

# Data-driven process optimization

Test process optimisation in the manufacture of sanitary facilities

## Ausgangslage

Geberit AG is a globally active Swiss group in the sanitary sector. At the end of the manufacture of sanitary facilities, a detailed quality inspection is carried out. This is an important process step before delivery of the Swiss quality product. The already high quality, consistency and short process time of the quality inspection is to be further improved by analyzing historical test data. In addition, data analyses are to be used to gain insights into and draw conclusions about the production process.

## Kundenwert

- Avoidance of end customer complaints
- Better understanding of the testing process
- Improved employee training on the testing process
- Recognition of possibilities to reduce the testing time
- Cost savings with fewer production errors

## Erkenntnis-generierung

- Based on the data analysis, a workshop provided new insights into the testing process. Important measures could be derived from this.
- Three projects with high benefits were identified, two of which could be implemented immediately.

## Informations-generierung

- The testing process was analyzed with the LeanBI data science platform. New findings could be drawn from this with machine learning models.

## Daten-generierung

- The data is continuously generated on Geberit's test benches and historicized in databases. Data is available for several years.

## Umsetzung

- The project was carried out in cooperation with the m&f Engineering AG.
- The project was completed within a few weeks. First insights were gained after only a few days.

## Lessons Learned

- With a suitable data science platform, time and costs can be saved during project implementation.
- The right insights can only be gained in cooperation with specialists. This requires people with engineering knowledge on the data science side.

