

## WMF 2023: Key messages EV batteries, which chemistries for fast Scale up and optimum performance

- Speed is crucial both for improving performance of the current mainstream Li-Ion battery technology/supply chain and for developing the alternative chemistries as over the next 3-4 years a majority of the decisions will be taken. In terms of performance, safety, energy density (150 Wh/kg short term, 500 Wh/kg medium term) and low cost (60\$ by kWh) are the key objectives.
- 2. After 2027, alternative chemistries (Solid State, Sodium, Sulfur) that will not be able to connect to the existing capacities/infrastructures with minimum added Capex will remain niche even with breakthrough performance.
- 3. We need to develop strong regional equipment suppliers both in North America and Europe in order to optimize the capital intensity needed for developing/converting to new battery chemistry.