

SANDVIK MANUFACTURING & MACHINING SOLUTIONS SANDVIK CAPITAL MARKETS DAY 2022

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SANDVIK MANUFACTURING & MACHINING SOLUTIONS

REVENUES SEK

36.7_{bn} SEK

ADJ. EBITA MARGIN

23.1%

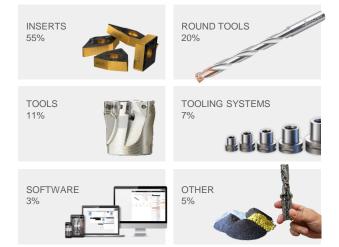
EMPLOYEES

~20,000

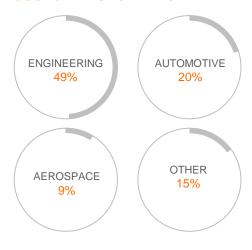
DIVISIONS



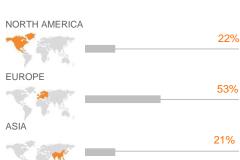
PRODUCT OFFERINGS



CUSTOMER SEGMENTS

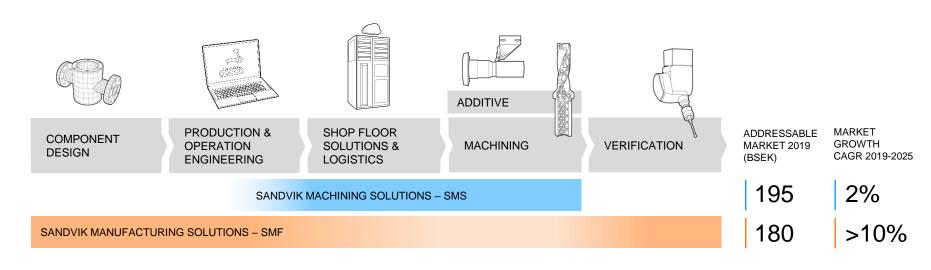


GEOGRAPHY



EXPANDING OUR OFFER ABOVE AND BEYOND

TWO BUSINESS AREA SEGMENTS - DIFFERENT OPPORTUNITIES, STRONG SYNERGIES



SANDVIK MANUFACTURING SOLUTIONS SANDVIK CAPITAL MARKETS DAY 2022





SANDVIK MANUFACTURING SOLUTIONS

PROFORMA 2021

REVENUES

SEGMENTS

AUTOMOTIVE

24%

GENERAL

ENGINEERING

57%

3.1_{bn} SEK

AERO/SPACE/

DEFENSE

10%

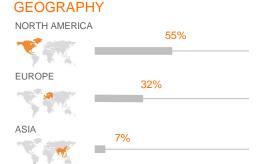
OTHER

9%

ADJ. EBITA MARGIN

EMPLOYEES

10.4% ~1,900



PRODUCTS



DIVISIONS

AUTOMATION



Mastercam **EECRIB**WISE



comara











INDUSTRIAL **METROLOGY**











OSPRFY®

SET UP FOR GROWTH



DESIGN & PLANNING AUTOMATION

Base for the accelerated need of automation in the manufacturing process



ADDITIVE MANUFACTURING

A green technology with doubledigit growth in industrialization phase



INDUSTRIAL METROLOGY

Moving towards real-time decisionmaking during the machining process



USD 200 MILLION ACQUIRED IN 2021





LEADING CAM SOFTWARE COMPANY (CNC SOFTWARE)

COMPLETED: SEPT 29, 2021

60 MUSD





COMPLETED: OCT 15, 2021

68 MUSD





LEADING METROLOGY & AUTOMATION COMPANY COMPLETED: OCT 1, 2021

78 MUSD





LEADING PROVIDER OF QUALITY MANAGEMENT SOFTWARE

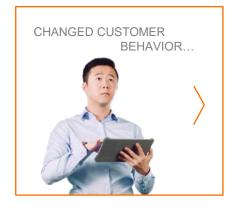
COMPLETED: DEC 27, 2021

10 MUSD

Revenues 2020

DEMAND DRIVERS OF GROWTH

THE MARKET IS READY FOR NEW TECHNOLOGIES









STRONG UNDERLYING GROWTH

WORLD **REAL GDP**



CAGR 2019-2025

INDUSTRIAL ROBOTICS



CAGR 2019-2025

COMPUTER AIDED MANUFACTURING (CAM)



CAGR 2019-2025

ADDITIVE



CAGR 2019-2025

INDUSTRIAL METROLOGY



CAGR 2019-2025



Addressable market

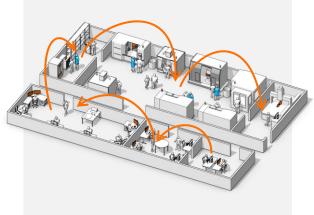


SHIFT TO GROWTH

SANDVIK MANUFACTURING SOLUTIONS



We are part of the industry we serve....



