Siemens – A focused technology company accelerating high value growth

Roland Busch, President and CEO Siemens AG



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Due to rounding, numbers presented throughout this and other documents may not add up precisely to the totals provided and percentages may not precisely reflect the absolute figures.



Why to invest in Siemens

We are a focused technology company, addressing highly attractive growth markets with our global footprint We can empower our customers to master their digital transformation and sustainability challenges with our technologies

We combine the real and the digital worlds like no other company can



We are pursuing a clear focus on value creation including profit, cash, stringent capital allocation and execution We have the right strategy, the right team, at the right time





Digital transformation is imperative for every industry

Industry

60%

Infrastructure

Mobility

of lifecycle costs

arise from operations. Digital technologies can unlock savings potential of up to 20%.

20%

potential increase

in transport capacity through digital signaling technology without building additional infrastructure.

Healthcare



of stroke-related costs could be reduced by AI and digitaltwin technologies.

Source: McKinsey, BCG, Siemens Healthineers

of manufacturing tasks

can be automated, improving

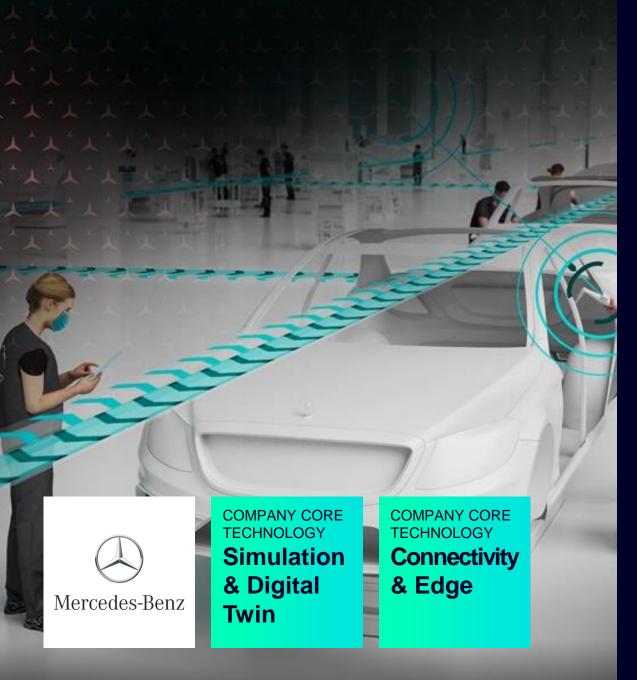
productivity, quality and safety.



Combining the real and digital worlds as foundation of our high-value growth strategy







MERCEDES-BENZ Transforming the automotive industry

Customer challenge

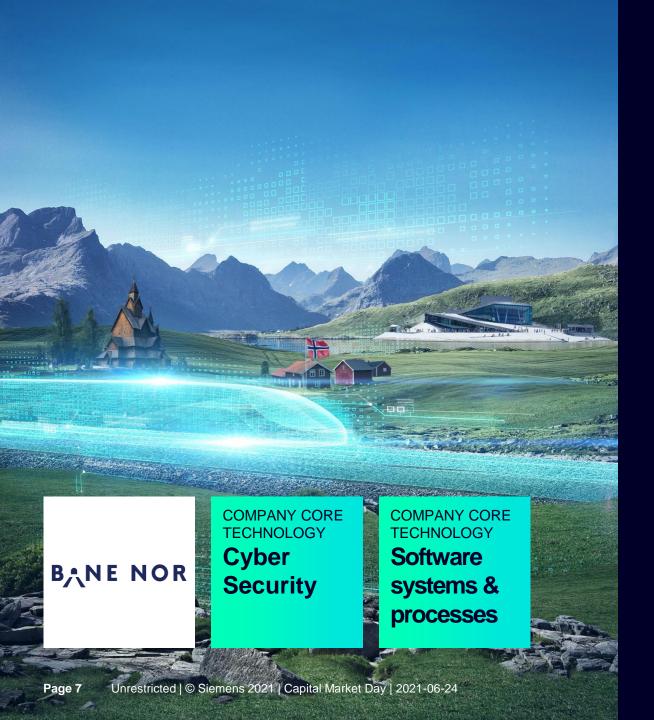
• Mercedes-Benz and Siemens to expand the digitalization of sustainable production methods

