





# Agenda

- 1 Facts in brief
- 2 Trends and driving forces
- 3 Focus and priorities
- 4 Innovation in reality
- 5 Summary





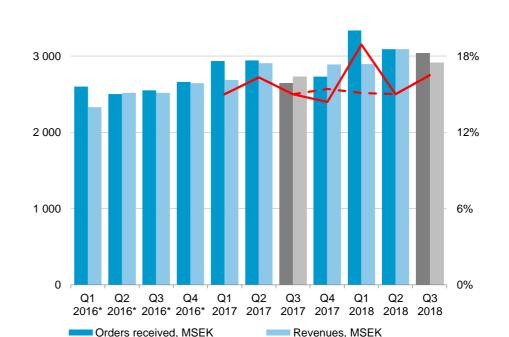
# Power Technique

#### Growth drivers

- Increased infrastructure investments
- Localization of our products to meet local legislations
- Innovation in equipment
- Expanding the service offer
- Strengthen market position in pumps, generators and light towers
- Develop a service network for indirect channels
- Environmental regulations

#### ORDERS, REVENUES AND OPERATING MARGIN





\*2016 quarterly figures shows best estimated numbers, as effects of the split of the Group and restatements for IERS 15 are not fully reconciled.

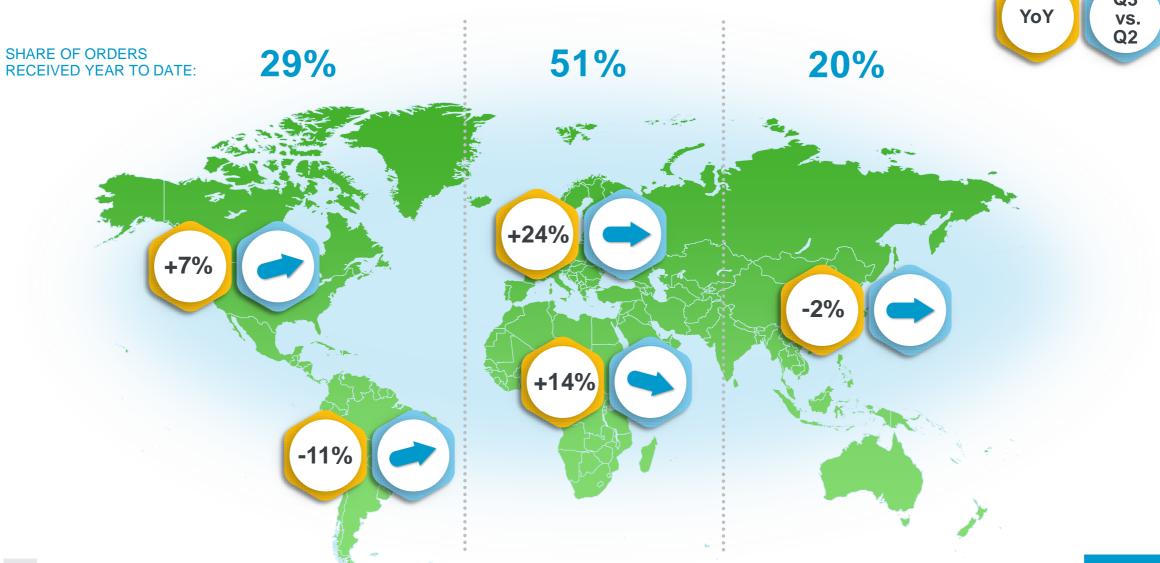
Adjusted operating margin, %

Operating margin, %





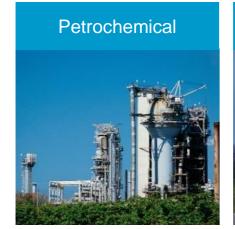
# Orders received – local currency Q3 2018



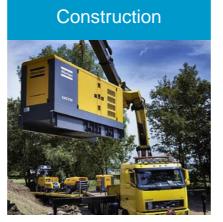


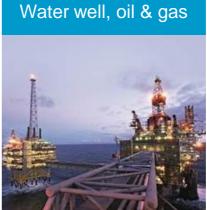
## Focused on construction and so much more...

Industries served include:







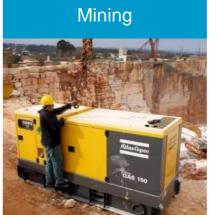


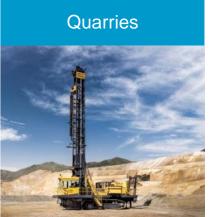












# Power Technique divisions

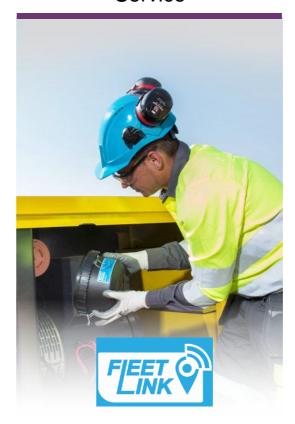
Portable Air Inc. Tools



Power and Flow



Power Technique Service



**Specialty Rental** 





**Diesel emission regulations** Trends and driving forces (particles / nox exhaust) Stage V (2019) **Global regulations** Tier 4 Stage IV Stage III & IV Other relevant types of regulations Pressure vessels Safety Road homologation Noise



# Trends and driving forces

# **Investments**



Oil & Gas



Construction



Mining







# Summary of strategic focus areas



Channel management



Portable air and handheld tools



Recurring business



Market coverage



Developing generator and pump market

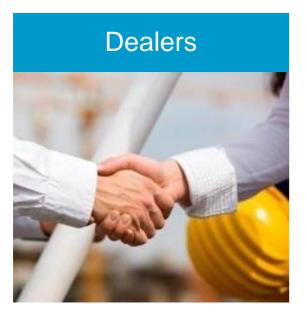


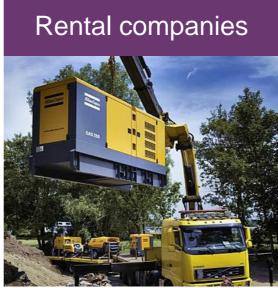
Digitalizing customer experience

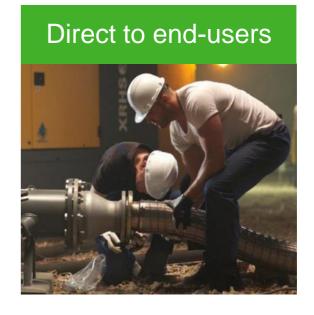


# Channel management

## **Three main segments**







# Recurring business

#### 2 service divisions

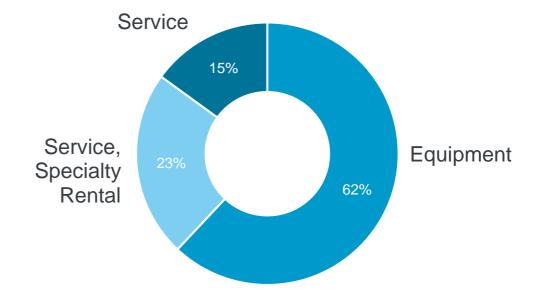


Power Technique Service



Specialty Rental

#### SHARE OF REVENUES 2017



# Developing generator and pump market

#### **Profitable niches**



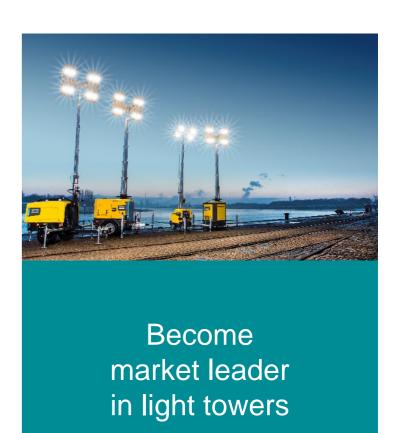
Innovate to grow market share in generators



Significant player in flow

Develop service business in selected niches pumps

Selected acquisitions to develop market share





### Portable air and handheld tools

#### Consolidate our number 1 position for portable air compressors



Develop complete electric compressor portfolio



Regionalized product offering for local needs and legislation

Dealer management tools

Focus on handheld tools



Using boosters to focus on oil & gas segment Roll out Stage V



# Market coverage

## **Geographic footprint gives** increased versatility



Generators **Light Towers** Submersible Pumps



Air compressors and breakers **Boosters** Oil free portables



Surface pumps

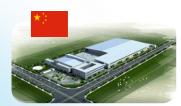


Air compressors Generators **Pumps** 



Air compressors Generators



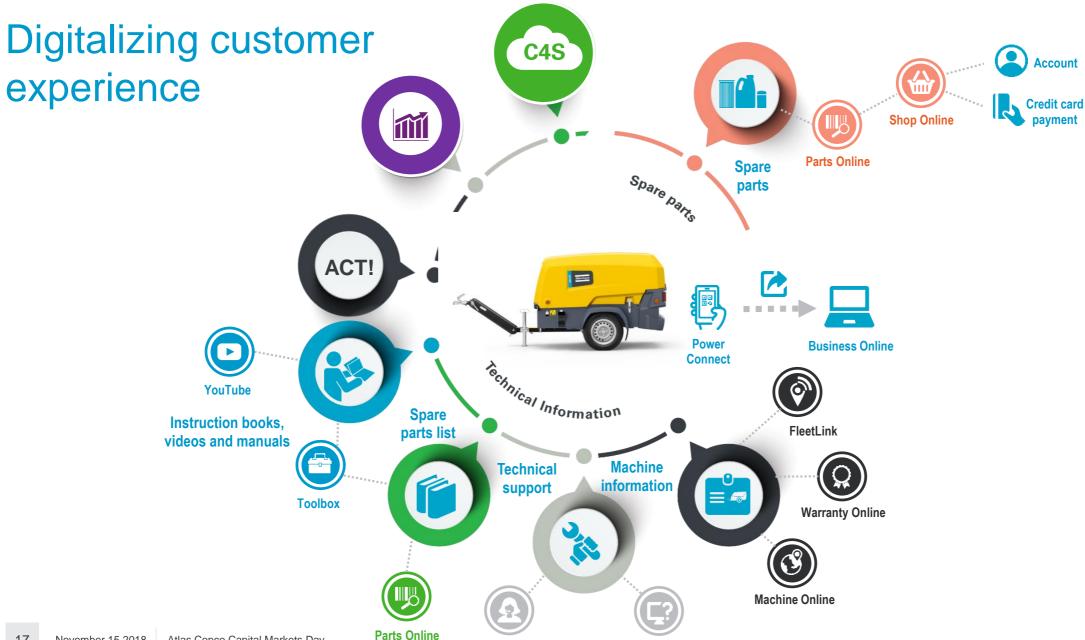


Air compressors Generators Light towers Pumps



Air compressors Generators Pumps





Call center

myQuest



# Innovation for growth

New portable efficient electric compressors



Containerized efficient Twin-engine generator for Europe



Battery technology in light towers



Extended high-flow pump range



Full range of compact utility compressors



Variable speed generator (QAS VSG)



