# Vacuum Technique

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202025

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Geert Follens, Business Area President Capital Markets Day 2022

VACUUM PUMP

DOD TT

Atlas Copco

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# Agenda

Facts in brief

2 Market trends and business fundamentals

3 Strategy for growth

An enabler of the transition to a low carbon society

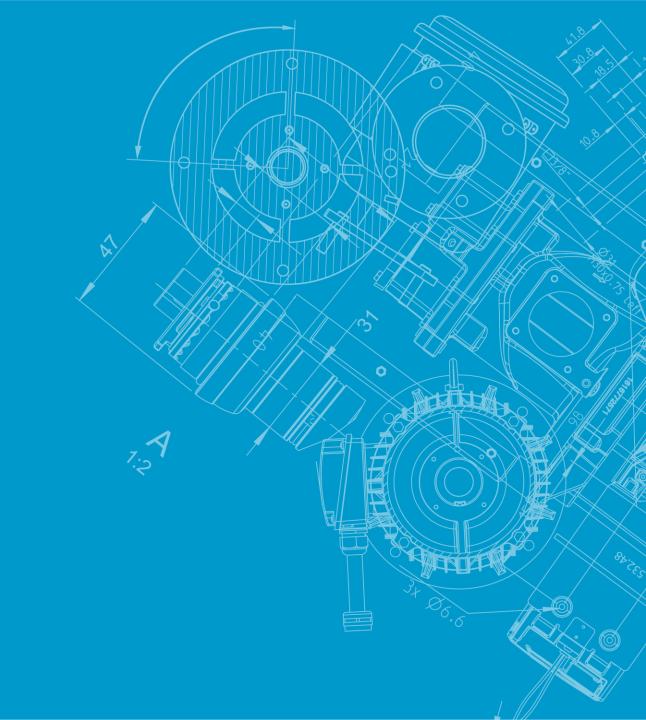
5 Summary

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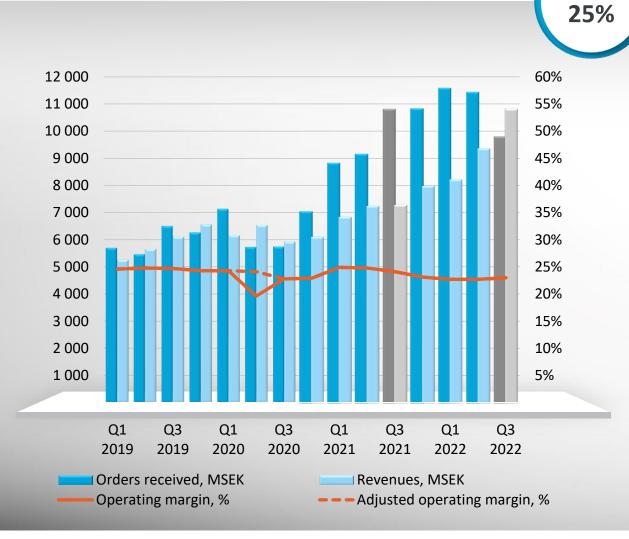


