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ABB Electrification Media Day

Tarak Mehta, Christian Nilsson

President, Electrification/CFO, Electrification



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," "plans," "outlook", "on track", "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.

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 FrisioManaging Director,
Smart Power



Oliver Iltisberger Managing Director, Smart Buildings



Matthias Heilmann Managing Director, Installation Products

Global markets



Mike Mustapha Head of Global Markets

U.S.



Maryrose Sylvester U.S. Head of Electrification

Functions



Christian NilssonChief 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 bn¹	\$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



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
- 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

Utilities

Renewables Distribution

Industry

Oil, gas & chemicals Food & Beverage Machine builders

Transport & infra

Buildings E-mobility Data centers





Electrification business lines

Aligned to customer needs

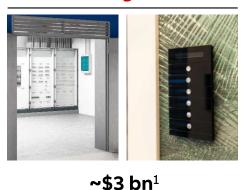
Distribution Solutions



Smart Power



Smart Buildings



Installation Products



~\$5 bn1

#1 Medium voltage

protection products, systems & switchgear, automation & services

Medium and low voltage control &

~\$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

~\$2 bn1

#2 Installation products

Wire & cable management, termination, fittings & other accessories

GEIS integration



November 2019

Slide 9

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



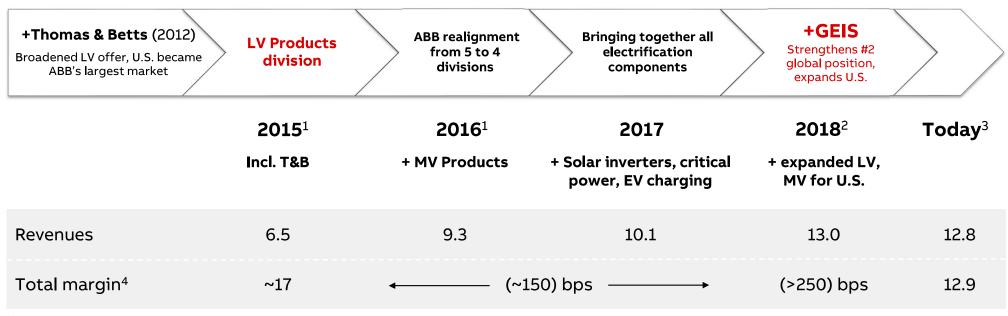
How we run our business lines

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



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



Electrification operational EBITA margin

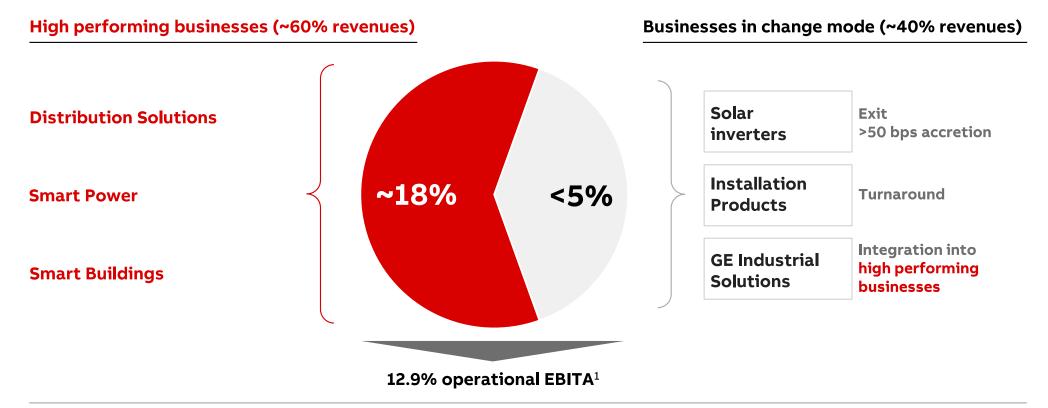




ABB Electrification

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

Data and digitalization¹



7.5x

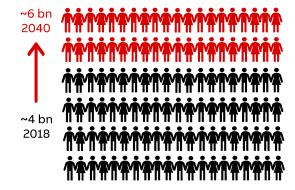
Increase in data processed outside of originating core

