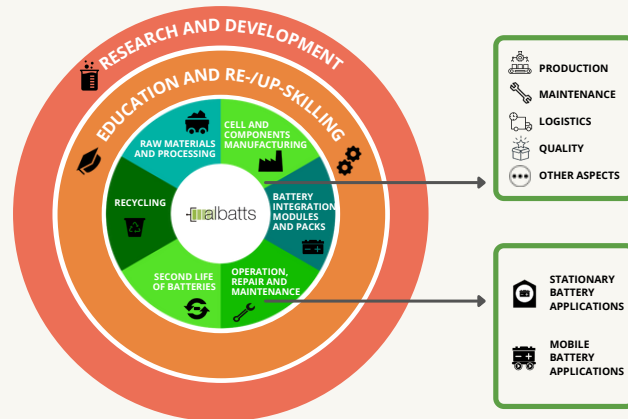




## RECOMMENDATIONS FOR THE EUROPEAN BATTERY SECTOR

### D3.6 – Sectoral Skills Intelligence and Strategy – Release 1

Recommendations and considerations are mapped against the battery value chain or areas of interest and propose actions to improve the re-/up-skilling of the workforce or point out to issues that need to be considered when it comes to the skills agenda of the sector. They follow the structure of the sectoral intelligence part of the report.



### BATTERY INTEGRATION, MODULES AND PACKS

**Target groups:** Battery integrators; BMS manufacturers; and other system manufacturers.

Strengthening competence in BMS development to achieve development in efficiency, predictable behavior, and risk mitigation – concern is a battery system safety

Understanding the battery systems topologies and components

Research and development within the BMS – concern is a battery system safety; efficiency and more advanced features of the system;

Development of more efficient SoC and SoH algorithms

Battery integration and control - testing of integrated battery system within the application

Development and improvement of a framework for quality assessment and assurance

Development and research on BTMS - thermal management issues and other aspects – (1) Safety; (2) Physical or mechanical performance; (3) Durability; (4) Ripple current; (5) Accuracy of measuring instruments; (6) Materials for fire resistance and electronics packaging.

Strengthening of cooperation between integrators, manufacturers, and BMS suppliers

Development of competence within the standardization and frameworks for integration process and procedures of battery modules and whole systems

Overall digital skills