**AtlasCopco** 

# **Facts in brief**



### Vacuum Technique



### **MARKET TRENDS / DRIVERS**

Semiconductor

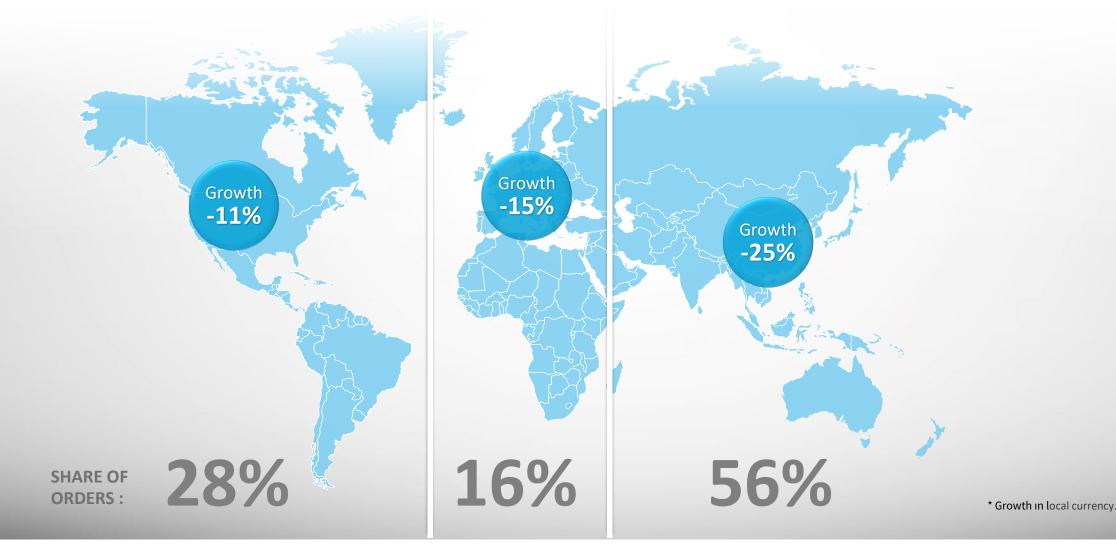
ROCE

- Miniaturization
- Machine-driven data generation
- 5G, AI, VR, Automotive, Healthcare
- Interconnectivity
- Legislation
- Industrial Vacuum
  - Food regulations
  - Li-Ion batteries
  - Solar
  - Space
- Common Trends
  - Sustainability
  - Service Up-time & Connectivity
- Geopolitics Local for Local





### Orders received July – September 2022 vs 2021

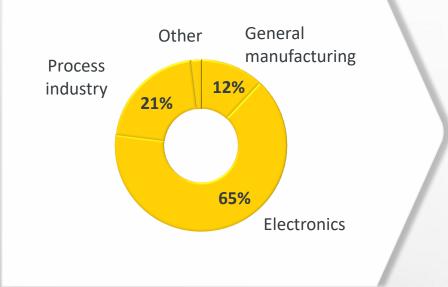




### The market we operate in



January – September 2022



### ELECTRONICS

- Machine data and interconnectivity driven
- Revival of 200mm fabs for complicated/IOT chips
- Harsher processes
- More foundry players, local for local
- Capacity and Agility take share

### PROCESS INDUSTRIES

- Increasing market share across the process industry food, chemical refining, and metallurgy
- Extensive range of applications in food sector e.g., canning, packaging, and freeze drying

### GENERAL MANUFACTURING

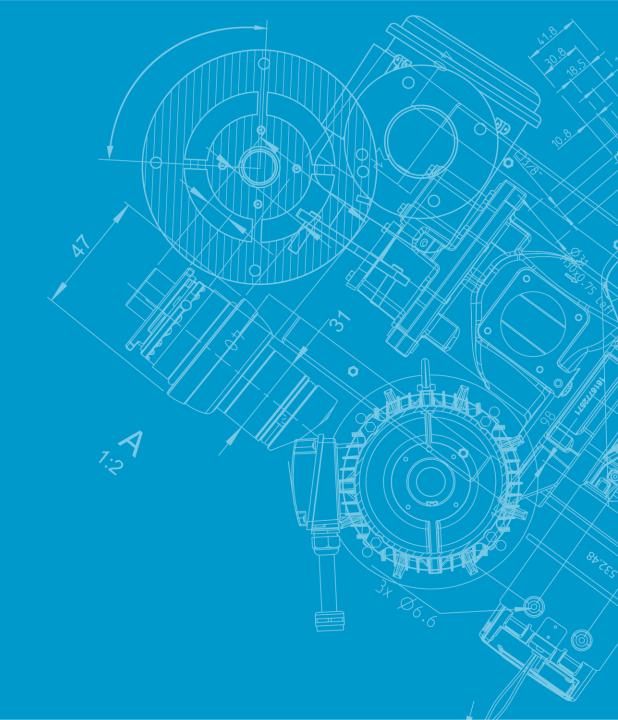
- Clear market leadership
- Wet to dry transition
- Liquid Ring Focus
- Mobile vacuum

### OTHER

 Enabling advancements in space simulation and solar cell production, glass and optical coating



