

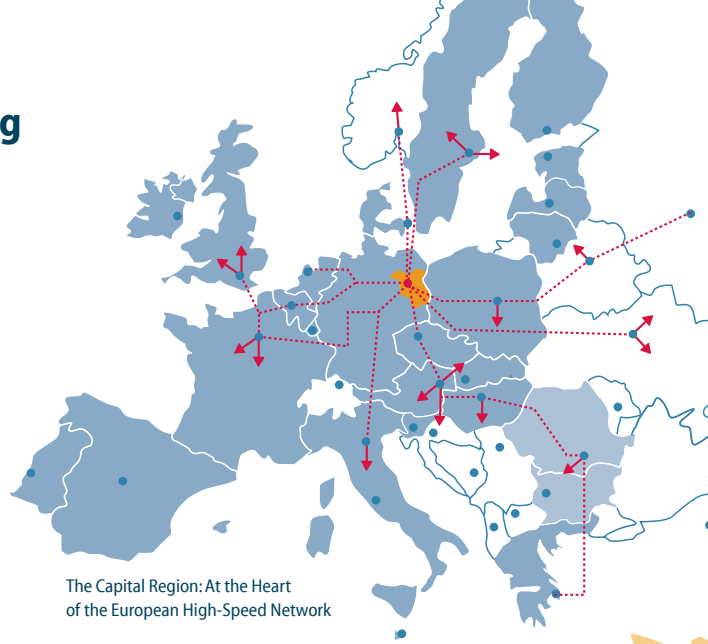
Railway Technology

in the Berlin-Brandenburg Capital Region

THE GERMAN CAPITAL REGION
MORE VALUE FOR INVESTMENT

Railway Technology in Berlin-Brandenburg

An open track for investment



At a Glance: Advantages of the Berlin-Brandenburg Region

- Leading industry players based in the region
- Important regional rail technology market
- Germany's leading location for education, science and research
- Germany's political decision-making center located in Berlin
- Availability of qualified specialists, low labor costs, flexible work hours
- Home of "Innotrans," the industry's leading international fair
- Excellent infrastructure

Easy Access to Markets and Decision-makers

- Bombardier Transportation has its world headquarters in Berlin, and Berlin-Brandenburg has over 18,200 employees at over 115 companies including leaders such as Siemens, Vossloh and Stadler but also many small, specialized firms.
- Major rail transportation companies such as Deutsche Bahn AG, Veolia Transport Central Europe GmbH and PE Arriva AG, as well as regional transport companies such as the Berlin Transportation Authority (BVG), have their offices in the region, which represents Europe's largest rapid transit network.
- All major European growth markets are quickly and easily accessible from Germany's capital region.
- Related technologies from other sectors such as the aerospace industry are increasingly being put to use in railway technology. The Berlin-Brandenburg region is also a major center of aerospace expertise with 68 industry-related companies and research institutes.

A Modern Tradition

In the 19th century, industrialists and inventors such as August Borsig and Werner von Siemens worked in Berlin to pave the way for the emergence and ascendancy of railway transportation and technology. In fact, Berlin was the birthplace of the first electrical railway. Today, Berlin-Brandenburg continues to be a region marked by innovation – for example in its capacity as a center for railway telematics expertise. Work is currently underway on the new European Train Control System (ETCS), the future standard for train control systems in Europe. The system was put to regular use for the first time on the 180 km Berlin–Leipzig line. The standard is now set to replace 22 different control and security systems in Europe.



1 Locomotive driver's cab made by SGW Werder



2 Modern maintenance vehicle built in Kirchmöser



3 Siemens-built S-Bahn transit operating center in Berlin

Know-how in Berlin-Brandenburg

Impressive facts for an impressive location

The Capital Region: Number 1 in Research and Development

With over 182,000 students at 7 universities and 21 technical colleges, and along with more than 100 private and public foundations and research institutes, the Berlin-Brandenburg region boasts one of the most concentrated research networks in Europe. The "Transportation and Mobility Network" of the Transport Technology Systems Network (FAV) helps to bring business together with research institutes. This facilitates the participation of major decision-makers from the economic and scientific fields in European projects whose goals are to further develop the railway technology of the future.