Monitoring control

As standard on select new units retrofitting field units



Oil-free rental compressor





# Innovation in reality



Innovation: portable electric air compressor range



NOISE



#### E-Air 250

Electric motor driven

Free air delivery:

247 cfm - 117 l/s

Pressure:

174 psig – 12 bar









# Atlas Copco

www.atlascopcogroup.com





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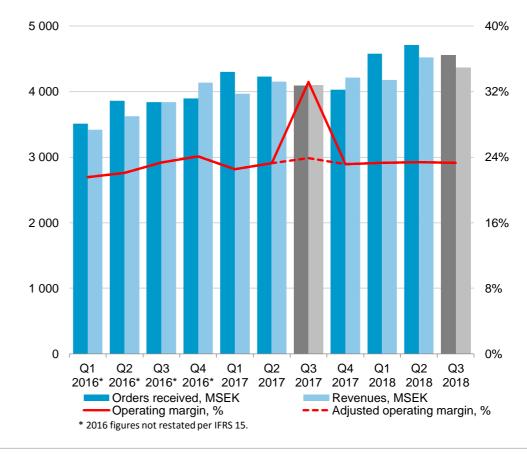
# Industrial Technique

#### Growth drivers

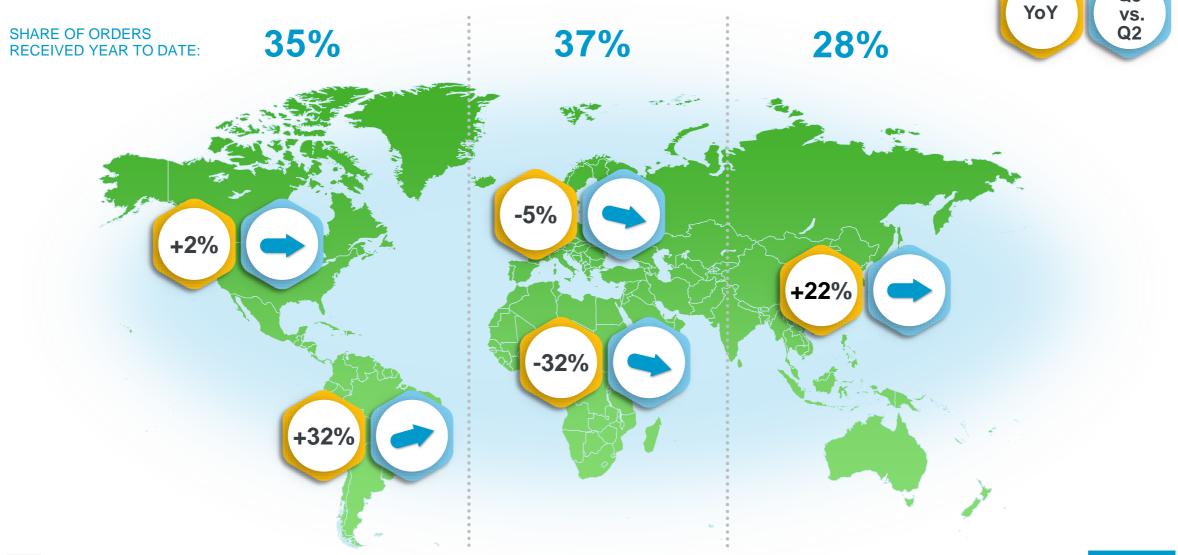
- Global offer in selected assembly technologies
- Transformation towards Industry 4.0
- New product development
- Acceleration in service

#### ORDERS, REVENUES AND OPERATING MARGIN





# Orders received – local currency Q3 2018





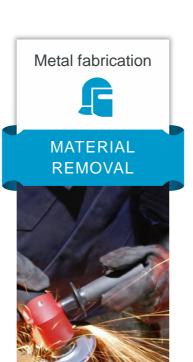
## **Broad offer**





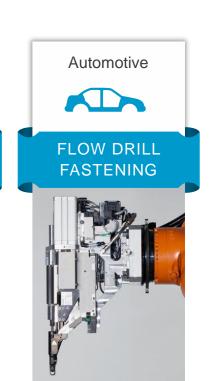












## Diverse customer base





## **Trends**

#### **GENERAL**



China

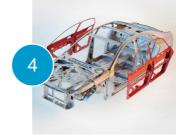


Quality, ergonomics & safety

# CUSTOMER PRODUCTS



Electric vehicles & battery



Light-weighting



Growth of Electronics

# SMART PRODUCTION



Connectivity



Flexible automation



Big data & Artificial Intelligence



# Summary of strategic focus areas

#### MOTOR VEHICLE INDUSTRY

- Expanding within assembly technologies
- Dedicated products for industrial automation

- Solutions for in-line quality control
- Transformation in Asia
- Data driven service

# GENERAL INDUSTRY

- Segment focused approach
- Smart Connected Assembly
- Dedicated products for industrial automation
- Coverage and transformation in Asia
- Data driven service



# Expanding within assembly technologies

New materials



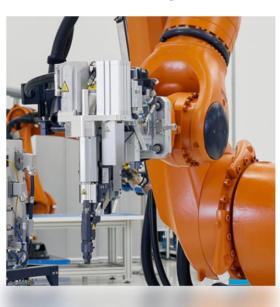


New applications





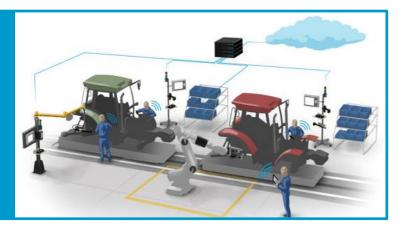
New joining technologies





# Transformation in General Industry

Smart Connected Offroad



**Smart** Connected Aerospace



**Smart** Connected Electronics



**Smart** Connected **Bolting** 



# Dedicated products for industrial automation





# Solutions for in-line quality control







Innovation for growth Enso Synatec system SQS TBP & SRB battery tools Henrob Flex system **FlexDrive** MicroTorque electric screwdriver











Spare parts
November 15, 2018 Atlas Copco Capital Markets Day

Break-down repairs

**Preventive** service

Tool management center

# ent Center Tool Management Center

Atlas Copco



TOOL MANAGEMENT CENTER



# Data analysis

Analysis of real time production data



## Data driven service

As production lines become more flexible, Atlas Copco will help customer to proactively improve quality and uptime.

**Notifications** 

Optimized maintenance

Process improvements



#### Strategic approach to acquisitions



Adhesive systems and metering technology



Drilling equipment



Quality control solutions



Mechanical and electrical wrenches

Innovation in reality



Hydraulic torque wrenches and pumps



High torque bolting solutions

# 2014

Self-pierce riveting



Hydraulic torque wrenches and pumps



Process control solutions



Adhesive dispensing equipment



Flow drill fastening



Quality inspection



# Innovation in reality

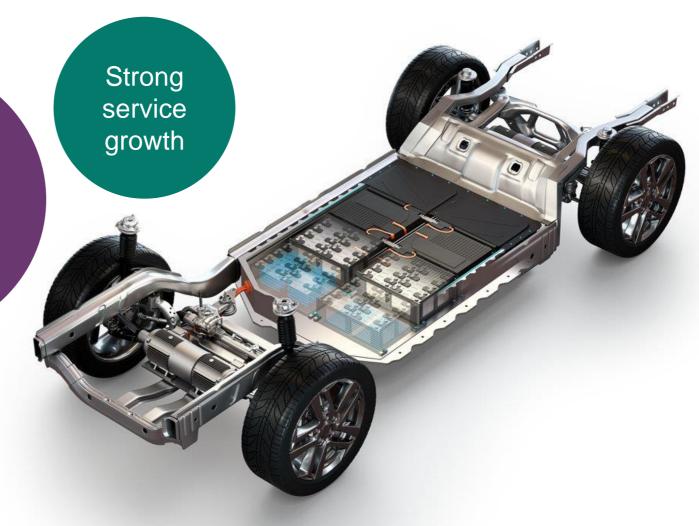


Summary

Electric vehicles and light-weighting drive growth

Sustainable business model in Motor Vehicle and General Industries

Focus on Industry 4.0





# Atlas Copco

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## Agenda

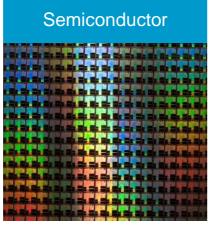
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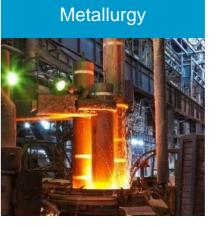


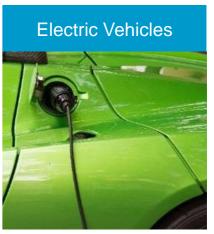
## Vacuum is everywhere!







