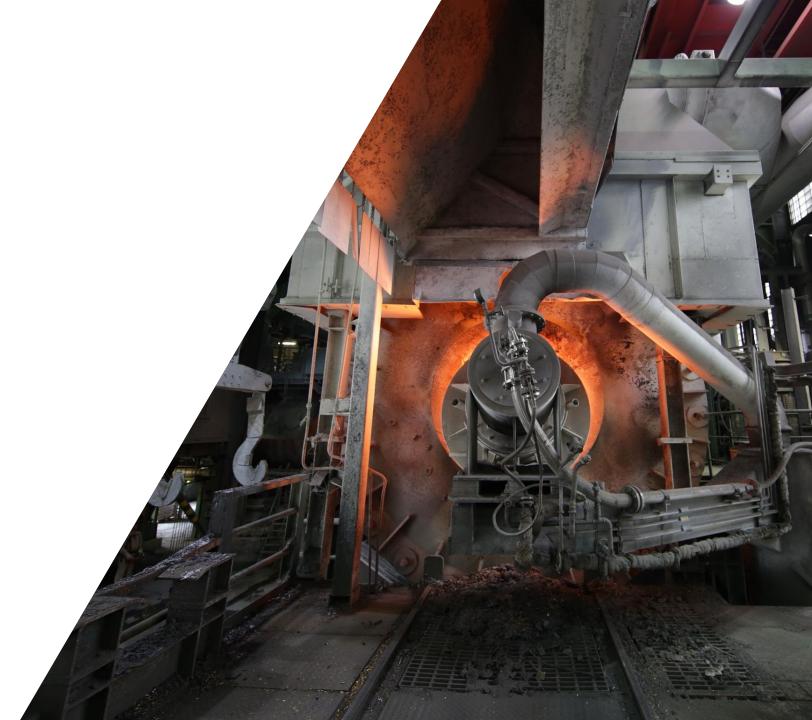
## Aurubis AG Metals for Progress

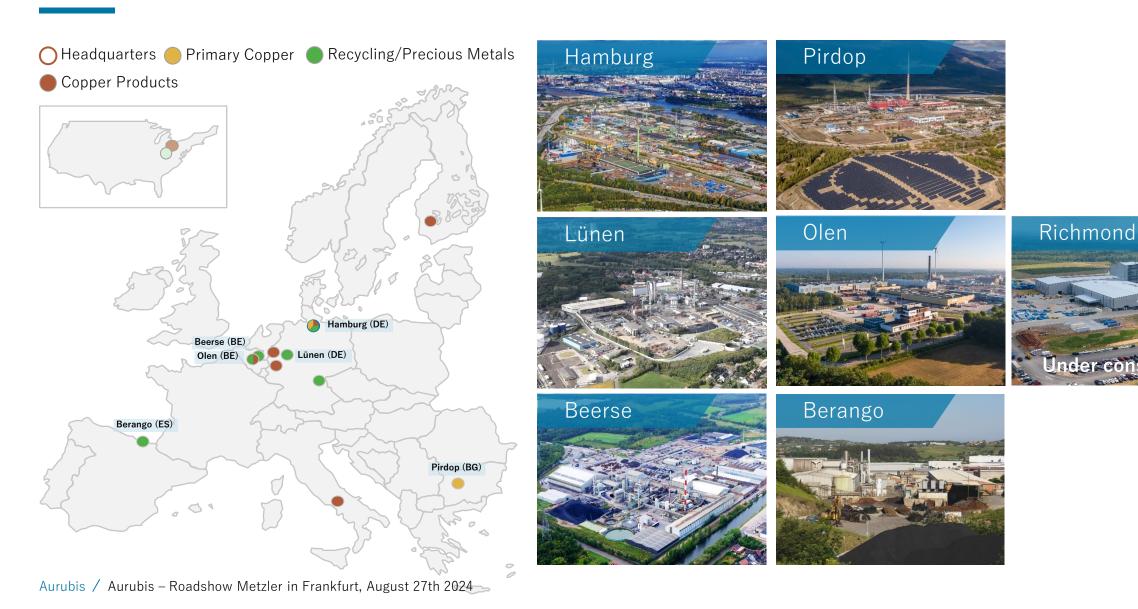
Metzler Roadshow Aurubis AG

August 27th, 2024 Frankfurt

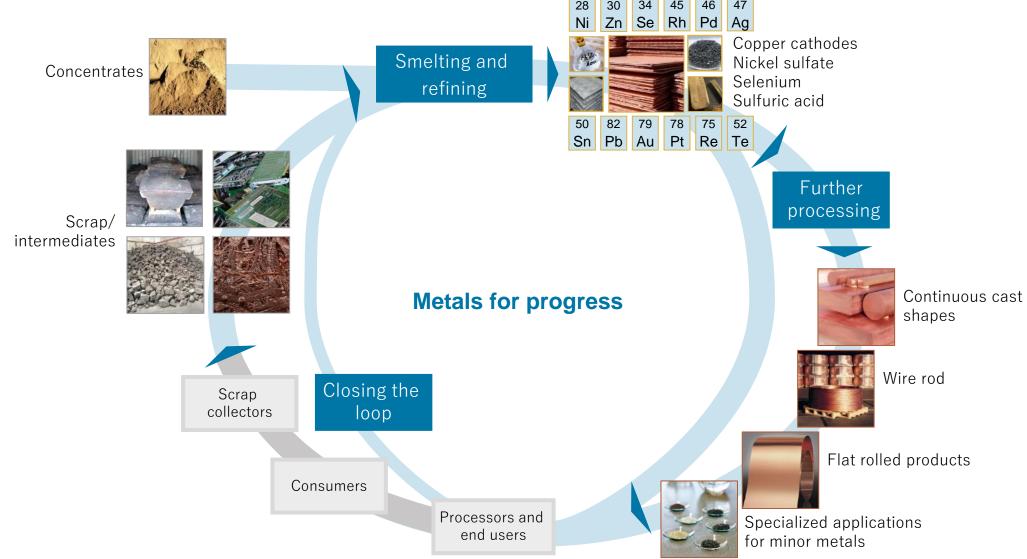




### **Aurubis production sites**



### Closing the loop is part of Aurubis' integrated business model



## Lower concentrate throughput due to shutdown with strong demand for wire rod

	FY 2022/23	Change vs. prior year
Concentrate processing <sup>1</sup>	2,319,000 t	-5 %
Copper scrap/ blister copper input <sup>2</sup>	515,000 t	-5 %
Other recycling materials <sup>2</sup>	565,000 t	+8 %
Cathode output	1,109,000 t	0 %
Continuous cast wire rod output	876,000 t	-1 %
Copper shapes output	178,000 t	-18 %
Flat rolled products + specialty wire output <sup>3</sup>	133,000 t	-24 %
Sulfuric acid output	2,158,000 t	-6 %

