



Process Automation Capital Markets Day



MAY 18, 2022

ABB Capital Markets Day
Process Automation
Helsinki, Finland

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- Costs associated with compliance activities
- Market acceptance of new products and services
- Changes in governmental regulations and currency exchange rates
- · General market conditions, and
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Welcome back to the ABB Marine House

Presenters



President,
Process Automation



Alanna Abrahamson CFO, Process Automation



Brandon SpencerDivision President,
Energy Industries



Joachim BraunDivision President,
Process Industries



Juha KoskelaDivision President,
Marine & Ports



Jacques Mulbert
Division President,
Measurement & Analytics



Bernhard Eschermann CTO, Head of Process Control Platform

Objectives for today

Explain Process Automation fundamentals

Show how we **create value** for our **customers and shareholders**

Share our **strategy** to drive the business towards **sustainable performance**



Agenda

8:00	Process Automation overview
8:45	Q&A
9:00	Sensing
9:25	Break
9:40	Anchor products & integrated systems
10:15	Q&A
10:30	Immersion sessions
12:30	Lunch
13:10	Automation
13:40	Digital
14:10	Wrap-up and Q&A
14:30	Departure to airport

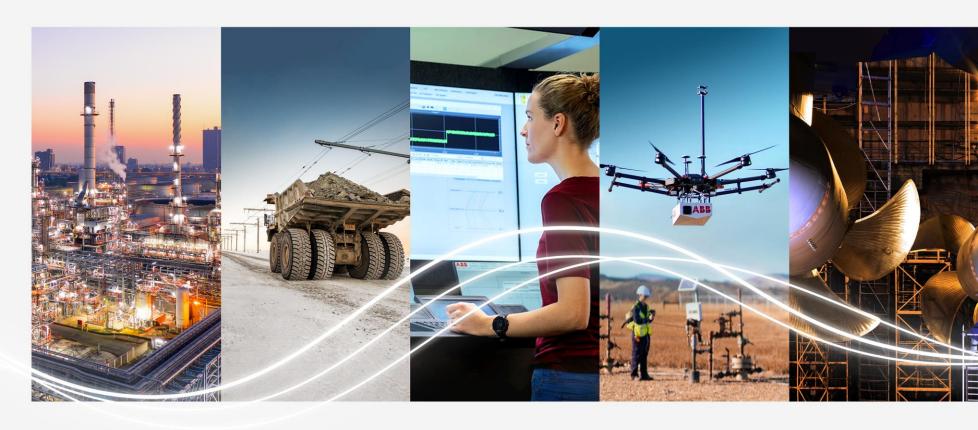


Illustrate how we drive towards sustainable performance





Process Automation overview



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Process Automation overview

What this session will be about

Our **future business**, post Accelleron exit

Our **strategy** in the context of secular shifts

Our path towards **sustainable performance**

Our customers, offering and differentiation



Peter TerwieschPresident, Process Automation

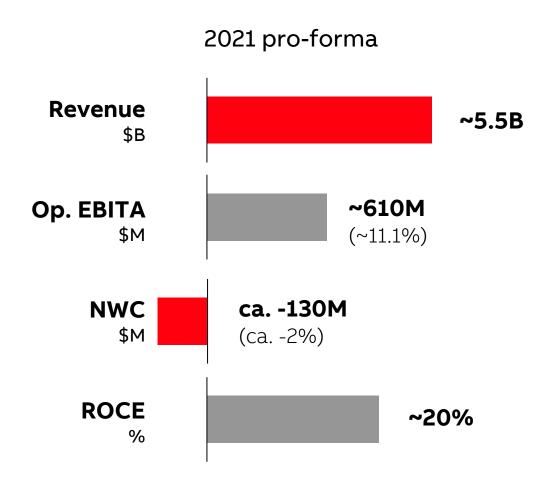


Alanna AbrahamsonCFO, Process Automation



Future Process Automation

At a glance





Process automation, DCS¹

Process analytics, various aspects of instrumentation

Marine electrical propulsion

Multiple industry-specific "anchor" products



~20K Employees

~45% Service

~70% Direct sales

¹ Distributed Control System Figures are in US dollars nominal, excluding Turbocharging Service, direct sales from management reporting