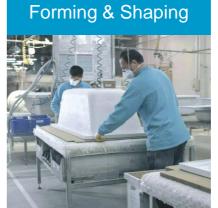












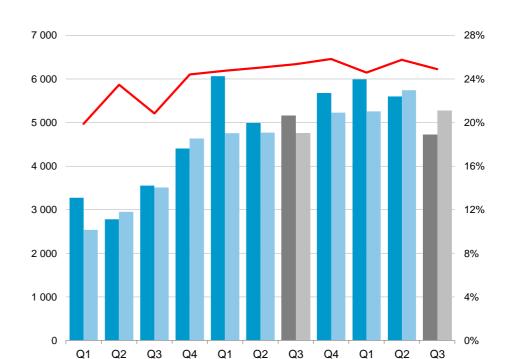


#### Vacuum Technique

#### Growth drivers

- Successful integration of acquisitions
- Embedding of decentralized organizational structure
- China focus
- Leverage synergies with other business areas and the Group
- Innovation and Digitalization

#### ORDERS, REVENUES AND OPERATING MARGIN



2016\* 2016\* 2016\* 2016\* 2017 2017 2017 2018 2018 2018

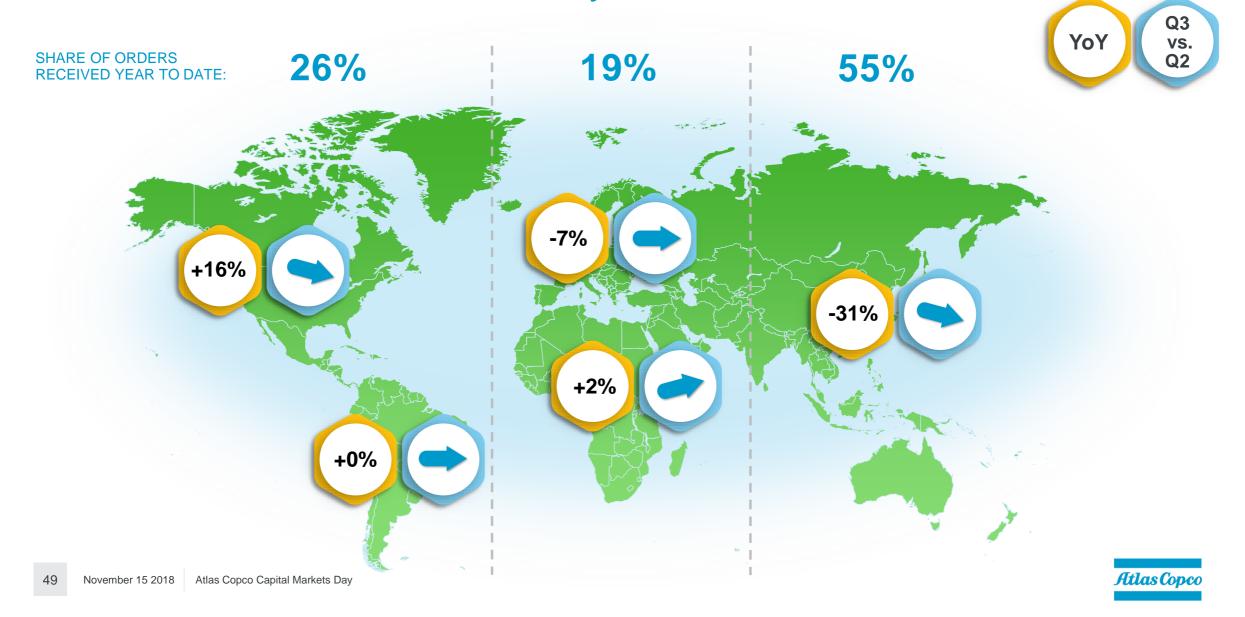
Orders received, MSEK Revenues, MSEK Operating margin, %





<sup>\* 2016</sup> figures not restated per IFRS 15.

# Orders received – local currency Q3 2018



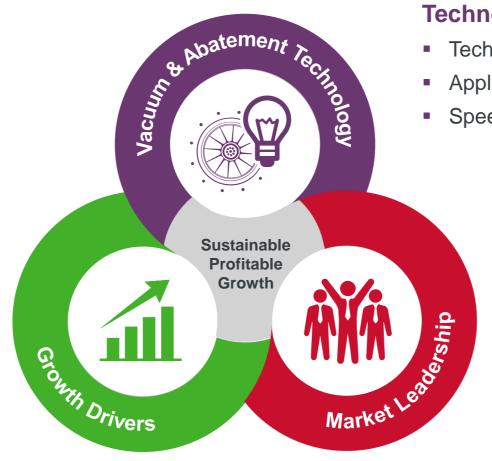
#### What is sustainable profitable growth?

# **Growth Drivers Macro Factors:**

- Climate change
- Miniaturization
- Digitalization
- Urbanization

#### **Micro Factors:**

- China Investment
- Internet of Things
- High demand for increasing process efficiency



# Vacuum & Abatement Technology

- Technology Leadership
- Application know-how
- Speed to market

#### Market Leadership

- World-class Key Account Management
- Application based solutions delivered through technology leadership
- Extensive Aftermarket
- Lean hi-tech manufacturing close to our customer base



# Impact of growth drivers

Division	Key Drivers of Change	Short Term Growth	Mid-Long Term Growth
Semiconductor	Miniaturization, Legislation, China, Global Data Use, IoT	>	7
High Vacuum	Application Technology Leadership, Broader Product Portfolio, Digitalization	4	4
Industrial Vacuum	New Vacuum Applications, Energy Efficiency and Dry Pumps		7
Semiconductor Service	Global Manufacturing Capacity, Digitalization, Legislation	7	7
Vacuum Technique Service	Digitalization, Brand Management	7	7



## Summary focus, priorities and strategy

Agility and resilience





Opportunities in China

Growth in industrial vacuum





Integration of cryogenics business

Technology leadership





Service



#### Agility and resilience

#### Structure built for agility

Flexible and agile cost structure.

Additional 200 MUSD of cryo business with low overheads.

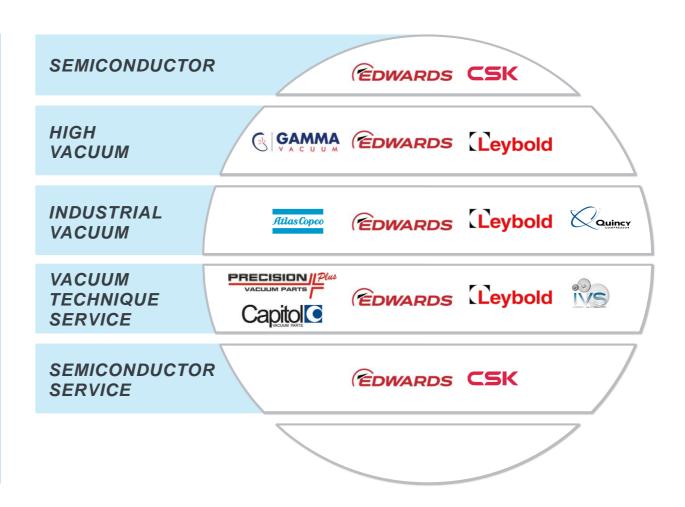
Adaptable workforce >20% temporary roles.

Agile supply chain.

Move from sellers to buyers market.

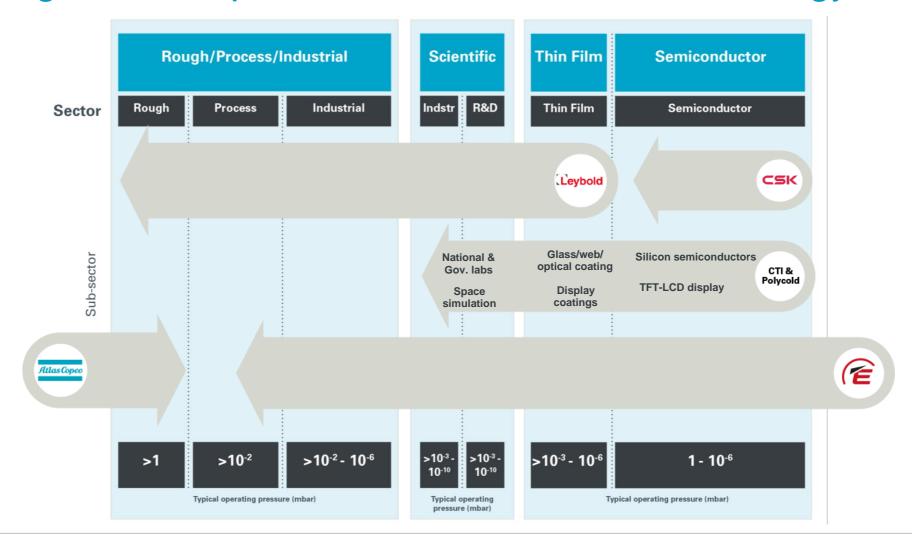
Strong development in both service divisions.

Agility without compromising strategy.





#### Becoming the undisputed leader in vacuum technology





#### **Brooks Cryogenic Business**

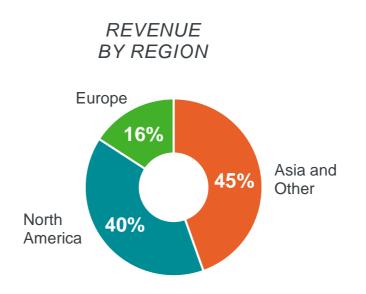
#### Leader in high value cryogenics solutions under two leading brands – CTI and Polycold

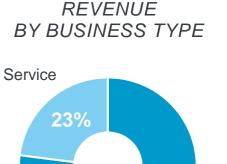
Extensive track record – 85,000+ CTI Cryopumps and 20,000+ Polycold chillers installed globally.

Market leader in Semiconductor – critical products in deposition and ion implant processes.

Used in a wide range of thin film and scientific applications.

50/50 JV with Ulvac Inc which produces cryopumps for flat panel display market.





