Siemens Mobility Italy

SMO SWE RC-IT CS – Maintenance service for locomotives

Unrestricted | © Siemens Mobility Srl 2021 | May 2021 | Giuseppe Cavalleri



Railcover®

Modular services for locomotives

Unrestricted | © Siemens Mobility Srl 2021 | May 2021 | Giuseppe Cavalleri



Join the community and profit from a larger fleet! Full service: Railcover®

Maintenance & Technical support

Railcover®	Scope and approach	Your benefits	What's more?
Railcover [®] is the modula for locomotives from Siemens M No matter, if you are an operate or a financing institute, we have you! Our scope ranges from Full-Se maintenance and perfectly elements, to gain synergies out Mobility fleet, with local expertis close to your daily operational ne We work in compliance to the I of Maintenance (ECM) regulation	obility. or, a leasing company the right solution for rvice to case-by-case combines central of the entire Siemens se, in order to be very eeds. atest Entity in Charge	Thanks to our wide workshop network and mobile teams, no long and expensive transfer of the locomotive is necessary and the locomotive can be maintained at the next workshop, making best use of operational downtimes. Just-in-time deliveries of spare parts together with 24/7 technical helpdesk contribute to shorten repair times and ensure highest availability at a fair price. The Railcover® modular concept can be tailored to your specific case, so that even in the course of a contract the maintenance model can be adapted to your actual needs, supporting your operation and ensuring you flexibility, even in volatile markets.	<image/> <text></text>

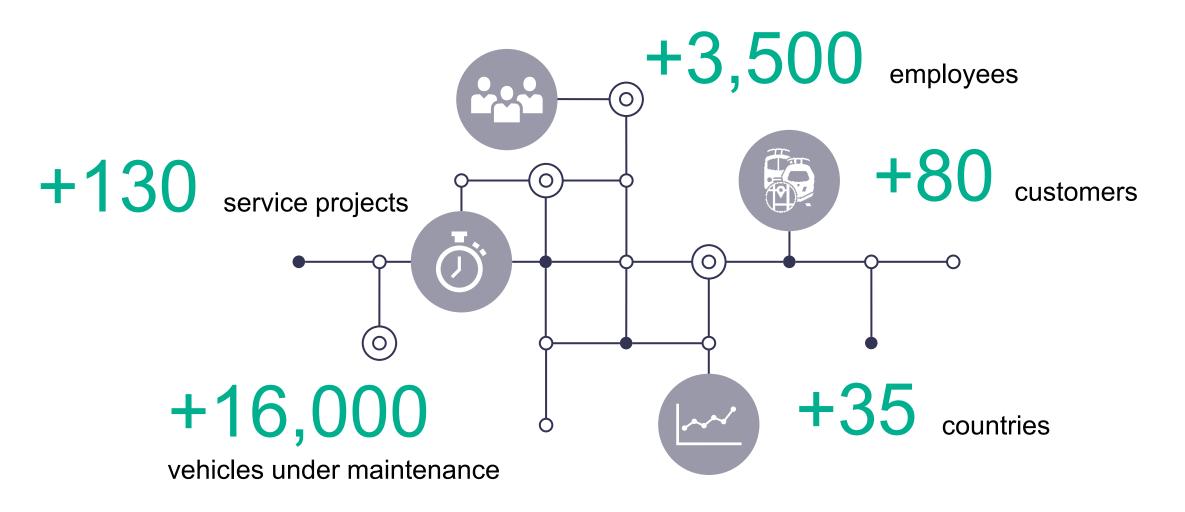
Page 3 Unrestricted | © Siemens Mobility Srl 2021 | May 2021 | Giuseppe Cavalleri

Railcover®

Modular services for locomotives

24/7

Siemens Mobility Services in a nutshell Strong global service footprint



Different customers with different needs We tailor our solutions to your specific case



"I need somebody to take over the Entity in Charge of Maintenance (ECM) role as I want to focus just on **my core business.**"



"I have my own maintenance organization, but I want to benefit from **manufacturer's know-how** to increase fleet availability."



