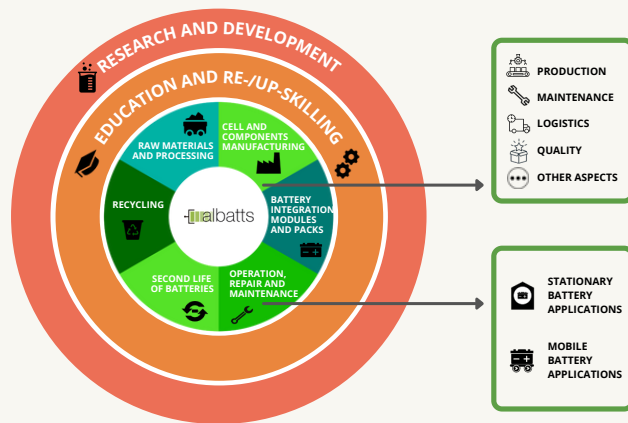




RECOMMENDATIONS FOR THE EUROPEAN BATTERY SECTOR

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.



OPERATION, REPAIR & MAINTENANCE



This factsheet provides an overview of trends with an impact on the future skills needed listed in original reports of WP4 (stationary battery applications) and WP5 (mobile battery applications) where the concrete corresponding recommendations can be found:

**Sectoral Intelligence
Definition for STATIONARY
Applications of Batteries**



**STATIONARY
BATTERY APPLICATIONS**

**Sectoral Intelligence
Definition for MOBILE
Applications of Batteries**



**MOBILE
BATTERY APPLICATIONS**



STATIONARY BATTERY APPLICATIONS

General Stationary Applications

- Increased need for energy storage with heavy-duty applications
- The proliferation of battery energy storages commercially in public places
- Growing competition in the energy storage market
- 5G cellular network deployment, expansion of batteries in telecommunications
- Commoditization of base stations
- Grid and off-grid systems and applications
- Smart grid

Cost-efficiency

Decrease electricity costs by placing stationary battery systems

Safety

Create regulation and legislation on the topic of battery safety

Resiliency and/or Self-sufficiency

- Increasing BESS use in military applications
- Increasing use in offshore oil and gas applications + vessels
- Base stations need batteries to support their power requirements
- Provide electricity in remote places where centralised electricity is not sustainable
- Transfer from lead-acid batteries to Li-ion batteries in cellular network base stations

Sustainability

- Second life applications
- Integration of battery systems with renewable energy sources, with the goal of decarbonisation
- The need for sustainable and resilient base stations



MOBILE BATTERY APPLICATIONS

EV Battery servicing, repair, and dismantling

- Servicing, repair, and maintenance of electric vehicles and EV batteries
- End of life – dismantling of batteries
- Adaptation of dealerships, service, and repair shops

EV customer needs and related services

- Advising customers in dealerships, car rentals, and secondary market
- Smart charging, fleet management, data sharing services
- Charging infrastructure design, installation, and maintenance
- Rescue services, roadside assistance
- Education in driving schools

Autonomous driving, vehicle to grid

- Autonomous driving
- Vehicle to grid (V2G) concept

EV Testing, certification, type approval, road worthiness tests

- Testing of electric vehicles
- Testing and certification of charging infrastructure
- Type approval of electric vehicles
- Periodic road worthiness tests of electric vehicles

Electrification of vessels

- Servicing – remote diagnostics, repair, and maintenance of electric vehicles
- Autonomous electrified vessels
- Customer product design, consulting, fleet management