	FY 2022/23	Change vs. prior year
Gold	49 t	+4 %
Silver	921 t	+1 %
Lead	38,088 t	-13 %
Nickel	3,488 t	-10 %
Tin	7,858 t	-16 %
Zinc	13,791 t	-1 %
Minor metals	875 t	+1 %
Platinum group metals (PGMs)	9,858 kg	+4 %

<sup>&</sup>lt;sup>1</sup> Custom smelter production <sup>2</sup> Prior-year figures adjusted <sup>3</sup> Prior-year figures include FRP sites that have been sold

### We combine 1st class products with high recycling content

By using our smelter network, primary and secondary sources are providing a solid basis for our high-quality products.



Aurubis Copper Cathode

2344 % recycled content



Aurubis Silver

\$\frac{1}{25} \frac{56}{6} \text{ %} \text{recycled content}



Aurubis SHAPES

26 % recycled content



Aurubis Gold

24 % recycled content



Aurubis ROD| RheinROD

233 % recycled content



Aurubis Tin

2394 % recycled content



Aurubis FOXROD

2369 % recycled content

Sources: Aurubis LCA Assessments; Recycled Content of Aurubis products in 2021/22

Aurubis / Aurubis - Roadshow Metzler in Frankfurt, August 27th 2024

#### **New Executive Board team completed**



Toralf Haag

**CEO** as of Sept. 1, 2024



Inge Hofkens

COO Multimetal Recycling



Roland Harings

**CEO** until Aug. 31, 2024



Steffen Hoffmann

**CFO** as of Oct. 1, 2024



Tim Kurth

COO Custom Smelting & Refining as of Sept. 1, 2024



Markus Kramer

cto until Sept. 30, 2024 Resumes his position on the Supervisory Board

### Executive summary of first 9 months 2023/24

Operating EBT 9M 2023/24 of

€ 333 million (PY: € 257 million<sup>1</sup>)

Operating ROCE

11.1 % (PY: 11.2 %<sup>1</sup>)

Net cash flow

€ 52 million (PY: € 73 million<sup>1</sup>)

Forecast range for FY 2023/24

€ 380–480 million

op. EBT

Aurubis achieves ongoing strong operating result in first 9 months of FY 2023/24

Operating EBT positively influenced by increased TC/RCs for concentrates, a significantly higher metal result, higher earnings from the Aurubis copper premium coupled with ongoing high demand for wire rod, and lower energy costs, counteracted by decreased sulfuric acid revenues, lower income from refining charges, and higher costs.

Prior-year figures restated due to the financial impact of the criminal activities

Most complex and largest maintenance shutdown at the Hamburg site completed successfully

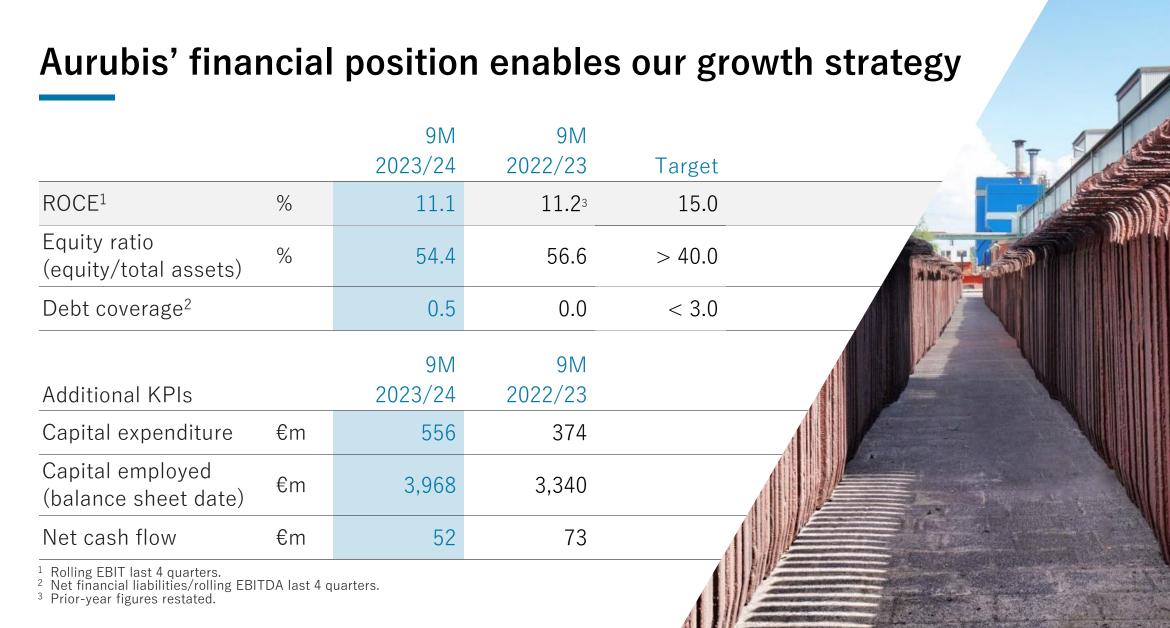
ROCE (rolling EBIT last four quarters) on par with previous year. Growth projects increased capital employed; earnings will only start contributing once projects are completed and ramped up.

Net cash flow improved despite continued increase of working capital due to the shutdown in Hamburg

<sup>&</sup>lt;sup>1</sup> Prior-year figures restated.



