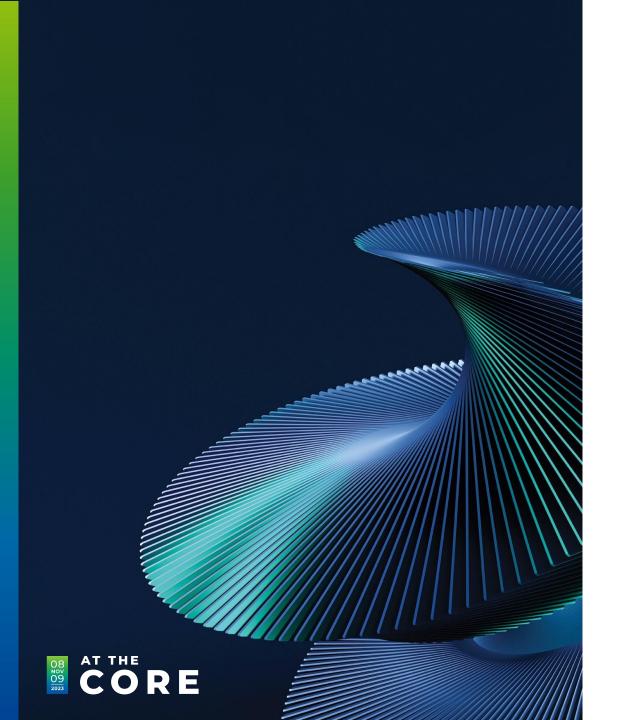
At the CORE of Umicore's Battery Materials

Mobility electrification in full swing







Agenda



1

Electrification drivers stronger than ever

2

No one-size-fits-all

3

Local-for-local approach

4

Key take-aways





Accelerating market demand







Strong regulatory push



Progress on **price** parity and TCO



Expanding charging infrastructure



Increasing electric model portfolio of OEMs









Strong regulatory push



Progress on **price** parity and TCO



Expanding charging infrastructure



Increasing electric model portfolio of OEMs

Examples of key regulations across regions



EU: ICE car ban by 2035, Green Deal, Green Industrial Plan, NZIA, CRMA



UK: ICE car ban by 2035



US: IRA, ZEV program adopted in 10 states



Canada: ZEV regulation proposal, strong subsidy schemes in place



China: NEV regulation









Strong regulatory push



Progress on **price parity and TCO**



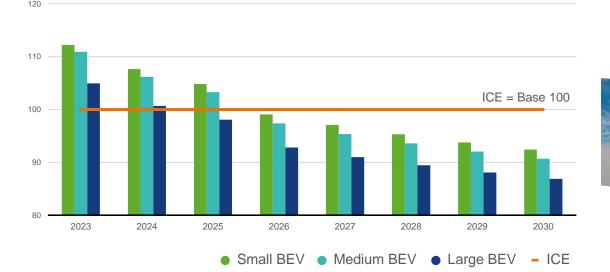
Expanding charging infrastructure



Increasing electric model portfolio of OEMs

Price parity between BEV and ICE already expected in 2025 for large EVs, for medium and small segment by 2026

EU BEV price versus ICE (Base 100)











Strong regulatory push



Progress on **price** parity and TCO

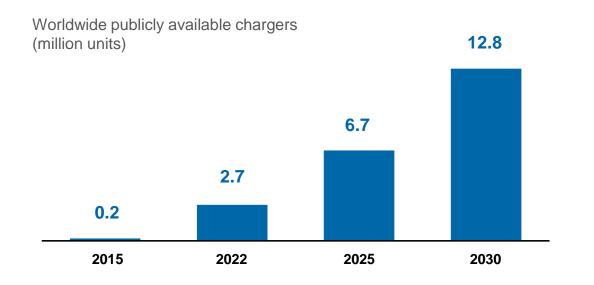


Expanding charging infrastructure



Increasing electric model portfolio of OEMs

Public chargers grew ~50% p.a. between 2015 and 2022, forecasted to grow in line with electrification growth











Strong regulatory push



Progress on price parity and TCO



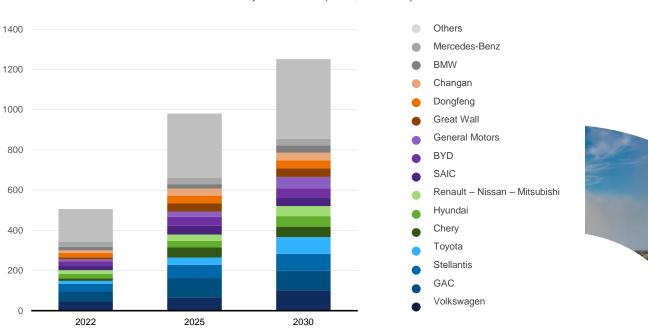
Expanding charging infrastructure



Increasing electric model portfolio of OEMs

Rapidly expanding EV portfolio, with already ~500 models globally in 2022, heading to >1,200 in 2030

