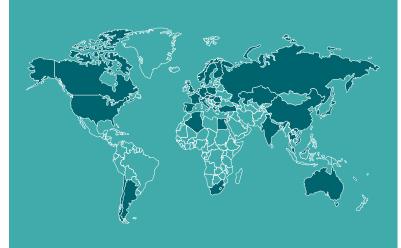


As our customers' trusted partner, we set the benchmark in terms of availability in the rail industry with our global service network



Worldwide network of

>60
service sites



>30 projects with delivered availability

>99%



Present in

>40 countries with 88

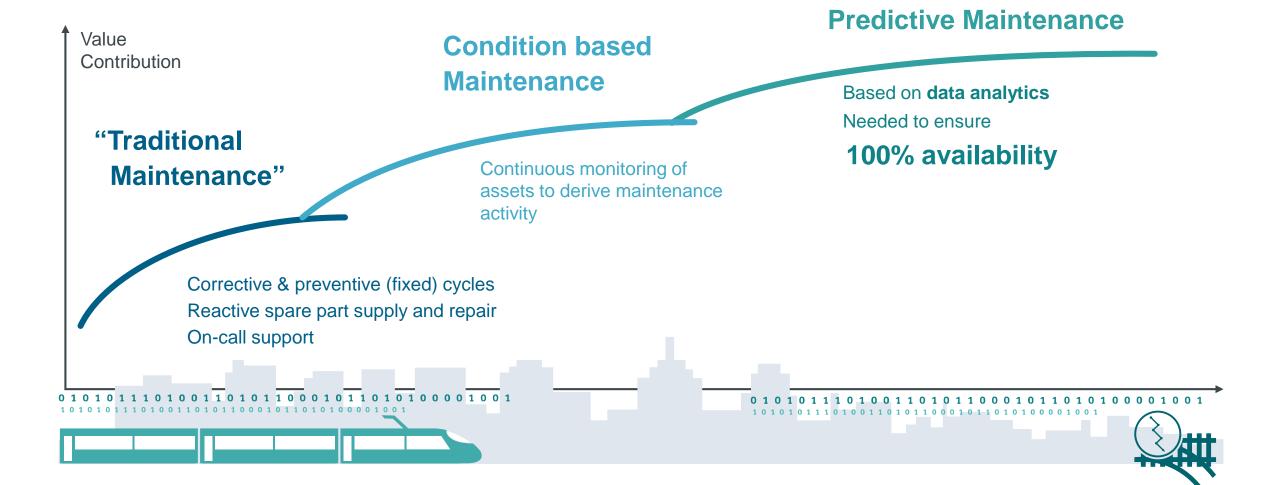
countries with 88 Performation ongoing service projects



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The evolution of maintenance processes New possibilities enhanced by digitalization





The basis of our services business lays in 5 pillars with our people as the basis and foundation



100% System Availability

Innovations

We set **benchmarks** and are recognized as **innovation leader**, e.g. by leveraging the latest IT-technology and new manufacturing methods.

Portfolio

We offer **cost- competitive** services
and **create value** for our
customers with adapted
solutions based on the
modularity of our service
offerings.

Processes

We improve our processes continuously and increase efficiency by applying best practices across the entire business unit.

Serviceability

We constantly feed customer service requirements into the system design and leverage lifecycle cost reductions and enhanced reliability as competitive advantages.

Network

We share our knowledge, implement competence hubs and leverage our regional setup to ensure highest customer proximity.

We are there – The People of Siemens Mobility Services

Data is available – the challenge is to turn it into value-add



The data available

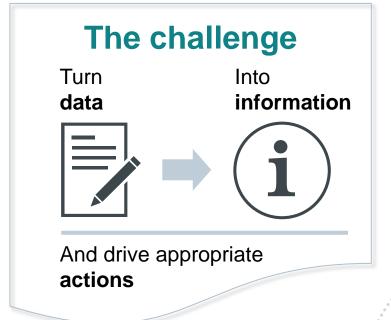
A fleet of 100 regional trains delivers every year:

- > 50 million diagnostic messages
- Up to 100 billion network data points
- 5 to 200 billion time series data points

Additional data

- Work orders/spare-parts data
- Operations Control System data
- Advanced Vehicle Inspection data
- Geographical data
- Weather data

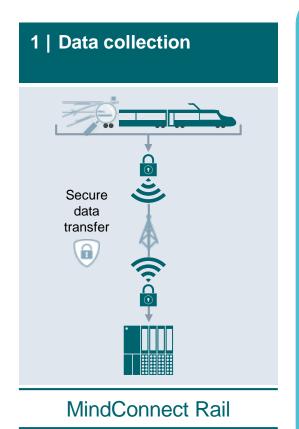
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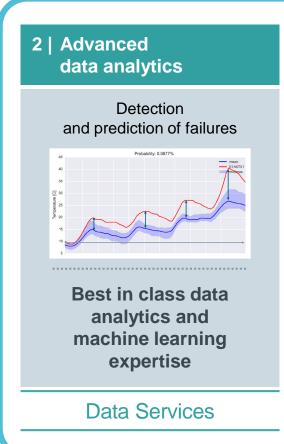


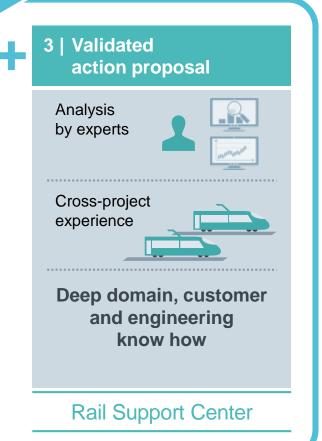
Ensure
100%
availability

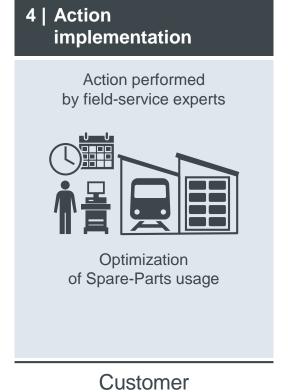
The differentiating factor is the combination of data analytics and deep rail know how to guarantee highest availability

