

NOVEMBER 5, 2019

ABB Electrification Investor Day

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President, Electrification/CFO, Electrification

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- costs associated with compliance activities
- market acceptance of new products and services
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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.

On December 17, 2018, ABB announced an agreed sale of its Power Grids ("PG") business. Consequently, the results of the Power Grids business are presented as discontinued operations. The company's results for all periods have been adjusted accordingly. Net income, EPS and Cash flow from operating activities include results from continuing and discontinued operations.

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, annual reports and regulatory filings" on our website at www.abb.com/investorrelations

Meet the Electrification team

Business lines



Alessandro Palin Managing Director, Distribution Solutions

Giampiero Frisio Managing Director, Smart Power



Oliver Iltisberger Managing Director, Smart Buildings



Matthias Heilmann Managing Director, Installation Products

Global markets

U.S.



Mike Mustapha Head of Global Markets

Maryrose Sylvester U.S. Country Managing Director

Functions



Christian Nilsson Chief Financial Officer



Amina Hamidi Chief Technology Officer



Tarek ElHadidi Chief Information Officer



Andrea Menti Head of Operations



Anton Kotov Head of Strategy & Digital

Monique Elliott Head of Customer Experience



Electrification in ABB's portfolio

	Electrification	Industrial Automation	Motion	Robotics & Discrete Automation	
	Global #2	Global #2	Global #1	Global #2	
Market size	\$160 bn	\$90 bn	\$80 bn	\$80 bn	
Mid-term growth	3%	3%	3%	6%	
2018 revenues	\$13.0 bn ¹	\$6.5 bn	\$6.5 bn	\$3.6 bn	
2018 op. EBITA %	12.8% ¹	14.1%	15.9%	14.6%	
Employees	~55 k	~21 k	~20 k	~11 k	

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Safe, smart, and sustainable electrification for our customers and partners

What we will show you today

Driving growth

- Aligned to key mega-trends
- Well positioned in high-growth segments

Differentiating in our markets

- Scope and scale advantage
- Market leading core technology and innovation
- Digital creating value for customers

3

Creating value through operational excellence

- Continuous improvement
- GEIS integration, Installation Products turnaround

ABB Electrification

Understanding ABB Electrification

Driving growth

Differentiating in our markets

Creating value

Q&A

Serving markets from source to socket

Products, solutions and services across utilities, industry, transport & infrastructure



Electrification business lines

Aligned to customer needs

Distribution Solutions



#1 Medium voltage

Medium and low voltage control & protection products, systems & switchgear, automation & services

~\$5 bn¹

GEIS integration





~\$3 bn¹



~\$3 bn¹

#2 Low voltage

Low voltage breakers & switches, motor & power protection, electric vehicle charging infrastructure & service

Miniature breakers, distribution enclosures, wiring accessories, building automation

Installation Products



~\$2 bn¹

#2 Installation products

Wire & cable management, termination, fittings & other accessories

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¹Management estimates for business line revenues over last twelve months to end Q3 2019 including GEIS, on an unconsolidated basis and excluding Solar inverters



How we run our business lines

Mid-term priorities

	Distribution Solutions	Smart Power	Smart Buildings	Installation Products	
Focus	Margin	Profitable growth	Profitable growth	Turnaround	
Priorities	Integrate GEIS New solutions design ABB Ability™ Asset mgmt.	Integrate GEIS ABB Ability™ Energy mgmt. Solar inverter business carve-out	Integrate GEIS ABB Ability™ Building mgmt. and IoT ecosystem	Turnaround Simplify portfolio	
Skills & capabilities	Distribution grids Solution architects	Digital talent E-mobility	Building automation System integration	Operational excellence Supply chain turnaround	
Salesforce spend	=	++	++	-	
R&D investment	+	++	++	=	
Capital intensity	-	-	-	-	
Cash flow	++	+	+	++	