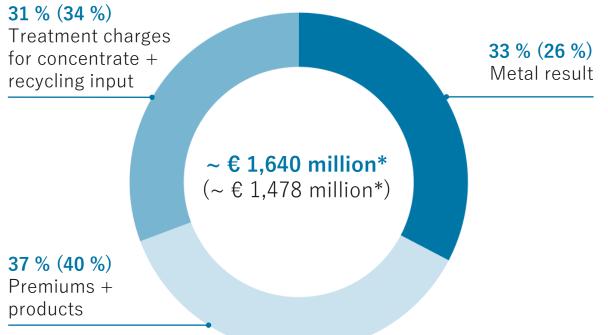
We are confirming our forecast of € 380–480 million operating EBT for 2023/24



Aurubis / Aurubis – Roadshow Metzler in Frankfurt, August 27th 2024

## Gross margin above prior-year level

Breakdown of income components in the Aurubis Group 9M 2023/24 YTD (YTD prior-year figures<sup>1</sup>)



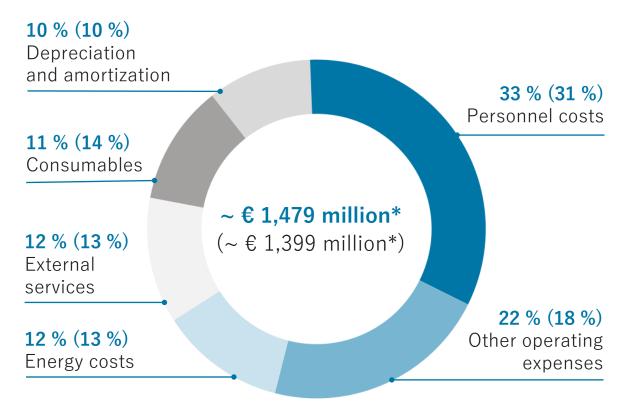
<sup>&</sup>lt;sup>1</sup> Prior-year figures restated.



<sup>\*</sup> Gross margin = Total of earnings components metal result, treatment charges for concentrate + recycling input, and premiums + products

# Overview of Group costs — further decrease in energy costs

Overview of cost/expense positions 9M 2023/24 YTD (YTD prior-year figures<sup>1</sup>)



<sup>&</sup>lt;sup>1</sup> Prior-year figures restated.

<sup>\*</sup> Figures adjusted by energy compensation and hedging transactions





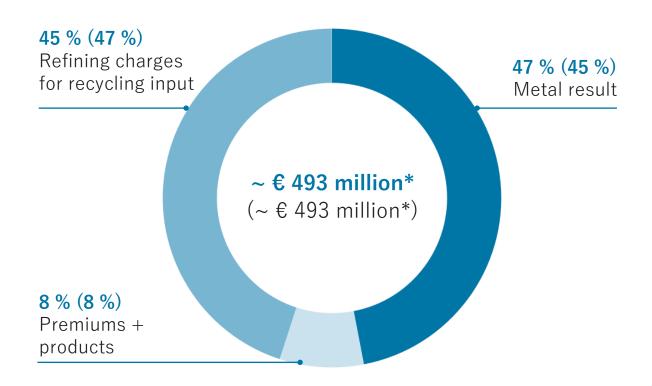
#### Multimetal Recycling segment

		9M	9M
Operating results		2023/24	2022/232
EBIT	€m	108	141
EBT	€m	109	143
ROCE <sup>1</sup>	%	10.4	15.8

#### Quantities

Copper scrap/blister copper	mt	230	253
Other recycling materials	mt	390	391
Cathodes	mt	383	389

#### Breakdown of income components in MMR segment 9M 2023/24 YTD (YTD prior-year figures<sup>2</sup>)



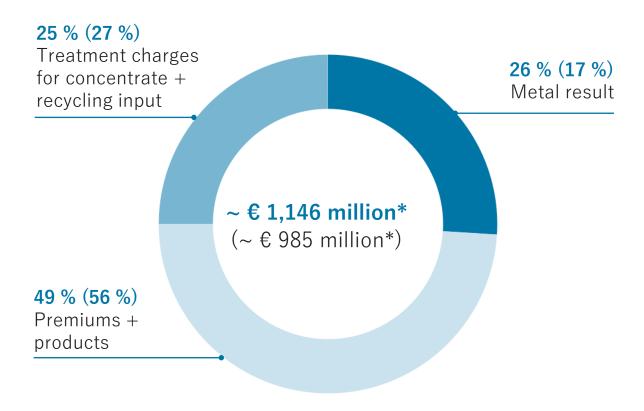
<sup>\*</sup> Gross margin = Total of earnings components metal result, refining charges for recycling input, and premiums + products

Rolling EBIT last 4 quarters.Prior-year figures restated.

#### **Custom Smelting & Products segment**

Operating results		9M 2023/24	9M 2022/23 <sup>2</sup>
EBIT	€m	314	165
EBT	€m	317	173
ROCE <sup>1</sup>	%	16.1	12.2
Quantities			
Concentrates	mt	1,741	1,705
Copper scrap/blister copper	mt	155	147
Sulfuric acid	mt	1,613	1,577
Cathodes	mt	455	452
Rod	mt	683	693
Shapes	mt	135	143
Flat rolled products and specialty wire	mt	99	101

Breakdown of income components in CSP segment 9M 2023/24 YTD (YTD prior-year figures<sup>2</sup>)



 $<sup>^{\,1}\,</sup>$  Rolling EBIT last 4 quarters.

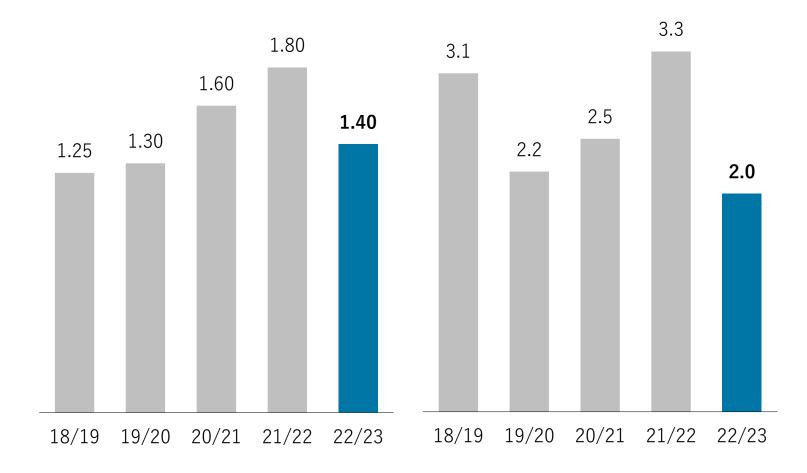
<sup>&</sup>lt;sup>2</sup> Prior-year figures restated.

