Exhibitors at a glance

Joint Booth
GERMAN REGIONS

Hall 1, Booth 1A33
Our engineers will invent Watt-ever you wish.
We still are the worldwide leading center of the automotive industry with innovative OEMs and suppliers as well as excellent experts and scientists. One out of four jobs in the automotive industry is located in Baden-Württemberg and about 25 percent of all sales are generated in this sector. Furthermore, over 1000 vendors are at home in Baden-Württemberg.

The automotive industry is confronted with epochal change. Climate targets, new mobility concepts and social changes are worldwide causing a dramatic alteration of the general conditions along which the automotive industry and all related economic activities will have to align themselves. New developments call for new framework conditions, which will have to be actively shaped by politics. All dimensions of the ongoing change, in technology, structure, mobility and energy supply, are progressing at a remarkable speed and will have to be processed and promoted by the concerned players in parallel.

We perceive this change to be also an immense opportunity. With the “strategy dialogue automotive industry BW” we have created a format with which we intend to monitor this process by standing together, politics, industry, employees, trade unions, chambers, federations and civil society. I am also very eager to cooperate with the other German federal states and the national government – we can only invest our location with future potential by standing together.

We have demonstrated early on with our best-practice projects “Model Region” and “Showcase Regions for Electric Mobility” what Germany is capable of achieving in e-mobility. This is a solid foundation to build on, to push things in a joint effort and to develop Germany into the demonstration market for the new mobility. In this spirit, we should make good use of the EVS30 and the inspiration it radiates in order to shape this issue with joy and energy. I am thus very pleased that you all are using the EVS30 as a platform for international exchange, for the presentation of your own product portfolios and to establish contacts.

Winfried Kretschmann
Prime Minister of the State of Baden-Württemberg
GERMAN REGIONS

1. Niedersachsen
2. Automotive Research Centre Niedersachsen, Braunschweig
3. Nordrhein-Westfalen
4. EnergyAgency: NRW, Düsseldorf
5. ICT for Electric Mobility, Berlin
6. Berlin
8. Germany Trade & Invest, Berlin
9. Sachsen
10. Baden-Württemberg
11. Cluster Electric Mobility South-West, Stuttgart
12. EVS consortium, Stuttgart
Baden-Württemberg is one of the leading innovation regions in Europe. Products from companies in Baden-Württemberg are highly appreciated all over the world. The region is especially known for its strong automotive, supplier and machinery industry. With around 220,000 employees, the automotive industry is the second largest industrial employer in Baden-Württemberg and with around 113 billion Euros turnover the branch with the highest turnover.

e-mobil BW – State Agency for Electric Mobility and Fuel Cell Technology Baden-Württemberg, founded 2010, faces the challenges coming up with the transformation process to electrification and digitalisation. The agency supports the industry in the transformation from conventional fossil-fuel-based vehicles to electric transportation and to pave the way for its industrialisation. To boost innovation and synergy, e-mobil BW coordinates and crosslinks all players, public funding, and the many initiatives. In addition to that, e-mobil BW is responsible for the management of the Cluster Electric Mobility South-West and the Cluster Fuel Cell BW.

With our partners, we create future mobility solutions: R&D and implementation projects with BEV, FCV and autonomous and connected vehicles, framework and infrastructure and education as well as training. An important factor for electric mobility are our municipalities – multiplier for electric mobility in an area state. Furthermore, a lot of high technology SME, so called hidden champions, work on the latest mobility solutions. Baden-Württemberg is connected internationally and in close cooperation with other leading economic regions all over the globe. Many companies from Baden-Württemberg produce abroad, but also a plenty of international high potential corporations are settled here. The region is the right place to find solutions: within the research and demonstration centers not only the electric and automated vehicle of tomorrow is developed, but also grid integration and production technology as well as IT solutions for industry 4.0. All players involved in electric mobility are able to offer competitive automated and networked electric mobility solutions made in Baden-Württemberg for the global market.
Given the global development of urban sprawl, digital transformation and resource scarcity, a key challenge for cities like Berlin is ensuring economic and sustainable mobility for residents and visitors. These changes require not only sustainable and innovative technologies but also the intelligent integration of low-emission mobility solutions. Smart mobility is an integral part of a smart city and must be integrated into forward-looking smart city concepts. Particularly in view of current events, smart mobility is an opportunity to restore trust in the automotive industry, but most of all it can make an important contribution to the energy transition. New mobility strategies, digitalisation and renewable forms of energy – smart mobility is an ideal vehicle for bringing these three fields together. Smart mobility is therefore of great interest to government, science, business and society. The German capital region is committed to meeting the future challenges as a metropolitan region. In the field of ‘urban technologies’, intensive research, developing and testing are being carried out today. This is not a new thing. Indeed, Berlin has a long tradition of innovation in the field of transport. Throughout history, the city has been – and will continue to be – a ‘first mover’ with regard to new mobility concepts. Berlin is a laboratory for smart mobility where practical applications can be tested while at the same time being converted to sources of added value for industry. Strategies that are successful here can be applied abroad.

