

Outotec

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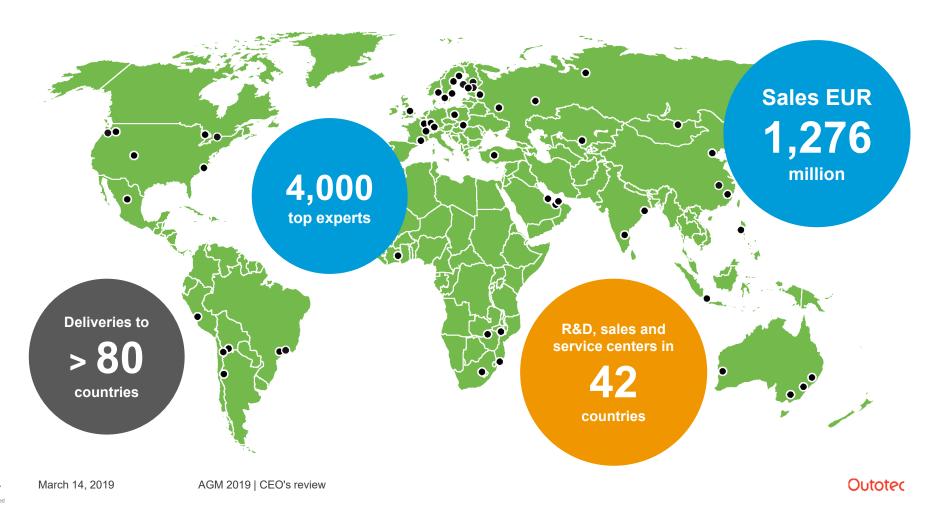
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# Leading technologies are our core strength

- R&D centers in Pori, Frankfurt and Lappeenranta
- Cooperation with over 30 universities and research institutes
- Some results of our R&D in 2018:
  - · Lithium hydroxide process
  - Hybrid ceramic filter plates to improve filtration capacity
  - Digital Optimizer product family for optimizing the production process and ensuring uniform product quality
  - Modular prefabricated sulfuric acid plant
- R&D investments totaled EUR 57 million, equaling 5% of sales in 2018



# Global operations and local presence



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## Our commitment to sustainability

#### SUSTAINABLE TECHNOLOGIES AND INNOVATIONS

90% of order intake represent Environmental Goods and Services according to OECD's criteria

**6.2** million tonnes sulfur dioxide emissions avoided through use of Outotec technologies in 2018

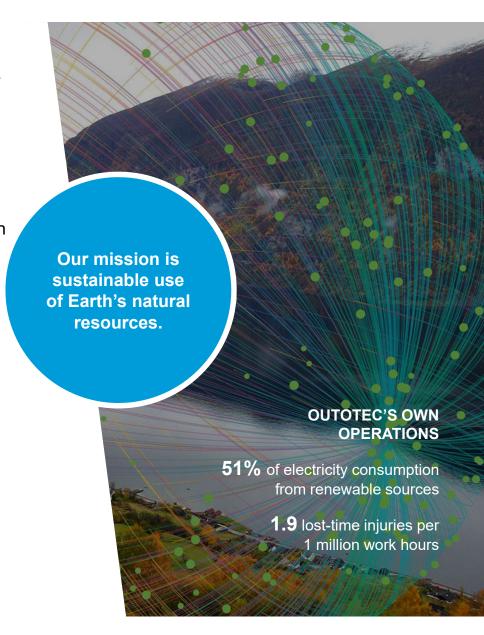
#### **TOP INDUSTRY EXPERTS**

**4,000** top industry experts contribute to the success of our customers and are driven by their unique challenges

**72** nationalities work for Outotec

#### **RESPONSIBLE SUPPLY CHAIN**

on the Global 100 list of the world's most sustainable companies



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### Significant progress in several areas in 2018

#### Significant business growth

- Order intake increased 4% (with comparable currencies 8%)
- Sales grew 12% (with comparable currencies 16%)

