

How ABB Ability™ can make your business more successful

August Ramle

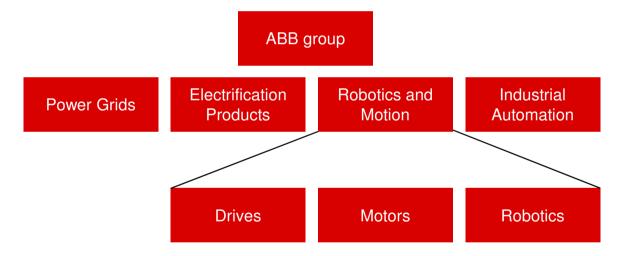
Technical lead engineer



What is ABB

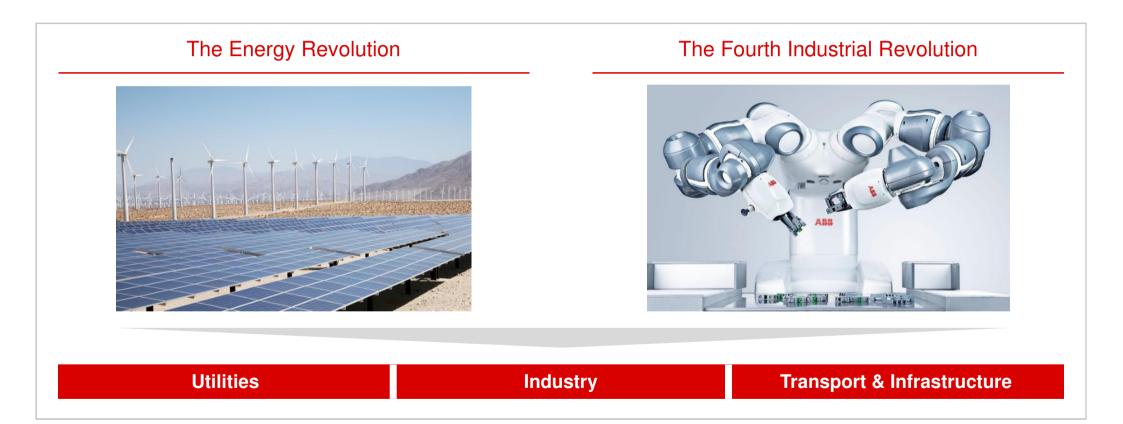
ASEA Brown Boveri

- · Swedish-Swiss multinational corporation located in Zurich, Switzerland
- · Worlds largest builder of electricity grids
- Core business power and automation
- 34 billion USD
- 134 800 employees



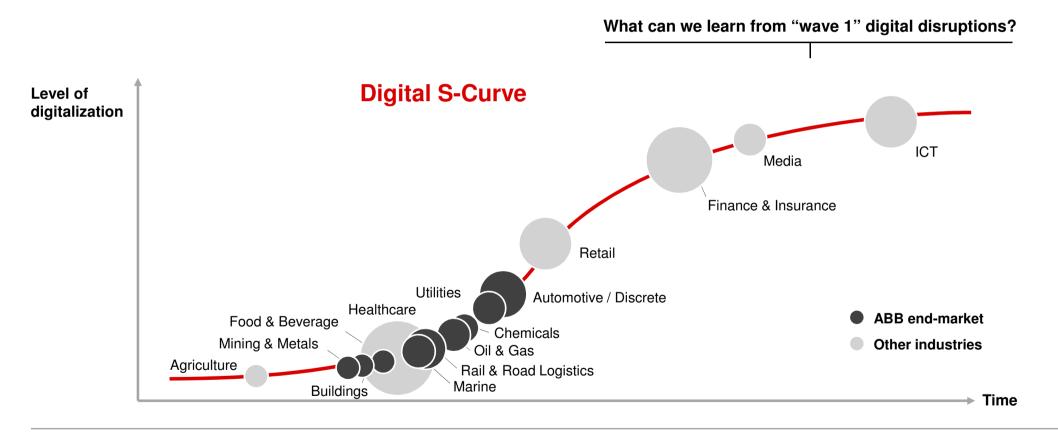


Twin disruptions: Energy and Fourth Industrial Revolutions



Lessons of digital transformation from the early adopters...