All smart mobility threads are woven together by the Berlin Agency for Electromobility eMO, the central point of contact that advances smart mobility together with partners from business, science, and public administration. eMO was founded at the end of 2010 as an agency of the State of Berlin. It operates under the aegis of Berlin Partner for Business and Technology. Partners are the State of Brandenburg as well as companies and institutions in the fields of business and science. eMO bundles the competencies of business, science, government and administration. It links key actors and supports the development, implementation and promotion of regional, national and international innovation projects in the field of smart mobility.

The German capital region – the place to be for smart mobility.

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Initially founded in 2007, the Cluster Electric Mobility South-West aims at promoting the industrialisation of electric mobility to position the State of Baden-Württemberg as a leading provider for sustainable and intelligent mobility solutions. Baden-Württemberg is the cradle of the automobile. On 2 February 1886, Carl Benz received the German patent number 37435 for the world’s first automobile: the Benz Patent-Motorwagen Nummer I. Today, the automotive industry faces its most fundamental transformation. The mobility of the future is electrified, automated and connected. However, the technological transition towards a sustainable and intelligent mobility system bears a significant disruptive potential for the conventional automotive value chain.

With 125 associated partners from both industry and science, the Cluster is among the most prominent regional networks in the field of electric mobility. Across the geographical corridor between Karlsruhe, Mannheim, Stuttgart and Ulm, globally renowned large, medium-sized and small enterprises cooperate closely with excellent research institutes along four technological fields of innovation: Vehicle, Energy, Information and Communication (ICT) and Production. In addition, specialized working groups guarantee a systemic and interdisciplinary approach, for instance in the fields of Automated and Connected Driving, Utility Vehicles or Internationalisation.

As one of the most important automotive ecosystems worldwide, Baden-Württemberg follows a coherent strategy to successfully master the complex technological and structural change process. A key element of this strategy was the establishment of the State Agency for Electric Mobility and Fuel Cell Technology e-mobil BW in 2010. To boost electric mobility, the e-mobil BW coordinates the Cluster Electric Mobility South-West that aggregates the economic and academic strength of Baden-Württemberg.

### Key indicators
- Associated Partners: 125
- Funded Projects: 26

### Competences in electric mobility

### Innovations in Four Strategic Fields:
- Vehicle
- Energy
- Information and Communication Technology
- Production

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### Co-exhibitors
Cluster Electric Mobility South-West
Working group: Commercial vehicles
Working group: Intelligent move
Working group: Internationalisation

### Four Branches. 125 Partners. One cluster.
Stuttgart is worldwide known for the headquarters of big companies like Daimler, Porsche or Bosch. The city and the region are one of the strongest automotive clusters in Europe and the economical motor of Baden-Württemberg with 28 % of the net product. Stuttgart is also very active in electric mobility and many partners like the EVS30 consortium are working on future mobility solutions: since 2009 Stuttgart has been one of the Model Regions for Electric Mobility. In 2012, Stuttgart and Karlsruhe became the centre of the Showcase Region Living Lab BW mobil funded by the Federal Government, the government of Baden-Württemberg and the Region of Stuttgart. 34 projects demonstrated the suitability of electric mobility for every day use and were the incentive for many further projects and activities. Both programmes and the network behind it are coordinated by e-mobil BW – State Agency for Electric Mobility and Fuel Cell Technology and Stuttgart Region Economic Development Corporation.

The outcome: today electric mobility is visible everywhere in the townscape. Stuttgart is the city with the second largest charging infrastructure in Germany. With 550 electric vehicles, the world’s biggest free floating and pure electric car sharing fleet is located in Stuttgart (April 2017). And besides there are bike and scooter sharing stations. The City of Stuttgart has more than 100 electric vehicles in its fleet and until the end of 2017 the airport plans to realise the passenger and baggage transport fully zero emission. The topic of electric and fuel cell vehicles and applications is an integral part of different trade fairs and events taking place in the Stuttgart region. Messe Stuttgart and Peter Sauber Agency Exhibitions and Conferences have been active here for decades.