Number of BEV and PHEV models produced (unit, Global)

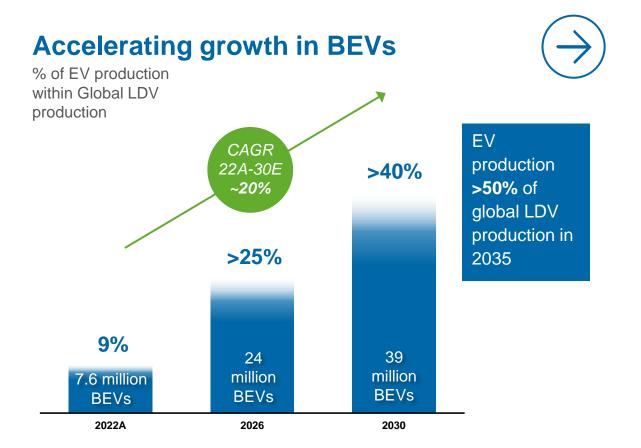


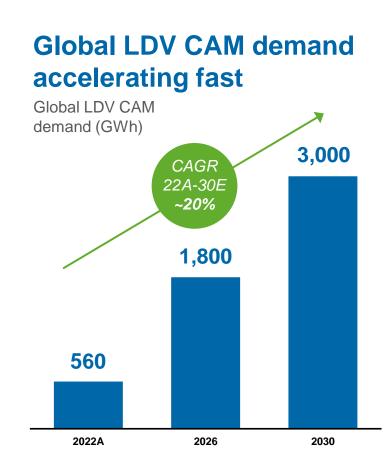




Significant BEV market growth spurring global demand for CAM







EU and NAM
biggest growth
drivers

CAGR
22A-30E
EU: 25%
NAM: 29%

EU, NAM and China accounting for ~90% of global market in 2030





No

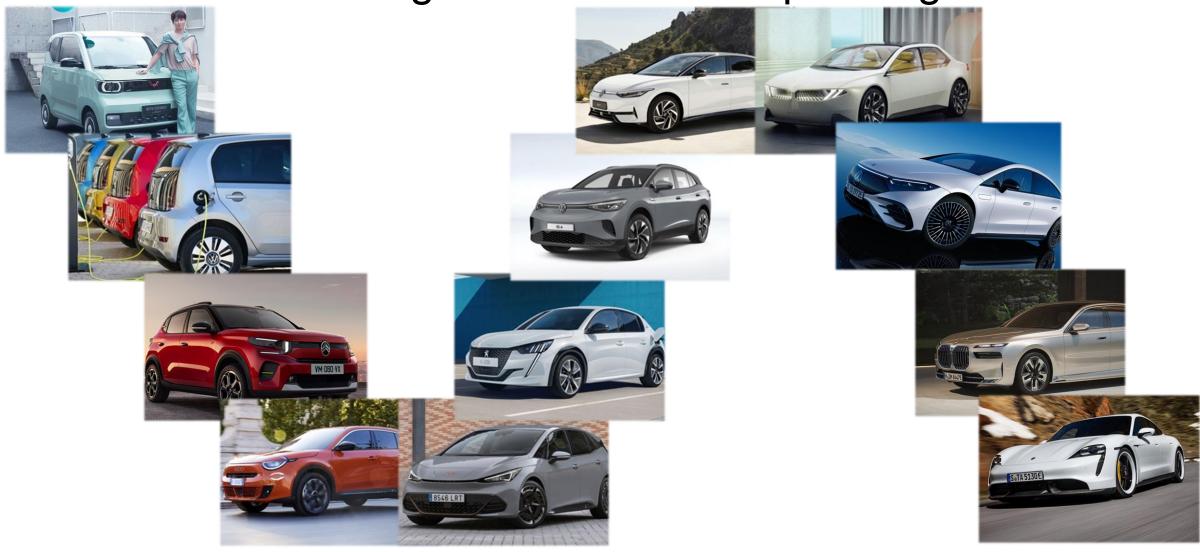
one-size-fits-all

Diverse customer needs & solutions



BEV model offering is diverse and expanding







BEV model offering is diverse and expanding



ENTRY

MASS

PREMIUM



















Number of BEVs (#M)