Solution

- Partnership with Siemens Digital Industries, Smart Infrastructure and Siemens Advanta to develop a digital factory campus:
 - Digital end-to-end technologies for flexible production
 - Resource-saving, CO₂-neutral factories
 - New working environments

Customer benefit

- Create innovative solutions for new Mercedes-Benz Digital Factory Campus in Berlin as a blueprint for ~30 factories worldwide
- Roll-out of new developments at all Mercedes-Benz plants



BANE NOR NORWAY Transforming transportation

Customer challenge

- Analogue system with more than 11,000 signals and more than 300 interlockings
- Increase in capacity throughout the network

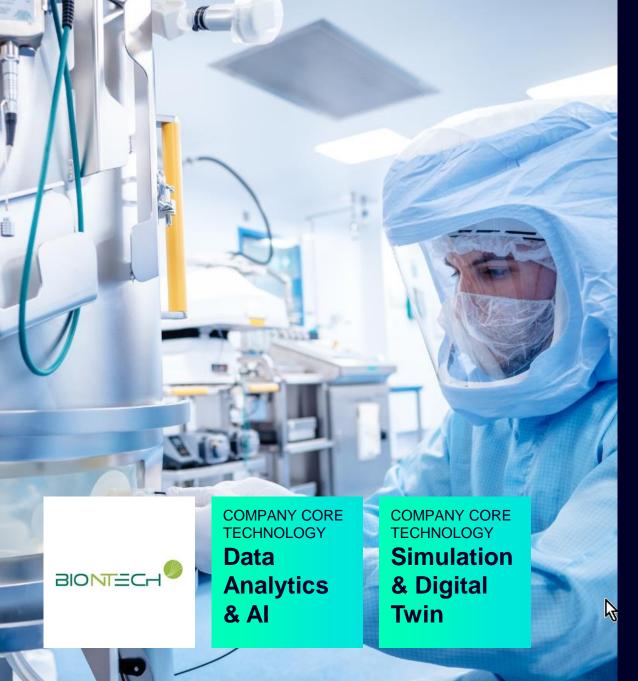
Solution

- Upgrade to the European Train Control System (ETCS)
- Replacement of the entire railway infrastructure in Norway with one digital system
- One digital interlocking and a country-wide data center ("one country, one interlocking")

Customer benefit

- Enhanced safety, punctuality and capacity
- Reduction in trackside delays by 50%
- Reduction of maintenance by 30%





BIONTECH Transforming the pharma industry

Customer challenge

• Rapid production of Covid-19 vaccine in large quantities

Solution

- Conversion of an existing plant with digital and automation technologies
- Paperless documentation of development and production, immediately fulfilling all documentation requirements

Customer benefit

- Accelerated vaccine development and production within one year
- Conversion time for existing production facility cut from one year to five months



TRAKRAP **Doing more with less**

Customer challenge

• Provide eco-friendly packaging technology faster and cost efficiently

Solution

- Digital twin technology to develop a new form of plastic wrapping
- Innovative "pay-per-wrap" business model for end customers enabled via Siemens Financial Services

Customer benefit

- Reduces plastic use by 70% and energy consumption by 90%
- Driving environmentally sustainable technology

Addressing highly attractive growth markets with our global footprint Market growth 2020–2025



Note: Market growth of addressable markets: Smart Infrastructure, Digital Industries, Mobility and Siemens Healthineers

Siemens in US

Major trends

- Infrastructure upgrade
- Strengthen industrial supply chains
- Digitalization
- CO_2 neutral by 2050