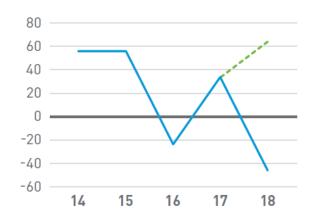
Availability of spare and wear parts improved in the service business

• Service sales grew 3% (with comparable currencies 9%)

Minerals Processing further improved its profitability (adjusted EBIT 11%)

Customer satisfaction clearly improved

#### **ADJUSTED EBIT\*, EUR MILLION**

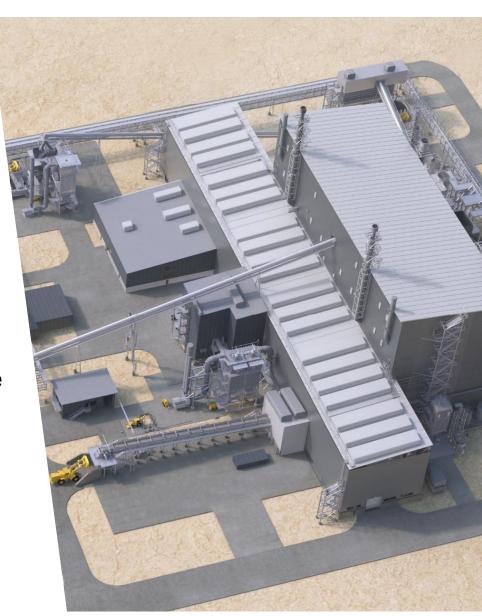


---- aEBIT excluding ilmenite smelter provision

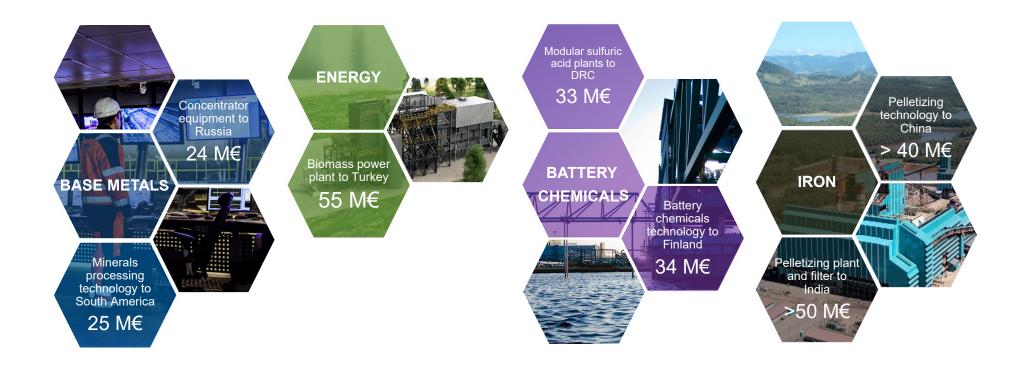
<sup>\*</sup> excluding restructuring and acquisition-related items as well as PPA amortizations

# Analysis of the ilmenite smelter is progressing

- A team consisting of Outotec's, customer's and third-party experts, altogether 40 people, are investigating the furnace in Saudi Arabia.
- The investigations and negotiations with the customer have progressed well.
- A provision of EUR 110 million was made after careful consideration diligently and booked in the result of Q4/2018.



# Largest orders in 2018



### Financial results of 2018

EUR million	2018	Change from 2017, %	Change with comparable currencies, %
Sales	1,276	12	16
Service sales	497	3	9
Share of services in sales, %	39		
Adjusted EBIT 1, 2	-46		
Adjusted EBIT, % <sup>1, 2</sup>	-4		
EBIT	-66		
EBIT, %	-5		
Result for the period	-67		
Net cash from operating activities	70		

<sup>&</sup>lt;sup>1</sup> Excluding restructuring and acquisition-related items as well as PPA amortizations.

<sup>&</sup>lt;sup>2</sup> aEBIT for the full year was EUR 63.8 million (5.0%) excluding the provision for the ilmenite smelter project.

