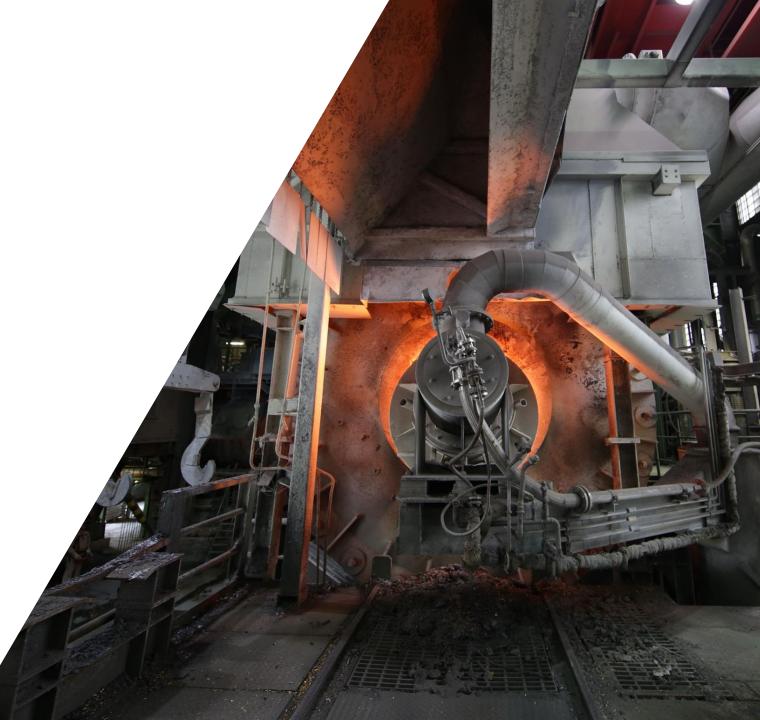
## Aurubis AG Metals for Progress

Roadshow Zürich Baader Helvea

April 16th, 2024 Zürich



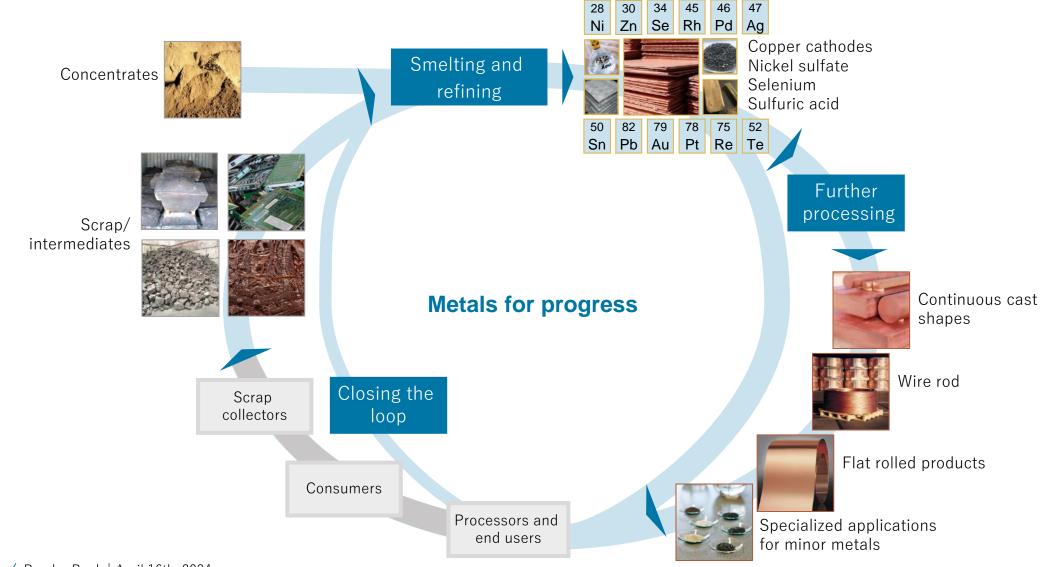


#### Our metals for an innovative world: Copper makes the circular economy possible





## 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 %

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

<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

## Executive summary of first 3 months 2023/24

Operating EBT 3M 2023/24 of € 111 million (PY: € 125 million) <sup>1</sup>	<b>Operating ROCE</b> <b>9.7 %</b> (PY: 16.3 %)	Overall stable market conditions and good operative performance led to solid three-month figures for FY 2023/24 Operating EBT positively influenced by higher treatment and refining charges for concentrates, a significant increase in the Aurubis copper premium, and continuing high demand for wire rod at a stable cost structure. Decreased metal result due to reduced metal prices and lower sulfuric revenues had a negative impact on earnings.
Net cash flow € -202 million (PY: € -64 million)	Confirmed forecast range for FY 2023/24 <b>€ 380–480 million</b> op. EBT	<ul> <li>ROCE (taking EBIT of the past four quarters into account) reduced due to the negative closing quarter of the previous year and ongoing investment activity</li> <li>Net cash flow subdued as a result of the build-up of inventories in preparation for the shutdown in Hamburg</li> <li>Op. EBT for FY 2023/24 expected in the guided forecast corridor of € 380–480 million</li> </ul>

