

Energy

HANNOVER
MESSE

23.–27. April 2018
Hall 27 | Booth H75



Baden-Württemberg

Where ideas work.

Baden-Württemberg Pavilion

 Exhibitors at a glance



Baden-Württemberg

Where ideas work.

Boosting Future Mobility



Dr. Kai Schmidt-Eisenlohr, CEO
Baden-Württemberg International GmbH



Franz Loogen, President
e-mobil BW GmbH



Dr. Walter Rogg, Managing Director
Wirtschaftsförderung Region Stuttgart GmbH

The future has a long-standing tradition in Baden-Württemberg. And an excellent base: in 2016 the south-west of Germany once again topped the Innovation Index, which ranked it as the region with the strongest innovative force within the European Union.


Research-intensive sectors provide employment for the largest percentage of the workforce here, and no other European region registers more patents per capita than Baden-Württemberg. Many interconnected factors come together to make this possible: The region's research facilities, start-ups, SMEs and internationally competitive enterprises invest 4.9% of Baden-Württemberg's economic output into research and development – a figure that is unparalleled in any other part of the EU. In sum, one of the world's largest automobile and mobility cluster is gearing up for the mobility of the future. In addition, the Strategy Dialogue Automotive Industry BW, an entirely new cooperation format launched by the state government of Baden-Württemberg, demonstrates the determination of the industry, the research sector and on the political level to jointly address the huge challenges posed by the digitalisation and electrification of mobility.

The internationally networked development centres of Baden-Württemberg's medium-sized enterprises, automobile manufacturers and suppliers generate vitally important impetus for innovation. Developers, engineers and programmers in Baden-Württemberg are driving automated, connected and electrified mobility solutions towards commercialisation – in each sector, for all clients,

on every market around the globe. The Hannover Messe is one of the world's top showcases for overarching developments and trends, where trailblazing innovations can be introduced to an international audience. Baden-Württemberg's Pavilion in Hall 27 at the Hannover Messe has for years been demonstrating with growing success that our businesses, research institutes and universities are working on the right solutions for a transition to climate-friendly mobility. The necessary innovative interaction between the fields of energy, mobility and data processing is impressively demonstrated on the 600 square metres of the Baden-Württemberg stand.

The road to future mobility leads through Baden-Württemberg. After all, every single one of our innovators and inventors has always known that although it is impossible to predict the future, we can take it into our own hands and shape it.



 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-i.de
www.bw-invest.de

Facts and figures about Baden-Württemberg – the innovation region No. 1 in Europe



Area:

35,741 km² –
approx. 10 % of
Germany

Inhabitants:

10.9 million –
approx. 13 % of
Germany

Major cities:

Stuttgart, Karlsruhe,
Mannheim, Freiburg,
Heidelberg, Heilbronn,
Ulm, Pforzheim,
Reutlingen

Gross domestic product:

477 billion EUR –
15.2 % of German GDP
GDP per capita:
43,640 EUR

Exports:

192 billion EUR /
volume per capita:
17,460 EUR

Leading industry sectors

- Production technology and mechanical engineering
- Automotive industry and sustainable mobility solutions
- Aerospace industry
- Health care and medical technology
- Life sciences
- ICT industry
- Environmental technology and renewables

Research and development

- Research and development spending in 2015: 4.9 % of GDP (German average: 2.9 %)
- Patents applied for per 100.000 inhabitants: 132 (highest in Germany)

Excellent infrastructure for studying and research

- 9 Research Universities
- 23 Universities of Applied Sciences
- Baden-Württemberg Cooperative State University with 9 main locations
- More than 25 Private Universities
- 12 Max Planck Institutes / 17 Fraunhofer Institutes and Sub-Institutes / 2 Centres of the Helmholtz - Association of German Research Centres / 7 Leibniz Institutes
- 13 Contract Research Institutions
- 708 Steinbeis Companies

