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Industrial Automation

Writing the future of safe and smart operations in process and hybrid industries

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Important notices

This presentation includes forward-looking information and statements including statements concerning the outlook for our businesses. These statements are based on current expectations, estimates and projections about the factors that may affect our future performance, including global economic conditions, and the economic conditions of the regions and industries that are major markets for ABB Ltd. These expectations, estimates and projections are generally identifiable by statements containing words such as "expects," "believes," "estimates," "targets," "outlook", "on track", "2019 framework" or similar expressions.

There are numerous risks and uncertainties, many of which are beyond our control, that could cause our actual results to differ materially from the forward-looking information and statements made in this presentation and which could affect our ability to achieve any or all of our stated targets. The important factors that could cause such differences include, among others:

- business risks associated with the volatile global economic environment and political conditions
- costs associated with compliance activities
- market acceptance of new products and services
- changes in governmental regulations and currency exchange rates, and
- such other factors as may be discussed from time to time in ABB Ltd's filings with the U.S. Securities and Exchange Commission, including its Annual Reports on Form 20-F.

Although ABB Ltd believes that its expectations reflected in any such forward-looking statement are based upon reasonable assumptions, it can give no assurance that those expectations will be achieved.

Some of the planned changes might be subject to any relevant I&C processes with the Employee Council Europe and / or local employee representatives / employees.

This presentation contains non-GAAP measures of performance. Definitions of these measures and reconciliations between these measures and their US GAAP counterparts can be found in the 'Supplemental reconciliations and definitions' section of "Financial Information" under "Quarterly results and annual reports" on our website at www.abb.com/investorrelations



Industrial Automation at a glance

Key figures¹

Global #2

#1 in DCS and process automation solutions

#3 in measurement & analytics

#1 in marine & turbocharging

Slide 3

~\$90 bn

global market size

~\$6.5 bn

2018 revenues

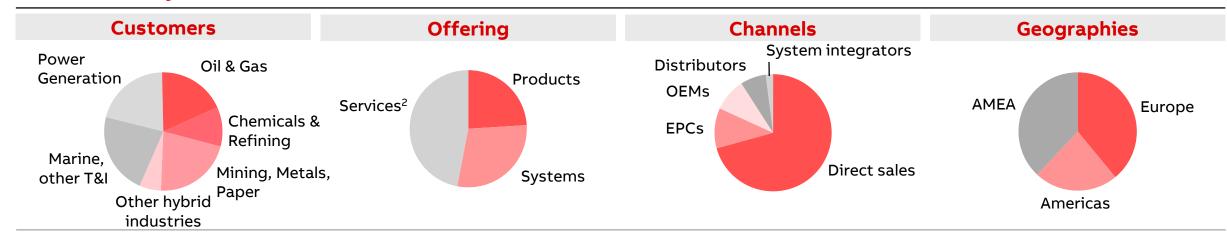
14.1%

2018 op. EBITA

~21 k

employees worldwide

Business mix (by revenue)





2018 delivered, positioned for profitable growth

Leadership in process automation – # 1 in DCS, 19th consecutive year

Profitable Growth Orders \$6.8 bn, 8% up; large orders returned to growth

Revenues \$6.5 bn, stable; ABB Ability™ digital service revenues doubled in two years

Order backlog grew for first time since Q4 2015

Relentless Execution Delivered \$914 mn operating EBITA at a 14.1% margin

Profitability driven by strong execution and positive business mix, including EPC exit