... in **2022A**







Battery requirements differ across segments



Global simplified view – differences across regions











MASS ENTRY PREMIUM Compromising energy Balance of energy Highest energy density and/or charge density and/or charge density and highest rate for lowest cost rate at reasonable cost charge rate



High importance

No/Low importance Medium importance

Battery requirements differ across segments



Global simplified view – differences across regions

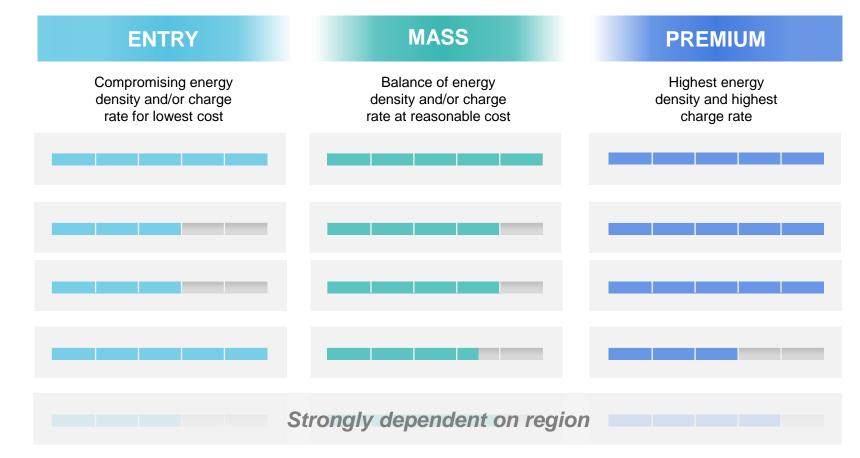










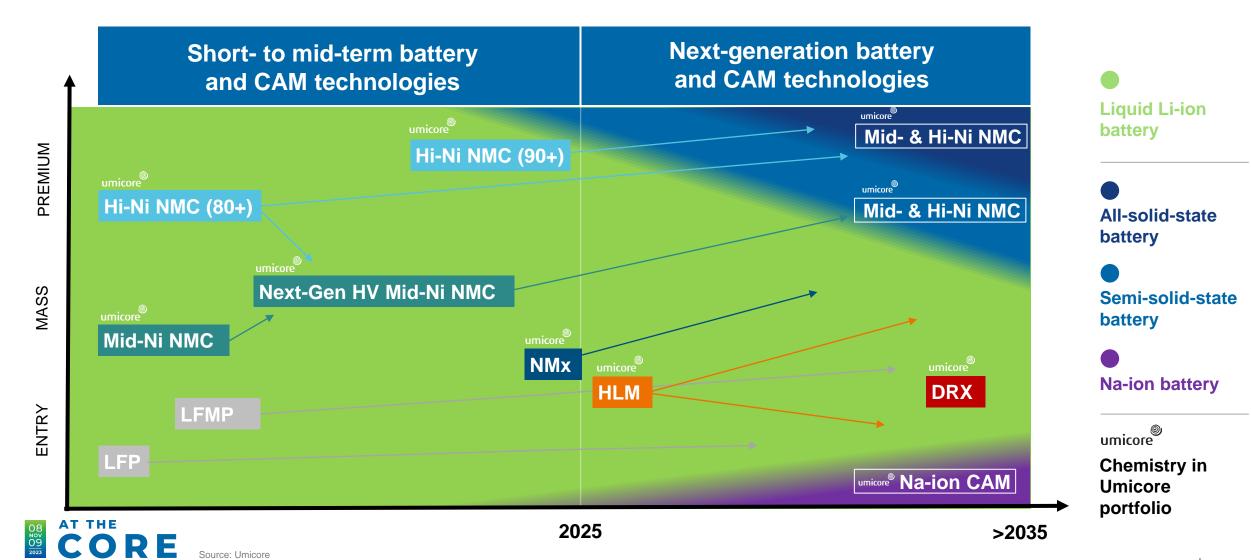




No/Low importance Medium importance

Broad chemistry portfolio meets markets needs umicore

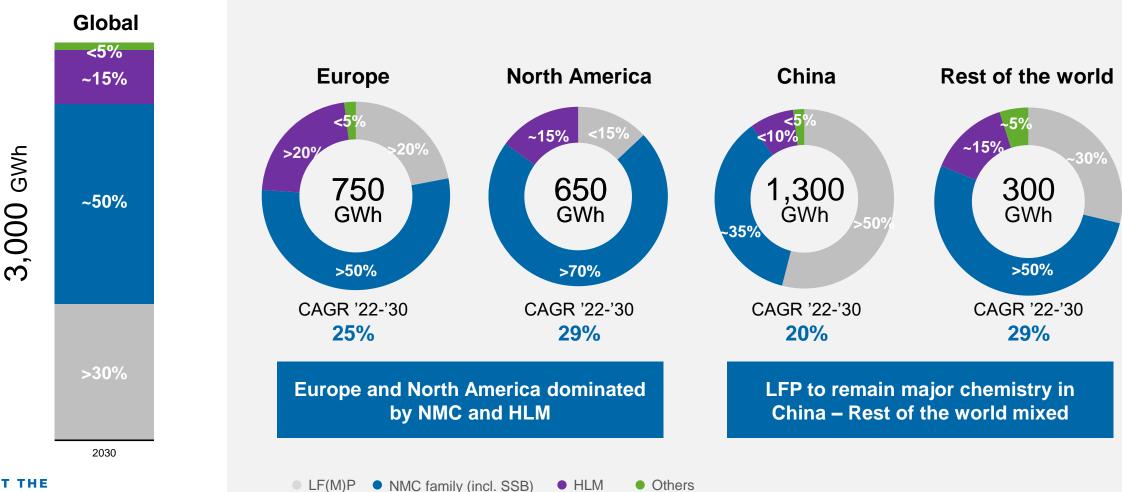




Demand for chemistries differs across regions



LDV CAM demand by region and chemistry (2030, GWh)



Others









CAM market will be won at regional level umico OEMs seek regulation-proof, more resilient and local supply chain



Regulatory pressure & geopolitical independency

