



**RODIAS**

YOUR DIGITAL TRANSFORMATION SPECIALIST



## EFFICIENT MAINTENANCE INSTEAD OF LONG WAITING TIMES KÖLNER VERKEHRS-BETRIEBE AG

Kölner Verkehrs-Betriebe AG (KVB) operates the local public transport system of the city of Cologne. This includes the Cologne city railway and the city bus lines, as well as the Cologne cable car. As a company with a long tradition, Kölner Verkehrs-Betriebe has been an integral part of Cologne since 1877.

In 2019, 286 million people used the KVB's trams and buses. They covered more than 55 million carriage kilometres. The company made a turnover of almost €300 million in 2019. KVB also makes an important contribution to climate protection by offering many options for climate-friendly transport within Cologne as one of the biggest German cities. Nine electric buses are currently in operation and 53 more will follow by 2021.

The KVB's workshops play a not inconsiderable role in the smooth running of local public transport. In the main workshop, in four depots and - if necessary - also mobile on site, around 420 employees not only carry out regular maintenance work, but are also well equipped for unforeseen repairs - day and night, 365 days a year.



Köln  
Kölner Verkehrs-Betriebe AG

### Industry

Mobility & Transport

### Employees

3.800

### Headquarter

Köln

### Challenge

Necessary version change of the existing maintenance system with simultaneous merging of the three areas of light rail, bus and ticket vending machines into a holistic system solution

### Solution

IBM Maximo

### Benefits

- > Real-time overview of all vehicles
- > Facilitation of the processing of orders and material planning
- > Automatic work plan generation

## CHALLENGE

KVB has been using IBM Maximo to manage its heterogeneous vehicle fleet and its technical components for over 20 years. Now a version change of the maintenance system in version 4.11 that had been used since then was pending.

The company was faced with the decision to renew the previous system or to introduce a completely new system. KVB had to decide which EAM system would be best suited in the future to flexibly master the upcoming functional and legal challenges around maintenance and servicing.

In addition, the ticket vending machine technology was to be included alongside the light rail and bus sectors and merged into a holistic system solution. The new EAM system should also fulfil all documentation obligations in an evidence-proof manner and include a mobile solution.

## SOLUTION

The choice fell on the EAM system IBM Maximo 7.6 EAM system because it offered the required functional flexibility, user-friendliness, interface diversity and expandability for weak-point analyses.

Another advantage of the system is that in its final configuration it can also be used as an early warning system for the technical equipment in the areas of light rail, buses and ticket vending machines. RODIAS GmbH was selected as the implementation partner in a Europe-wide tender.

During the implementation, the master data was optimised and the existing individual solutions were merged into an integrated overall solution. In addition, the mobile fault clearance service was equipped with networked and customised mobile solutions. This way, all employees and responsible persons have an overview of the entire technical actual inventory as well as optimal search options at all times. Through the additional deep integration of SAP applications such as materials management and procurement, the KVB workshops now have a real-time overview of the condition of the vehicle fleet as well as the complete order situation.

## BENEFITS

Thanks to the consolidation of common structures into one EAM system and the integration with SAP applications such as materials management, payroll, human resources and procurement, the KVB workshops now have a real-time overview of the status of the vehicle fleet and the complete order situation.

KVB workshops now have a real-time overview of the status quo of vehicles in use or inactive. They can also check all components (e.g. components (e.g. bogies, hydro tanks or other interchangeable components).

Mobile applications facilitate the processing of orders and the disposition of materials and provide for an evidentiary and identifiable documentation of completed orders. Added to this is the automatic generation of work plans based on the KVB's own coding system - another effect that ensures higher vehicle availability through efficiency gains in maintenance.

RODIAS is a medium-sized IT service company specialising in systems for the maintenance of complex technical facilities and buildings. With an agile approach and innovative approaches, we realise Industry 4.0 solutions for our customers based on current software technologies.

As part of ROBUR, RODIAS offers even more: Almost 3,000 colleagues work worldwide in the industry segments wind, water, energy, industrials and process industry. As a competent partner to our customers, we create integrated solutions from planning and realisation to installation, operation, maintenance to relocation and dismantling.