ABB Electrification build phase

+Thomas & Betts (2012) Broadened LV offer, U.S. became ABB's largest market	LV Products division	ABB realignment from 5 to 4 divisions	Bringing together all electrification components	+GEIS Strengthens #2 global position, expands U.S.	
	2015 ¹ Incl. T&B	2016 ¹ + MV Products	2017 + Solar inverters, critical power, EV charging	2018 ² + expanded LV, MV for U.S.	Today ³
Revenues	6.5	9.3	10.1	13.0	12.8
Total margin ⁴	~17	← (~1	.50) bps	(>250) bps	12.9
(\$ hp or % terms upless otherwise stated)					

(\$ bn or % terms, unless otherwise stated)

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Electrification operational EBITA margin

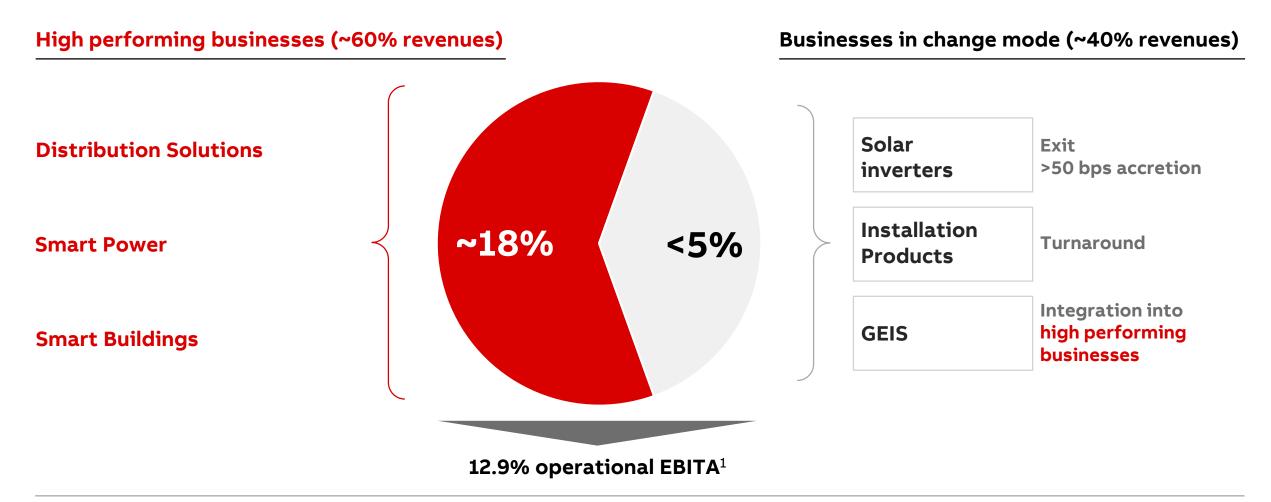


