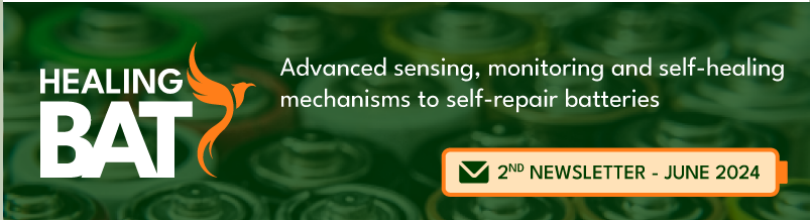


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What have we been up to?

HEALING BAT is a European research project that brings together 10 organisations from 6 countries to investigate the batteries of the future. Throughout its lifetime, we will develop and implement self-healing materials and healing strategies deploying embedded sensors and actuators in key battery components. The work is based on a lithium-sulfur (Li-S) chemistry, and the designs and concepts we develop will be extrapolated to a new class of self-restoring Li-S batteries.

To date, all partners have concentrated their efforts on developing a technology flow that ensures the compatibility of the numerous approaches necessary to embed sensing and actuating capabilities into a battery cell. Based on a thorough analysis of the thermal, chemical, electrochemical, and mechanical framework conditions, the consortium has developed a roadmap to produce its sensing elements.

Right now, HEALING BAT is heading straight for its first major milestone, which will see its sensing technology embedded into a Li-S-based battery cell for the first time. The consortium hopes to find a viable and long-term stable way to integrate advanced functionalities directly into the battery cell based on its own sensor/actuator technology. In parallel, several self-healing approaches are tested and shall be ready for triggering by the time the sensorised battery cell becomes viable.

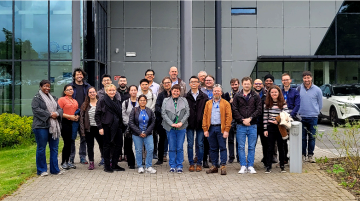
Find out more about the HEALING BAT project!

 Our project partners

 Our work packages

 Our project resources

Latest events



2nd General Assembly in the UK

The whole consortium met at CPI facilities in Sedgefield, UK, to share the progress of the first year.



Battery 2030+ Annual Conference

HEALING BAT was presented in by TU Dortmund at the annual event of this large-scale research initiative.

Recent releases



Promotional materials

Our official brochure, poster, and roll-up are ready, as well as our first infographic. Don't miss them out!

[Download](#)

Join us and be part of the batteries of the future!

Would you like to get involved in a Horizon Europe project and conduct pioneer research on self-healing batteries? Join the HEALING BAT's team! Contact us now to be informed about the vacancies that our partners have available.

[Contact us](#)



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