 $<sup>^*</sup>$  Gross margin = Total of earnings components metal result, treatment charges for concentrate + recycling input, and premiums + products

### Dividend for fiscal year 2022/23

Aurubis dividend (in € per share)

Dividend yield (in %)



Aurubis' growth strategy requires high investments in the coming years

Strategic projects ensure considerable increase in overall group profitability in the years to come

## Market outlook for 2023/24

Copper concentrates	We anticipate a reduced but sufficient concentrate supply for Aurubis from the mining side due to our long-term sourcing strategy with the global mining industry. Our smelters are already supplied until the end of CY 2024.
Recycling input materials	Aurubis expects a good supply of copper scrap and blister copper, while sufficient levels of other recycling materials are expected due to reduced industrial activities. The diversified supplier network buffers potential supply shortages.
Sulfuric acid	Ongoing stable demand and reduced capacities from acid producers are generating positive momentum on the acid markets and sales prices. We now expect the revenue situation to develop just slightly below the previous year's figures in FY 2023/24.
Aurubis copper premium	Has been set at US\$ 228/t (2023: US\$ 228/t) for 2024.
Other copper products	We expect demand for our wire rod to remain at the high level of the previous FY. Demand for shapes and flat rolled products will remain subdued.

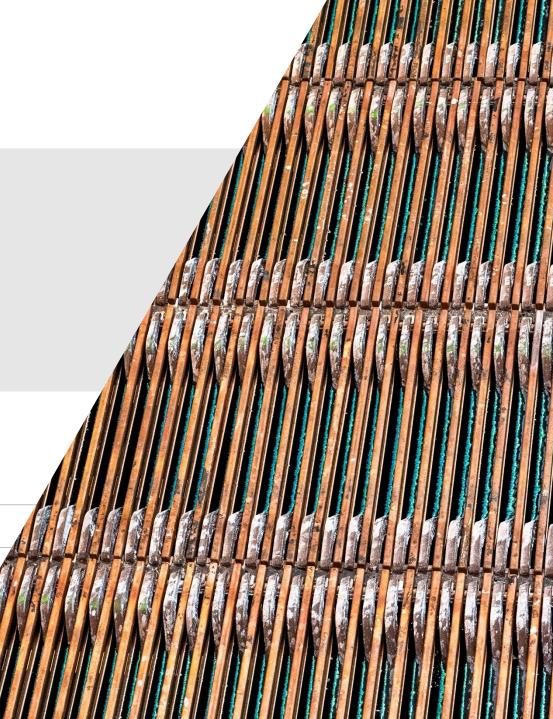
## FY 2023/24 guidance

#### Our forecast range

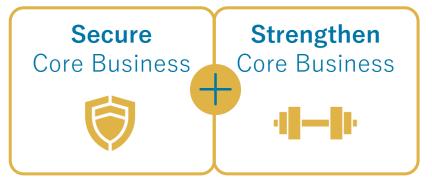
Operating **EBT**between € 380 million
and € 480 million

Operating ROCE between 10 % and 14 %

	Operating EBT in € million	Operating ROCE in %
Group	380–480	10–14
Multimetal Recycling	60–120	5–9
Custom Smelting & Products	410–470	19–23



### Our strategy builds on Aurubis' sound mission and covers relevant aspects for driving sustainable growth







#### **Industry Leadership in Sustainability**

#### **Enablers**

- Digitalization, automation, and "Plant of the Future"
- Strategic resource management, talent and personnel development





We are consistently implementing the strategy

### Strategic investments and EBITDA impact to increase substantially

#### **Short term**

Currently approved

Strategic capex ~€ 1.7 billion approved

Key projects for the 3 strategic pillars – Secure & Strengthen Core Business (i.e., CRH & PM refinery), Pursue Growth Options (Aurubis Richmond), and Sustainability (i.e., PV park & Industrial Heat)

EBITDA impact over next 3 to 5 years ramping up to ~€ 260 million p.a., of which ~€ 170 million from Aurubis Richmond

#### **Medium term**

Medium-term planning

Additional strategic capex is included in the medium-term planning and projects are developed along the project stage gates

Additional EBITDA potential identified mainly in the modular recycling system, battery recycling, and further expansion of Aurubis Richmond

Long term
Until 2030

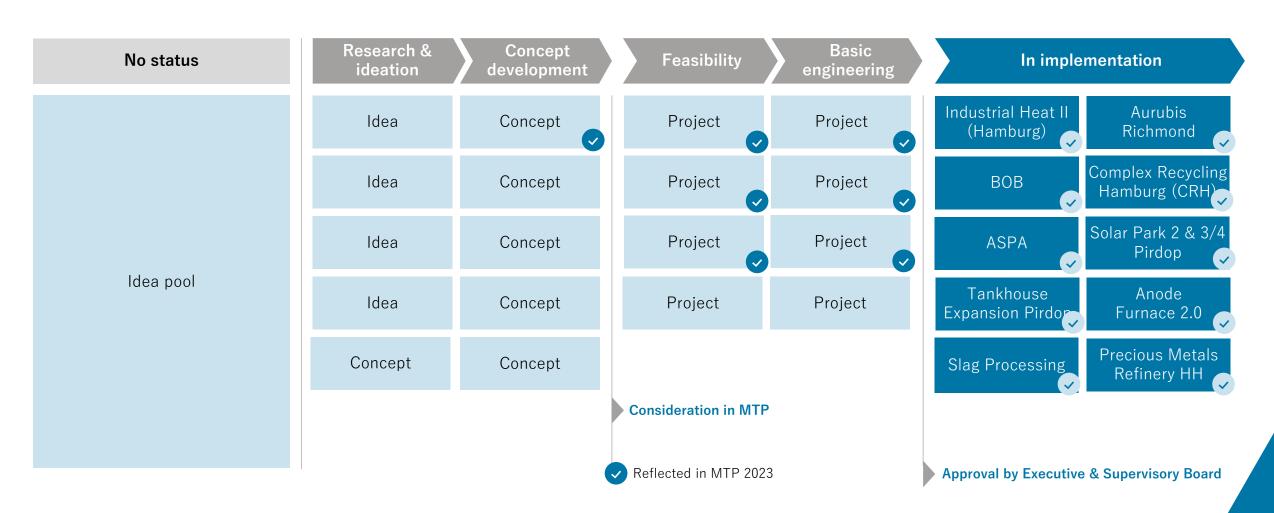
Ambition and scale of our long-term growth and project plans remain at a high level

