



16/11/2018

LOHR Railway System Worldwide

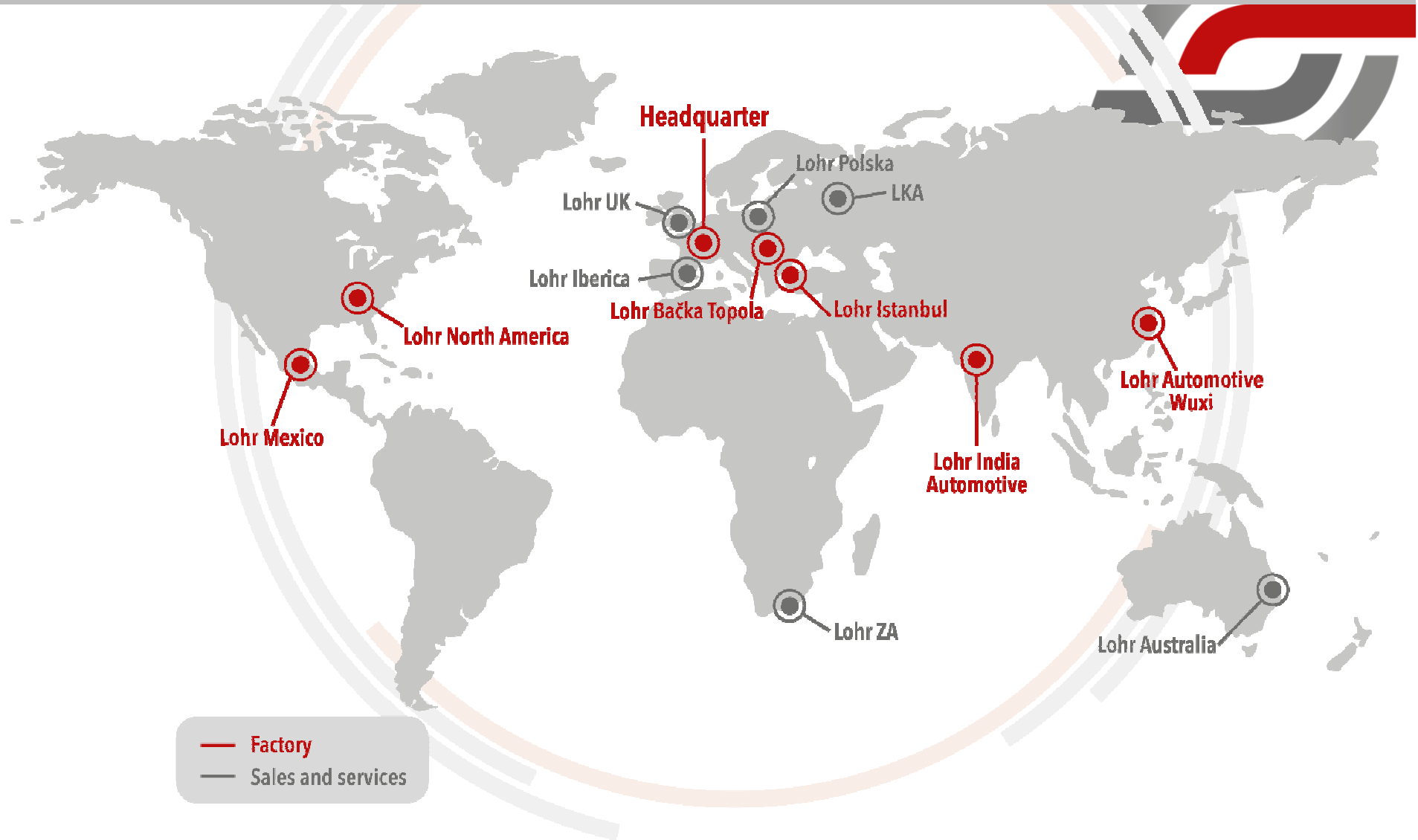
FERRMED, 21-22 November 2018, Bruxelles



Industrial site - Duppigheim

*An industrial holding constituted of
85 000 m² factories on 65 hectares ground*

LOHR around the world



A worldwide industrial network

- French private Group based in Alsace
- 2000 employees in the world
- Subsidiaries & factories on 3 continents
- R&D hub with 120 engineers and technicians