ABB Electrification

Understanding ABB Electrification

Driving growth

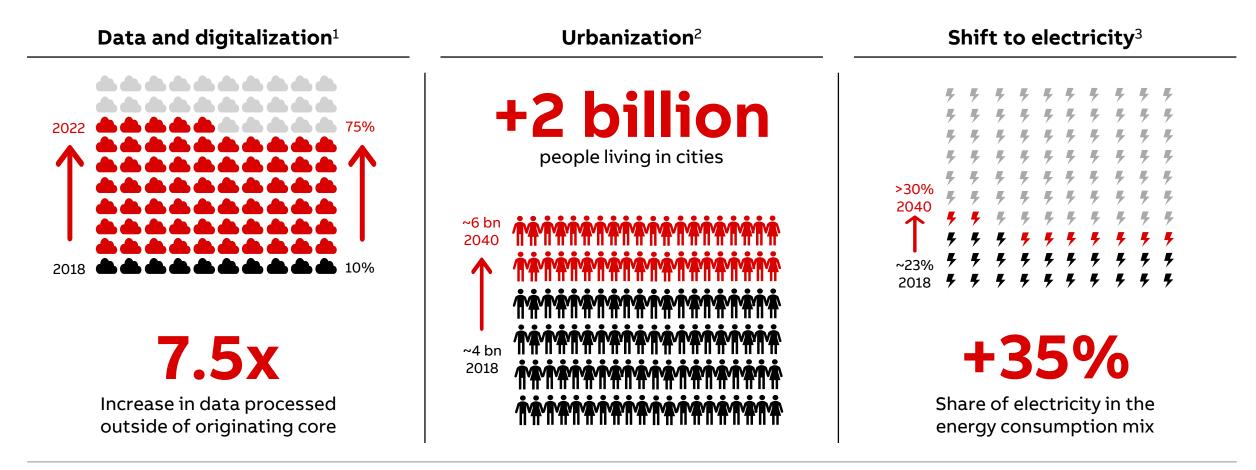
Differentiating in our markets

Creating value

Q&A

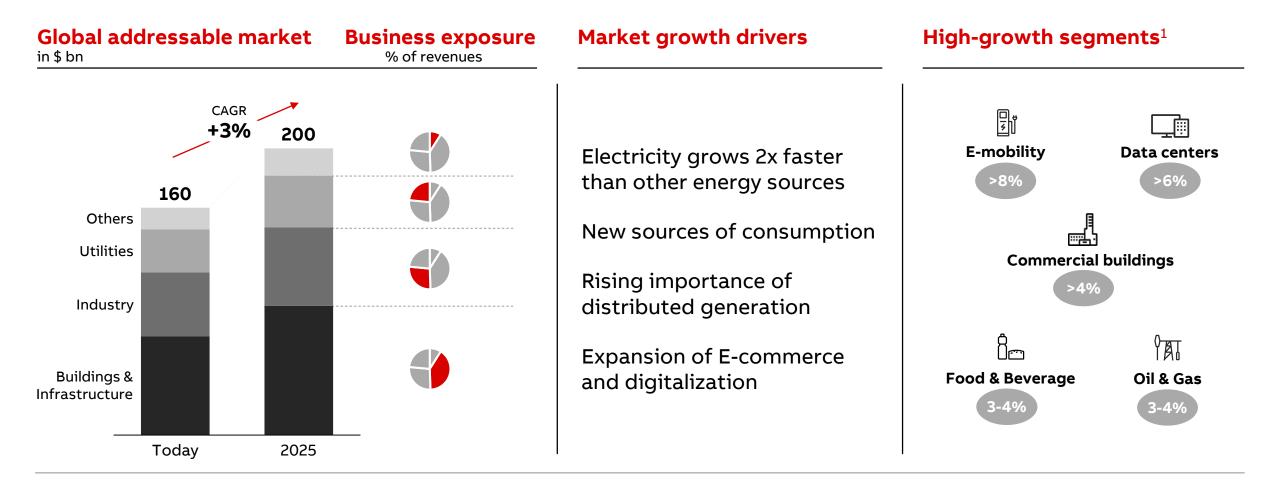
Aligned to key mega-trends

The world is going digital, urban, and electric

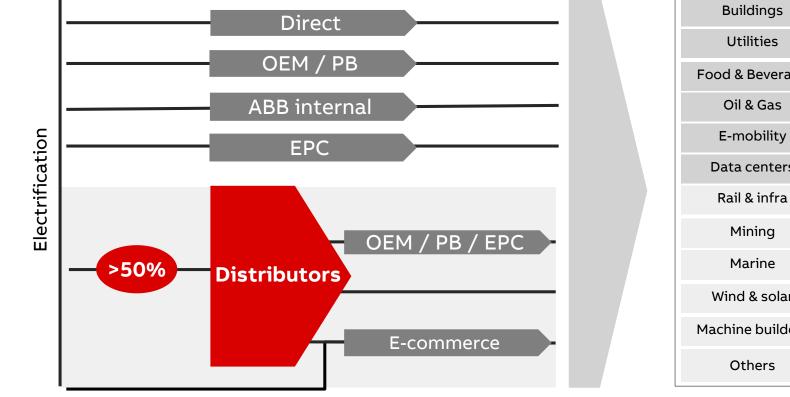




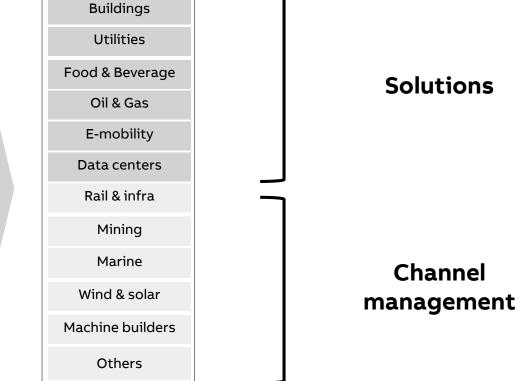
Well positioned in high-growth segments



Distinct channels and solutions



+30 segments



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ABB Electrification

Understanding ABB Electrification

Driving growth

Differentiating in our markets

Scope and scale Innovation Execution

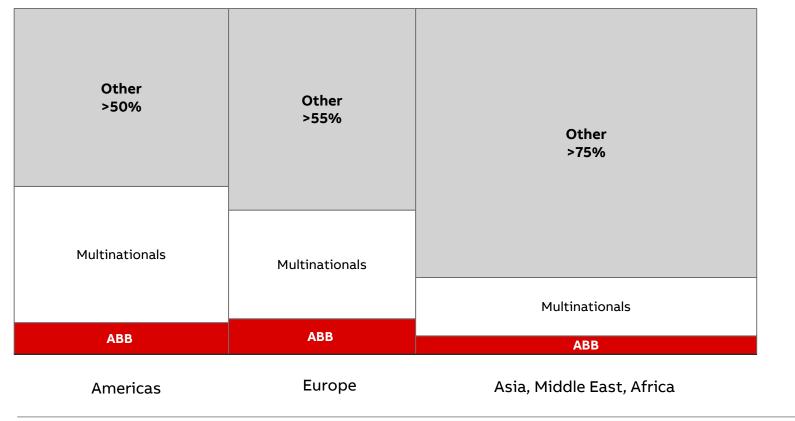