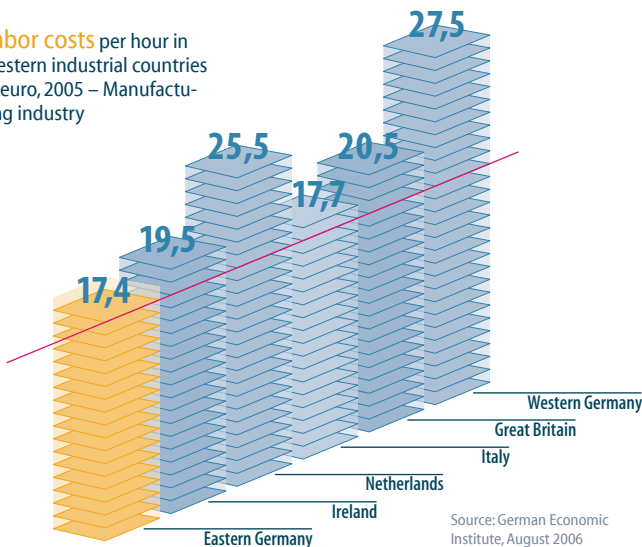


1 TU-Berlin students perform a noise test

Where High-quality Services Cost Less

The German capital region is a cost-effective location in comparison to other German regions as well as to its neighbors in Central and Eastern Europe. Two of the most decisive factors that help companies decide to settle in the Berlin-Brandenburg economic region are low labor costs and longer and flexible work hours.

Labor costs per hour in Western industrial countries in euro, 2005 – Manufacturing industry



2 The world's leading manufacturer of brake discs for railway transport: Knorr Bremse in Berlin-Marzahn

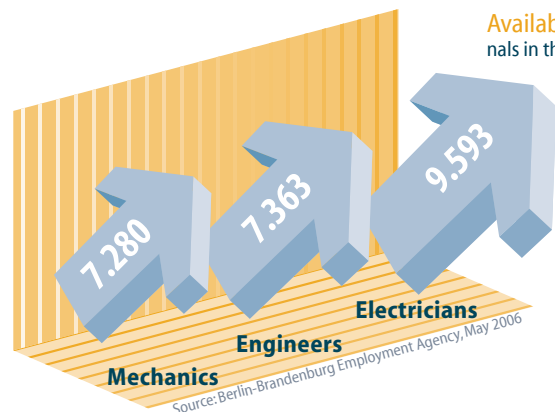


3 Switches for high-speed rail traffic made in Brandenburg for customer throughout the world

Qualified and Highly Motivated Specialists

Highly qualified and committed employees are readily available in all professions and trades. The region's outstanding reputation as a top location for science and research continues to attract specialists from all over the world, even though the region already boasts a significant potential of well-trained employees. The comprehensive service packages provided by Berlin Partner and ZAB Brandenburg Economic Development Board help to support companies in their recruitment and training of new employees.

Availability of professionals in the region.



The Network for Your Success

A SELECTION OF LEADING COMPANIES IN THE FIELD OF RAILWAY TRANSPORT TECHNOLOGY IN BERLIN-BRANDENBURG.

1 Alcatel

Alcatel offers integrated telecoms networks, as well as routing, control and network management for railway and mass transit operators. www.alcatel.de/transport

2 BASF Schwarzheide

Development and production of waterborne basecoats and polyurethane (PUR) systems for the railway transportation industry. www.basf-schwarzheide.de

3 Bombardier Transportation

The world leader in railway technology manages an international workforce of 28,600 – 8,600 of whom work in Germany – and 6.65 billion dollars in sales (2005) from its headquarters in Berlin. Employees at Bombardier's Mainline & Metros division in Hennigsdorf are responsible for the assembly of U-Bahn and S-Bahn vehicles, among many other activities. www.transportation.bombardier.com

4 BWG

The BWG Group, which belongs to the Austrian company Voestalpine, has a workforce of 480 in Kirchmöser and manufactures switches for high-speed and mass transit lines all around the world. www.bwg.cc, www.voestalpine.com

