

Press release

Intelligent digitalisation of infrastructure

Senftenberg (Germany), 24th April 2019 – Climate protection, the energy revolution, the traffic watershed – all of these terms have a common factor. Sustainability. The railway, which is still the most environmentally alternative in comparison with other means of transport, has thus also been given an opportunity. In order to further enhance this advantage, the railway must be a consistently reliable, safe, and punctual mode of transport. Functioning infrastructure is required for this. All of the track and electronics infrastructure should therefore be digitally managed and monitored, and maintenance should be digitally managed.

Today, digitalisation makes many things possible. Above all, this is all about the correct illustration of the fixed assets, as well as the establishment of appropriate analysis and reporting options. In practice, many stand-alone IT solutions are often used for this which generally do not entirely work together and are not able to recognise complex connections. One integrated asset management system provides the solution: zedas[®]asset from ZEDAS, the specialists in railway software.

Weak point analysis – zedas[®]asset Track Analyser

In order to prevent downtime on a route, it is now possible to forecast when a section will no longer be passable using automated weak point analysis. It can thus be repaired or replaced before failures and faults occur. Track condition is visualised, analysed, and evaluated in the zedas[®]asset Track Analyser using measurement data and maintenance information. Here, measurement data from various manufacturers of measurement instruments is integrated using standardised interfaces. Available resources such as materials or manpower are thus used in a more targeted manner without having a negative impact on day-to-day operations. The load data, as well as recorded faults, are taken into account here. The comparison of current measurement values with older measured data or with reference data is particularly useful. This allows precise forecasts to be made regarding the remaining service life of railway assets.

Mobile maintenance – zedas[®]asset Mobile

Track faults are documented and repairs are reported using the zedas[®]asset app, which works both online and offline. This information flows directly into the condition evaluation for the infrastructure and is incorporated into the automated maintenance planning. Retroactive entries and sources of error are thus avoided. The inspector has mobile access to checklists, maintenance



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information, and error catalogues on the track. Faults are quickly recorded and classified, including precise position determination via GPS and allocation of photos, with the help of a saved error catalogue. It is thus also possible to make the work easier for external service providers since they are paperlessly included in the job process. All inspections and maintenance jobs are documented and traceable.

Investment planning – zedas® asset Invest Manager

In addition to planning the best time technically for reinvestment, the best time in terms of economics is also critical. To this end, an investment decision can be made and the full life cycle of an asset can be reached thanks to multiple planning scenarios with freely selectable influencing factors. These include the intensity and duration of use or the date of construction, for example. As a result, it is possible to forecast cost and ageing scenarios with the help of real data. The master data, histories, and planning data for the asset form the basis for this.

With a universal asset management system, the railway track is operated safely, reliably, and economically. This means that consistent and continuous monitoring of the condition of the infrastructure is possible in real time.



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About ZEDAS GmbH

ZEDAS GmbH develops software products for maintenance and systems management of rolling stock and railway infrastructure systems and for logistics management in rail freight transport. Since it was founded in 1990, it has looked after corporate clients around the world with an effective specialist network.

The standard software solutions offer administrative and operational support for process management in specific industries. Experienced consultants who provide excellent know-how in the full implementation of projects are available to the clients/users. The update and upgrade service through a maintenance contract and the comprehensive in-house 24/7 support guarantee reliable operation. ZEDAS GmbH ensures a process of continuous innovation of the solution in order to offer its clients high security of investment. Expertise and many years of experience in the railway market ensure that the client's project is successfully implemented.

Current information can be found at www.zedas.com