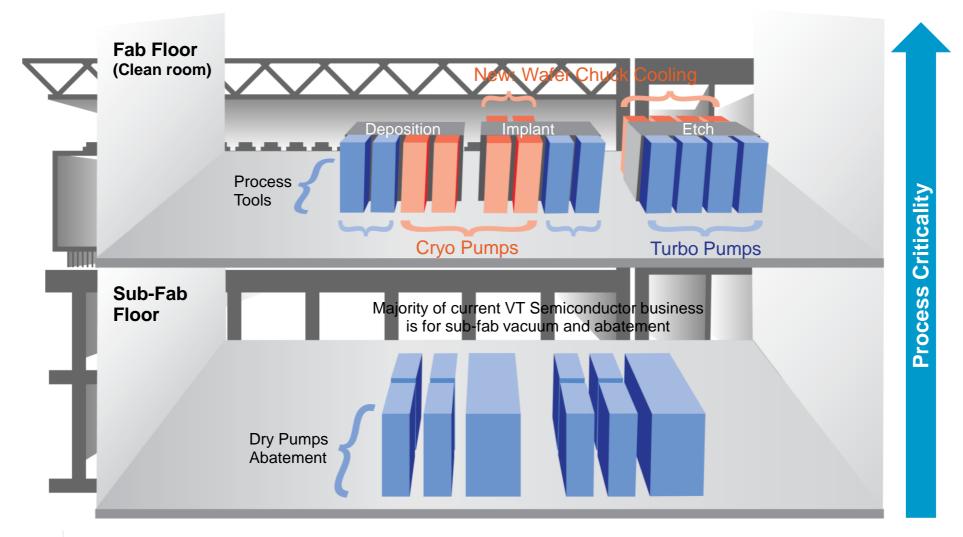
77%

**Products** 



## Cryo Technology: Increasing footprint on Process Tool Chambers

#### Inside the Fab and Sub-Fab

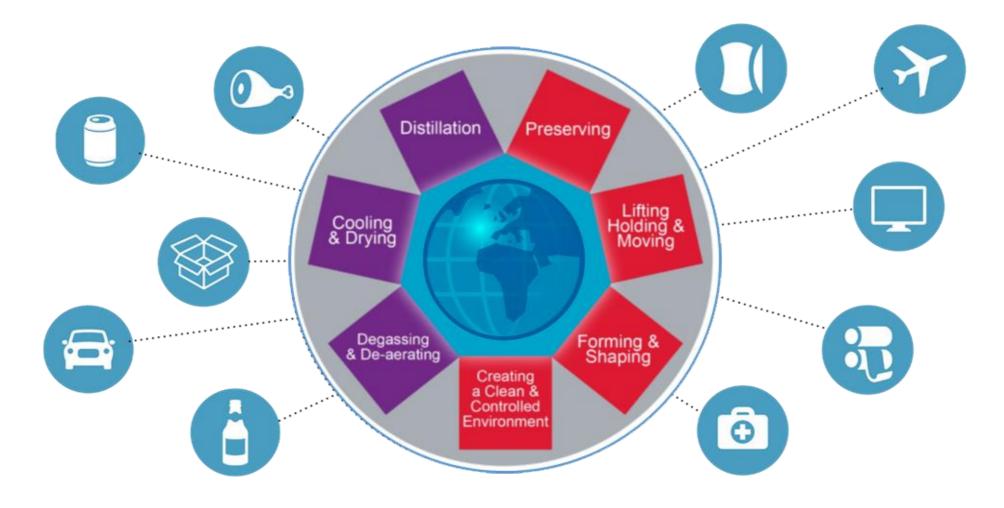








#### **Industrial Vacuum**





#### **Industrial Vacuum**

#### **New technologies market**

#### **Traditional markets (old products, traditional users)**





























#### Service

#### Two stable and growing service businesses

#### **Vacuum Technique Service**



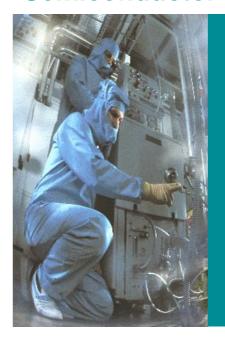
Share growth potential

Investing in presence

Merged Leybold and Edwards hubs; Plan to merge Cryo business hubs

Develop a Product Portfolio for proactive Service offerings

#### **Semiconductor Service**



Ongoing high fab utilization

Benefiting from huge growth of install base over last 5-years

Customer presence with >1,000 on-site service personnel

#### Innovative products to be launched in the coming months

# Next generation dry vacuum pump for harsh processes

- Harsher process capability
- Lower power
- Smaller footprint



iXHMk2



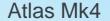


New dry screw vacuum pumps

# Revolution in liquid ring vacuum technology



LRP VSD+





Next generation abatement system



**Extended range EDS dry** screw pump technology



Innovation in

Easy operation – clean exhaust

Comfortable operation – low noise level

Easy integration – compact

vane technology

# Innovation in reality





#### Summary

Market share gain.

Growth through breakthrough innovative new products.

Very strong service growth through utilization and presence.

Excellence in **Brand Portfolio** management.

Clear divisional roadmaps driving towards strategic convergence and Sustainable Profitable Growth.

An integrated sustainable strategy.



# Atlas Copco

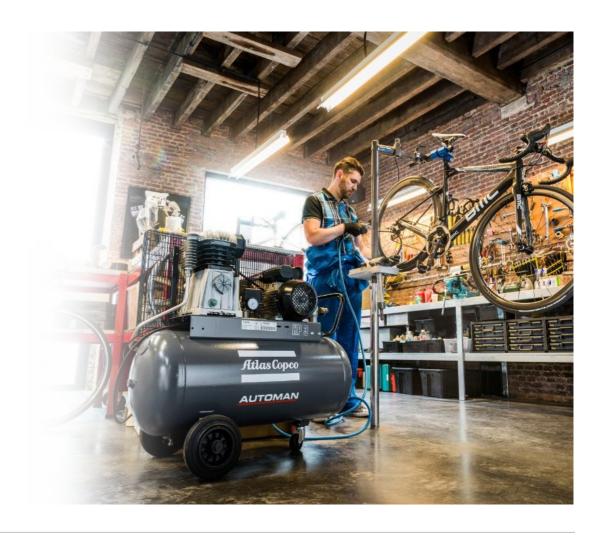
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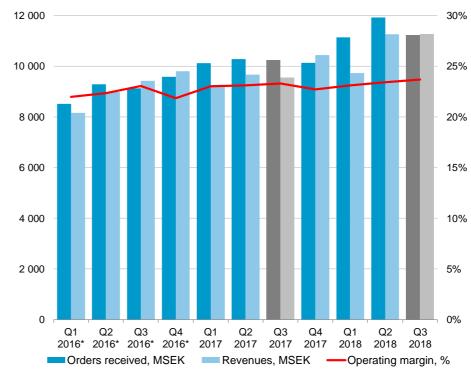
#### Compressor Technique

# ROCE 103%

#### Growth drivers

- Innovation
- Leverage investments in presence
- Service offer
- Further expand the core organically and with acquisitions
- Digital value creation
- People development

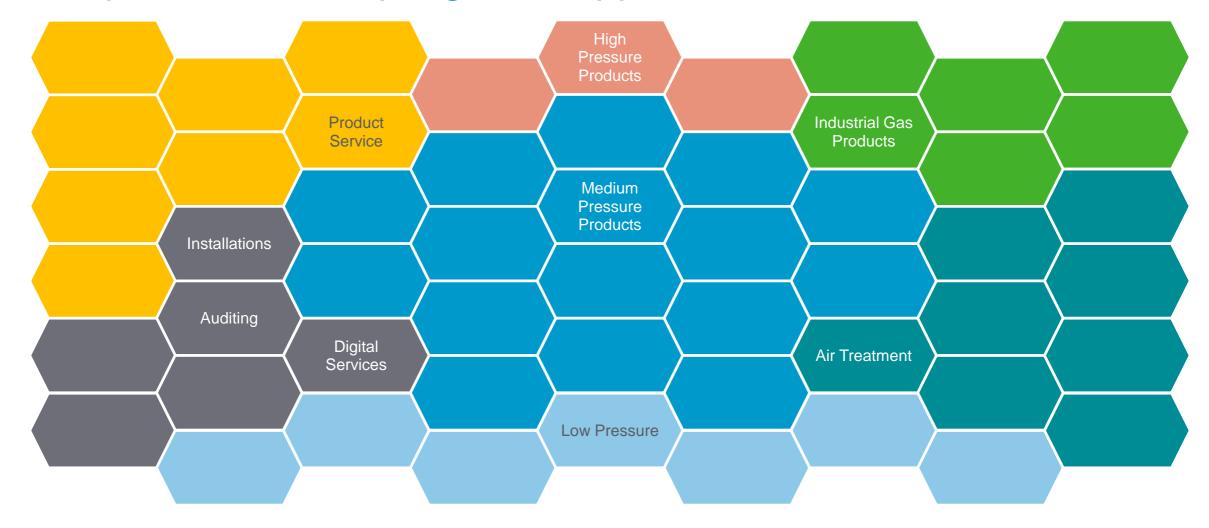
#### ORDERS, REVENUES AND OPERATING MARGIN



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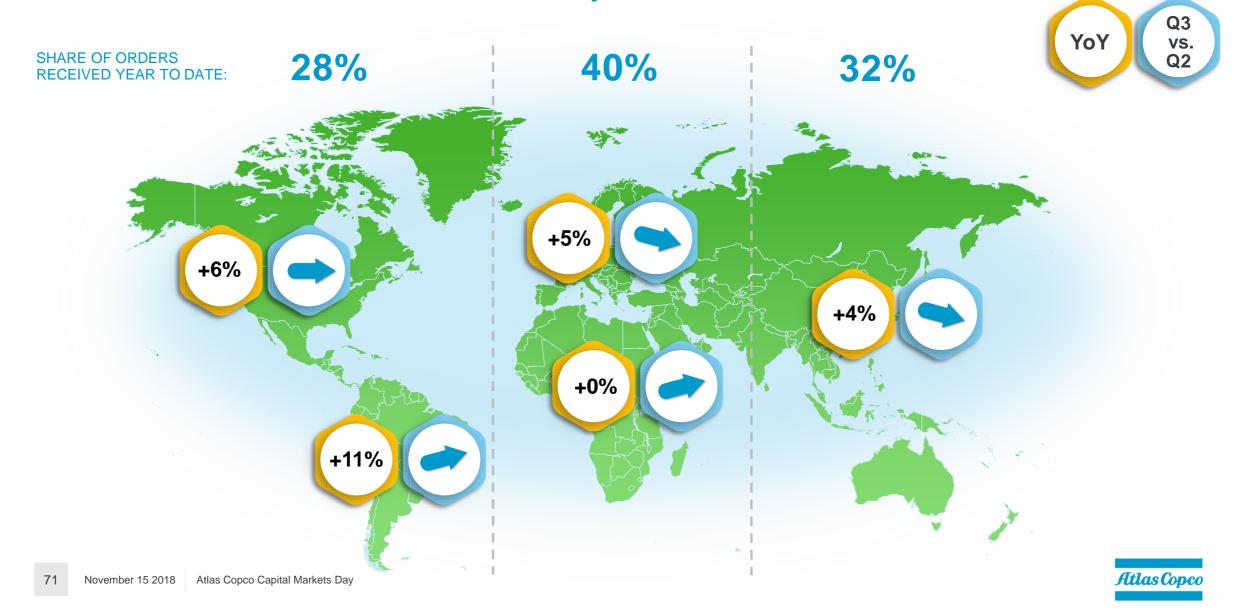


## Compressor Technique growth opportunities





# Orders received – local currency Q3 2018



## Compressor Technique – The People We Serve



## Compressor Technique – The Segments We Serve



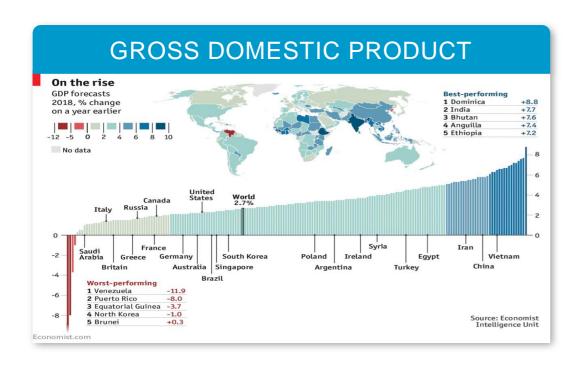
## Compressor Technique – The Applications We Serve