LOHR Backa Topola - Serbie



LOHR Istanbul - Turquie



LOHR Mexico - Mexique



Delavan - USA



LOHR Automotive Wuxi - China



LOHR India - Inde



Area of expertise

50 years of innovation in transport systems

Automotive



Logistics - Defence



Railway System



New mobilities



RAILWAY SYSTEM



UIC Railway motorway

Lohr Railway System for UIC

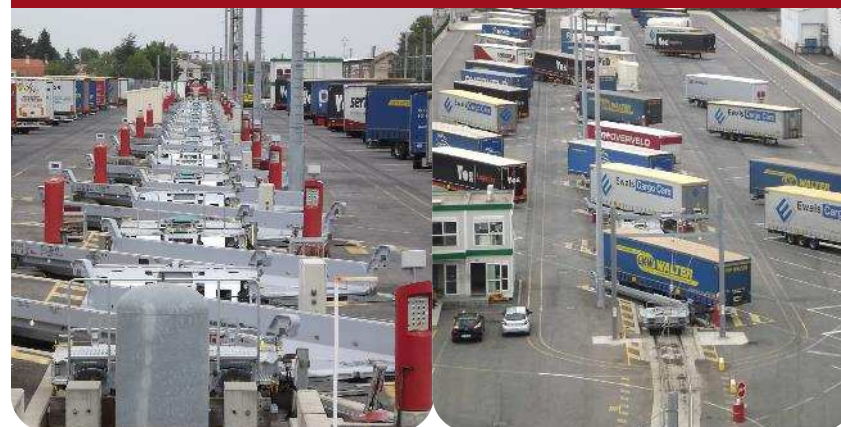
Piggyback reference technology successfully operating in France/Italy/Luxembourg since 2003

The wagon



- Articulated and low floor wagon for a quick and safe horizontal loading of standard semi-trailers
- TEN marking on Lohr UIC wagons (Trans European Network)

