

Real Industry
Use Case
#02

CAMELOT Analytics Use Case

Data-driven Analysis of Project Structure Plan Elements

Project blueprints for
quick & powerful insights



BENEFITS

- ▶ Enables identification of critical errors in classifications
- ▶ 3 critical errors in classifications identified
- ▶ Inconsistencies between guidelines and practice identified
- ▶ The eligibility to activate a plant using classic data analysis and machine learning is now predictable
- ▶ Identification of further use cases and synergies with existing initiatives



Data-driven Analysis of Project Structure Plan Elements

To keep track of individual steps even with many projects, a data-based analysis of the project structure plan elements can identify weaknesses and help optimize them. This creates a higher transparency. By using an approach that combines text mining and text understanding, inconsistencies and opportunities for improvement are made visible. This aids for example in the correct activation and allocation of completed workloads in company accounts.

Uncovering project controlling inconsistencies



CHALLENGES

- ▶ Failing overview of existing project data due to a steadily growing number of projects that are maintained in multiple systems
- ▶ No binding or applied references and rules for individual items' accounting in project
- ▶ Individual items in projects have not been applied in a binding and consistent manner
- ▶ Uncertainty and uncertainty regarding the project status and balance sheet activation obligations
- ▶ Mis-classifications were not highlighted due to the complexity of the underlying manual approach



APPROACH

- ▶ Quantitative analysis for a complete overview of inventory data
- ▶ Machine learning-supported topic classification
- ▶ Qualitative interviews with SMEs to test and review the findings
- ▶ Derivation of weaknesses and blind spots within existing processes for data maintenance and updating
- ▶ Evaluation of reasons and causes for data inconsistencies



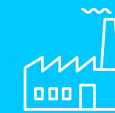
RESULTS

- ▶ Semantic data model in the project creation and management process connected with corresponding SAP objects
- ▶ Visualization of the existing data and inconsistencies
- ▶ Universal suggestions for analyzing the project element structure
- ▶ Trained machine learning model for automated classification of short project texts

> 90%

accuracy for balance sheet capitalization of project elements

SETUP



INDUSTRY
Transportation



REVENUE
~ €9 bn.



EMPLOYEES
~ 35K



TIME TO VALUE
6 months



APPLIED AREA
Artificial intelligence & data science