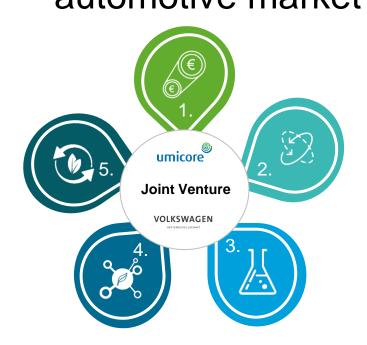


First-of-its-kind partnership in the European automotive market

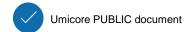




First European EV battery materials Joint Venture¹ to build cathode material production capacities in Europe

- Significant economies of scale in precursor and cathode production
- 2. Benefit from complementarity of technology, innovation and industrial knowhow
- Strong framework to further accelerate battery technology innovation
- Collaboration on sustainable and responsible sourcing of raw materials
- 5. Ambition to include refining & battery recycling at later stage

Strong contribution to European Green deal and the EU's ambition to establish a sustainable European battery value chain



Brings considerable first-mover advantage to both partners in fast-growing European EV market





- Secured access to an important part of the European demand for EV cathode materials
- Scale effects and shared investments in battery materials
- Confirmation of Umicore's strong technology offering and capabilities in battery materials



Shared sustainability convictions

VOLKSWAGEN

AKTIENGESELLSCHAFT

- Security of supply for roll-out of ambitious electrification plan
 - Access to sustainably sourced, high performance, tailormade and cost competitive cathode materials
- Benefiting from Umicore's strong expertise and unique position in battery materials value chain, from sourcing to recycling



Attractive market for cathode materials



High-tech market with high barriers to entry requiring large R&D and capacity investments

Extremely high growth in battery materials demand driven by increasing EV penetration

Umicore well positioned as a technology leader

Product technology leadership



- 20+ years of cathode R&D activity and diversified portfolio from mid to Hi-Ni cathode chemistries (e.g. NMC, HLM, NCA)
- Long-term understanding of car industry via Automotive Catalyst business

Global, industrial presence with local capabilities



- First manufacturer with footprint in both Asia (Korea & China) and Europe (Poland)
- Unique position, from sourcing to recycling

Process technology leadership



- Vast experience in producing at scale while ensuring product performance stability
- Focus on production efficiency and cost optimization, allowing competitive pricing

Sustainability



- Low emissions leadership net zero GHG by 2035
- Pioneer in sustainable sourcing and environmentally friendly production

Technology leader with superior product and process technology can achieve sustainable margins and value creation



Outlook for Energy & Surface Technologies umicore



Faster than anticipated shift to high nickel chemistries in the market

Lower volumes & higher fixed costs hampering ST earnings in battery materials

- Demand projections for certain mid-Ni platforms scaled back to minimum commitment: lower volumes for 2022-23, beyond semiconductor shortage impact.
- Combined with higher fixed costs to prepare for mid-term growth, likely lower-thanexpected earnings growth in Rechargeable Battery Materials in 2022-23.
- Assuming no repeat of exceptional performance of Cobalt & Specialty Materials, earnings of Energy & Surface Technologies not expected to show significant uplift in 2022-23

Umicore uniquely positioned to disproportionally benefit from extremely high growth in EV battery materials demand

Strong mid-term earnings growth potential in E&ST confirmed

- Agile reaction to rapidly evolving customer voice resulting in industry-leading hi-Ni NMC
- Planned JV with Volkswagen AG further enhances competitive positioning
- Unique position to **disproportionally benefit** mid-term from extremely high anticipated growth in EV battery materials, based on strong technology roadmap in line with customers' requirements
- Strong economies of scale, technology differentiation and process excellence will allow to create sustainable shareholder value in Umicore's fast-growing battery materials activity.



Q&A



materials for a better life