International partners from politics and business visit regularly the region to get in touch with the latest technological developments and to conduct business. Baden-Württemberg International (bw-i) is the State Agency of Baden-Württemberg for International Business Relations. With all these competences and with support of the German Solar Mobility Association (BSM) as German member of AVERE, these partners are organising EVS30 – strong partners for an electrified EVS30.

Key indicators

- 610,000 inhabitants in the City
- 2.7 million inhabitants in the Region of Stuttgart
- 3.7 % unemployment rate in the Region of Stuttgart (2017)

Competences in electric mobility

- Stuttgart has been Model Region for Electric Mobility since 2009
- Largest pure electric free floating carsharing fleet in the world
- Airport: zero emission passenger and baggage transport by end of 2017
- Mobility services: bike and scooter sharing, Polygo Card

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Co-exhibitors

Landeshauptstadt Stuttgart
Landesmesse Stuttgart
Bundesverband Solare Mobilität
e-mobil BW - State Agency for Electric Mobility and Fuel Cell Technology GmbH
Baden-Württemberg International (bw-i)
Stuttgart Region Economic Development Corporation (WRS)
Peter Sauber Agentur Messen und Kongresse GmbH
Germany Trade & Invest (GTAI) is the economic development agency of the Federal Republic of Germany. GTAI is supported by the Federal Ministry for Economic Affairs and Energy on the basis of a decision by the German Bundestag.

GTAI supports your project through every stage of the business location process. With contacts in every region in Germany, we can help you find the right partners as well as the right location.

Our free services include:

- Project-specific legal and tax support
- Incentive and financing option consultancy
- Strategic market entry consultancy
- Site visit, contact initiation and local support

Competences in electric mobility

- Around 100,000 electric vehicles on German roads (Q3/17)
- Around 8,000 AC and more than 350 DC charging stations (Q3/17)
- 100% year-on-year increase in new e-vehicle registrations (Q3/17)
- Extensive government support (250 million Euro R&D funding)

A STRONG PARTNER
Success in Germany with Germany Trade & Invest

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Contact

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In the heart of Europe, a marketplace of possibilities awaits for enterprises and people who are innovative, open to the world, and want to make a difference: the state of Baden-Württemberg. As one of the leading high-tech regions in Europe, Baden-Württemberg offers ideal conditions for contacts, investments, and cooperations in business and science. Our state not only opens the door to success and growth for you – here you can experience optimum working, learning, and living conditions. Welcome to Baden-Württemberg – where ideas work.

www.bw.de
www.bw-invest.de

Baden-Württemberg International
Agency for International Economic and Scientific Cooperation
The Federal Ministry for Economic Affairs and Energy supports research projects with comprehensive ICT-based solutions for the integration of commercial electric vehicles in logistics, energy and mobility infrastructures. The research focus ‘logistics’ will be on ICT-based fleet and logistics concepts. Research topics include, for example, autonomous heavy-duty vehicles in factory traffic, an IT platform for the control of (partially-) electrified commercial vehicle fleets in general cargo logistics or a battery change concept for the development of medium distances for transport of goods with electric utility vehicles. In the area of energy, for example, the interplay of renewable energies with commercial electric mobility in local smart grids, as well as a concept for line-managed agricultural machines with smart grid infrastructure are developed and tested. The research focus ‘mobility’ will be on mobility and platform concepts. These include, for example, an integral e-taxi system for cities, a concept for grid-compatible charging of electric buses, a solution for linking the data available from the car with data from stationary sensor infrastructure, an economic deployment management for e-mobility services as well as a mobility platform for commercial e-fleets. The aim of the technology programme is to identify economically viable applications of electric mobility in the commercial vehicle sector and to help them to make a breakthrough.

**Key indicators**

- 14 research projects
- Funding period: 2016–2019
- Overall funding volume of 48 million Euro

**Competences in electric mobility**

- ICT innovations in automotive engineering
- Charging, communication and platform technologies
- Economic fleet and logistics concepts
- Integration of electric vehicles into energy and transportation networks
- Comprehensive logistics, energy management and mobility concepts

ICT for Electric Mobility III: integration of commercial electric vehicles in logistics, energy and mobility infrastructures

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The Network Mobility Niedersachsen brings together the competence partners in Niedersachsen mobility industry – for the development and implementation of sustainable mobility solutions in and outside of Niedersachsen. The department is operated by the Innovationszentrum Niedersachsen and realizes multiple tasks: continuous monitoring of technological trends of all modes of transport, accompaniment of innovative intentions and initiation of projects, communication as well as interface function between the state and federal governments and the regions.