The terminal

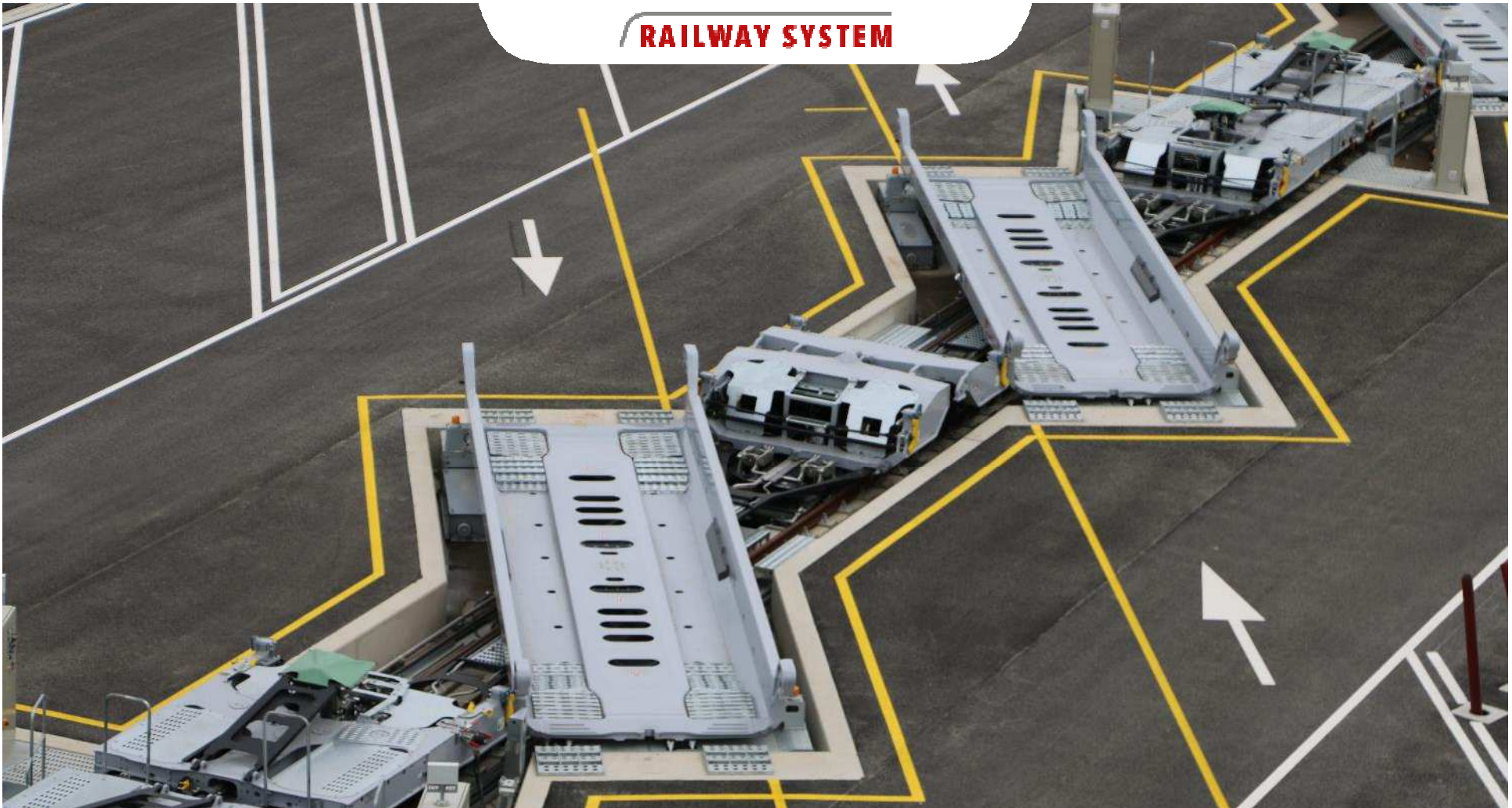


- On the terminal, the rail operator offers a range of services to the road transporters: several departures per day in each direction, trailers loading and unloading, secure parking, service station.



Horizontal transfer

Wagon for the transport of standard semi-trailers on rail



A simple wagon

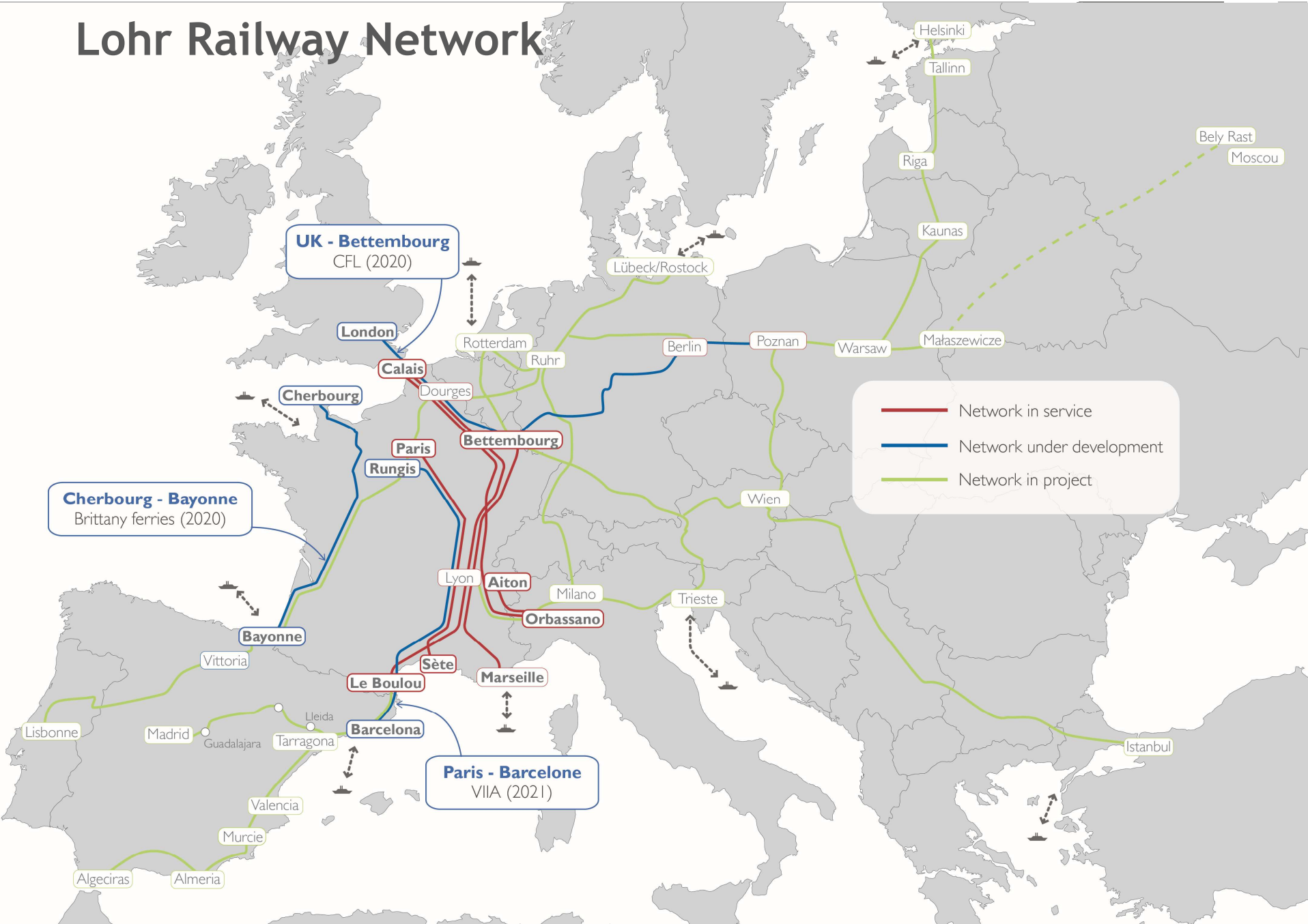
*No motor or actuator built in the wagon
Rotation of the pocket wagon made by ground system at the terminal*