Decreased working capital, improved return



Growth across regions and businesses in 2018

Cross-divisional collaboration, integral to IA business model

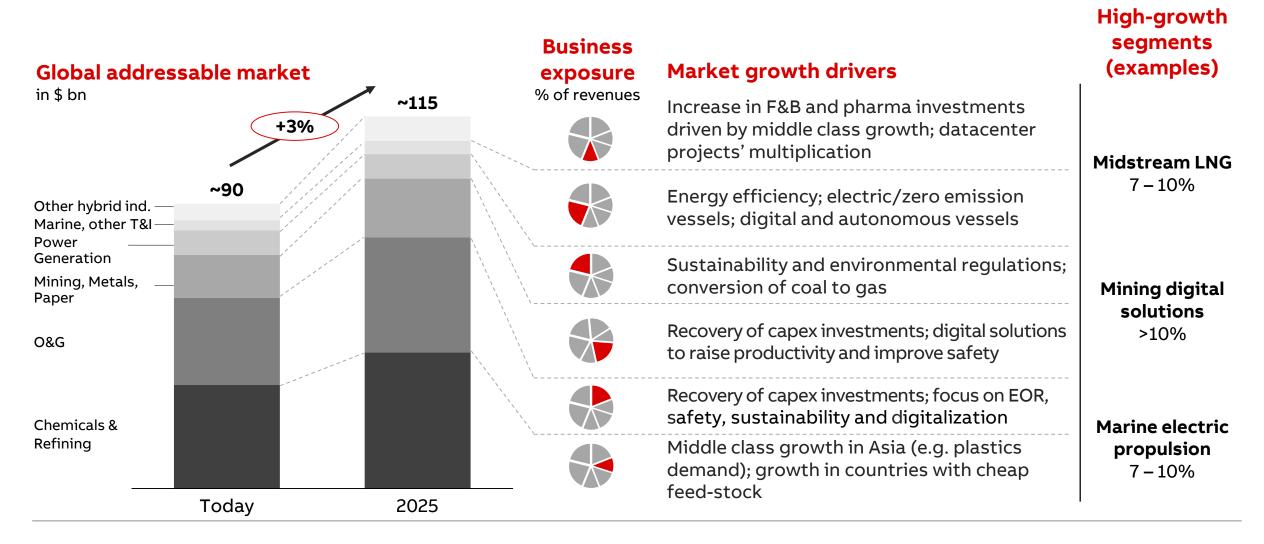








Addressing attractive markets





Customer needs in process and hybrid industries

Addressing customer needs...

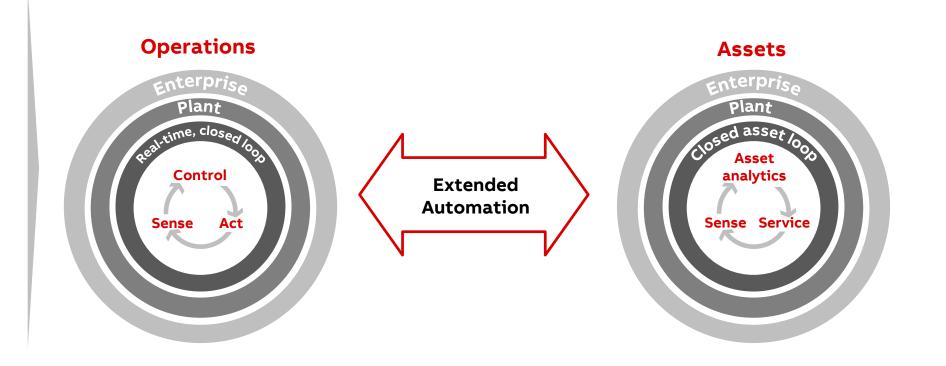
...by mastering operations and asset loops during the project and operations phases

For capital projects: reduce...

- Cost
- Schedule
- Risk

For operations: improve...

- Safety
- Productivity
- Energy efficiency





Positioned to win...

Safe and smart operations

Pioneering technology



#1 in DCS for 19th consecutive year

125+ years in automation

February 28, 2019

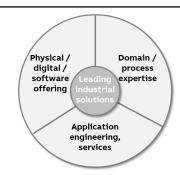
2 **Industry expertise**



Enabling customers to realize most complex projects¹ and run mission critical, real-time operations

Strong market share in industry-specific products

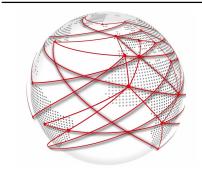
Solutions-oriented business model



Channel to market for **ABB** products

ABB Ability™ digital solutions

Vast global footprint



Largest service footprint

Presence in 100+ countries

24/7 ABB Ability™ Collaborative Operations™



Sales after Service, **Service after Sales**



Largest installed base

35,000 connected systems

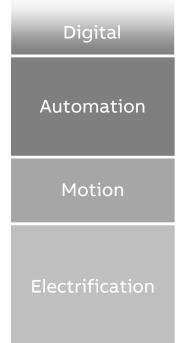
35,000,000 connected devices

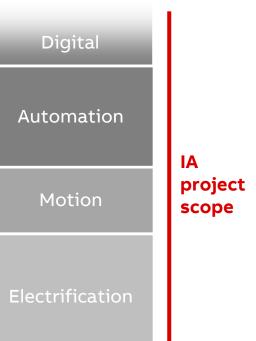


...and capture larger scope in Capex projects for ABB

Illustrative: typical scope of a greenfield opportunity in OGC

Digital **Typical** automation Automation vendor





IA

offering

Other ABB offering

Customer benefits

Integrated automation of process, electrical and motion

Augmented by software and digital services

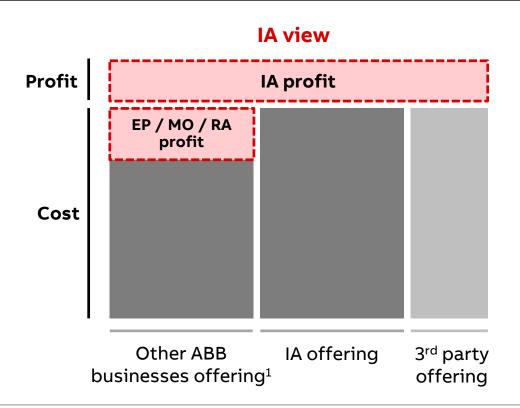
Reduced installation and maintenance costs

