

Reliable Turnouts

Background

- Turnouts are the core elements of rail infrastructure
- Their reliability is crucial for the system availability
- Digitalization provides a huge potential for the optimization of development and maintenance

Requirements

- Systematic investigation of turnout failure risks – RAM(S) approach
- Usage of all available data for analytics of functional anomaly and damage indicators (Fault Detection)
- Reporting to trigger condition based and preventive maintenance.

Customer Benefit

- Transparent health state of turnouts, value from monitoring data
- Avoidance of unplanned downtime and failure reoccurrence
- Turnout-specific knowledge base for failure risks
- Digital foundation for the CBM/PDM process and guided problem solution

The Solution with Uptime HARVEST

- Root-cause focused risk analysis with turnout experts from the customer
- Model development and verification with sensor data from customers
- Derivation of a risk-focused instrumentation and analytics of time-series data

