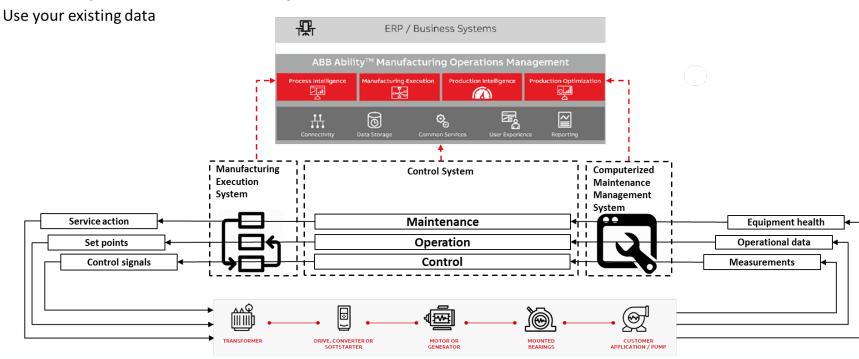
The future: enhanced customer value creation in digital industries





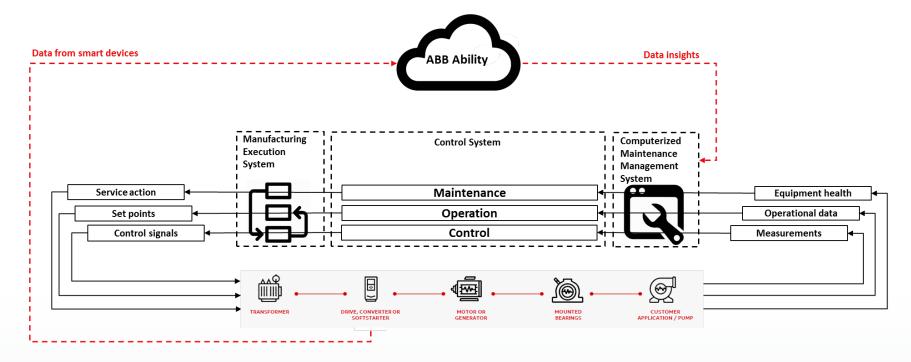








Unlock data from your smart devices





Example unlock data from your smart devices

ABB Ability™ Condition Monitoring for Drives



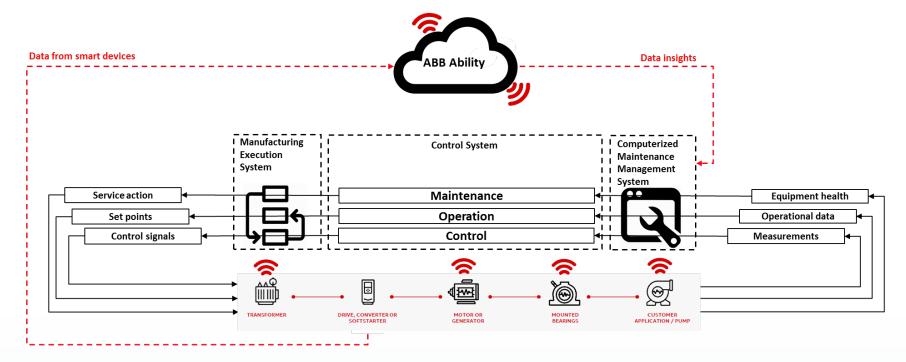








Make your assets even smarter





Example make your assets even smarter

ABB Ability™ Smart Sensor for rotating equipment







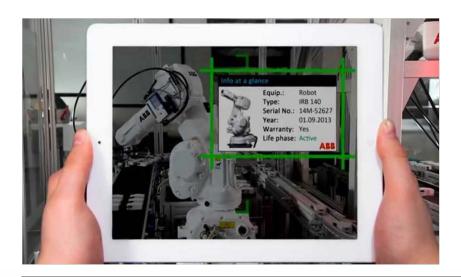






Applying latest technology to optimize maintenance and operations

Driving operational efficiency with Augmented Reality & Mixed Reality



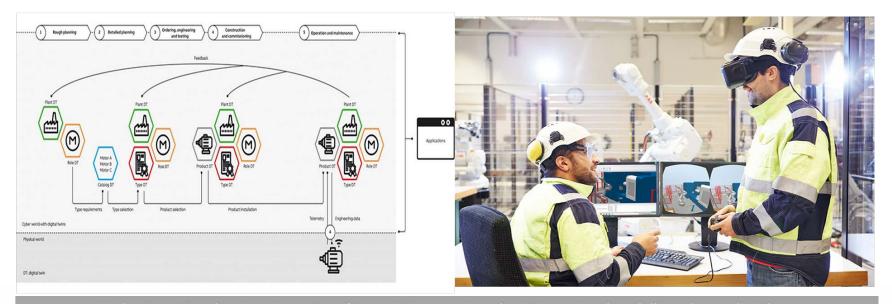


Remote support with fewer engineers and faster MTTR > robotized analysis and remote services



Applying latest technology to optimize maintenance and operations

Driving operational effectiveness with Digital Twins & Virtual Reality



Digital twins > virtual engineering > virtual commissioning > virtual training > virtual modelling > better digital twins



Applying latest technology to optimize operations

From automated towards autonomous logistics and Transport-as-a-Service







