Measuring production quality in the moment to promote continuous improvement in the future

"Our field automation gathered a lot of data about the continuous casting, but before this project implementation we monitored data for reactive interventions only. Together with the Deloitte IoT and Data Science experts we designed and deployed an IIoT infrastructure that, thanks to the predictive quality layer, can now identify possible future issues in our production processes allowing us to intervene before the issue actually occurs"

—Client Head of Production

QUICK STATS

- Manufacturing sites: 10
- Employees: 1,500

THE ISSUE

As the standards for construction continue to rise, the standards for component structures must rise to meet them. How can you leverage SAP® solutions to help modern metal-forming processes benefit from continuous, data-driven refinement.

THE SOLUTION

Casting and forming metal products for construction and infrastructure use requires performance to high tolerances. ABO Data, now part of Deloitte, used SAP® Leonardo to help a major European organization collect information related to its casting process—capturing data on more than 70 parameters every second. Machine learning uses the resulting data set of more than 5 million records to fine-tune processes and uphold quality standards.

SAP technologies leveraged

SAP Leonardo IoT

SAP HANA®

SAP ECC

SAP Fiori®

SAP Analytics Cloud

THE IMPACT

- Quantitative analysis on the most influential parameters that influence billet quality
- Real-time predictive quality to detect potential issues early and modify process parameters accordingly
- IoT and machine learning used to enhance predictive maintenance capabilities in a manufacturing environment

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