All capex projects are subject to a sustainability assessment (especially CO<sub>2</sub> contribution)

All strategic investments create valuable synergies with our existing processes and positively impact our op. ROCE target

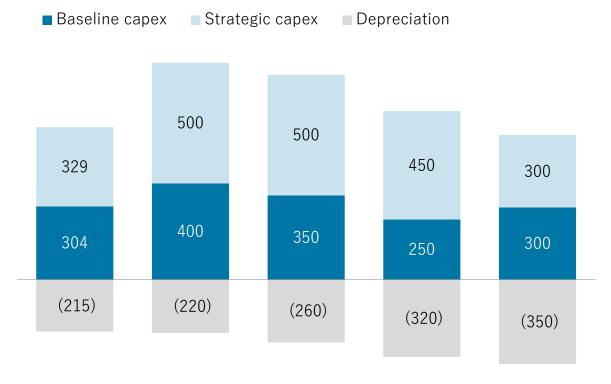
# Strong pipeline features advanced projects included in medium-term planning, plus wealth of nascent concepts to drive sustainable growth

Strategic projects from development to implementation



## Outflows from current project pipeline expected to peak in 2023/24

## Capex planning broken down into baseline and strategic (in € million)



#### Investment horizon of the Group

- The planned maintenance schedule of the two primary smelters in Hamburg and Pirdop will change from planned maintenance every two years to a three-year cycle from FY 2025/26 onwards
- Depreciation will start substantially impacting the P&L after FY 2025/26
- Baseline capex primarily includes maintenance operations along with investment in environmental protection at all Group sites
- In total, the strategic capex creates valuable synergies to our existing processes and contributes positively to our op. ROCE target

FY 22/23 FY 23/24e FY 24/25e FY 25/26e FY 26/27e

#### Timeline of strategic projects in implementation

Timeline for the commissioning of our strategic projects

2024

2025

2026

- Bleed treatment Olen Beerse (BOB) (BE Olen)
- Industrial Heat II (DE Hamburg)
- Aurubis Richmond Module 1 (US Georgia)
- Advanced Sludge Processing by Aurubis (ASPA) (BE Beerse)
- Solar Park 2&3 (BG Pirdop)
- Anode Furnace 2.0 (DE Hamburg)

- Solar Park 4 (BG Pirdop)
- CRH (DE Hamburg)
- Aurubis Richmond Module 2 (US Georgia)

- Tankhouse Expansion (BG Pirdop)
- Precious Metals Refinery (DE Hamburg)
- Slag Processing(BG Pirdop)

## Pursue growth options Aurubis Richmond makes further visible progress





### Aurubis Richmond, USA Visible progress — first important milestones achieved













# Aurubis Richmond – the leading processor of electric and electronic recycling materials in the US



Investment

~ € 740 million

EBITDA p.a.

~ € 80 million
(by 2025/26)

~ € 170 million

**Start of production** following ramp-up phase

Module 1: **2024** 

Module 2: **2026** 

~ **180,000 t** input material

~ 70,000 t

blister copper output



Aurubis Richmond complements and expands our international integrated smelter network with a highly attractive investment in a promising growth market.

The total investment includes additional infrastructure investments and inflation.

Aurubis Richmond establishes us as the front-runner in the US recycling market – tied directly to our strength, innovative expertise, industry-leading metallurgical processes and flexible applications.

With this, Aurubis will become the leading processor of electrical and electronic scrap in the US, by doubling the throughput capacity and output.

~200 new jobs in total.



Project strengthens the circular economy and underlines Aurubis' ambition to strengthen and expand our position as the most efficient integrated smelter network worldwide

# Secure and strengthen core business: Investments in the Hamburg site

#### Financial impacts

- Timeframe: May–July 2024
- Capex: approx. € 235 million in FY 2023/24
  - Maintenance € 95 million
  - H2-ready anode furnace around € 40 million
  - Industrial heat system around € 100 million
- EBT effect: approx. € -44 million in Q3 2023/24

#### Key facts

Description: major maintenance and investments that can only take place during a shutdown include boiler repair, industrial heat expansion, installation of H2-ready anode furnaces, and brick lining of the furnace; during the project ~250 maintenance and repair activities will take place, projects and optimizations that will allow the primary asset to return to a 3-year maintenance cycle.



# Aurubis expands Germany's largest industrial heat system and makes anode furnaces H2-ready



New precious metal processing plant in Hamburg heightens security and enables additional strategic projects

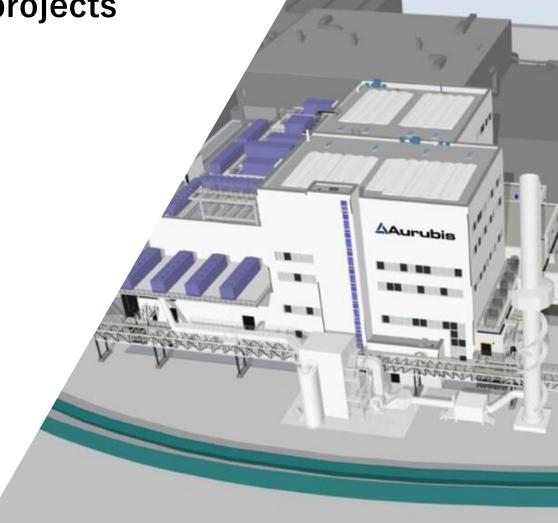
~€ 300 million investment optimizes process chain and includes integrated security concept – multiple security levels for higher physical security