Slide 14

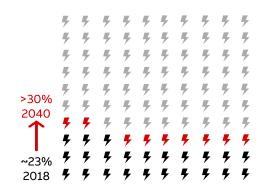
Urbanization²



people living in cities



Shift to electricity³



+35%

Share of electricity in the energy consumption mix

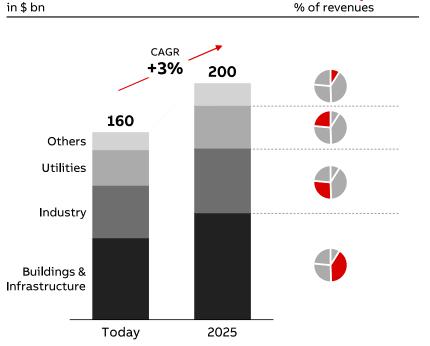
Well positioned in high-growth segments

Global addressable market

Business exposure % of revenues

Market growth drivers

High-growth segments¹

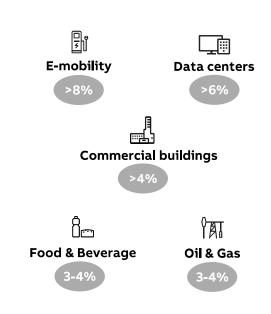


Electricity grows 2x faster than other energy sources

New sources of consumption

Rising importance of distributed generation

Expansion of E-commerce and digitalization



Distinct channels and solutions

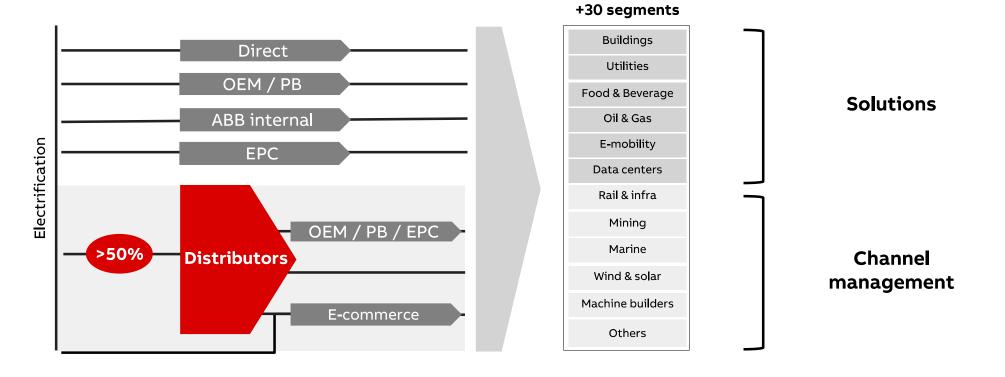




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Understanding ABB Electrification