Organiser of the Baden-Württemberg Pavilion

Baden-Württemberg International (bw-i) is the competence centre of the state of Baden-Württemberg (Germany) for the internationalisation, promotion and development of business, science and research. We lend support to domestic and foreign companies, clusters and networks, research institutions and universities by serving as the central first point-of-contact in all questions relating to internationalisation. Opening up foreign markets for Baden-Württemberg companies and profiling the state globally as an ideal location for industry, business and science are core aspects of our mission. The work we do is aimed at securing and strengthening the position of Baden-Württemberg over the long term. www.bw-i.de



e-mobil BW is the state agency for new mobility solutions and the automotive sector of the state of Baden-Württemberg. It is a central source of information and advice on these issues. Its primary aim is to support 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 cross-links all players, public funding, and the many initiatives in Baden-Württemberg. www.e-mobilbw.de



Stuttgart Region Economic Development Corporation (WRS) provides companies and investors with ideas and active support necessary to stay ahead of the competition. With our expertise, resources and personal commitment, we make a real difference to enterprises and investors that are either already based in the region or wish to locate here. To make sure that the region maintains its leading position in the long term, Stuttgart Region Economic Development Corporation identifies future trends at the earliest possible stage and responds to them with its services in a flexible way. Our team is looking forward to meeting you! www.wrs.region-stuttgart.de



The Stuttgart Region – reinventing mobility

The Stuttgart Region is one of the leading economic areas in Europe. As neighbours to the headquarters of world-famous companies like Daimler, Porsche or Bosch and manifold hidden champions, innovative start-up companies now have a place to develop.

The M.TECH Accelerator is host to 25 start-up teams in parallel that are driving their company development in the fields of mobility and engineering. Find out more at mtechaccelerator.com, and meet the start-up teams and the project drivers at the Baden-Württemberg Stand in the MobiliTEC Hall.

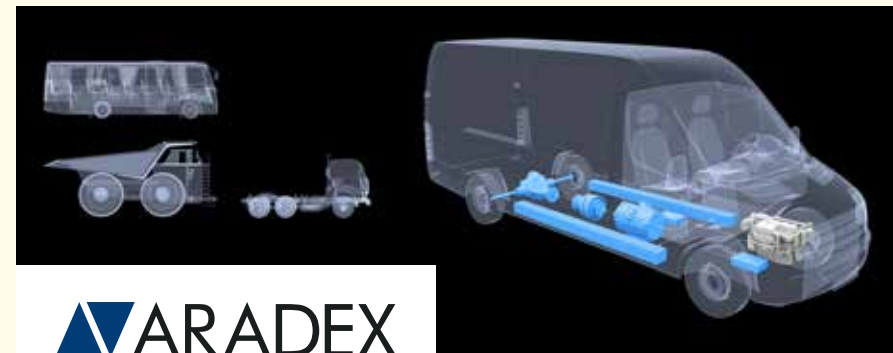
region-stuttgart.de
mtechaccelerator.com





Mit Li-Ion-Batteriespeichern und Energiemanagementsystemen bietet ADS-TEC professionelle Lösungen für den Heim- und Industriebereich sowie die E-Mobilität. Technology for Professionals. With li-ion storage solutions and energy management systems, ADS-TEC offers professional solutions for home use as well as for industry and e-mobility. Technology for Professionals.

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Elektrifizieren Sie Nutzfahrzeuge, Baumaschinen & Schiffe mit ARADEx: Unsere innovative Technologie, smarte Systemauslegung & erstklassiger Service holt mehr aus Ihrer Anwendung heraus! Electrify commercial vehicles, construction equipment & ships with ARADEx: Our innovative technology, smart system design and first-class service will get more out of your application!

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Airbus ist ein führender Hersteller von Satelliten für Erdbeobachtung, Wissenschaft und Telekommunikation. Die Tochter Tesat liefert Systeme und Ausrüstung für Satellitenkommunikation. Airbus is a leading provider of spacecraft for observation, science and telecommunication. Its subsidiary Tesat provides systems and equipment for telecommunication via satellite.

