zedas®asset

zedas®asset Track Analyser
Find out more about the state of your linear assets

Cyclic measurement
Automatic

Cyclic measurement /
on-site inspection / service
Semi-automatic

Registration
Fault / defect
Manual

zedas®asset

Track Analyser

A
B
C

**Cost /
Condition Index**

Analysis

Condition

History

Capital costs

Resource planning
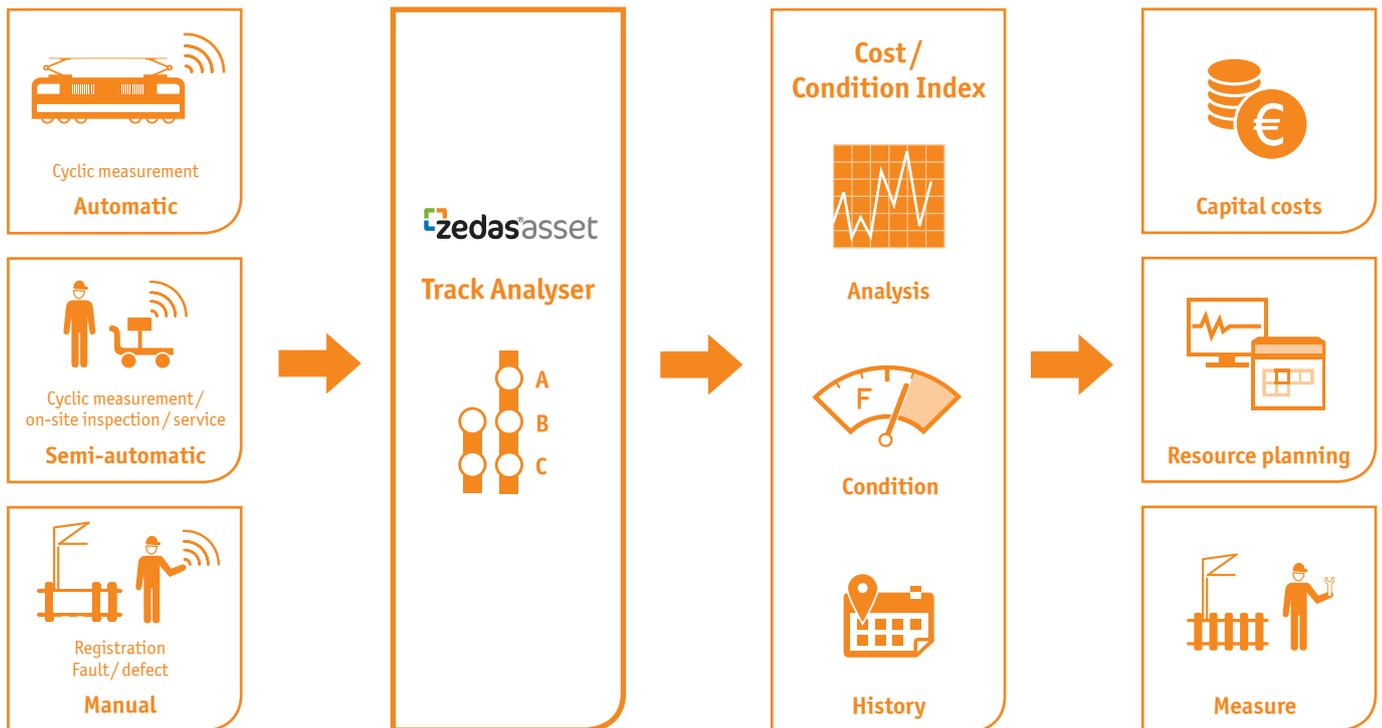
Measure

Highlights

- Graphic representation of the route characteristics and measurement data regarding linear assets

- Display of all preventative and corrective measures

- Positionally accurate status information

- Display of the system history

- Integrated automatic measurement data analysis, evaluation and archiving

- Practically tested techniques determine the route status taking all measurements into account

