

Investor presentation

September 2022

Forward-looking statements



This presentation contains forward-looking information that involves risks and uncertainties, including statements about Umicore's plans, objectives, expectations and intentions.

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. 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 Umicore.

As a result, neither Umicore nor any other person assumes any responsibility for the accuracy of these forward-looking statements.



Introduction to Umicore

Who we are



We deliver sustainable solutions to address global megatrends

Our products and services accelerate global **mobility transformation**, cater for the **growing need for advanced materials** and enable **even greater circularity for critical metals**

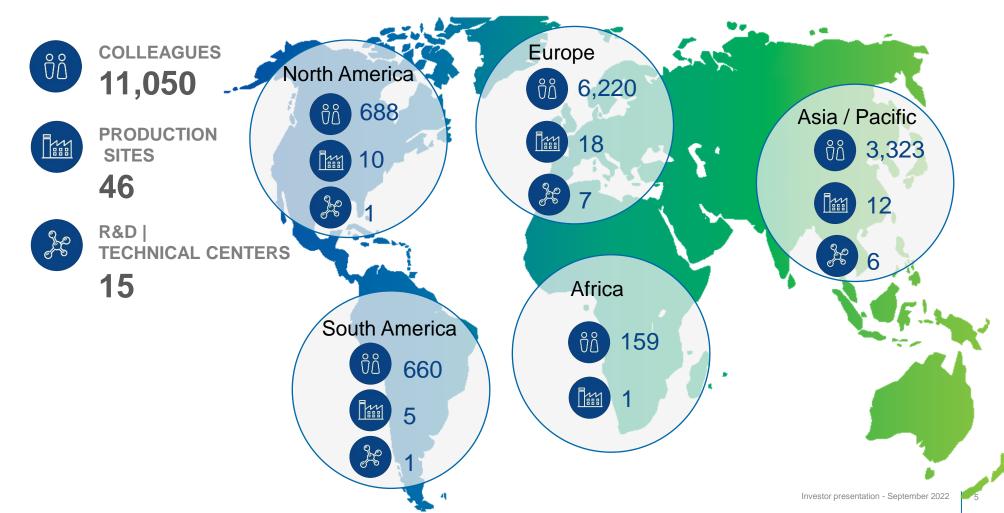
We are the leading *circular* materials technology company fulfilling its mission to create sustainable value through *materials for a better life*





A global supplier, locally





Our strongly rooted foundations

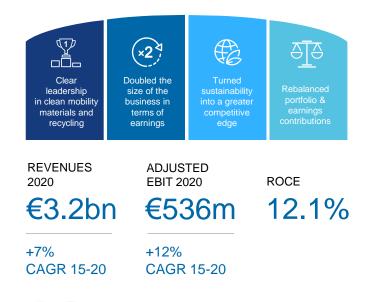




Industry leader in sustainability

Building on Horizon 2020 achievements "Fit" and ready for the future

HORIZON 2020 SUCCESSFULLY DELIVERED





PUSHING INDUSTRY STANDARDS

IN TERMS OF SUSTAINABILITY

RECORD RESULTS IN 2021



revenues €4.0bn Free Cash Flow €989m

umicore

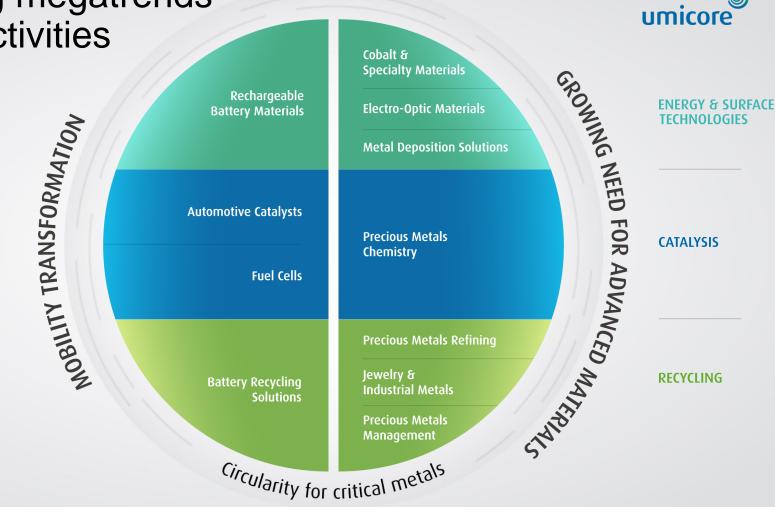
ADJUSTED EBIT €972m ROCE 22.2%

Net debt / LTM adj. EBITDA ratio, well in I.G. territory

0.77



Accelerating megatrends driving all activities



H1 2022 achievements



CATALYSIS

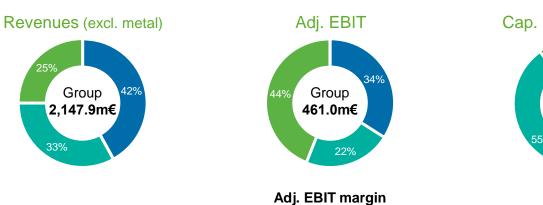
Automotive Catalysts Precious Metals Chemistry Fuel Cell & Stationary Catalysts ENERGY & SURFACE TECHNOLOGIES

Rechargeable Battery Materials Cobalt & Specialty Materials Metal Deposition Solutions Electro-Optic Materials

21.0%

RECYCLING

Precious Metals Refining Precious Metals Management Jewelry & Industrial Metals Battery Recycling Solution



Cap. Employed (av.)



ROCE 20.8%

9

limic



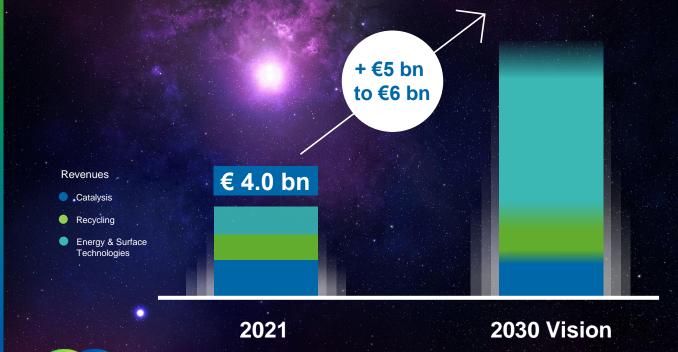


RISE pillars enabling all activities to thrive, making unicore Umicore a net beneficiary from megatrends

Unique portfolio of mutually reinforcing activities	Strong foundations and successful track record	Anticipating megatrends and embracing them as our business drivers	Sustainability deeply embedded in our DNA	
Reliable Transformation Partner	Innovation & Technology Leader	Sustainability Champion	Excellence in execution	
We listen to the voice of our customers and focus on solving their issues	We are an innovation and technology leader delivering value through innovation in metal science, metallurgy and metal chemistry	vering value through products and services and in the pos in metal science, metallurgy way we do business ope		

Mobility transformation unlocking transformational growth for Umicore





Profitable growth with adjusted EBITDA margins > 20% throughout the period

Uninterrupted value creation at Group level



Note: Based on gradual PGM prices normalization scenario and battery metal prices at 2021 levels

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Net beneficiary of a changing world



Supporting our business model

Portfolio

Synergetic, coherent, competitive

Purpose

Sustainability at the core

Umicore 2030 RISE

Writing the next chapter of Umicore as the *circular* materials technology company 2030 GROWTH >100% Revenues

Grow like a start-up

PROFIT >20% EB/rDA margin RETURN 15% ROCE

Create value as an established company

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Nobility Transformation

Circularity

umicore Mobility transformation radically accelerating Uniquely positioned to help the world transition to cleaner mobility



Combustion Engine Emission control Catalvst

Plug-in Hybrid Electric Vehicle

Battery active materials and emission control catalysts



Full Electric Vehicle Battery active

materials

Prime electrification path for light transportation

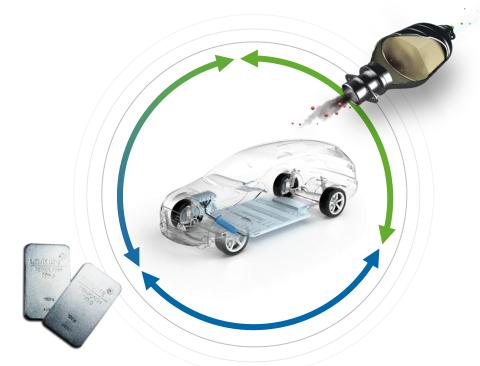
Fuel Cells Vehicle

Electro-catalyst and battery active materials

Prime electrification path for heavy transportation

Automotive Catalysts

Capture peak profitability and maximize value



Umicore catalyst technologies **prevented 2.8 million tons of NOx emissions** from being emitted into the air in 2021



Embarking the mobility transformation together with our customers

Strong technology position in light of upcoming emission legislation

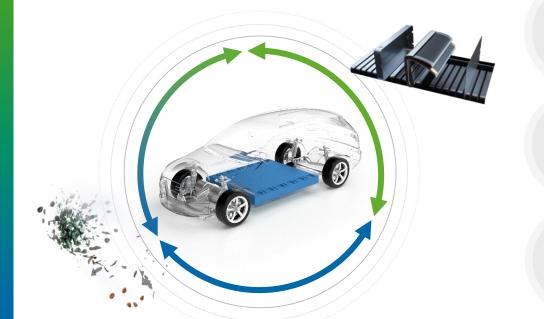


Long-standing partner in delivering cleaner air with embedded sustainability value through sustainable operations



Agility mindset and operational agility to manage the transformation

Rechargeable Battery Materials Capture profitable growth and create sustainable value