Our footprint

- >60 manufacturing, R&D sites and digitalization hubs
- 40,000 employees

Our position

- #1 in Vertical Software
- #1 in Mobility
- #2 in Buildings
- #1 in Imaging¹

Note: As of FY 20 1 Based on equipment orders. Imaging contains: Computed Tomography, Magnetic Resonance, Molecular Imaging, X-ray products, Digital Health, Syngo software, excl. Ultrasound



Siemens in China

Major trends

- Five-year plan: High tech / digitalization urban infrastructure
- CO₂ neutral by 2060

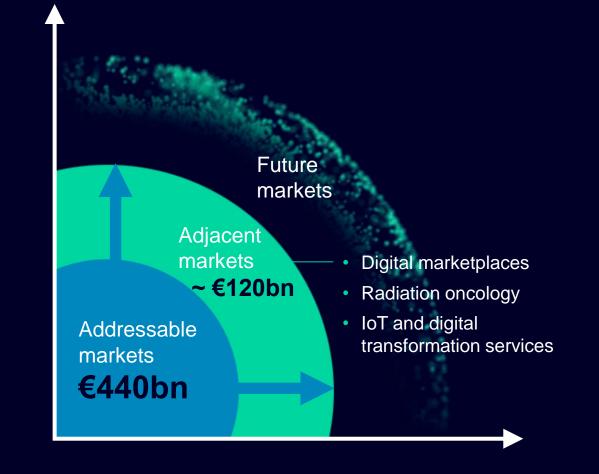
Our footprint

- >60 manufacturing, R&D sites and digitalization hubs
- 30,000 employees

Our position

- #1 in Automation
- #1 in Vertical Software
- #1 in Imaging¹

Our addressable markets are growing with 4–5% and offer attractive adjacent markets



Note: Schematic graphic; markets include Smart Infrastructure, Digital Industries, Mobility, Siemens Advanta and Siemens Healthineers





Our core business and our digital business reinforce each other in a virtuous cycle, accelerating high value growth

Core business

We grow our core business by leveraging our digital capabilities

Digital business

We grow our digital business by leveraging our core business and domain knowhow





RHEIN-RUHR-EXPRESS (RRX) Digital offering as a key differentiator

Customer challenge

 Maximum availability at minimum costs: Public transportation in Germany's crowded and congested Rhine-Ruhr region is often a logistical challenge

Solution

- Siemens helps to alleviate this issue with 82¹ double-decker trains and full maintenance in a fully digitalized depot over 32 years
- Featuring predictive diagnostics and a smart, digital network that links the trains to the digitalized rail service center – enabled by Railigent
- Leverage unique digital offering to unlock ~ \in 1.7bn order entry

Customer benefit

- Reduced total lifecycle cost
- 99.9% current availability of the train sets

1 later increased to 84



SWIRE COCA-COLA

Growing our core business through our digital expertise

Customer challenge

• Improve line performance and availability

Solution

- Tracking and analysis of downtimes
- Customized manufacturing information system and mobile app for asset overview, faster fault diagnosis and predictive maintenance

Customer benefit

- Unlock annual production capacity of 550 million cans
- Benchmark and standard for Swire Coca-Cola worldwide: to be extended to 100 production lines in next two years
- Starting point for building 18 digital plants in the future and saving 10 million kWh of electricity p.a.