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Leistungsdichte, Kraft und wartungsfreie Ausdauer kennzeichnen die Radnabengetriebe der ASG – die Basis hocheffizienter Antriebsstränge für mobile Arbeitsmaschinen. Power density and maintenance free stamina are the hallmarks of the ASG wheel hub gearboxes. They provide the basis for highly efficient train drives to propel mobile working machines.

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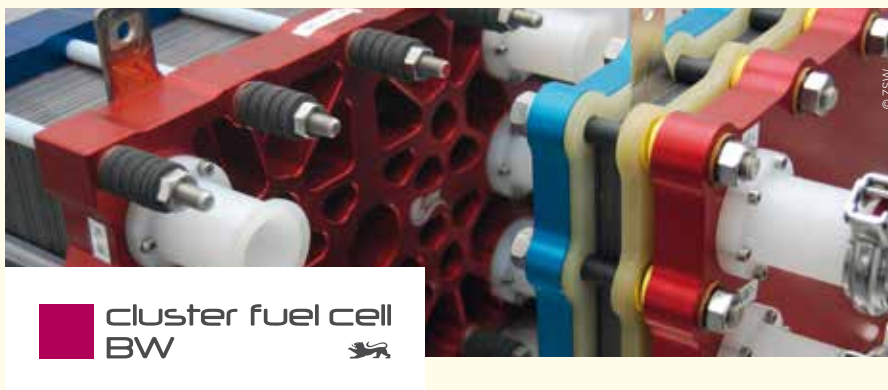
bridgingIT ist ein unabhängiges IT-Beratungsunternehmen, mit einem Fokus auf Smart Mobility und Smart Energy, das als Full-Service Provider die Anforderungen der IT mit denen der Fachseite verbindet. bridgingIT is an independent IT consultancy with a focus on smart mobility and smart energy. Being a full-service provider the company bridges the requirements of IT to the requirements of the business.

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Der Spitzencluster Elektromobilität Süd-West verbindet rund 127 Akteure aus Wirtschaft und Wissenschaft in der Region Karlsruhe – Mannheim – Stuttgart – Ulm. The leading-edge cluster Electric Mobility South West connects about 127 key players from business and science within the region of Karlsruhe – Mannheim – Stuttgart – Ulm.

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Der Cluster Brennstoffzelle BW bündelt die Aktivitäten und Kompetenzen im Bereich Wasserstoff- und Brennstoffzellen-Technologie in Baden-Württemberg. The Cluster Fuel Cell BW connects the various activities and competencies in the area of hydrogen and fuel cell technology in Baden-Württemberg.

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CTC cartech company, ein Engineering-Unternehmen im Bereich der Elektromobilität, ist spezialisiert auf Steuerungen von Antrieben, Vernetzung und Automatisierung, sowie auf Messtechnik zur Batteriediagnose. CTC cartech company, an engineering enterprise in the field of e-Mobility, is focused on controls for ICEs and electrical drive trains, automation and system integration, as well as technologies for battery diagnosis.

CTC cartech company GmbH
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71034 Böblingen
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For more than 45 years, Drees & Sommer has supported public- and private-sector owners and investors in all aspects of real estate.

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FKFS

Das FKFS realisiert Forschungs- und Entwicklungsprojekte in den Bereichen Fahrzeugantrieb, Fahrzeugtechnik, Elektronik und Software sowie zur Elektromobilität. The research institute FKFS realizes research and development projects in the fields of automotive powertrains, engineering, electronics and software as well as electric mobility.

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EnBW

Die EnBW Energie Baden-Württemberg AG macht E-Mobilität alltagstauglich, bietet hierzu digitale Lösungen und die passende Ladeinfrastruktur für zu Hause, unterwegs und im Unternehmen. EnBW Energie Baden-Württemberg AG is bringing e-mobility into people's everyday lives, providing digital solutions and a charging infrastructure for users at home, on the road and at work.

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GreenIng ist Entwicklungspartner für Effizienztechnologien im Bereich Automotive. Im Fokus stehen die Antriebstechnologie, der Leichtbau und das Autonome Fahren. GreenIng is a development partner for efficiency technology in the automotive sector. The focus is on powertrain, lightweight construction and autonomous driving.