Umicore cathode materials prevented over 9.5 million tons of GHG emissions from being emitted in 2021

Considering recycling, production, processing into batteries and the use of batteries in full EVs



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R

Step-change in process, operational and organizational excellence

Value-creative strategic partnerships across the value chain

Broad technology & IP portfolio covering design-to-performance and design-to-cost applications, incl. next-gen technologies

Pioneering r materials an

Pioneering responsibly-sourced materials and becoming the driving force to decarbonize the battery value chain

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Recycled material up to 96% lower

LCA-analyses performed according the ISO14040/44

Battery Recycling Solutions Capture profitable growth in circular battery value chain

Supporting our customers with a circular offering from the start and ready to accelerate together

Long-standing materials and process technology know-how

Embedded sustainability value through sustainable recycling operations

experience gives a head start to scale

Over 10 years of pilot scale

to 150kt capacity units

CO₂ footprint vs. primary materials



R

E



Fuel Cell Catalysts Capturing the emerging growth



Umicore PEM catalysts prevented **147,000 tons of GHG emissions** from being emitted in 2021

PEM: Proton-exchange membrane Using average personal vehicle lifetime of 200,000 km



Long-term global leader in PEM fuel cell catalysts at industrial scale

Industry-leading materials in terms of durability, performance and PGM loading



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Embedded sustainability value delivering high performance solutions for zero emissions transport



Scaling-up production footprint in most cost-efficient way



Advanced Materials

Key enabling technology in various sectors

Attractive markets and differentiated technology

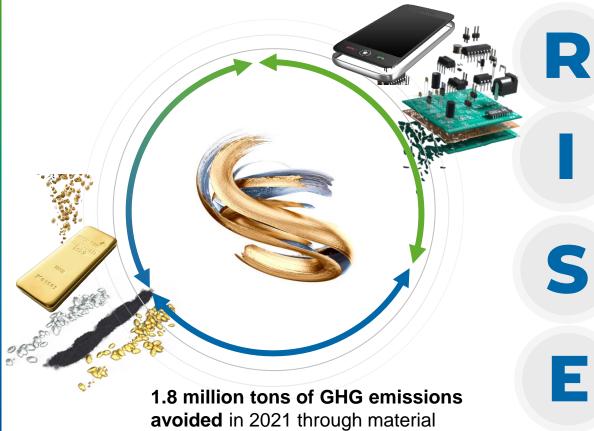
	Serving demanding high-tech applications	Synergies in R&D, metal management	Circularity = efficient and sustainable business model	Key differentiator
Cobalt & Specialty Materials	Plating, chemicals, automotive, construction		Residues from tooling and chemical industries	Flexible supply, market and application knowledge
Metal Deposition Solutions	Consumer electronics, decorative applications, automotive	Co Ni Li W Cu Se Ta Sn	Residues from electroplating baths	Application knowledge, technical support
Electro-Optic Materials	Space, optics and electronics	V Mo Sb Cr	Ge bearing residues	Superior performances through quality and purity, recycling
Precious Metals Refining	Metal recycling and refining industry	Mn Cd In Te Re Pb Bi Zn	Recycling 17 metals	Ability to process complex streams, customer service
Precious Metals Management	Precious metal consumers (internal and external)	Au Ag Pd Pt	Traceability	Market knowledge, security of supply
Jewelry & Industrial Metals	Jewelry, high-purity glass, chemicals	RhRuGeAsSeIrGa	Recycling Gold, Silver, Platinum from jewellery and industrial applications	Application and market knowledge, closed-loop offering
Precious Metals Chemistry	Life science, fine chemicals		Closed-loop offering (with PMR)	Chemical synthesis of complex metal based molecules



Precious Metals Refining

Leadership in sustainable, complex and low carbon recycling





Trusted partner for more than 20 years, recovering 17 different metals from more than 200 complex waste streams

Offering superior metal yields touching the full metal value chain with leading CO₂ performance with next generation technology

Responsibly sourced materials at the heart of our operations

input mix & recycling

Enhance operational excellence through digitalization and automation and continuous debottlenecking



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Let's Go for Zero

the ambitions behind being a Sustainability Champion



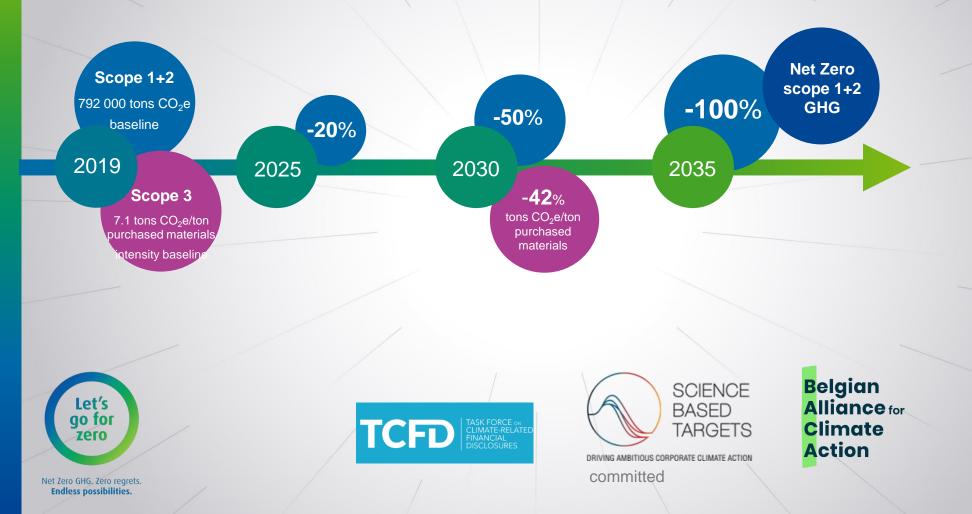
Net **Zero** GHG emissions by 2035

Let's go for zero harm Zero inequality

> Net Zero GHG. Zero regrets. Endless possibilities.

Net Zero GHG emissions by 2035





Zero inequality



WHERE WE ARE TODAY **11,050** Group employees

25%

Women in management

21.6% Non-Europeans in senior management

WE

GO FOR

75 Nationalities Gender parity in management as soon as possible, with 35% women in management by 2030

Increased cultural diversity

in management teams by 2025

Measuring and disclosing **Pay Equality**

Net Zero GHG. Zero regrets. Endless possibilities.

Let's go for

zero

Zero harm





- Minimizing impact on the environment
- -25% diffuse emissions by 2025 with continuous improvement of other types of metal emissions
- New water stewardship
 program

Wellbeing @ work

Zero work related injuries

Zero excess exposure

Mental, physical, occupational and social **wellbeing** at work **for all**



Sustainable sourcing champion

Driving positive impact in the value chain

PLATINUM

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ecovadis Sustainability

Net Zero GHG. Zero regrets. Endless possibilities.

Let's go for

zero



Unicore 2030 – RISE Growth, returns and cashflows

Horizon 2020 strategy financial targets



Delivered on financial targets

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horizon 2020	2015 – 2020 T	argets	2020 Values	2021 Values
	CAGR revenues	s of 7 %	7 %	9 %
Accelerating profitable growth	CAGR adj. EBITD	A of 8 %	12 % 18 %	
	Double adj. EBIT to € 0	.5bn by 2020	Achieved in 2018	Tripled by 2021
High investments & strong returns	Group ROCE > 15 %		12.1 %	22.2 %
Delivered on top-line growth ambition	Not at the detriment of margins – double digit earnings growth	Strong value creation notwithstanding ROCE headwinds due to delayed capacity utilization in Rechargeable Battery Materials in China		Record 2021 results with record precious metal prices as accelerator



Horizon 2020 strategy drove step-change Doubled in size : earnings, capital employed and value





Balanced earnings growth across different business groups

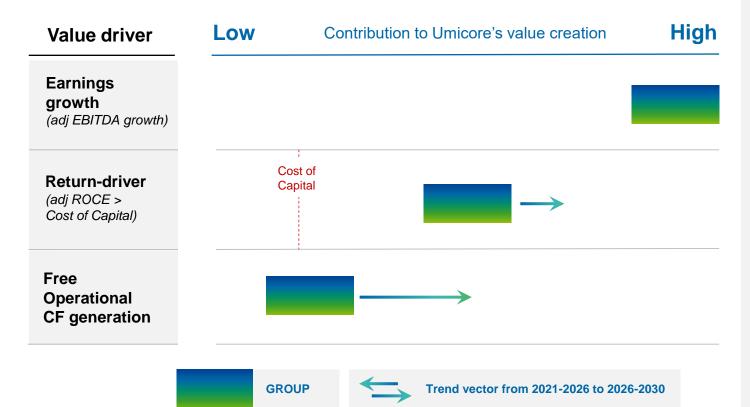
		2010	0.12.		2021
Workforce ('000)		8.8	+ 26 %		11.1
Revenues (€ bn)		2.3	x 1.7		4.0
adj EBITDA (€ bn)		0.47	x 2.7		1.25
Average Capital Employed (€ bn)		2.2	x 2.0		4.4
Enterprise Value (€ bn)		4.5	x 2.1		9.6
Market Cap (€ bn)		4.2		x 2.1 ~ 1	5 % 8.6
	_		_	annua	al TSR
Doubled size of the Group driven by strong underlying market growth and accelerated by metal prices	in ge	Substantial growth investments, yet to generate full paybac potential		Strong double digit shareholder returns (with increased volatility in recent years)	

2015 — STEP CHANGE \longrightarrow 2021



Enterprise Value and Market Cap calculated end of calendar year TSR = Total Shareholder Return = Market Cap accretion (eoy) + dividend payout Workforce = fully consolidated entities