"I don't have a warehouse, but I need **spare parts as fast as possible** to repair my locomotive."



A wide service portfolio, suited for any customer

We tailor our Railcover® solutions to your specific case

SIEMENS SIEMENS	Contract Type	Main Highlights		
	Full Service	 Configurable scope of supply ECM responsibility Performance Guarantee Price per km 		
	Technical Support & Spare part Supply Agreement	 Solution to be integrated in the customer ECM organization Clear contractual split of responsibility Performance Guarantee within Siemens' scope Pricing model depending on customized scope split 		
	Frame Agreement	 Fully customized scope of supply Individual pricelist and customized terms and conditions Periodic fee necessary Performance guarantees limited to individual support services 		
	On Demand	 Single request or annual price list Pay per use Standard Siemens terms and conditions No performance guarantees 		

Performance Guarantee from Siemens

Railcover[®] Modular approach for service across national borders



Wide European workshop network



Locomotive specialists in eleven countries ready for interventions on site



Spare parts delivered within 24 hours from our **central warehouse** possible



Helpdesk available 24/7 in different languages



Locomotive data can be visualized remotely using Railigent[®]



International and experienced ECM organization and Asset Management



Wide European Network Best use of operational downtimes

World Distribution Center

Network of Workshops

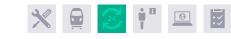
- 80+ workshops in 16 countries, thereof 50 ECM-approved
- Major hubs of the TEN-T corridors covered
- Network in continuous expansion along new Vectron homologated countries
- 20+ mobile teams with Siemens specialists across Europe







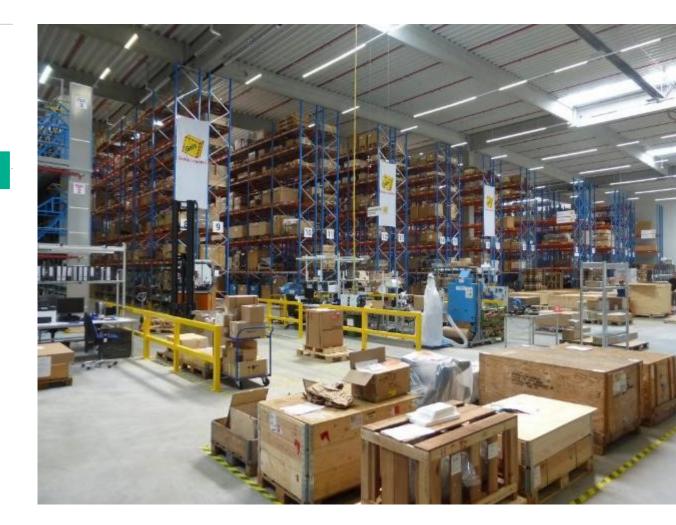
High speed logistics & central warehouse



Within full service we take care of the complete spare part chain for you

We take care of spare parts on your behalf, ensuring that the right part arrives on time at the right place. Thereby you can reduce your assets.

- Central warehouse located close to **Frankfurt** airport for late cut-off times for air freight
- All maintenance-relevant spare parts on stock (currently 4,950 different article-types for Vectron)
- **Delivery on the next working day** within Europe as standard
- Local satellite storages to further decrease the delivery times in selected regions





MoBase – Online spares marketplace Within full service we take care of the complete spare part chain for you

More than 400,000

units for locomotive

3 min

online ordering time Around the clock From anywhere

EU-wide 24 delivery time

MoBase		Search () Catagories :	i≣ ^{My occount} A Cert
Pantograph SA AC1 k			,- Euro
	Englisherer"	Article Condition	Servico Lovel ()
		🛞 New	Foszett possible
	200 200	- 1 +	Add to cart
		Sales with Planetal	Add to wishint
	11-12	Expected deberry data	
Pantograph SAAC 1 b, width of collector head a.d.D, speed 200 km/h, max steady current 700		1Deca(d): March 34, 2021 (hvaliable from stock)
supporting insulator	and the the medicing none, wheneve	Sold by:	SIEMEN
Technical Specifications			
Departmenter	Details		
Additional material number	8WL0189-6YH84-2		
Weight	705 kg		
Quality Management Control Key	Ett		