Creating value

Q&A

Scope and scale advantage

Local access combined with large scale advantage

Global electrification market structure¹



Local offers / global core

+

Manufacturing scale (cost advantage)

+

R&D leverage

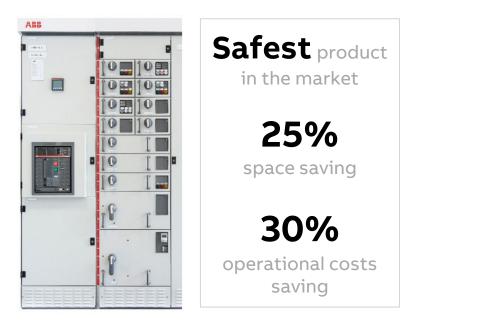
+

Global digital platform

Market leading core technology

Electrification's cutting-edge innovation DNA

NeoGear switchgear



Major innovation in +\$35 bn market



Market-defining products

+

Innovation ecosystem: >2,700 technologists in 48 centers

-

R&D investment: >\$300 mn p.a.¹

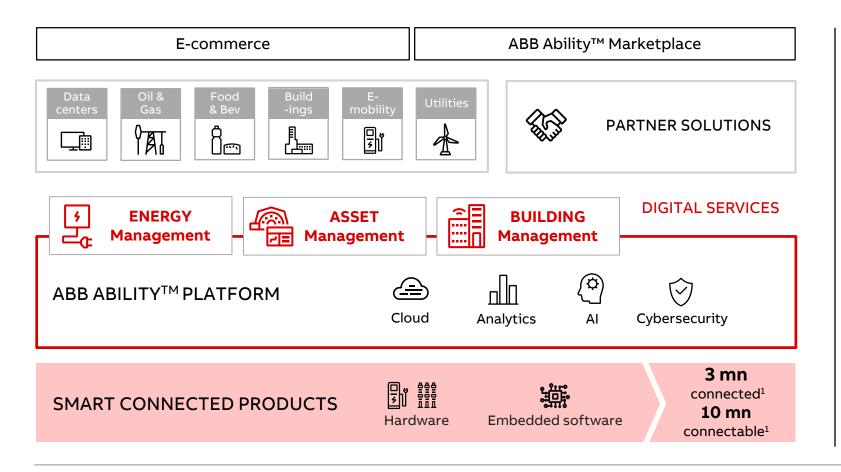
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70% Net Promoter Score² for innovation

