

VILNIUS, LITHUANIA, OCTOBER 12TH, 2017

Digital Transformation – ABB way

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Digital, Innovation, Disruption, etc....

The electric light did not come from the
continuous improvement of candles.

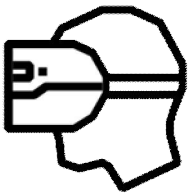
Oren Harari

Ph. D. Prof. Of Uni. of S. Francisco, 1949 – 2010

Digital technologies are driving new innovation in industrial markets

Media is focused on B2C but the “killer app” is in B2B

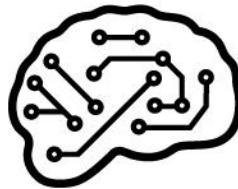
Virtual/augmented
reality



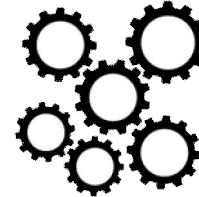
Software-defined
machines



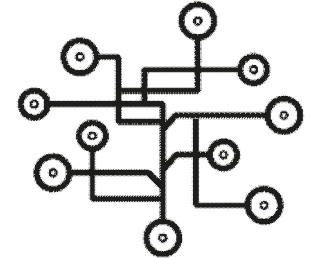
Machine learning



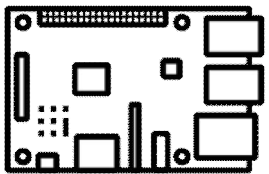
Time-sensitive
networking



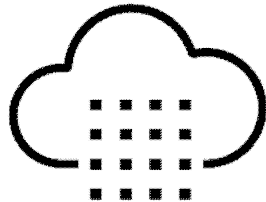
Big data



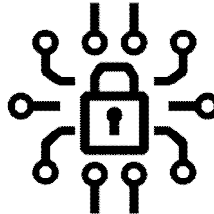
Inexpensive computing



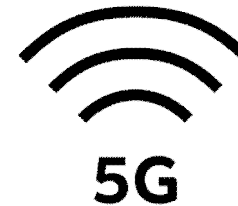
Cloud computing



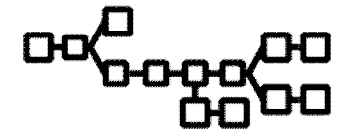
Cybersecurity



Connectivity

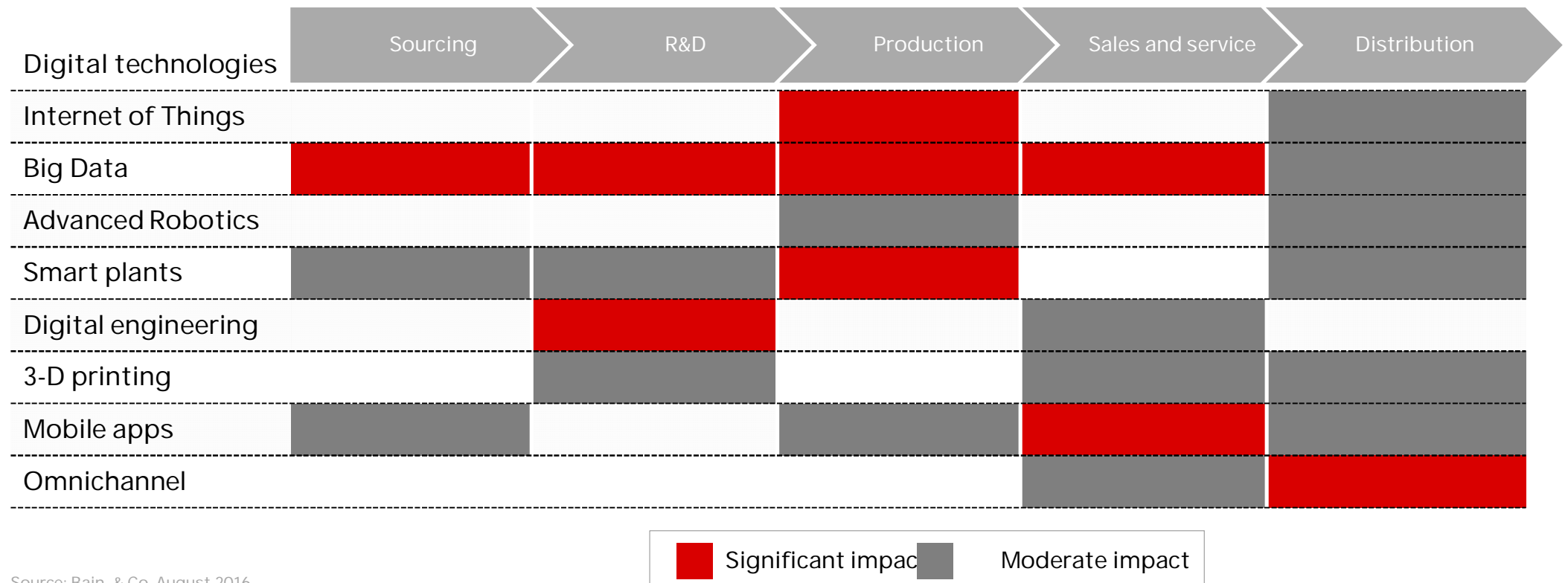


Blockchain



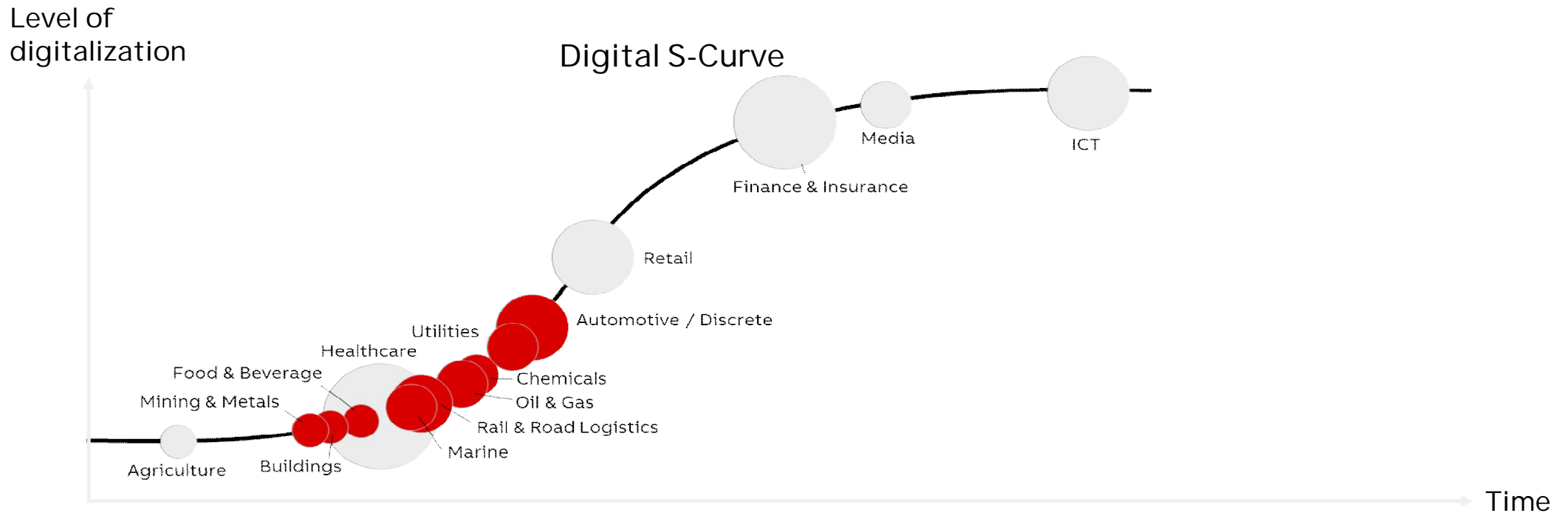
Digital trends affecting the value chain

Threats and opportunities



Industrial markets primed to adopt digital technologies

Computing + connectivity + cloud + analytics set to unlock value



What does it take to win in digital?

