

Fraunhofer R&D Center Electromobility Bavaria



14.02.2025

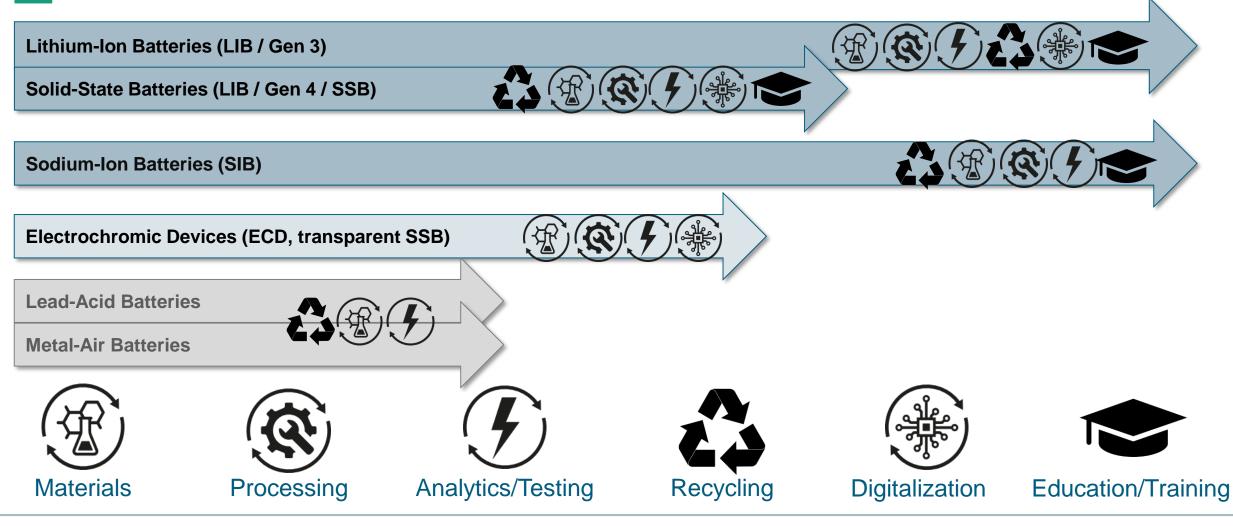
Victor Trapp

Highlights of the EU Battery Ecosystem

BAYFOR workshop "Future EU Funding Opportunities in the BATTERY Sector – Information and Participation Opportunities"

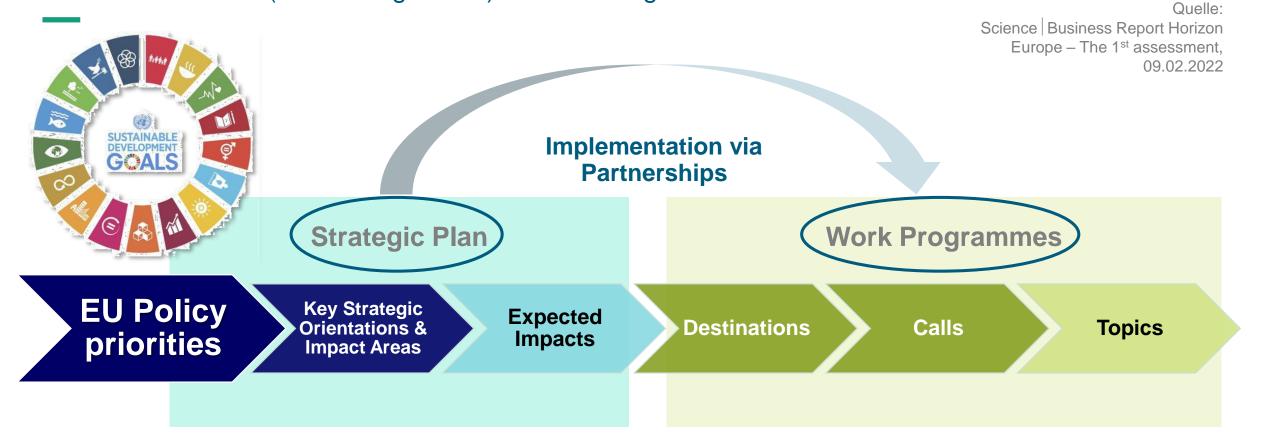
Fraunhofer R&D Center Electromobility in Würzburg