Differentiated sources of value creation Balancing growth, returns and cash flows for the Group



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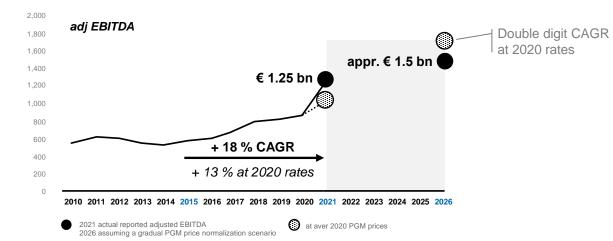
- Attractive earnings growth driven by Rechargeable Battery Materials & Battery Recycling Solutions
- Group growth rate depends
 on metal prices
- Group returns above Cost
 of Capital across the plan despite
 sizeable growth investments
- Reinvest significant free cash flows of Catalysis & Recycling in E&ST
- Cash flow payback as from second half of decade

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Umicore Group earnings growth ambition



Secular earnings growth while maintaining attractive historical margins



	2021	2026 ambition	2030 vision	
Revenues	€4bn	+ € 2.5 bn to € 3 bn vs 2021	+ € 2.5 bn to € 3 bn vs 2026	
adj EBITDA <i>margin</i>	€ 1.25 bn <i>31 %</i>	appr. € 1.5 bn > 20 %	> 20%	
		Phased growth conditional upon value creative returns from contracts		

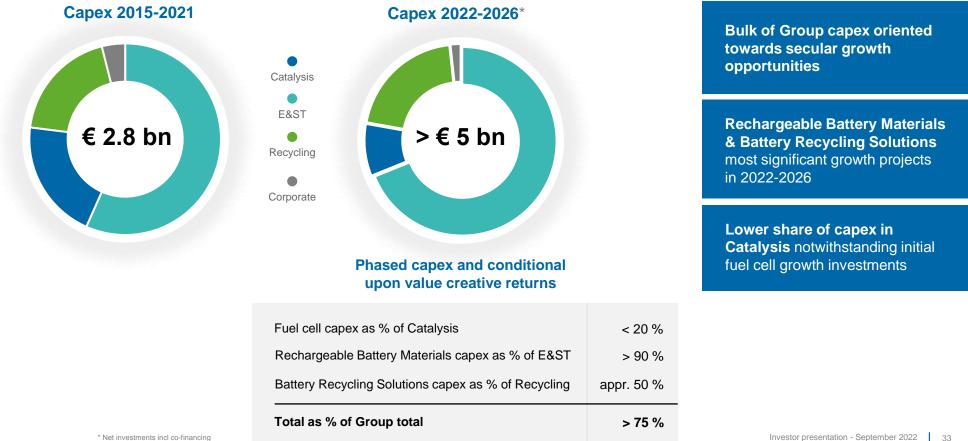




Growth investments to accelerate



Over 3/4th of Group capex in battery materials, battery recycling & fuel cells

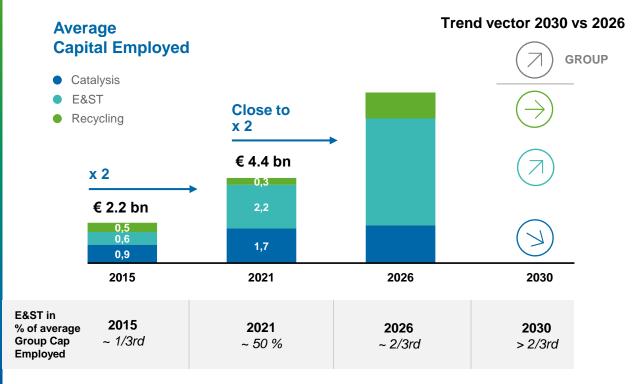


* Net investments incl co-financing

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Capital allocation shift to accelerate Doubling of capital employed subject to value creative returns





Close to doubling of average capital employed by 2026 (vs 2021) driven by Rechargeable Battery Materials & Battery Recycling Solutions

Catalysis

stable base up to 2026 (incl. fuel cell investments); significantly lower base as from mid-decade; substantial working capital release anticipated

E&ST

grow to appr. 2/3rd of group capital base driven by Rechargeable Battery Materials expansion

Recycling

increase in capital base through large scale Battery Recycling plant & ESG investments in Hoboken

Further growth beyond 2026 depending on growth pace in Rechargeable Battery Materials and Battery Recycling Solutions

Capital allocation shift to accelerate

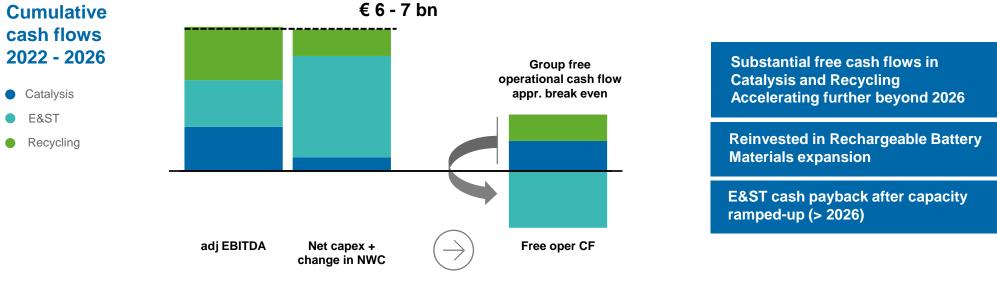


Group returns above cost of capital with some temporary dilution in E&ST

Catalysis		E&ST		Recycling		GROUP		
ROCE 2015 - '20 average – ~14 % Lower capital employed base drives higher returns		ROCE 2015 - '20 average – ~11 % Near-term returns dampened by Rechargeable Battery Materials' growth costs and investments. Above cost of capital shortly after 2026		ROCE 2015 - '20 average – ~37 % Highly value-creative returns on higher capital base incl. Battery Recycling; assumes normalized PGM prices		ROCE 2015 - '20 average – ~14 % Stay above cost of capital across the plan and create substantial value towards end of decade once mid- decade investments are ramped-up		
								2026 ambition ~ 20 %

Operational cash flow profile

Substantial free cash flows in Catalysis & Recycling reinvested into E&ST



Potential for substantial operational free cash flows after 2026 depending on level of growth investments to accommodate post-2030 growth

Group total includes Corporate Free Operational CF defined as adj EBITDA – equity accounted contribution – Capex – change in NWC Net capex includes co-financing



electrification-focused
projectsfor capacity
assurances &
technology
commitmentreturn for sharing the
returnsestablished player
with proven
technology and
industrialization skillsconditional upon
business & return
visibility.

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Funding levers From full autonomous funding to co-funding partnership model

Policy unchanged : Maintain Investment Grade status

Embedded in group strategy				Optional	
Strong free operational cash flow generation	ESG- focused debt funding appetite	Co-funding partnership model	Joint Venture investment sharing	Grants and other funding incentive mechanisms	Capital Market funding
Catalysis & Recycling as strong free cash flow generators	Leverage on growing debt appetite & capacity in the market for ESG- and electrification-focused projects	Customers open to participate in operational funding in return for capacity assurances & technology commitment	Selective strategic JV set-ups allow to share the upfront investment burden in return for sharing the returns	Access substantial support funding for the electrification transformation as an established player with proven technology and industrialization skills	To accelerate Rechargeable Battery Materials expansion, conditional upon business & return visibility.





Financial review H1 2022

Strong performance in H1 2022 Key figures



Umicore delivers first-half performance in line with Q1 outlook, in a challenging market context, and makes good progress in the execution of the "Umicore 2030 – RISE" strategy

REVENUES € 2.1 bn Stable YoY	Adjusted EBIT € 461 m -26% YoY	Free Operating Cash Flow € 320 m Net debt stable at € 955 m Net debt / LTM Adj. EBITDA 0.88x
Adjusted NET PROFIT (Group share)	Adjusted EBITDA € 601 m	CAPEX € 190 m
€ 321 m Adjusted EPS € 1.34 Interim dividend of € 0.25 per share	-21% YoY	ROCE 20.8%

Note: All references to revenues in this document refer to revenues excluding metals (all revenue elements - value of purchased metals)

Key highlights of H1 2022



Strong performance despite market environment characterized by significant external challenges

<u>Catalysis</u>: outperforming global car market driven by further market share gains in light-duty gasoline; adj. EBIT slightly below H1 2021 record level

Energy & Surface Technologies: strong performance of Cobalt & Specialty Materials and positive impact from unexpected spike in lithium price in Rechargeable Battery Materials

<u>Recycling</u>: second-highest level performance in business group history, despite lower precious metal prices

Strong operational cash flows including a less than anticipated increase in net working capital, resulting in stable net financial debt compared to end of 2021

Active implementation of RISE 2030 strategy with key milestones achieved

In Rechargeable Battery Materials:

- Further build-out of long-term, value creative customer partnerships
- Inauguration of new global R&D center in Korea and agreement with Idemitsu Kosan Co. to jointly develop catholyte materials for solid-state batteries
- Announced plans to build local production footprint in Canada; important step in global rollout of regional supply chains to three continents
- Start of production in greenfield CAM plan in Nysa, Poland

Ambition to achieve net zero Scope 1 and 2 GHG emissions by 2035 complemented with ambitious target for Scope 3: 42% reduction of CO2e/ton of purchased materials by 2030

Strong Adj. EBIT(DA) and margins Close to 1H 2021 exceptional record performance despite challenging market context



