



INTELLIGENT TURNOUTS

Digital Performance on Track®

The turnout is considered to be a very decisive asset in the railway system, since malfunctions cause a big amount of costly delays or interruptions. That's why we chose to focus on optimizing this exact part of your track in order to support you in making its usage more efficient through our technology, creating the following benefits:

- » Predictive and prescriptive maintenance is enabled
- » Less and shorter downtimes result in better overall performance
- » Extend lifetime of assets and components
- » Reduced maintenance costs
- » Increased availability and profitability

Crossing Area Monitoring

Prognosis and diagnosis of the wear state and the remaining service life result in optimized maintenance.

Component Temperature Measurement

Temperature measurements and data from weather services enable an algorithm to determine the temperature at different points on the rail.

Switch Assembly Monitoring

Critical (switch) rail positions such as the distance between switch and stock rail for normal and reverse position, as well as the nearest flangeway are monitored in order to provide essential maintenance information.

Intelligent Switch Machine

Switch machines and their components are monitored in order to forecast and diagnose failures.

Track Quality & Ballast Condition

Track degradation and sleeper movement caused by passing trains are monitored. Sleeper displacement and rotation are measured to diagnose track degradation, predict critical states, and propose optimal timing for maintenance (e.g. tamping).