Future Process Automation

Fully accountable divisions

Energy Industries



Brandon Spencer

Process Industries



Braun



Juha

Future Process Automation

Marine & Ports





Measurement & Analytics





Turbocharging





Exit this year

Our organization balances industry-specific expertise and scale

Energy Industries



Oil & gas upstream

Oil & gas midstream and refining

Chemicals

Conventional power generation

Low-carbon energy & water

Process Industries



Mining, minerals & cement

Metals

Pulp & paper

Battery factories
Other hybrid industries

Marine & Ports



Passenger vessels

Special vessels

Icebreaking vessels
Navy

Ports

Measurement & Analytics



Instrumentation

Analytical

Process Control Platform, Digital Center of Excellence

What we offer to our customers

INTEGRATED SYSTEMS 4 DIGITAL **3** AUTOMATION **1** SENSING 2 ANCHOR ELECTRICAL **PRODUCTS** & MOTION

Service on our installed base is central to the business model





Our external environment

Three major secular shifts

Sustainability & energy transition



Automation & digital transformation



Globalization changes



Strategic priorities



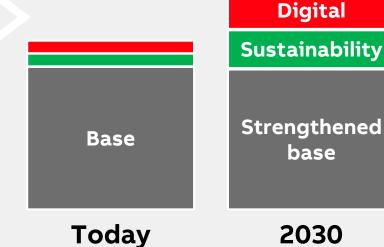
- Digital growth & productization
- Energy transition & sustainability

Performance improvement

Higher margin

Superior ROCE

Structural growth



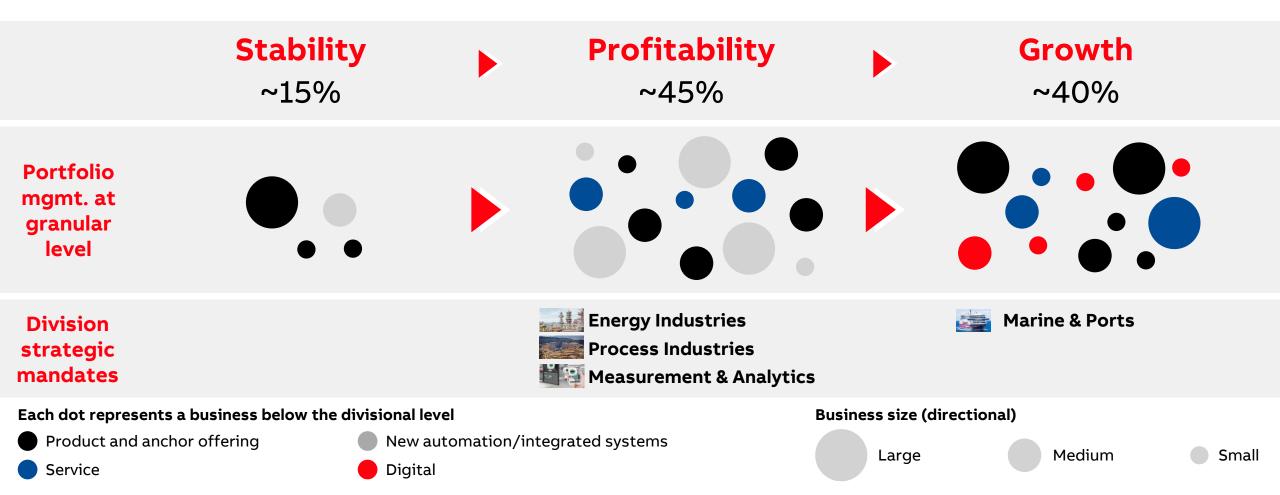
Business volume

Slide 14 | ABB Process Automation CMD 2022

Performance improvement

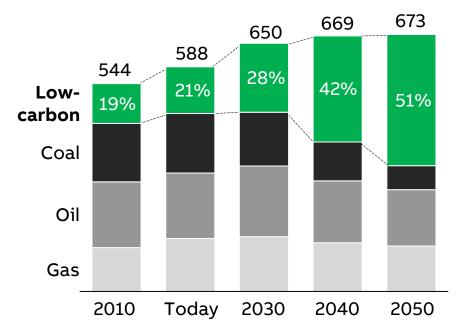
Driving actions at granular level





Energy transition & sustainability

The challenge: shift ~30% of energy to low-carbon sources until 2050, meeting increasing demand



Global energy supply, Exajoules
IEA Announced Pledges Scenario (middle-of-road scenario, 2.1° warming¹)





