

Press Information

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Boosting future mobility – Baden-Württemberg's Pavilion at Hannover Messe 2017

34 exhibitors will be offering visitors a concrete insight into the new world of mobility

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Rethinking, re-engineering, re-networking mobility – Baden-Württemberg's Pavilion at Hannover Messe is dedicated to the interplay of the energy, mobility and data processing sectors. The pavilion showcases new products, developments and pilot projects offering zero-emission and networked mobility solutions for tomorrow's drivers. The 34 exhibitors include software developers, SMEs, carmakers, research institutions, energy providers and – representing the infrastructure sector – airport and car park operators.

The Baden-Württemberg Pavilion 'Boosting future mobility' is part of the MobiliTec Area and co-organiser of the MobiliTec Forum – the 'New World of Energy' – which is taking place from 24 - 28 April 2017 in Hall 27 at Hannover's trade fair for industrial technology.

Number of professional visitors has continued to rise

This is already the sixth time that the Baden-Württemberg Pavilion in Hall 27 has provided a meeting point for e-mobility made in Germany's federal state of Baden-Württemberg. With more than 600 m² of exhibition floor space at their disposal, some 34 exhibitors will be offering visitors a concrete insight into the new world of mobility.

'Since 2011, the number of professional visitors has continued to rise. This mostly has to do with the exhibitors' innovativeness, but also with the side-events we organise, such as the Mobility Forum and free tours for students based in Baden-Württemberg along with other networking events,' says Franz Loogen, Managing Director of Baden-Württemberg's state agency for electric mobility and fuel cell technology e-mobil BW GmbH. 'Our exhibitors' forward-looking and yet fully

developed products show that, in many places, electro mobility has long since outgrown the research niche and has successfully transitioned into the automotive mainstream. This development is crucial in terms of being able to offer competitive automated and networked electric mobility solutions for the global market,' explains Loogen.

Traffic control – networked and via apps

An example of the new possibilities for networked traffic control is the project 'moveBW' which came about thanks to a competition by Baden-Württemberg's Transport Ministry. In July 2016, a technology consortium spearheaded by Robert Bosch GmbH started developing a platform that collects and networks real-time data on traffic, parking situations and public transport system timetables. The data is used to complement regional traffic information and traffic guidance systems and facilitates joint invoicing, too. The moveBW app, likewise a new navigation tool that operates across all modes of transport, harnesses this information to guide transport users to their destinations quickly and easily. Simple to use, this mobility assistant optimises the use of all transport options and available infrastructure. As a result, it is expected to impact positively on traffic congestion, noise and noxious emissions. Another feature is the reservation of parking spaces and charging stations for e-vehicles – which could significantly reduce the volume of parking search traffic. The metropolitan region of Stuttgart is set to start piloting moveBW in summer 2017 (Exhibitor: Robert Bosch GmbH, highQ Professional Services GmbH and PBW Parkraumgesellschaft Baden-Württemberg mbH).

Operating system for electric mobility

Automated driving and battery module solutions are at the cutting edge of technology. Under the product name LionTelligence, the CTC car tech company GmbH is developing an electric mobility operating system for manufacturers, car dealerships and suppliers. Big data algorithms are coupled with physical-empirical models to create smart services for all actors along the battery life cycle. The networked systems for characterising and analysing lithium ion batteries make it easier to monitor the battery at cellular level, from production through to recycling.

By networking integration, operation and 2nd life applications, data exchange provides for ongoing improvements to patented battery modules – facilitating individual battery diagnosis and characterisation at any time throughout its lifecycle. With its solutions for range, charging time and costs, the Lion product range (LionGuard/LionTrace/LionAid/LionHome) for battery lifecycle management is thus paving the way for the batteries of tomorrow.

Components for e-vehicles

GreenIng GmbH is scheduled to present a compact propulsion and fuel cell module with an innovative package concept, allowing optimum rear-axle fuel cell integration. GreenIng will also be showcasing the future of e-vehicle charging using a high-performance wireless system that, as part of a smart grid, can be operated bi-directionally in public and private power networks. The compatible battery module has a modular structure, which makes it possible to exchange individual cell packages. Both aspects – easy maintenance and wireless charging – lower costs and make e-vehicles more suitable for daily use.

Electric ground support vehicles at Stuttgart Airport

Stuttgart Airport is already proving that e-vehicles are suitable for daily use – as can be seen in the increasing electrification of its fleet of apron vehicles. With more than 10 million passengers a year (status 2016), Stuttgart Airport is scheduled to handle all passenger and baggage transport using electric support vehicles by end 2017. By 2020, it aims to add a total of 40 airfield service vehicles to its electric fleet, including passenger busses, vans, conveyors and baggage or freight tractors. In Hannover, Stuttgart will be presenting its electrification strategy using an electric baggage tractor powered by a lithium ion battery. At present, the airport has electrified around 50 per cent of its baggage tractors, busses and conveyors and replaced diesel generators with battery systems for apron services.