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University of Stuttgart
Institute of Electrical
Energy Conversion

Das Institut für Elektrische Energiewandlung der Universität Stuttgart forscht in den Bereichen der „Elektrischen Maschinen“ und der „Kontaktlosen Energieübertragung“. The Institute of Electrical Energy Conversion of the University of Stuttgart focuses on the research areas of “Electric Machines” as well as “Contactless Energy Transfer”.

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Als Hersteller von Kabeln und Leitungen bietet LAPP die Entwicklung und Produktion individuell konfektionierbarer eMobility Systeme mit variablen Ladekabel- und Steckertypen. As a manufacturer of cables and conductors, LAPP offers the development and production of customised eMobility applications with variable charging cable and connector types.

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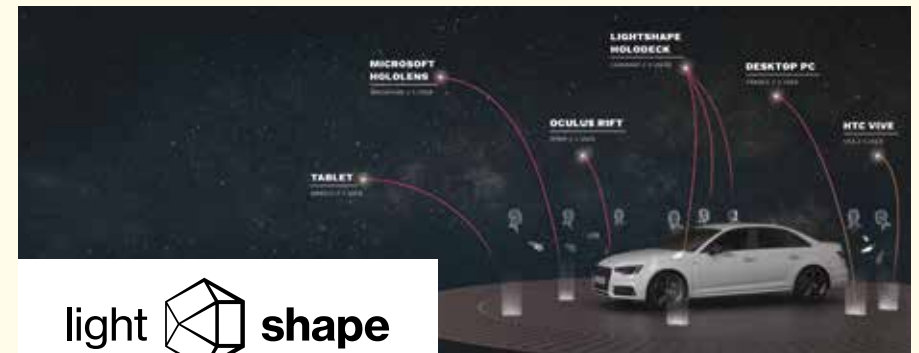


KLEINER Stanztechnik
Wir denken Lösungen

KLEINER ist weltweit operierender Partner der Automobil- und Elektroindustrie. Wir entwickeln und realisieren Präzisionsstanzteile und die dazu gehörenden Hochleistungsstanzwerkzeuge.

KLEINER is a globally operating partner of the automotive and electronics industries. We develop and produce high precision stamped parts and the associated tools.

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Die auf virtuelle Kommunikation spezialisierte Firma lightshape gehört zu den Pionieren der digitalen Realität und wurde dafür bereits mehrfach ausgezeichnet. Specialised on virtual communication, lightshape is an award winning pioneer in digital reality.

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 strategiedialog
 automobilwirtschaft BW
 

Der Strategiedialog Automobilwirtschaft Baden-Württemberg ist ein neues Format der institutionalisierten Zusammenarbeit. Ziel ist es, den Transformationsprozess erfolgreich zu gestalten. The Strategy Dialogue Automotive Industry Baden-Württemberg presents a new format of institutionalised collaboration. The aim is to successfully shape the transformation process.

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Die Technische Akademie für berufliche Bildung Schwäbisch Gmünd ist seit über 30 Jahren kompetenter Partner und Anbieter in allen Fragen rund um die berufliche Bildung. For 30 years, the „Technische Akademie für berufliche Bildung Schwäbisch Gmünd“ has been a competent partner and provider of expert solutions to all issues regarding business and vocational training.

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 berufliche Bildung Schwäbisch
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 73529 Schwäbisch Gmünd
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Wir bieten Resolver, Encoder, AC-Servo- & Schrittmotoren für die Bewegungssteuerung, Gyrometer, Beschleunigungsmesser & IMU für autonome Fahrsysteme.

We offer resolver for HV, gyro, accelerometer & IMU for Autonomous, AC servo motor, encoder, stepping motor, driver & controller for motion control.

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Das Kerngeschäft ist die Herstellung von Elektromotoren und Messgeräten für den Gleisbau. Mit über 50 Jahren Entwicklungsarbeit zählt man heute zu einem der führenden Hersteller weltweit. Core business is the manufacturing of electric motors and track measuring devices. More than 50 years engineering are a tribute to being one of the most leading manufacturers worldwide.

