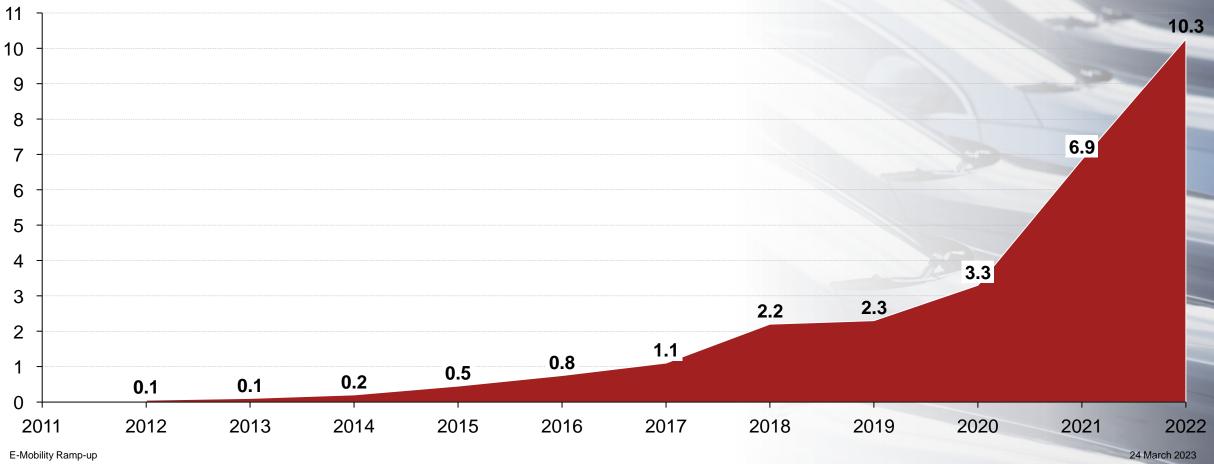


E-Mobility Ramp-up Opportunities & risks along the value chain

Dr. Philipp Rose March 2023

In 2022, global EV sales reached a record-high of 10 million vehicles globally – over 50% increase from previous year **Annual EV sales including BEV and PHEV** *(million vehicles)*

Global electric vehicle (EV) sales



Strategy&

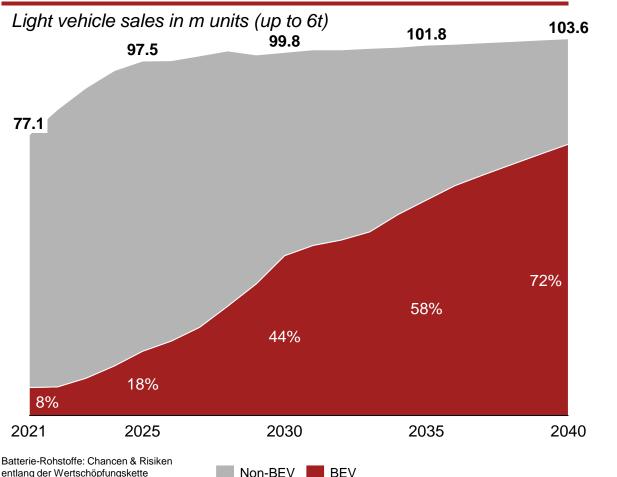
Source: ICCT 2022

The EV growth will continue to ~45% market share in 2030 fueling an immense battery demand of ~4 TWh globally

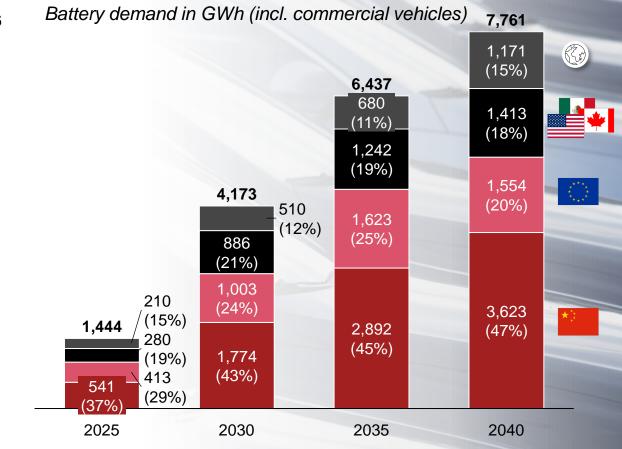
BEV diffusion and battery demand (realistic scenario, as of 2022)