Digital innovation

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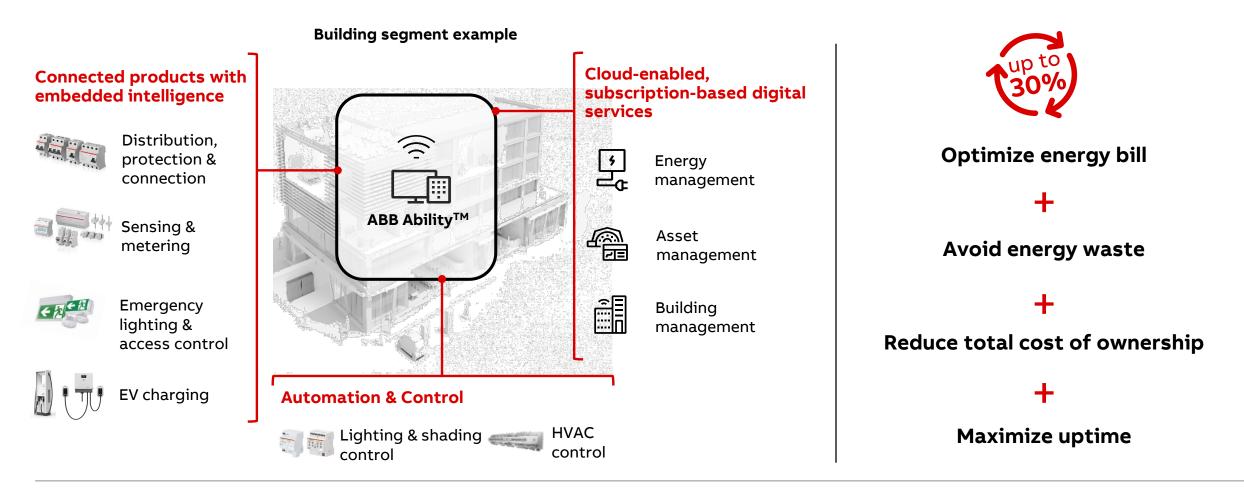
Creating customer impact and new revenue streams



Ease of doing business (including E-commerce) Scalable, segment-focused solutions Subscription-based SaaS Т **Global cloud platform Products with embedded** intelligence