Cert Cert

SIEMENS

Characteristics	Details	
Additional material number	8WL0189-6YH84-2	
Weight	705 kg	
Quality Management Control Key	E31	
Import Code Number	85359000	
Country of Origin	AT	
Export Control Close (AL)	N	
Export Control Class (ECCN)	N	
Material Classification	Adhesive part A1 nach DIN 6701 / Welded part CL1 DIN EN 15085	
Platforma	Vectron	

- Search option by article numbers or keywords \checkmark
- Part numbers easy identifiable via wide picture library \checkmark
- Access available on request for any customer \checkmark

All strings come together in our Support Centers Any time available to support your daily business

We make sure that your locomotives are always **up and running** by optimal maintenance planning

- Up to **24/7 phone availability** to restore regular operations from locomotive experts and engineers
- ECM III role within Full Service
- Remote troubleshooting and predictive maintenance supported by Railigent[®]
- Spare part and tool management
- Various languages available
- Best use of operational downtimes for maintenance

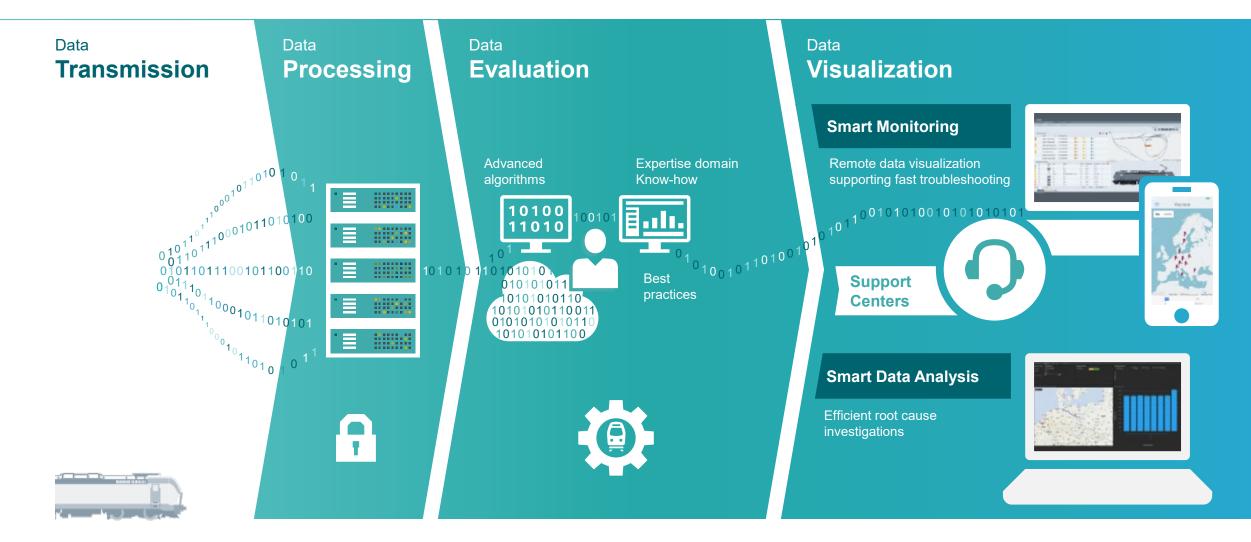






Railigent[®] - digital support for increased availability





Siemens Mobility as Entity in Charge of Maintenance (ECM) A trusted partner to ensure the safe operations of your fleet

As ECM we offer a comprehensive package including all four functions and **increasing operational availability**

