

LIBERTY

LIGHTWEIGHT BATTERY SYSTEM
FOR EXTENDED RANGE AT IMPROVED SAFETY

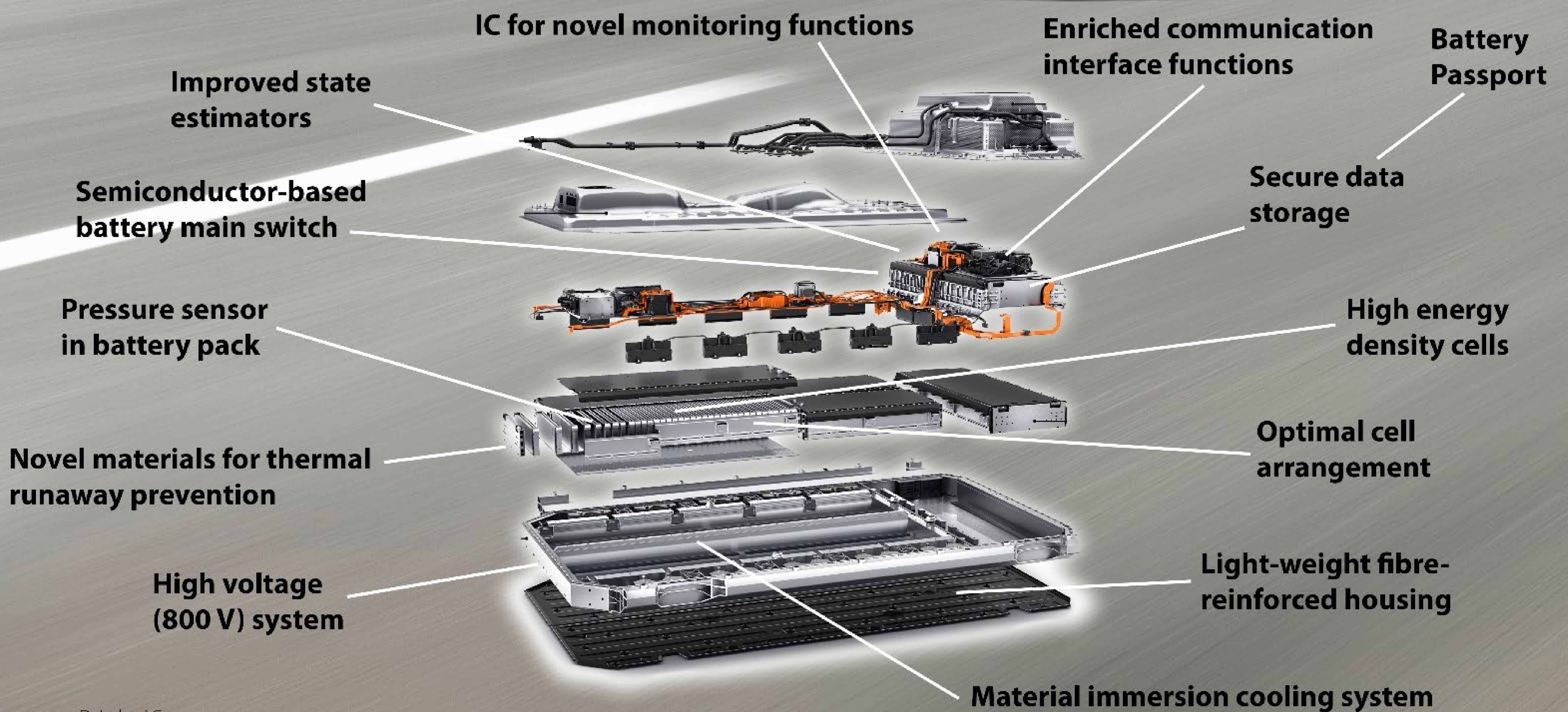


image source: Daimler AG

OBJECTIVES

- 500 km range
- Fast charging
- Ultimate safe battery system
- Long battery lifetime
- Sustainability over entire life cycle of battery pack

MAJOR OUTCOMES

- Innovative battery pack and battery management system integrated in Demonstration vehicle (TRL7)
- Compact and safe battery system based on high energy density cells and lightweight materials housing
- Versatile battery management system
- High accuracy state estimators and diagnostics
- (semi-) Automated battery dismantling procedure
- Safety and performance related test procedures

HIGHLIGHTS

- The innovations within LIBERTY lead to a compact high-performance battery pack with advanced diagnostic and control features and functionalities.
- In terms of consumer's values, it brings extended range, short charging times, safety, reliability, affordability and sustainability.

PROJECT PARTNERS

- Austria**
- VIRTUAL VEHICLE RESEARCH GMBH
- Belgium**
- FLANDERS MAKE VZW
 - BRUSSELS RESEARCH AND INNOVATION CENTER FOR GREEN TECHNOLOGIES
 - ASSOCIATION EUROPEENNE DES FOURNISSEURS AUTOMOBILES
- France**
- HUTCHINSON SA
 - NXP SEMICONDUCTORS FRANCE
 - VALEO SYSTEMES THERMIQUES SAS

- Germany**
- DIEHL AKO STIFTUNG & CO. KG
 - INFINEON TECHNOLOGIES AG
 - MERCEDES-BENZ AG
 - ACCUREC-RECYCLING GMBH
 - FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
- Romania**
- INFINEON TECHNOLOGIES ROMANIA AND CO. SOCIETATE IN COMANDITA SIMPLA

- Netherlands**
- NXP SEMICONDUCTORS NETHERLANDS BV
- Spain**
- IKERLAN S. COOP
 - MONDRAGON GOI ESKOLA POLITEKNIKOA JOSE MARIA ARIZMENDIARRIETA S COOP

PROJECT FACTS

Project Coordinator: **Egoitz Martinez-Laserna**
 Institution: **IKERLAN S. COOP - IKERLAN**
 Email: emartinez@ikerlan.es
 Website: www.libertyproject.eu
 Start: **01 Jun 2021**
 Duration: **42 Months**
 Total investment: **10.8 M€**
 Participating organisations: **16**
 Number of countries: **7**

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