Adj. EBIT & Adj. EBIT margin 28,6% 700 600 21,0% 625 8,5% 500 15,2% 15,9% 14,3% 15,3% 15,3% 400 2 300 346 200 293 269 243 240 100 0 2018 2018 2019 2019 2020 2020 H2 2021 H1 2022 202, 얻 ÷ 읻 Ŧ Ŧ 4 Ŧ

Adj. EBITDA & Adj. EBITDA margin



- Adjusted EBIT of € 461 million, down 26% compared to record level of H1 21 and up 33 % compared to H2 21
 - Strong operational performance
 - Less favourable precious metal price environment, volatile battery materials metal prices
 - Impact of higher costs linked to general cost inflation and innovation
 - Net forex tailwind

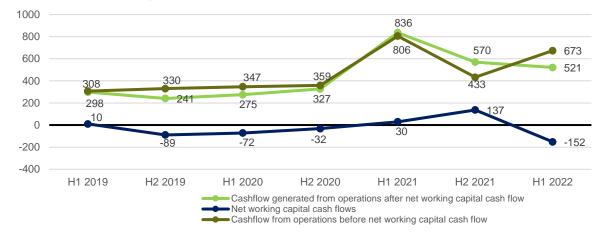
Adjusted EBITDA of € 601 million, down 21% compared to H1 21 and up 23 % compared to H2 21

Adjusted Group D&A slightly up

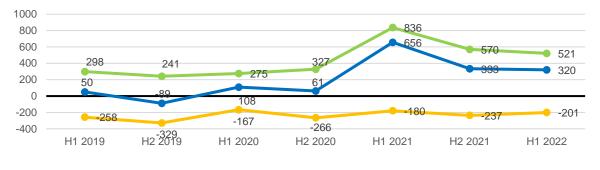
Continued margin uptrend following H1 21 peak

Strong free operating cash flow generation

million €, continued operations only



million €, continued operations only



Cashflow generated from operations after net working capital cash flow
 Capex + capitalized development expenses
 Free cashflow from operations



Cash flow from operations after changes in working capital at € 521 million

Smaller than anticipated increase in cash working capital of € 152 million, reflecting working capital management, temporary positive effects in the month of June and lower than expected metal prices.

NWC increase in E&ST mitigated by a decrease in Catalysis and Recycling.

Free cash flow from operations of € 320 million

Capex and capitalized development expenses slightly up year on year to \in 201 million

E&ST accounting for 2/3rd of Group capex, driven by RBM

Continued focus on capex efficiency across businesses

Net cash flow bridge

million €

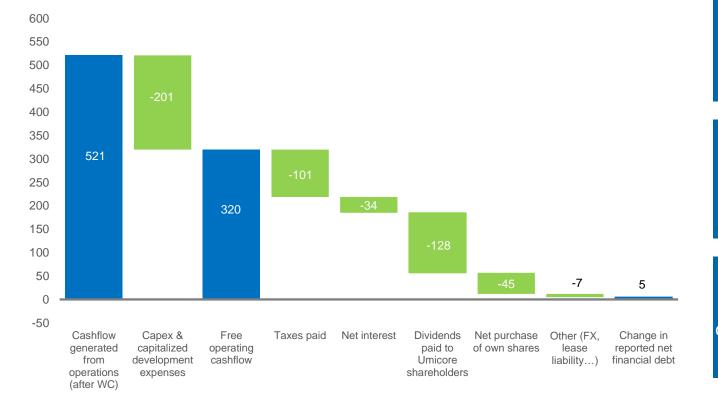
Stable net financial debt versus end 2021



Free operating cashflow of € 320 million, including € 152 million increase in working capital and € 201 million investments.

Funded a combined € 308 million cash outflow related to taxes, net interest charges, dividends & net purchase of own shares.

Resulting in a stable net financial debt vs December 2021 and a corresponding strong leverage ratio (0.88x LTM adj EBITDA).



Full P&L



Million €	H1 2021	H1 2022
Adjusted EBIT	625	461
- Net finance cost	(52)	(46)
- Adjusted Tax	(140)	(92)
Adjusted net result	433	323
- Minorities	(5)	(1)
Adjusted net result Group share	428	321
Adjusted EPS	1.78	1.34
Adjustments to EBIT	(39)	(20)
Adjustments to net result Group	(28)	(12)
Net result Group share	400	309

Adj. EBIT below last year's record level, reflected in lower Net result Group share

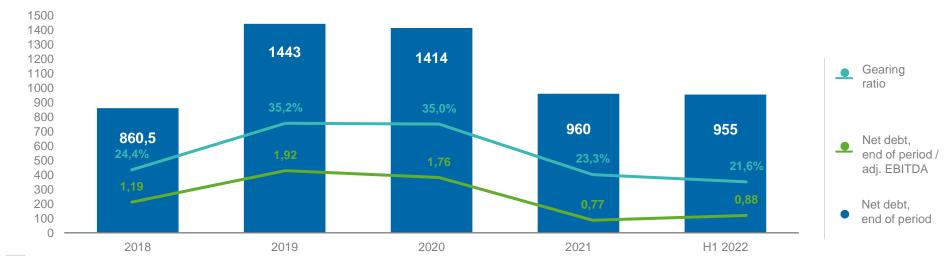
Decrease in adjusted net financial cost due to lower forex charges more than offsetting higher net interest charges

Lower adjusted tax charges reflecting the lower year on year taxable profit, as well as a lower adjusted effective group tax rate (22.8 % vs 24.9 %).

Limited adjustments to EBIT of - € 20 million, mainly linked to environmental provisions.

Solid capital structure





million €

€ 1.0 billion free-cash-flow in 2021, drove the decreasing net debt and a gearing ratio down to 0.77x End of H1 2022 corresponds to : 0.88x net debt to adj. EBITDA ratio 21.6% gearing ratio



2022 Outlook

Umicore expects another strong performance in 2022 across business groups in a severely disrupted market context

Based on the performance in the first half of the year and assuming precious metal prices remain at current¹ levels for the remainder of the year, Umicore expects its adjusted EBIT for the full year 2022 to be somewhat above consensus², including some € 220 million uplift from precious metal prices versus 2020 (taking into account the effect of strategic hedging).

This outlook incorporates a cost inflation headwind estimated less than € 150 million for the full year, excluding offsetting measures such as pricing, and assumes no further significant disruptions to the economy or Umicore's operations from geopolitical developments, the pandemic or additional supply-chain constraints.

¹ Current refers to the date of this publication i.e., 29 July 2022

² Umicore has engaged Vara Research GmbH to survey brokerage analysts to provide analysts' consensus estimates to the market. The most recent consensus is available on <u>https://vara-services.com/umicore/</u>. Consensus adjusted EBIT for Umicore Group in 2022 amounted to € 828 million at the time of this publication.

Guidance for full year 2022





It is anticipated that car production will remain impacted by the ongoing supply disruptions. Notwithstanding the related limited visibility, Umicore expects to continue to benefit from its strong market position in gasoline applications. Taking into account the strong performance in the first half of the year and the current assumptions on volumes for 2022, adjusted EBIT in **Catalysis** for the full year is expected to be close to the record level achieved in 2021, somewhat above consensus¹, despite the impact of cost inflation.



Based on the first-half performance and anticipating a normalization in Cobalt & Specialty Materials, Umicore expects adjusted EBIT in **Energy & Surface Technologies** for the full year 2022 to be above the level of the previous year and above current consensus expectations².



Umicore expects adjusted EBIT for **Recycling** for the full year 2022 to be in line with current consensus³. This is based on the assumption that current precious metal prices will continue to prevail. This also takes into account a somewhat improved supply mix in Precious Metals Refining compared to the first half.

As announced previously, **Corporate** costs are expected to continue to increase above inflation in 2022 as Umicore is committed to its longer-term innovation and digitalization and is preparing its systems and organization for future expansion.

¹ Catalysis adjusted EBIT for the FY 2021 amounted to 326 m€, Vara Research consensus adjusted EBIT for Catalysis amounted to 281 m€ at the time of this publication

² Energy & Surface Technologies adjusted EBIT for FY 2021 amounted to 139 m€ Vara Research consensus adjusted EBIT for E&ST amounted to 148 m€ at the time of this publication

³ Recycling adjusted EBIT for the FY 2021 amounted to 573 m eVara Research consensus adjusted EBIT for Recycling amounted to 475 m e at the time of this publication



Key Investment Considerations



Net beneficiary of a changing world



Supporting our business model

Portfolio

Synergetic, coherent, competitive

Purpose

Sustainability at the core

Umicore 2030 RISE

Writing the next chapter of Umicore as the *circular* materials technology company 2030 GROWTH >100% Revenues PROFIT >20%

EB

margin

RETURN

15%

ROCE

Grow like a start-up

Create value as an established company

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umicore

Creating value as an established company while growing as a start-up company

- Well-diversified business profile with broad product, end-market and customer base driven by a common theme of sustainability and ever-growing megatrends, source of varied and synergetic value-creating growth.
- Strong track record of and commitment to innovation to maintain competitive lead (R&D spending of ~6% of revenues in 2021)
- Robust financial performance across cycles and strong balance sheet, while continuously investing in growth
- **Experienced** board, management team, and clear governance principles
- Record earnings in 2021 building on strong underlying operational performance in all business groups demonstrating the merits of the strategy building on complementary activities and further supported by an exceptional precious metal price environment.