Automated Cranes > Automated Guided Vehicles > Transport-as-a-Service



Where are you on the digital journey?



Know more



Do more



Do better



Together



The Autonomous Plant – Practical approach

- 1. Start with the low hanging fruit
- 2. Adress hazardous and/or heavy and/or monotonous tasks
- 3. Involve your key ambassadors / guiding coalition
- 4. Build the business case for change & seek management sponsorship
- 5. Develop required skills & attitude
- 6. Optimize processes & structure
- 7. Use available technology
- 8. Manage the (pilot) project & monitor progress
- 9. Share success stories & get more colleagues engaged
- 10. Create your digital transformation journey



The Autonomous Plant - Participants











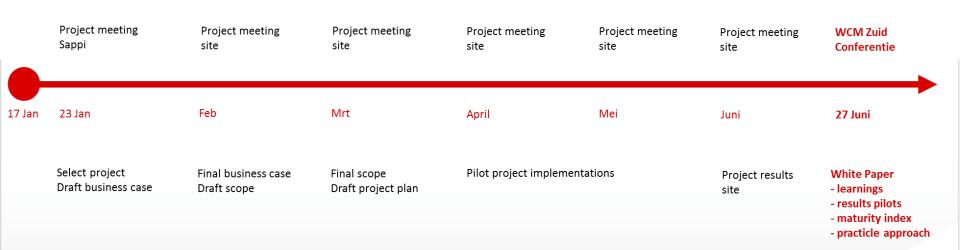








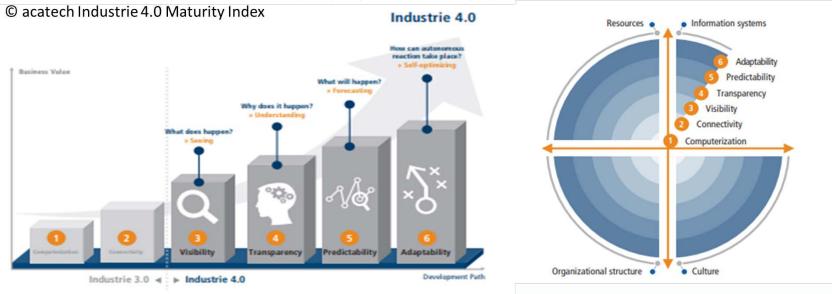
The **Autonomous** plant - Timeline





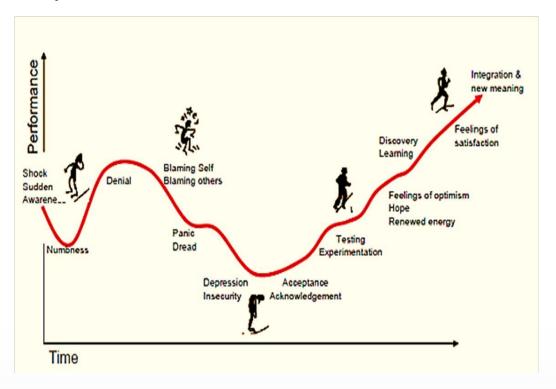
The Autonomous Plant – Possible approach "Maturity Index"

"Objective of a digital transformation is to become a learning, agile enterprise which, on the basis of data, makes better decisions faster and is capable of continually adapting itself to a changing environment"





Transition / Transformation





Thank you!