# Good progress in Minerals Processing – service sales improved profitability

Minerals Processing EUR million	2018	Change, %	Change in comp. currency, %
Order intake	719	-1	4
Sales	758	13	19
Service sales	344	13	20
Adjusted EBIT *)	84		
Adjusted EBIT *), %	11		

Sales and adjusted EBIT development by quarter

Sales and adjusted EBIT development by quarter

Sales and adjusted EBIT development by quarter

15%
10%
5%

02/2012 02/2012 02/2012 02/2013 02/2013 02/2013 02/2014 02/2014 02/2015 02/2015 02/2016 02/2016 02/2016 02/2017 02/2017 02/2017 02/2017 02/2017

<sup>\*</sup> Excl. restructuring and acquisition-related costs as well as PPA amortizations

# Solid order intake and sales development, ilmenite smelter project provision impacted profitability in Metals, Energy & Water

Metals, Energy & Water EUR million	2018	Change, %	
Order intake	532	11	15
Sales	519	9	12
Service sales	152	-13	-10
Adjusted EBIT <sup>1, 2</sup>	-125		
Adjusted EBIT, %	-24		



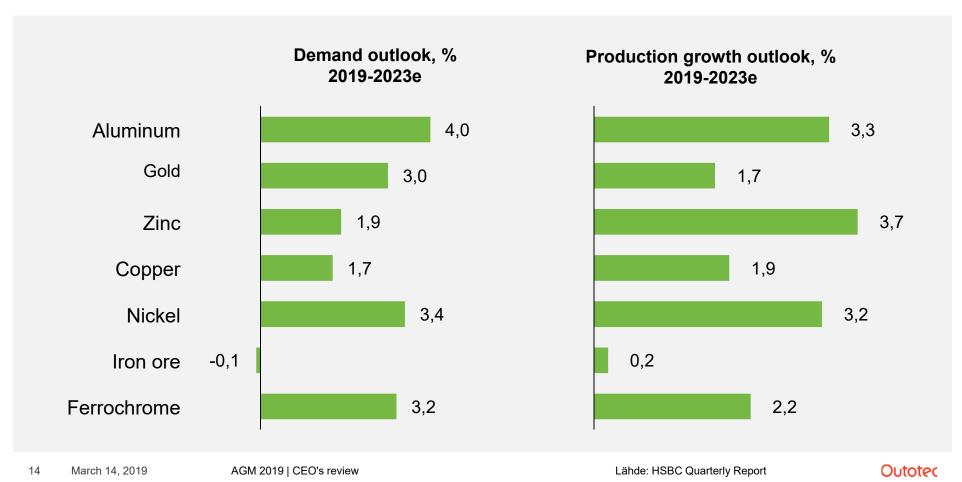
<sup>&</sup>lt;sup>1</sup> Excl. restructuring and acquisition-related costs as well as PPA amortizations.

<sup>&</sup>lt;sup>2</sup> aEBIT for the full year was EUR -15.0 million (-2.9%) and Q4/2018 EUR 2.1 million (1.7%) excluding the provision for the ilmenite smelter project.

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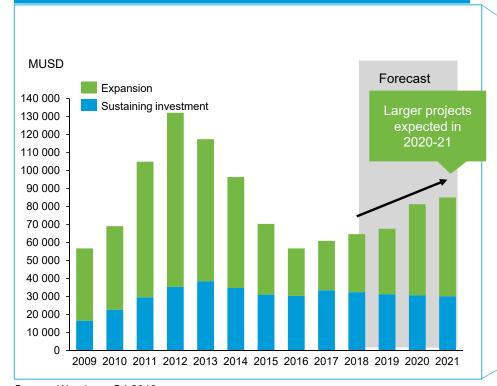
## Metals demand outlook support new investments