Computing + connectivity + cloud + analytics set to unlock value





Slide 4

Digital technologies are driving new innovation

Media is focused on B2C but the "killer app" is in B2B

Virtual/augmented reality

Software-defined machines

Machine learning

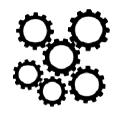
Time-sensitive networking

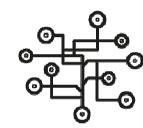
Big data











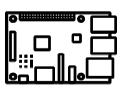
Inexpensive computing

Cloud computing

Cybersecurity

Connectivity

Blockchain







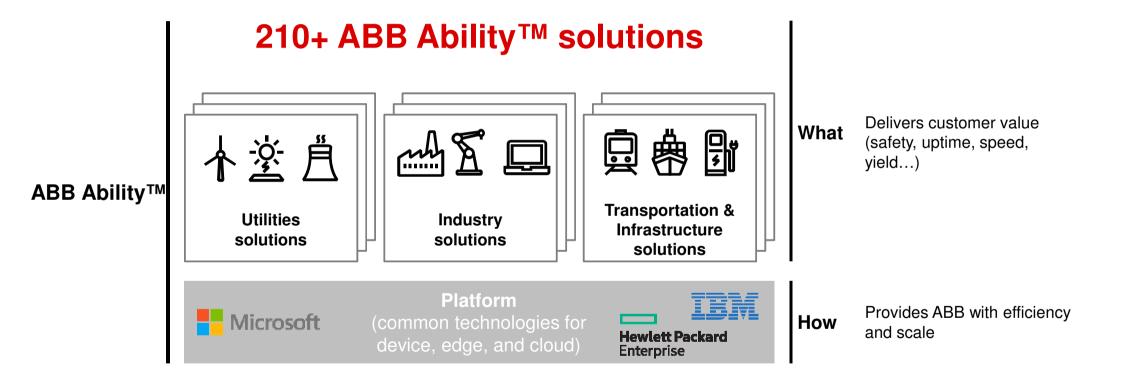




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ABB Ability™ solutions & platform





There are two loops: control loop & asset loop

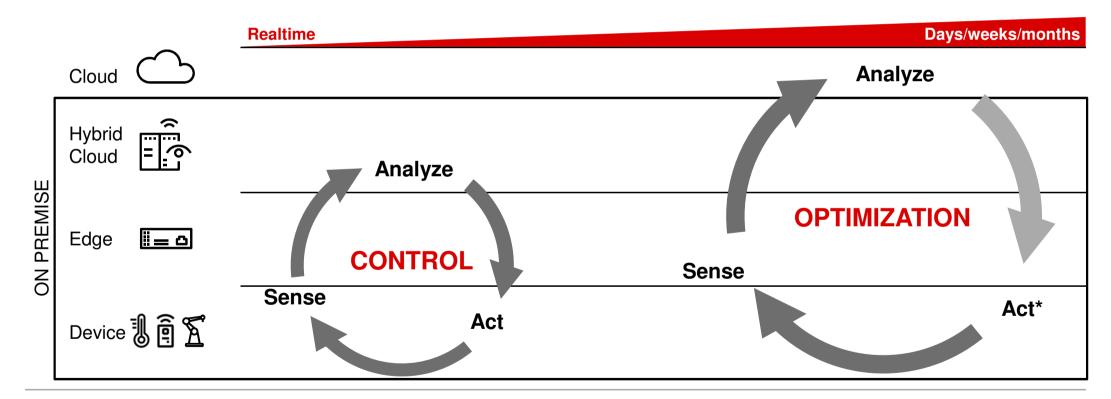




ABB Ability™ Data Manifesto

An IoT Business Data Bill of Rights



- Your data remains yours
- You know what we do with your data
- We will not disclose your data without your consent
- When you leave, all of your data leaves too

Platform capabilities to support Data Manifesto and GDPR:



Access Control



Data Classification



Secure Storage using Encryption



Insight of who accessed what

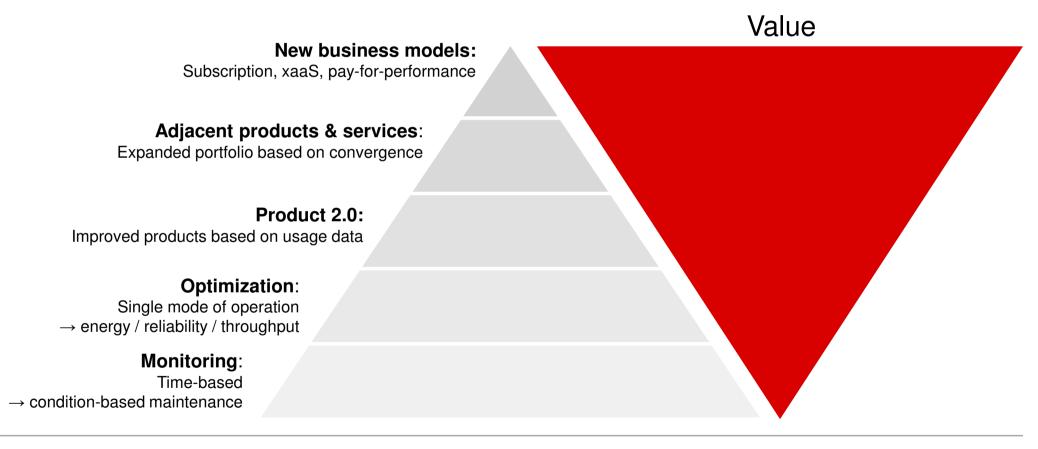


Secure removal of data



Value hierarchy of Internet of Things (IoT): aka "Maslow's hierarchy" for IoT

Creating vs capturing value





Connected Services

An application of ABB ability

- · Optimization of maintainance
- 25% less incidents and 60% faster reaction time
- Based on Azure

Difficulties

- To connect the systems. Customers does not have sophisticated IT departments
- Security

How?

• Embedded in new robots or edge devices

When?

- Been around for 15 years
- This time its going to be more real-time. Anomaly detection is also coming