#### Good operating performance and continued progress on the strategic projects

## Aurubis' financial position remains strong

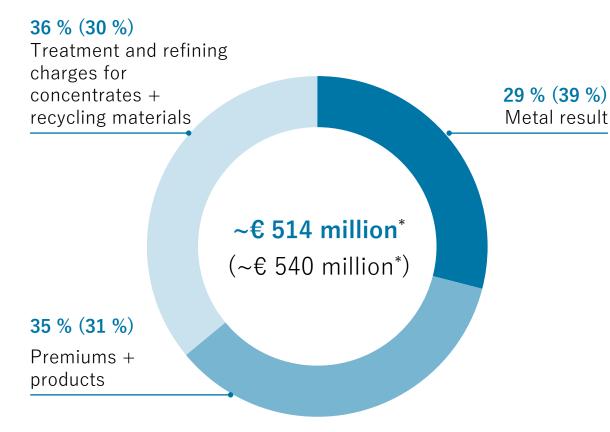
		3M 2023/24	3M 2022/23	Target
ROCE <sup>1</sup>	%	9.7	16.3	15.0
Equity ratio (equity / total assets)	%	58.6	56.6	> 40.0
Debt coverage <sup>2</sup>		0.2	-0.3	< 3.0
Additional KPIs		3M 2022/23	3M 2022/23	
Capital expenditure	€m	153	72	
Capital employed (balance sheet date)	€m	3,597	3,099	
Net cash flow	€m	-202	-62	

<sup>1</sup> Rolling EBIT last 4 quarters

<sup>2</sup> Net financial liabilities/rolling EBITDA last 4 quarters

## Gross margin for the Group in 2023/24 YTD

Breakdown of income components in the Aurubis Group 3M 2023/24 YTD (YTD prior-year figures)

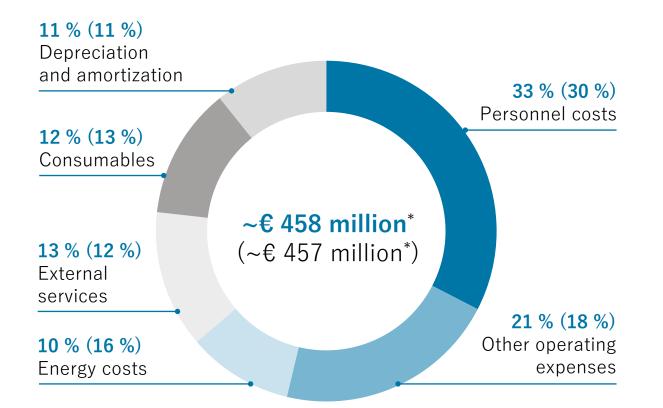


\* Gross margin = Total of earnings components metal result, treatment and refining charges for concentrate + recycling input, and premiums + products



## Stable overall Group costs

Overview of cost/expense positions 3M 2023/24 YTD (YTD prior-year figures)

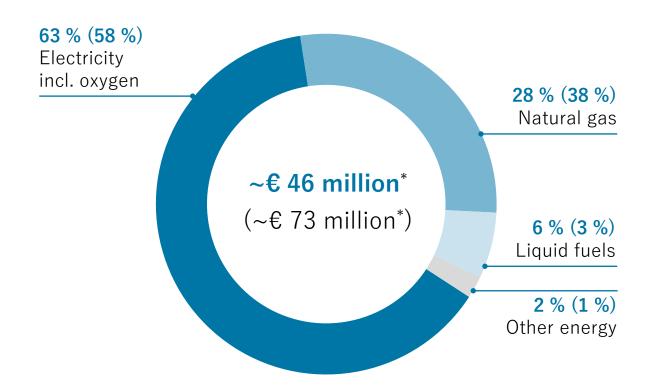


\* Figures adjusted by energy compensations and hedging transactions
 Aurubis / Baader Bank | April 16th, 2024



## Significant decrease in energy costs due to reduction of market prices

Breakdown of energy costs 3M 2023/24 (3M PY)



Key factors influencing the reduction of energy costs in Q1 2023/24:

- Active energy management/hedging transactions
- Electricity price cap in Bulgaria
- Indirect CO<sub>2</sub> compensation (annual payment)

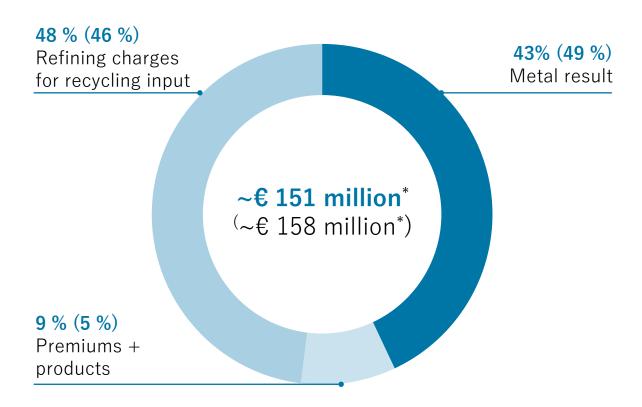
\* Figures adjusted by energy compensations and hedging transactions

### **Multimetal Recycling segment**

	3M	3M
	2023/24	2022/23
€m	28	34
€m	29	35
%	13.5	18.3
mt	73	84
mt	133	130
mt	125	131
	<b>€m</b> % mt mt	2023/24 €m 28 €m 29 % 13.5 % 13.5 mt 73 mt 133