Key Topics





Impact Logic From EU Priorities (the Strategic Plan) to Work Programmes

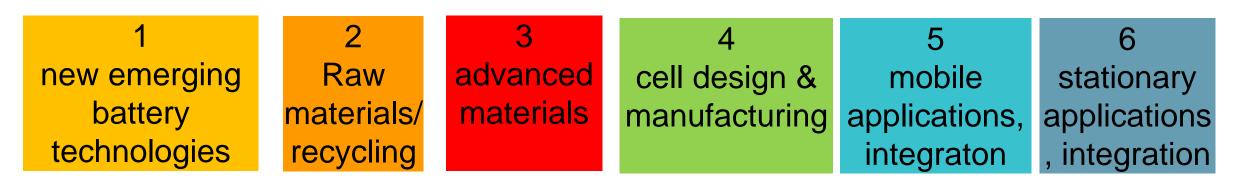




Batteries European Partnership Association Strategic Process



Working Groups



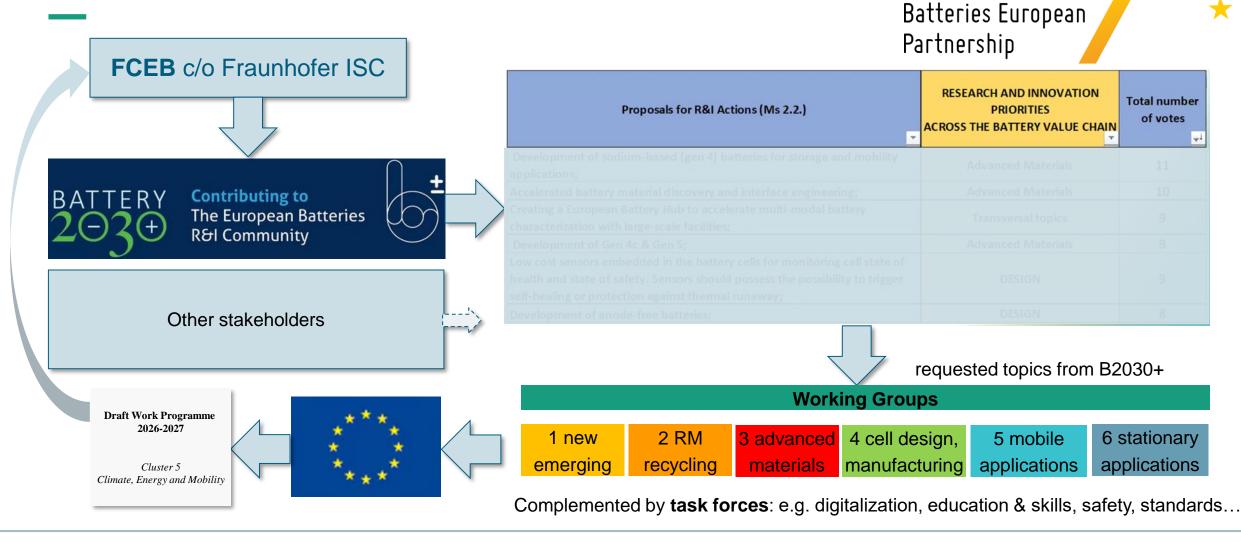
Working Groups are bringing together industry, research and other organisations' experts from specific R&I areas. THEIR MAIN MISSION IS TO IDENTIFY, PRIORITISE AND DRAFT THE R&I TOPICS WHICH WILL BE SUBMITTED TO THE EUROPEAN COMMISSION AS RECOMMENDATIONS FOR THE NEXT HORIZON EUROPE WORK PROGRAMMES!