Niedersachsen – A top ranking mobility location

With its central position in Europe, direct access to the North Sea coast, excellent transport infrastructure, and as one of Germany’s top locations for the automobile, aviation and aerospace industries, Niedersachsen is up among the leaders of the mobility sector in Germany. Along with numerous global players our state is home to thriving, internationally oriented SMEs and a broad-based component supplier industry. One-third of all Niedersachsen’s export good originate in the mobility sector.

From Niedersachsen, many enterprises keep the world on the move – in every part of the mobility sector: automotive, with global leader Volkswagen AG and the comprehensive component supply industry with around 700 automotive suppliers, through aerospace with Airbus, CFK Valley Stade and Braunschweig Research Airport, to core competences in logistics with Wilhelmshaven Container Terminal and nine ports along Niedersachsen’s North Sea coast.

There are dynamic R&D activities at several universities and research institutions, such as the German Aerospace Center (DLR) in Braunschweig, the Automotive Research Centre Niedersachsen (NFF) and the embedded Battery LabFactory Braunschweig (BLB). Niedersachsen is showing the way in the fields of electric mobility, traffic telematics and autonomous driving technology. Seize your chance to benefit from our excellent infrastructure, smoothly-functioning networks and sector-specific research and development facilities.

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On the move –

Welcome to the Land of New Mobility and Renewable Energy

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The Stuttgart Region is one of the leading economic areas in Europe. The world or German headquarters of global players such as Daimler, Porsche, Bosch, IBM or Hewlett-Packard are based in the region. With its pioneering work in the fields of fuel cell technology, electromobility, IT for cars, and virtual reality, the region consistently sets standards within the scientific community.

region-stuttgart.de
wrs.region-stuttgart.de

The Stuttgart Region – birthplace of the automobile

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Research Vision of Sustainable Mobility

The NFF is a TU Braunschweig scientific centre and was founded in 2007 to establish the Research Region of Braunschweig together with the NFF member universities, the TU Clausthal and the LU Hanover, as a centre of excellence on an international level. The NFF has developed a vision of sustainable mobility arising from the existing social, economic and economical demands on vehicle technologies and usage models. This vision is to be implemented in four fields of scientific research and is intended to sustainably ensure individual mobility in conurbations: Intelligent vehicle, Low-emission vehicle, Flexible vehicle concepts & vehicle production, Mobility management, Electric Mobility.

Implementing this research requires a broad vision with a solid structure. The collaboration should cross over the faculties: science and engineering as well as business and social. This is exactly what is happening now among the 19 permanent members (TU Braunschweig, LU Hanover, TU Clausthal, DLR) and 23 associate members (i. a. HBK Braunschweig, Ostfalia, Wolfsburg AG, Fraunhofer).

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competences in electric mobility
- powertrain
- energy supply
- production processes
- vehicle concepts
- system integration

© NFF/Bierwagen

Exhibitor
The Fuel Cell and Hydrogen Network NRW is one of the networks for renewable energies of the EnergyAgency.NRW. The network brings together experienced and new players in the field of fuel cell, hydrogen and e-mobility technology to jointly promote the development and market introduction. By intensifying the transfer of knowledge between research and industry, new fields are created, the production and research location NRW strengthened and the technology guided to market introduction.

Key economic indicators

- 450 Network Members
- 120 Members from Model Region E-Mobility

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Co-exhibitors

Leopold Kostal GmbH & Co. KG
Ruhr-University Bochum - Power Systems Technology and Power Mechatronics
Westfälische Hochschule – Institut Demand Logistics
Wystrach GmbH
ZBT – The Fuel Cell Research Center GmbH

Competences in electric mobility

- Development of e-mobility and fuel cell technology
- Consolidation of NRW as an internationally recognized e-mobility location
- Market introduction of applications for e-mobility and fuel cells/hydrogen
- Integration of renewable energy in the transport sector
- Use of sustainably generated hydrogen in energy and transport sector

EnergyAgency.NRW: North Rhine-Westphalian’s service provider for energy Hydrogen and Fuel Cells, E-mobility Network NRW

Exhibitor
cO-exhibitors
Leopold Kostal GmbH & Co. KG
Ruhr-University Bochum - Power Systems Technology and Power Mechatronics
Westfälische Hochschule – Institut Demand Logistics
Wystrach GmbH
ZBT – The Fuel Cell Research Center GmbH
Baden-Württemberg – Expertise in Electric Mobility