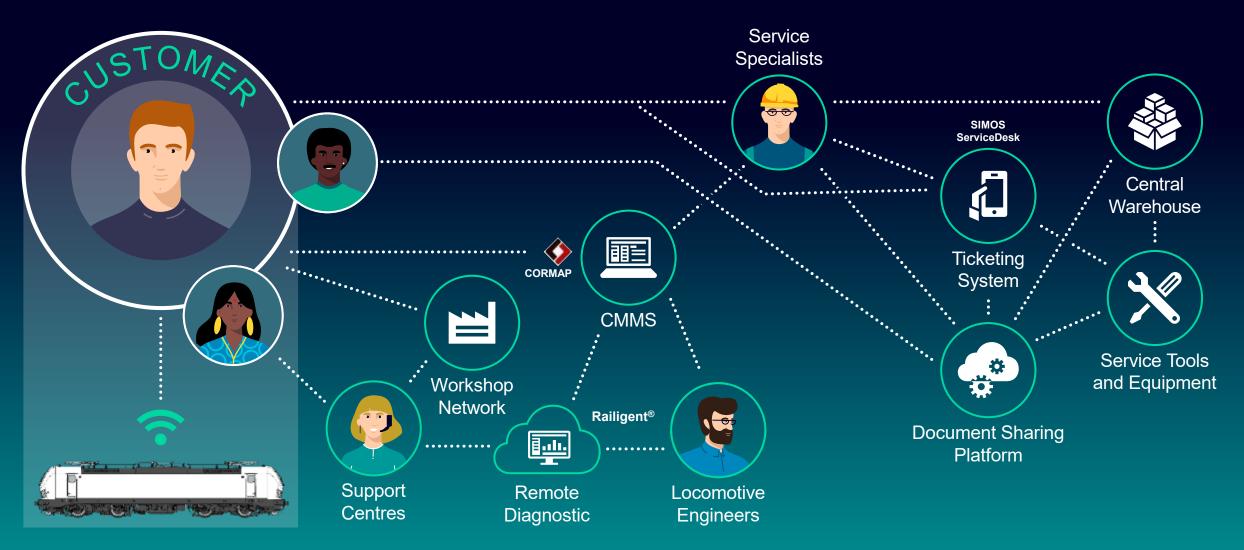
- Certified in five countries according to EU 2019/779
- Certification on-going for other countries
- Compliance with national regulations
- Extension of maintenance intervals
- Development of Condition Based Maintenance models
- Long experience in the ECM-role since 2014
- Europewide Siemens' ECM community in place to share best practices







An integrated service organization with customer in focus for best-in-class availability A robust digital landscape supports maintenance operations



We generate value-add for you

No matter which service scope and contract type you choose

Reduce costs



Increase availability



Gain flexibility



Short transfer times ...

to maintenance, thanks to extensive workshop network

Avoid unexpected standstills ... and the related costs caused by malfunctions

Best use of your existing organization ...

by supplementing it with our service elements and know-how

Pay per use ...

thanks to price per km or operating hour¹

Spare part delivery in 24 h ... from our central warehouse within EU

Short repair times ...

thanks to our wide European network of mobile teams and maintenance workshops

24/7 expert helpdesk ...

to support locomotive drivers anytime

Optimal use of operational downtimes ... for maintenance activities Modular service concept ... tailored to your specific needs

Extendible operational area ...

anytime, thanks to our pan-European service concept

Tailored maintenance plan ... fitting to your specific operational profile¹

Focus on your core business ...

by benefitting from our vast experience as Entity in Charge of Maintenance

1 Only available under specific contract types



Global locomotive service footprint

700+ locomotives under service

60+ service projects on-going

40+ customers

20+ countries





Pan-European Network – Support at any time Best use of planned standstill times and reduction of transport time



Development of a European network of maintenance workshops

- European main freight corridors
- World Distribution Center (WDC), near Frankfurt
- Rail Service Center for revisions and/or repairs
- Excerpt of existing partner workshops for light maintenance and repairs
- Workshop future plans for light maintenance and repairs



Rail Service Centers Our expertise at your disposal

Munich-Allach



2 service tracks for all types of preventive and corrective maintenance, revisions and accident repairs

3 voltage testing units for multi-system locomotives, additional examinations for train protection systems, adhesives and welding certification

4 service pits inside the workshop thereof 2 for daily maintenance and 2 for heavy maintenance and 1 external pit of 36 m length and 3 parking tracks