Also compatible with classic Combined Transport

LOHR UIC wagon is design to be compatible with vertical loading of crenable semi-trailer in a classic Combined Transport terminal

Lohr Railway Network



Advantages of LOHR System

RAILWAY SYSTEM



The strong points of LOHR System are:

- *Horizontal loading of any standard existing semi-trailer*
- *Loading performance and ease, thanks to the loading in forward motion at an angle*
- *Simple wagons with no onboard technology, for increased reliability and lower maintenance costs (loading devices installed at the terminals)*
- *Optimization of the wagon's architecture, to carry as many semi-trailers as possible on a given train length*
- *Fast, reliable and safe centering and locking of the semi-trailer on the wagon*

In cooperation avec CRRC

Engaged development for LOHR 2W wagon

Lohr 2W Wagon is designed to transport all types of semi-trailers: crainable and not crainable thanks to horizontal safety loading.



Development of the LOHR CN Wagon

Today, there are no combined transport existing in China to transfer the classical road freight to rail. With today's problems of the pollution and climate change, and in the frame of the project « One Belt One Road », China has a very strong will to develop RailRoad services.

To answer on this demand, LOHR designed a wagon, fully adapted to rail's and road's standards in China.

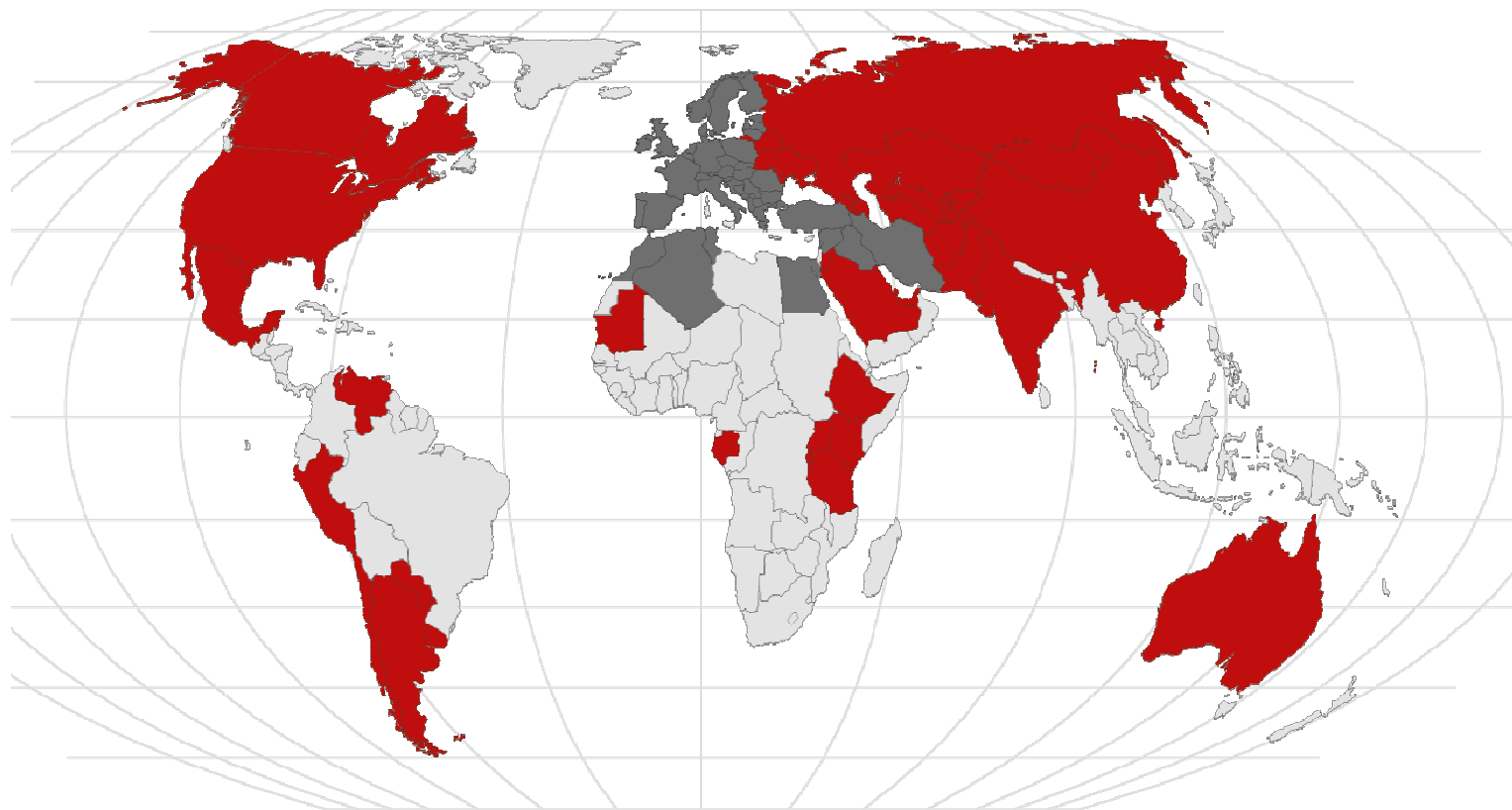


The signature of
Memorandum of Understanding
between LOHR and CRRC Yangtze
November 2017

Designed to operate on world railway networks

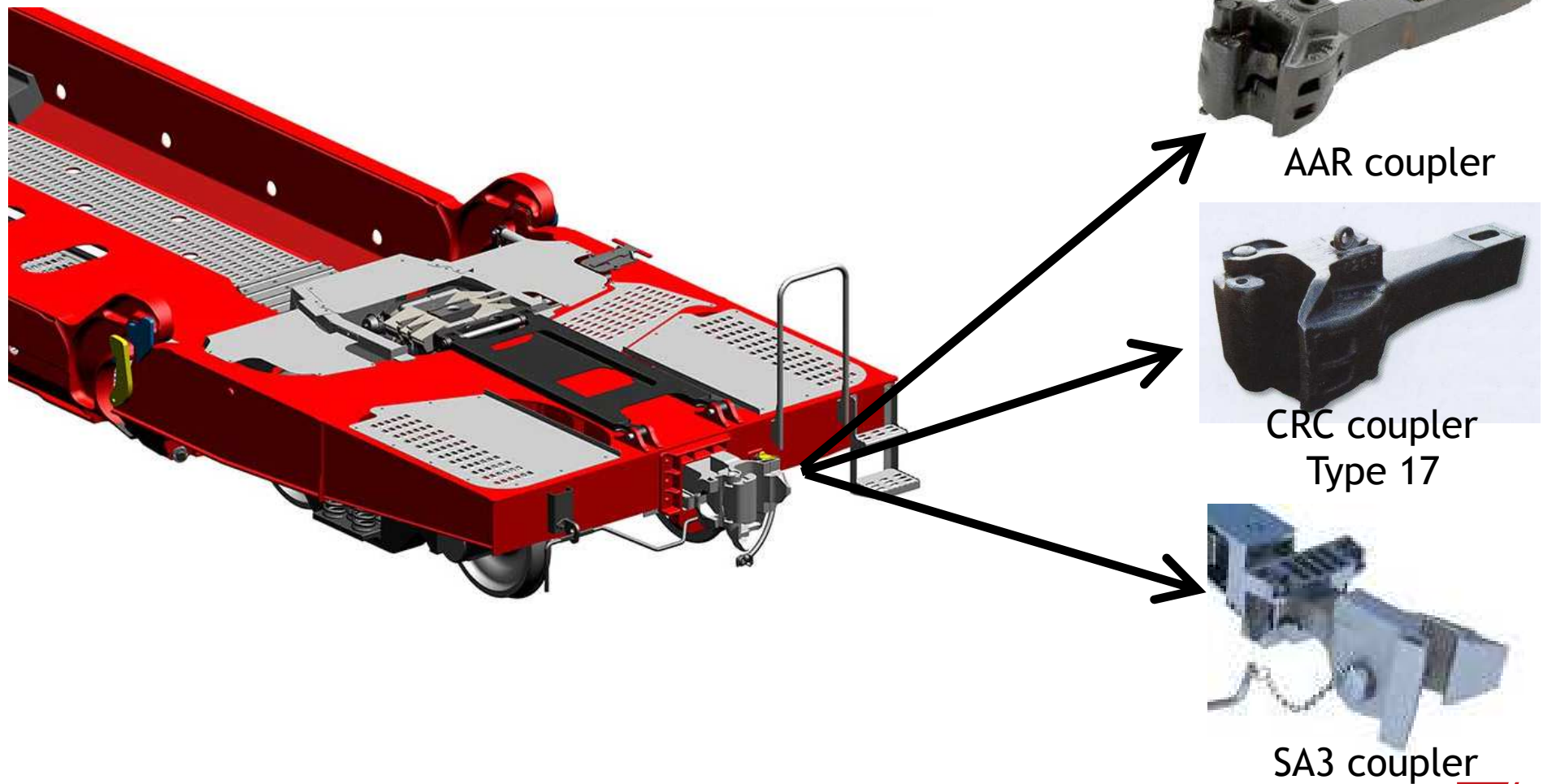
Lohr 2W wagon is designed to be compatible with the majority of railways networks around the world.