DIGITAL TRANSFORMATION OF BUILDING OPERATIONS Growing our digital business through our core expertise

Customer challenge

Make buildings more efficient and sustainable. Reduce life cycle costs significantly

Solution

- Leverage digital monitoring of buildings to transform break / fix services and building management services into recurring digital services with margin upside potential
- Improvement of building experience and reliability for tenants and building operators
- >3,900 deployments of Navigator at customers; further direct potential >100,000 connected buildings

Customer benefit

- Reduction of lifecycle costs
- Energy savings



UNIVERSITY OF TAMPERE, FINLAND A digital approach to building maintenance

Customer challenge

• Offering the most attractive campuses possible to the University Properties of Finland Ltd. with its more than 11,000 students

Solution

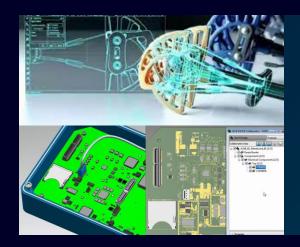
- Developing a new data-driven maintenance model
- Asset performance services, which allows the team to collect and evaluate real time maintenance, asset and performance data

Customer benefit

- 50% fewer user complaints
- 57% of identified issues improve energy efficiency
- 70% of visual inspections replaced by data analytics

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We have a leading position in vertical software



Digital Industries

For example: PLM, EDA

Transition of business model mainly for PLM towards cloudenabled Software as a Service (SaaS), beginning FY 2022





Smart Infrastructure

For example: Grid software, Navigator Building and grid management



Mobility

For example: HAFAS trip planner Innovative software for transportation

1 Selection 2 Cooperation 3 Not yet closed



We are leveraging our domain know how and digital strengths to develop new business models



Performance as a service Energy saving guarantees in buildings



Simplifying energy transformation

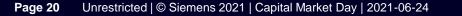
Energy as a service Renewable energy solutions



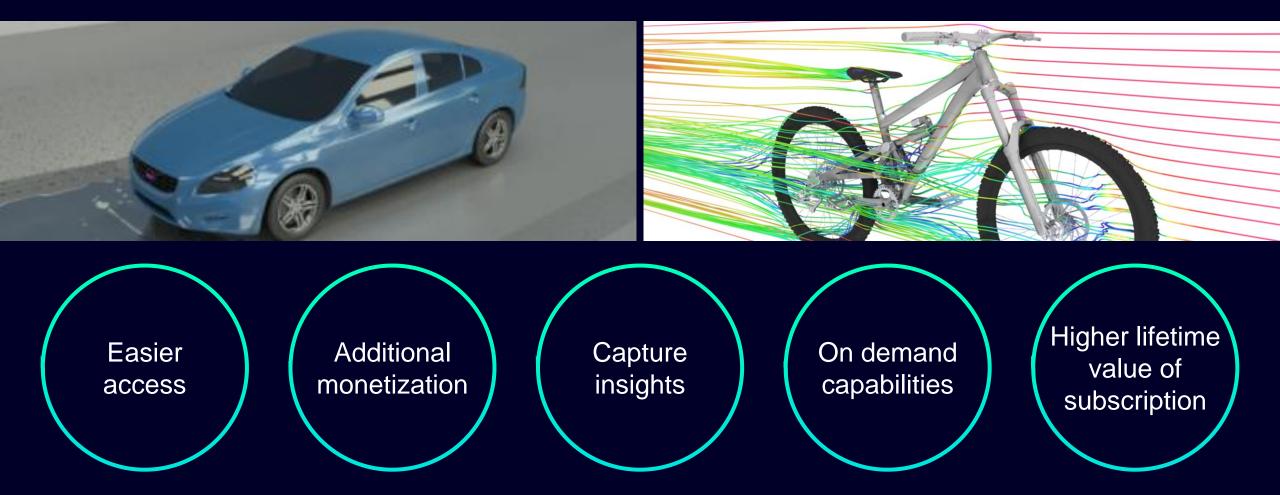
Machine hours as a service Enabling customers



Platform as a service Teamplay platform to deploy digital solutions



Transition to SaaS will drive resilient, predictable growth for Siemens while keeping our Digital Industries and Siemens AG financial target commitments