Investment cycle

Sustainable industrial asset base



Electrification

Renewables for hard-to-abate industries



Premium on efficiency

Automation, digital

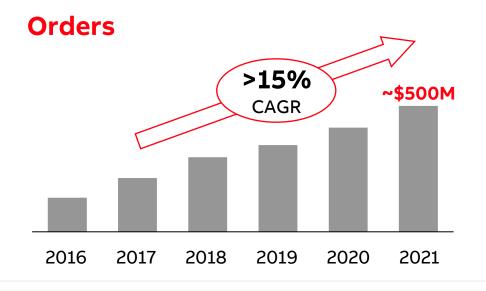
Net positive impact on Process Automation

Digital: double-digit growth

Organic strategy



Industrial software & digital services



Six customer value pillars



Operational Excellence



Sustainability



Process Performance Management



Asset Performance Management



Extended Automation SW updates



Cyber Security

Note: figures from management reporting



Priorities



Continued double-digit growth



Increase productization



More SaaS/ recurring



Capabilities and culture

Process Automation at the heart of ABB's purpose

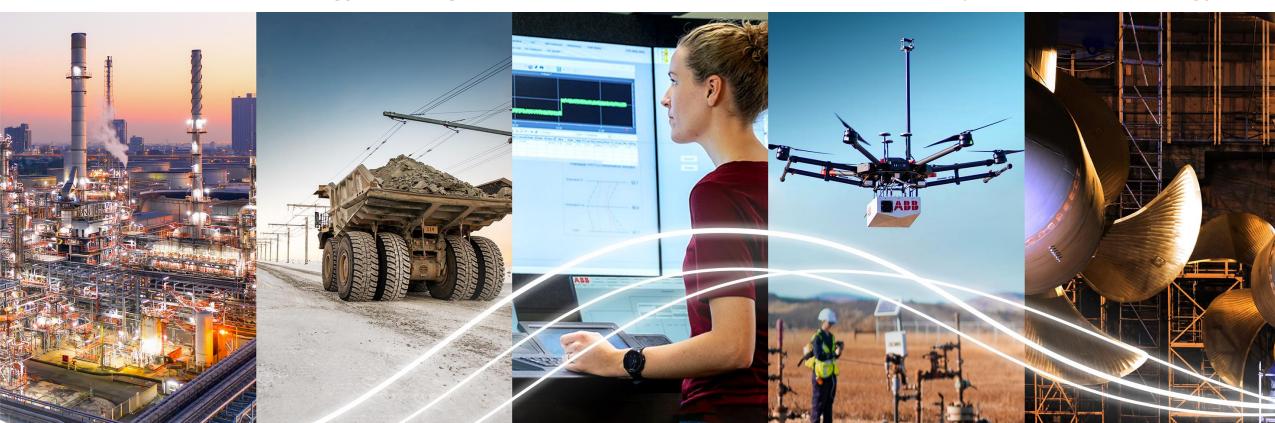
Creating success

Addressing world's energy challenges

Transforming industries

Embedding sustainability

Leading with technology





Well positioned for positive structural growth

Positive underlying industry growth

To 2024 To **2030** Low-carbon energy & water Coal Oil Hydrocarbon Gas Marine & ports Mining & metals Pulp & paper Chemical

Accelerators

More automation and sensing

Industrial software and digital services

Sustainability-driven investment cycle

Installed base effect

Recurring service revenue stream

Decades-long asset lifetime

Lower volatility





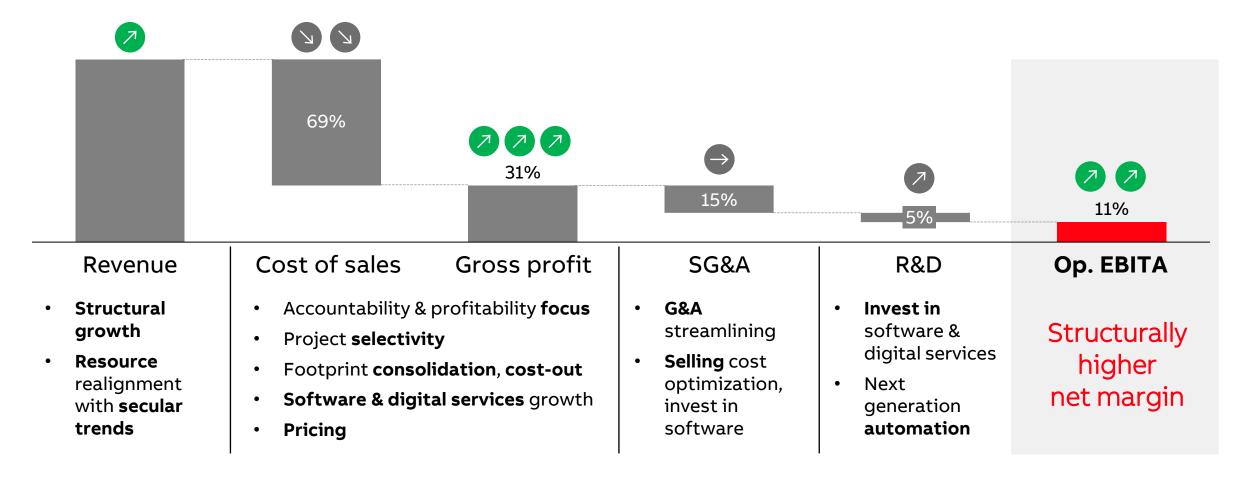




Process Automation exposure

Driving towards sustainable performance

Process Automation, 2021 as % of revenue



Process Automation performance improvement journey

Completed



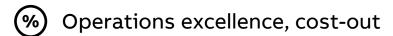
ABB Way

- Legacy projects, esp. Kusile
- Automation reorganization
- Zero Net Working Capital

Implementing



Granular portfolio management





Digital productization & growth

Ramping up



Pricing





Bolt-on M&A

Strong project capabilities critical to our business model



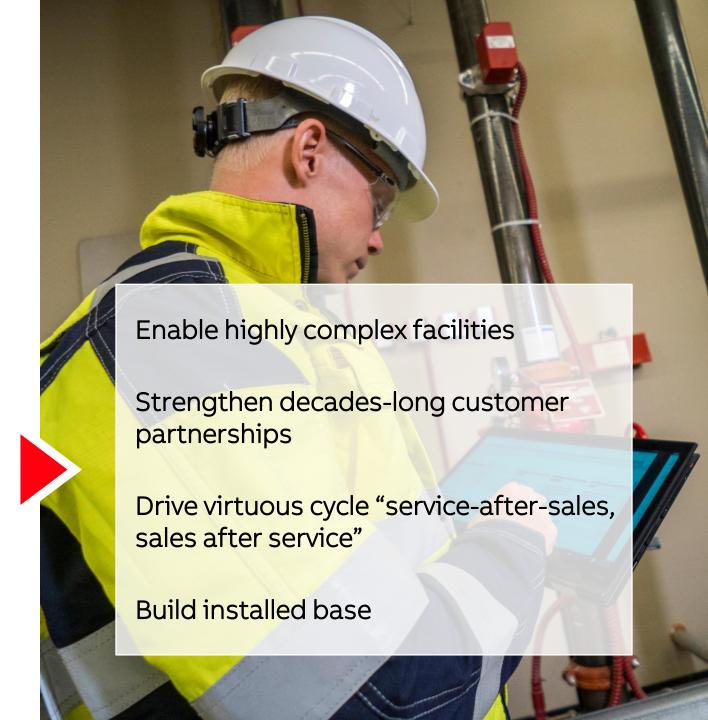
>7,000 engineering and project execution staff



