MR.pro

Asset management software for track networks

vossloh
enabling green mobility

Problem description

Infrastructure managers stuck in the lack of reliable data, or too many unstructured data, without information over the entire network

All infrastructure managers need to focus on their budget, where at the same time they need to keep up with KPI's as like availability, punctuality, passenger comfort, noise and vibration issues.

At the same time they must meet the minimum safety issues and treshold values of their assets and verify those against official authorities on a regular base, which is normally done by measurement and visual inspection.

Usually they also have no clear overview about the impact of the taken maintenance measures, early and future diagnosis of upcoming failures or investment budget in long-term.

They stuck in several software solutions or simply not digital readable, fracmented documentation of operational and master data.

As a result, they are currently not accountable for the actual condition of their track system and in a poor negotiating position with their budget provider.

Solution description

Asset managemt System with all relevant data and all relevant processes in one structured database – digital twin

The software consists of four pillars:

1. Expert System
Inventory and status data, measuring inspection data and interfaces to any measurement system. Automized expert advice during inspection.

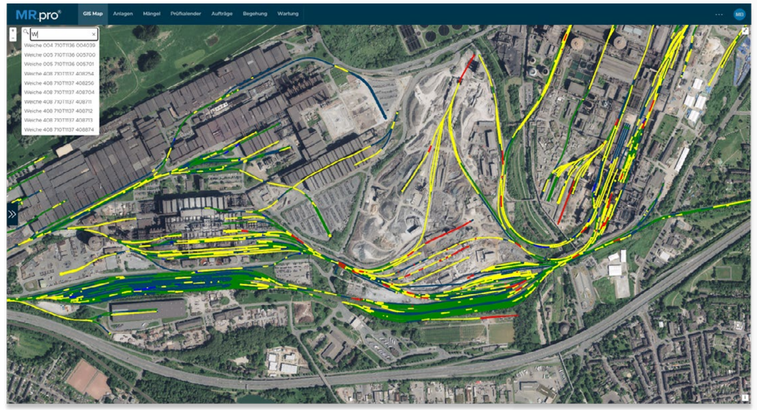
2. Data Management
Localisation and assignment, Object database framework

3. Maintenance -Management
Analyse, plan, conduct and control all maintenance measures related to each object

4. Asset Management
Substance Evaluation, Lifespan, Investment / Renewal Strategy, Optimimized Configuration, lessons learned, Technical Controlling and with interfaces to ERS systems like SAP commercial controlling.

Consequently gathering relevant data leads to a digital twin. It allows on site inspection and maintenance surveillance. The entire network and every single object with all relevant information appears synchronized in your pocket.

The substance evaluation of every single object leads to the wear reserve index (KAV) for the entire network. Stable quality, safety KPI's guarantee a long term planning without surprises. The right maintenance regime reduces average costs in the long term.



Additional Features make life easier

Out of the daily use by inspection experts, the features are practise driven since 25 years

- **Georeferencing:** The GIS Map Viewer is used to quickly identify objects
- **Life history:** Learn how your assets behave and make predictive maintenance happen
- **standardized modules** for the structured recording of master and condition data
- **Preconfigured Object Types**, as like Switches, Tracks, Buffer stops, Level crossings, Platforms, Bridges, Point machines, signalling, Catenary / masts
- **Mobile App:** Defects can be recorded at any time on mobile devices and made available to all users as centrally stored information
- **Authority proven and conform inspection reports**, stay always legally compliant

Hardware

Due to the cloud structure, any internet-enabled device can be used. Measuring data can be importet via Interface manufacturer-independent.

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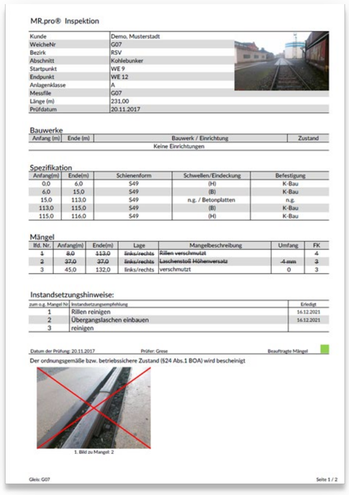
Additional Features

- **Maintenance Management:** the software consists of a full planning tool with interface to SAP
- **Dashboard:** Have your entire network condition / KPIs in one view
- **Failure classes:** Defined by user / regulations, normally class 1 - 4
- **Multi-user system:** Online application and graduated user & rights management
- **Multilingual:** stored tables enable quick switch between languages
- **Expert System:** developed directly by experts and with high practical value
- **Effort reduction:** planning, control and documentation efforts reduced significantly


MR.pro® Inspektion

Kunde	Demo, Musterstadt
Weiche	G07
Bezirk	RSV
Abschnitt	Kohlebunker
Startpunkt	WE 9
Endpunkt	WE 12
Anlagenklasse	A
Messfile	G07
Länge (m)	231.00
Prüfdatum	20.11.2017

Bauwerke

Anfang (m)	Ende (m)	Bauwerk / Einrichtung	Zustand
Keine Einrichtungen			

Spezifikation

Anfang(m)	Ende(m)	Schienenform	Schwellen/Eindeckung	Befestigung
0.0	6.0	S49	(H)	K-Bau
6.0	15.0	S49	(B)	K-Bau
15.0	113.0	S49	n.g. / Betonplatten	n.g.
113.0	115.0	S49	(B)	K-Bau
115.0	116.0	S49	(H)	K-Bau

Mängel

lfd. Nr.	Anfang(m)	Ende(m)	Lage	Mangelbeschreibung	Umfang	FK
1	8.0	13.0	links/rechts	Rillen verschmutzt		4
2	27.0	27.0	links/rechts	Laschenstoß Höhenversatz	4 mm	3
3	45.0	132.0	links/rechts	verschmutzt	0	3

Instandsetzungshinweise:

zum o.g. Mangel Nr.	Instandsetzungsempfehlung	Erledigt
1	Rillen reinigen	14.12.2021
2	Übergangslaschen einbauen	14.12.2021
3	reinigen	

Datum der Prüfung: 20.11.2017 Prüfer: Grosz Beauftragte Mängel

Der ordnungsgemäße bzw. betriebssichere Zustand (§24 Abs.1 BOA) wird bescheinigt

1. Bild zu Mangel 2

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