Global BEV diffusion

Strateov&



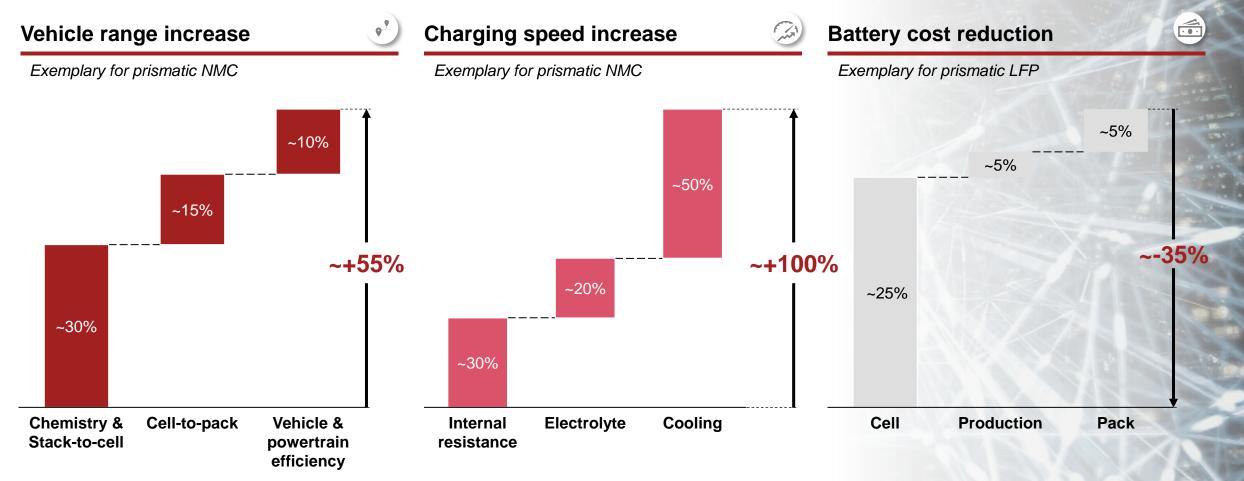
Global battery demand



24 March 2023

The battery will be nothing such as a commodity, but the key brand differentiator and a competitive driver

Technological development (2022 vs. 2030)



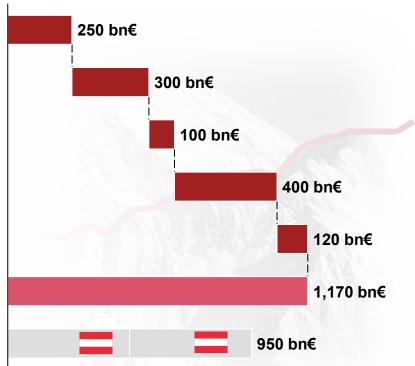
Global annual revenues will equal multiple DAX companies & cumulated investments of 2x Austria's GDP will be required Global cross industry value pool overview

eMobility global revenue (in 2030)

Automotive ~600 bn€ A **Materials & chemicals** ~175 bn€ SemiCon <50 bn€ Energy & ~150 bn€ infrastructure Logistics ~100 bn€ **Total eMobility** ~850 bn€ \bigotimes 2021 Reference e.on_2011-838 bn€ STELLANTIS $\langle \cdots \rangle$

Annual eMobility revenue reach size of multiple industry leaders

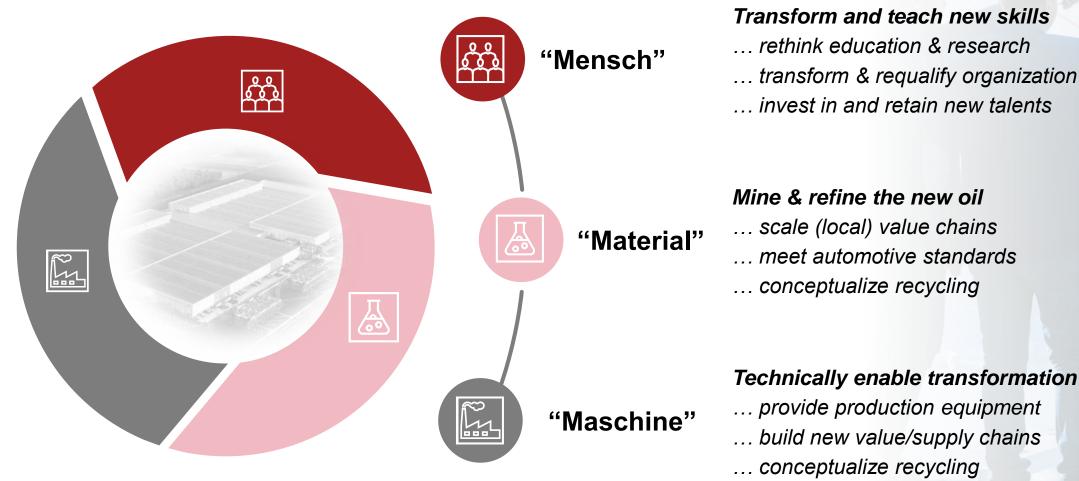
eMobility one-time CAPEX (until 2030)



Total investment 2 x Austria's GDP (~25% of German GDP)

The 3 M's "Mensch, Material & Maschine" are the pivotal elements for the eMobility transformation

Key elements of the eMobility transformation





Thank you

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