Competences in electric mobility

- Hydrogen as emission-free fuel on the roads, at sea and for rail transport
- Nationwide roll-out of hydrogen refuelling and recharging infrastructure
- Procurement of electric vehicles for municipalities and municipal companies

Emission-free mobility – with hydrogen and battery

NOW is responsible for the coordination and management of the federal government’s National Innovation Programme for Hydrogen and Fuel Cell Technology (NIP) and the electric mobility funding guideline of the Federal Ministry of Transport and Digital Infrastructure. The primary task of NOW is to initiate projects, evaluate proposals and to bundle projects in such a way that synergy effects can be exploited. NOW also undertakes so-called cross-sectional tasks. These include topics such as production technologies, further education and training, international collaborations, communication at the interface of politics, industry and science as well as public relations, in order to increase overall awareness of the technologies and their perspectives. Commissioned by the BMVI, NOW is also responsible for the further development of the Mobility and Fuel Strategy, the implementation of EU Directive 2014/94/EU on the deployment of alternative fuel infrastructure as well as the implementation of the recharging infrastructure programme for mobility.

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Take a look at the sourcebook
www.emobil-in-bw.de/en
Saxony is one of the innovation-leading regions in Europe. It is characterized by a dynamic economy and a powerful R&D landscape.

Saxony’s researchers and entrepreneurs provide products and services along almost all steps of the value creation chain of electric mobility. The BMW Plant Leipzig has been developed into a center for Electric Mobility. The BMW i3 and i8 are produced here. Porsche’s hybrid cars come from the assembly lines in Leipzig. The Volkswagen Group will be producing its first vehicle designed completely for electric mobility, the I.D., at its Zwickau plant. VW’s ‘Transparent Factory’ in Dresden is becoming a center of future mobility – including production of the e-Golf and an incubator for startups from the mobility sector. Daimler is just expanding its Deutsche ACCUMOTIVE plant in Kamenz into one of the biggest battery factories worldwide. The supply industry develops and produces, e.g., powertrain components, batteries or power electronics. Renowned institutions are researching on electrochemistry, power electronics or software development.

For years, as a German model region for electric mobility, Saxony has also been dealing with the transition to efficient urban mobility. Saxony's researchers and entrepreneurs focus on e.g. hybrid and electric buses and trains, lightweight engineering, charging infrastructure, ICT, business models as well as battery production. The future strategy ‘Synchronised Mobility 2023’ has complemented Saxony’s focus on electric mobility by the topic intelligent transport systems – with the aim of creating an urban test bed for connected and automated driving. Saxony, as one of the German top locations for automotive industry as well as Europe’s largest cluster for microelectronics/ICT, is a perfect pilot region for intelligent transport and autonomous driving. With the ‘5G Lab Germany’ in Dresden and other outstanding efforts for developing the future wireless communication standards Saxony will pave the way for highly automated driver assistance systems that make road traffic safer, more efficient and more convenient.

**SAXONY! – Pioneering EV Production**

Saxony is one of the innovation-leading regions in Europe. It is characterized by a dynamic economy and a powerful R&D landscape.

Saxony’s researchers and entrepreneurs provide products and services along almost all steps of the value creation chain of electric mobility. The BMW Plant Leipzig has been developed into a center for Electric Mobility. The BMW i3 and i8 are produced here. Porsche’s hybrid cars come from the assembly lines in Leipzig. The Volkswagen Group will be producing its first vehicle designed completely for electric mobility, the I.D., at its Zwickau plant. VW’s ‘Transparent Factory’ in Dresden is becoming a center of future mobility.

**Key indicators**

- Area: 18,449 sqkm, popul. 4.09 million
- GDP: 118,500 million Euro
- Industrial turnover: 57,600 million Euro
  (Automotive industry: 17,003 million Euro)

**Competences in electric mobility**

- Products and services along the value creation chain of electric mobility
- BMW, VW and Porsche are producing electric/hybrid cars in Saxony
- Supply industry: batteries, chassis parts, interior, car electronics
- Main R&D fields: lightweight constr., autonom. driving, electric mobility
- Future strategy/testbed for ITS, autonom. driving, eff. urban mobility

**Contact**

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**Co-exhibitors**

FES GmbH Fahrzeug-Entwicklung Sachsen
Litarion GmbH
Wirtschaftsförderung Sachsen GmbH WFS
(Saxony Economic Development Corporation)
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<th>ICT for Electric Mobility</th>
<th>Sachsen</th>
<th>Berlin</th>
<th>National Organisation</th>
<th>Nordrheim-Westfalen</th>
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