

ZELD-e

2022



A project by



Zero-defect wELDing for e-mobility

Project consortium

Circular Economy

Green Manufacturing

Low Environmental Footprint Systems



Summary

The ZELD-e project aims to reconfigure and update the existing monitoring and control scheme of the welding processes involved in tab-to-tab and tab-to-busbar joining of battery modules and packs used in BEVs, in order to increase the joint quality, reduce and even eliminate defective parts, optimise equipment's productivity, energy consumption and minimise development time and time-to-market.

The proposed solution/system is based upon a multilevel approach, including the enhancement of the sensorial configurations, the data acquisition (DAQ), and control functionalities located at the edge (shop floor), backed up by a centralised web-based platform with visualisation, quality assessment and data processing/analysis capabilities paired with a long-term control optimisation scheme for supporting the decisions of the operators.



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