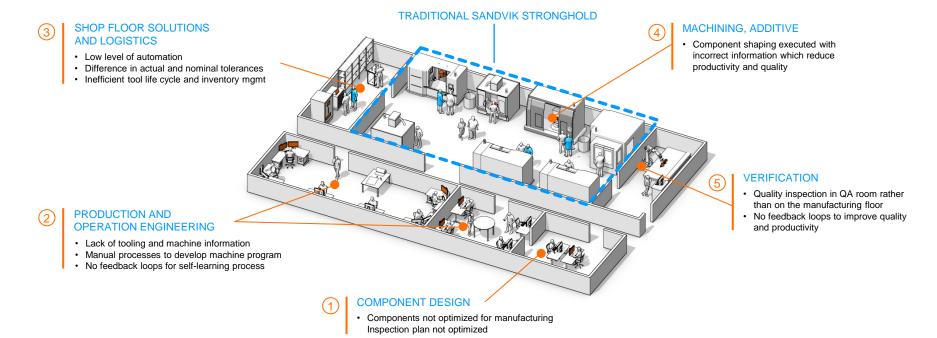
...offering open and agnostic software and end-to-end solutions...



...shaping new markets with partners in our collaboration network

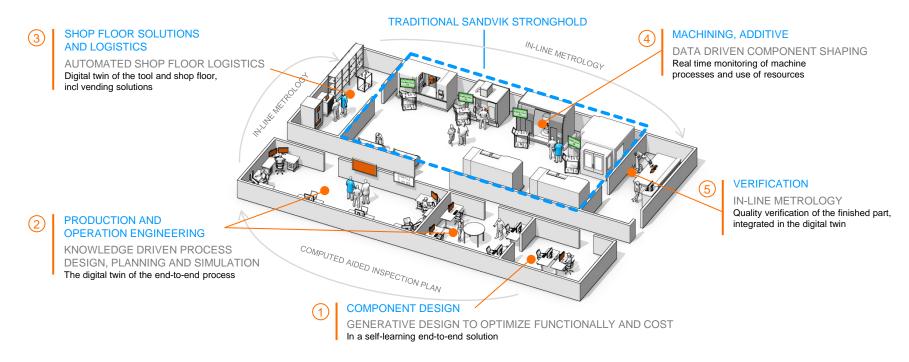


LARGE POTENTIAL TO MAKE COMPONENT MANUFACTURING MORE EFFICIENT

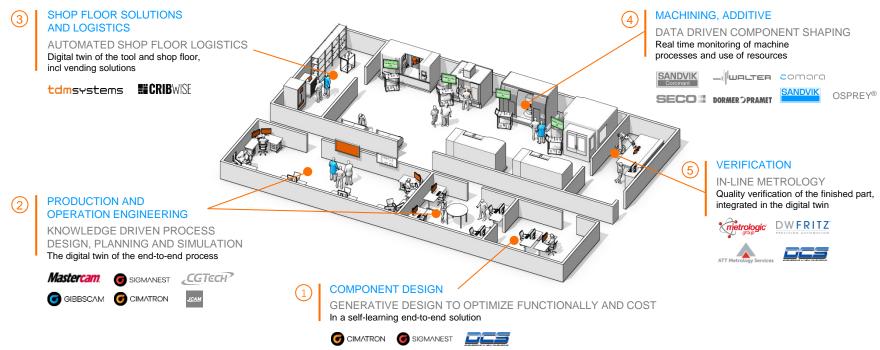


CLOSING THE LOOP

ENABLING SCALABLE PROCESS OPTMIZATION THROUGHOUT THE VALUE CHAIN



SANDVIK IS BUILDING A COMPREHENSIVE OFFERING FOR THE WORKSHOPS



A STEPWISE APPROACH 2021-2025

ACCELERATE GROWTH ON STRONG ASSETS

ESTABLISH A LEADING POSITION IN KEY MARKET



CREATE VALUE AND SYNERGIES

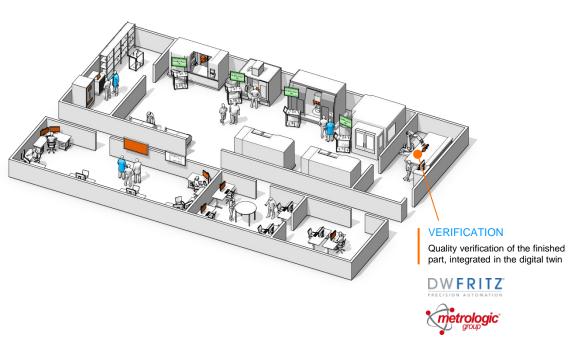


EBITA MARGIN ~20%

EBITA MARGIN ~10%

FINE MECHANICAL COMPONENTS

ZeroTouch® and Metrolog X4®



CHALLENGE

- Inspection is a bottleneck to ramp up production
- Current solutions too time consuming with low accuracy
- Not connected to the digital manufacturing chain

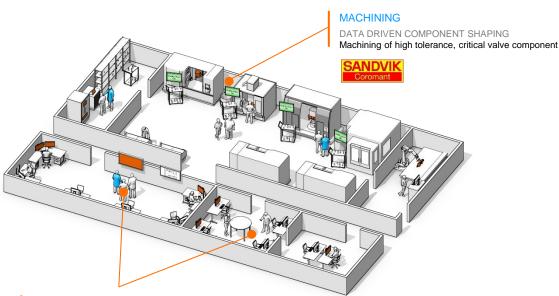
SOLUTION

- Combining ZeroTouch® with Metrolog X4® gives 10 times faster inspection time
- Measure up to 50 more features using an accurate 3D point cloud solution
- Measurement results integrated in manufacturing intelligence



NAVAL BALL VALVE CONTRACTOR