5 Berlin Transport Authority (BVG)

145 kilometers of U-Bahn lines, 298 kilometers of tram lines and a 1,662 kilometer-long network of buses; 1,288 U-Bahn wagons, 600 tram cars, 1,328 buses – the Berlin Transport Authority is one of Europe's largest public transportation service providers. www.bvg.de

6 Confecta

Within just a few years, Confecta has evolved from a supplier of simple cables to a provider of complex systems solutions – from the original idea to planning and delivery to its international customers in the transport/railway and industrial markets. www.confecta.de

7 Deutsche Bahn

Berlin is the headquarters of Europe's largest railway transportation company and the world's second largest transport and logistics company. DB has a workforce of 28,000 in several different locations in Berlin-Brandenburg, including the maintenance works in Cottbus, Eberswalde and Wittenberge, DB Systems Engineering and Bahn Environment Centre in Brandenburg-Kirchmöser and S-Bahn Berlin. www.db.de

8 Elpro Traffic Engineering

Elpro specializes in system integration and combines its own products with efficient components of leading manufacturers to achieve convincing complete solutions. www.elpro.de

9 GBM Track Engineering

GBM Track Engineering Brandenburg/H. boasts decades of experience and unrivalled expertise in the construction of maintenance and installation vehicles for railways as well as in the modernization of streetcars. GBM is a subsidiary of Spezialtechnik Dresden, a German affiliate of General Atomics in San Diego, USA. www.gleisbaumechnik.de

10 Hennigsdorfer Stahl Engineering (HSE)

HSE supplies mainly add-on components, assembly units and final assembly modules for transportation engineering. From the initial production all the way to completion and delivery – at HSE, each order is in good hands from start to finish. www.hsegbmh.de

11 Knorr-Bremse

Knorr-Bremse got its start in 1905 and has been a Berlin institution ever since. Today, the company's headquarters in the German capital employ over 480 people. Knorr-Bremse is an international leader in the production of brake systems for railway vehicles. Its other fields of expertise include on-board systems for railway vehicles and torsional vibration dampers. www.knorr-bremse.de

12 PE Arriva

PE Arriva AG is a subsidiary of the British company Arriva plc. It combines the following railway transport companies: Prignitzer Eisenbahn in Putlitz, Ostdeutsche Eisenbahn in Parchim, Prignitzer Lokomotiv & Waggonbau in Prignitz, Bahnwerk in Neustrelitz and Ostdeutsche Instandhaltungs in Eberswalde. PE Arriva AG contributes to public transport in Berlin, Brandenburg, Mecklenburg-Vorpommern and North Rhine-Westphalia and is involved in cargo transport with PE Cargo GmbH. www.pe-arriva.de

13 Siemens Transportation Systems

Siemens boasts a workforce of 1300 in Berlin in the fields of rail automation and turnkey systems. The Berlin production center develops and produces high-tech solutions for signal and switch systems. www.transportation.siemens.com

14 SGW Werder

Major railway industry supplier: driver panels, command panels, electrical assemblies, battery boxes, air filters for heating and air conditioning. www.sgw-werder.de

15 Spitzke

A major operator in mainline, urban and underground and tramway railway segments. The company's service center for track-laying machines, locomotives and equipment is Schienenfahrzeugbau Großbeeren. www.spitzke.de

16 Stadler Pankow

The Swiss Stadler Rail Group manufactures diesel vehicles and trams in the Berlin district of Pankow. Rail vehicles are put into operation and older vehicles modernized at their service center in Velten. www.stadlerail.com

17 Transrapid International

A cooperative venture between Siemens and ThyssenKrupp. Their magnetic-levitation (maglev) train is now ready for large-scale production. The first Transrapid route has already started in Shanghai and further routes are in the works. www.transrapid.de

18 TransTec Maschinenbau

Specialists in railway vehicles and steel construction: bogies, subassemblies and welded components for the railway vehicle industry. www.transtec-maschinenbau.de

19 Veolia Transport Central Europe

Veolia Verkehr, Berlin (formerly known as Connex Verkehr) is the leading private transport operator in Germany. Its parent company, Veolia Transport Central Europe GmbH, has offices in Berlin. The German Veolia Verkehr Group has a workforce of 3,600 and holdings in 35 railway transport companies. www.connex-gruppe.de

A SELECTION OF INDUSTRY-RELATED RESEARCH INSTITUTES IN BERLIN-BRANDENBURG.

