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Abstract

WORLD RAIL MARKET STUDY

forecast 2022 to 2027



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WORLD **RAIL** MARKET STUDY

forecast 2022 to 2027

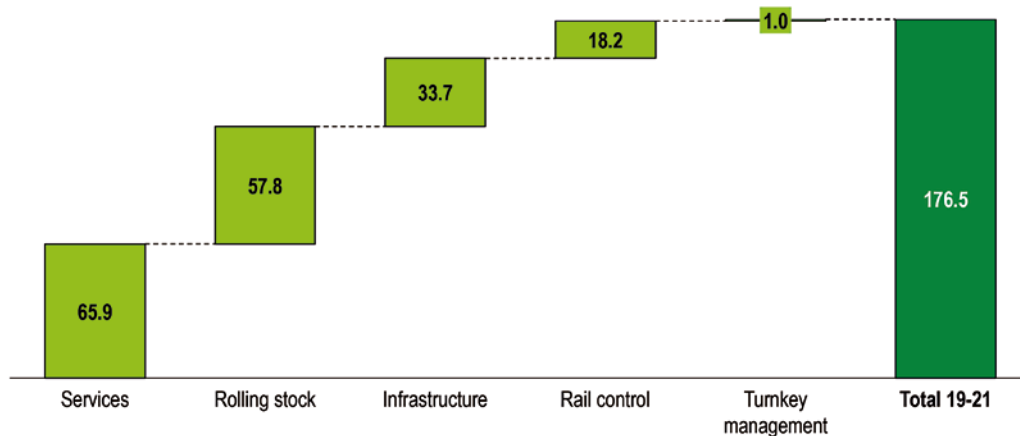
ABSTRACT OF THE STUDY

The ninth edition of the UNIFE World Rail Market Study once again provides a comprehensive view of the current status and expected development of the total and accessible global market. The study covers the market development of 65 countries, which jointly comprise 98 % of global rail traffic and are divided into seven regions. Data for countries that are not part of the focus group have been extrapolated on the basis of track kilometres, transportation units, passenger kilometres and tonne kilometres.

Slightly decreasing market development in recent years and optimistic outlook for future years

Negatively affected by the SARS-CoV-2 (also known as COVID-19), the rail supply market moderately decreased by 0.2 % p.a. between the 2017-2019 and the 2019-2021 periods and now has a volume of EUR 176.5 bn p.a.

The current annual total rail supply market volume in the years 2019–2021 amounts to EUR c. 176.5 bn p.a.



Deviation of 0.1 in the total due to rounding

Current annual market volumes by segment [EUR bn, p.a.]

In particular, Western Europe, Latin America and the Commonwealth of Independent States (CIS) have shown positive market development. Asia Pacific displayed moderate growth, while all other regions experienced a market decline.

Considerable investments in infrastructure and rail control were undertaken in Asia Pacific, for instance in China, as well as Western Europe. The rolling stock market

TOTAL MARKET 2019–2021

EUR 176.5 bn

CURRENT AVERAGE

ANNUAL TOTAL MARKET VOLUME

services
EUR 65.9 bn



infrastructure
EUR 33.7 bn



rail control
EUR 18.2 bn



turnkey management
EUR 1.0 bn



rolling stock
EUR 57.8 bn

was impacted the most by the COVID-19 crisis and decreased by 3.4 % p.a. since the 2017-2019 study. However, some rolling stock segments have increased such as metro vehicles in China and Latin America, electric multiple units (EMUs) (161-219 kph) in Western Europe as well as coaches driven by orders in NAFTA and CIS.

The study projects the future global rail supply market based on an evaluation of several thousand rail projects and verification through an array of top-down calculations. This projection forecasts a recovery of the rail supply market, and a growth of 3.0 % p.a. until 2027, when the annual volume is expected to reach approximately EUR 211 bn.