Novara



Wide workshop area of **1.200 sqm** thereof 900 sqm indoor, outdoor parking areas, storage areas of 100 sqm



Wegberg-Wildenrath (PCW)



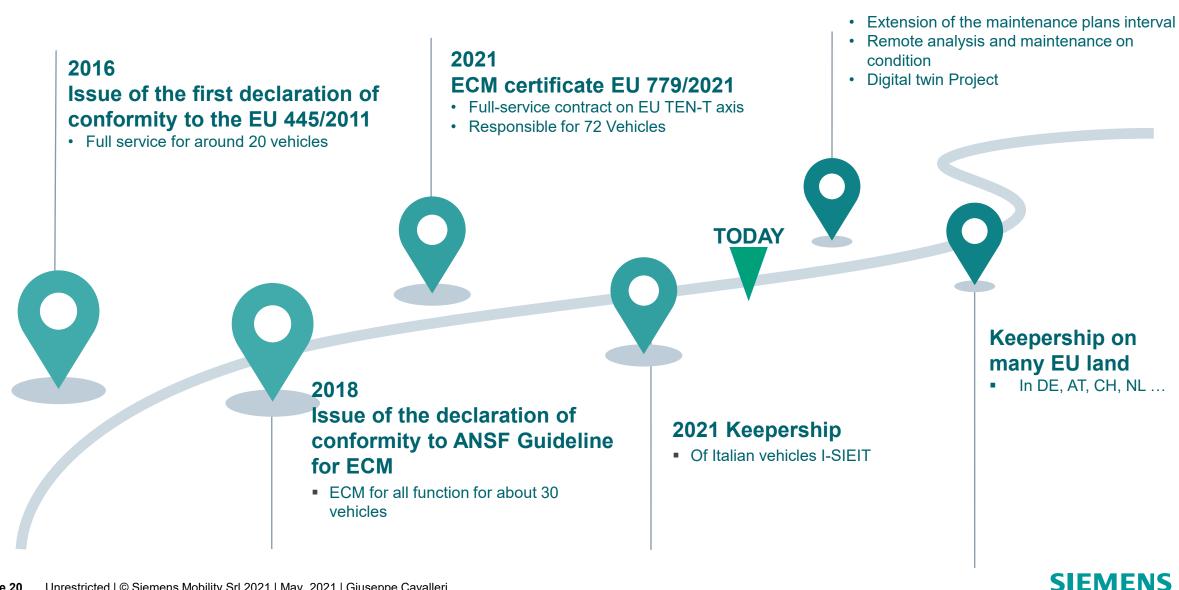
Reliable service partner for refurbishment and accident repair

44 hectares of infrastructure for the **testing**, **validation** and **certification** of rail systems worldwide





A short story of the ECM in Italy



Condition-Based Maintenance

Program

The pillars of the locomotives service

ECM, engineering and quality	Operations	Field services
The scope is to grant the safety of the vehicles for all the maintenance activities, grant the conformity of the vehicles and their configuration to the applicable standard, develop the maintenance plans and technologies to grant the safety in operations of the vehicle	Planning of the interventions Respect of the maintenance plan	The own workshops The technicians The tools and instruments (metrological system, equipment in general)
We work in compliance to the latest Entity in Charge of Maintenance (ECM) regulation EN 2019/779.	Monitoring of the availability and the performance of the fleet according the service contracts	Logistic and warehouse
Periodical safety assessment is set up with the railway undertakings whose vehicle we are ECM, to monitor common sets of KPI and the applications of the required standards and laws	Collection of the information, via the CMMS tool to support the ECM II in the development of the maintenance system and to share with the manufacture of the vehicles the returns of experience	

The Service for the locomotives Facts and figures

The ECM enrollment in our team means

- · Safety of the vehicle toward the daily service
- Development of the maintenance plans
- Monitor the upgrade of the vehicle
- Grant the conformity to the TSI standards
- Monitor the availability and reliability of the vehicles
- Monitor the obsolescence of the components
- Support the customer in the asset management
- Make preventive, corrective works and upgrades of the vehicles