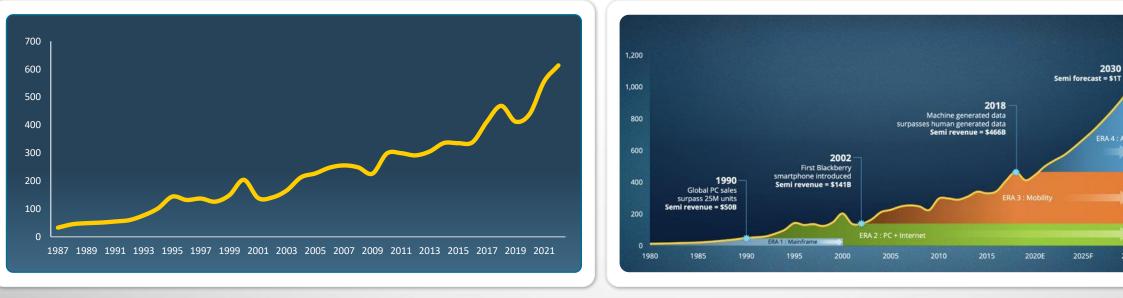
# Market trends and business fundamentals



### Semiconductor market size

### CAGR 10% over full 35 year term





\*Source: Applied Materials

2030

SEMICONDUCTOR INDUSTRY REVENUE (\$B)

\*Source: Statista June 2022

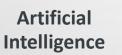


2030F

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### **Market drivers**







5G Network



Cloud Computing



Gaming





Work from home



Super Computing



ΙοΤ



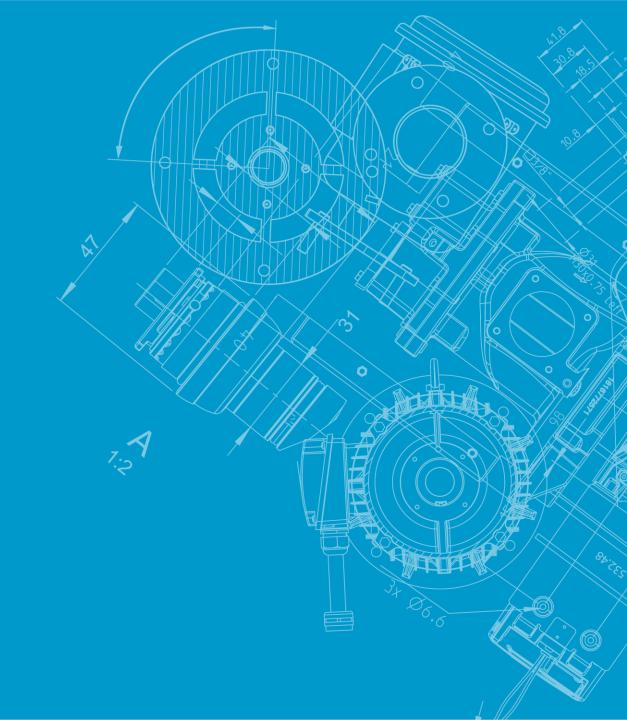
Automotive



Industrial



# Strategy for growth



### Strategy for profitable growth – Summary



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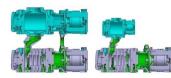






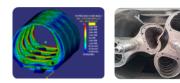
# Why we innovate

#### **PERFORMANCE DENSITY**



- Footprint, NVH, 3D Printing
- EMS Emissions, PFC, NOx

#### **PRODUCT INTEGRITY**



- Safe Operation
- Reliability & Robustness

#### HARSH APPLICATION SOLUTIONS

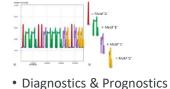


- Powder Management
- Corrosion Resistance

**MOTORS & DRIVES** 

- Variable Speed / Universal
- 1f, 3f, 80W 11kW

#### MONITORING ALGORITHMS



• Operation optimization

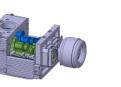
#### **PRODUCT CLEANLINESS**



- Particle Management
- Contamination Reduction

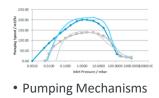
#### **BASELINE CORE TECHNOLOGY THEMES**

