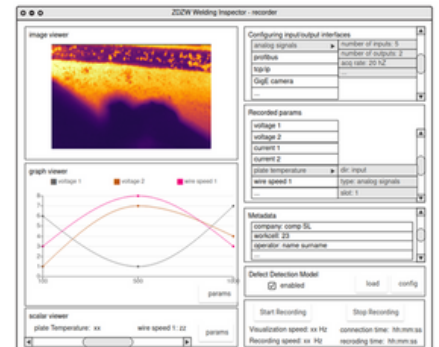# WELDING PROCESS MONITORING

**Online welding defect detector, enabling early detection of potential flaws during welding operations, leading to significant time and material savings**

## SOLUTION DESCRIPTION

This solution caters specifically to **welding SMEs** with a notable expertise in automation but a moderate level of digitalization. It aids SMEs in monitoring their systems and leveraging advanced data analysis techniques for effective data modeling. This facilitates the **creation of an online defect detection system, alerting users to possible defects during welding processes**.

For this solution, a software and hardware system are installed within welding facilities to gather real-time data from the welding process. In the subsequent stage, the collected dataset undergoes analysis and correlation with Non-Destructive Testing (NDT) information. This analysis aids in the **creation of predictive models for online defect identification**.





## MAIN BENEFITS

▶ Enables an early actuation on defect correction, reducing waste on reworking time and scrap

▶ Easy to add new sensor and communication protocols

▶ Offers a powerful tool to analyze the real welding process

▶ Can be adapted to different welding processes

PRODUCT OWNERS: