

Mobility Customer Services supports all service related topics and makes rail operations even more efficient with innovative technologies at all levels

Customer Services Mobility Management



Customer Services Turnkey Projects & Electrification



Customer Services Rolling Stock



Spare Part
Services



Rail Monitoring Systems (MRX)



Digital Services



Mobility Services as leader in digital services



We shape connected mobility with integrated and digitalized processes for 100% system availability

From "Traditional" Maintenance to Predictive Maintenance and Operations
Optimization: We combine data analytics and deep rail domain know-how

Via our
Railigent
Open
Ecosystem
powered by
MindSphere



With the goal to:

Improve Maintenance

Ensure 100% operational availability

Optimize operations

3 years of succesful Lastochka operation in Moscow enhanced with Siemens Mobility Digital Services

- Sep16: Launch of Moscow Central Circuit
- 129,5 mln passengers transported in 2018 (11% of total railway passenger turnover in Russia)
- Number of trains will be increased from 36 to 45 due to high passenger demand (headway – 4 minutes)
- 24/7 full service by Siemens in digital depot Podmoskovnaya
- 100% fleet connectivity enables smart monitoring, data analysis and prediction



Siemens ensures reliable Moscow Central Circuit operation – From proven on-site maintenance to digital services





Depot Podmoskovnaya

- 24/7 full service on-site
- 80 5-car trains
- >99% fleet availability
- Modern depot designed according to Siemens requirements





Data Service Center Moscow

- Our open ecosystem powered by Railigent Siemens railway IoT system
- Proximity to maintenance operations
- Data services for infrastructure and rolling stock
- Smart monitoring, analysis and prediction for Lastochka traction motors, doors, HVAC and more



Thank you very much!





Johannes Emmelheinz

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siemens.com/mobility-services

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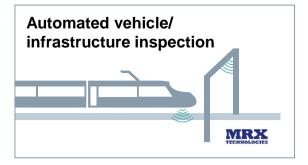


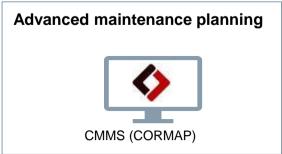
Backup



Shaping connected mobility with integrated and digitalized processes for 100% system availability







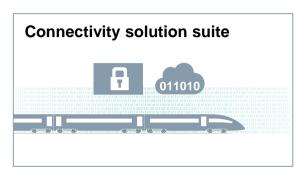






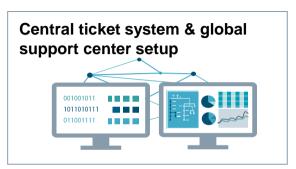












As our customers' trusted partner, we set the benchmark in terms of SIEMENS availability in the rail industry with our global service network

Worldwide network of

>60
service sites

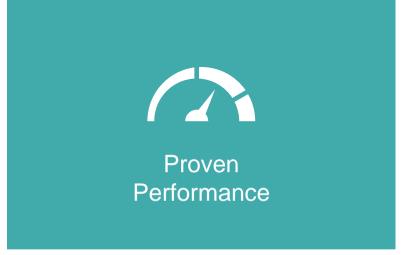


>99%
delivered availability in >30 projects



Present in

>40
service countries with
>88 ongoing
maintenance contracts



Data analytics and applications on our open ecosystem Railigent® tosiemens help our customers improve return on their rail assets



Rail asset data

Rolling stock

Rail vehicles today send between 1 and 4 bn data points per year

Signaling

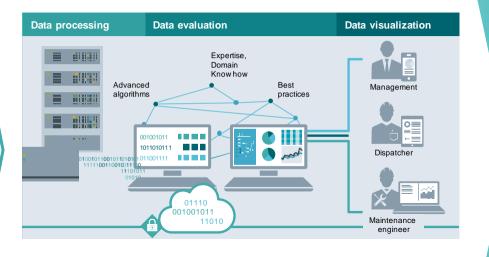
Rail infrastructure/signaling can send up to billions of messages per year inside the system

Infrastructure

Measurement results from infrastructure provide up to 1 TB per run/ measurement round

Railigent application suite

powered by MindSphere



Improve Maintenance

Ensure 100% operational availability

Improve operations