Faster recovery of precious metals optimizes net working capital

Expanding processing capacity enables additional strategic projects by extending precious metal capacity

Setting benchmarks with innovative process and facility technology

15 % reduction of operating costs for precious metal processing





Investments in the Pirdop site: Strategic investments and baseline investments

#### Financial impacts

- Capex: approx. € 400 million in FY 2023/24
  - Tankhouse expansion € 120 million
  - Groundbreaking for PV modules 2 & 3 + expansion announcement for PV module 4
  - Optimization of slag processing at Aurubis Bulgarian site
  - Baseline investments
- Strategic investments: approx. 60 % of € 400 million

#### Baseline investments

Description: deploying 460 high-efficiency motors in the Bulgarian plant, replacing transformers, and installing state-of-the-art lighting technology. Further investments in a number of infrastructure projects and a company fleet of train cars to transport copper concentrates from the Port of Burgas to Pirdop.



## Start of tankhouse and solar park expansion



# Secure core business: Complex Recycling Hamburg (CRH) – further optimization of smelting process





## Secure & strengthen core business CRH: Further optimization of the smelting process in Hamburg



Investment

~ € 190 million

EBITDA p.a.

~ € 40 million
(at full production)

Start of production following ramp-up phase

Q4 2025

~ **32,000 t** p.a.

Input of external material







Aurubis is strengthening its core business and investing € 190 million for further optimization of the smelting process at the Hamburg site.

Construction of a new TBRC at the Hamburg site incl. process gas cleaning system based on best available techniques (BAT).

Processing internal and external value-added complex intermediates and recycled materials with additional treatment and refining charges and metal recoveries.

Increase in metal yield (mainly precious metals) with lower process times.

CRH is the prerequisite for further attractive strategic projects (e.g., higher yield of additional industrial and precious metals).

Differentiation from competitors through expansion of metallurgical processes and extension of the value chain at the Hamburg site.



Project underscores Aurubis' commitment to its Hamburg site, while increasing capacities for the sustainable recovery of metals from intermediates and complex recycling materials

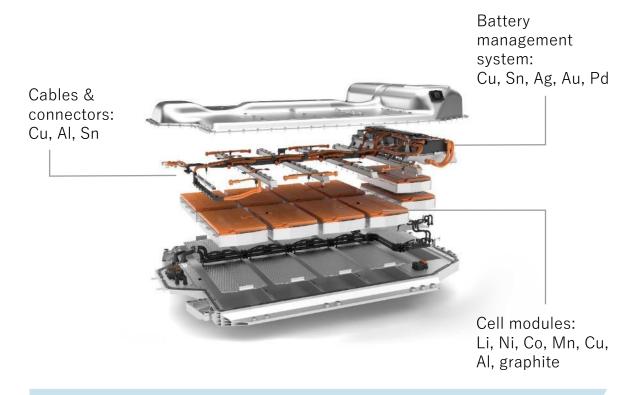
## Pursue growth options Test pilot for battery recycling in Hamburg



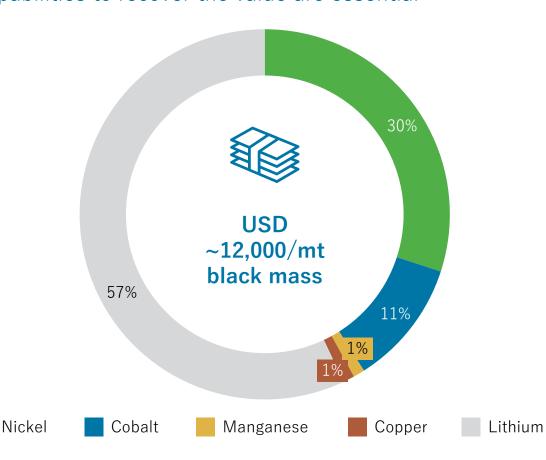


## Lithium-ion batteries – exceptional value hidden in complex products, complex recycling material

Batteries are complex scraps that are of huge value



As the metal value in black mass is very high, capabilities to recover the value are essential

