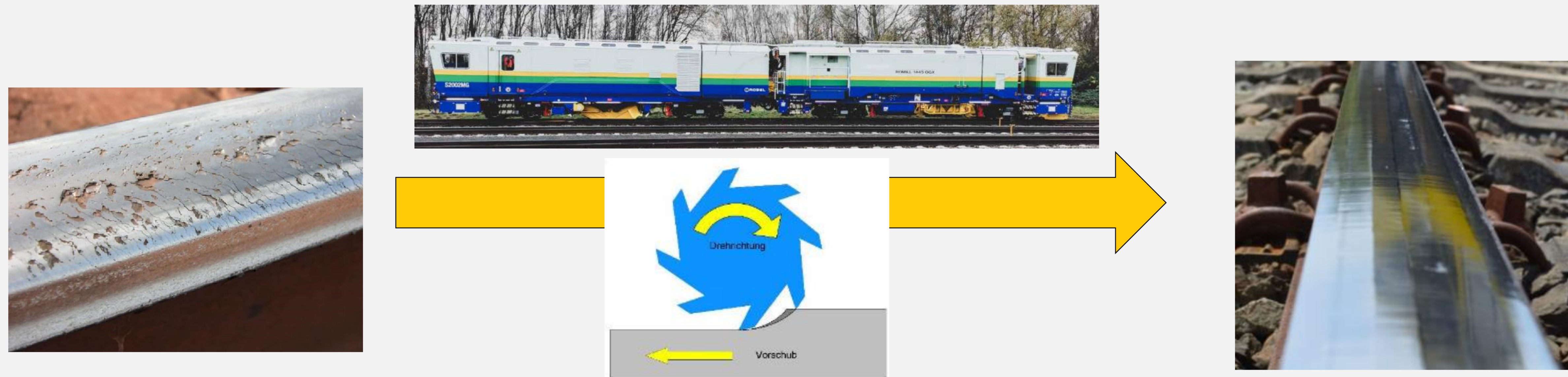# Innovationlab

Technische Hochschule Rosenheim

Robel Data Science
"Staying on Track in the Data Maze"

Starting point

We have data from trains „milling" tracks:

Challenge because…

4 years of data   +700 columns   total freedom

Motivation and goals

- Orient ourselves in vast data
- Deliver useful insight for our client (Robel)

Results

- Robel's data is suitable for Machine Learning
- We can describe what the train is doing based on the data
- We prepared data for further analysis
- Jupyter Notebook with all our other findings has been delivered

How did we achive results?

- Understanding the process and the data is one of the most vital steps
- Ask engineer what columns could be interesting and focus on them (700 -> 30)
- Without a direct goal, it's a good idea to try to model reality
- Coaching from **Information Professionals GmbH**
- Applied **CRISP-DM**

info|pro

Advanced Analytics Solutions

Clustering

Classification

ROBEL

ROBEL Bahnbaumaschinen GmbH

Faculty of Computer Science
"Practical Software Engineering" Summer 2024
Prof. Dr. Gerd Beneken, Prof. Dr. Wolfgang Mühlbauer