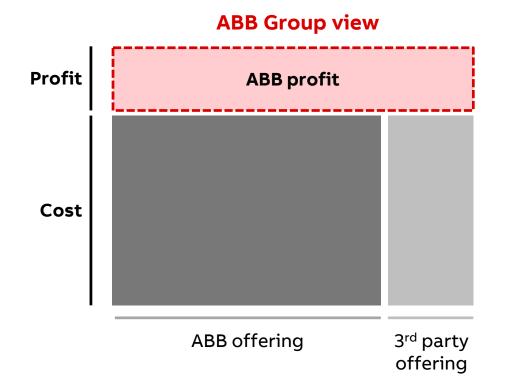
Integrated lifecycle services across the full scope



IA generates value for ABB both directly and indirectly

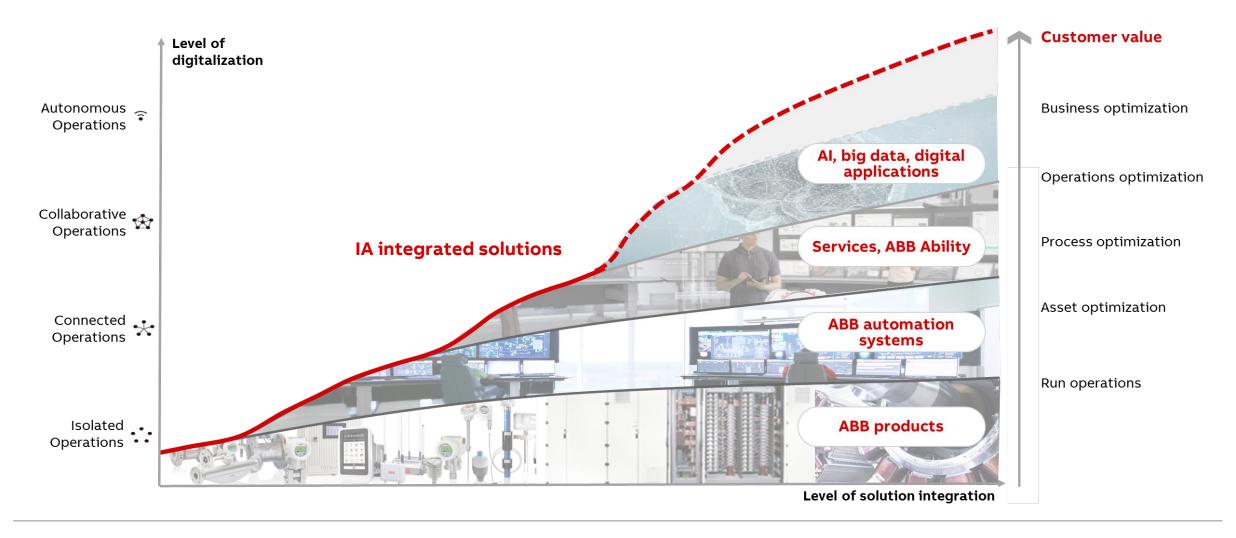
Illustrative: example of a typical solutions order







Serving customer needs with most comprehensive solutions portfolio



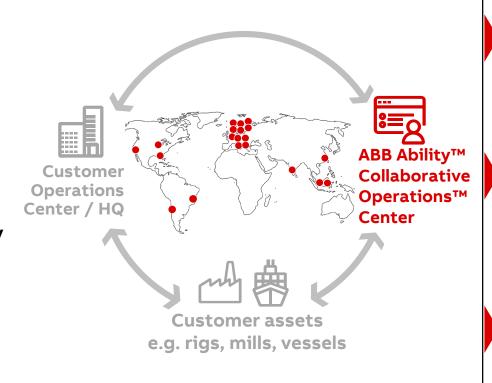


Leading solutions portfolio for ABB Ability™ Collaborative Operations™

Transforming the way we work with customers with 24/7 access to ABB experts

For operations: improve...