Silent Tools® and Dynamic Motion®



PRODUCTION AND OPERATION ENGINEERING

KNOWLEDGE DRIVEN PROCESS DESIGN, PLANNING AND SIMULATION The digital twin of the end-to-end process



CHALLENGE

- · Current solution took over 140 hours to machine
- · Lower quality surface finish than required
- · High consumption of tooling

SOLUTION

- Sandvik Coromant tool dampening technology, high feed insert performance with Mastercam Dynamic Motion[®] toolpath optimization
- Productivity increased by >3
- · Improved tool life over 20%
- · Prolonged lifetime of final component



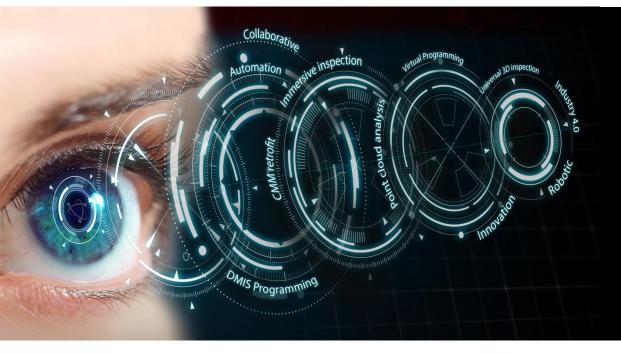
FINANCIAL TARGETS



FINANCIAL TARGETS

THE STRATEGY EXECUTION FROM NOW TO 2025

2025



60% software

6 BSEK 2

in revenues

20% EBITA margin



SUMMARY

SANDVIK MANUFACTURING SOLUTIONS



- Strong market growth
- Agnostic expansion into digital and emerging technologies with recurring revenues
- Position with strong brands established
- Increase share of software
- We shape new markets and accelerate Sandvik synergies
- 6 BSEK in revenues 2025



SANDVIK MACHINING SOLUTIONS SANDVIK CAPITAL MARKETS DAY 2022





SHIFT TO GROWTH

Extensive brand portfolio

The Shift

Focused growth agenda



RECOVERY CONTINUES IN TOP SEGMENTS (1/2)







· Asia-Pacific to double

expected at 2%-levels

fleet long-term

Long-term growth



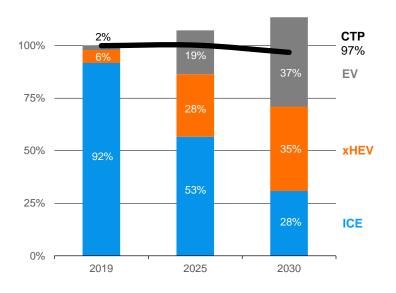
ENERGY

- Low-carbon goals pushing renewables
- Higher industrial activity demands oil
- · High activity in power generation

AUTO MACHINING POTENTIAL FLAT

VEHICLE VOLUMES GROW AND SHIFT TO ELECTRICAL, MACHINING REMAINS FLAT

Light vehicle volumes and cutting tool potential (CTP), relative 2019





Hybrids and EVs continue growing

In 2030, 65% of cars still have an ICE

Complex powertrains increase machining also in EVs

EV cutting tool potential factor increase from c. 0.4 to c. 0.5

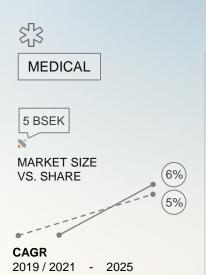
Growth opportunity in aluminum and lightweight materials

Source: Light Vehicle production forecast - ÍHS Markit April 2022, 2019-2029, Trend extended to 2030; Sandvik analysis

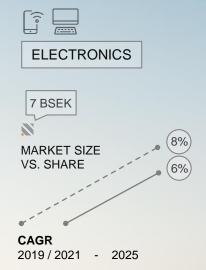
(EV = Electric Vehicle - electric motor, xHEV = hybrid electric vehicle - combustion engine + Electric Motor, ICE = internal combustion engine

Note: The cutting tool potential factor of an average ICE vehicle is 1.0, and for an XHEV 1.1

FAST GROWTH AMONG FURTHER SEGMENTS (2/2)

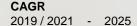


- · Demographic shift
- Emerging markets and developing economies
- Increasing personal income and improved standard of living

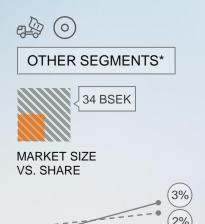


- Short product life cycles
- New technologies
- Increased demand to be mobile and connected





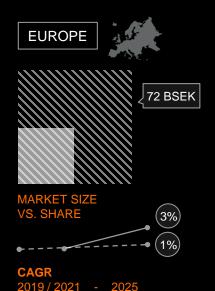
- Strong relationship to automotive component manufacturers
- Fast growing consumer electronics



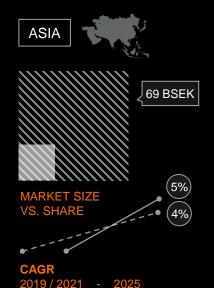
CAGR 2019 / 2021 - 2025

- Includes, e.g., Pump & Valve, Rail, Machine Tool Builders, etc.
- Investment in capacity and productivity
- Increased demand of minerals and metals used in eco-friendly products
- Trade and transport

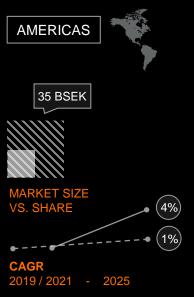
ASIA CHALLENGES EUROPE, US STRONG



- Slower local growth
- Renewable energy, lower emissions
- Digitalization



- COVID-recovery slowing
- Continued GDP growth and goods demand
- For China, trade-political uncertainty



- Stable GDP growth
- Strong underlying manufacturing demand
- Investment in new technology and automation