<sup>1</sup> Rolling EBIT last 4 quarters Prior-year figures adjusted

## Breakdown of income components in MMR segment 3M 2023/24 YTD (YTD prior-year figures)

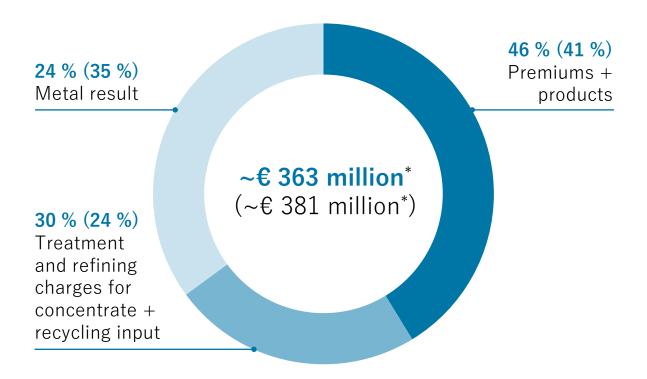


\* Gross margin = Total of earnings components metal result, refining charges for recycling input, and premiums + products

## **Custom Smelting & Products segment**

		3M	3M
Operating results		2023/24	2022/23 <sup>2</sup>
EBIT	€m	107	108
EBT	€m	107	108
ROCE <sup>1</sup>	%	11.5	18.9
Quantities			
Concentrates	mt	646	635
Copper scrap / blister copper	mt	50	46
Sulfuric acid	mt	592	586
Cathodes	mt	151	150
Rod	mt	205	195
Shapes	mt	35	49
Flat rolled products and specialty wire	mt	30	32

## Breakdown of income components in CSP segment 3M 2023/24 YTD (YTD prior-year figures)



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

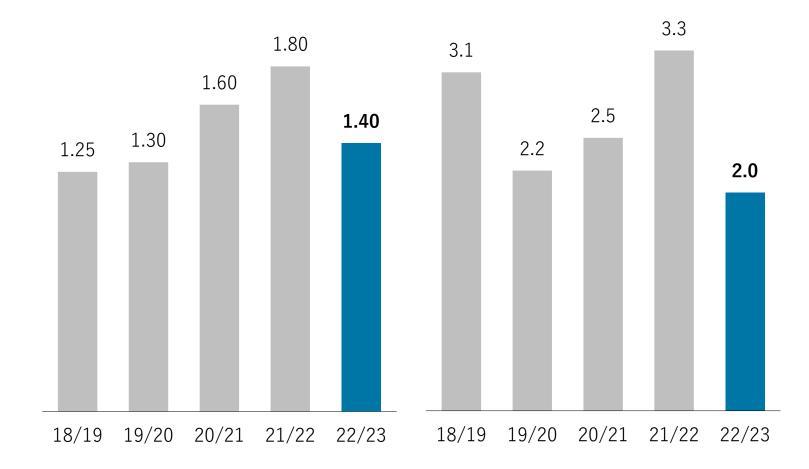
<sup>1</sup> Rolling EBIT last 4 quarters

<sup>2</sup> Prior-year figures adjusted

## 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



#### 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



#### 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 Heating)

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

Long term

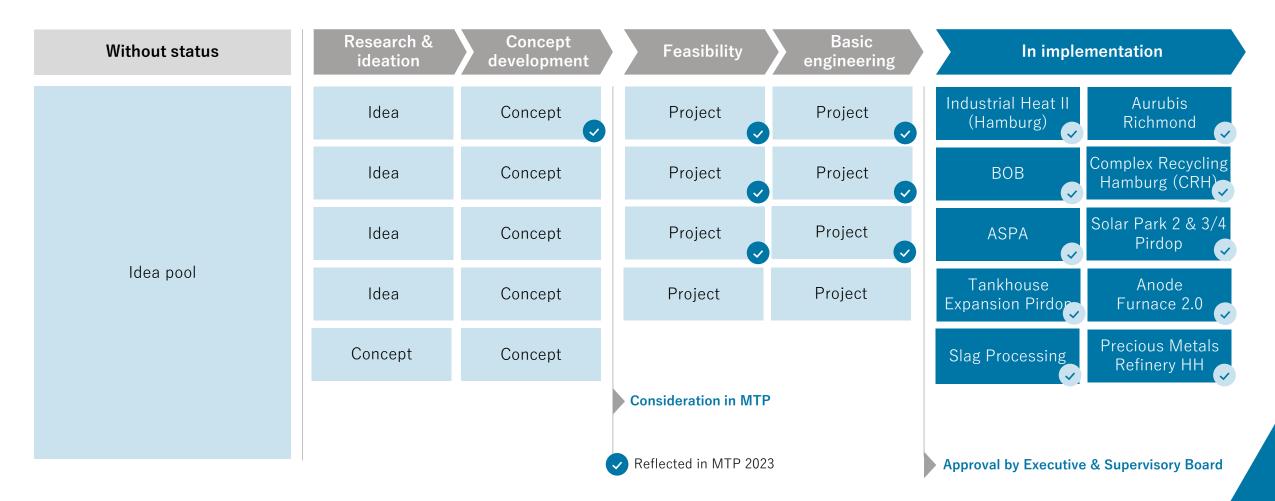
Until 2030

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



## Timeline of strategic projects in implementation

Timeline for the commissioning of our strategic projects

2024

- 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)

2025

- Tankhouse Expansion (BG Pirdop)