#### **PRODUCT ENERGY & EFFICIENCY**



- Optimized mechanisms
- Utilities Consumption

#### **SIMULATION & ANALYTICAL TOOLS**



Network Modelling

#### **INTELLIGENT CONTROLS**



- Intelligent operating modes
- Interfaces/Protocols

#### **CIRCULAR ECONOMY & RENEWABLE**



- Reduce, Reuse, Recycle
- Abatement Electrification

#### **DIGITAL TWINS**



• IoT, Sensors, Ecosystems

• ML/AI Analytics, HMI

#### **NEW TECHNOLOGIES/APPLICATIONS**



- Cryogenics, Chillers, Traps
- Gauges, Detectors, Quantum

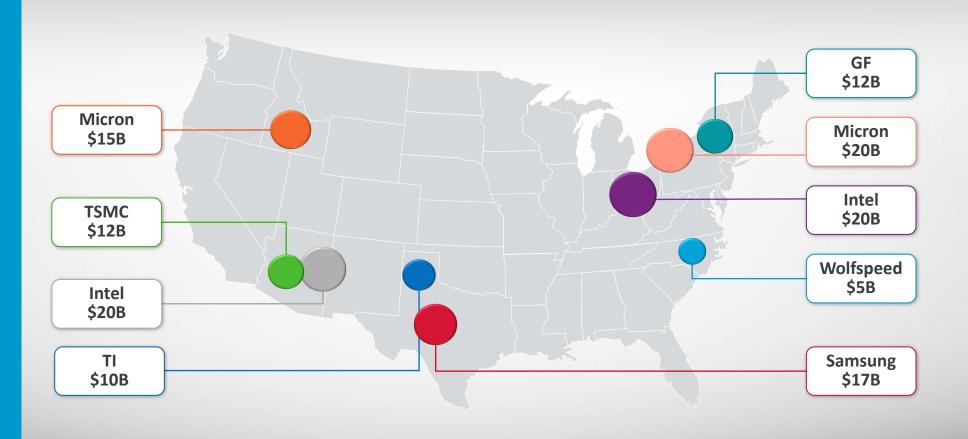
#### **INCREASED FOCUS, SKILLS, PROJECTS**



# Local for Local – US Chips Act

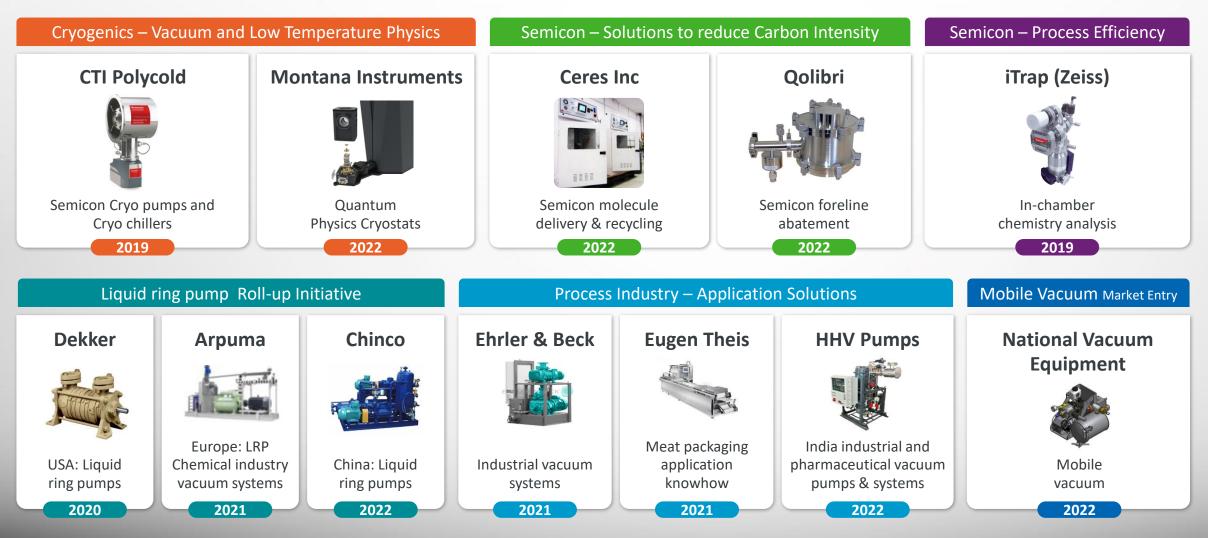
### **Recently announced customer investment plans 2023-2025**

