



Get in touch with us!



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PlatformZero_EU



Platform-ZERO



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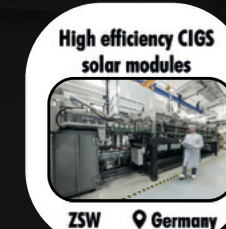
Platform-ZERO

Achieving zero defect manufacturing for the photovoltaic industry

Platform-ZERO aims to tackle the challenging issue of reducing PV manufacturing defects through development of a new customizable in-line process monitoring platform supported by artificial intelligence.

Demonstrators

Platform-ZERO innovations will be tested in four PV manufacturing lines across Europe:





Objectives

Sensor Stations



Platform-ZERO will develop advanced sensor stations compatible with customizable sensor arrays for morphological, physicochemical and/or optoelectronic in-line inspection of PV industrial production.

Photovoltaic Devices

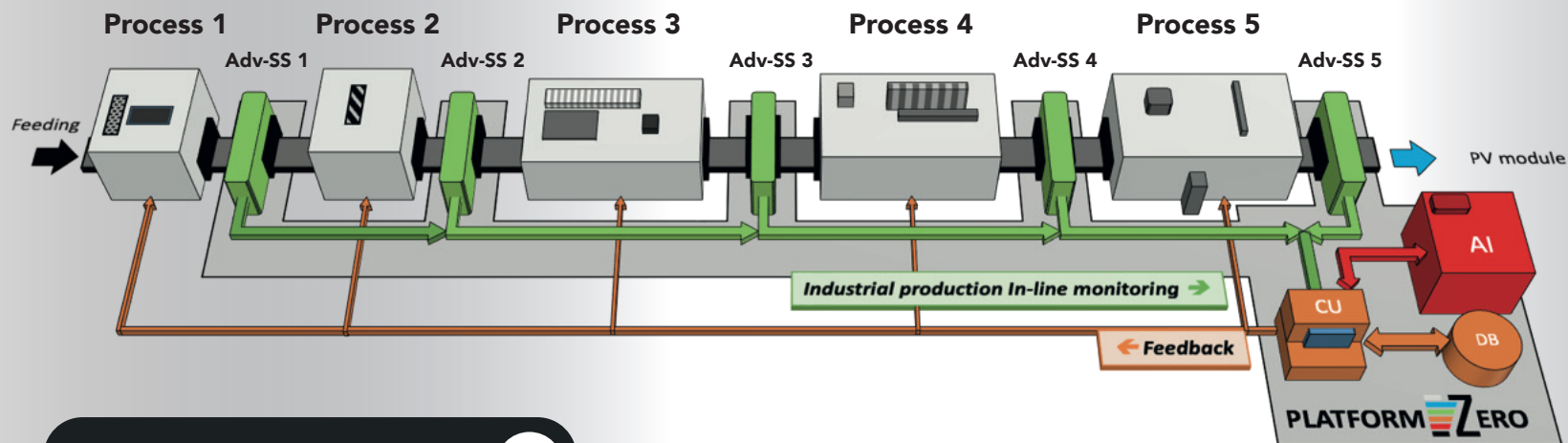


Implementation and installation of functional process monitoring platform in 4 PV manufacturing lines across Europe.

AI System



In Platform-ZERO an innovative AI-based prediction and decision-making system will be developed along with methodologies compatible with heterogeneous data, real-time monitoring, and process control.



Data Management



It is projected to develop a big data infrastructure, control unit and GUI software for managing the large amount of data generated by the platform. AI self-learning algorithms will be developed and further implemented.

Zero Defect



The overall goal of the Platform-ZERO project is to develop a holistic modular in-line process monitoring and control solution for the third generation PV industry. The proposed solution will be implemented as a smart and highly flexible platform.

Monitoring Platforms



PV manufacturing optimization by validation of the PMC platform developed in the project to minimize manufacturing defects.

