

# Project

The **BATTwin** is a 42-month project, which received funding from the European Climate, Infrastructure and Environment Executive Agency under grant agreement No. 101137954 (€ 6,355 million grant).

The objective of **BATTwin** is to support the high demand for battery manufacturing equipment in Europe, by developing a novel Multi-level Digital Twin platform towards Zero-Defect Manufacturing in battery production, that will reduce defect rates in battery production lines. The solution integrates four pillars, namely (i) a multi-sensor data acquisition and management layer, supported by data semantics through a Digital Battery Passport data model, (ii) process-level digital twins, modelling the critical stages of electrode manufacturing, cell assembly and conditioning through multi-physics, data-driven and hybrid approaches, (iii) system-level digital twins, based on simulation and analytical modelling, (iv) user-centric, goal-driven digital twin workflows, increasing the explainability of digital twins and driving the user in system design and control.

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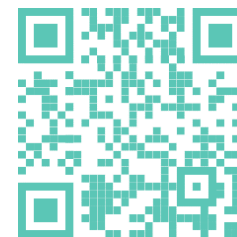
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*This project has received funding from the European Climate, Infrastructure and Environment Executive Agency under grant agreement No. 101137954. The contents of this leaflet are the sole responsibility of the parties and cannot be considered as reflecting the position of the European Union.*

*UK Participants are supported by UK Research and Innovation (UKRI) under the UK government's Horizon Europe funding guarantee.*



Flexible and scalable  
digital-twin platform for  
enhanced production  
efficiency and yield in  
battery cell production  
lines



[www.BATTwin.net](http://www.BATTwin.net)

# Project partners



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