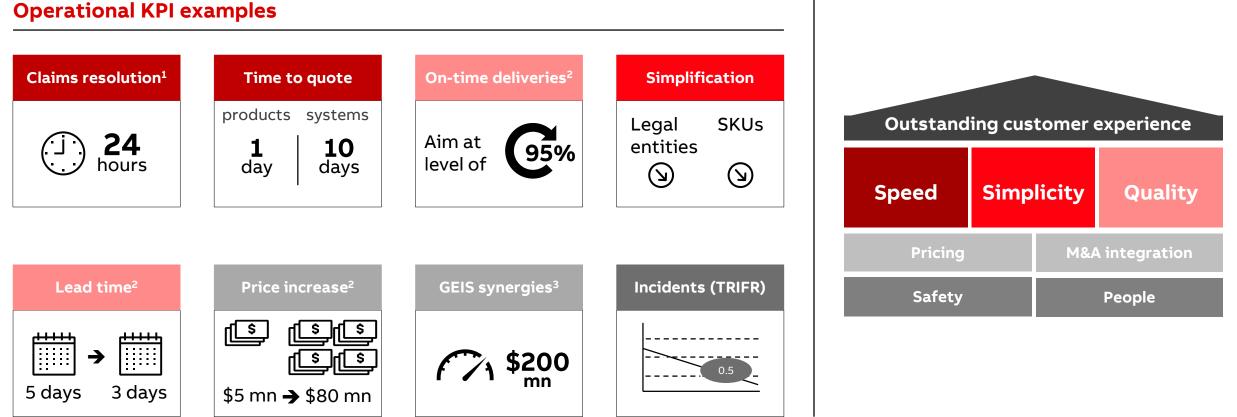
Digital innovation

Creating value for customers



Driving continuous improvement

Operational excellence framework to benchmark and drive success



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GEIS integration

On track

Strategic rationale

Market access

- North America
- Global installed base

Performance improvement

- ABB technology leadership
- ~\$200 mn cost synergies by 2022

Closing portfolio gaps

- Complementary NEMA, LV products

Strategic supply partnership

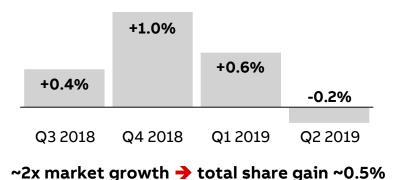
Integration status Organization 13k employees transitioned into ABB Footprint and product rationalization 13 facilities announced for closure Product substitutions ahead of plan Investing for growth Expanding 4 facilities in North America On track with ~\$480 mn¹ investment

'Best of Both' = success

Cross-selling

>\$70 mn cross-sales YTD 2019

Market share growth²



1/3 complete

Installation Products turnaround

In progress

Restoring the basics 2019

Addressing issues

- Price / commodities mismatch
- Unfavorable mix
- Cost to serve

Actions taken

- New leadership, simpler structure:+\$21 mn cost saving
- Net pricing +\$13 mn 2019 benefit
- Portfolio review

2020-21 actions

Optimize sales and channel structures to most profitable products

Strengthen pricing

Reduce cost to serve

Optimize manufacturing footprint

Talent upgrade

Future direction

Shift product mix

 Invest, expand specialty 'Power Brands' globally

Harnessflex (Adaptaflex) Ty-Rap PMA furse

- Scale up differentiated products

Selective market approach

- Broad portfolio in North America
- Tailored offer globally
- Transition out of non-core countries