1 BTU Brandenburg Technical University in Cottbus

Faculty of Mechanical Engineering, Electrical Engineering and Industrial Engineering; Institute for Traffic Engineering; Panta Rhei gGmbH Research Center for Lightweight Construction Materials. www.tu-cottbus.de

2 University of Applied Sciences in Brandenburg upon Havel

Department of Engineering, Business School, Department of Informatics and Media. www.fh-brandenburg.de

3 Lausitz University of Applied Sciences

Mechanical Engineering, Electrical Engineering, Computer Science. www.fh-lausitz.de

4 Fraunhofer Society

Joint research project "Innovations for Railway Siding Traffic" Fraunhofer Institute for Material Flow and Logistics (IML), Cottbus. www.impl.fraunhofer.de

5 IFB Institute of Railway Technology

Automation of railway systems, integrated solutions for long-distance transport, regional and local traffic, systems for dynamic passenger information and operation. www.bahntechnik.de

6 Interdisciplinary Research Association Railway Engineering (IFV)

Passenger security, optimization of railway operators' working processes, railway vehicle noise reduction, vehicles and components. www.ifv-bahntechnik.de

7 University of Applied Sciences in Wildau

Mechanical Engineering, Industrial Engineering, Telematics, Logistics. www.tfh-wildau.de

8 Technical University Berlin (TU)

Institute of Land and Sea Transport Systems (ILS). www.verkehr.tu-berlin.de
Institute of Track and Railway Operations. www.railways.tu-berlin.de

Transport Technology Systems Network (FAV) Berlin

The FAV network develops international projects and synergies in the Berlin-Brandenburg region. The European Rail Research Network of Excellence (EURNEX), which brings together 63 partners from 18 EU states, has transformed the capital region into a major center of railway transport research in Europe. www.fav.de, www.eurnex.net

The Advantages of Living, Working and Investing in Berlin-Brandenburg

Generous subsidies, excellent quality of life, outstanding services



1



2



3



4

- 1 Bridge over the Elbe River near Wittenberg
2 The Rheinsberg Gate in Neuruppin
3 Rail viaduct near the Monbijou Park in central Berlin
4 Hamburger Bahnhof, Museum for Contemporary Art, Berlin

Where Investment Brings Returns

As an Area 1 and Area 2 region within the European Union, Berlin-Brandenburg offers the most ideal subsidy environment in Europe. Investors also profit from national subsidies aimed at the former East German states. Capital investments are supported by up to 30 percent for large-scale companies and up to 50 percent for small and middle-size companies.

High Quality of Life

Berlin-Brandenburg boasts an outstanding and incomparable quality of life. The region combines the international flair of the Berlin metropolis with the soothing nature and historical landscapes of Brandenburg. The region invites its residents and guests alike to enjoy over 170 museums, 150 stages as well as 500 palaces, churches and recreational parks. Sport and leisure activities such as golf, horseback riding and aviation know no boundaries. The region also has an internationally renowned club scene and countless major entertainment events with a definite cosmopolitan flair.

Investment Made Easy

The business development agencies Berlin Partner GmbH and ZAB Brandenburg Economic Development Board offer comprehensive support during your company's settlement in the region: Professional, quick, with no red tape and free of charge.

- **Business:** Facts and figures on the railway technology industry and the Berlin-Brandenburg economic region
- **Personnel:** Support in recruiting and training new staff
- **Real Estate:** Assistance in locating properties and sites for sale or rent
- **Financing:** Guidance on subsidies and financing opportunities
- **Contacts:** to government agencies, banks, chambers of commerce, associations and business networks

www.businesslocationcenter.de

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