5,000 active projects, of which **1,600** over \$1M

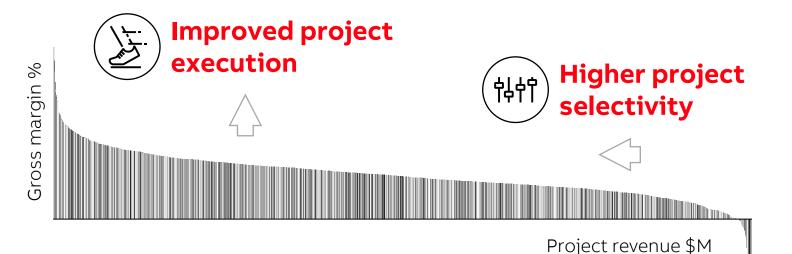


>100,000 person-hours invested into project opportunity & risk reviews per year



Improved business performance through project execution

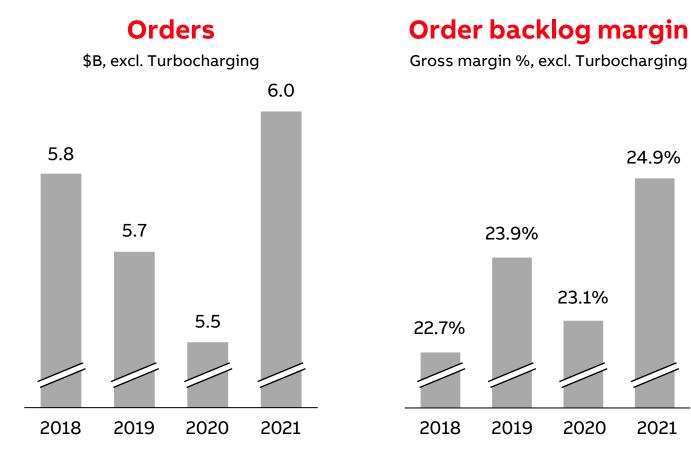
PA active projects by gross margin





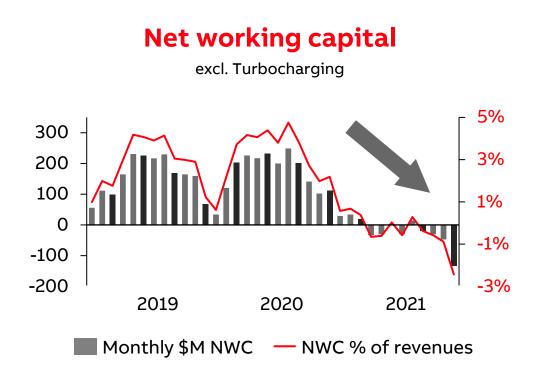
Note: Project scope simplified but representative.
Projects sorted along "as-delivered" margin

Order backlog gross margin improved +200bps



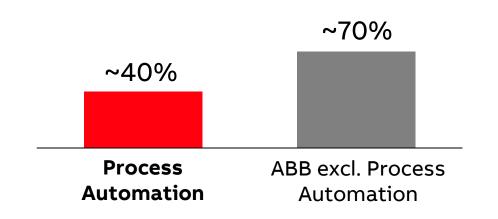


Asset-light business model – zero NWC



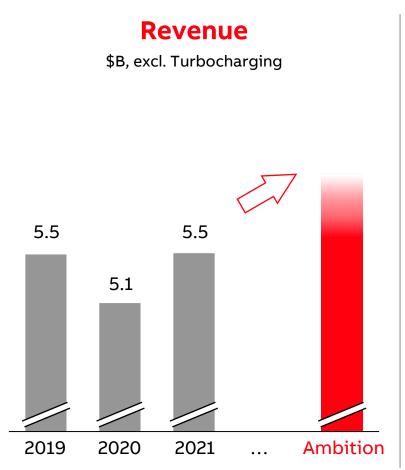
Fixed asset intensity

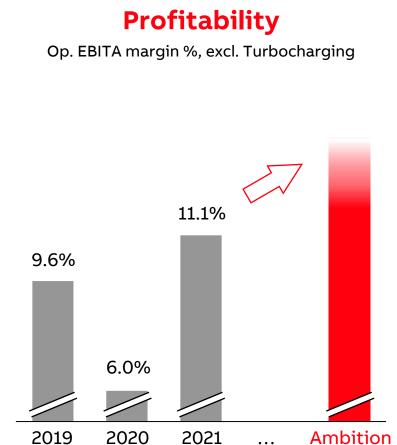
PA excl. Turbocharging; fixed assets (incl. goodwill)/ revenue