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VSF bringt Softwareentwicklung und IT Services auf ein höheres Level. Mit unserer VCX Lösung revolutionieren wir den Homologationsprozess von Fahrzeugherstellern. VSF takes software development and IT service to the next level. With our VCX solution we help road equipment manufacturers revolutionize their homologation process.

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Europaweit führendes Institut für angewandte Forschung zu Photovoltaik, regenerativen Kraftstoffen, Batterien, Wasserstoff & Brennstoffzellen sowie Energiesystemanalysen. One of the leading European institutes for applied research in the fields of photovoltaics, renewable fuels, batteries, hydrogen & fuel cells and energy systems analysis.

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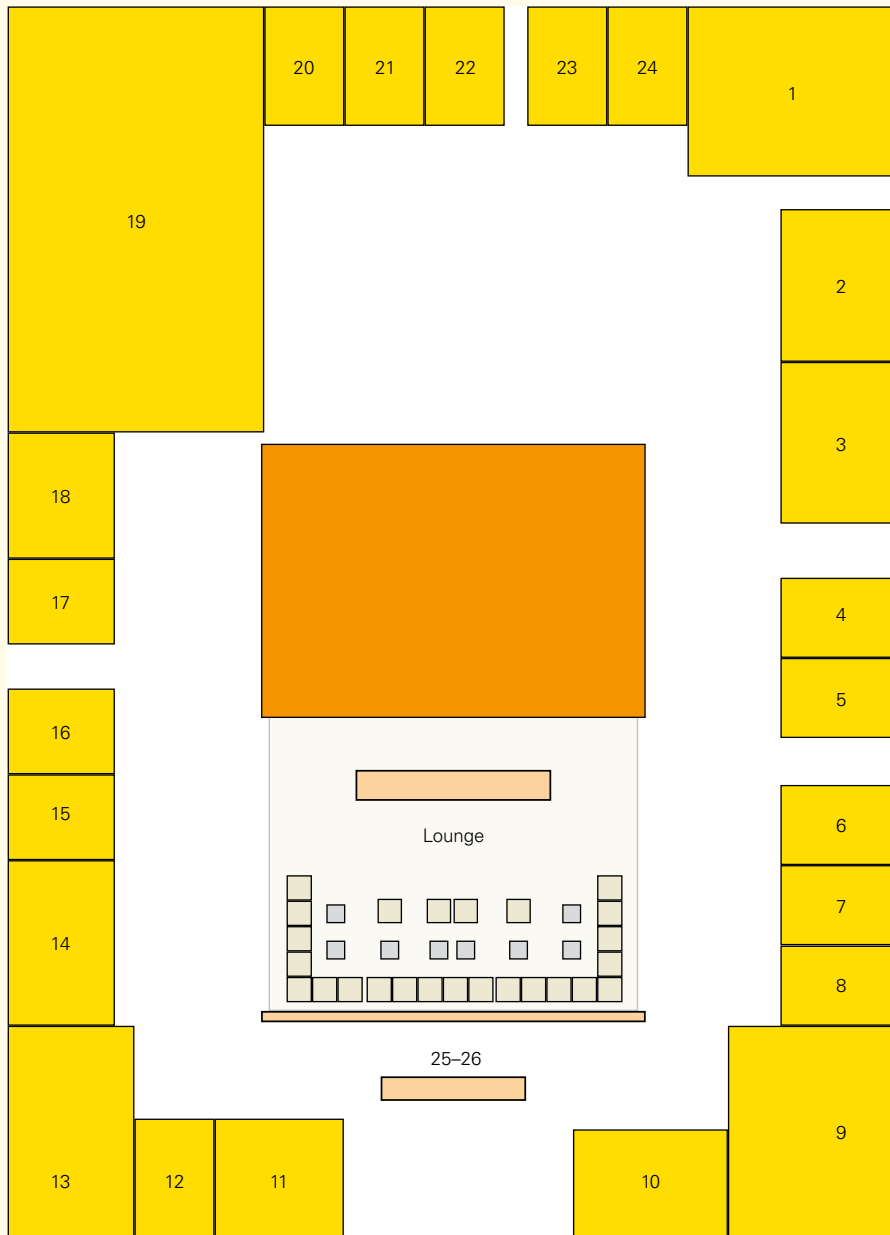
M.TECH Accelerator – Ideen in Bewegung
Lernen Sie das Team des M.TECH Accelerators sowie einige der Gründerteams kennen, die ihre Geschäftsideen im Bereich Mobilität, Engineering und Maschinenbau vorstellen. M.TECH Accelerator – We set your ideas in motion. Meet the M.TECH Accelerator and its start-up teams active in the field of mobility, engineering and manufacturing.