Re-establishing profitable growth in attractive segments

ABB Electrification

Understanding ABB Electrification

Driving growth

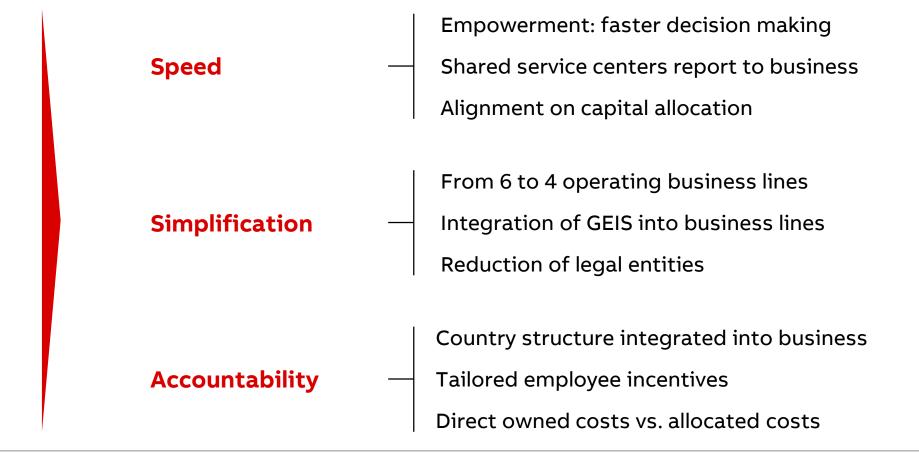
Differentiating in our markets

Creating value

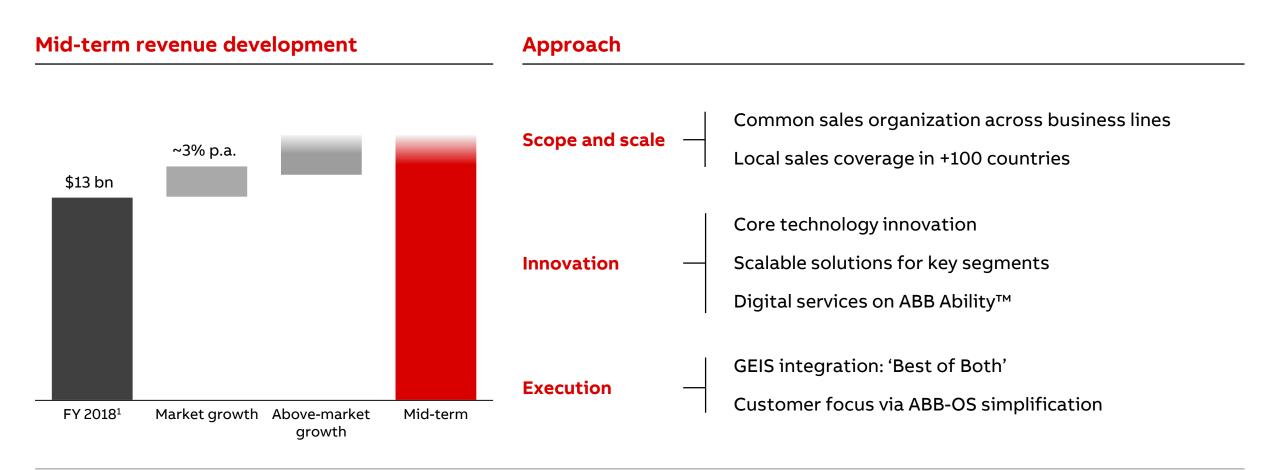
Q&A

ABB Operating System (ABB-OS)