- Prognosis function for the status and remaining life service

- Comprehensive support for detailed budget planning and strategic investments

Exhausting potential

The consolidation and evaluation of data from various sources such as surveying, instrumented test runs or overhauling is a huge challenge. The zedas®asset Track Analyser facilitates the linear display of the geometry of a route and provides the most important information about the track, courses, intersections, the catenary as well as about the signal and safety technology. Status information and measurement data are displayed in relation to the precise location. Furthermore, information regarding planning, realization and feedback from jobs from the management system zedas®asset are integrated. This allows the user to perform an exact analysis of the overall status. Use this resulting potential as a strategic factor for creating success and added value.
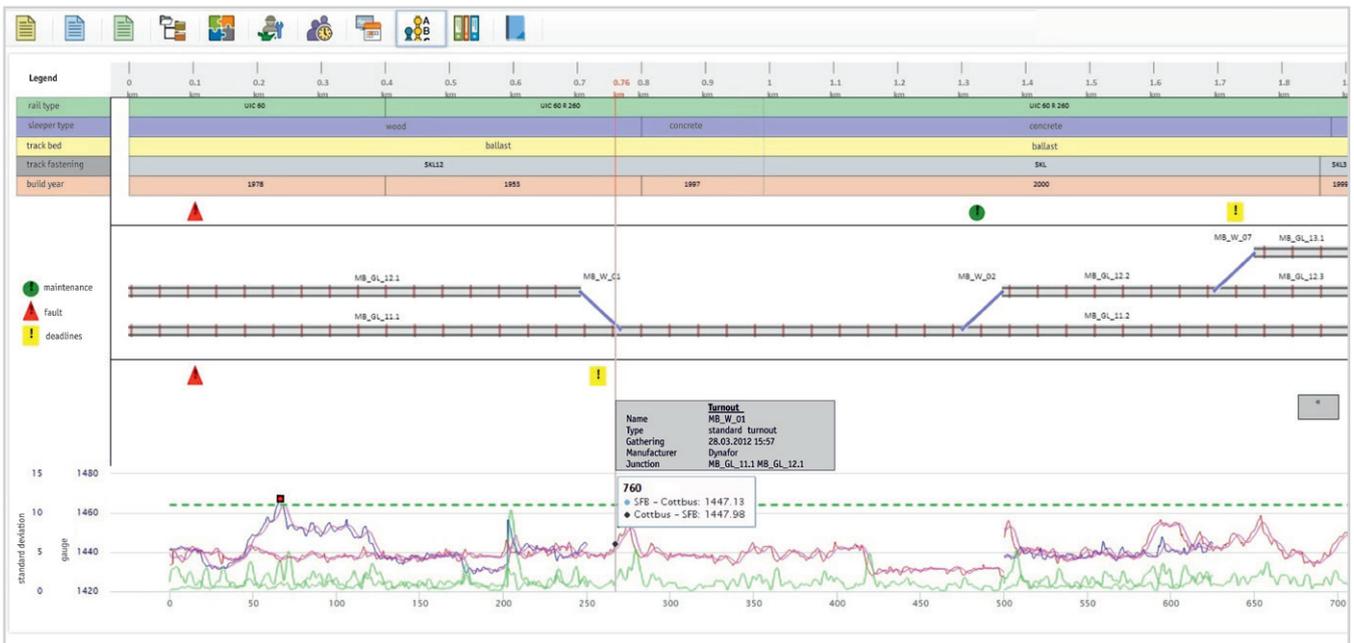
zedas®asset Track Analyser: Object, position and condition information

Integrated diagnosis function

It is possible to import measurement data into zedas®asset from various sources using the configurable standard interface. Homogenising (in relation to object, position / kilometrage, the same resolution / measurement accuracy and the temporal classification) is performed automatically from the abundance of heterogeneous data in zedas®asset. The data can be evaluated automatically using the display of the measurement series in diagrams with the integrated measurement cursor and together with the pertinent parameters. Statistical characteristic values such as sliding mean value and standard deviation help to detect changes in the status of the infrastructure objects. Violations of the parameters are displayed.

Prognosis

Particularly helpful is the comparison of the current measurement series with measurement data from the past or with reference data. Deviations and trends which indicate a significant change can therefore be detected with positional accuracy. This evaluation can also be performed automatically with all measured parameters by using a mathematically founded multivariate diagnostic technique. A single index provides information about problematic areas as well as the causative measured parameters. With this information, more precise forecasts of the remaining useful life can be made. Required maintenance measures can also be planned and budgeted more efficiently.
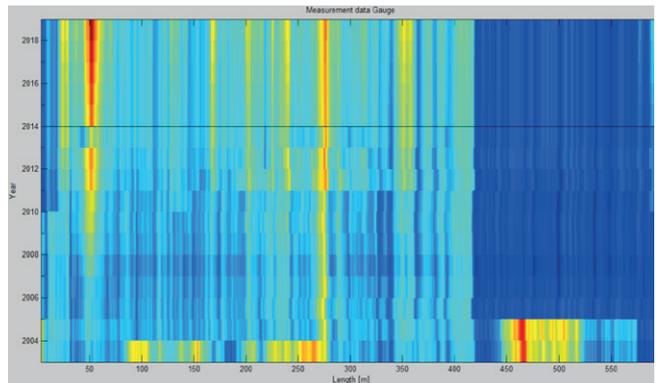
Display: Data history from the past 10 years (below) and prognosis period for the next 4 years (above)

Cost / Condition Index

In order to decide when and what financing measures should be taken, complex considerations such as status degression of the expenses and the duration of all measures as well as consequences resulting from lack of availability are required. The Cost / Condition Index, serves as an assistant for decision making in these cases. It associates specified factors in one custom-developed assessment scheme, which is founded on the experience in using the zedas®asset Asset Management System. In general the higher the index, the more urgent the measure.

If you have any further questions, please contact us!