Wagon allows an overall presence on 4 continents: Asia, Africa, North and South America, Australia.



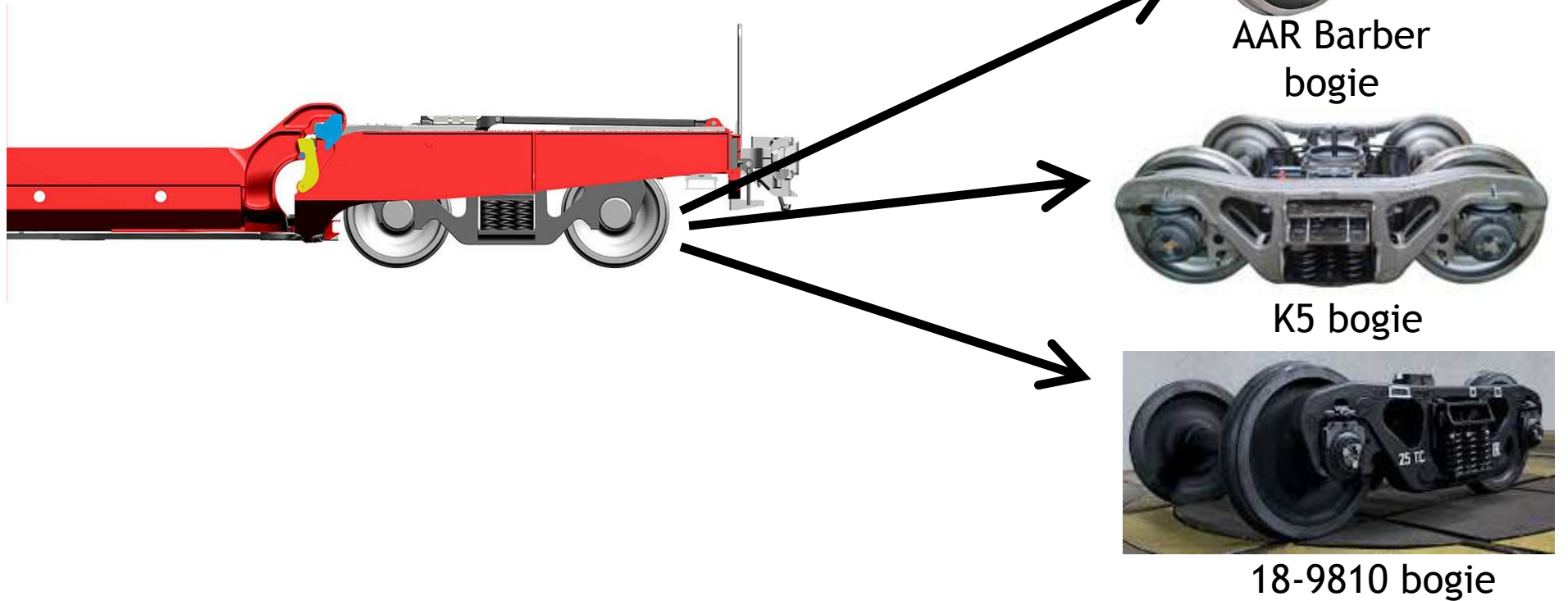
Universality of the design LOHR 2W wagon