Driving growth

Differentiating in our markets

Scope and scale Innovation Execution

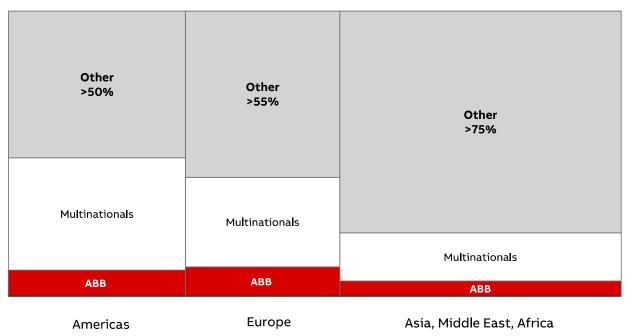
Creating value

Q&A

Scope and scale advantage

Local access combined with large scale advantage

Global electrification market structure¹



+
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

Solid state breaker concept





Market-defining products



Innovation ecosystem: >2,700 technologists in 48 centers



R&D investment: >\$300 mn p.a.¹

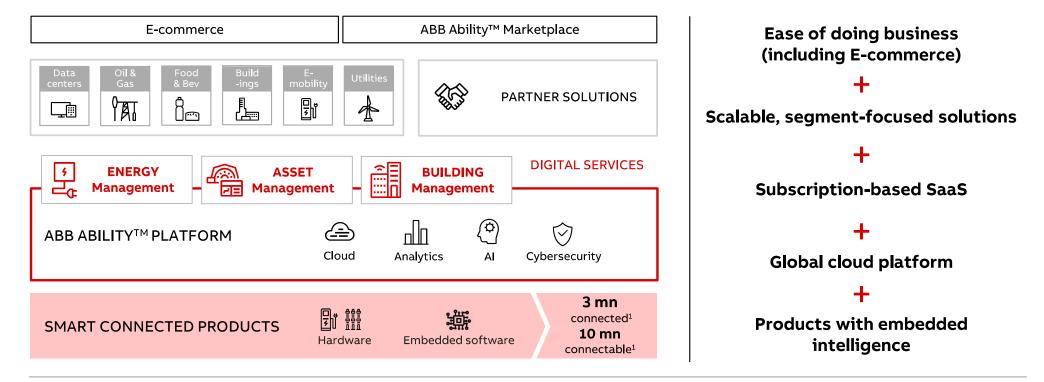


70% Net Promoter Score² for innovation



Digital innovation

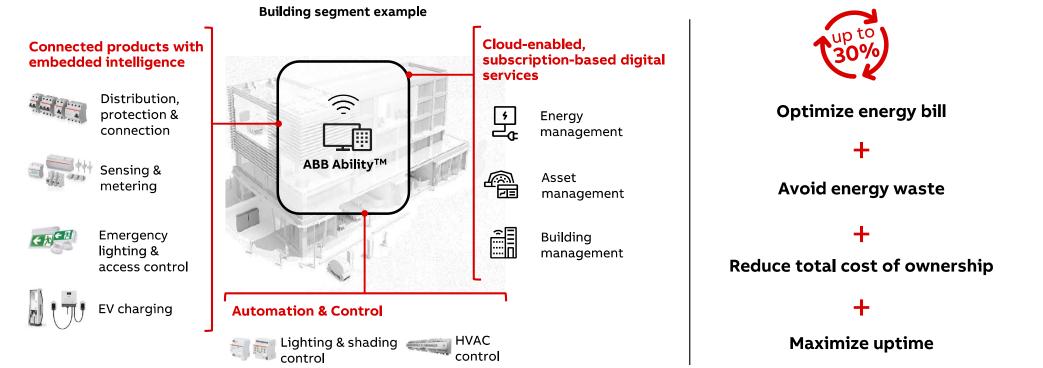
Creating customer impact and new revenue streams





Digital innovation

Creating value for customers





Driving continuous improvement

Operational excellence framework to benchmark and drive success

Operational KPI examples

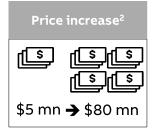


















GEIS integration

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

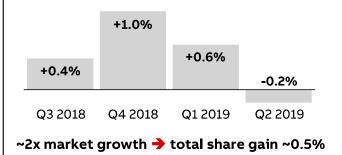
- Expanding 4 facilities in North America
- On track with ~\$480 mn¹ investment

'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











- 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

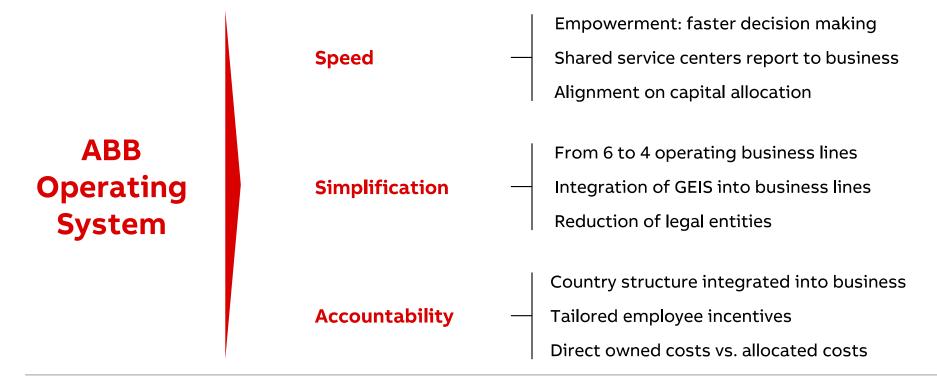
Driving growth

Differentiating in our markets

Creating value

Q&A

ABB Operating System (ABB-OS)

