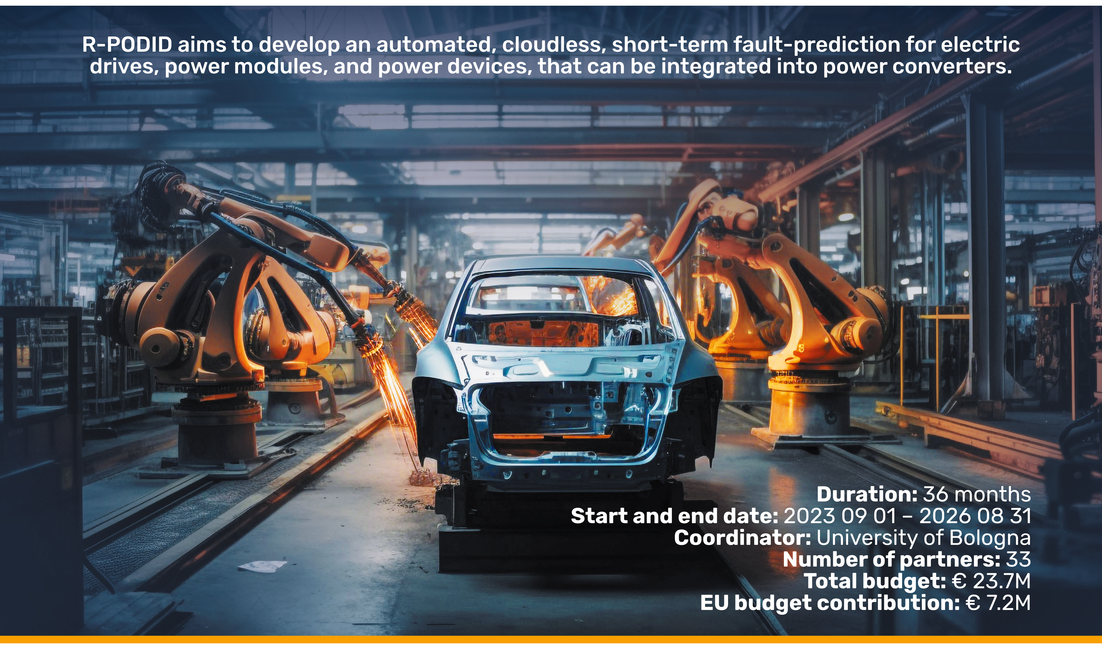
R-PODID - RELIABLE POWERDOWN FOR INDUSTRIAL DRIVES

R-PODID aims to develop an automated, cloudless, short-term fault-prediction for electric drives, power modules, and power devices, that can be integrated into power converters.

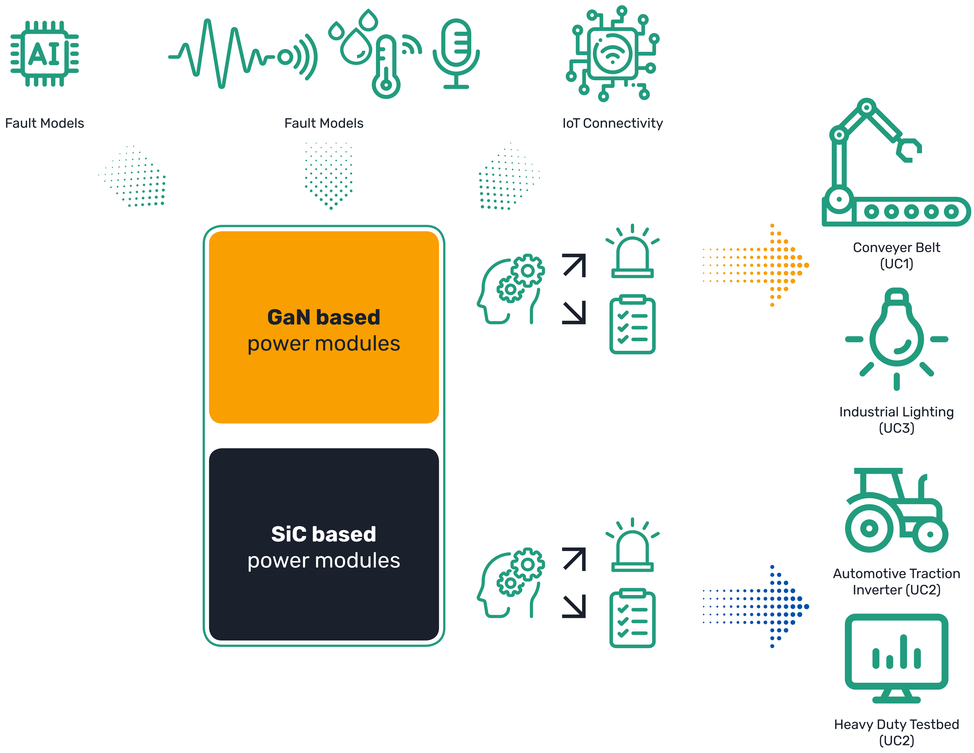


Duration: 36 months
Start and end date: 2023 09 01 – 2026 08 31
Coordinator: University of Bologna
Number of partners: 33
Total budget: € 23.7M
EU budget contribution: € 7.2M

R-PODID OBJECTIVES:

- Methodology for fault-prediction model generation from sparse training sets or system simulation
- Power electronics with integrated support for embedded AI
- 24 h fault-prediction for Gallium Nitride (GaN) and Silicon Carbide (SiC) based power converters
- 24 h fault-prediction and fault mitigation for electric drives
- Sensors for reliability prediction in power modules

Innovations within R-PODID are implemented into the power modules and applied in the four use cases:



PARTNERS:

ACKNOWLEDGMENT:

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