

RailXplore ARCS



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The data analytics tool to enhance the performance monitoring and error analysis of communication-based-signaling systems of operations.

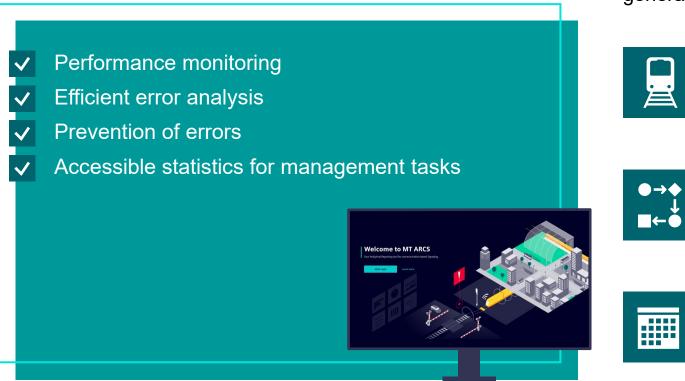
RailXplore ARCS (Analytical reporting for communication-based signaling)



Product Description

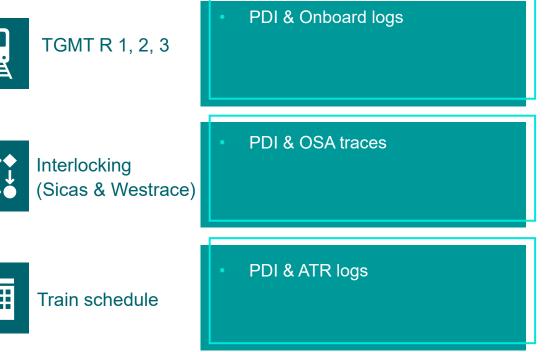
Public transportation and railway operators face system errors and maintenance disruptions that hinder their efforts to achieve optimized operations. **RailXplore ARCS** enables the detection of errors at

RailXplore ARCS application

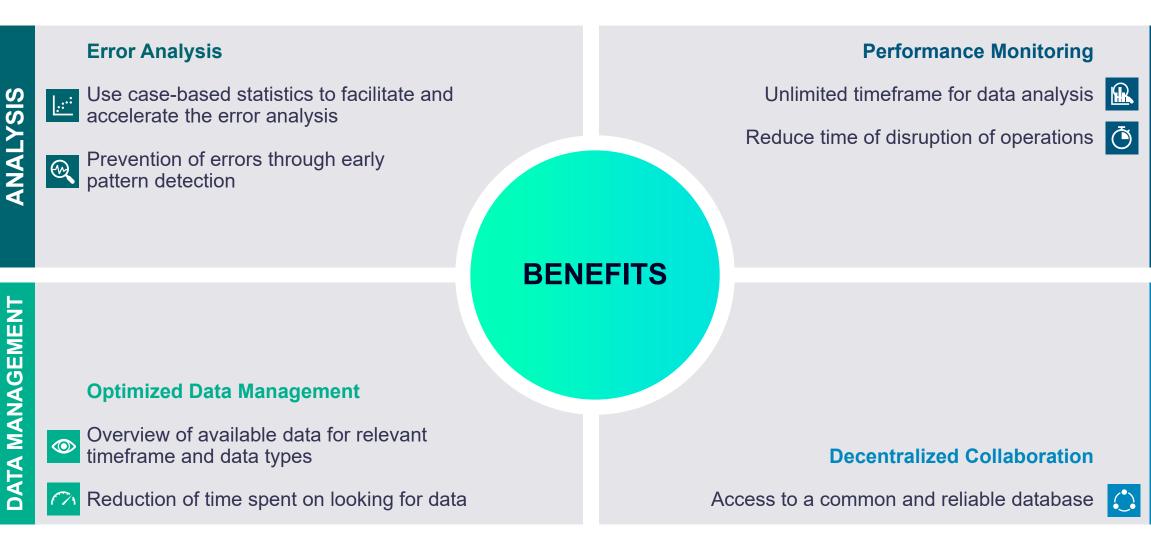


runtime while giving information about the performance of all related subsystems. This accelerates the error analysis needed to realize to reduce the disruption of operations and required man-time.