Annexes



Business Group Overview



Catalysis



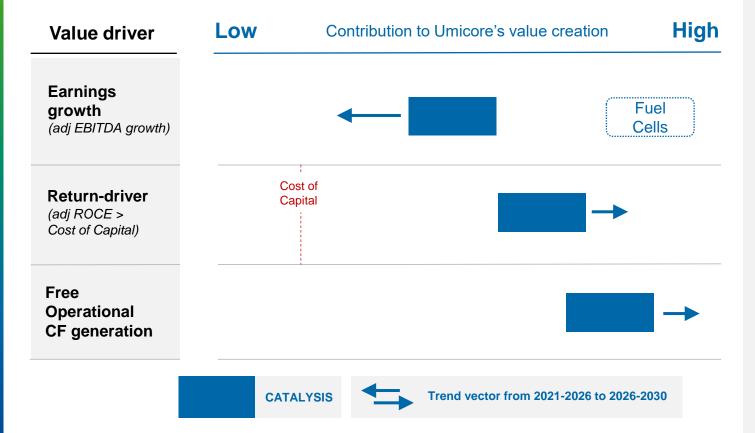
Catalysis overview



Automotive Catalysts	We are one of the leading producers of emission control catalysts for gasoline and diesel on-road and non-road applications, power generation and industrial processes to meet environmental standards around the world.	PtPdRhTiVW
Precious Metals Chemistry	We are experts in metals-based catalysis for life-enhancing applications. Emission treatment technologies, cancer treatments, the production of fine chemicals and advanced electronics – all are made possible by our organometallic technology knowhow.	Pt Pd Ru Rh Ag Co Au Ir Ga
Fuel Cell & Stationary Catalysts	We are a leading player in emissions control catalysis for industrial plants and shipping, and supply state-of-the-art fuel cell catalysts for zero emission mobility and green hydrogen production.	Pt Pd Rh Ti V W

Catalysis





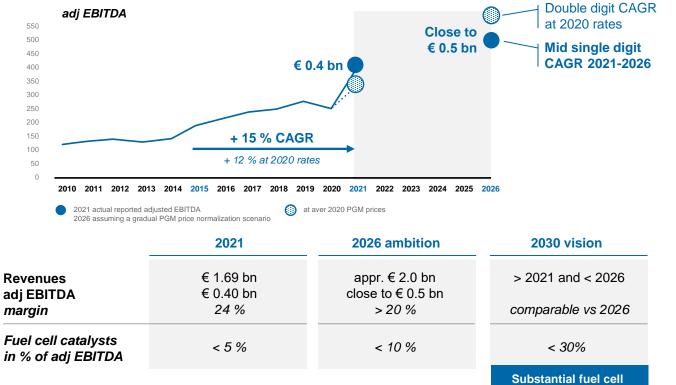


- Capture unprecedented value peak in Automotive Catalysts in the decade
- Prepare growth acceleration in fuel cell catalysts after mid-decade
- Reduction in Cap Empl in Automotive Catalysts to drive high(er) returns
- Initial payback in fuel cells towards end of decade (lower capital intensity)
- High free cash flows over the plan
- Transition from growth to free cash flow focused business model in Automotive Catalysts

Catalysis



Committed to capture medium-term growth while driving efficiency & cash



Attractive medium- term growth from car market recovery, final legislation cycle and HDD expansion

Maintain margins above historical average through continued operational efficiency focus

Substantial free cash flows accelerating as from mid-decade

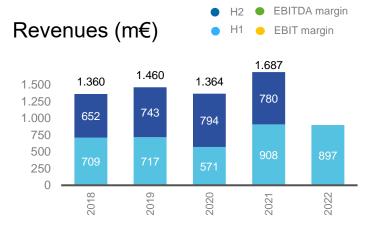
Strong position in fuel cells with meaningful growth contribution as from mid-decade and material contribution as from next decade

Catalysis H1 2022

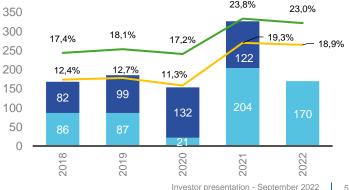
Revenues -1% and adj. EBITDA margin at 23%

- Strong performance despite significant disruptions in global ٠ industries and supply-chains
- Automotive Catalysts ٠
- Outstanding performance against challenging backdrop ٠
- Volumes down less than market, reflecting strong market position and ٠ market share gains in gasoline technologies for LDV
- Revenues broadly flat YoY with product mix offsetting lower volumes. ٠ Earnings well up sequentially and close to H1 2021 record level despite cost inflation
- Precious Metals Chemistry ٠
- Higher revenues driven by strong demand for homogenous catalysts and ٠ inorganic chemicals
- **Fuel Cell & Stationary Catalysts** ٠
- Lower revenues from PEM fuel cell catalysts reflecting COVID-19 ٠ lockdowns in major Chinese cities resulting in postponements of customers orders





Adjusted EBIT (m€) & EBIT(DA) margin





Zoom in on Automotive Catalysts (AC) and Fuel Cell & Stationary Catalysts (FCS)

Catalysis: capture peak in Automotive Catalysts and emerging growth in Fuel Cells



Fuel Cells: prepare growth acceleration after mid-decade

Automotive Catalysts: extending value capturing through presence in most attractive market segments with right technology

- Strong position in light-duty gasoline;
 segment benefiting most from upcoming emissions legislation
- Growing share in HDD segment in China and Europe

Continued focus on maximizing business value

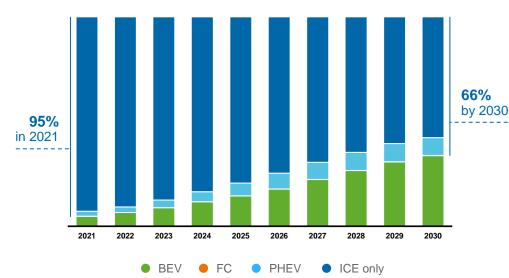
\bigotimes	2022-2027		2028-2	030
Continued focus	Continued	Technology value	Keep capacity utilization high (>85%) and align operations with market evolution	Annual fixed cost
on high-capacity	focus on process	pricing as core		reduction of € 100 Mn
utilization (>85%)	efficiency	principle		in 2030

~ € 3 billion cash delivered between 2022 and 2030

Accelerating mobility transformation ICE remains dominant powertrain solution in 2030

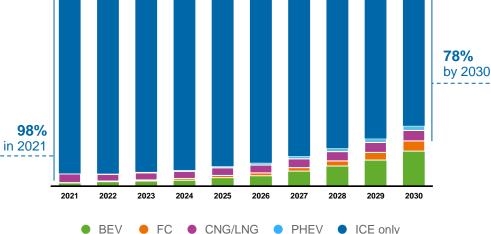


Light-duty vehicles



Proportion by powertrain in global production Source: Umicore market model - LDV

Heavy-duty vehicles Proportion by powertrain in global production Source: Umicore market model - HDV (incl. medium-duty vehicles, on-road vehicles only)

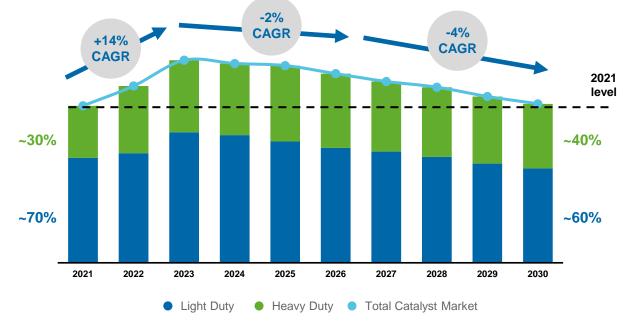


BEV: battery electric vehicle FC: fuel cell vehicle PHEV: plug-in (hybrid) vehicle CNG/LGN: Compressed natural gas / Liquefied natural gas

ICE: internal combustion engine (gasoline/diesel) only

Attractive value to capture the next decade unic Emission catalyst market moving towards unprecedented value peak





Value growth driven by market rebound and tighter legislation for light-duty and heavy-duty vehicles

Total addressable market in 2030 still exceeding addressable market in 2021

Attractive market profile – Ability to capture peak profitability and afterwards generate significant amount of free cash flow

Source: Umicore market model – LDV and HDV (includes emissionized Heavy-Duty and Medium-Duty Vehicles; on-road only)

Automotive Catalysts – RISE Capture peak profitability and maximize value



Capture maximum value from market peak

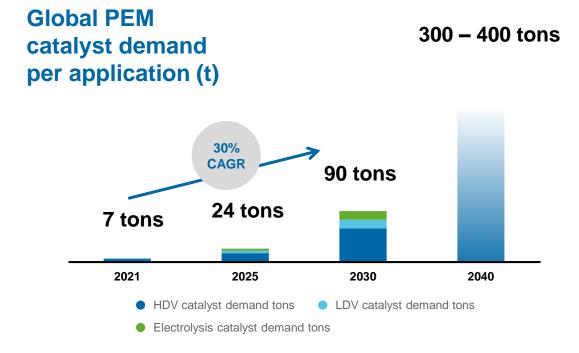
- Maintain strong position in lightduty gasoline catalysts globally
- Continued growth in heavy-duty catalysts in China and Europe

Maximize business value throughout the plan

R Reliable Transformation Partner	Innovation & Technology Leader	S sustainability Champion	Excellence in execution
EMBARKING THE MOBILITY TRANSFORMATION TOGETHER WITH OUR CUSTOMERS	STRONG TECHNOLOGY POSITION IN LIGHT OF UPCOMING EMISSION LEGISLATION	LONGSTANDING PARTNER IN DELIVERING CLEANER AIR	ORGANIZATIONAL AGILITY THROUGH THE DIFFERENT TRANSFORMATION STAGES

Throughout period: € ~3 Bn total cash delivered and critical talent pool, supporting Umicore growth ROCE ~20% in 2030 and adj. EBITDA margin ~20%

PEM catalyst market to witness exponential growth towards 2040





Strong regulatory support for hydrogen economy in Europe and APAC region

PEM catalyst demand to grow exponentially as of 2025 driven by increasing penetration of fuel cell HDV as well as electrolysis

Global addressable market of 90t for Umicore by 2030

Source: Umicore market model (HDV incl. MDV)

Fuel Cells – RISE Capture emerging growth as leading fuel cell catalyst provider



Head start, based on proven technology leadership Profitable today and value accretive throughout period





Energy & Surface Technologies



Energy & Surface Technologies overview unicore

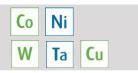
Rechargeable Battery Materials We are a pioneer in battery materials and a leading cathode material supplier for rechargeable lithium-ion batteries, giving added range and performance to electric vehicles, and longer battery life for portable electronics.