- High GDP growth from lower levels
- Industrialization
- · Energy and metal

A GROWING MID-MARKET

High-volume component manufacturing

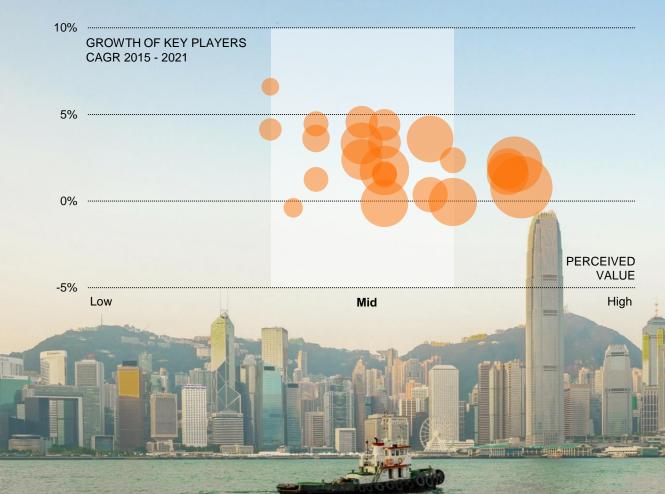
Distributor driven

Online

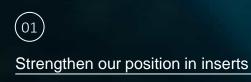
Fragmented / local

Versatile applications

Asia-Pacific



SMS GROWTH JOURNEY – SIX FOCUS AREAS





Take a leading position in round tools



Become a market leader in mid-market



Grow outside Europe



Master the automotive shift



Be the industry leader in expanded offer beyond tools

SMS GROWTH JOURNEY - SIX FOCUS AREAS



Strengthen our position in inserts

Outgrow market

Value, margin, share



Take a leading position in round tools

Acquisitions

Offering

Market access



Become a market leader in mid-market

International channels

Cross-selling

Asia



Grow outside Europe

Local premium

Cross-selling

Complementarities



Master the automotive shift

Full offering

Solution partner

Capabilities



Be the industry leader in expanded offer beyond tools

Connected machining

Lead times, quality, efficiency

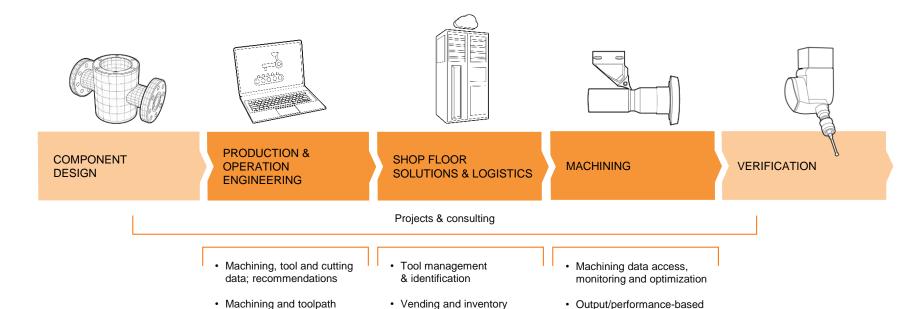
New business models

MACHINING KNOW-HOW DELIVERED



MACHINING KNOW-HOW DELIVERED

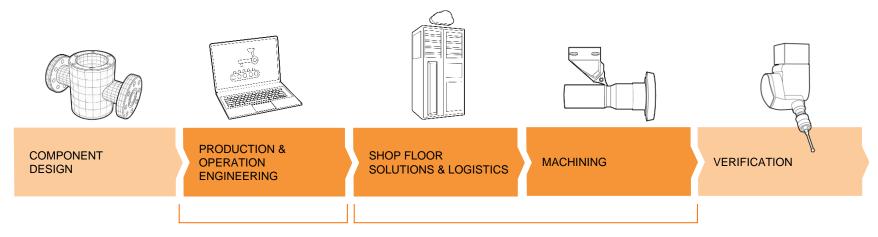
verification and optimization



management solutions

business models

MACHINING KNOW-HOW DELIVERED

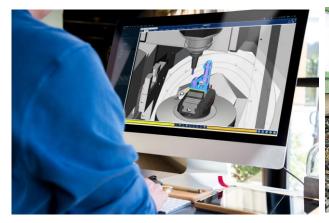


- Efficiency
- Predictability
- · Tool choice
- Machining time
- Quality

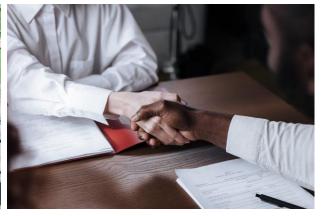
- · Productivity
- Tool life and utilization
- · Component and process security
- Capex
- Sustainability