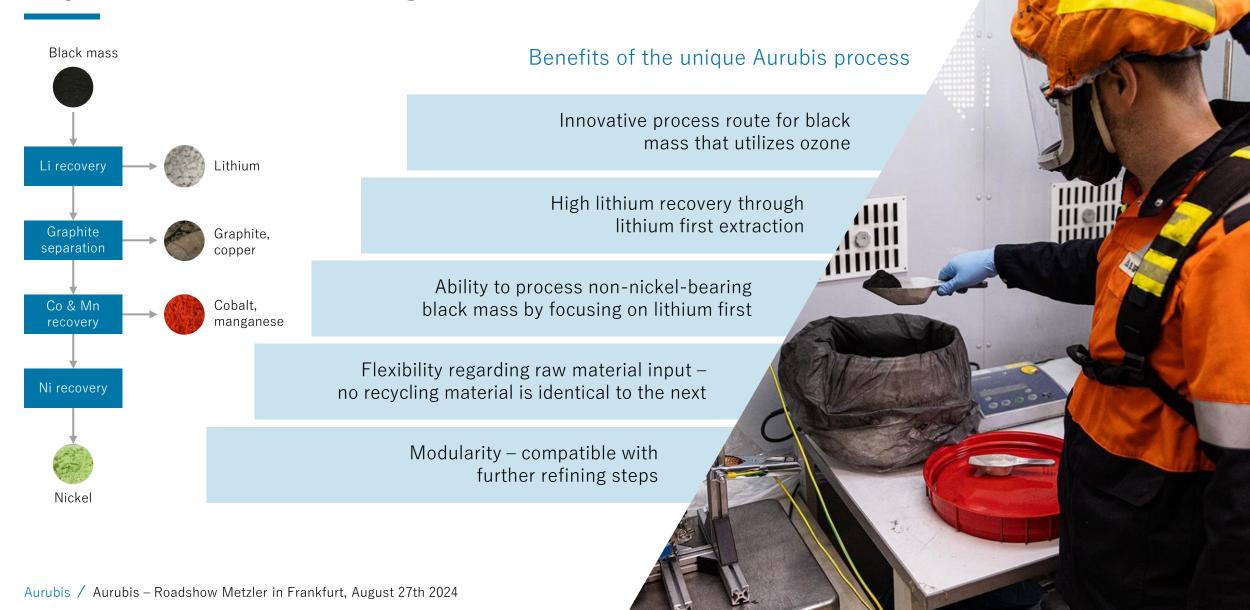


Average black mass content: ~40 %

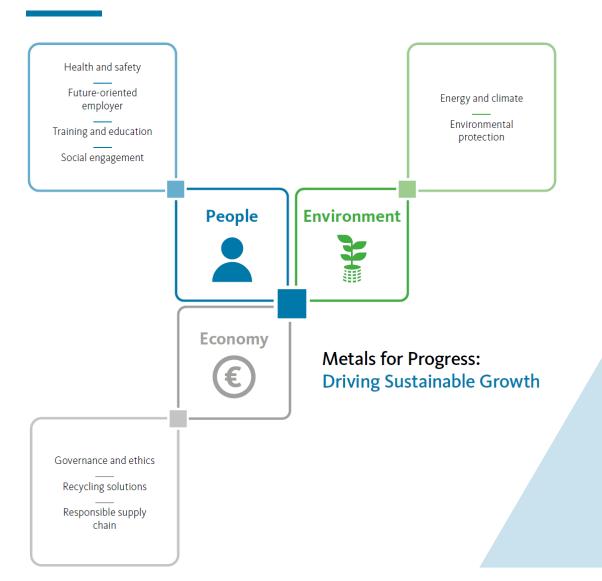
Source: BMW Group

Source: Aurubis, Roland Berger, LME

Our innovative process for black mass leverages capabilities of our integrated smelter network



# We continue to lead our industry in sustainability – minimizing emissions and costs, maximizing opportunities in new business areas



We continue to strengthen our position as the most efficient and sustainable multimetal producer worldwide

Sustainability is a fundamental part of

Aurubis' strategy

We strive for balance between economy, environment, and people

9 action areas, targets and measures across E, S, and G The Copper Mark certification demonstrates our leadership in sustainable production practices



The Copper Mark launched for copper producers in March 2020



Focus on steady improvement of the sector's production practices



Aurubis Beerse and Solberg certification in 2023 expected





Basis: UN SDGs & Risk Readiness Assessment



Joint Due Diligence Standard enables effective due diligence



Review of 32 sustainability criteria



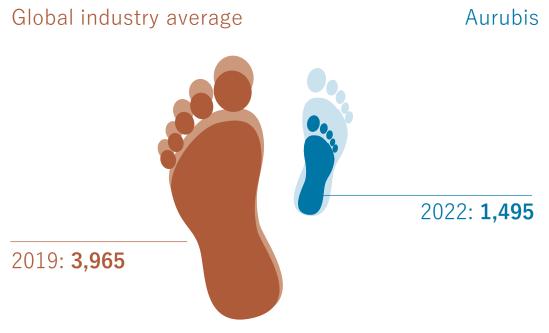
Aurubis Bulgaria, Hamburg, Lünen and Olen already certified for meeting The Copper Mark's requirements



The copper value chain can be sustainable – promoting and driving this industry initiative demonstrates our responsibility and growing momentum for a more sustainable product.

### Leading the way with life cycle assessments – and substantially lower carbon footprints than industry averages

Copper cathodes (in kg CO<sub>2</sub> eq./t Cu)



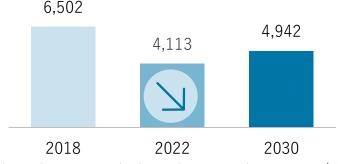
<sup>\*</sup> Please note that ITA data is reported using the CML method of impact assessment, which has limited comparability.

Source: International Copper Association 2019, Aurubis LCA 2022

#### Absolute Scope 1+2 CO<sub>2</sub> emissions (in kt)



#### Scope 3 CO<sub>2</sub> emissions (in kt)<sup>1</sup>

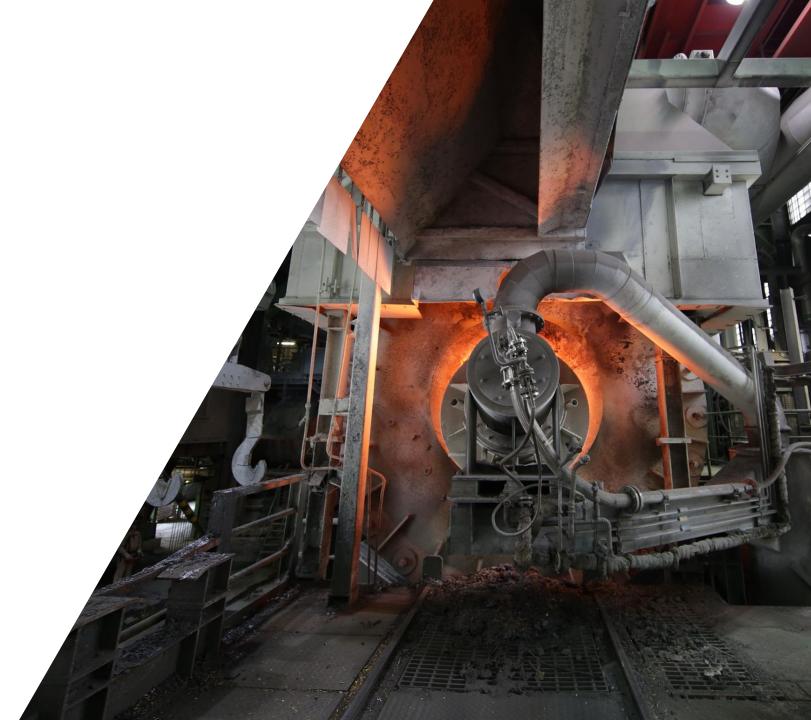


<sup>&</sup>lt;sup>1</sup> Assumed steady copper cathode production until target year (physical intensity target). In 2022 we were able to draw on more accurate mine and transport data, so emissions were lower. We now plan to reassess and sharpen our 2030 target in FY 23/24 based on the better data now available.