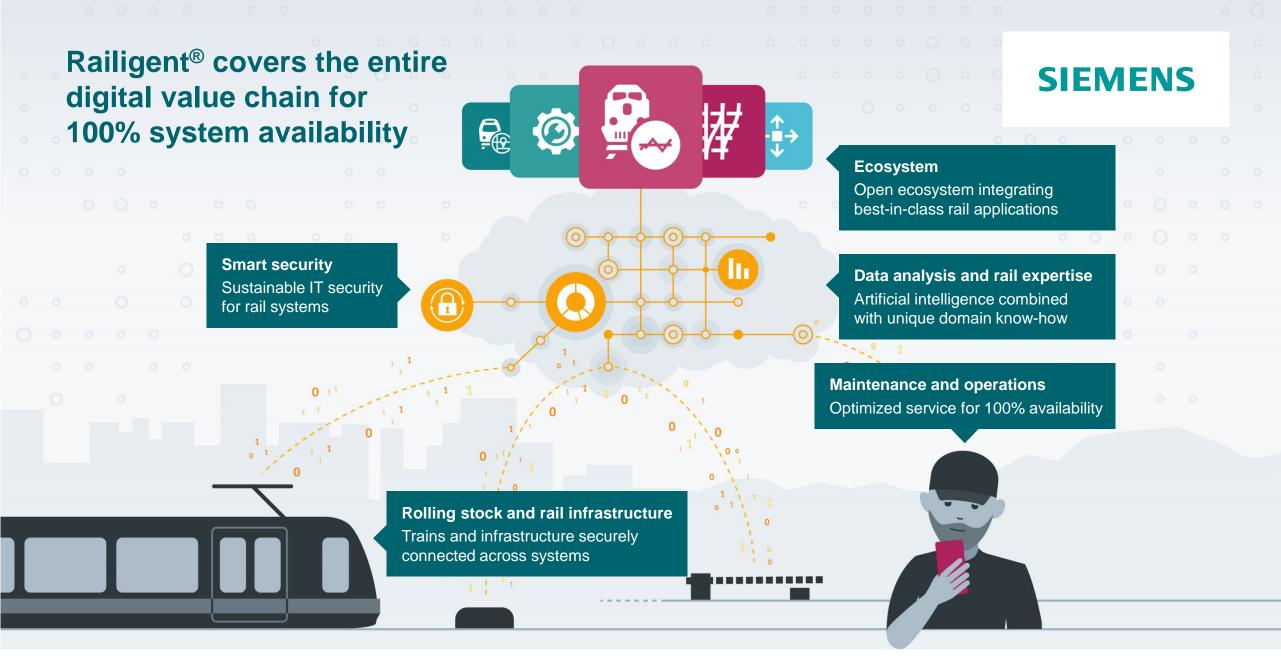












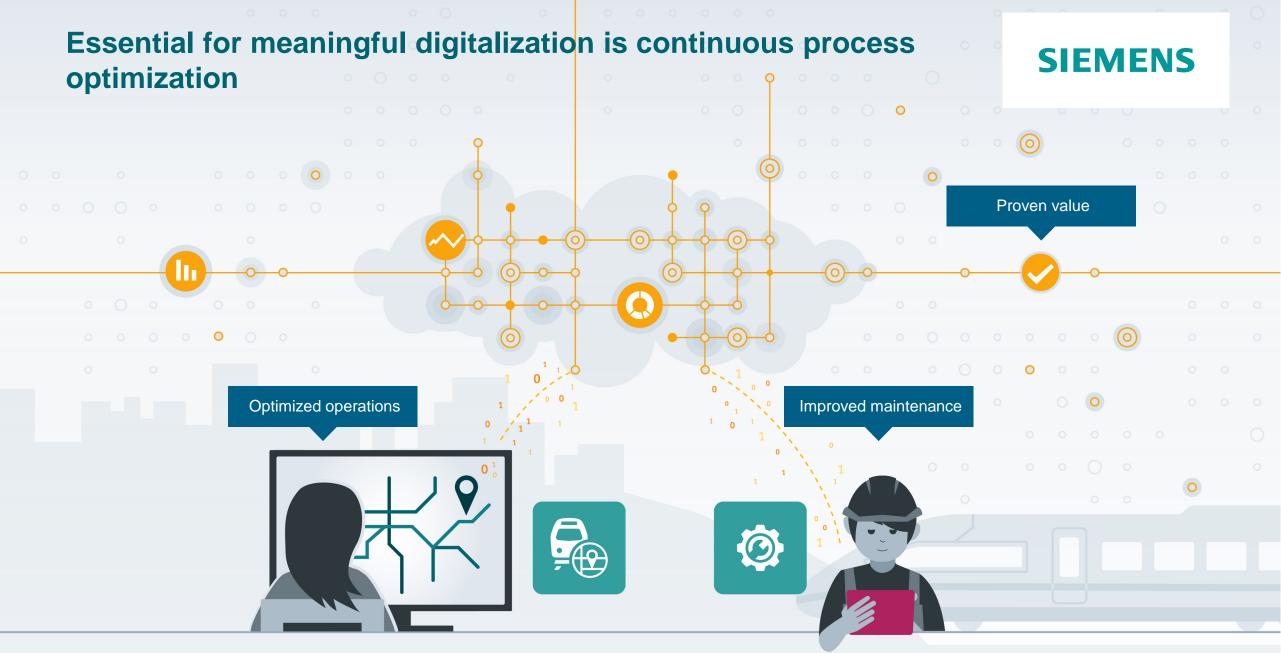
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Railigent® has evolved into an open ecosystem with 15 partners – Many more wanting to join

SIEMENS



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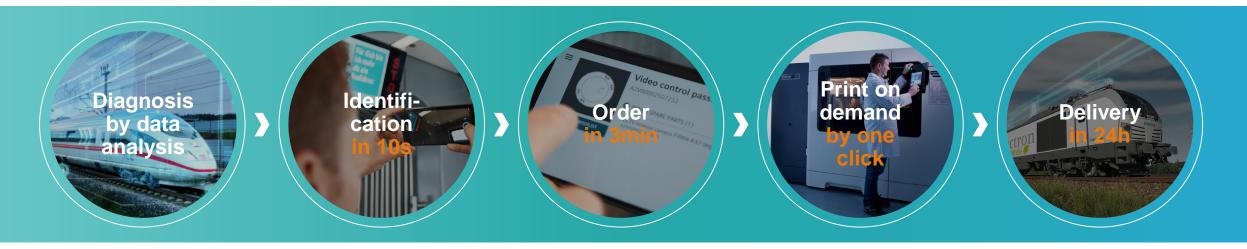
Page 9 November 2018 Siemens Mobility Services

Process optimization for a reduction of overall costs with Easy Spares Next Generation®

SIEMENS
Ingenuity for life

Seamless digital chain in material supply...

Vision is now reality!