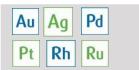


Cobalt & Specialty Materials We are experts in sourcing, production and distribution of cobalt and nickel products. Our materials are at the heart of everyday products such as rechargeable batteries, tools, paints and tyres. Our recycling and refining processes, give new life to cobalt and other metals.

Metal Deposition Solutions We are one of the world's leading suppliers of products for (precious) metal-based electroplating and PVD coating of surfaces in the nano and micrometre range. Our solutions for the highest demands are used in many products of daily use or enable their production in the first place.

Electro-Optic Materials We are a leading supplier of material solutions for the space, optics and electronics sectors, including products for thermal imaging, wafers for space solar cells, high brightness LEDs and chemicals for fiber optics.



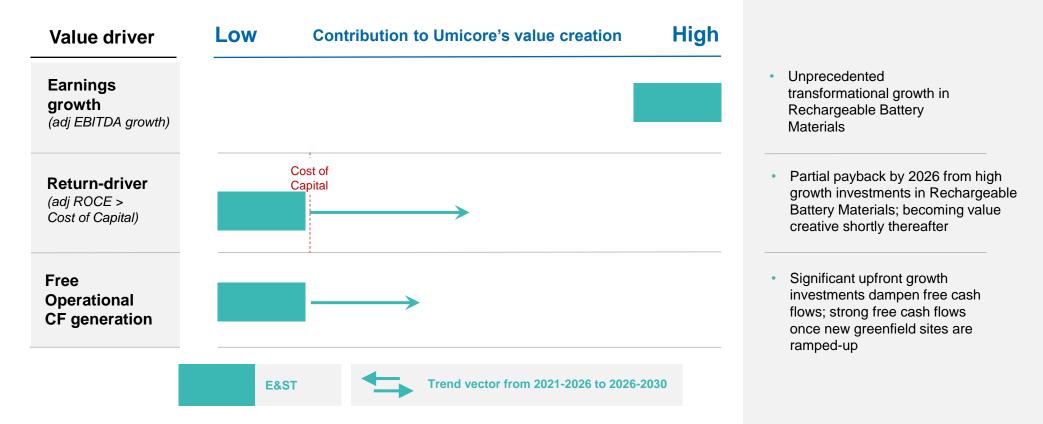








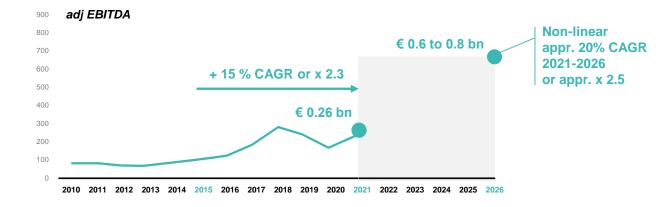
Balancing growth, returns and cash flows







Rechargeable Battery Materials to drive transformative growth



Step-change in revenues & earnings as from mid-decade driven by Rechargeable Battery Materials

Robust underlying EBITDA margins despite impact from substantial upfront growth & start-up costs. Margin increase after 2026

Material but phased investments conditional upon value creative returns

Non-Rechargeable Battery Materials businesses target selective growth, maintaining + 20% adj EBITDA margins

	2021	2026 ambition	2030 vision
Revenues	€ 1.17 bn	+ € 2.5 bn to € 3 bn vs 2021	+ € 2.5 bn to € 3.5 bn vs 2026
adj EBITDA margin	€ 0.26 bn 22 %	€ 0.6 to 0.8 bn < 20 %	higher vs 2026
····· J···	//	Phased growth conditional upon value creative returns from contracts	

E&ST H1 2022

Revenues +21% and adj. EBIT +44%, reflecting higher revenues and earnings in Cobalt & Specialty Materials and Rechargeable Battery Materials

Rechargeable Battery Materials

As anticipated and announced in December, cathode material volumes were subdued

Volumes headwinds more than offset by positive impact from unexpected spike in lithium price

Cobalt & Specialty Materials

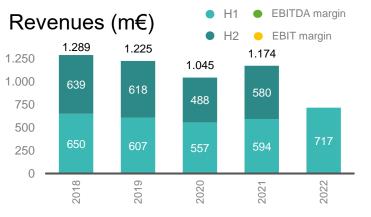
Continued, exceptionally strong market demand in combination with favorable cobalt and nickel price environment in cobalt and nickel chemicals and related distribution activities

Metal Deposition Solutions

Stable revenues with higher order levels of decorative and platinized applications compensating lower demand for precious metal-based electrolytes

Electro-Optic Materials

Slightly higher revenues driven by strong demand for germanium substrates from the space and automotive industry



Adjusted EBIT (m€) & EBIT(DA) margin





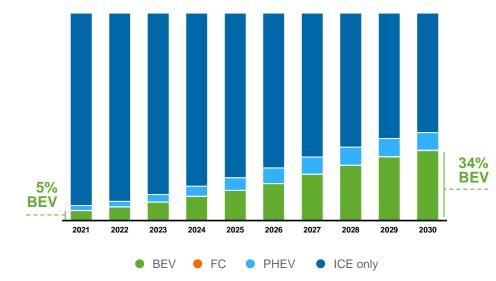


Zoom in on Rechargeable Battery Materials (RBM)

Electrification increasing at fast pace, triggered unicore by regulatory push and OEM commitments

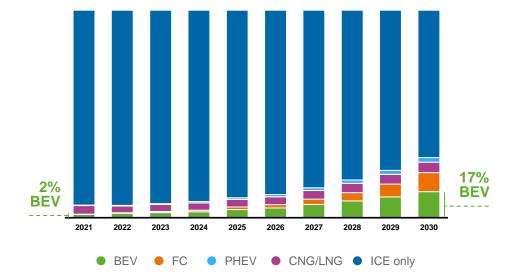
Light-duty vehicles Proportion by powertrain in global car production

Source: Umicore market model



Medium- and Heavy-duty vehicles Proportion by powertrain in global car production

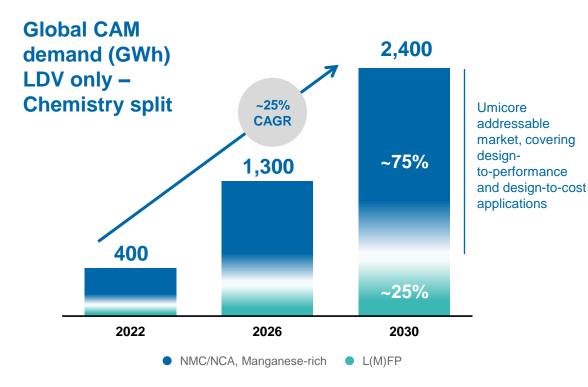
Source: Umicore market model



BEV: battery electric vehicle FC: fuel cell vehicle CNG/LGN: Compressed natural gas / Liguefied natural gas ICE: internal comb

PHEV: plug-in (hybrid) vehicle ICE: internal combustion engine (gasoline/diesel) only

Umicore chemistries addressing ~75% of total Light-duty EV CAM demand



Evolving technologies reflecting car OEMs' need for performance- and cost-focused solutions

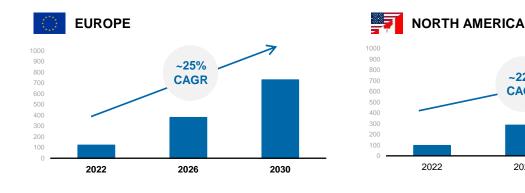
NM(C) chemistries (incl. Mn-rich) represent vast majority of EV CAM demand in 2030

Solid-state batteries expected to gain traction based on NMC, with a single digit market share expected towards 2030

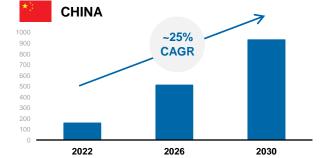
Source: Umicore market model

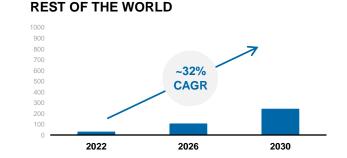
umicore >20% annual market growth across all regions

CAM demand (GWh) across regions LDV only



Europe, China and North America expected to represent ~90% of total LDV **CAM** demand