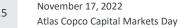
- Semiconductor manufacturing in USA is now a matter of national security
- Only 10% of the worlds chips are now made in the USA
- In July 2022, US Congress passed the CHIPS Act
- Geopolitics will be the top factor in influencing where investments are made
- The construction of new semicon manufacturing facilities has increased 116% over the last year





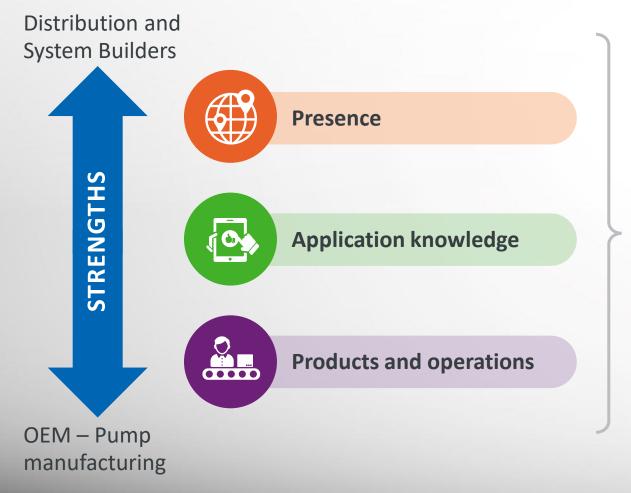
### VT Strategic approach to acquisitions (Semicon and Industrial / Scientific Vacuum)







### Industrial Vacuum acquisition strategy



Hundreds of small sized distributors and system companies that possess unique and in-depth vital application knowledge



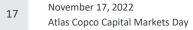
Realize full potential and growth acceleration

Less then 50 industrial vacuum OEMs with IP, factory and pump production operations