	Shot / Beed Blasting		Plastic Forming		Workshop Tools	
Reverse Jet Looms	Laser Cutting	Agitation	Grinding Tools	Pneumatic Conveying	Air Brakes	
Humidification	Aeration	Cleaning	Air Separation	CO <sub>2</sub> Recovery	Robotics	
Bubble Barriers	Aeration	Pneumatic Machinery	All Separation	Industrial Assembly Tools	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Fire Suppression	Insect Control	Marine Engine Starting	Gas Expansion	Instrumentation	Cooling	
<b>\</b>	Pneumatic Valves	<b>\</b>	Nitrogen Packaging	Reverse Jet	LNG Liquification	
Drying <	Bottle Blowing	Climate Control	Spraying	Filters	Surgical Tools	
Process Gas Compression		Tire Filling		Breathing Air		

## Compressor Technique – The Solutions We Provide



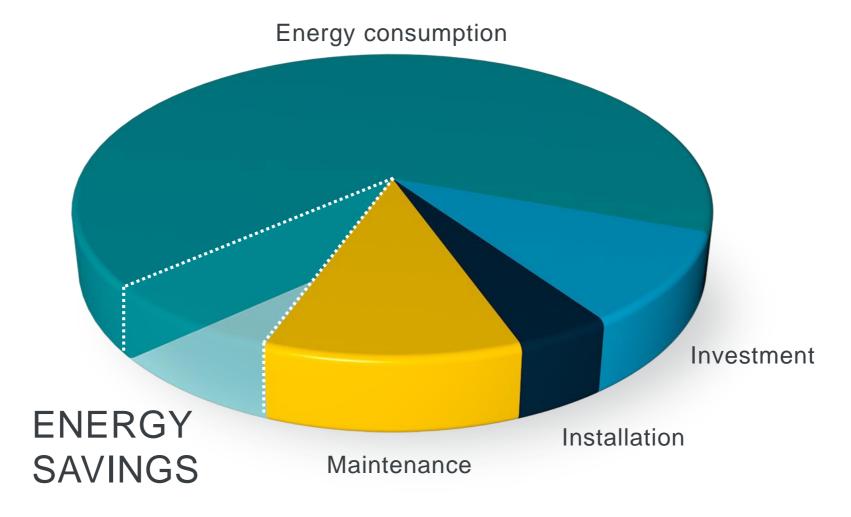
## Trends and driving forces





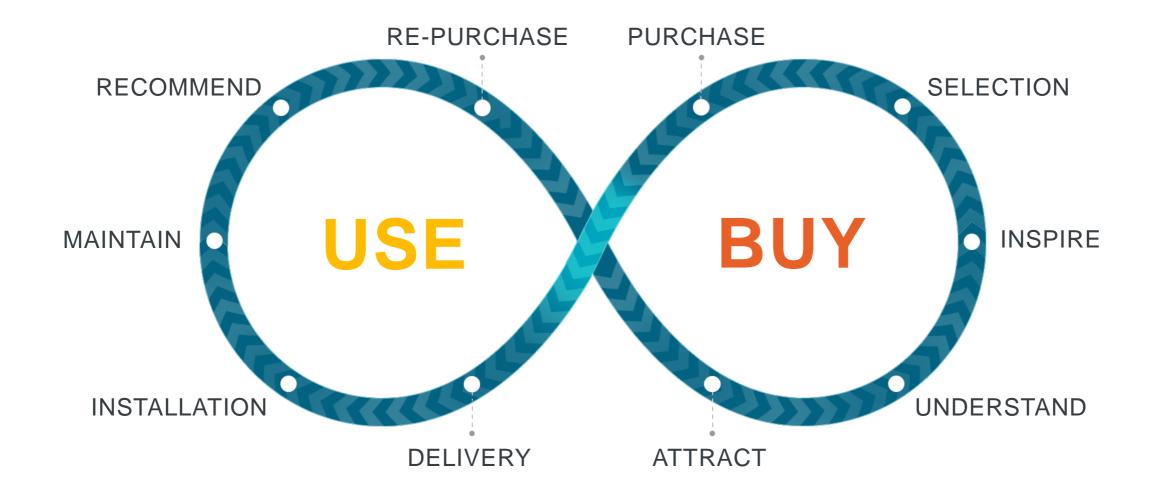


## Trends and driving forces



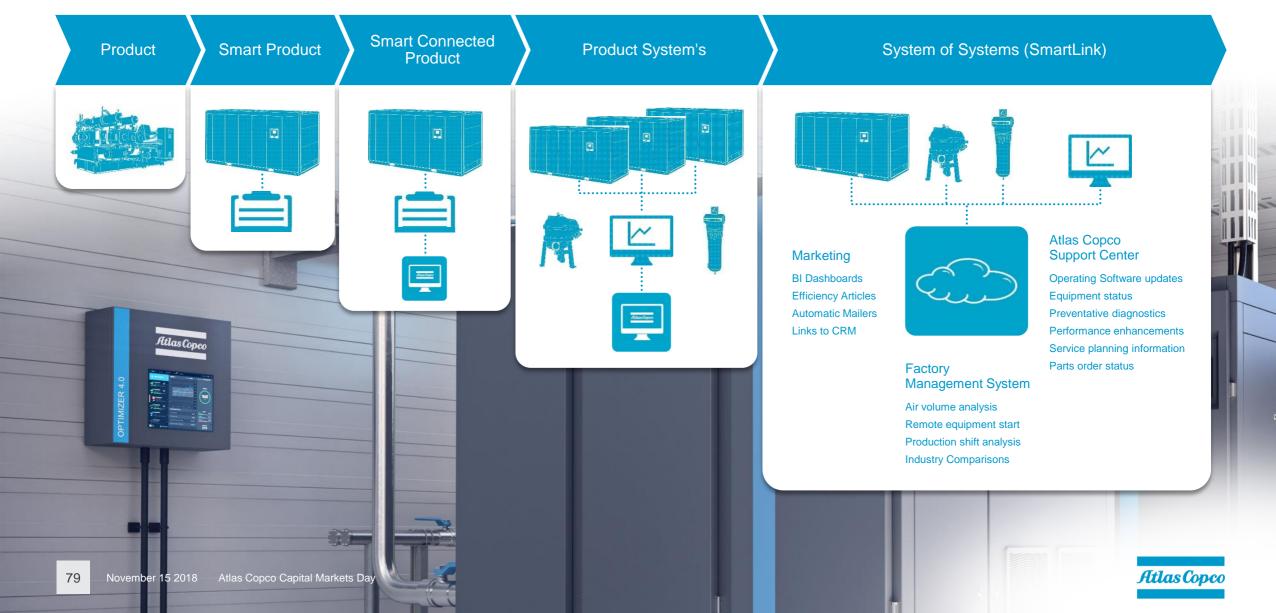


## Focus and priorities





## System Digitalization Industry 4.0



## Market opportunity





## **Product Developments**

#### **New Ranges**

Piston Compressors





-40 °C Drum Type Dryers



System Controllers



High Pressure Pistons



Medium Pressure Centrifugal







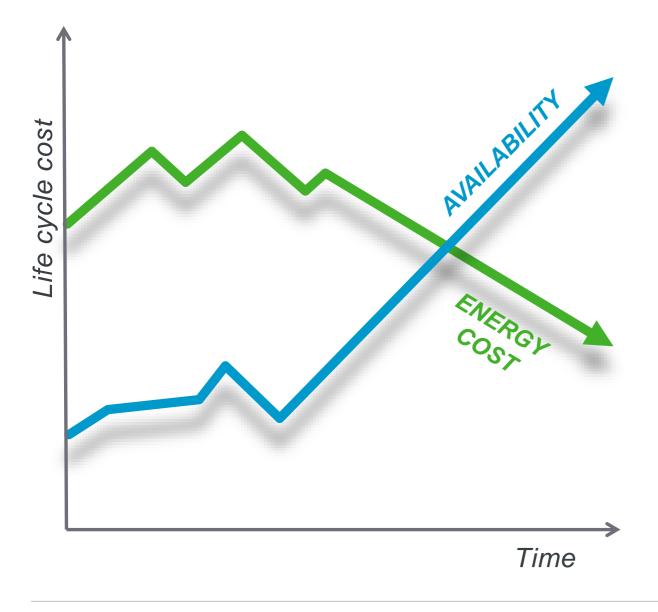
Medium Pressure Oil Injected Screw





## Innovation in reality





### ZR90-160 VSD+





### **Product Developments**

**KEY FOCUS AREAS** 

**Increased Energy Efficiency** 

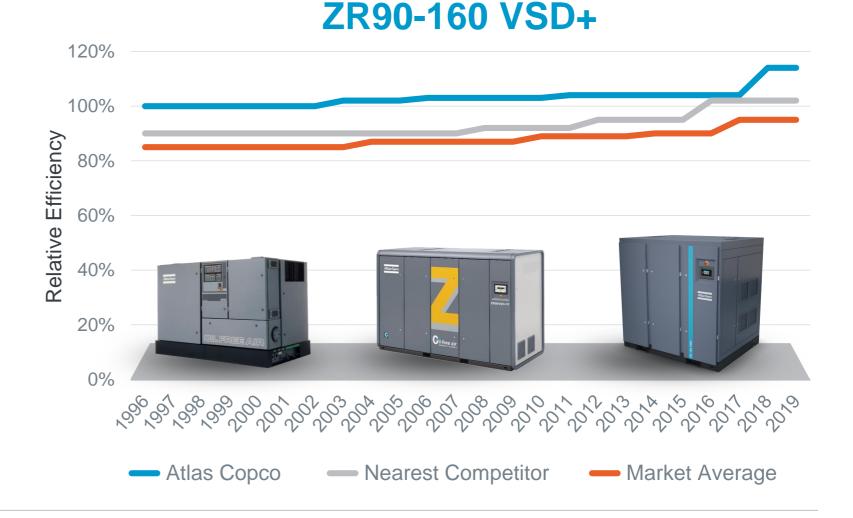
**Increased Control** 

**Increased Reliability** 

**Easier To Install** 

**Easier to Service** 

**Improved Monitoring** 



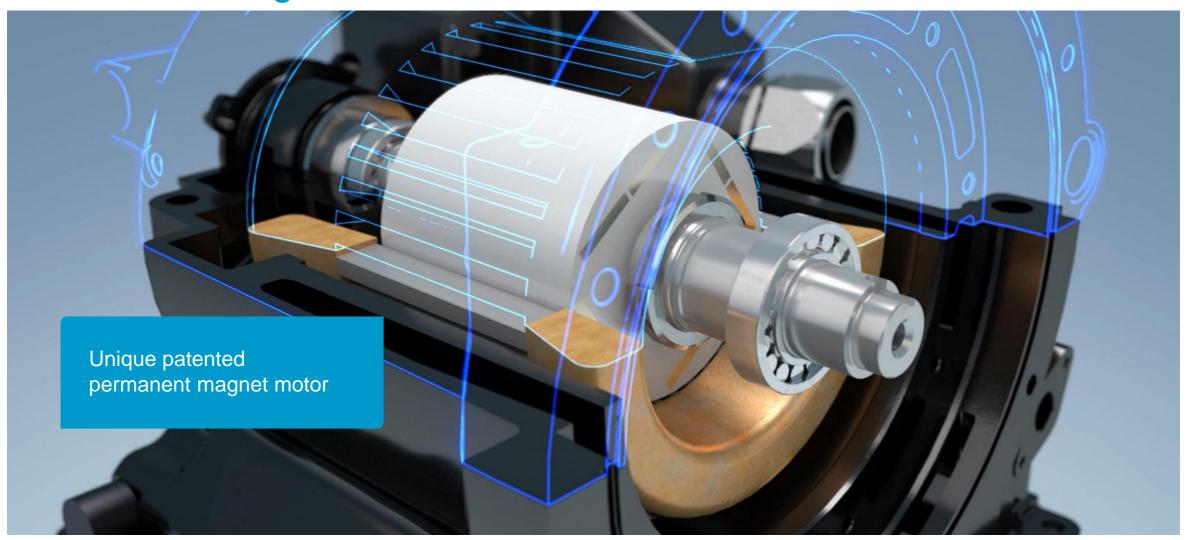


### New element





## Permanent magnet motor





### Two Neos drives





### ZR 90 - 160 VSD





### Environmental savings



11.2

45%

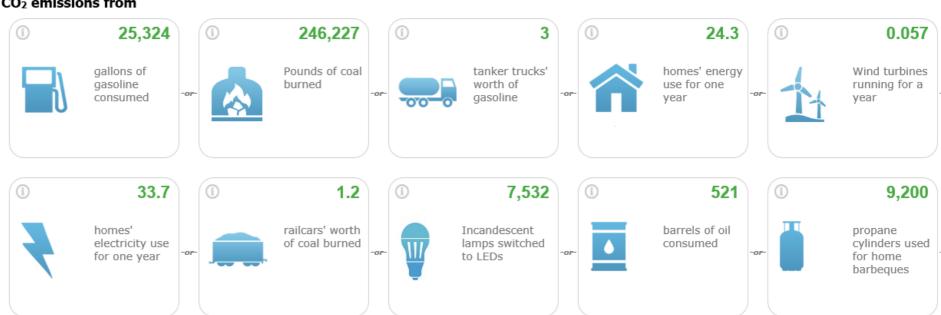
energy saving =

302,400 kWh of electricity or carbon dioxide reduction of 225 metric tons

#### Greenhouse gas emissions from



#### CO<sub>2</sub> emissions from





## Summary – Compressor Technique





# Atlas Copco

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## Agenda

- Atlas Copco One Group
- Performance review
- How we create value and grow