~22%

CAGR

2026

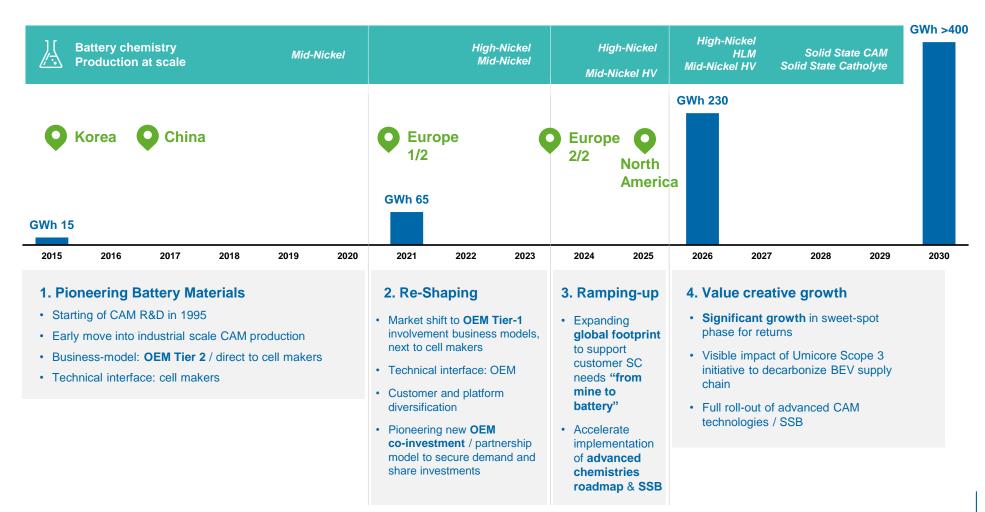
2030

Ongoing regionalization of supply chain:

- Geopolitical context •
- **OEMs'** sustainability • considerations
- Security of supply

Source: Umicore market model

Rechargeable Battery Materials - the plan to 2030 unicore

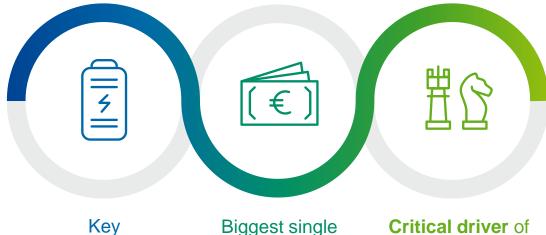




Cathode active materials crucial for the mobility transformation ...



CAM critical component determining electrification success



Key technological lever for battery performance Biggest single contributor to overall battery cost Critical driver of long-term cell technology strategy

... requiring critical competences and skills for CAM producers to succeed



Product

Process



High performance and quality product with customized end specs

Joint development with customers and partners

Strong technology and IP portfolio and continuous innovation



Mastering **complexity and flexibility** of production process

Continuous industrialization and process innovation

Extensive quality and purity control

Supply



Strategic access to raw materials – low carbon intensity, highest ESG requirements

Metal refining expertise enhancing supply flexibility

Regionalized production footprint along value chain

Ample opportunities for differentiation and gaining advantage over competitors



Rechargeable Battery Materials – RISE Capture profitable growth and create sustainable value

Extend leadership in Europe —— Enter North America	R Reliable Transformation Partner	Innovation & Technology Leader	S Sustainability Champion	E Excellence in execution
with local production —— Reinforce market position in Asia	VALUE CREATIVE STRATEGIC PARTNERSHIPS ACROSS THE VALUE CHAIN	TECHNOLOGY & IP PORTFOLIO COVERING PERFORMANCE & COST	KEY PARTNER IN TRANSITION TO LOW CARBON MOBILITY	STEP-CHANGE IN PROCESS, OPERATIONAL AND ORGANIZATIONAL EXCELLENCE

Sustainable EBITDA growth with margins ~ 20% in 2030 Value accretive after 2026



Recycling



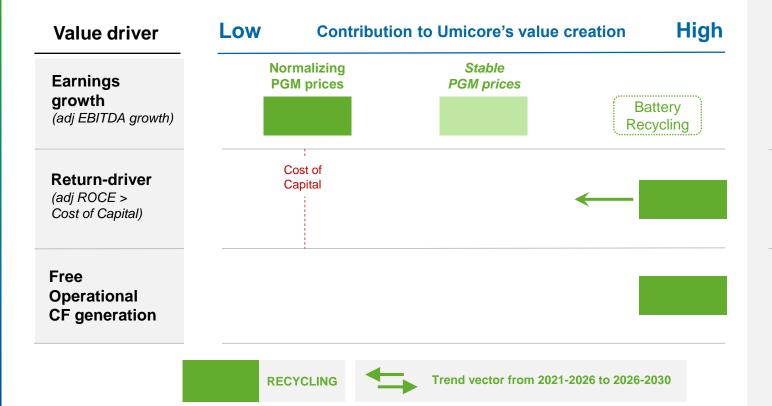
Recycling overview



Precious Metals Refining	We operate the world's most sophisticated precious metals recycling facility and we are experts in treating the most complex materials. Our refining and recycling technology gives used metals a new lease of life. Our processes help bring value to the circular economy.	AgTeSbIrPtBiPbAuSnInAsNiSeRuPdRhCu
Precious Metals Management	We supply and handle all precious metals, ensuring physical delivery by using both the output of our precious metals refineries and our network of industrial partners and banks. We offer our customers tailor-made solutions for delivering, hedging and trading precious metals.	AgPtAuIrRuPdRh
Jewelry & Industrial Metals	We are experts in developing products and processes based on precious metals such as gold, silver and platinum. Our customers use these materials to make fine jewelry, coins, high-purity glass and industrial catalysts. We provide our customers with sustainable and responsible sourcing of these metals and closed-loop recycling.	Ag Au Pt Pd Rh
Battery Recycling Solutions	Our leading technology closes the loop for rechargeable batteries. We use proprietary high-quality recycling processes to recover all valuable metals in an environmentally sound manner. We offer a unique sustainable and circular approach.	Ni Co Li Cu



Balancing growth, returns and cash flows



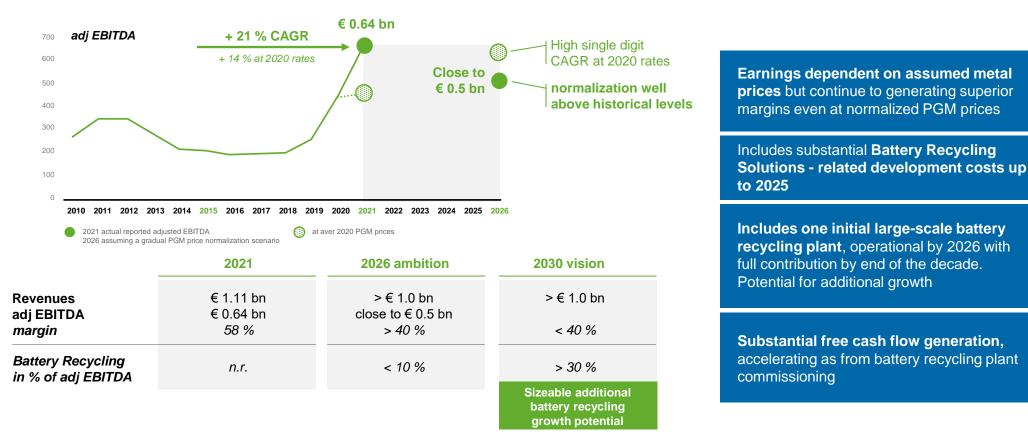


- Earnings path to depend on prevailing metal prices
- Initial battery recycling payback
 second half of decade
- Highly value creative returns across the plan (even with lower metal prices)
- Battery recycling capital investment to somewhat dilute returns
- Significant free cash flows despite important mid-decade battery recycling investments

Recycling



Strong margins, returns & cash flows and Battery Recycling kicking in mid-decade



Recycling H1 2022

Revenues -18% and adj. EBITDA margin 47.8%

Very strong performance, well above historical levels, albeit below record H1 21

Precious Metals Refining

Robust operational performance with stable volumes YoY

Below H1 21 record performance, reflecting impact of lower PGM-prices, a somewhat less favorable supply mix and cost inflation

Jewelry & Industrial Metals

Strong performance across all product lines

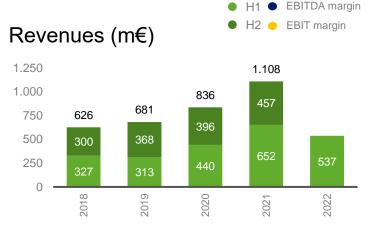
Continued strong demand for platinum engineered materials used in glass applications and performance catalysts

Higher volumes for investment products, benefitting from safe-haven buying

Precious Metals Management

Strong performance, however, below exceptional H1 21, reflecting less favorable trading conditions, in particular for rhodium







Adjusted EBIT (m€) & EBIT(DA) margin



Zoom in on Precious Metal Refining (PMR) and Battery Recycling Solutions (BRS)

platform to enable success in Battery Recycling **EBITDA** >30% of Business **Precious Metals Refining** Group **EBITDA** Undisputed leader in complex precious metals recycling with minimized carbon footprint **Battery Recycling** 2026 2022 2030 **Battery Recycling:** Battery Recycling: **Pioneer in Europe** Scale-up in Europe and prepare entry in North America Leverage 10kt plant and recycling know-

Recycling: Precious Metals Refining as solid

how to establish strong position

Prepare high-volume plant in EU

- Launch 150kt plant in 2026 as pioneer in Europe
- Umicore Pyro/Hydro technology best in cost and sustainability

