# Press Release

## The EVBAT project unveils the new e-motorcycle prototype at EICMA

***Instant swaps keep you on the move with EVBAT's smart swappable batteries system.***

Milan, 4 November 2025

For immediate release

Supported by the EIT RawMaterials, the EVBAT project brings together HYBA's innovative technology, a swappable, lightweight battery system, the POD, with the design and manufacturing expertise of Vent Moto for urban and off-road motorcycles. The motorcycle is currently in its development phase and is presented at EICMA, at Vent Moto's booth - Hall 7, Booth 10- to gather pre-orders and customer interest. The final production model will be commercialized during the course of 2026. This e-motorcycle stands out as a unique product in the market, combining Vent's renowned build quality and dynamic performance with the best of Made-in-Italy electric technology. As Michele Perani, HYBA's CEO, says: "This motorcycle embodies Vent's DNA — precision, performance, and passion — now powered by cutting-edge Italian electric technology. It's a new chapter for riders who want excitement without compromise." HYBA provides Battery as a Service, enabling professionals to rent or buy HYBA batteries tailored to their needs.

HYBA's POD solves two major challenges for electric vehicle owners: heavy batteries and long charging times. It's 7 kg lighter than the lightest EV batteries in the market, while discharged batteries can be swapped with fully charged ones in a matter of seconds, as quick and simple as a stop at the gas-station. Powered by the POD, EVBAT' e-motorcycle eliminates range anxiety without compromising in performance, making electric mobility more convenient than ever. The key innovation of HYBA's technology lies in the modular POD design: non-welded allow easy maintenance and cell replacement.

Users can also monitor the battery's performance in real time, through the Telematics Control Unit, integrated into the POD, supported by an AI-powered Battery Management System. LEVOX, a Spanish company specializing in optimizing battery assets, joins the consortium to develop the cloud platform and smart swapping station that enables easy battery exchange and efficient fleet management. LEVOX's platform will support the battery analysis and predictive health diagnosis, offering fleet managers operational control in a single-place, real-time.

The main driver behind the EVBAT's technology is safety and sustainability. The POD design allows for easy disassembly, on contrast to conventional lithium-ion batteries, facilitating reusability and recycling. This way the system saves critical raw materials such as lithium and cobalt, while reduces $CO_2$ emissions by 30% in the battery value chain. Institute of Energy Systems and Environment (IESE) of the Riga Technical University, also partner in the project, will evaluate the environmental sustainability of the technology, demonstrating its positive environmental impact. Additionally, leveraging the reduced emissions coming from the use of the HYBA's batteries, IESE will develop guidelines to issue carbon credits.

To maximize the project's results and successfully engage with industrial actors and academia, as well as the public, SE&C IKE, from Greece, will coordinate the communication campaign and dissemination activities.

Supported by

eit RawMaterials
Connecting matters

Co-funded by the European Union

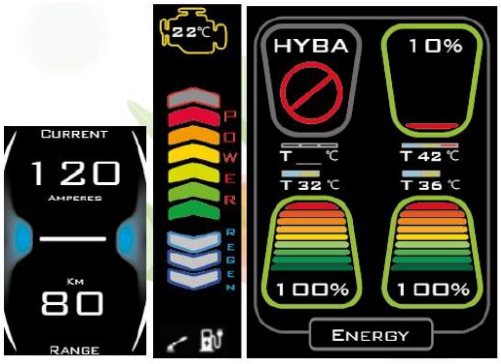
Predictive Cell Diagnosis and status:
Analysing leading indicators (SOC) and (SOH) enables the diagnosis of battery cell issues in advance.

Estimates the remaining time until the end of useful life

DATA COLLECTING (Battery and GPS information)

Data can be used for cloud-based fleet analysis

Use for on-board vehicle as part of the BMS in order to give real-time OEMs and Fleet managers on the performance of batteries.




*The AI-powered Battery Management System allows users to monitor the battery's performance and health real-time.*


*The EVBAT consortium at Vent Moto facilities during the project kick-off meeting, September 2025.*

## Acknowledgements

EVBAT is a RIS Innovation project supported by EIT RawMaterials and co-funded by the European Union, with proposal number: 24619.

## Contacts

Michele Perani, CEO, HYBA, e-mail: **michele.perani@hyba.eu**

Supported by

eit RawMaterials
Connecting matters

Co-funded by the European Union