2026

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

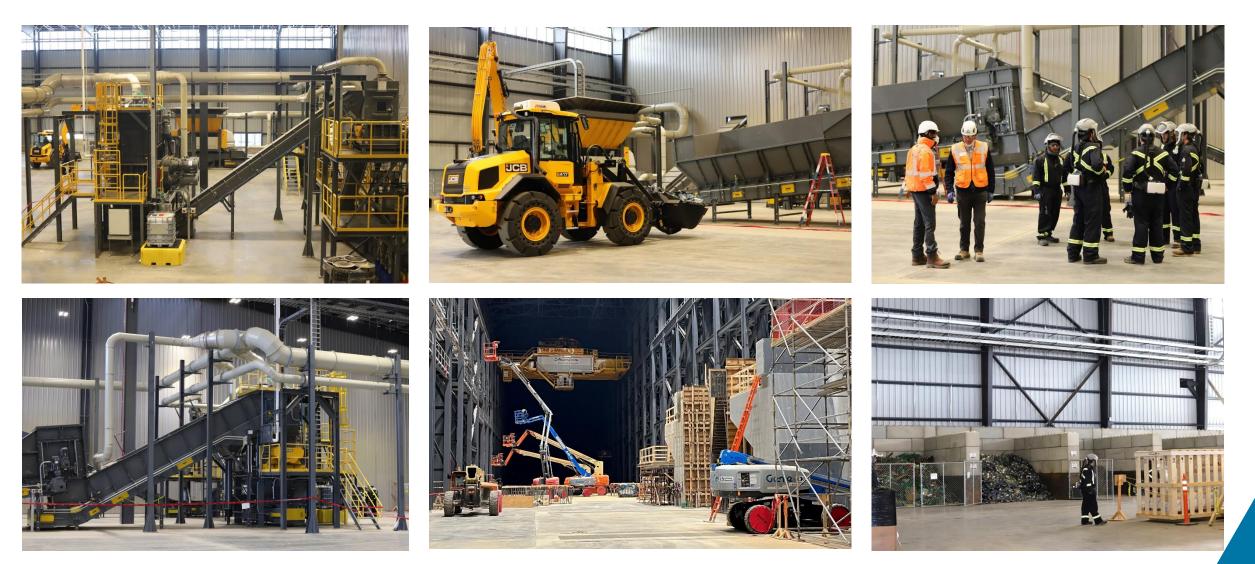
### Aurubis Richmond, USA Visible progress — first important milestones achieved





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

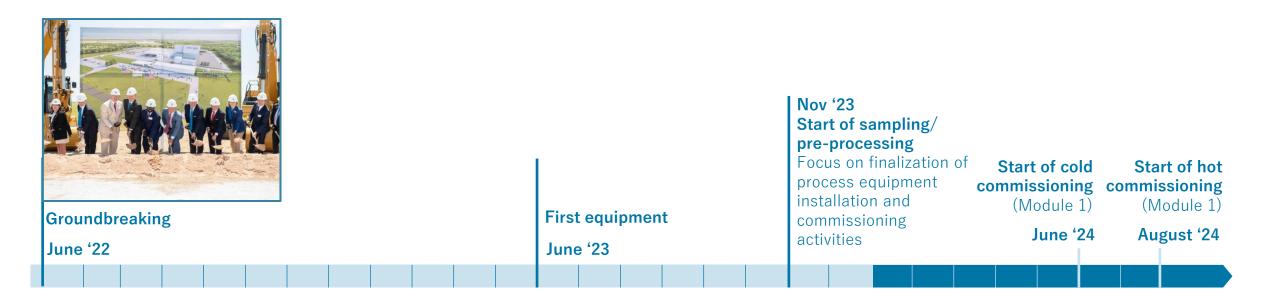


## Aurubis Richmond – the leading processor of electric and electronic recycling materials in the US

Investment ~ € 740 million	EBITDA p.a. ~ € 80 million (by 2025/26) ~ € 170 million (by 2026/27)	Pursue Growth OptionsAurubis 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.
Start of production following ramp-up phase Module 1: 2024 Module 2: 2026	<ul> <li>180,000 t</li> <li>input material</li> <li>70,000 t</li> <li>blister copper output</li> </ul>	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

# Aurubis Richmond showing significant progress since groundbreaking in June 2022



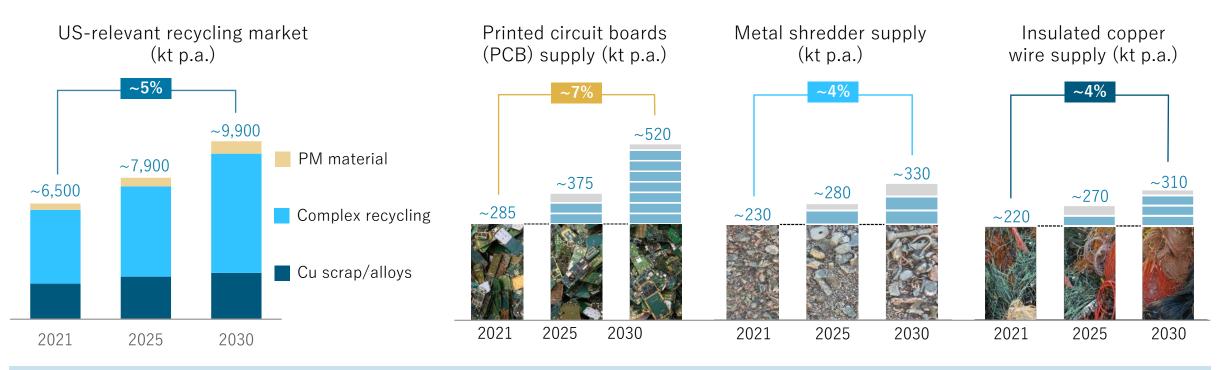
#### Key project statistics:

- Visible progress: approx. 30 kt concrete poured, 20,000 m<sup>2</sup> PEMB<sup>1</sup> erected, over 3,000 t of structural steel installed, approx. 80 % of process equipment delivered to site
- Project & operational teams: key project roles & senior mgmt. team staffed (~100 FTE in January 2024) strong focus on hiring to continue in 2024 to fill vacant roles on production team
- **CAPEX:** € 740 m approved, thereof  $\sim$  € 281 m spent as of January 2024

<sup>1</sup> Pre-engineered metal buildings

# Very attractive market environment: Relevant recycling materials to grow at ${\sim}5~\%$ p.a. in North America

Pursuing growth in North America



#### Key growth drivers



Collection rates Increasing collection rates, especially of bulk e-waste and PCB materials (currently only ~30 %)



Declining exports Net export of copper scrap continuously decreasing due to increasingly restrictive import policies in China/SEA



Incremental growth Continuous growth of industrial activity and consumption of electronics lead to solid growth base

## 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



Aurubia

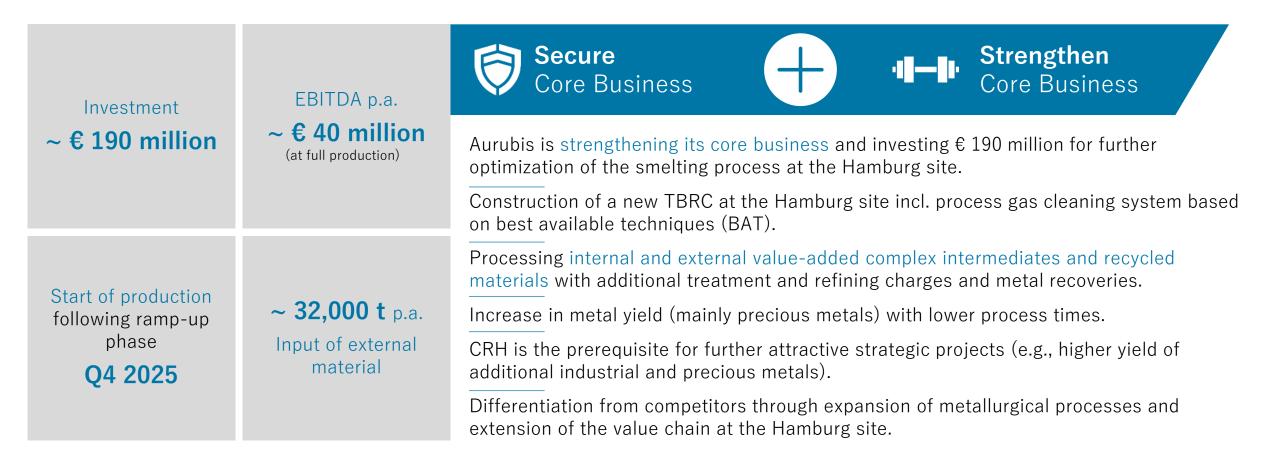
## Secure core business: Complex Recycling Hamburg (CRH) – further optimization of smelting process





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





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

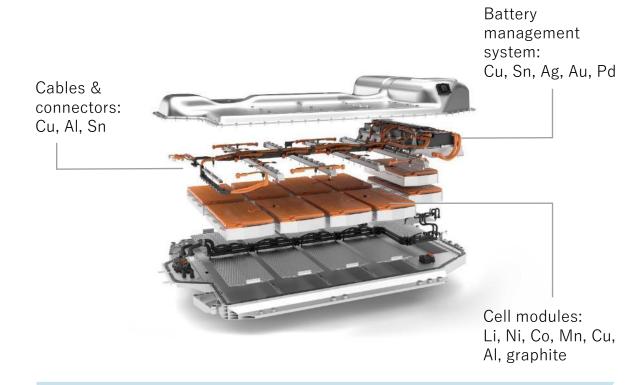
### Pursue growth options Test pilot for battery recycling in Hamburg





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

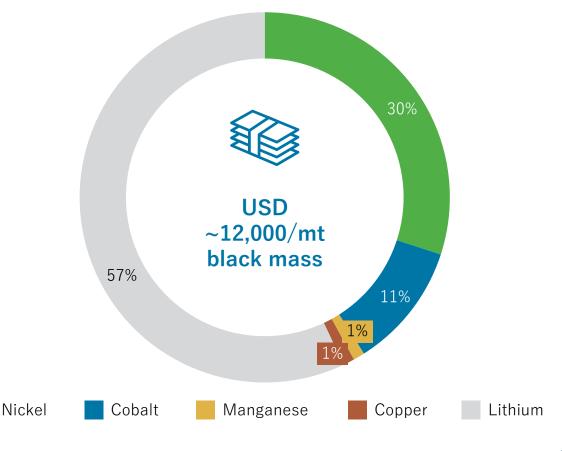
Batteries are complex scraps that are of huge value



Average black mass content: ~40 %

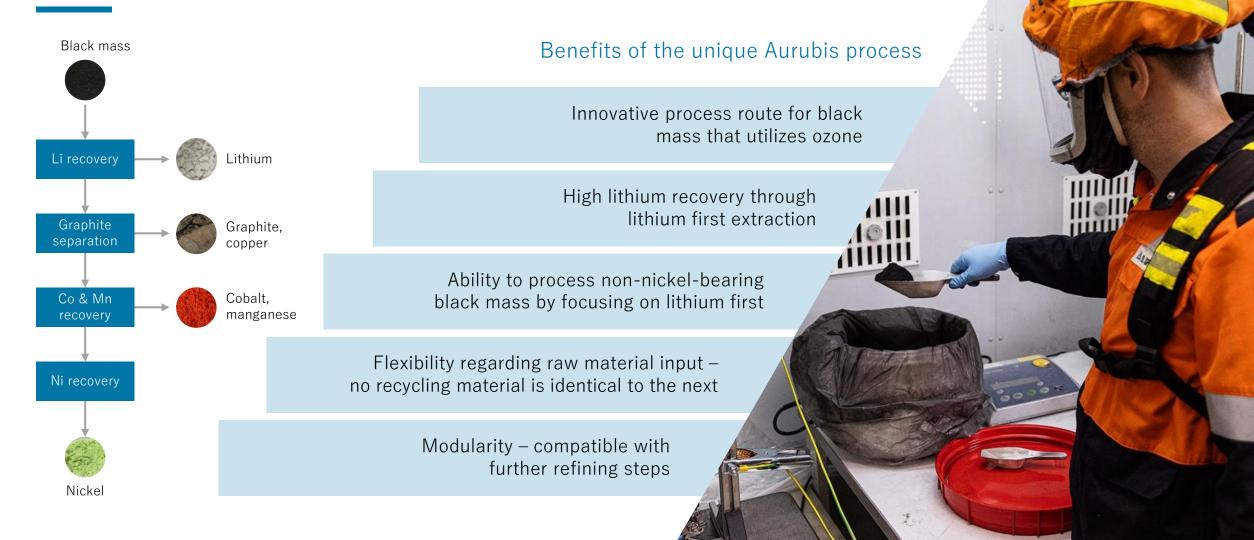
Source: BMW Group

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

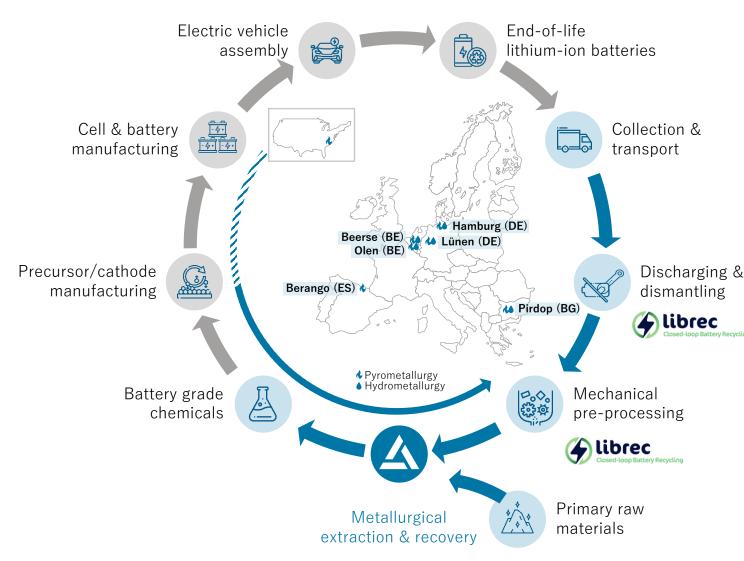


Source: Aurubis, Roland Berger, LME

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



#### Our sweet spot in the battery recycling value chain is based on Aurubis' core expertise



We are developing a fully-fledged battery recycling supply and value chain

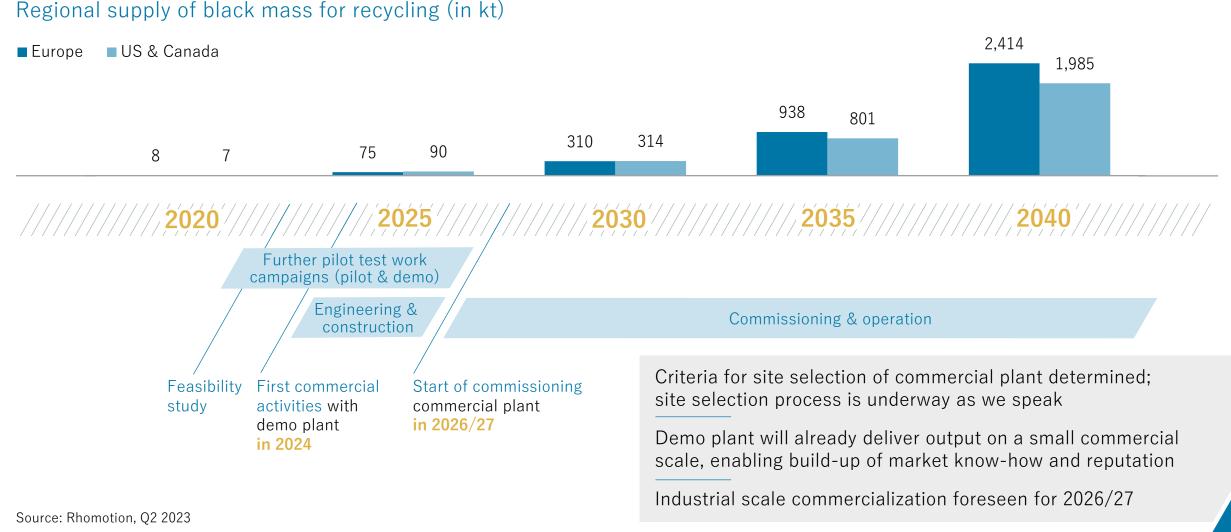
First steps taken with Librec, a specialist company in Switzerland, to optimize metallurgy vis-à-vis pretreatment