Aurubis continuously pursues better energy efficiency: lowering costs and reducing  $CO_2$  emissions

**Aurubis AG Metals for Progress** 





#### Financial calendar

Annual Report 2023/24

- Q1 2024/25

Annual General Meeting

- Q2 2024/25

- Q3 2024/25

Annual Report 2024/25

December 5, 2024

February 5, 2025

April 3, 2025 (preliminary)

May 8, 2025

August 5, 2025

December 4, 2025



#### **Your IR contacts**



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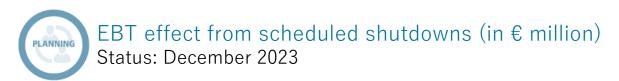
Senior Manager Investor Relations +49 40 7883-3179 <u>f.vonoertzen@aurubis.com</u>

# Overview of restated operating EBT Q1-Q4 2022/23 relevant only at Group and CSP level

- New findings have resulted from the investigation into and clarification of the criminal activities against Aurubis.
- We now assume that the negative impact of the criminal acts took effect at the start of the 2023 calendar year specifically.
- As a result, operating and IFRS results from Q2 2022/23 onwards have been restated in keeping with IAS 8.
- Restatement only applies to CSP segment and Group level
- The estimate of the impact is based on the special inventory as at August 31, 2023, the inventory as at the September 30, 2023 reporting date, and the additional analyses that we have carried out to date.
- According to best estimates, it is assumed that the financial impact on operating EBT as at the March 31, 2023 reporting date and the following quarters should have been as follows:

(operating in €m)	3M 2022/23	6M 2022/23	9M 2022/23	12M 2022/23
Aurubis Group				
EBT before restatement	125	291	406	-
Restatement	0	-52	-149	-169
EBT restated	125	239	257	349
CSP segment				
EBT before restatement	108	223	322	-
Restatement	0	-52	-149	-169
EBT restated	108	171	173	253

## Scheduled shutdowns in the next 3 years



	FY 2023/24		FY 2024/25		FY 2025/26		
Smelter maintenance Hamburg	May/July 2024	~44					
Anode furnace Hamburg					May/June 2026	~6	
Smelter maintenance Pirdop			Apr/June 2025	~24			
KRS Lünen	May 2024	~10	May 2025	~10	May 2026	~10	
Anode furnace Lünen	Nov/Dec 2023	~6	Nov/Dec 2024	~7	Nov/Dec 2025	~7	
							-

# Aurubis at a glance

Based in Hamburg, Aurubis AG develops its leading market position with a responsible approach to the environment, people and resources



The company's main expertise is in optimally processing concentrates and recycling raw materials with complex qualities

Metallurgical know-how, state-of-the-art plant facilities, and extraordinarily high environmental standards for the sector make Aurubis an attractive partner for raw material suppliers



The company, which was founded in 1866 as Norddeutsche Affinerie AG, is listed in the MDAX and produces more than 1 million t of copper cathodes and various copper products from them with around 7,200 employees worldwide



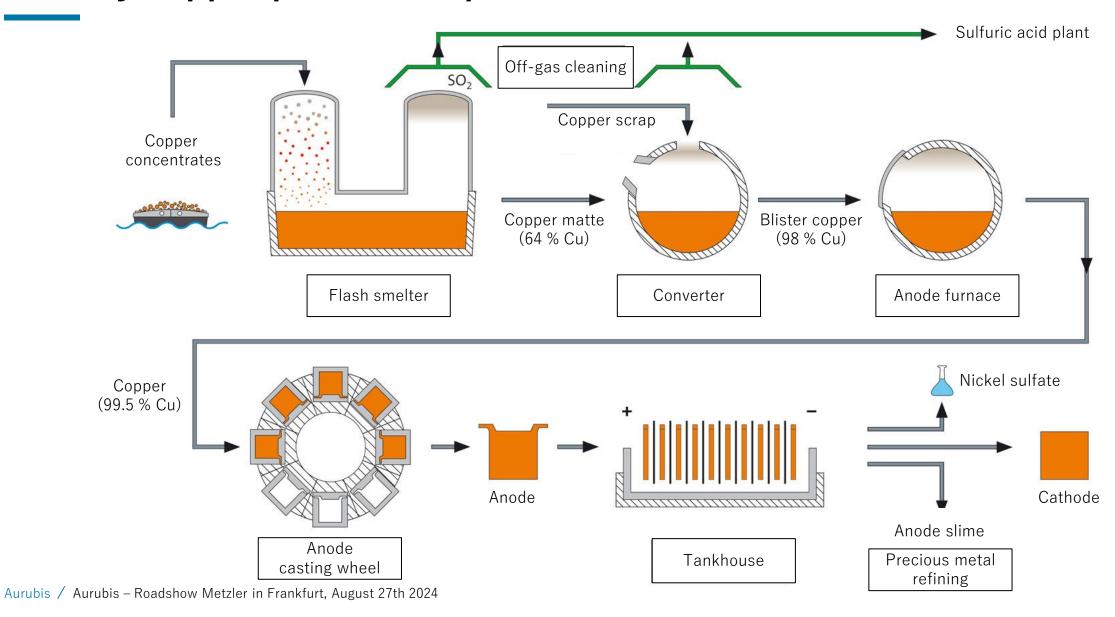


The Group is active in more than 20 countries and has production sites concentrated in Europe and North America



Aurubis is one of the world's leading producers of cathodes, rod and flat rolled copper products

#### **Primary copper production process**



#### Disclaimer

#### Forward-looking statements

This document contains forward-looking statements that involve risks and uncertainties, including statements about Aurubis' plans, objectives, expectations and intentions. Readers are cautioned that forward-looking statements include known and unknown risks and are subject to significant business, economic and competitive uncertainties and contingencies, many of which are beyond the control of Aurubis. Should one or more of these risks, uncertainties or contingencies materialize, or should any underlying assumptions prove incorrect, actual results could vary materially from those anticipated, expected, estimated or projected.