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Zwick Roell ist weltweit führender Anbieter von Prüfmaschinen für die Werkstoffprüfung. Unsere Materialprüfmaschinen werden in der F&E und in der Qualitätssicherung in mehr als 20 Branchen eingesetzt. Zwick Roell is the world's leading supplier of materials testing machines. Our materials testing machines are used world-wide in R&D and quality assurance in more than 20 industries.

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Exhibitors at a glance

1. **ads-tec GmbH**, Nürtingen
2. **Lapp Systems GmbH**, Stuttgart
3. **Vogel & Plötscher GmbH & Co. KG**, Breisach
4. **Kleiner GmbH Stanztechnik**, Pforzheim
5. **ASG Allweier Systeme GmbH**, Überlingen
6. **Tamagawa Europe GmbH**, Ulm
7. **ARADEx AG**, Lorch
8. **ctc cartech company GmbH**, Böblingen
9. **Zwick GmbH & Co. KG**, Ulm
10. **Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg (ZSW)**, Ulm
11. **FKFS Forschungsinstitut für Kraftfahrwesen und Fahrzeugmotoren Stuttgart FKFS**, Stuttgart
12. **Institut für Elektrische Energiewandlung (IEW) – Uni Stuttgart**, Stuttgart
13. **Lightshape GmbH & Co. KG**, Stuttgart
14. **Cluster Elektromobilität Süd-West**, Stuttgart
15. **Cluster Brennstoffzelle BW**, Stuttgart
16. **Strategiedialog Automobilwirtschaft BW**, Stuttgart
17. **Technische Akademie Schwäbisch Gmünd e.V.**, Schwäbisch Gmünd
18. **GreenIng GmbH & Co. KG**, Leutenbach
19. **EnBW Energie Baden-Württemberg AG**, Karlsruhe
20. **VSF – Experts GmbH**, Mannheim
21. **BridgingIT GmbH**, Mannheim
22. **Airbus Defence and Space GmbH**, Immenstaad
23. **Wirtschaftsförderung Region Stuttgart**, Stuttgart
24. **Drees & Sommer SE**, Stuttgart
25. **Baden-Württemberg International**, Stuttgart
26. **e-mobil BW GmbH – Landesagentur für neue Mobilitätslösungen und Automotive Baden-Württemberg**, Stuttgart

Baden-Württemberg – Expertise in Electric Mobility



Take a look at the sourcebook
www.emobil-in-bw.de/en

e-mobil ^{BW}
State Agency for New Mobility Solutions
and Automotive Baden-Württemberg

Join us at our booth!



Organiser

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🦊 Facing new demands, accepting challenges – no hardship for us. Quite the opposite! The People from Baden-Württemberg are pioneers in electric mobility and have the most complete network of charging stations of a non-city federal state. Moreover, when it comes to the total number of registrations of e-vehicles and digital top issues such as automated driving, we are way up front. The road to the future leads through Baden-Württemberg,

and whoever wants to shape the transformation will find optimal conditions for moving ahead. The new Strategy Dialogue Automotive Industry BW provides an opportunity for all stakeholders to do exactly that and to shape the future of mobility. The challenges faced by the people in automobile land Baden-Württemberg are immense. But – when the going gets tough, the tough get going. It's worth it. www.e-mobilbw.de