



# Rail Systems Technology

in the Capital Region Berlin-Brandenburg



Berlin-Brandenburg booth at InnoTrans 2016



Newly developed underground train for Berlin, called U-Bahn type IK, by Stadler

### OEMs

Bombardier Transportation  
Siemens, Mobility Division  
Stadler Pankow

### Vehicle engineering

AnToMe  
arxes-tolina  
BahSIG Bahn-Signalbau  
Fahrzeugwerk Brandenburg  
Fahrzeugwerke Mirastrasse  
KB PowerTech  
Knorr-Bremse  
PanTrac  
Photon Laser Manufacturing  
PROSE Berlin  
RWS Railway Service  
SGW Werder  
TransTech F&E Vetschau

### Track system | Transport facilities

GBM Gleisbaumechanik  
Spitzke  
Voestalpine BWG  
Wirthwein

### Control technology | IT

ASCI Systemhaus  
GSP Sprachtechnologie  
ime Elektrotechnik  
INTERAUTOMATION  
IVU Traffic Technologies  
Move & Traffic Controls  
PSI Transcom  
RMM RailwayMechanics-Metal  
Verkehrsautomatisierung  
Berlin

### Service providers

Deutzer Technische Kohle  
Ferchau Engineering  
ICB Ingenieur-Consult  
Verkehrstechnik  
IGES Institut  
Institut für Bahntechnik

## Leading international location

Berlin-Brandenburg is one of the leading locations for railway transport technology; over 100 businesses and scientific institutions with more than 20,000 employees make the capital region one of the most important European centers for research, development and manufacturing. This ranges from the manufacture of vehicles to track construction, through to signalling and rail-related services, all carried out by such industry giants as Siemens, Bombardier, Stadler, Knorr-Bremse, voestalpine BWG and many other small to medium-sized businesses. The industry's strong position opens up new avenues for suppliers – for example through the development of system capabilities to tier 1 or 2 – and therefore also for the additional creation of value in the region. This makes Berlin-Brandenburg even more attractive to new establishments.

Deutsche Bahn brings into focus a variety of core transport functions in the region and is present through commuter trains (S-Bahn), for instance. In addition to the largest German public transport service provider, BVG (Berliner Verkehrsbetriebe), other transport operators



**Thomas Becken**  
Chairman of the Board  
Deutsche Eisenbahn Service AG (DESAG)

»We are a regional group and our region is of great importance for us. We actively support the growth of the railway sector in Berlin and Brandenburg. For us, this means to expand the passenger transportation, to strengthen freight traffic on tracks and to offer our employees safe jobs.«

are also headquartered in Berlin or Brandenburg, such as Netinera with ODEG (Ostdeutsche Eisenbahn), Abellio, Transdev, Captrain with IGB (Industriebahn-Gesellschaft) and NEB (Niederbarnimer Eisenbahn), BEHALA (Berliner Hafen- und Lagerhausgesellschaft) and HVLE (Havelländische Eisenbahn).

With 2,955 exhibitors from 60 countries and 144,470 trade visitors (2016), the world's leading trade show, InnoTrans, in Berlin is the biggest international trade show for railway technology.

## Research and innovation

Berlin has always been a place for railway pioneers; it was here that the first electric train was put on the tracks. Even today, Berlin-Brandenburg remains a region of innovation: automation, digitization, lightweight construction, energy efficiency and noise reduction are all keywords that best describe the innovation potential of the regional economy and research. Examples of this include the key developments in the Europe-wide harmonization and standardization of train drivers' cabins (European Drivers' Desk) as well as signalling,



**Ulf Braker**  
CEO, Stadler Pankow GmbH

»Stadler responds with passion to the demands placed on the mobility of tomorrow. We find customized solutions suited to our customers' diverse needs. Whether domestically or internationally – we apply the same level of intensity and attention to detail in tackling the challenge of creating sustainable mobility. With its deep heritage in the field of rail systems technology, the capital region offers an excellent infrastructure of experienced professionals in the supplier sector.«



Study command and control technology in a hands-on program at the Railway Operation and Experimental Laboratory of TU Berlin

