

Data-based quality management

„We are working with infoteam to generate additional decision-making bases for development measures from machine data. We are very satisfied with the implementation of the task and the results achieved. From the data analyses we get insights that help us to improve our quality even more.“

Regine Meunier, Siemens Healthineers

For our client:

SIEMENS
Healthineers

Initial situation

- Specialist department at Siemens Healthineers develops, produces and supplies a wide variety of components for a broad portfolio of high-quality medical devices
- Collected data is available for most components (e.g. operating data, production data, maintenance data)
- **Goal:** collaboratively identify use cases that can be analyzed with the available database
- **Goal:** analysis of the collected database for quality management issues (incl. linking of data: data engineering)
- **Goal:** visualization and provision of the analyses for the corresponding specialist departments at Siemens Healthineers

Solution

- Long-term and iterative collaboration with Siemens Healthineers
- Linking of data sources for the development of application models
- Apply statistical methods and artificial intelligence algorithms to extract visualizations (using Qlik Sense®) from data to inform decisions
- **Example 1:** Determining reliability for selected components and linking it to maintenance costs
- **Example 2:** Creating motion profiles using reinforcement learning based on collected operating data for use in realistic endurance tests in the laboratory



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