Locomotive Types

- ES64X4 Vectron DC and MS
- ES64U4 E190 Taurus
- ES64F4

Customers

- Adriafer (RU)
- DB Cargo Italia (RU)
- CFI (RU)
- FUC (RU)
- Fuori Muro (RU)
- GTS Rail (RU)
- Inrail (RU)
- MRCE (RoSCo)
- Locoitalia/ Railpool (RoSCo)
- SBB Cargo International (RU)
- RU Railway Undertaking
- RoSCo Rolling Stock Company

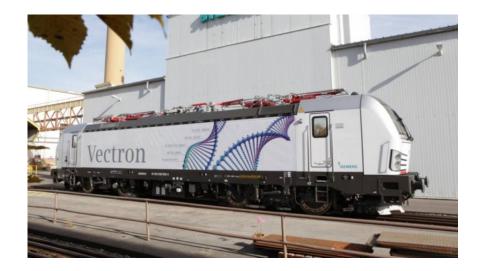
The Service for the locomotives The fleet

Locomotive Types

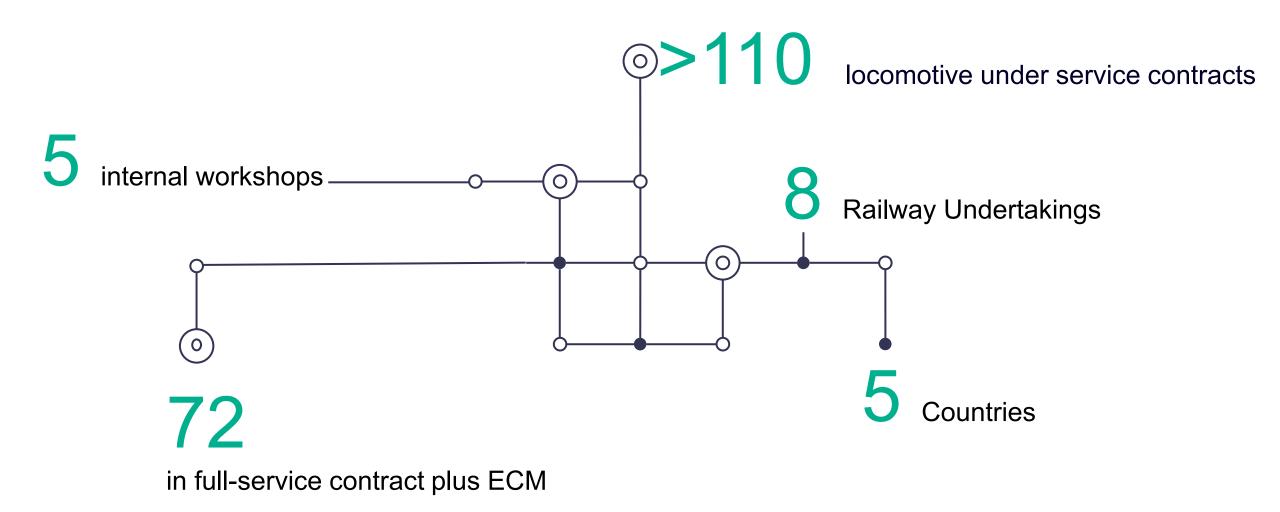
- ES64X4 Vectron DC and MS
- ES64U4 E190 Taurus
- ES64F4







Locomotive Service



SIFMENS

Page 24 Unrestricted | © Siemens Mobility Srl 2021 | May 2021 | Giuseppe Cavalleri