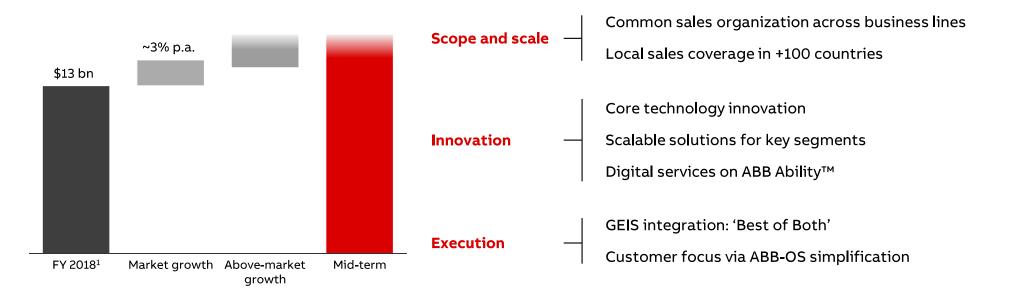




Driving above-market growth

Mid-term revenue development

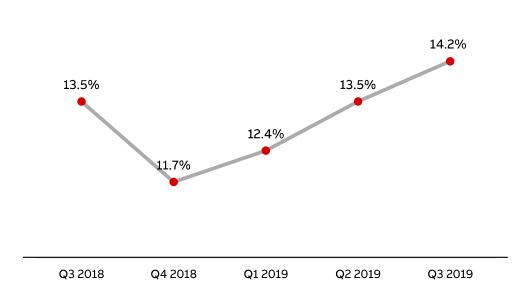
Approach



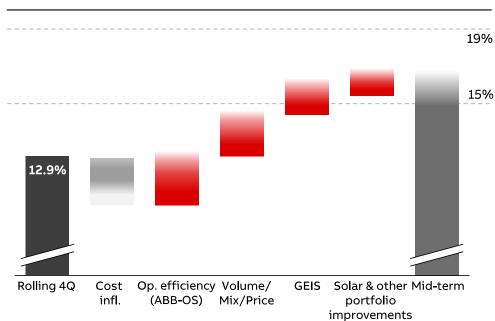


Reaching margin corridor during 2020

Momentum since GEIS acquisition



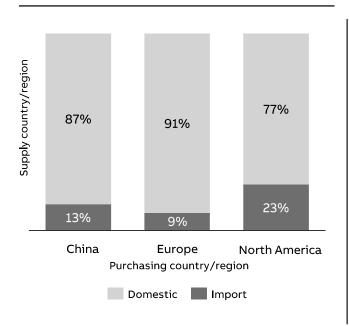
Mid-term outlook



Optimizing gross margin

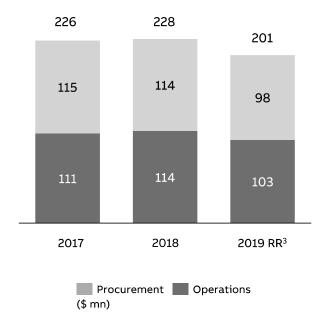
Cost management and pricing strategy

Balanced material distribution¹

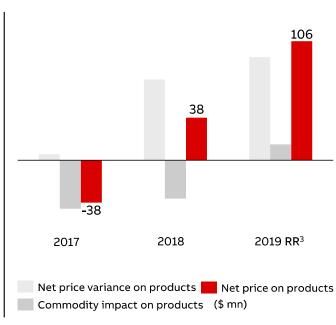


Slide 29

Procurement & op. productivity savings



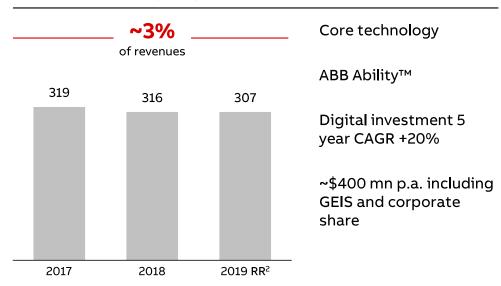
Product pricing actions²



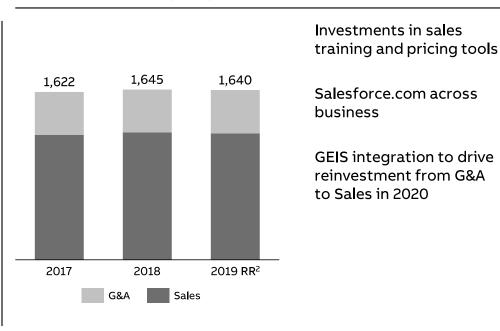


Managing growth investment

R&D investment (\$ mn)¹



SG&A investment (\$ mn)³





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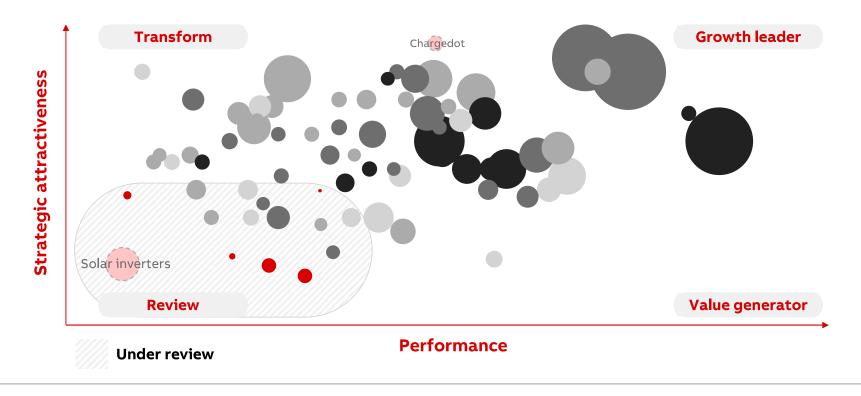
Note: calculations excluding GEIS unless otherwise stated ¹Non-order related R&D investment, including investments in GEIS-related product conversion; ²2019 run-rate as at end Q3 2019; ³Sales and G&A expenses, excluding primarily GEIS, restructuring, bad debts and FX impacts



Enhancing our portfolio

Continuing systematic portfolio management down to a product line level

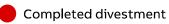
Illustrative



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Slide 31

Announced







Electrification CFO priorities

Attractive growth

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

Disciplined execution



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



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- 3 Creating value through operational excellence
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