- Summary





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## The Atlas Copco Group – Brand

The home of industrial ideas

The ho COMMITMENT Atlas Copco **INNOVATION INTERACTION** 



## The Atlas Copco Group – Customers





## The Atlas Copco Group – Technology





## The Atlas Copco Group – Culture





### The Atlas Copco Group – Leadership





## Organization

#### **BOARD OF DIRECTORS**

#### PRESIDENT AND CEO

#### **GROUP MANAGEMENT**

BUSINESS AREAS AND CORPORATE FUNCTIONS

#### **COMPRESSOR TECHNIQUE**

- Equipment and service
- 7 divisions
- 136 Customer centers
- 5 Distribution centers
- 36 Product companies

#### **VACUUM TECHNIQUE**

- Equipment and service
- 5 divisions
- 94 Customer centers
- 3 Distribution centers
- 14 Product companies

#### **INDUSTRIAL TECHNIQUE**

- Equipment and service
- 5 divisions
- 77 Customer centers
- 4 Distribution centers
- 20 Product companies

#### **POWER TECHNIQUE**

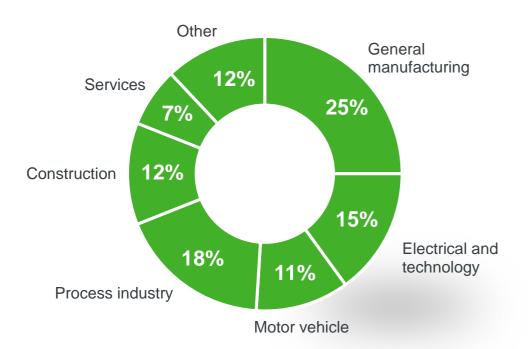
- Equipment, service and specialty rental
- 4 Divisions
- 77 Customer centers
- 4 Distribution centers
- 10 Product companies

Divisions generally conduct business through product companies, distribution centers and customer centers

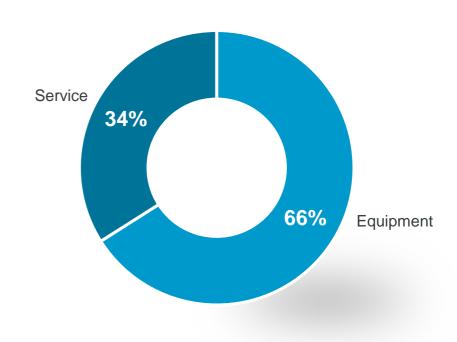


### A diversified business

## ORDERS RECEIVED BY CUSTOMER CATEGORY



#### REVENUES BY BUSINESS TYPE



12 months ending September 2018



## Agenda

- Atlas Copco One Group
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- 3 How we create value and grow
- Summary



## January – September in brief

- Solid order growth
  - Particularly strong growth in North America and Europe
  - Firm organic growth for Compressor Technique, Industrial Technique and Power Technique
  - Vacuum Technique down due to lower semiconductor investments
- Good profitability in all business areas
- Steady operating cash flow, in spite of growth
- Successful spin-off of Epiroc

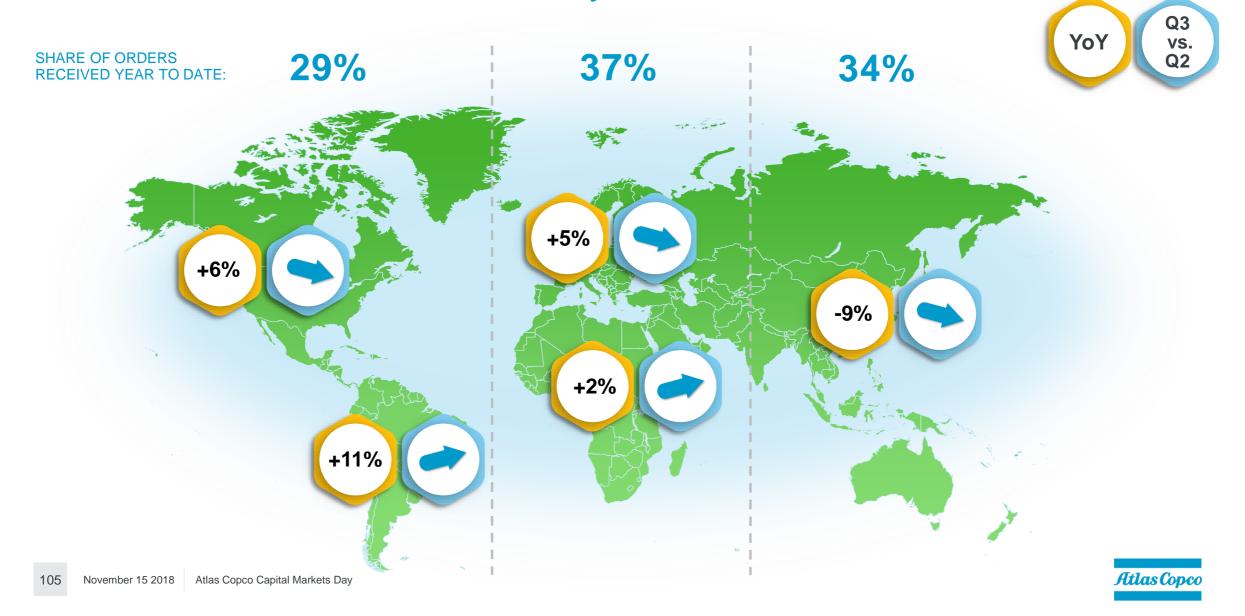


## Q3 2018





## Orders received – local currency Q3 2018



### Near-term outlook

The customer demand is expected to be somewhat lower, mainly due to the semiconductor and automotive industries.