- Safety
- Productivity
- Energy efficiency



of customers connected¹ 900+ industrial plants800+ marine vessels40+ mines

Key benefits (selection)

Increased **productivity**Higher **uptime**Lower **maintenance costs**Improved **operational performance**

Key results (selection)

Oil & Gas: -30% op. expenditures Mining: \$5 mn of op. savings p.a. Pulp & Paper: -55% maintenance

Power Generation: +20% machine life

Marine: \$350k savings per vessel



What's next?

Towards autonomous: driving pioneering technology leadership in digital industries



Today



Tomorrow

1890

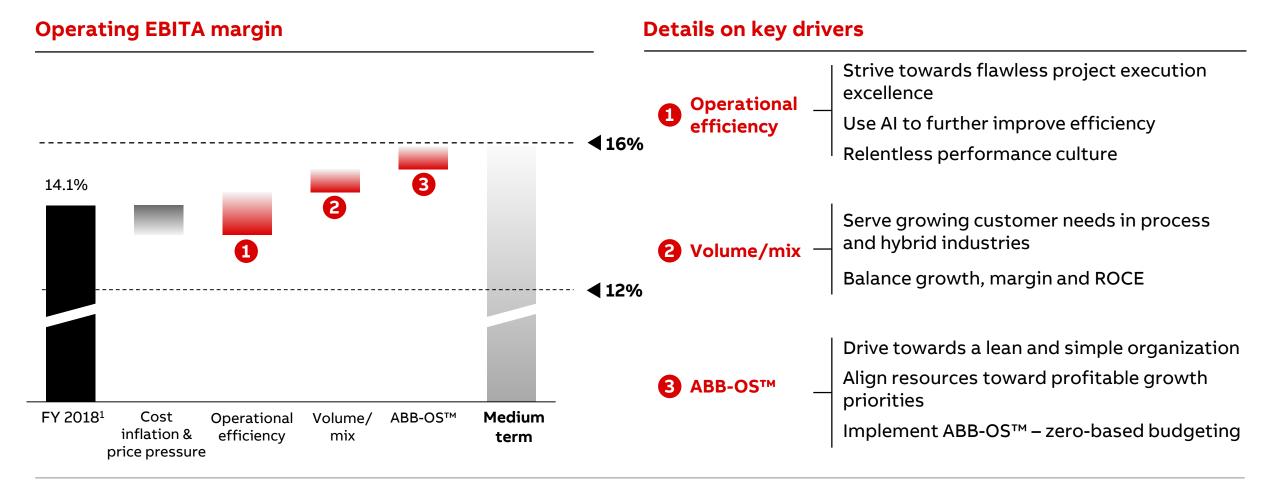
1980

Driving above-market growth going forward

Drivers for above-market revenue growth Medium-term revenue development Prioritize verticals and drive tailored growth initiatives Leverage unique installed base and vast service footprint to **Penetration** support customer lifecycle 3% p.a. Drive industry consolidation and increase market share \$6.5bn Build on DCS leadership to provide integrated solutions across process, electrical, motion and digital **Innovation** Accelerate revenues from ABB Ability™ solutions, new software applications and service business models Innovate new sensor and analyzer technologies Add industry-specific, differentiated solutions based on anchor products and comprehensive ABB offering **Expansion** Market share Medium FY 2018¹ Market Increase focus on fast-growing hybrid segments gains growth term



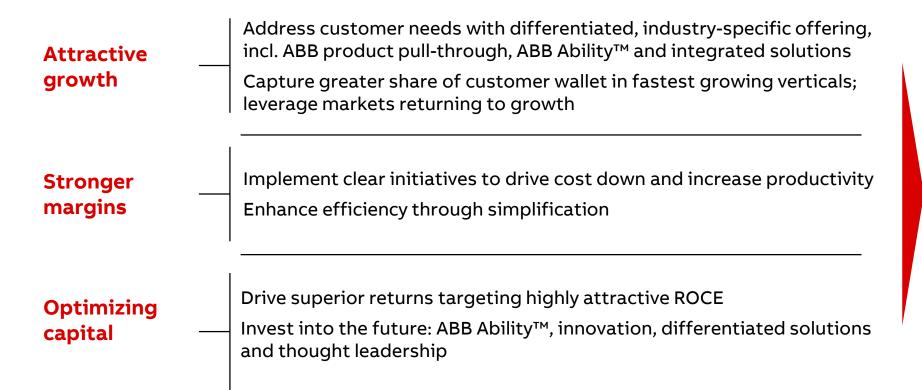
Driving op. EBITA margin within the target margin corridor of 12 – 16% with little additional capital





Creating value for customers in process & hybrid industries and ABB

Writing the future of safe and smart operations



Medium-term operational EBITA margin

12 - 16%



Let's write the future of safe and smart operations. Together.



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