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Precious Metal Refining



Largest and most complex precious metals recycling operation in the world





Leading refiner of 17 different metals

Processes more than 200 different types of raw materials

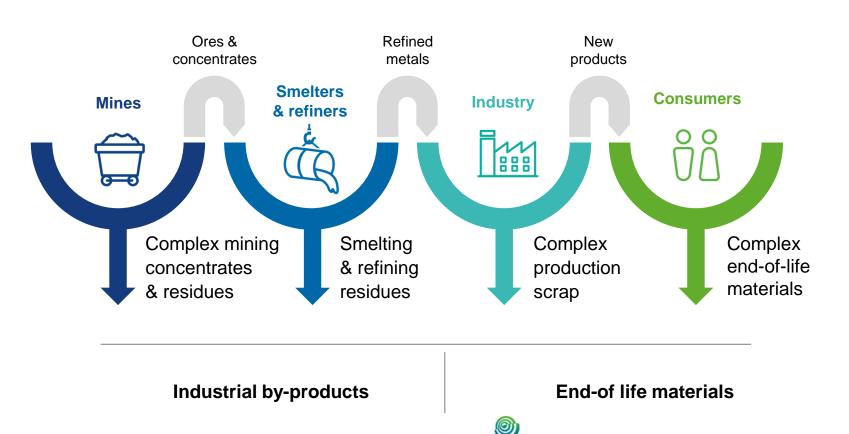




World class environmental and quality standards

The value chain of metals





un

Precious Metals Refining

Revenue Drivers



Main revenue driversTreatment & refining
chargesMetal yieldTreatment charges are
determined, among other
criteria, by the complexity
of the materialsUmicore assumes the risk
of recovery above or
under the contractually
agreed recovery rate

Metal price exposure





Ag AuPtIrRhInSbAsRuPdTeSnPbBiCuNiSe

Managing the effects of metal price movements on earnings

Systematic hedging of transactional exposure

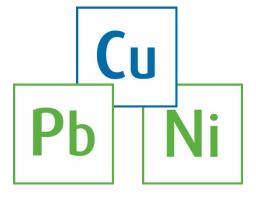
Depending on market conditions hedging of (part of) structural metal price exposure through contractual arrangements

Impact on working capital is mitigated by toll-refining – metals remain property of the supplier during treatment

Umicore has unique technology



Umicore is unique due to its proprietary complex flowsheet that combines three metallurgical streams



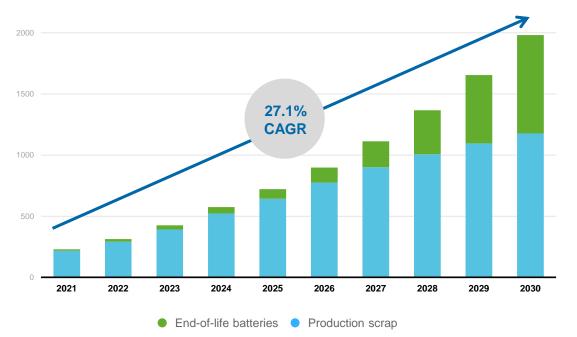
This enables

Flexibility to treat a broad range of input materials	Recovery & valorization of the most metals	Ability to optimize feed and therefore profitability	Scope to broaden to new types of materials in future
---	--	---	--

- Umicore technology guarantees **environmentally friendly** processing, a high yield and a more competitive cost
- Umicore introduced its unique Ultra High Temperature technology for Battery Recycling more than 5 years ago

Production scrap primary source of supply towards 2030

End-of-life EV batteries and production scrap available for recycling (kMT, global)



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Continuous startup of battery plants expected to produce significant pre-consumer scraps

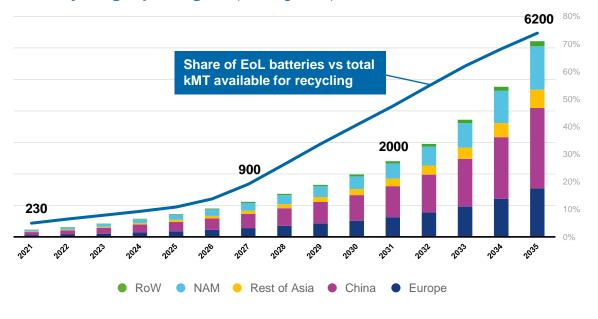
Diverse and complex input feed mix

Diversified, flexible and robust recycling technology crucial

Source: Umicore forecast data

Global recycling need accelerating significantly post 2030 Robust technology to cope with feed mix changes

End-of-life EV batteries and production scrap available for recycling – per region (kMT, global)



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From 2030 end-of-life expected to become the vast majority of supply feed

Regional markets expected to emerge with specific dynamics (differentiated applications and battery technologies, regulation,...)

Importance of tuning offering for the different regional markets

Source: Umicore forecast data

Recycling is crucial for the mobility transformation...

Recycling as critical additional source of supply SECURING RAW MAJOR MATERIALS ESG ADVANTAGES

Multiple use of minerals versus single use of fossil fuels

Upcoming recycled content targets for new battery production

Proven and traceable sustainably sourced metals (battery passport)

Enabling regional supply chains and critical material price visibility

Mandatory End-of-Life battery recycling

Reduces the need for primary natural resources

Recycled material up to 96% lower CO2 footprint vs primary materials



...requiring critical competences and skills for battery recyclers to succeed



Process

Product



Effective volume & mass reduction at massive scale (> 100kt/y) High metal extraction yields Capable to process complex feed mix Sustainable process:

- Safe elimination of hazardous compounds
- Manage occupational health exposure risk
- Low environmental impact



Output of high-quality battery grade materials (no downcycling)

Realize effective compatibility with existing primary CAM-flowsheet

Products for high-volume addressable markets

Services



Capability to collect and treat a wide variety of materials (production scrap, off-spec components, end-of-life batteries, modules, cells, black mass)

Closed-loop operating system offering our partners a user-friendly interface and compliancy information

Competence center with integrated

offering – "design for circularity"



Battery Recycling Solutions – RISE Capture profitable growth in circular battery value chain

Scale up as frontrunner in Europe and prepare industrial presence in North America	R Reliable Transformation Partner	Innovation & Technology Leader	S sustainability Champion	E Excellence in execution
Leverage the optimal pyro-hydro balance as differentiating technology Attract multiple sources for short- and long-term feed	SUPPORTING OUR CUSTOMERS WITH A CIRCULAR OFFERING FROM THE START, READY TO ACCELERATE TOGETHER	SCIENCE MEETS BUSINESS: LONG-STANDING MATERIALS AND TECHNOLOGY KNOW-HOW	KEY ENABLER FOR THE CIRCULAR ECONOMY	SCALABLE TECHNOLOGY DELIVERING ON MARKET REQUIREMENTS

Establishing Battery Recycling Solutions as key enabler for a circular and low-carbon battery value chain



Financial KPIs H1 2022

Financial KPIs



in m€	FY 2020	FY 2021	H1 2022
Turnover	20.710	24.054	13.839
Revenues (excluding metal)	3.239	3.963	2.147,9
Adjusted EBITDA	804	1.251	601
Adjusted EBIT (*)	536	971	461,0
of which associates	8	21	11
Total EBIT	299	896	441
Adjusted EBIT margin	16.3%	24.0%	21.0%
Adjusted net profit, Group share	322	667	321
Adjusted Earning per share	1,34	2,77	1,34
Net profit, Group share	131	619	309
R&D expenditure	223	245	141
Capital expenditure	403	389	189,8
Net cash flow before financing	99	787	230
Total assets, end of period	8.341	9.045	10.259
Group shareholders' equity, end of period	2.557	3.113	3.410
Consolidated net financial debt, end of period	1.414	960	955
Gearing ratio, end of period	35.0%	23.3%	21.6%
Net debt / LTM adj. EBITDA	1,76x	0,77x	0,88x
Capital employed, end of period	4.457	4.377	4.475
Capital employed, average	4.451	4.384	4.426
Return on capital employed (ROCE)	12.1%	22.2%	20.8%
Workforce, end of period (fully consolidated)	10.859	11.050	11.350
Workforce, end of period (associates)	2.460	2.589	2.702
Accident frequency rate	2,52	3,70	3,85
Accident severity rate	0,47	0,12	0,08

Business Group key figures



CATALYSIS

(in million €)	FY	FY	H1
	2020	2021	2022
Total turnover Total revenues (excluding metal)	5.917	8.155	3.907
	1.364	1.687	897
Adjusted EBITDA	234	402	206
Adjusted EBIT	154	326	170
Total EBIT	96	308	168
Adjusted EBIT margin	11.3%	19.3%	18.9%
R&D expenditure	139	142	72
Capital expenditure	64	70	23
Capital employed, end of period	1.727	1.551	1.486
Capital employed, average	1.596	1.743	1.519
ROCE	9.6%	18.7%	22.4%
Workforce, end of period (fully consolidated)	3.073	3.007	3.033

ENERGY & SURFACE TECHNOLOGIES

FY FY • 2020 2021 2022 (in million €) 2.811 3.534 2.229 Total turnover Total revenues (excluding metal) 1.045 1.174 186 Adjusted EBITDA 262 139 75 Adjusted EBIT 5 of which associates Total EBIT (36) 6.7% 11.2% 15.2% Adjusted EBIT margin 58 64 R&D expenditure 252 Capital expenditure 129 Capital employed, end of period 2.133 2.275 2.484 Capital employed, average 2.209 2.198 2.380 3.4% ROCE 6.3% 9.4% 3.836 Workforce, end of period (fully 3.761 3.981 Workforce, end of period 727 809 792 (associates)

RECYCLING

(in million €)	FY	FY	H1
	2020	2021	2022
Total turnover	13.904	15.609	9.075
Total revenues (excluding metal)	836	1.108	537
Adjusted EBITDA	425	640	257
Adjusted EBIT	362	573	221
Total EBIT	311	529	217
Adjusted EBIT margin	43.3%	51.7%	41.2%
R&D expenditure	10	13	13
Capital expenditure	72	83	30
Capital employed, end of period	447	461	426
Capital employed, average	502	345	443
ROCE	72.0%	165.9%	99.9%
Workforce, end of period (fully consolidated)	2.769	2.867	2.930



materials for a better life