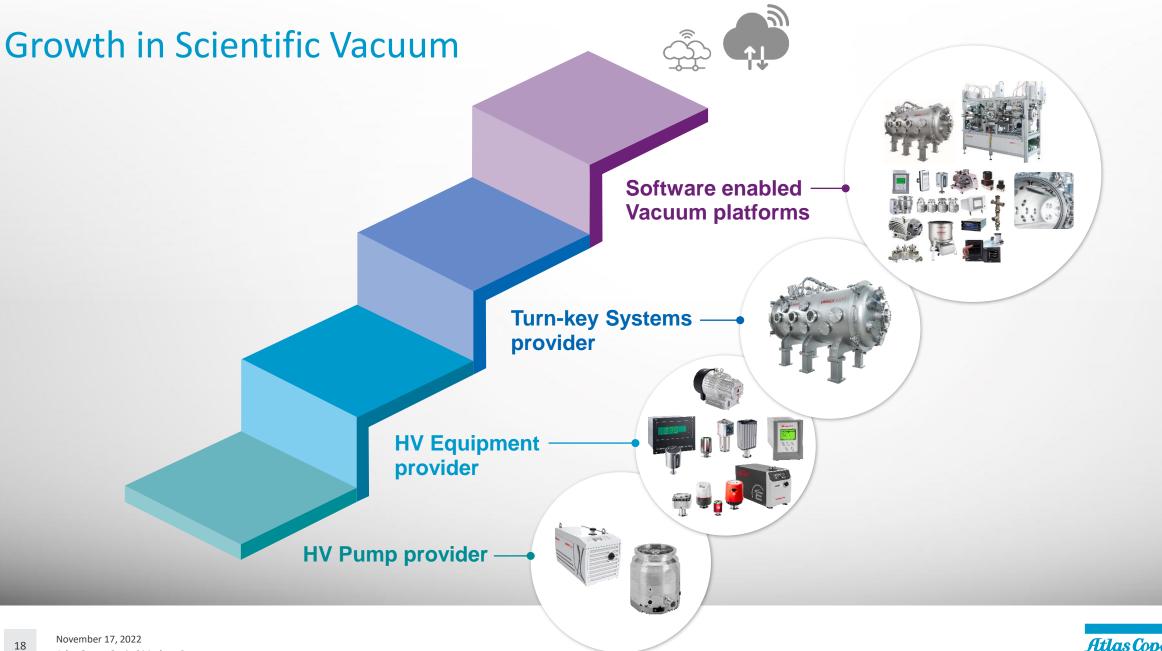


### Market leader in Industrial and Scientific Vacuum











## Vacuum Technique Global Footprint



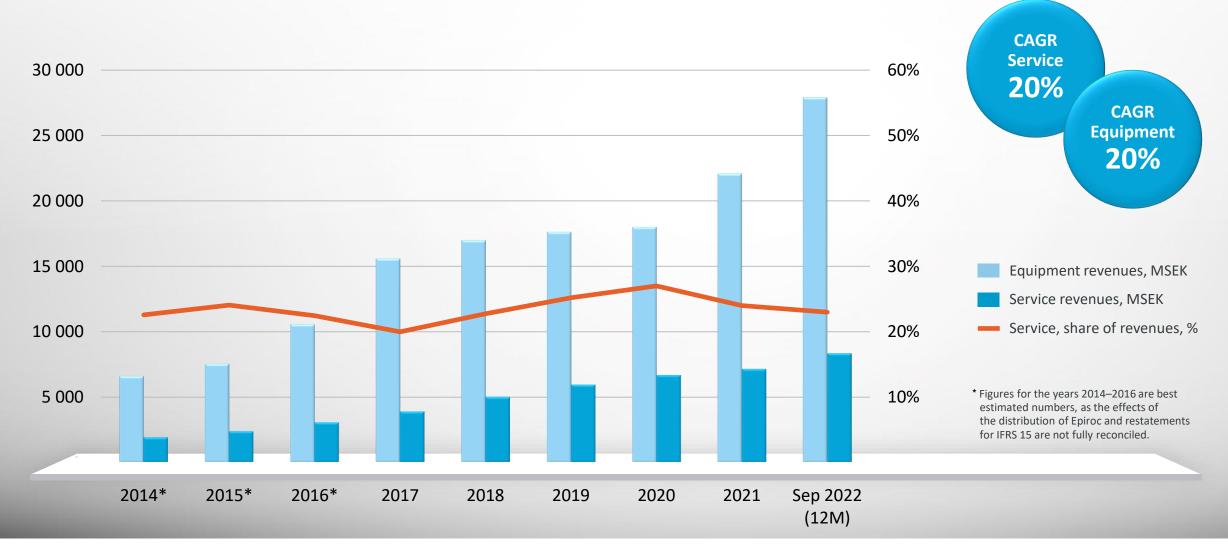


## Vacuum Technique Global Footprint





### Vacuum Technique – Growth in equipment and service





## Vacuum Technique Service strategy

### **Convenience, Quality and Customer Value**

SALES	Proactive sales management – territory & Installed Base potential guiding activities, presence, lead generation OEM and distributor management, supported by active price management and growth through acquisitions	Exceed customer expectations through planned business and online order tracking	CUSTOMER FOCUS
SERVICE BUSINESS MODEL TRANSFORMATION	Connectivity Expanding services, competitor business and online presence	Administration, planning tech support and United Field Service with increased efficiency, supported by local4local, freight & inventory optimization	<b>CONSOLIDATION</b>