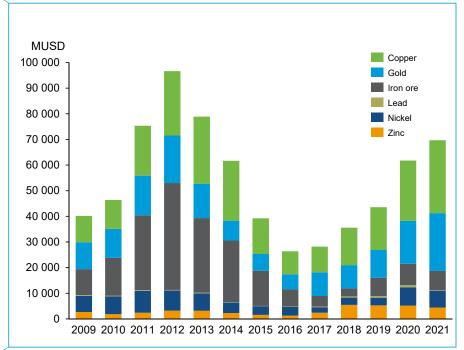
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### Investments are expected to increase

Total capex investments for copper, gold, iron ore, lead, nickel and zinc (mines only)



Expansion capex investments by commodity: copper and gold expected to lead the growth

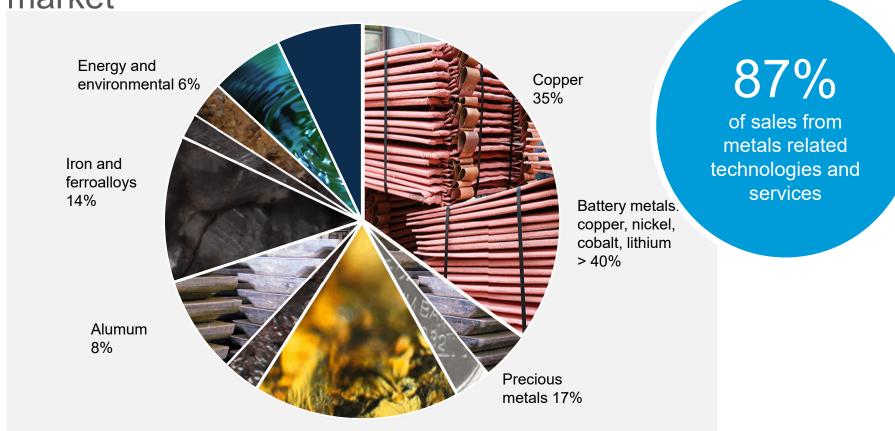


Source: Woodmac Q4 2018

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Outotec well positioned to meet the growth of metals market



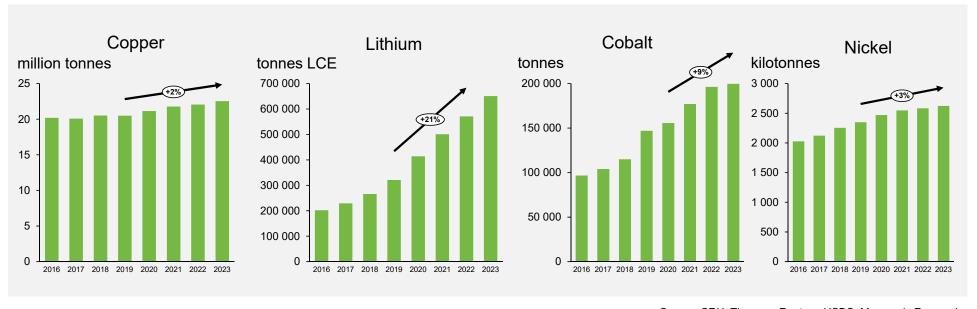
# Electric vehicles driving the demand for battery metals

- Rapid increase of electric vehicles drive the demand of battery metals and the development of related technologies
- Cathode is the most important part in batteries, as it stores the energy needed in electric motors
- Most cathodes include cobalt, lithium and nickel in varying amounts



# EV's the most significant driver of the demand for battery metals

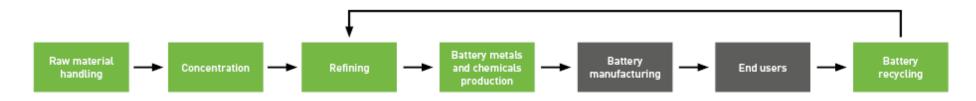
#### **Expected CAGR**



Source: CRU, Thomson Reuters, HSBC, Macquarie Research

Outotec

Outotec is well positioned in the growth market for battery metals and technologies



- Outotec's technologies are suitable for processing all battery metals from ore to refined metal and raw material for the battery industry
- We deliver technology to most of the ongoing lithium projects
  - AMG (Brazil), Keliber (Finland), other projects (Australia, South America)
- We are participating in preparing the European wide research relating to EV battery raw materials and battery recycling