Mastering the control room

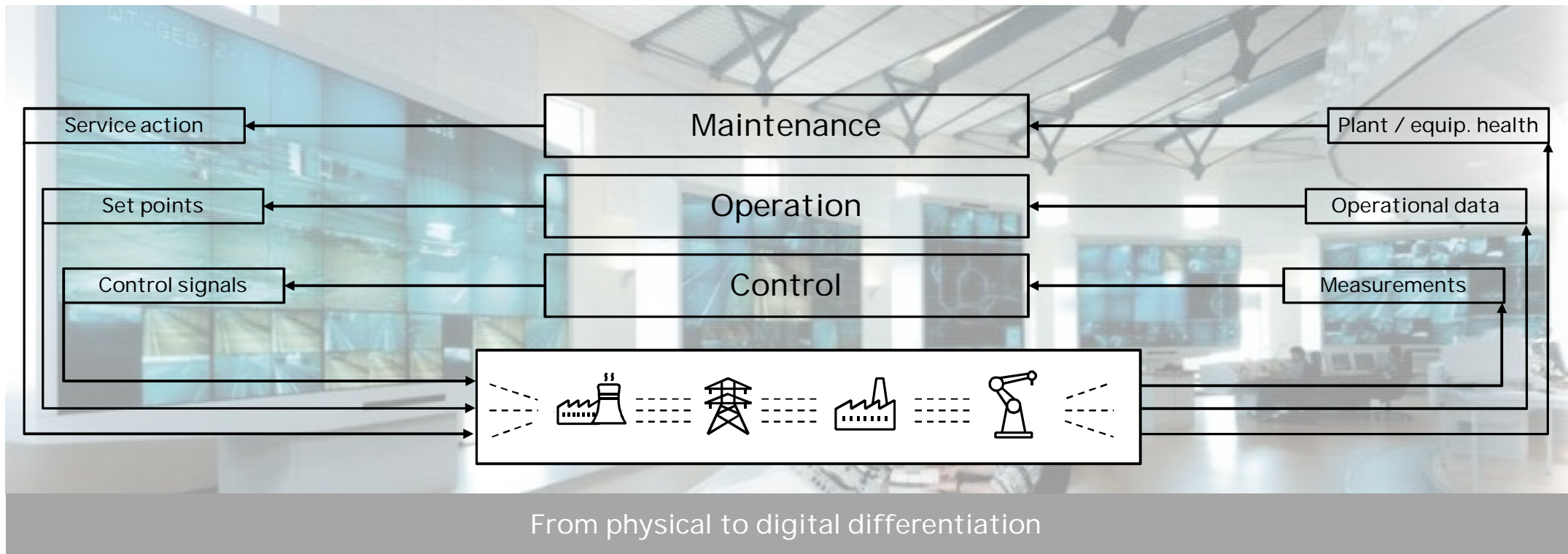


ABB Ability™ solutions & platform

180+ ABB Ability™ solutions

ABB Ability™



What Delivers customer benefit
(uptime, speed, yield...)

How Provides ABB with
efficiency and scale





SELECTION

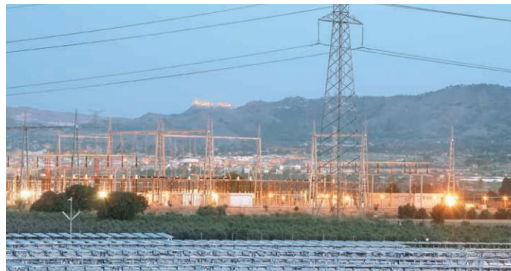
Utilities

Reduced installation time (-40%), maintenance costs (-50%) and outage time (-50%)

Asset performance management



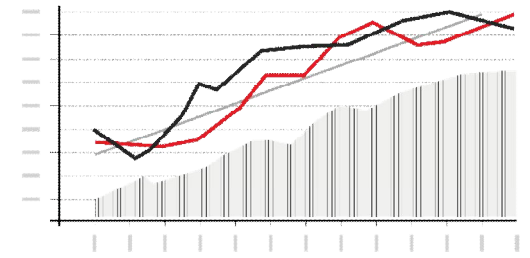
Distributed energy resource management



Maintenance workflow management



Energy market trading system



Automated digital substation



Standard IP communications



Microgrids





SELECTION

Industry

Improved productivity (+200%), reduced energy (-30%), & longer product life (+30%)