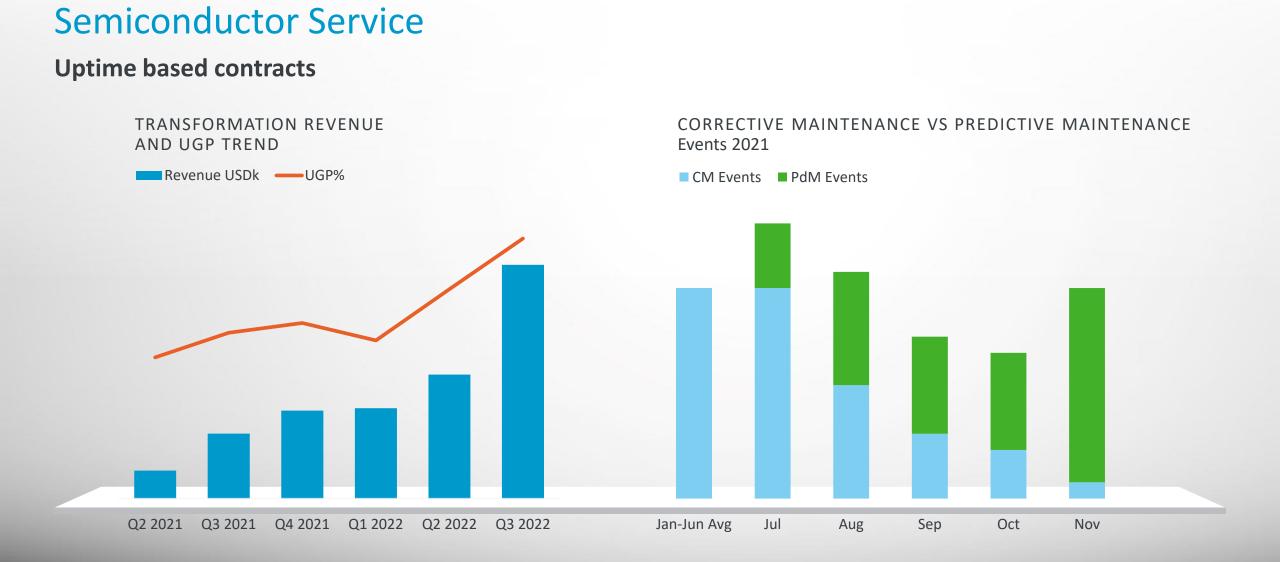
22 November 17, 2022 Atlas Copco Capital Markets Day



### **GENIUS Portal**









### Vacuum Technique People & Culture Strategy



#### Attract & develop best talent

- Continue to provide different entry opportunities to attract and develop a diverse, innovative and agile talent and skills-based pipeline.
- Invest in early careers to meet our demographic and growth goals. Target 5% of workforce joining via one of our early careers programs.



- Develop future proof leaders who role model key behaviors & coach for high performance.
- Develop inclusive leadership behaviors that explicitly drive our D&I agenda, our Sustainability agenda and our focus on Growth mindset.

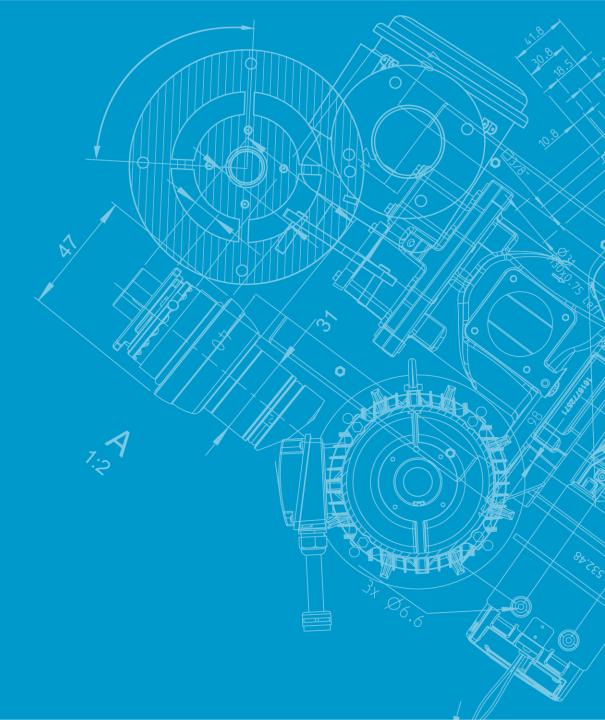


- An inclusive, diverse culture that inspires wellbeing, creativity and passion, self driven learning and where people have a sense of belonging and purpose.
- Investment in wellbeing activities to help our people better manage their own wellbeing to achieve their full potential.