Innovative process for producing lithium hydroxide for battery industry

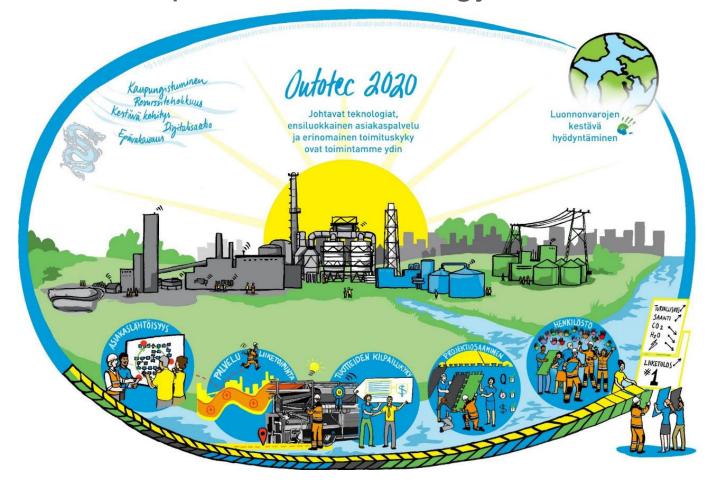
- Production without intermediate products
- Technology is ready for commercial use, patent application submitted
- Developed and piloted with Critical Elements (Canada) and Keliber (Finland)



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# We continue to implement our strategy



#### Achievements in our focus areas



**Customer focus** 

Customer satisfaction improved remarkably



**Service business** 

Faster quotation lead times and delivery handling



Product competitiveness

Productization reduced engineering hours and improved quality



**Project excellence** 

Improved risk management and project control



Our people

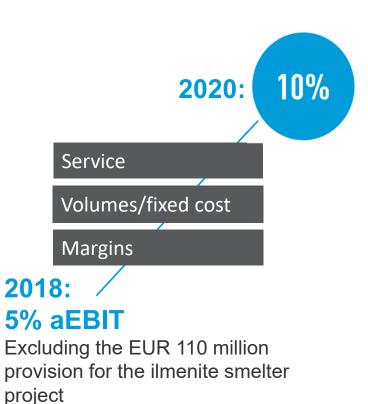
New values, training program for sales, service business and project managers



## By 2020 we aim to achieve the following targets

- Sales growth faster than the market
- Annual average service sales growth over 10%
- Profitability (aEBIT) 10% of sales by 2020
- Gearing at maximum 50%

We aim to grow volumes while containing fixed cost and improve margins through product competitiveness and project excellence.



## Outotec's Executive Board





Mari Tuominen-Reini Senior Vice President, Sourcing & Manufacturing as of August 19, 2019 at the

**Tomas Hakala** Services

Olli Nastamo Kaisa Aalto-Luoto Operational Human Resources & Excellence Communications

Kimmo Kontola Minerals Processing

Gustav Kildén Strategic Customers & **Business Development**  Markku Teräsvasara Nina Kiviranta CEO

Legal, Contract Management & Corporate Responsibility

CFO

Jari Ålgars Kalle Härkki Metals, Energy & Water

Outotec March 14, 2019 AGM 2019 | CEO's review

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# Largest orders in Q1 / 2019



#### Solid market outlook



Service opportunities

March 14, 2019



Declining ore grades and complex ores

new technologies | digitalization | tailings management



New uses such as EVs support longterm view



Water scarcity is a concern and cost factor

solutions for reducing freshwater consumption | purification of wastewater



Emission trading schemes, tightening regulation and social license to operate

energy efficiency | emission reduction | gas handling and gas cleaning | recycling

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## Financial guidance for 2019

Based on the current market outlook, we expect our sales to increase, and our aEBIT\* to increase significantly from the 2018 aEBIT (EUR 63.8 million) without the provision for the ilmenite smelter project.

\*Excluding restructuring- and acquisition-related items, as well as PPA amortizations.