ABB Operating System



Driving above-market growth

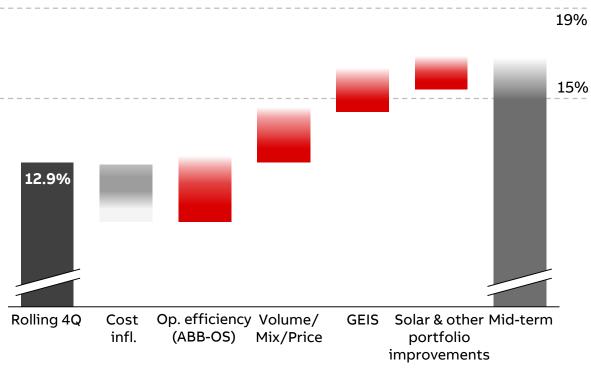


Reaching margin corridor during 2020

Momentum since GEIS acquisition

13.5% 13.5% 13.5% 12.4% 12.4% 11.7% 12.3 4 5

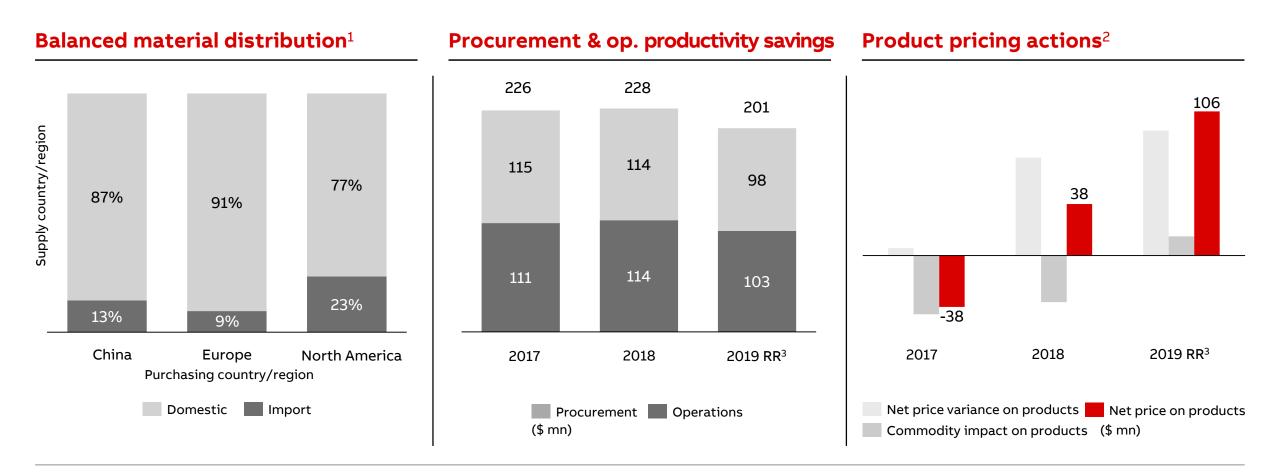
Mid-term outlook





Optimizing gross margin

Cost management and pricing strategy



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¹Geographic distribution of tier 1 suppliers to North America, China and Europe as at end H1 2019. Includes raw and direct material purchases for consolidated Electrification; ²Excludes Distribution Solutions and Solar inverter business lines; ³2019 run-rate as at end Q3 2019



Managing growth investment

~3% Core technology Investments in sales training and pricing tools of revenues ABB Ability[™] 1,645 1,640 1,622 319 Salesforce.com across 316 307 business Digital investment 5 year CAGR +20% **GEIS** integration to drive reinvestment from G&A ~\$400 mn p.a. including to Sales in 2020 GEIS and corporate share 2019 RR² 2019 RR² 2017 2018 2017 2018 Sales G&A

SG&A investment (\$ mn)³

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R&D investment (\$ mn)¹

Note: calculations excluding GEIS unless otherwise stated

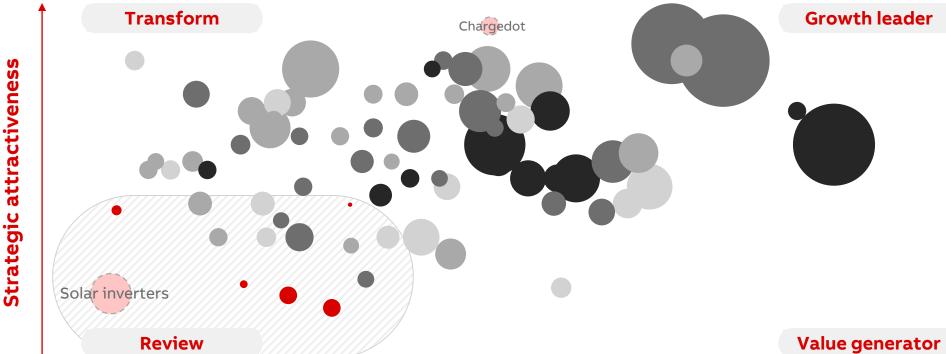
Slide 30 ¹Non-order related R&D investment, including investments in GEIS-related product conversion; ²2019 run-rate as at end Q3 2019; ³Sales and G&A expenses, excluding primarily GEIS, restructuring, bad debts and FX impacts





Under review

Enhancing our portfolio



Performance

Continuing systematic portfolio management down to a product line level





Electrification CFO priorities

Attractive growth

Disciplined execution

Above market growth Continuously reinvesting in R&D, digital and sales

Delivering ~\$200 mn GEIS cost synergies Pricing, operational efficiency, cash generation

Continuous portfolio management Solar inverter exit agreed Other portfolio actions ongoing

Reaching operational EBITA margin corridor of 15-19% during 2020

Safe, smart, and sustainable electrification

Driving growth

- Aligned to key mega-trends
- Well positioned in high-growth segments

Differentiating in our markets

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- Market leading core technology and innovation
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Creating value through operational excellence

- Continuous improvement
- GEIS integration, Installation Products turnaround

