



# Rail Systems Technology

in the Capital Region Berlin-Brandenburg



Berlin-Brandenburg booth at InnoTrans 2018



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

#### OEMs

Alstom  
Siemens Mobility  
Stadler Deutschland  
Thales

#### Vehicle engineering

arxes-tolina  
Fahrzeugwerk Brandenburg  
Fahrzeugwerke Miraustrasse  
Knorr-Bremse  
PanTrac  
Photon Laser Manufacturing  
PowerTech Converter  
PROSE Berlin  
RWS Railway Service  
SGW Werder  
Talگو  
TransTech F&E Vetschau

#### Track system | Transport facilities

GBM Gleisbaumechanik  
Spitzke  
Voestalpine BWG  
Wirthwein

#### Control technology | ICT

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

#### Service Providers

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

### 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, signaling 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



**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.«

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



»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 Mikočič**  
CEO  
Stadler Deutschland GmbH



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

- 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"

start-ups, 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, luminous 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 BTU Cottbus-Senftenberg have extensive expertise in vehicle technology, infrastructure and railway operation. In addition, a modern education and innovation centre as well as a business park for the railway industry is being built on the Bahn Technologie Campus Havelland (BTC) near the Wustermark marshalling yard west of



»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

Berlin. 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 Transport, Mobility and Logistics Cluster 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 (EUR-NEX), which bundles European railway research expertise from Berlin, and the Enterprise Europe Network (EEN), the cluster is optimally networked internationally.

Institut für Bahntechnik  
KCW  
LAT  
LiveEO  
nxtBase Technologies  
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  
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  
EURNEX  
IFV Bahntechnik  
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 Transport, Mobility and Logistics cluster. 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 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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Berlin Partner für Wirtschaft und Technologie GmbH  
Fasanenstraße 85  
10623 Berlin  
[www.berlin-partner.de](http://www.berlin-partner.de)  
Twitter: @BerlinPartner

Contact:  
Lutz Hübner  
T +49 30 46302 573  
[lutz.huebner@berlin-partner.de](mailto:lutz.huebner@berlin-partner.de)

Economic Development Agency | **Brandenburg**

Wirtschaftsförderung Land Brandenburg GmbH  
Babelsberger Straße 21  
14473 Potsdam  
[www.wfbb.de](http://www.wfbb.de)  
Twitter: @WFBBBrandenburg

Contact:  
Jürgen Vogler  
T +49 331 73061 425  
[juergen.vogler@wfbb.de](mailto:juergen.vogler@wfbb.de)



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

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