Project Overview

The manufacturing process consisted of several raw material inputs and process parameters which could affect the quality of the output. The company had a well-defined method for checking the quality of the finished products and detecting defects. It also maintained records of defects and production parameters batch-wise.

About The Client:

A Multinational automobile component manufacturing company.

Case Survey

- Drive down manufacturing defect percentage.
- Identify the root causes, and narrow down on biggest influencers

Technology

Regression techniques
**Detailed Flow**

- **Structured Data**
  - Business Cases
  - Unstructured Data

**Our Solution**

- Root cause analysis identified significant contributors: - Production parameters, Process parameters, Quality attributes of raw materials
- Analytics methods - Regression analysis techniques (logistic, stepwise, etc.) identified the most significant process parameters and raw material attributes contributing to the presence of defects.
- Identify remedies and train users

**Business Benefits Delivered**

- Identified root causes and narrowed down on the errors through training the users.
- Significant increase in operational savings

**Defects**

- Defects reduced by ~40%

**Operational saving**

**About InterraIT**

InterraIT is global IT consulting & services company providing business software solutions that improve operational efficiencies, address organization’s unique business needs, and allow better ways to access and manage information at lower TCO & faster ROI. Established in 1996 & headquartered in San Jose, InterraIT is a ISO 9001-2015 SEI-CMM level 5 assessed and certified organization with world-class delivery.

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