Further existing partners with core expertise in recycling to cover the production of black mass

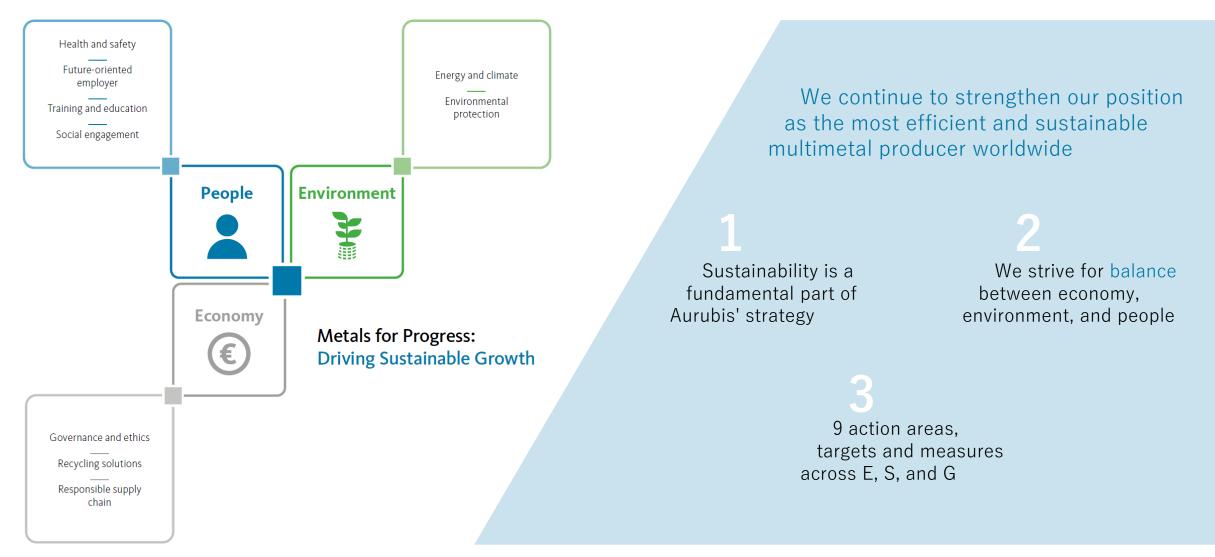
Aurubis' integrated smelter network offers unique benefits

Downstream: intensive partnership discussions with experts in chemicals production to close the loop in battery metals

## In line with projected market growth, Aurubis could enter the commercial market in the second half of this decade



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



### 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



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



Aurubis Beerse and Solberg certification in 2023 expected

RESPONSIBLY

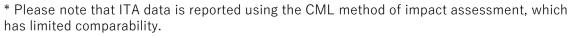
PRODUCED

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

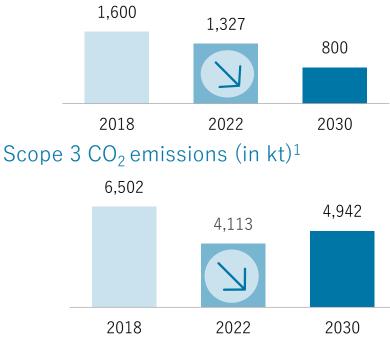
## Leading the way with life cycle assessments – and substantially lower carbon footprints than industry averages

Copper cathodes (in kg  $CO_2$  eq./t Cu)





Source: International Copper Association 2019, Aurubis LCA 2022



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

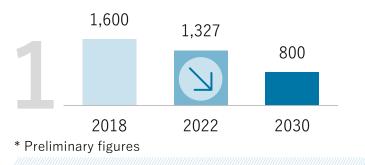
<sup>1</sup> Assumed steady copper cathode production until target year (physical intensity target). In 2022 we were able to draw on more accurate mine and transport data, so emissions were lower. We now plan to reassess and sharpen our 2030 target in FY 23/24 based on the better data now available.

Aurubis continuously pursues better energy efficiency: lowering costs and reducing CO<sub>2</sub> emissions

# Our KPIs underline our sustainability ambitions and demonstrate momentum

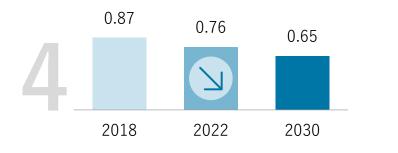


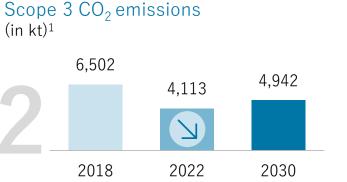
Absolute Scope  $1+2 \text{ CO}_2$  emissions (in kt)



Metal emissions to water

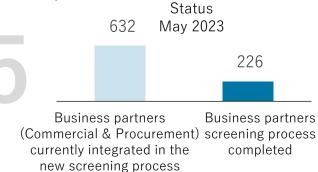
(in g per t of multimetal Cu equivalent) $^2$ 





#### Supply chain integrity

For all identified high risk business partners we implemented action plans. This has reduced our business partner risk.<sup>3</sup>

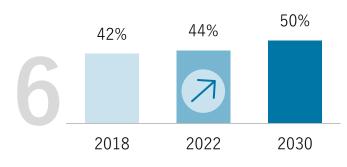


#### Air emissions (dust)



#### Recycling content (Cu)

Recycling share of Cu cathodes (in %)



<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.

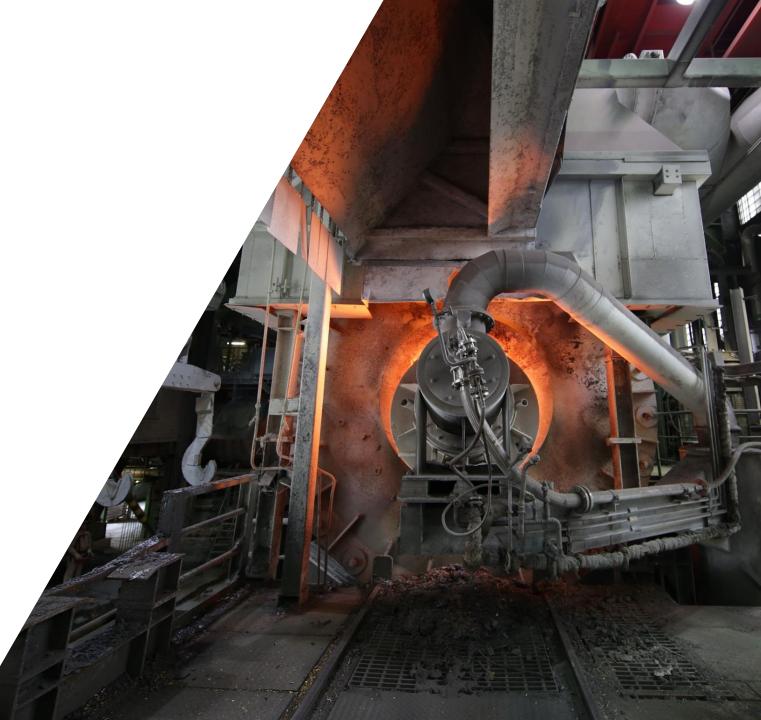
<sup>2</sup> Multimetal Cu equivalent: total metal produced at Aurubis smelters (Cu, Zn, Ni, Pb, Sn, Au, Pd, Pt, Ag, Rh, Se, Te) x weight factors.

<sup>3</sup> Aurubis is introducing a revised and uniform Business Partner Screening system in FY 2022/23, in which we bundle the requirements of the various regulations, standards, and initiatives. Aurubis / Baader Bank | April 16th, 2024

## Aurubis AG Metals for Progress

Roadshow Zürich Baader Helvea





## Financial calendar

- Q2 2023/24

May 8, 2024

- Q3 2023/24
- Annual Report 2023/24

December 5, 2024

August 5, 2024

### Your IR contacts



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## Scheduled shutdowns in the next 3 years



EBT effect from scheduled shutdowns (in € million) Status: December 2023

	FY 2023/24		FY 2024/25		FY 2025/26				
Smelter maintenance Hamburg	May until beginning of July 2024	~44							
Anode furnace Hamburg					May/June 2026	~6		TE	R
Smelter maintenance Pirdop			Apr/ June 2025	~24				?É	-
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 / Baader Ban	k   April 16th, 2024						10		

#### 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 about 7,100 employees worldwide



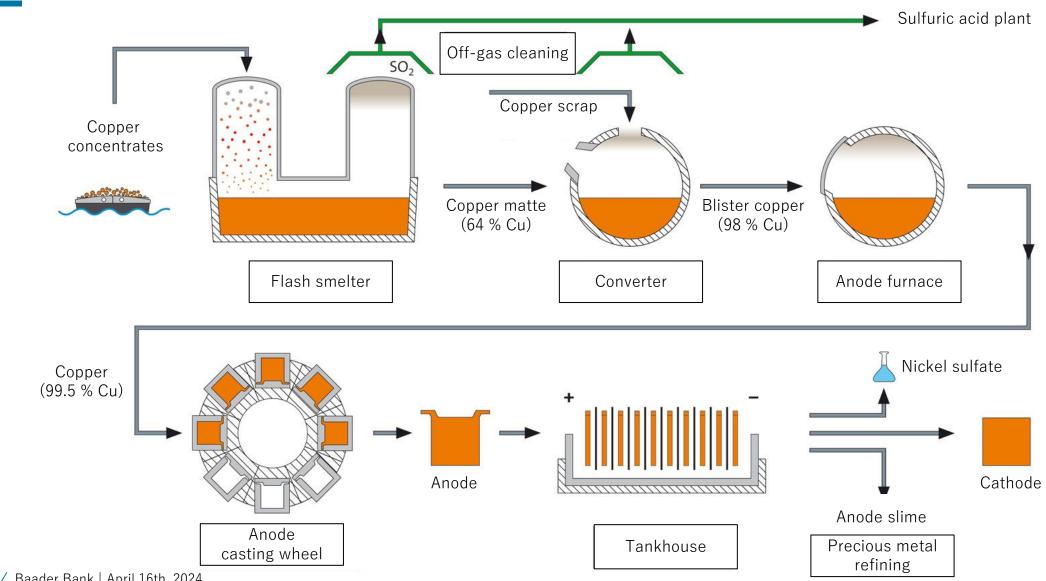


The Group is active in more than 20 countries and has production sites concentrated in Europe and North America



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.