WILHELM WIESE, HEAD OF CORPORATE TECHNOLOGY CENTER INDIA, DECEMBER 3RD, 2019
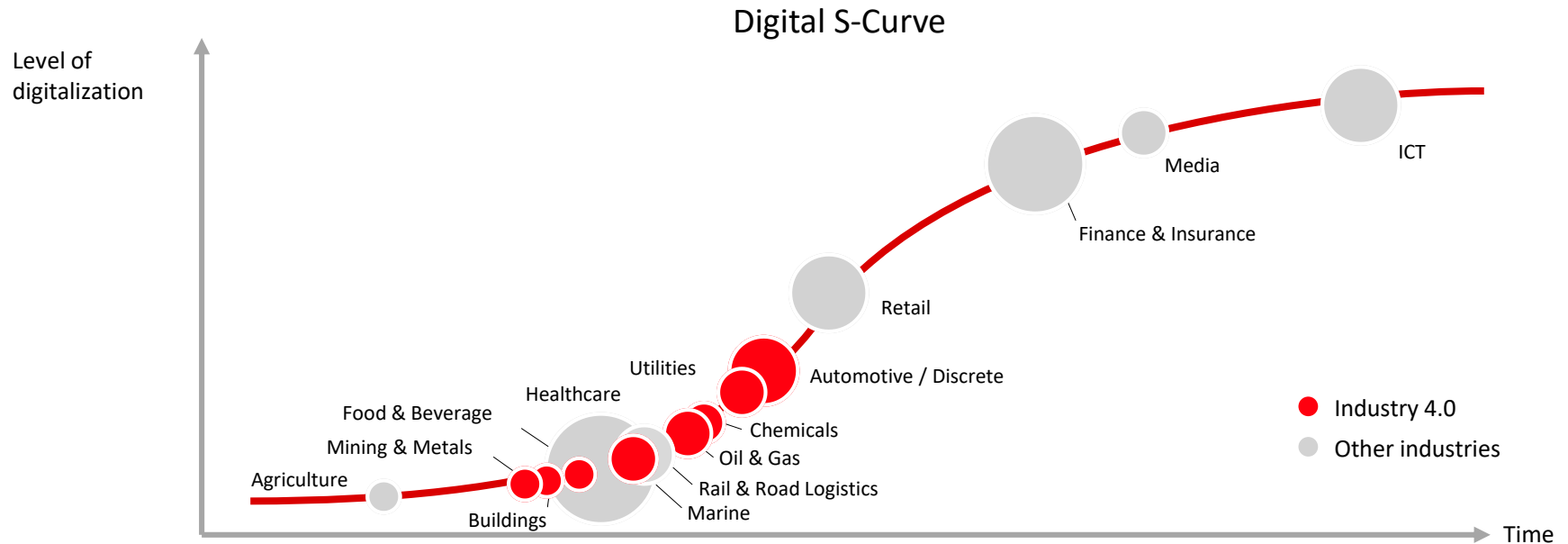
IoTNext 2019 - Virtual and Augmented Reality

A step change for industrial operation and services

ABB

Virtual and Augmented Reality

Commonalities across industrial operation and services

Digital S-Curve

Level of digitalization

Agriculture

Mining & Metals

Food & Beverage

Healthcare

Utilities

Buildings

Marine

Rail & Road Logistics

Oil & Gas

Chemicals

Automotive / Discrete

Retail

Finance & Insurance

Media

ICT

● Industry 4.0
● Other industries

Time

Estimated "level of digitalization" of various industries as a function of how long they have been pursuing it.

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Virtual Reality

A step change for industrial operation

Opportunities

- Control room design
- Control room consolidation
- Remote operation

Challenges

- Real-time user interface
- Connectivity and cyber security
- Safety

Virtual Reality – All information any time and anywhere

ABB

Augmented Reality

A step change for industrial services

Opportunities

- Detailed product information
- Specific service instructions
- Remote experts

Challenges

- Voice control user interface
- Harsh environments

Augmented Reality – Manufacturer independent services

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