Complemented by task forces:

digitalization, education & skills, safety, standards, sustainability, social science & humanity, innovation uptake



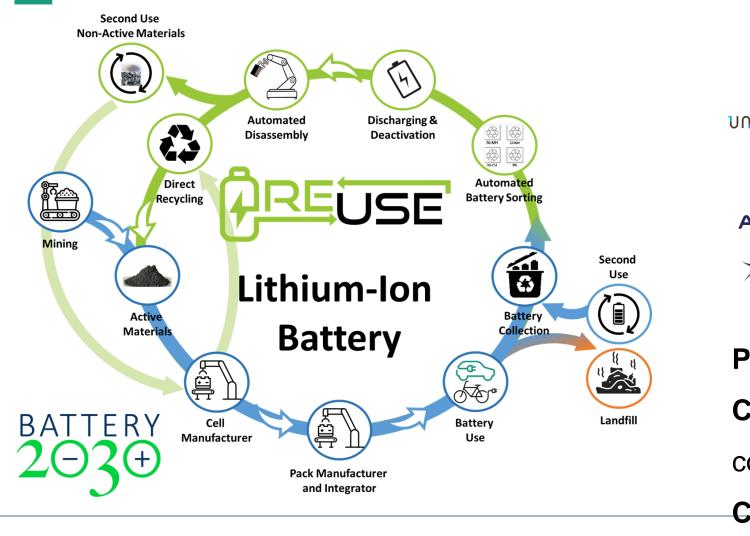
Batteries European Partnership Association Strategic Process Example: Stakeholder Battery2030+





BATT

B2030+ project ReUse: Efficient direct recycling for low value LFP battery for circular and sustainable waste management





Project duration: 2024 – 2026
Consortium: 13 partner from 8 countries

Coordinator: Fraunhofer ISC



6

ReUse Top goals

Global objective:

ReUse aims to improve and demonstrate **circularity of sorted**, **dismantled**, **and pretreated low-value LFP battery waste feeds**. The proposed recycling concepts address waste stream(s) in a comprehensive manner, aiming at the **maximal recovery of input elements and components**, rather than selected fractions only.

Objective 1: Develop automated EoL-battery sorting and optimized discharge schemes.

Objective 3: Improve recycling efficiency and direct re-use of battery active materials, conductive carbon and binders through improved separation and regeneration methods.

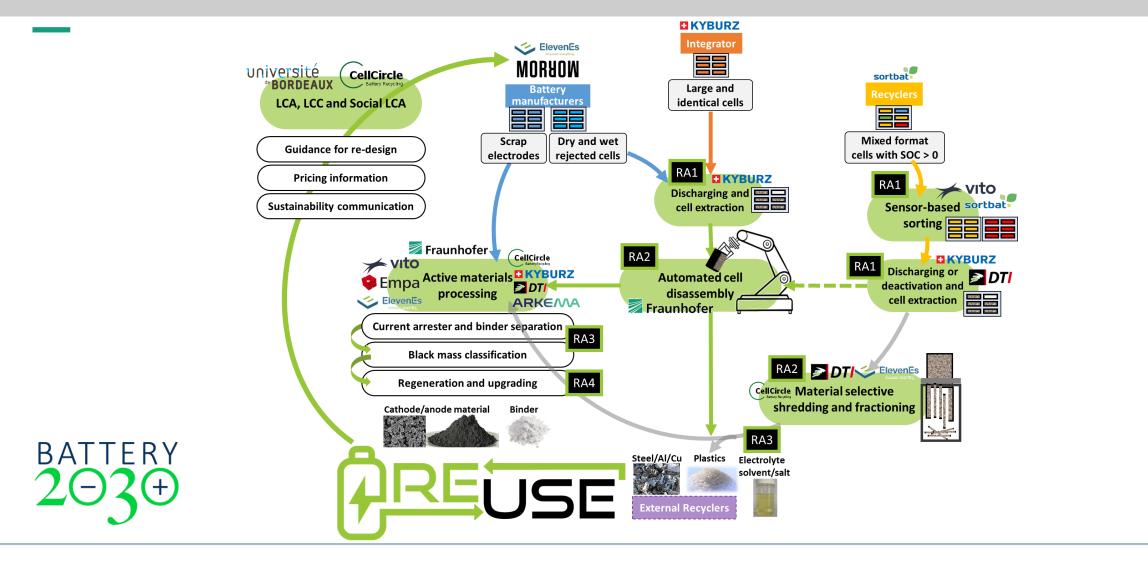
Objective 2: Develop automated disassembly/deconstruction strategies for LFP battery cells.

Objective 4: Ensure sustainability of ReUse concept by LCA, LCC, and Social Impact studies.



BATTERY

ReUse overall methodology and concept





8



EU Project Portfolio of Fraunhofer ISC / FZEB





Thank you for your attention!