

European High-Speed Rail Demand Forecast 2050

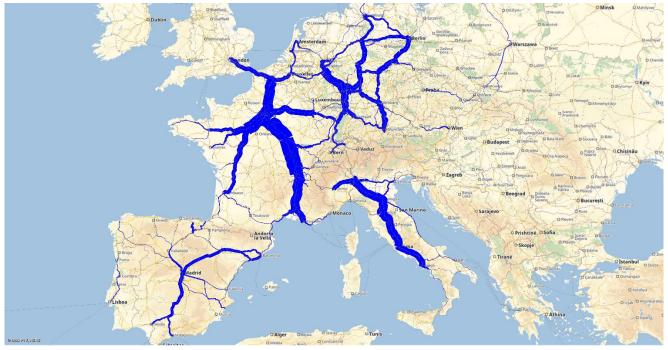


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The European Union (EU) has defined targets to increase travel demand by high-speed rail (HSR) for the horizons 2030 and 2050. These targets are part of the goals set for the EU Green Deal. In this project, Europe-wide travel demand forecasts were developed for several scenarios of HSR network extension. For this purpose, a multimodal travel simulation model was developed and applied. The German Rail Long-Distance Traffic Corporation (DB Fernverkehr AG) – in collaboration with nine other European Rail Corporations –published the results of the project with the aim to contribute to the political and technical discussion about future European transport policies.

Services Provided by MOVENTES:

- Design of the model architecture
- Development of the socio-economic database for 41
 European countries on a system of 1500 zones
- Establishment and calibration of travel demand tables for rail, coach/bus, and car in the base year (2019)
- Parameter estimation and calibration for: trip generation, natural growth, induced demand, traffic assignments road
- Quality control of the following modules: mode choice, air demand, network models, overall results
- Report, thematical maps and graphical renderings
- Final presentation at the client
- Lead-editor of the paper and presenter at the European Transport Conference (ETC)

Contracting Entity

DB Fernverkehr AG

Lead Contractor

PTV

Project Duration

2022-2023

Countries

Memberstates of the European Union

Contact

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Publications

2024 Schlaich et al. (Heureka, German)

2023 Kampp et al. (ETC, English)

2023 Deutsche Bahn (English)