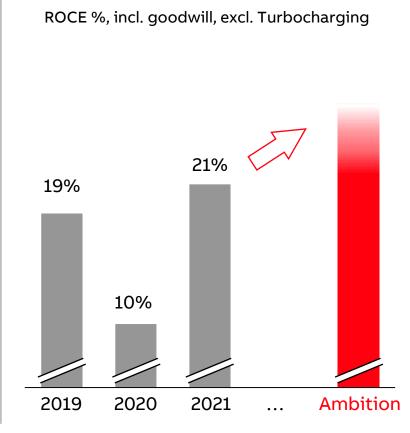


Margin improvement before growth, superior ROCE

Driving towards sustainable performance







ROCE



Our customers and their needs

Run some of the most complex operations on the planet



Mining & Metals



Pulp & Paper



Oil & Gas



Chemicals



Food & Beverage



Power Generation



Marine



Solids e.g., ore, paper, cement



Liquids e.g., water, milk, oil, chemicals



Gases e.g., methane, steam, air

Customer needs



Safety



Reliability



Most competitive facilities



Protection of past investment while accessing new technology



Sustainability

Our offering and go-to-market

INTEGRATED SYSTEMS

4 DIGITAL

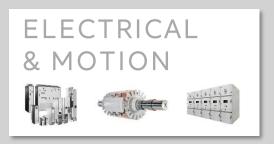


3 AUTOMATION

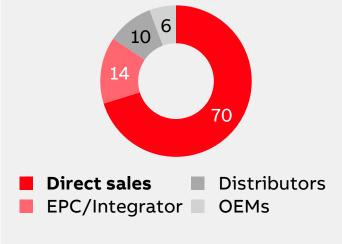




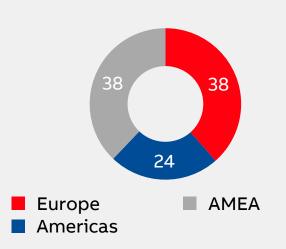


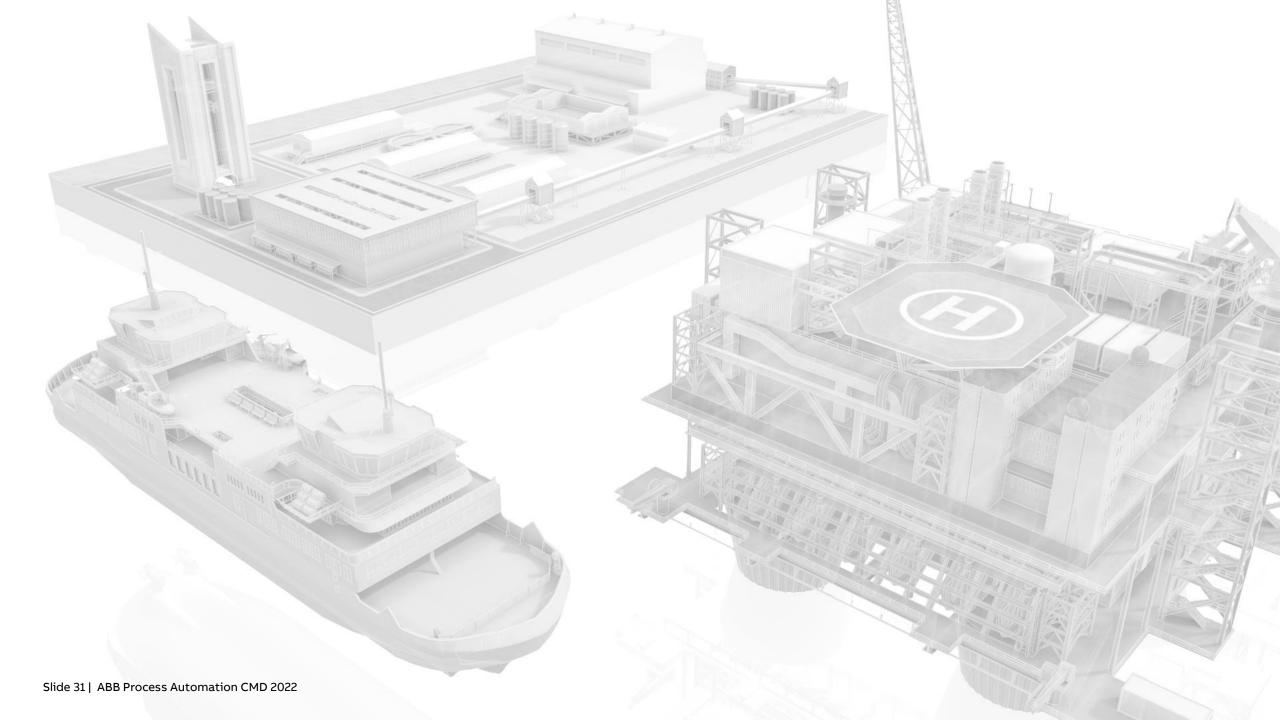


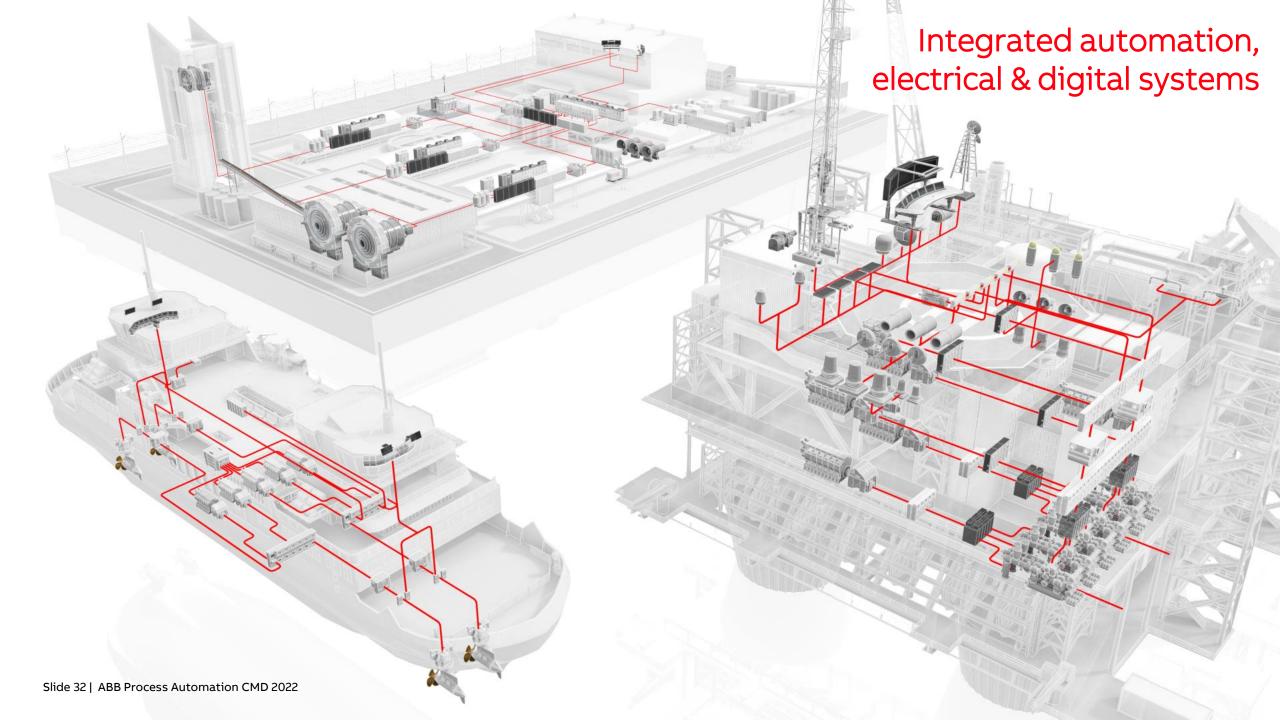
Direct sales approach and customer contact