- An international leader in the research, development and manufacturing of rail transport technology with over 100 businesses and 20,000 employees
- A unique concentration of all significant players and performance segments – notable operators, mobility providers, vehicle manufacturers and suppliers
- Near to growing markets in Central and Eastern Europe
- Germany's leading location for rail transport technology in research, universities and vocational training
- Highly skilled specialists
- Center of political decision-making and the seat of the most important transport federations in Germany
- Central hub for the flow of traffic and goods in Europe
- The world's leading trade show, "InnoTrans"

control and train protection with the European Train Control System (ETCS). All of these contribute to the interoperability of trans-European railway systems and facilitate cross-border rail traffic. Radial-adjusting bogies for low-noise freight wagons developed at TU Berlin are a further example of Berlin-Brandenburg's innovative railway technology. The dynamic trend of digitization opens up new avenues for rail technology, with the automation of operation, the interlinking with other modes of transport and new models for maintenance and repair all profiting from it. As a center for start-ups, Berlin offers a foundation of productive cooperation between established regional businesses and dynamic tech companies.

Berlin-Brandenburg is an internationally-renowned research location, with TU Berlin, TH Brandenburg and BTU Cottbus-Senftenberg offering everything from basic research, to development assistance, through to extensive capabilities in rail vehicle technology, infrastructure and rail operation. In addition, a modern education and innovation centre as well as an industrial park for the railway industry is being created at the Bahntechnologie Campus Havelland (BTC) in Wustermark, a former major marshalling yard to the west of Berlin.



»The many interfaces in rail transport require expertise in order to follow good intentions with good results. TU Berlin delivers solutions – from basic innovation to troubleshooting – for reducing noise, boosting energy efficiency, safety issues, increasing reliability, etc.«

**Prof. Dr.-Ing. Markus Hecht**  
Chair of Rail Vehicles  
Technische Universität Berlin



»As a medium-sized family owned business based in Zeuthen near Berlin, we provide measurement services for operators of railborne transport systems worldwide with our innovative developments. This speaks for the first-class expertise in the capital region!«

**Manfred Deutzer**  
CEO  
Deutzer Technische Kohle GmbH

Corporate and scientific players contribute to key European projects whose aims are to develop the railway technology of the future, with systems companies such as Bombardier and Siemens having leading roles in Shift2Rail, the European Rail R&D Initiative.

## Good integration

As one of the growth industries in the capital region, rail systems technology is a core component of the Cluster Transport, Mobility and Logistics cluster, which connects the economy to research and provides contacts to both governments and authorities. The close and productive cooperation with other clusters in the capital region (such as the fields of IT, communications technology, energy technology and photonics) is an important factor in the performance of the regional economy. Furthermore, the cooperation of partner clusters exists in the framework of the European Railway Clusters Initiative (ERCI). The European Rail Research Network of Excellence (EURNEX) based in Berlin brings together the areas of expertise in European rail research.

KCW  
LAT  
RST Rail System Testing  
SCI Verkehr  
Witt IndustrieElektronik  
ZEDAS

### Transport operators

Abellio  
BEHALA  
BLG Rail Logistics  
BVG  
Captrain, IGB, NEB  
DESAG  
Deutsche Bahn, S-Bahn Berlin, DB Regio Nordost  
Havelländische Eisenbahn  
LOCON  
Netinera, ODEG  
PCC Intermodal  
Transdev  
VBB  
Verkehrsbetrieb Potsdam

### Research

BTU Cottbus-Senftenberg, Railway Engineering  
DLR, Institute of Vehicle Concepts  
Fraunhofer IZM  
TH Brandenburg  
– Rail Management and Marketing  
– Rail Freight/Seaport Hinterland Transport  
– Energy Efficiency  
TH Wildau, Transport Logistics  
TU Berlin  
– Track and Railway Operations  
– Rail Vehicles

### Associations | Networks

Allianz pro Schiene  
EURNEX  
IFV Bahntechnik  
MOFAIR  
Verband der Bahnindustrie in Deutschland

# Our aim: your success!

Berlin and Brandenburg support the rail systems technology focal area with an economic policy developed across state borders in the Transport, Mobility and Logistics cluster. The cluster is managed under the aegis of Berlin Partner for Business and Technology and the Brandenburg Economic Development Corporation.

Our aim is to provide comprehensive support to companies and scientific institutions interested in inward investment or further development in the capital region.

We are ready to assist you with:

- Finding a site
- Funding and financing
- Technology transfer and R&D cooperation
- Cooperating in networks
- Recruiting personnel
- Developing international markets

Reach out and contact us!

[www.mobility-bb.com](http://www.mobility-bb.com)



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The Cluster Transport, Mobility and Logistics is a partner of the European Railway Clusters Initiative (ERCI).

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