Connected robots



Digital simulation for robot deployment



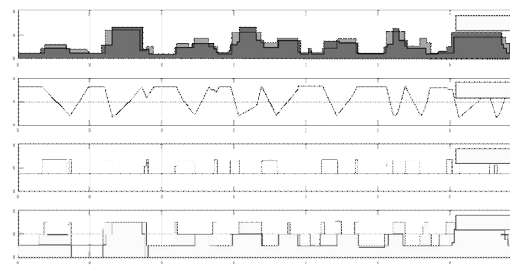
Manufacturing execution systems



Power quality monitoring & demand-response



Energy assessment



Distributed control systems



Cybersecurity assessment



Remote monitoring & optimization





SELECTION

Transport & Infrastructure

Proactive detection of faults (90%), reduced maintenance costs (-20%) and energy costs (-5%)

Remote monitoring for ship electrical systems



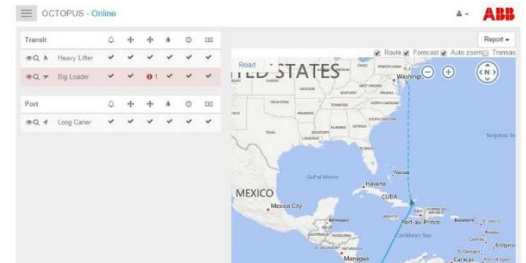
Building automation



Vehicle-to-grid demand/supply coordination



Navigation optimization for fleets



EV charging with cloud management



Flash-charging electric buses



Energy management for mega-datacenters



How ABB Ability™ solutions deliver value

Digitally connected products and services providing expertise

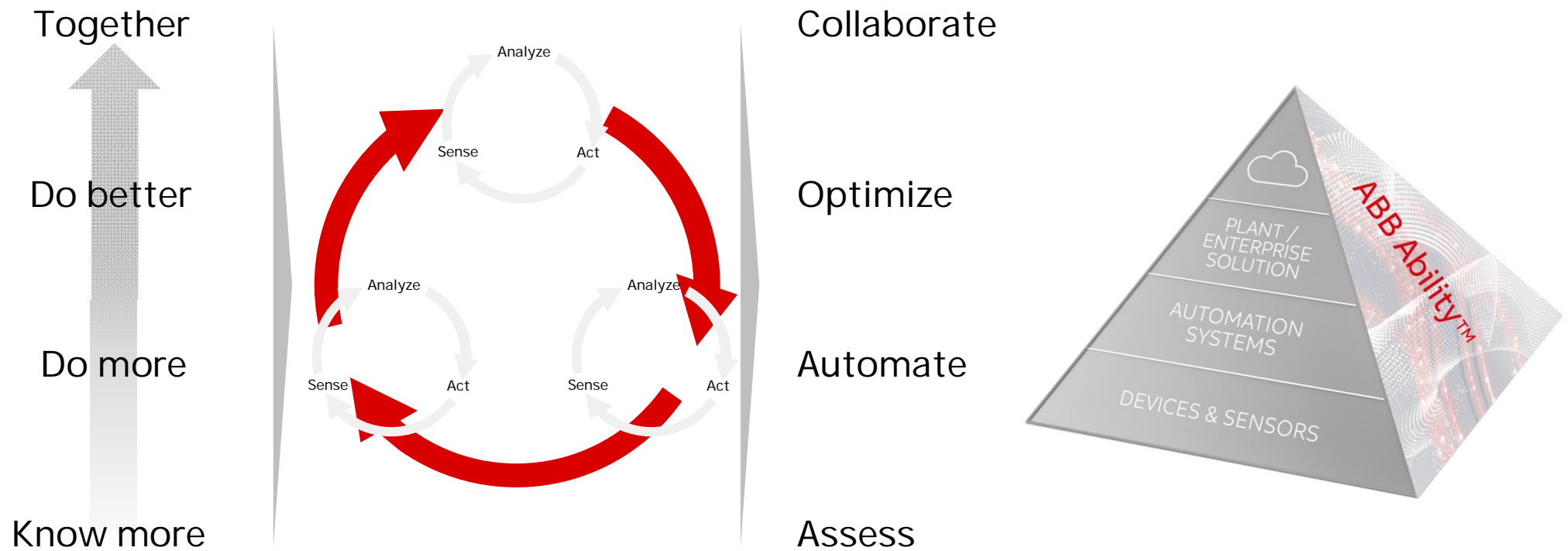
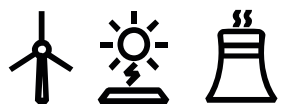


ABB Ability™ solutions' customers



Utilities



Industry



Transportation &
Infrastructure



AIBB