KEY ACHIEVEMENTS









WHAT HAVE WE ACHIEVED SO FAR

EXPANSION IN DIGITAL OFFERING

Strengthened position in toolpath verification and optimization

Proven customer value and traction

New platform technology in tool identification

SUSTAINABILITY

CO₂ reductions and green energy

Waste reduction

Energy efficiency

Safety

M&A

9 acquisitions since end-2018

Position in strategic growth areas

2.4 BSEK

2.300 personnel

Increasing pace and size

GROWTH IN ROUND TOOLS

CAPABILITIES AND OFFERING THROUGH ACQUISITIONS





Customized PCD and taps

General engineering and aero

Advanced components and lightweight

MSEK

EMPLOYEES

875

490



Premium quality taps

General engineering and auto

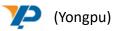
Threading competence

MSEK

EMPLOYEES

200

230



Local premium - full value chain

Auto, die & mold, electronics

Platform for further growth and M&A

MSEK

EMPLOYEES

400

500

STRONG MOMENTUM IN MID-MARKET

ACTIONS IN FOUR AREAS DRIVE OUR GROWTH

INTERNATIONAL CHANNELS



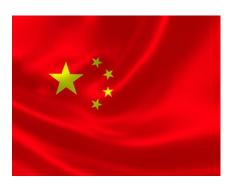
CROSS SELLING



INDIA GROWTH



CHINA GROWTH



+30-40%
VS 2020 (TOP CHANNELS)

+15-20% VS 2020

+40-50%

+20% CHINA VS 2020

EXPANDED OFFER PROVING ITS VALUE



Machining and toolpath verification and optimization





Machining, tool and cutting data; recommendations



Quality verified numerical code

Cycle time -25%

Reduced cost

Optimized process



NEW TARGETS



NEW TARGETS

THE STRATEGY EXECUTION FROM 2019 TO 2025

SHORT TARGET SUMMARY

CORE BUSINESS

> MARKET
SROWTH
ORGANIC GROWTH

~50% FROM M&A



REVENUE CAGR

5%

10%

EXPANDED OFFER

+2 bn SEK

ACTIONS

Clear focus on growth areas

Alignment of goals, actions and metrics

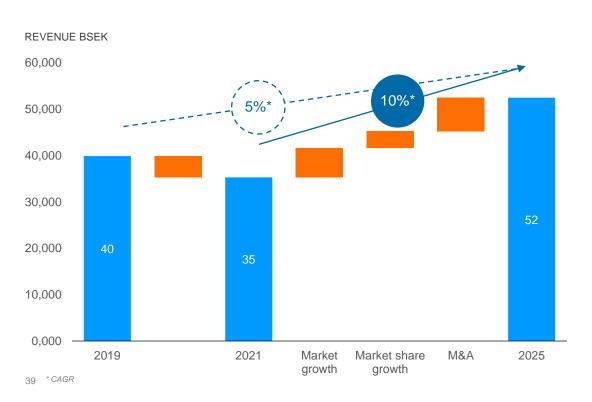
Short feedback loops, agile decision making

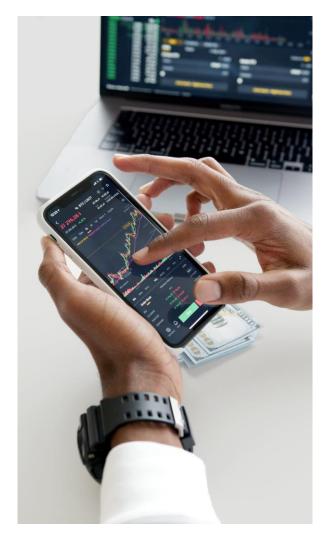
Capability building organically and inorganically

Continuous optimization of structure and process

Innovation to drive value and margins

NEW GROWTH TARGETS





VISION





UNIQUE MARKET POSITION

SOFTWARE SEATS (SMM)

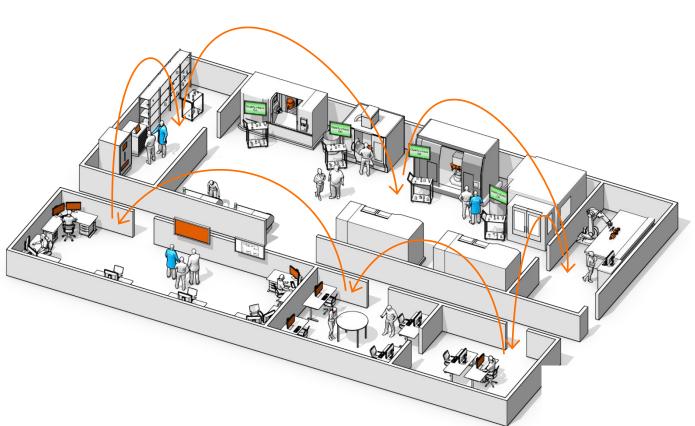
400 000

DIRECT CUSTOMERS (SMS)