- Increasing share of locally produced EV batteries
- Push for more local supply chains



Supply chain robustness

- Geopolitics and supply chain disruptions pushing OEMs to local supply chains
- OEMs reduce dependency on single LiB supplier (with >75% of today's cells coming from China)



Transportation, costs and carbon footprint

- Costly, time-consuming and carbon intensive inter-regional transportation of LiB cells & components
- OEMs push for regional sourcing to keep supply chains short

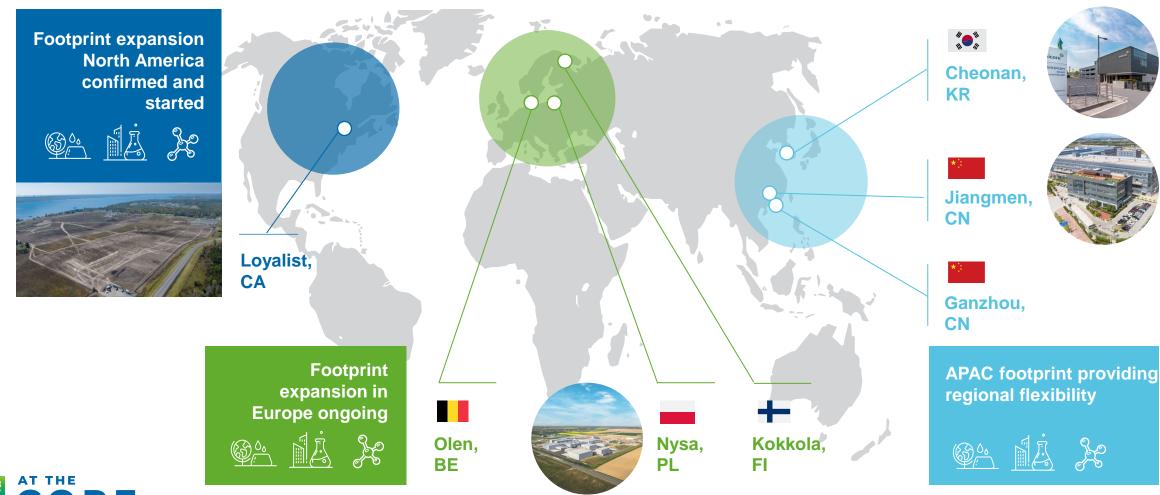


Strong regional strategy is critical for CAM manufacturers



Umicore's truly global local-for-local footprint Along the value chain, close to customers











Key take-aways



Electrification of mobility in full swing





Strong drivers pushing pace of electrification in fast forward

Addressable CAM market in key regions rapidly growing



Umicore well positioned







Truly global local-for-local production footprint



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