Advanced lightweight battery systems optimized for fast charging, safety and second-life applications





Modular concept scalable to different types of vehicles **aimed at creating** advanced battery pack designs and systems



Innovative cooling technologies that deliver lower battery temperatures during operation and charging to ensure an extended life-cycle



Lightweight modular solutions designed following an eco-design approach to allow subsequent disassembly, recycling and reuse



Advanced remote control, maintenance and troubleshooting of each battery module through a flexible advanced Battery Management System (BMS) that ensures safety even at higher peak energy densities

BATROSS



An improvement of the Peak Energy Density by around 50%.



A 15 to 20% improvement over the

A 20% weight reduction of the battery system.

full lifecycle.



Allow for fast charging while maintaining or improving battery capacity and useful life.



A 25% charging time reduction with a 150 kW charger.

Extensive knowledge improvements in thermal management systems and second life / recycling.



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Do you have concerns with battery range, cost, long-term reliability and excessive charging times? ALBATROSS has a sustainable solution!



The proposed solutions will develop the next generation of battery packs for electric vehicles (EVs)



The technological developments will centre around a combination of smart battery modules along with lightweight multi-material structures, delivering an unprecedented level of safety and performance



The solutions will allow for a proper industrial integration and significant life-cycle improvements beyond existing solutions

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