Automatic central coupling in compliance with AAR, CRC or 1520 standards



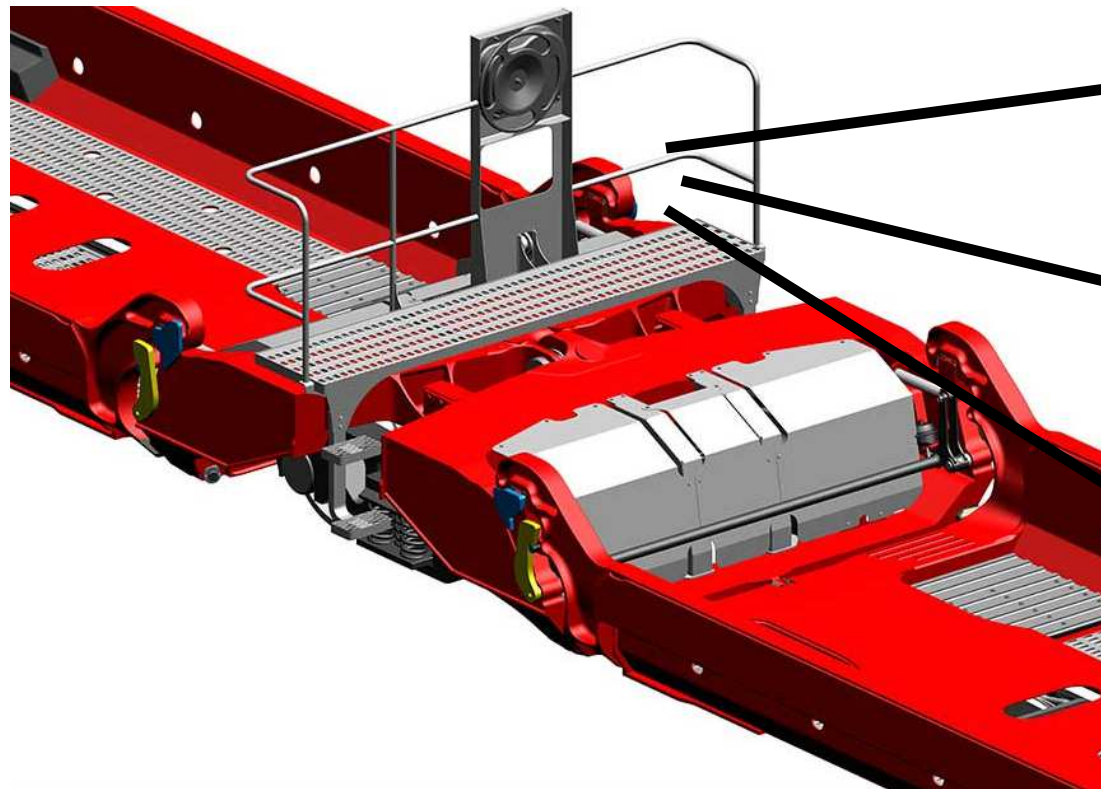
Universality of the design LOHR 2W wagon

Barber type bogies in compliance with AAR, CRC or 1520 standards
(tracks gauges 1435, 1520, 1668 or 1676 mm)



Universality of the design LOHR 2W wagon

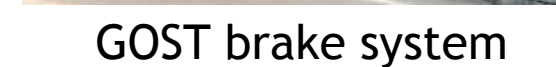
Braking system in compliance with AAR, CRC, or 1520 standards



AAR brake system



CRC brake system



GOST brake system



Thank you for your attention