The corridors

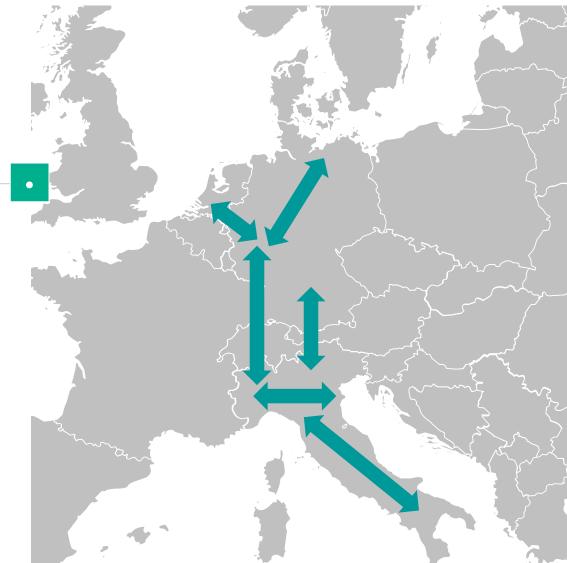
Our customers work both with national transports and in the in/out rail services

International service mainly :

 to Germany and Netherlands (Rotterdam) via the Gotthard and Simplon axis or via the Brenner pass

National service mainly :

- On the East West freight corridor (TEN-T)
- On the Adriatic and Mediterranean corridor (TEN-T)





The corridors

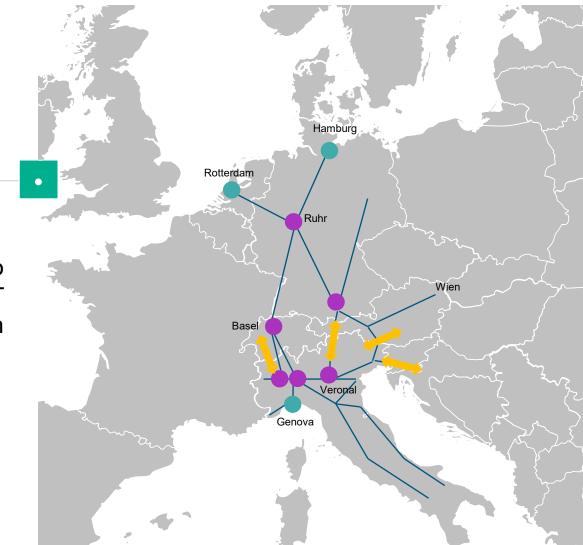
Going in detail

International services:

 Via the transit of Domodossola, Luino, Chiasso for CH, Brennero for AT and DE, Tarvisio for AT and Villa Opicina for SLO - HZ, present also in Ventimiglia Transit for FR

National service mainly :

- On the East West freight corridor (TEN-T)
- On the Adriatic and Mediterranean corridor (TEN-T) to Nola and Bari

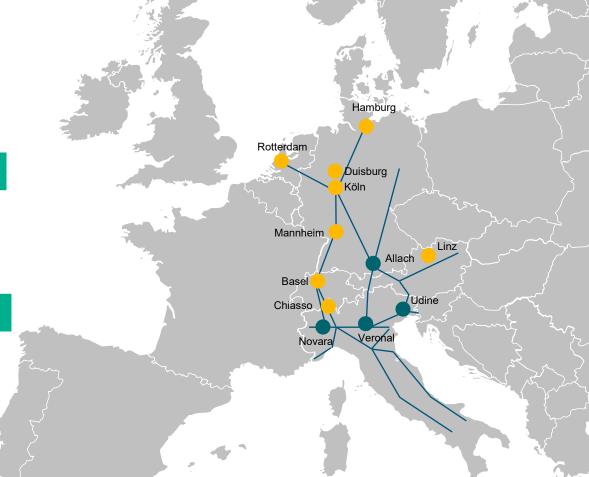




EU service network

We organize the service for the vehicles on the international routes via both a network of external service providers and together with the support of dedicated teams from the Headquarter

We project and plan the service in all the countries where operate di vehicle via our office in Milano under a unique point of contact



- • own workshop
- • external suppliers



Italian workshops network



Verona (external workshop)

Others

٠

•

Novara Improvement and development





A second building is under refurbishment, this will more than double the prior work areas 6 working pits for inspection and light maintenance will be added to the prior four. Electrical test facilities will be added.

Works are on going and the finish is scheduled within 2021

