

# zedas<sup>®</sup>asset



Continuous linear  
asset management  
for rail infrastructure

 zedas

# Challenges in rail infrastructure

The maintenance of the functionality of the rail infrastructure is one of the most important strategic tasks. The availability, reliability and safety of the track must be guaranteed and documented at all times.

## Challenges:

- » High need for investment
- » Limited budgets
- » Obligation to provide documentation and proof
  - Warranty management
  - Allocation of resources



## Special features of linearly extensive rail infrastructure components

Special features which are specific to rail set demanding requirements for the specialists for the maintenance process:

- » Representation and evaluation of the current status of the system:
  - occurrences, damage, shortcomings
  - status assessment based on cyclic deadlines
- » Management of changing types of construction in the tracks and of all rail infrastructure components (e.g. overhead contact lines, traction supply, bridges, level crossings)
- » Processing of the large amount of measurement data from:
  - Visit
  - Test drive
  - Inspection
  - Drive with video
- » Continuous recording of the maintenance history

# Recording all processes: simple – consistent – current



zedas®asset for rail infrastructure supports you through:

- » Clear status evaluation through inclusion of information sources without breaks in media
- » Integrated, automatic analysis of measurement data, archiving and evaluation
- » Exact, complete recording of the history of all maintenance and construction measures
- » Legal security through unbroken documentation
- » Complete data basis for planning and prognoses

## Simple

User-friendly display of all maintenance processes which are specific to rail

## Consistent

Seamless recording of data without breaks in media or the need for additional input

## Current

Current evaluation of the system status at any time



continuous support in the management, planning, maintenance and monitoring of components of the rail infrastructure.

## Condition - based information

## Linear Asset Management

## Maintenance

### Communication



mobile support  
online/offline

measurement data  
condition data  
inspection data  
fault report  
visual examination

### Communication



mobile support  
online/offline

orders  
response  
material  
warranty  
measurement data

### Diagnosis

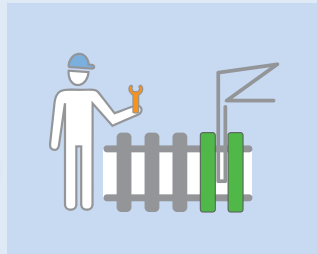
measurement data evaluation  
classing  
condition analysis

### Maintenance

**plan:** operations, work package, material, staff  
**actual:** material consumption, time, costs, new condition (construction form, etc.), warranty  
**maintenance strategies:** korrektiv, preventive, condition - based

### Up-to-date asset condition

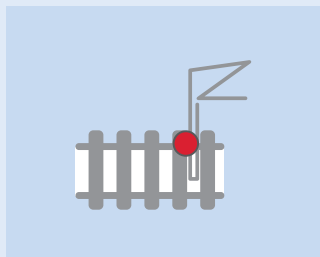
documentation  
capital budgeting  
history  
forecast



**maintenance, overhaul and operations**

cyclical measurement/  
inspection

**preventive maintenance**



fault

**corrective maintenance**

## Interfaces

### Interfaces to existing systems

- >> ERP systems
- >> Operating systems
- >> GIS solutions
- >> ...



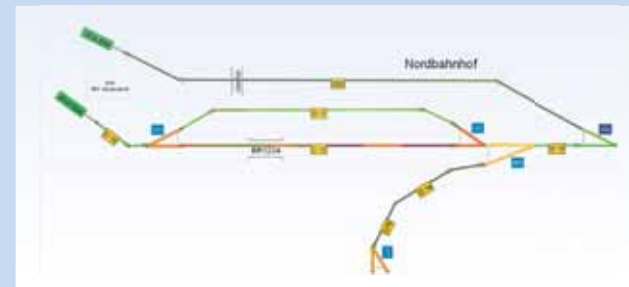
## Reports and Visualisation

### Reports and analysis

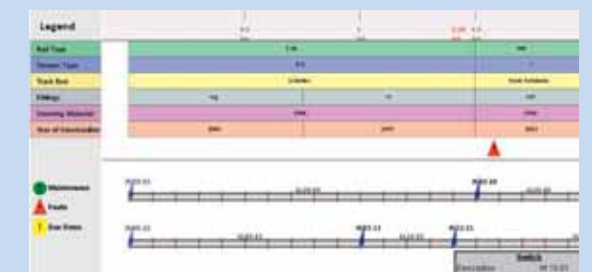
- >> Condition tendencies and prognosis
- >> Task prioritisation plus evaluation
- >> Investment planning
- >> Substantial decision support



## Track Health Visualisation



## Track Analyser



## About PC-Soft

ZEDAS GmbH develops software products for the maintenance management of vehicle fleets and technical systems and for the logistical management of rail traffic. With more than 25 years of experience and a specialised, powerful network, we support professional customers worldwide.

Our standard solutions offer administrative and operative support for process management in specific sectors. Our customers have access to experienced consultants who provide excellent expertise for the complete implementation of their projects.

The update and upgrade service in the maintenance contract and the comprehensive 24/7 support guarantee reliable operation. We ensure continuous innovative developments for the solution which offers our customers a high level of investment security.

Our expertise in the rail market and our many years of experience guarantee that your project will be implemented successfully.

Current information at [www.zedas.com](http://www.zedas.com)

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