Exhibitors in the Baden-Württemberg Pavilion

The Baden-Württemberg Pavilion is a joint project by e-mobil BW, Baden-Württemberg International and the economic promotion agency

Wirtschaftsförderung Region Stuttgart. The core topics are hybrid and electric propulsion, mobile and stationary energy storage, alternative fuel and fuel cells as well as holistic mobility solutions. A total of 34 companies, universities, research institutions, clusters and networks based in the German federal state of Baden-Württemberg will be exhibiting their innovations on an area covering more than 600 m2.

- ADS-TEC GmbH (Nürtingen)
- ASD Automatic Storage Device GmbH (Umkirch)
- ASG Allweier Systeme GmbH (Überlingen)
- Cluster Brennstoffzelle BW (Stuttgart)
- Cluster Elektromobilität Süd-West (Stuttgart)
- CTC cartech company GmbH (Böblingen)
- Dr. Ing. h.c. F. Porsche AG (Stuttgart)
- ebe EUROPA GmbH (Memmingen)
- e-mobil BW GmbH – Landesagentur für Elektromobilität Baden-Württemberg (Stuttgart)
- EnBW Energie Baden-Württemberg AG (Karlsruhe)
- Fischer Elektromotoren GmbH (Billigen-Allfeld)
- Flughafen Stuttgart GmbH
- FKFS Forschungsinstitut für Kraftfahrwesen und Fahrzeugmotoren Stuttgart
- FZI Forschungszentrum Informatik am KIT (Karlsruhe)
- GreenIng GmbH & Co. KG (Leutenbach)
- highQ Professional Services GmbH (Stuttgart)
- Industrie- und Handelskammer Karlsruhe
- IPEK Institut für Produktentwicklung am KIT (Karlsruhe)
- J. Schmalz GmbH (Glatten)
- Kleiner GmbH Stanztechnik (Pforzheim)
- Landesmesse Stuttgart GmbH
- Lapp Systems GmbH (Stuttgart)
- NEUBER GmbH & Co. KG (Kornwestheim)

- PBW Parkraumgesellschaft Baden-Württemberg mbH (Stuttgart)
- Robert Bosch GmbH (Stuttgart)
- Swarco Traffic Systems GmbH (Unterensingen)
- Tamagawa Europe GmbH (Ulm)
- Technische Akademie Schwäbisch Gmünd e.V.
- Wirtschaftsförderung Region Stuttgart GmbH
- Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg ZSW (Ulm)
- Zuweso GmbH – Station i (Stuttgart)

Medienkontakt:

e-mobil BW GmbH

Landesagentur für Elektromobilität

und Brennstoffzellentechnologie

Pressesprecherin: Isabell Knüttgen

Leuschnerstr. 45 | 70176 Stuttgart

Telefon: +49 711 892385-23 | Telefax: +49 711 892385-49

Mobil: +49 1511 4094007

isabell.knuettgen@e-mobilbw.de | www.e-mobilbw.de

e-mobil BW GmbH: State Agency for Electric Mobility and Fuel Cell Technology

As the state of Baden-Württemberg's agency for innovation, e-mobil BW is active in the establishment of the overall electric mobility system. It supports the energy turnaround and in a network comprising partners from business, research and the public sector promotes the industrialisation and commercialisation of viable mobility solutions. It thereby strengthens Baden-Württemberg as a business and research region over the long term. Among other measures, e-mobil BW coordinates the "Leading-edge Cluster Electric Mobility South West", which with around 120 players from industry and research represents one of the most significant regional associations in the field of electric mobility. In the "Cluster Fuel Cell BW", e-mobil BW brings together more than 60 players from business, research and politics on the

subjects of hydrogen and fuel cell technology. Further information at: www.emobilbw.de.

Baden-Württemberg International

Baden-Württemberg International (bw-i) is the state competence centre for the internationalisation of business, science and research. bw-i lends support to domestic and foreign companies, clusters and networks along with universities and research institutions by serving as the central point of contact for all questions relating to internationalisation. Its task is to support firms from Baden-Württemberg in accessing foreign markets and to position the state internationally as an prime location for business and research. The measures pursued are aimed at securing and strengthening the position of Baden-Württemberg over the long term – by encouraging foreign capital investment, helping companies to settle here and promoting cooperative ventures between companies and institutions as well as assisting businesses to recruit the qualified staff they need as part of the Fachkräfteallianz (Skilled Worker Alliance) Baden-Württemberg.

Wirtschaftsförderung Region Stuttgart GmbH (Stuttgart Region Economic Development Corporation)

The Wirtschaftsförderung Region Stuttgart GmbH (WRS – Stuttgart Region Economic Development Corporation) is the main point of contact for investors and companies in the city of Stuttgart and five surrounding administrative districts. It raises awareness of the qualities that the business region has to offer, supports companies setting up in the region and promotes modern technologies. In numerous projects, the WRS supports regional companies in the transition from a modern automotive region to that of a sustainably viable mobility region, such as with the “Sustainable Mobility Model Region” (Modellregion nachhaltige Mobilität) regional programme or the “Region Stuttgart electromobility Model Region” programme of the federal government. Alternative drives, new mobility concepts for people and goods along with autonomous driving are key fields of focus.