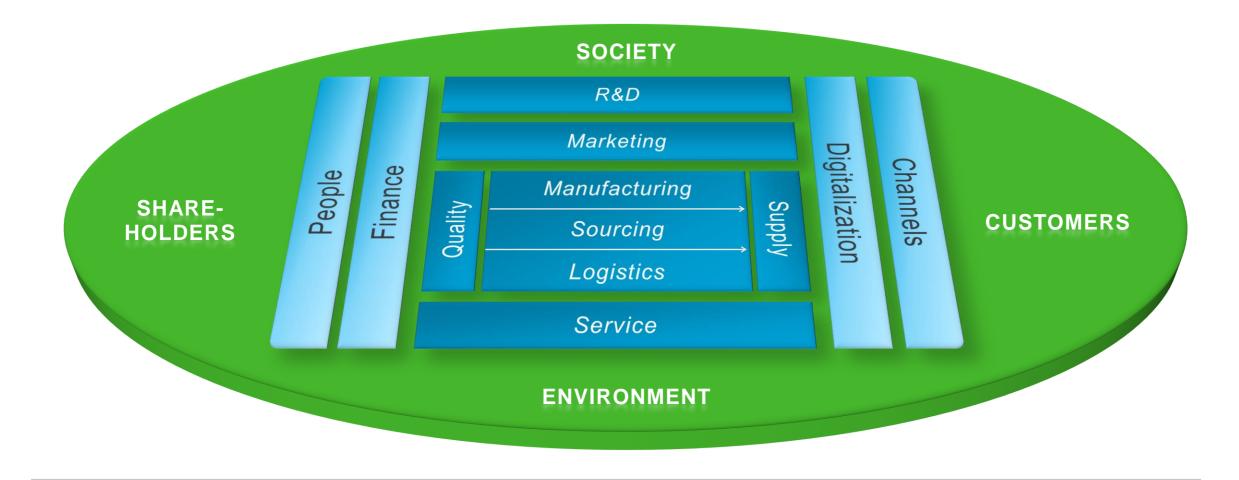


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### Value for all stakeholders





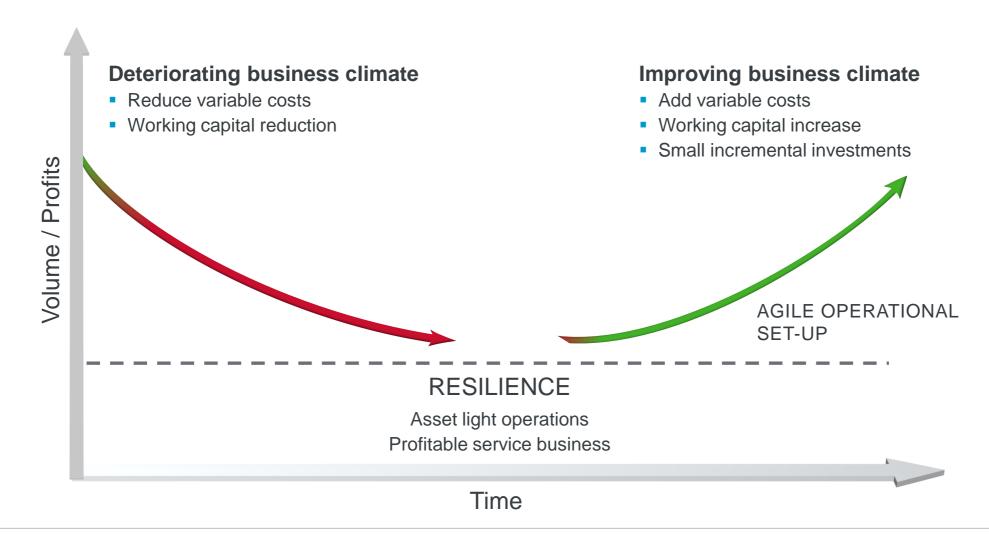
#### How we do business – Innovation across the value chain

- Leading positions in our defined markets
- Leading, differentiated technology
- Key products in customers' operations
- Smaller part of customers' investment
- Healthy service potential
- Balance sheet agility



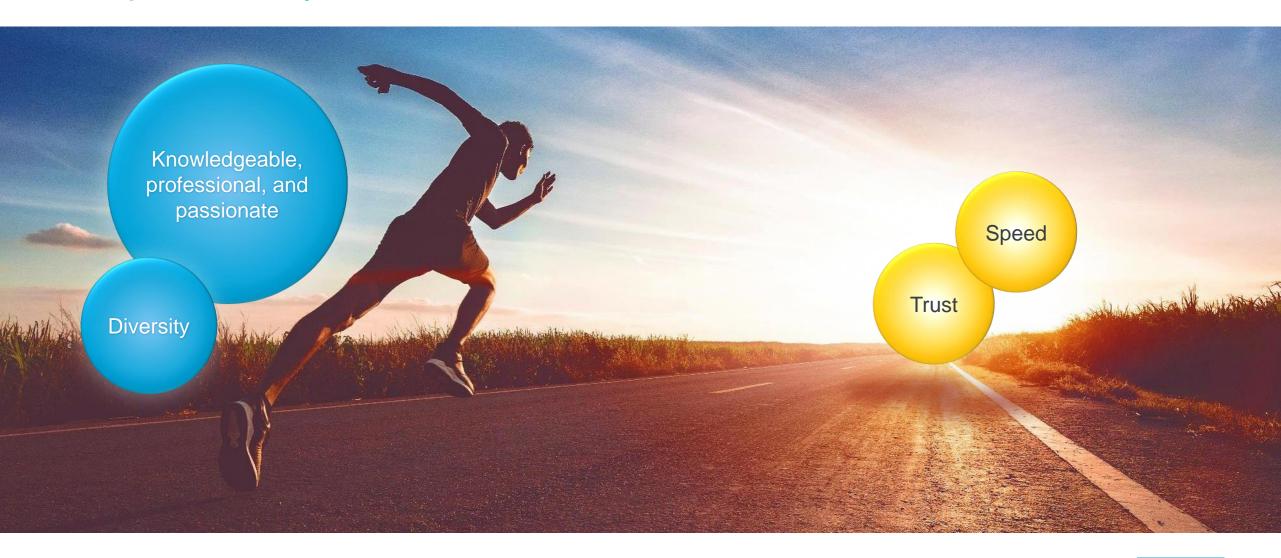


## Agility and resilience





## People are key





Passionate people create exceptional things The one closest Clarity in mission and expectations creates freedom to develop to the problem, is and implement our visions and strategies the one closest to the solution Freedom with accountability Ownership and clarity in roles and responsibilities



## Our management team

Strong international experience

Internal and external expertise

Be the Atlas Copco culture in all aspect



**Mats Rahmström** 



**Henrik Elmin** 



Håkan Osvald



Vagner Rego



**Andrew Walker** 



**Gisela Lindstrand** 



**Geert Follens** 



**Cecilia Sandberg** 



**Hans Ola Meyer** 

IN TOTAL:

47 years of international experience

**79** years of external experience in diverse businesses

**190** years in Atlas Copco



#### Presence



## Digitalization









## Our targets

**PROFIT** 

**▶** Revenues

8% average growth per year over a business cycle

**▶** Returns

Sustained high return on capital employed (ROCE)

Cash dividend

50% of net profit in annual dividend

**PEOPLE** 

























**PLANET** 







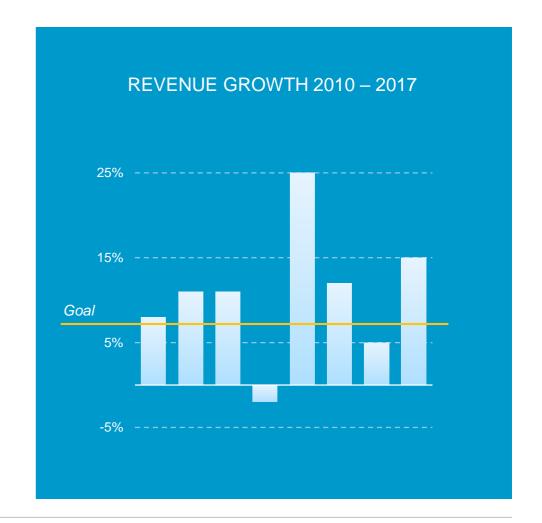




Reused, recycled and recovered waste

## Foundation for continuous growth

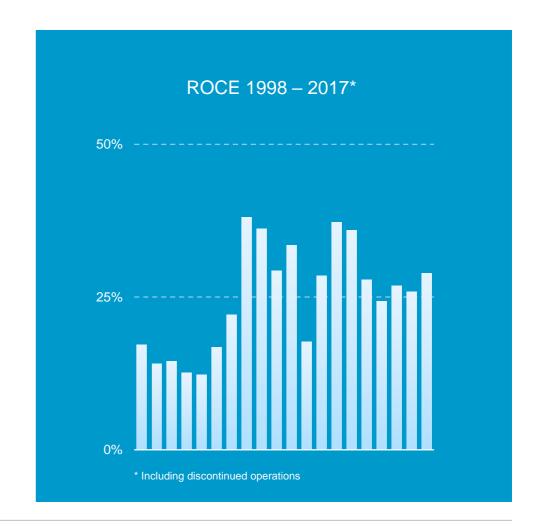
- Market leader with a strong portfolio of businesses and products
- Commitment to innovation
- Top organization, world-class people, and top execution
- Strong service offering
- Capacity for strategic acquisitions
- Digitalization embedded in everything





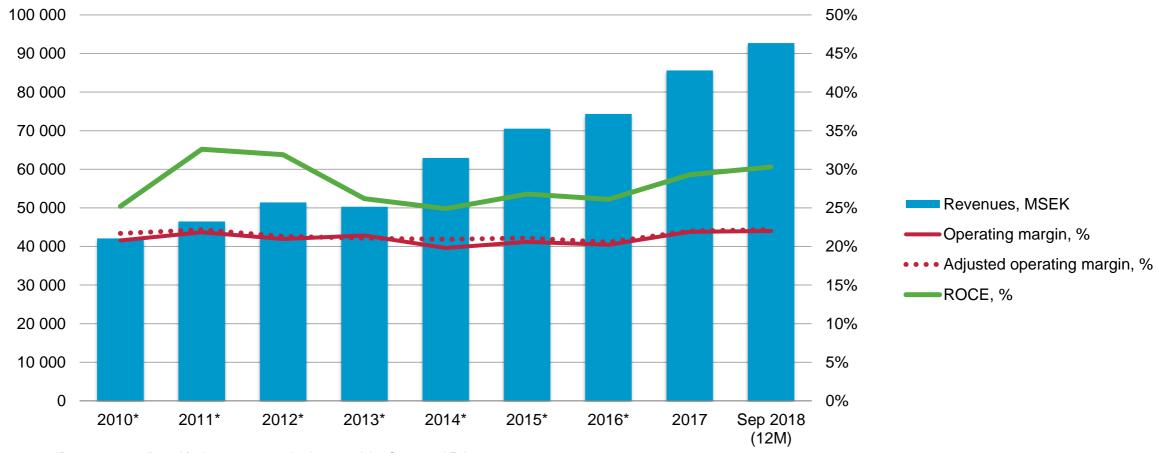
## Foundation for continuous high return on capital employed

- Standardization and efficient flow
- Asset light operations
- Variable cost structure
- Strong service business
- Digitalization embedded in everything





## Growth and strong profitability

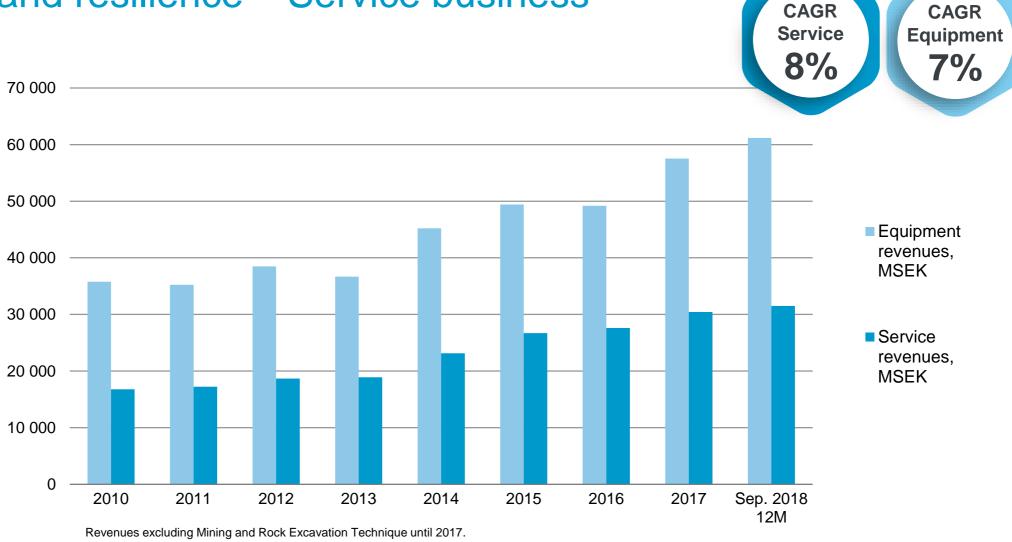


<sup>\*</sup>Revenues not adjusted for intercompany sales between Atlas Copco and Epiroc.

