

## 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

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## 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  
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**AUSTRIAN INSTITUTE OF TECHNOLOGY**  
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# sensibat

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



[www.sensibat-project.eu](http://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 2<sup>nd</sup> 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](http://www.battery2030.eu)