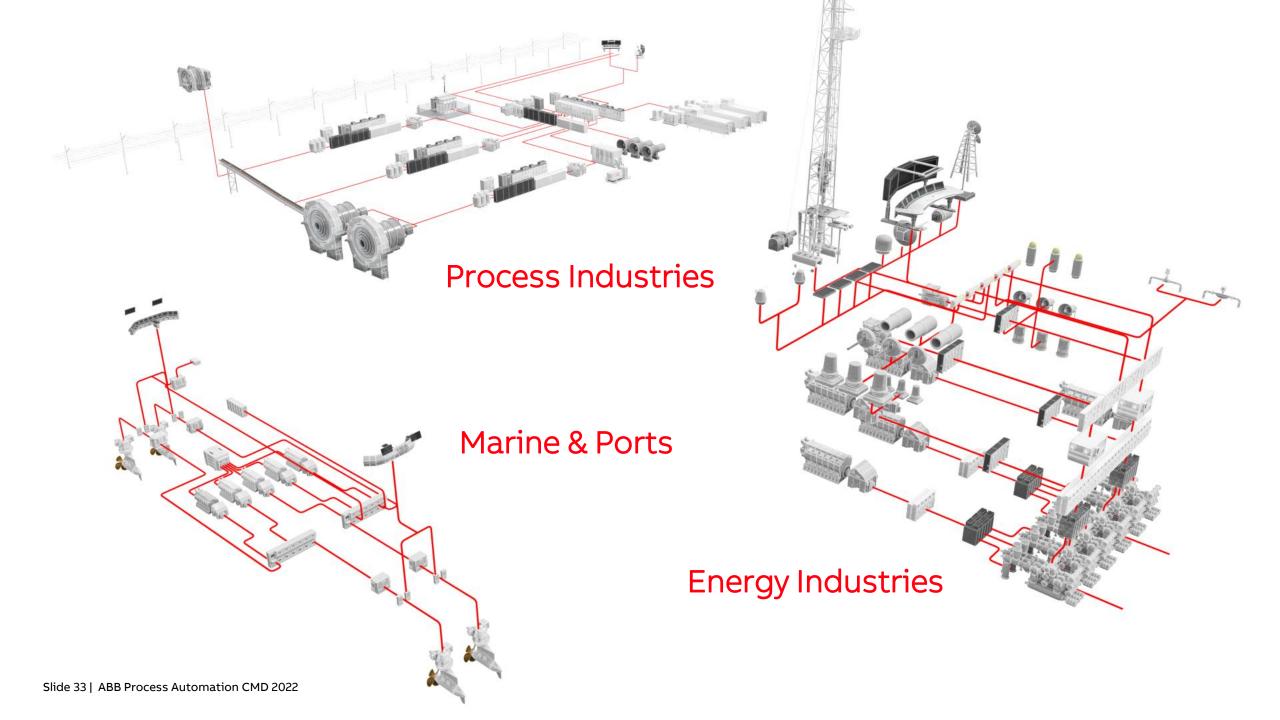


Global footprint

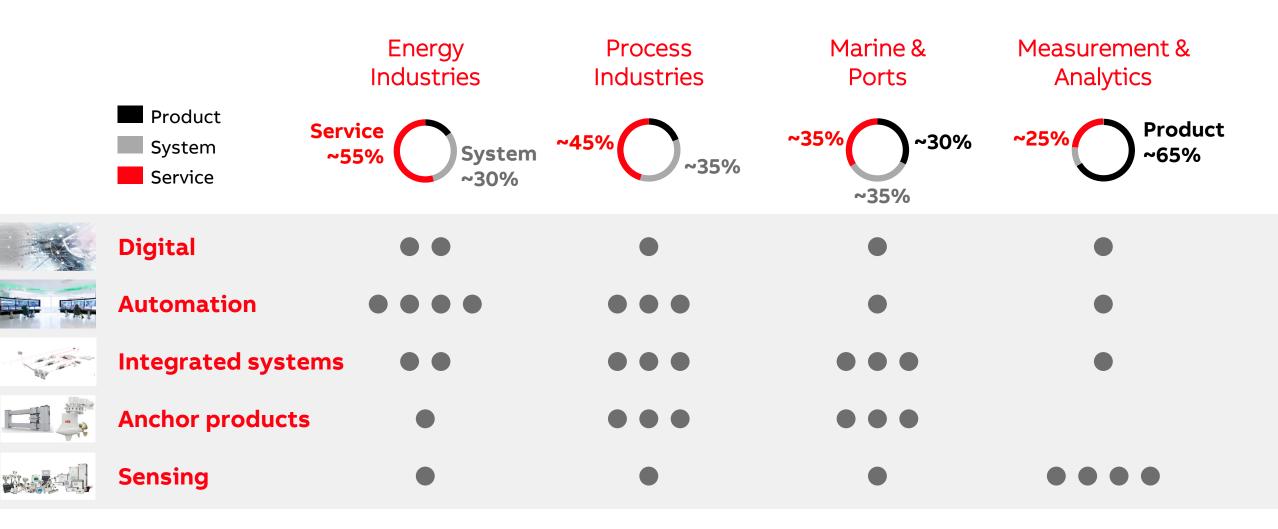




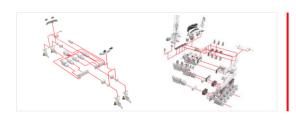




Business archetypes and offering by division



How we differentiate



Seamlessly **integrated** automation, electrical and digital **systems**



#1-2 for process-critical anchor products



#1 DCS position and broadest installed base



Technology leadership in **Sensing**



OPEN PROCESS AUTOMATION™ FORUM

International Electrotechnical Commission

expertise, decades-long customer **partnerships**

In-depth **industry** sector

Open standards approach, customer optionality



Latest **technology** while **protecting** past **investment**



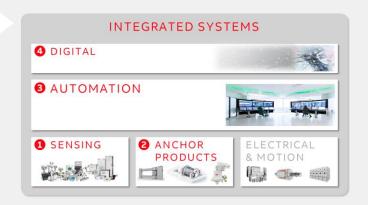
Strong system and project delivery capabilities

Driving towards sustainable performanceSummary

- Strong fundamentals
 Leading market positions, leveraging scale and installed base
- Strategy aligned to secular growth

 Capture growth from automation, digitalization and sustainability
- Systematically improving profitability Following a granular approach
- Superior ROCE
 Asset-light model, negative NWC

Granular perspective on Process Automation along offering across the day



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