... enabled by combining our service products

Easy Spares IDea®

Only take a photo for identification

Easy Spares®

All meaningful parts on stock

Easy Spares® Marketplace

powered by Rail Mall

Integration of complete sub-supplier catalogues in our marketplace

Easy Sparovation Part®

Optimized spare parts for a longer lifecycle

Page 10 Siemens Mobility Services

Easy Spares IDea® – Automatic, fast and reliable spare part identification



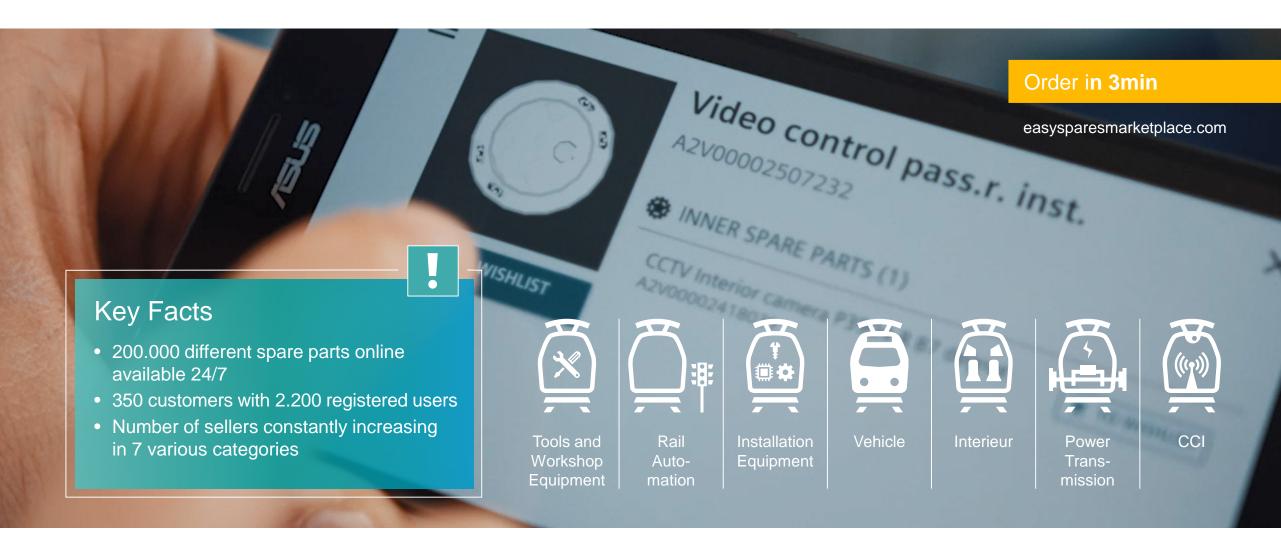


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Easy Spares® Marketplace – powered by Rail Mall First marketplace in rail industry





Page 12 Siemens Mobility Services

Additive Manufacturing expertise combined with engineering & domain know-how for optimized spare parts for a longer lifecycle



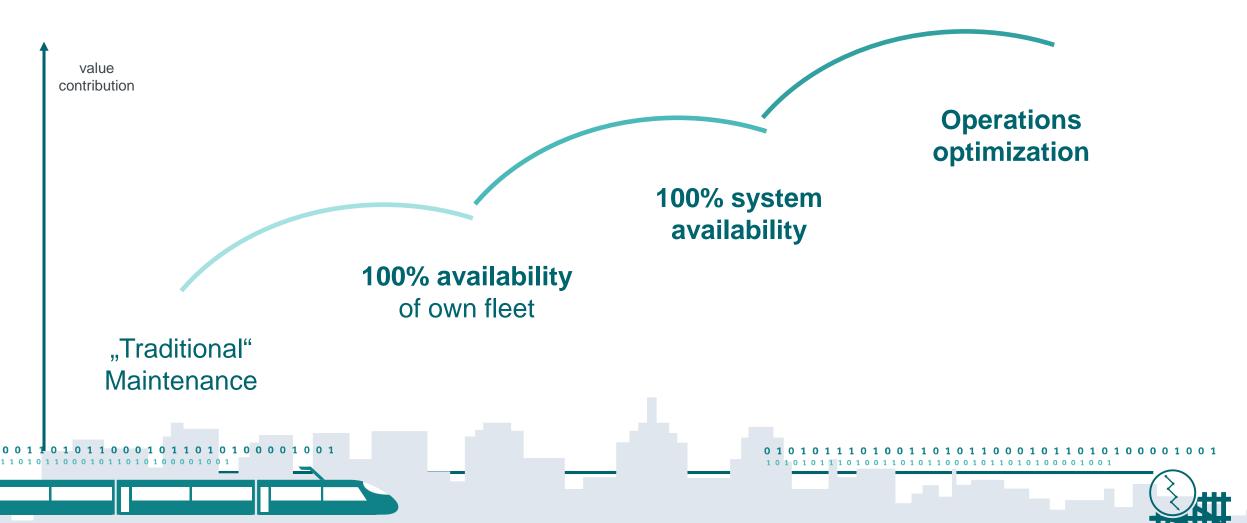


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Today we guarantee asset availability – tomorrow we expand to operations optimization!





Page 14

Asset Mgt. Platform Rail Singapore

To increase availability and optimize lifecycle costs for metros



Thank you very much!





Johannes Emmelheinz

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