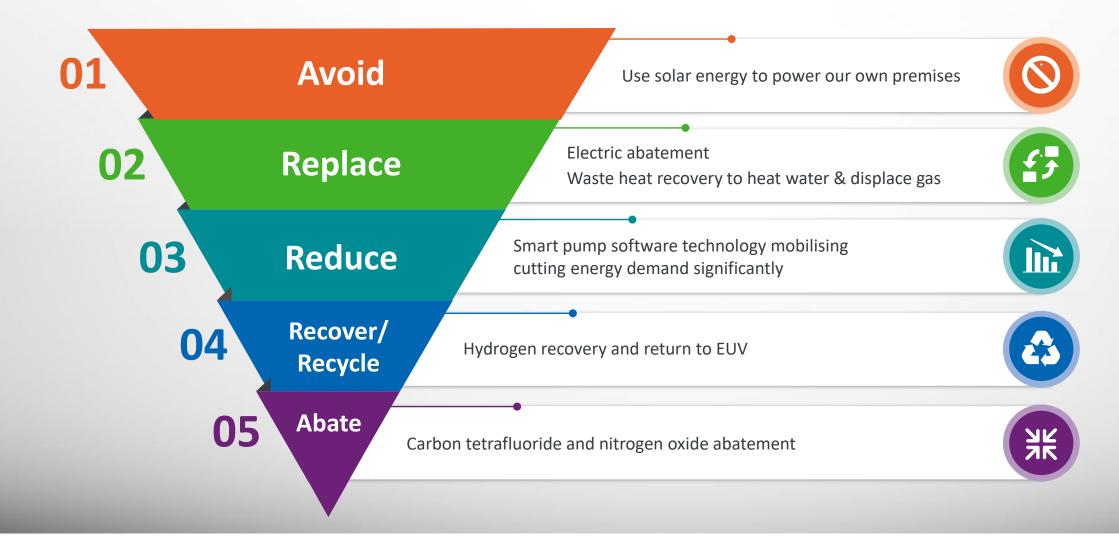
KEY ENABLERS: Digitalization and data analytics to support speed, efficiency and informed decision making



# An enabler of the transition to a low carbon society



# Towards a low carbon society – CO<sub>2</sub> reduction hierarchy

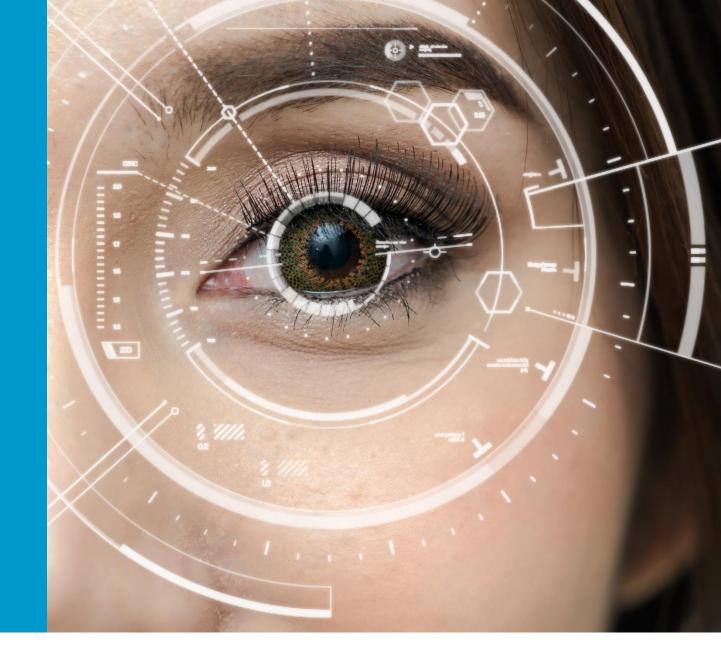


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### Summary – Vacuum Technique

- Develop channels organic + inorganic
- Expand core business
- Continuous innovation
- Capacity to take share
- Local for local
- Connectivity and uptime
- Data delivering growth
- Looking after our people
- Contributing to a low carbon society







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### **Forward-looking statements**

"Some statements herein are forward-looking, and the actual outcome could be materially different. In addition to the factors explicitly commented upon other factors could have a material effect on the actual outcome. Such factors include, but are not limited to, general business conditions, fluctuations in exchange rates and interest rates, political developments, the impact of competing products and their pricing, product development, commercialization and technological difficulties, interruptions in supply, and major customer credit losses."