RailXplore ARCS compiles and analyzes reliable PDI data or logfiles from Siemens subsystems to provide insights into the general system performance and error occurrences:



Benefits of RailXplore ARCS



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PERFORMANCE

COLLABORATION

Key Functionalities

Dashboard Overview

- General view about operations and events & alarms
- Exportable statistical visualizations
- Support for presentations and decision making
- Improve of collaboration with decentralized teams due to easy access to reliable database

Operations

- Information about the mode of distribution per train
- Charts about critical and high-priority alarms
- Information about train events and alarms based on event position

Events & Alarms

- Early prevention of errors
- Detection of missed stopping points
- Provide data for feasibility studies by evaluating change requests and beneficial changes

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Key Functionalities

Performance Analysis Monitoring and analysis of:

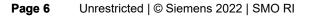
- Energy consumption
- Train speed profiles
- Operation modes
- Operator alarms
- Headway
- Punctuality

Error Analysis

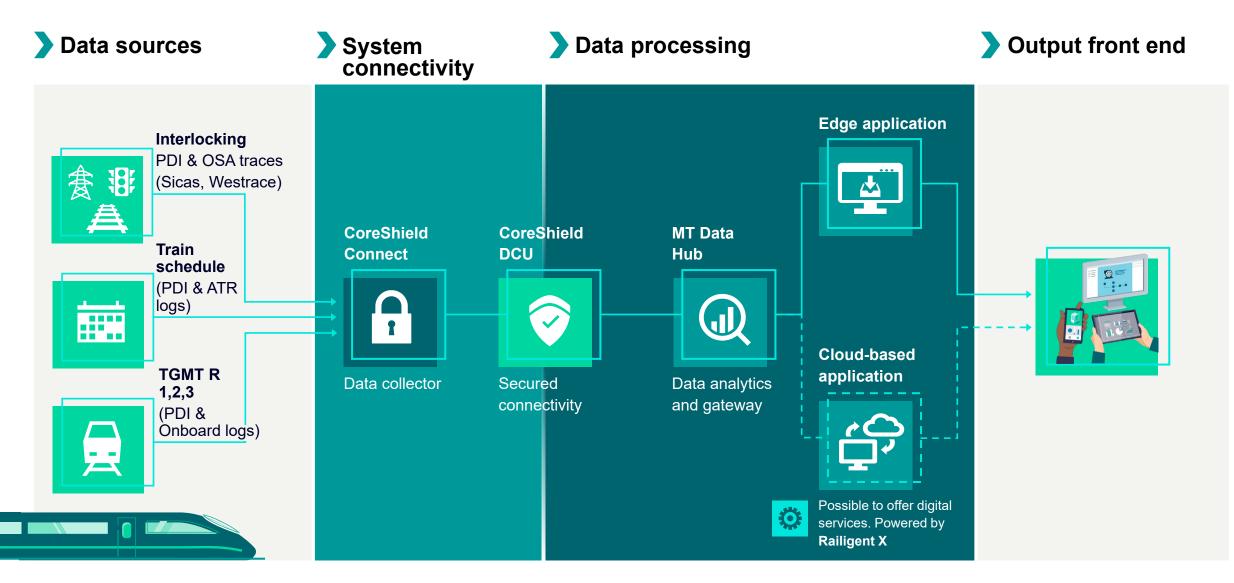
- Balise errors
- Train alarms
- OBCU-errors
- Emergency brakes
- Stopping points missed
- Platform screen doors error



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System Architecture



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References

Salvador

Brazil

During project execution many alarms were triggered per day due to two wrong cable connections. This would have not been discovered that fast without using **RailXplore ARCS.**





References

Copenhagen

Denmark

RailXplore ARCS revised the occurrence of emergency brakes and checked all the missed stopping points, to produce quick and accurate analysis and statistic reports that otherwise would have taken hours. With this, the customer saved time and gained valuable data.

RailXplore ARCS also analyzed the behaviour regarding speed and acceleration to calculate all the necessary parameters and provided the customer with easy visualization of the data so that an optimization of the trips could be performed.





References

Istanbul

Turkey

During project execution, the customer noticed some balise failures, but could not identify accurately which were affected. **RailXplore ARCS** helped to identify quickly which balise was causing the problem. After solving the problem for this balise, new data has been analyzed, in order to make sure that the failures were fixed.





Contact

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