



# Rail Systems Technology

in the Capital Region Berlin-Brandenburg



Berlin-Brandenburg booth at InnoTrans 2022



BerDiBa project – test of automatic obstacle detection

#### OEMs

Alstom  
Siemens Mobility  
Stadler Deutschland  
Thales

#### Vehicle engineering

arxes engineering  
Fahrzeugwerk Brandenburg  
Fahrzeugwerke Mirastrasse  
Knorr-Bremse  
PanTrac  
Photon Laser Manufacturing  
PROSE  
RWS Railway Service  
Talgo

#### Track system | Transport facilities

GBM Gleisbaumechanik  
LAT  
Spitzke  
Voestalpine BWG  
Wirthwein

#### Control technology | ICT

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

#### Service Providers

5micron  
Deutzer Technische Kohle  
Ferchau Engineering  
ICB Ingenieur-Consult  
Verkehrstechnik  
IGES Institut  
Institut für Bahntechnik  
KCW

### Leading international location

Berlin-Brandenburg is a leader in rail systems technology: over 100 businesses and institutes with more than 20,000 employees make the capital region one of the most important European centers for research, development and manufacturing. System providers such as Alstom, Siemens, Stadler, Knorr-Bremse, Talgo, Thales and voestalpine BWG are represented as well as a diverse supplier industry, mostly small and medium-sized enterprises. The spectrum ranges from vehicle manufacturing/maintenance to track construction, signalling technology and digital solutions for the mobility of the future. 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.

Deutsche Bahn brings into focus a variety of core transport functions in the region and is present through Digitale Schiene Deutschland, DB Fahrzeuginstandhaltung in Cottbus and Wittenberge and DB Systemtechnik in Brandenburg-Kirchmöser. In addition to the



»Stadler supplies innovative solutions for railway transport of the future. We find individual ideas to meet the different needs of our customers. With great attention to detail and creative approaches, we rise to the challenge of creating sustainable mobility and interesting perspectives for our employees.

The capital region offers us a good basis as a location with a tradition in rail systems technology.«

**Jure Mikošič**  
CEO  
Stadler Deutschland GmbH



»We have been a reliable player on the German rail market since 1996. The goals of our activities are passengers who enjoy using our trains, customers who are well served by our freight services and satisfied railroad companies that operate on our routes. This enables us to offer our employees attractive and secure jobs in rural areas.«

**Dr. Ralf Böhme**  
Board Member  
Deutsche Eisenbahn Service AG (DESAG)

largest German public transport service provider, BVG (Berliner Verkehrsbetriebe), operators such as DB with S-Bahn Berlin, Netinera with ODEG (Ostdeutsche Eisenbahn), Abellio, Transdev, Captrain with IGB (Industriebahngesellschaft Berlin) and NEB (Niederbarnimer Eisenbahn), DESAG (Deutsche Eisenbahn Service AG), BEHALA (Berliner Hafen- und Lagerhausgesellschaft) and HVLE (Havelländische Eisenbahn) are present.

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: The world's first electric train was presented here. This is still true today: digitalisation, innovative drives and lightweight construction are exemplary for the innovation potential of the capital region. The dynamic trend of digitalisation 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



Study command and control technology at the Railway Operation and Experimentation Field at 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"

startups, Berlin offers the basis for productive cooperation between established regional businesses and dynamic tech companies. Innovations from Berlin-Brandenburg make a significant contribution to interoperability in European rail transport, for example through harmonisation and standardisation of the control and safety technology, the European Train Control System (ETCS). The BerDiBa digital railway operation project is laying the basis for highly automated driving. Other examples of innovative railway technology include alternative drives for rail vehicles, radially adjusting bogies for low-noise goods trains, illuminated platform edges made of fibre-optic concrete, non-specific sensor technology for detecting damage to vehicles and tracks, and driver assistance systems. Berlin-Brandenburg is an internationally renowned research location: TU Berlin, TH Brandenburg and TH Wildau have extensive expertise in vehicle technology, infrastructure, railway operation and transport logistics. In addition, a modern education and innovation centre as well as a business park for the railway industry is being built on the BahnTechnologie Campus Havelland (BTC) near the Wustermark marshalling yard west of Berlin.



»Climate change can only be tackled by transforming mobility, with rail transport at its heart. The TU Berlin is not only excellently equipped to train future transport engineers, but is also an outstanding partner for research in areas such as automation and certification.«

**Prof. Dr.-Ing. Birgit Milius**  
Chair Railway Operations and Infrastructure  
Technische Universität Berlin



»LAT is a German, second generation family owned and operated firm for mobility related services, including (cable) construction for railway tracks and passenger safety systems for public transport. The capital region gives us access to partners from science, business and politics. We particularly benefit from the networking events, where we also meet tech startups.«

**Larissa Zeichhardt**  
CEO, LAT Group

The Open Digital Test Field of the DZSF (German Centre for Rail Transport Research) between Halle (Saale), Cottbus and Niesky tests new technologies and innovations under real conditions.

The regional economy and science play a decisive role in European R&D projects for the railway system of the future and thus participate directly in innovations at European level.

### Good integration

The growth industry of rail systems technology is part of the Cluster Transport, Mobility and Logistics Berlin-Brandenburg: the cluster networks business and science, it supports contacts with state governments and authorities. Close cooperation exists with other clusters in the region, especially with ICT | Media | Creative Industries, Energy Technology and Photonics. The Railway Areas Innovation Lab (RAIL-BB) based at the BTC supports the cluster in promoting science and research. Through cooperation with the European Railway Clusters Initiative (ERCI), the European Rail Research Network of Excellence (EURNEX), which bundles European railway research expertise from Berlin, and the Enterprise Europe Network (EEN), the cluster is optimally networked internationally.

LiveEO  
Menlo79  
OSTAKON  
PANTOhealth  
RST Rail System Testing  
SCI Verkehr  
Witt Solutions  
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  
RLCW  
Transdev  
VBB  
Verkehrsbetrieb Potsdam

#### Research

BTC Havelland  
BTU Cottbus-Senftenberg  
CHESCO  
DLR  
Fraunhofer  
HTW Berlin  
ICAS  
TH Brandenburg  
TH Wildau  
TU Berlin

#### Associations | Networks

Allianz pro Schiene  
Bahnverband  
EURNEX  
KNRBB  
MOFAIR  
NEE  
RAIL-BB  
VDB

# Our aim: your success!

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

Our aim is to provide comprehensive support to companies and scientific institutions interested in inward investment or further development in the German 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)



**PHOTOS:** Cover: Carlos Leret, Unsplash Inside: Berlin Partner/photothek.de, Siemens Mobility GmbH | Holger Last, Berlin Partner - Wuestenhagen, Kühnapfel Fotografie (Böhme), Matthias Oertel (Zeichhardt)

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