FACTS AND FIGURES

SENSIBAT is a research and innovation project aimed at developing a sensing technology for Li-ion batteries that measures in real-time the internal battery cell temperature, pressure, conductivity and impedance of different cell parts.

SENSIBAT is a 3 year EU-funded project launched in September 2020 and is part of the Horizon 2020 Research and Innovation Programme and the Battery 2030+ Initiative.

Start date: 1 September 2020

Duration: 36 Months **EC Funding:** 3.3 M€

12 partners from 7 European countries

CONTACT

Coordinator

Ikerlan S. Coop Iñigo Gandiaga igandiaga@ikerlan.es

Project Manager

Uniresearch BV Maaike van der Kamp m.vanderkamp@uniresearch.com



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No.957273

PROJECT PARTNERS



IKERLAN www.ikerlan.com

Spain



BEDIMENSIONAL

www.bedimensional.com Italy



POLITECNICO DI TORINO

www.polito.it Italy



FRAUNHOFER INSTITUTE FOR INTEGRATED SYSTEMS AND DEVICE TECHNOLOGY

www.fraunhofer.de Germany



FLANDERS MAKE

www.flandersmake.be Belgium



TECHNISCHE UNIVERSITEIT EINDHOVEN

www.tue.nl The Netherlands



NXP SEMICONDUCTORS NETHERLANDS NXP SEMICONDUCTORS FRANCE

www.nxp.com
The Netherlands & France



AVESTA BATTERY & ENERGY ENGINEERING

www.abeegroup.com Belgium



VARTA MICRO INNOVATION

www.vartamicroinnovation.com Austria



AUSTRIAN INSTITUTE OF TECHNOLOGY

www.ait.ac.at Austria



UNIRESEARCH

www.uniresearch.com The Netherlands



CELL-INTEGRATED SENSING FUNCTIONALITIES FOR SMART BATTERY SYSTEMS WITH IMPROVED PERFORMANCE AND SAFETY





www.sensibat-project.eu

AMBITIONS

- Development of in cell, faster and more extensive sensing technologies for lithium ion batteries.
- Development of more accurate state functions and battery management systems increasing overall safety.
- Cost effective manufacturing of a 24V battery module equipped with a new slave and master BMS using integrated sensors.

TARGETED IMPACT

- Higher safety level & early safety warnings
- Improved battery operation & thermal management
- Extended range by optimal capacity use
- Improved fast charging
- Improved battery maintenance
- Increased lifetime as a result of better battery management & control
- Higher economic value of battery pack for 2nd life usage
- Selective re-use and recycling

BATTERY 2030+

SENSIBAT is part of the BATTERY 2030+ initiative which is a large-scale research initiative of seven projects and a total budget of 40.5 million euros.



BATTERY 2030+ initiates the first phase of inventing the sustainable batteries of the future. The projects will contribute to the implementation of ultrahigh performance, reliable, safe, sustainable and affordable batteries.

OBJECTIVES www.battery2030.eu