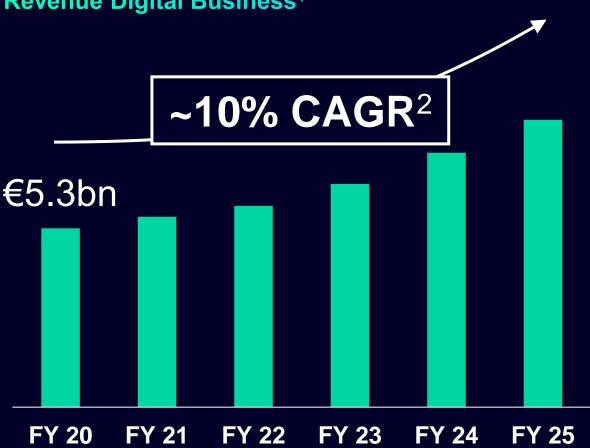




Revenue Digital Business¹

Siemens Digital Business expected to grow significantly

Growth to ramp up slowly due to SaaS transition revenue conversion and expected to accelerate after FY 23



1 "Digital Business" means Siemens vertical specific software and IoT services from Smart Infrastructure, Digital Industries, Mobility, Siemens Advanta; does not yet include Supplyframe 2 Organically



We are uniquely positioned to combine the real and digital worlds



in Factory Automation 45 million installed automation systems



in Vertical Software 200,000 developers on Mendix platform



in Rail Automation 14,000 railway vehicles and 3,000 interlockings



in Grid Automation >2.5 million protection relays and >200k substation automation systems

+

>40k

Employees in digital jobs therein >12,000 industrial SW engineers and >1,000 Cyber Security experts



Al experts 100 Petabyte collected and processed data

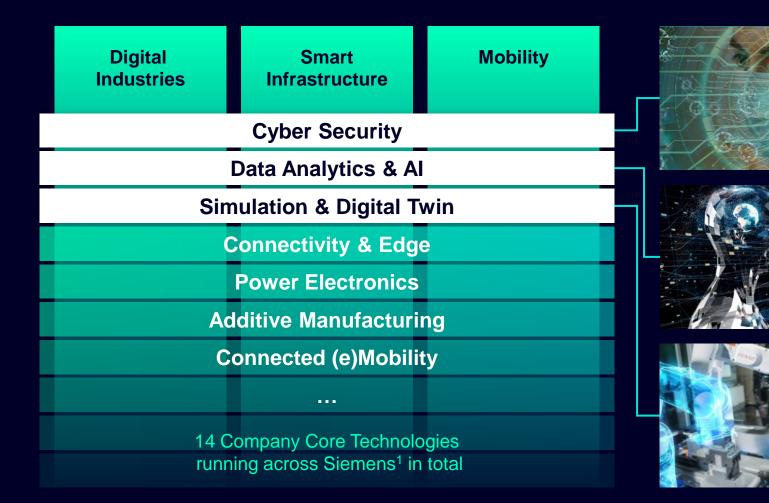
Domain knowhow

Technology portfolio

Strong ecosystem



Company Core Technologies leveraged across all businesses



Product PKI

Centrally hosted industrial PKI services to ease imprinting of manufacturer certificates during production und management of operational certificates (250,000 devices)

Machine Intelligence Core (MI Core)

MI Core engine provides generic code (e.g. industrial AI algorithms, pre-trained models, knowledge graphs) with use case specific extensions (60 use cases)

Executable Digital Twin

A self-contained, application specific executable model to enhance value of an asset during its life-time by using "virtual sensors"

1 Siemens Healthineers: R&D Framework Agreement in place plus option to license; Siemens Energy: R&D Framework Agreement plus Cost Pool Agreement in place



Company Core Technologies innovation examples

Industrial 5G

 Siemens is driving 5G in industry

- First 5G product: Router launched
- Private 5G standalone networks in trial
- Prerequisite for IoT



- Market-leading solutions for industrial edge
- Extending the industrial edge computing paradigm to the field level



Hydrogen trains

- First H₂ prototype train Mireo Plus H
- Up to 1,000 km range and unique certification of H₂ tanks for 30 years operation



Connected (e) Mobility

- Providing portfolio for AC/DC and efficient high-power charging
- Developing charging service ecosystem, e.g. station, depot, fleet management

Siemens is best positioned for the future

Stringent capital allocation in future growth fields¹

RESEARCH AND DEVELOPMENT€4.6bn R&D expenditures40,700 R&D employees

STRONG IN DIGITALIZATION

~50% of total R&D spending allocated to SW & IoT

INGENUITY DRIVES INNOVATION

5,120 Inventions2,740 Patent applications

1 In FY 20 (without Siemens Energy)

Next 47 powered Next 47 by Siemens

- Valuable contributor to our innovation ecosystem
- Enabler of "intrapreneurialism" within Siemens (90 accelerator teams since October 2018)
- Invested in 30+ start-ups that use deep and frontier technologies

Strong ecosystem

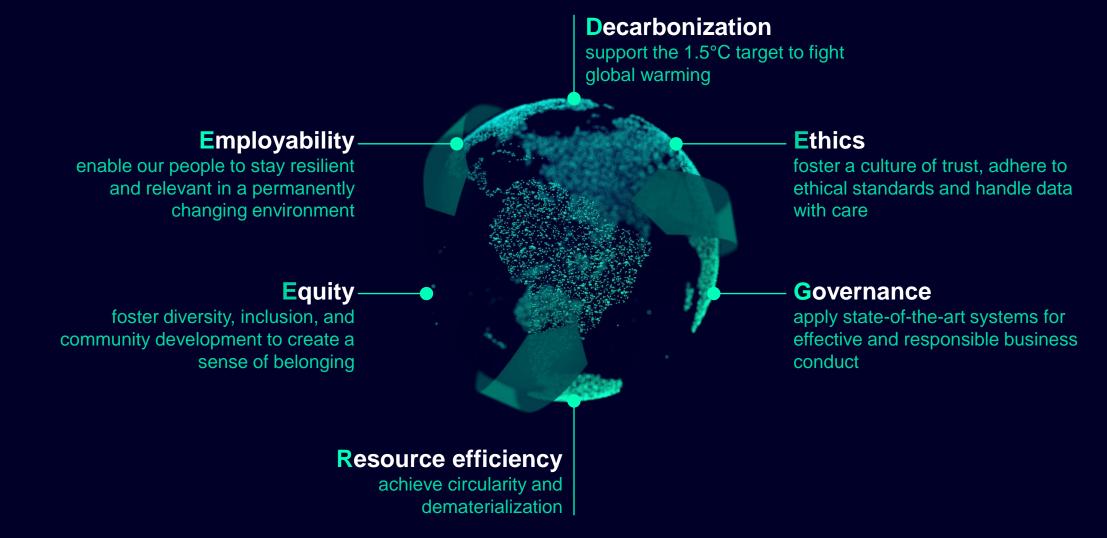
APPLICATION DEVELOPERS & INTEGRATORS **200,000** developers on Mendix platform



TECHNOLOGY & INFRASTRUCTURE PARTNERS



Our DEGREE framework sets clear priorities for Sustainability at Siemens





Accelerating value creation



- 5–7% comparable revenue growth
- Upgraded Smart Infrastructure
 and Mobility margin targets
- High single-digit EPS pre PPA growth



- Cash Conversion Rate (all in)
- Progressive dividend
- Long-term share buyback program



- More recurring revenue
- Full potential of Portfolio Companies
- Clear commitments below the line

Note: Scope Siemens AG



Our four strategic priorities

Customer impact

We anticipate what our customers need before they even know they need it

Technology with purpose

Innovative technology has been at the core of Siemens for more than 170 years and it will remain at the core of the future we're building



Empowered people

Driving progress through empowering our customers, partners and employees

Growth mindset

Rather than make yesterday last, we are committed to building tomorrow – by learning and being open to change





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