

The Metrorapid in North Rhine-Westphalia New Mobility for a Conurbation

Transrapid – a Joint Project of Siemens, ThyssenKrupp and Transrapid International.



SIEMENS

With the Transportation Systems (TS) division, Siemens is one of the leading partners to the international railway industry. As single source supplier and system integrator, TS combines comprehensive know-how in its fields of competence Automation & Power, Rolling Stock, Turnkey Systems and Integrated Services – from operation control systems to traction power supplies to rolling stock for mass transit, regional and mainline services. Forward-looking service concepts and extensive experience in project management complement the portfolio. Components supplied for the Transrapid: propulsion system, power supply, operation control system, communication systems and conductor rails.

ThyssenKrupp

ThyssenKrupp has decades of experience with locomotive and wagon building and played a significant role in the successful development of the ICE. Based on the know-how acquired, ThyssenKrupp realized the necessity to overcome the technical and commercial limitations of the wheel-on-rail technology. With the proof of function of the longstator magnetic levitation technology and the leadership in the development of the system, ThyssenKrupp laid the foundation for the Transrapid system which is now being implemented. Components supplied for the Transrapid: vehicles, propulsion components and guideway equipment.



To complete the partnership for the Transrapid system, Siemens and ThyssenKrupp have established Transrapid International as a joint company for systems engineering, system integration, marketing, and maintenance support.



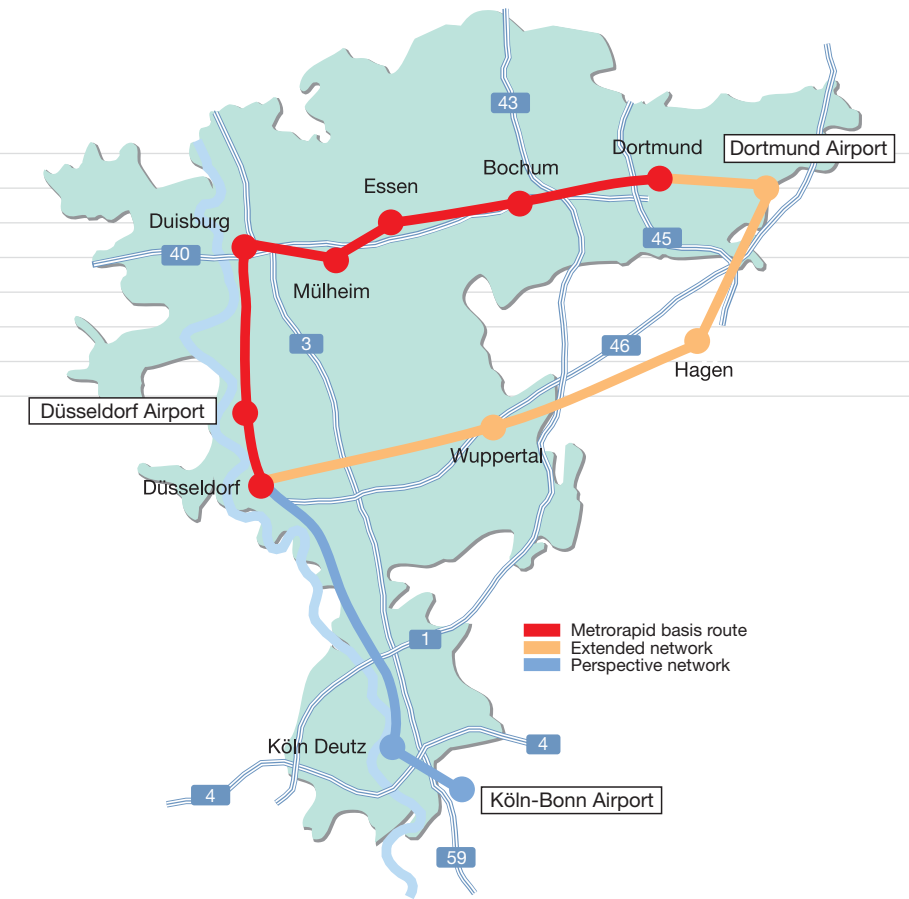
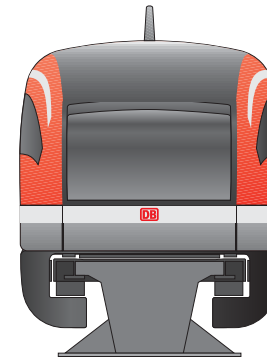
The Metrorapid in North Rhine-Westphalia

Between the Rhine and the Ruhr, in Europe's most populous conurbation, the Transrapid maglev system will bring a new quality to public transportation. The Metrorapid which mainly follows existing tracks will demonstrate innovative super-speed train technology "Made in Germany" to a worldwide public on the occasion of the World Cup Football Championship in 2006.

A Fast and Efficient Connection

The results of the feasibility study clearly show that the Metrorapid is a fast and efficient connection between Düsseldorf and Dortmund. With a route length of around 79 kilometers, the Metrorapid is an innovative, fast, and low-noise means of transportation, which will cross the Ruhr area's conurbations. Almost 95% of the route will collocate with existing railroad

facilities, thereby minimizing additional land consumption. With a maximum speed of 300 km/h (185 mph), the maglev train will take 37 minutes to cover the distance, including station stops. Running every ten minutes, the train will transport almost 37 million passengers per year.



The Düsseldorf Airport – Dortmund Airport Route

Route length	ca. 79 km / 49.0 miles
Portion collocated	ca. 95%
At-grade guideway	ca. 85%
Number of trains	14
Sections / train	4
Transport capacity per train	536
Seats	340
Ridership volume	37 million passengers/years
Speed (average speed)	up to 300 km/h / 185 mph (128 km/h / 80 mph)
Trip time	37 minutes
Train schedule	every 10 minutes



metrorapid