Among the key drivers for this positive market development is a growing foundation from mature rail markets, where railway undertakings and infrastructure managers consistently invest in the maintenance and extension of their infrastructure and rolling stock bases. In addition, the upgrading and modernisation of signaling systems will further drive the market in established rail regions. This development is also supported by several governmental stimulus programmes like the EU Recovery and Resilience Facility programme and the Bipartisan Infrastructure Law in the US. In addition, emerging rail markets, such as Asia Pacific, Africa/Middle East and Latin America are set to contribute to the market development through continued development of their infrastructure and rail systems.

Special features of this study

The 2022 edition of the study qualitatively analyses the environmental advantages of rail as a means of transport in comparison to other modes, as well as the digital innovations that are enabling the rail industry to flourish.

Rail – whether for mainline, urban/suburban, or freight transportation – has significant advantages compared to other modes of transport. It accounts for less than 0.4 % of GHG emissions from the whole transport sector. In this sense, it is the focus of several governmental initiatives to reduce CO₂ emissions. Consequently, a modal shift to rail is a key driver for the decarbonisation of the entire transport industry. This edition of the World Rail Market Study analyses these advantages and examines alternative propulsion systems as well as further emission reduction initiatives in the rail industry.

Besides the topic of sustainability, the industry is also being transformed by digitalisation. In the study, existing digital technologies like European Rail Traffic Management System (ERTMS), Communications-based Train Control (CBTC) and new innovative solutions, such as predictive maintenance, new Digital Automatic Coupling (DAC), 5G applications for rail, enhanced passenger information and ticketing as well as cyber security, are analysed qualitatively and evaluated in terms of their impact on the rail supply industry.

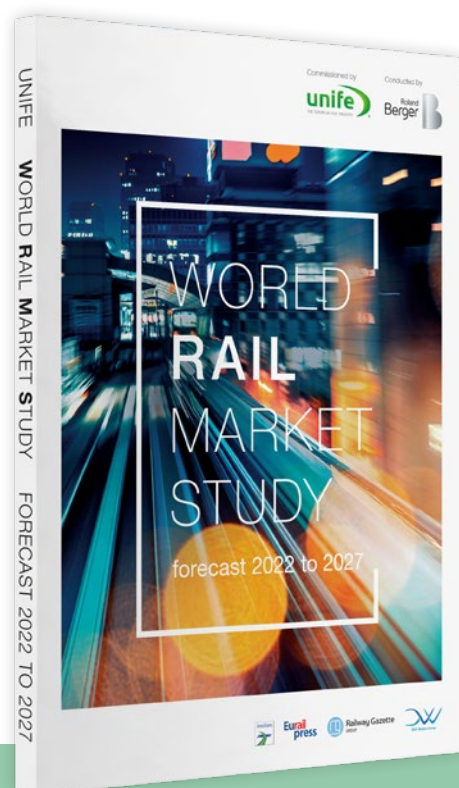
Readers of the 2022 World Rail Market Study will obtain:

- Detailed information on the installed base of infrastructure and rolling stock, the latter broken down by product groups by region (e.g., locomotives in NAFTA)
- A comprehensive assessment of the current rail supply market volume for the 2019-2021 period on a regional level for different product segments
- A detailed forecast of the expected rail supply market volumes in the years 2025-2027 per region for rolling stock, infrastructure, services and rail control segments
- A distinction of the total and accessible market for both the current and future periods, and a description of the development of accessibility across the focus countries
- An assessment of the share of turnkey projects in relation to total market volumes
- A qualitative analysis of sustainability trend as a key driver for the modal shift to rail
- A qualitative analysis of digitalisation as a key enabler for rail transport growth
- Thorough descriptions of the methodology and forecast logic, combining top-down algorithms with vast bottom-up information provided by and aligned with rail supply companies

WORLD RAIL MARKET STUDY

9th edition | forecast 2022 to 2027

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The 2022 edition of the study qualitatively analyses the environmental advantages of rail as a means of transport in comparison to other modes, as well as the digital innovations that are enabling the rail industry to flourish.

In addition, the study projects the future global rail supply market based on an evaluation of several thousand rail projects and verification through an array of top-down calculations.

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