Operating margin and ROCE are estimated excluding the Mining and Rock Excavation Business Area and Road Construction Equipment division.

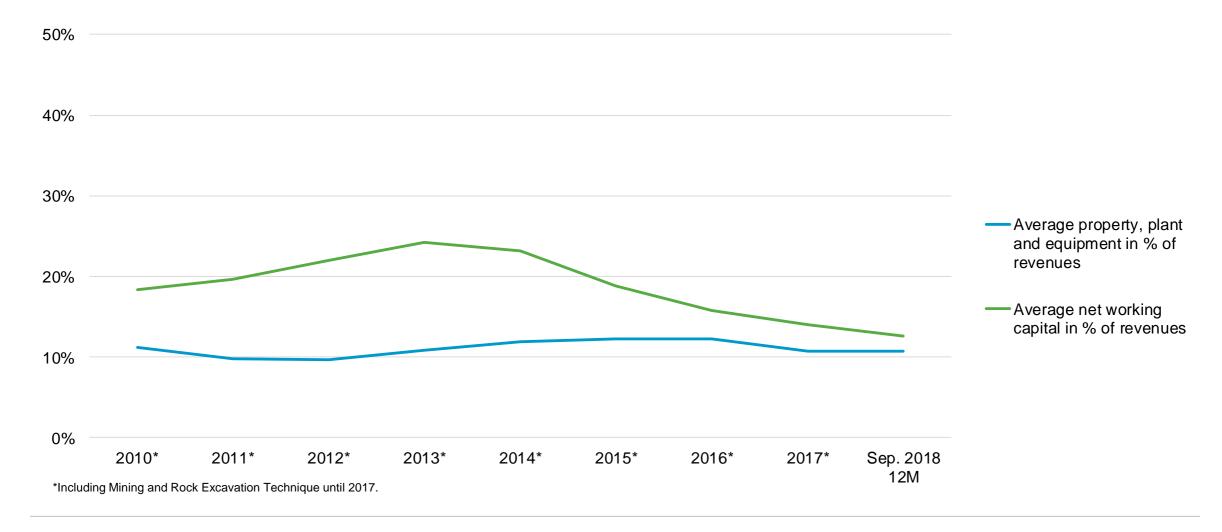


#### Growth and resilience – Service business



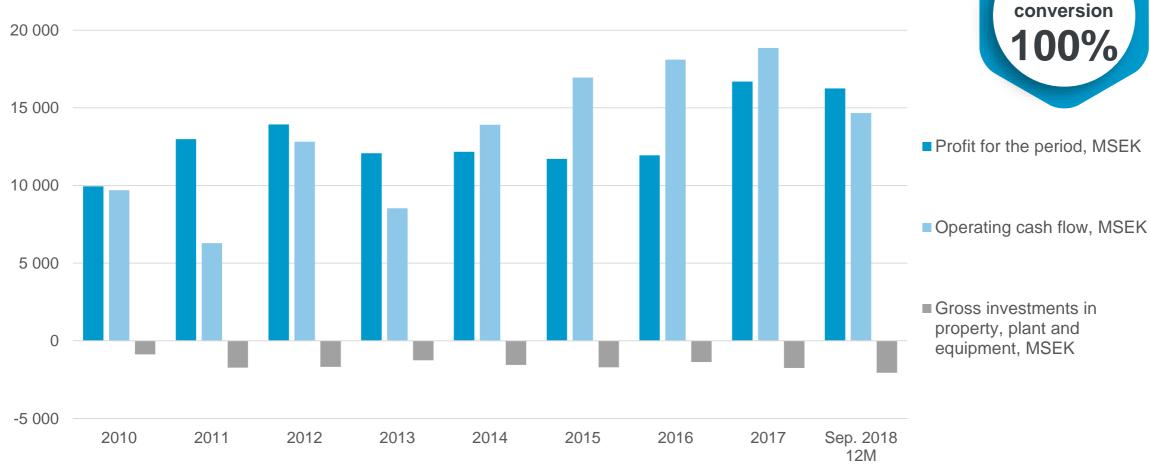


## Growth and resilience – Asset light





## Growth and resilience – Cash generation



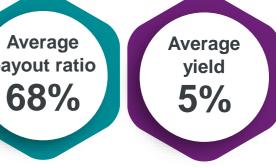
Including discontinued operations. Profit for the period "Sep. 2018 12M" is excluding the capital gain related to the distribution of Epiroc.

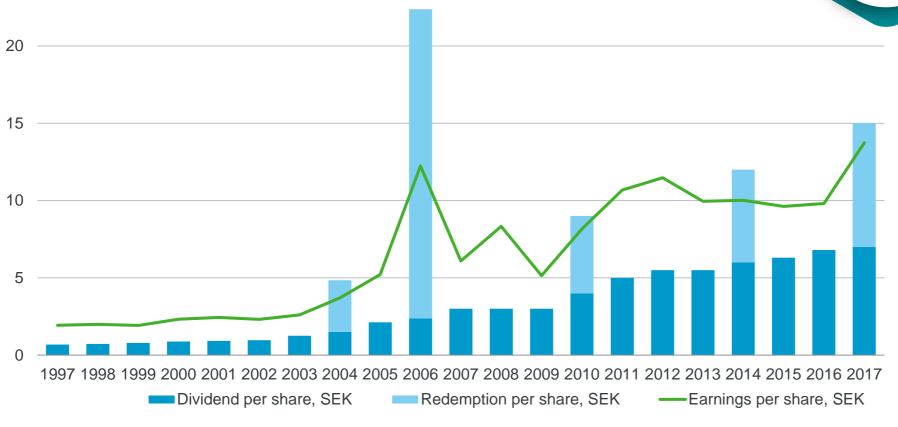


Average cash

### Growth and resilience - Cash distribution









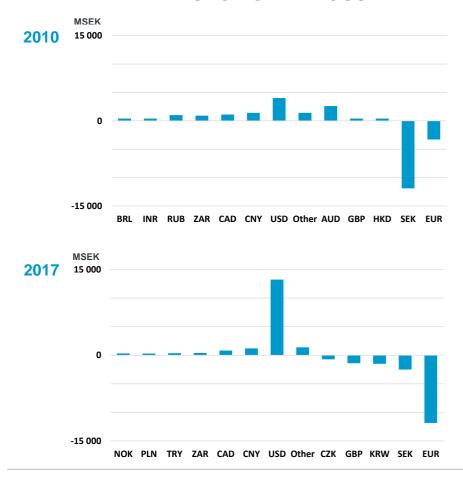
## Regional growth development – from 70 to 93 BSEK





## Currency

## ESTIMATED OPERATIONAL TRANSACTION EXPOSURE



#### **CURRENCY INDEX**





## Impact of tariffs

**Estimated cost impact:** MUSD 15 per year

Majority of impact is on supply from Atlas Copco China to Atlas Copco US

 The main mitigating actions include changed sourcing countries and price increases



## Impact of "hard" Brexit

Estimated cost impact: MUSD 13 per year

- The direct cost impact is mainly related to tariffs on goods moving in and out of the UK
- Other costs relate to:
  - One to two days longer lead time due to border controls
  - Additional personnel resources to handle issues with VAT, trade compliance, and logistics
  - Build up of safety stocks

Over time a slower GDP growth in the UK is expected



## Agenda

- Atlas Copco One Group
- Performance review
- 3 How we create value and grow
- Summary

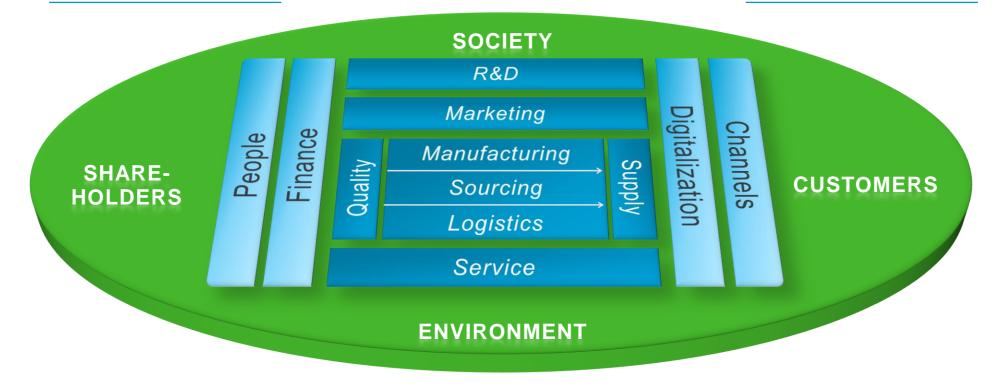


#### Value for all stakeholders

Identify and "own" profitable niches

Use our core competencies to develop the niches

Top execution through a decentralized leadership model





# Atlas Copco

www.atlascopcogroup.com



## **Cautionary 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 and adversely affected by other factors such as the effect of economic conditions, exchange-rate and interest-rate movements, political risks, the impact of competing products and their pricing, product development, commercialization and technological difficulties, supply disturbances, and major customer credit losses."

