

Case study

infopulse



**Manufacturing**  
Company

# Predictive Quality Models and Advanced Analytics Reduce Production Defects and Expenses

Client: Group of Steel and Mining Companies

Industry: Manufacturing

Location: Ukraine

Employees: 90 000+

## Our customer

An international group of steel and mining companies with USD 9 billion revenues.

## Business Challenge

- Working on the development of predictive quality models, our data scientists faced the problem of poor quality of exported data (incomplete, insufficient, etc.) needed for training a model.
- Additional time and efforts were spent for cleansing and preparing data for predictive modelling.

## How we helped

- Established advanced analytics infrastructure and customized models for the quality prediction in casting stainless steel slabs
- Built visually rich reports on the probability of slab defects based on the product parameters (steel grade and gauge of sheets)

## Business Value

- Reduced a number of defects, which potentially result in additional 250-300 of steel sheets per month for separate kind of steel grade
- Decreased costs for defects detection
- Improved decision-making and the manufacturing efficiency

## Technologies

SAP Predictive Analytics

SAP HANA

SAP Data Services

SAP BI

SAP ERP

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