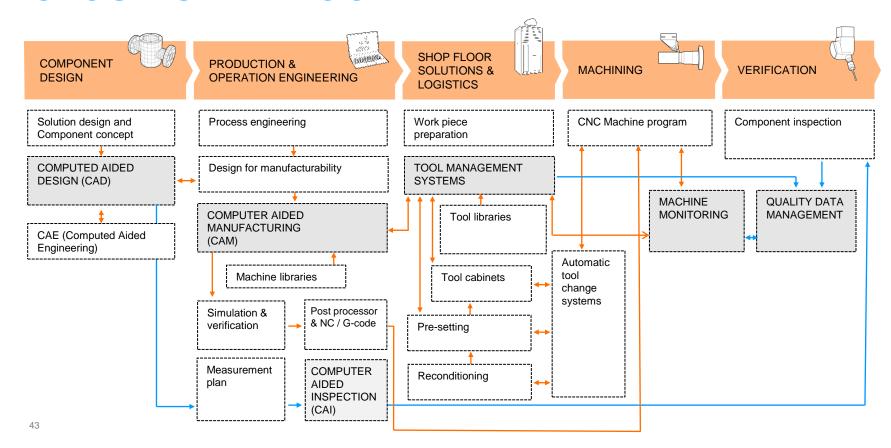
100 000

MARKET SHARE (SMS)

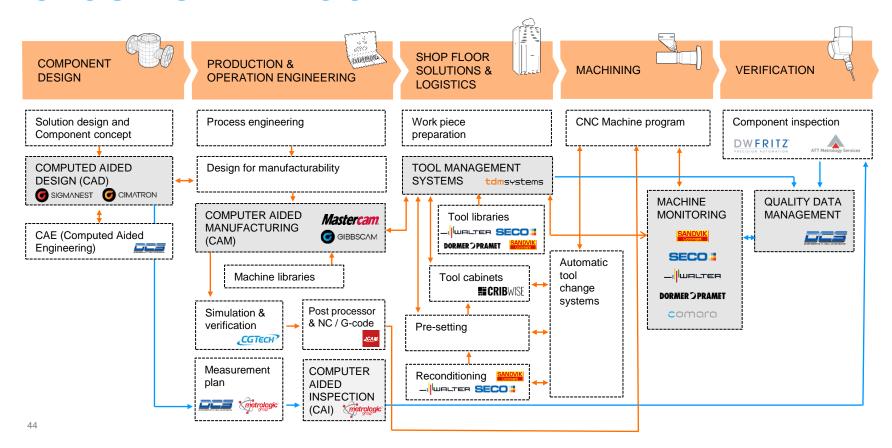
20%



CLOSING THE LOOP



CLOSING THE LOOP



UNIQUE MARKET POSITION

SHAPING NEW BUSINESS AND REVENUE MODELS

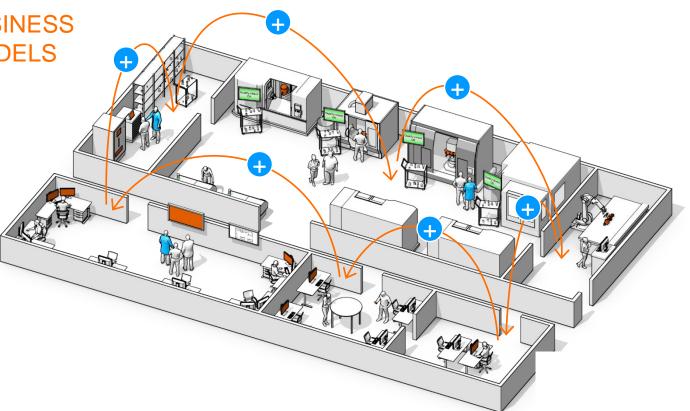
EXAMPLES

Pay per part

Quality assurance integration

Tool data integration

Hybrid manufacturing





Q&A SESSION



DISCLAIMER STATEMENT

"Some statements herein are forward-looking and the actual outcome could be materially different. In addition to the factors explicitly commented upon, the actual outcome could be materially affected by other factors for example, the effect of economic conditions, exchange-rate and interest-rate movements, political risks, impact of competing products and their pricing, product development, commercialisation and technological difficulties, supply disturbances, and the major customer credit losses."



