Baden-Württemberg: international, innovative, inviting

Baden-Württemberg is Europe’s most innovative region. From this position, we are intertwined with our neighbouring countries, but also the global economic growth regions, like almost no other region in Europe. The foreign trade figures very clearly reveal our state’s integration into the global economy. In 2015, Baden-Württemberg exported goods to the value of 195 billion euros, a new record figure.

At the same time, demand from Baden-Württemberg contributes to growth and employment worldwide: because the state’s imports too reached a historical record in 2015 with 156 billion euros. Especially local industry is a reliable consumer of products from abroad.

Companies in Baden-Württemberg make a decisive contribution to the creation of global supply chains. They are frequently pioneers for new technologies and global trends. They are therefore sought as partners and courted as investors worldwide. With sustainable products and investments in innovative production technologies, they also belong to the most attractive employers in the world.

But it is not only large companies such as Daimler, Porsche, Bosch or SAP that make up the “global players” in Baden-Württemberg. Many of our medium-sized companies and hidden champions have also been globally active for a long time and – often as the global market leader in their field – very successful. International competition only exists...
with new ideas and innovations. Nowhere in Europe do the state and companies invest more in research and development as in Baden-Württemberg.

The Baden-Württemberg Ministry for Economy is a strong partner for companies and their initiatives thanks to numerous funding concepts: whether it be for research or cluster initiatives, technology transfer or new global trends such as digitalisation. This is how we want to promote innovations and future technologies. In all of these areas, we cooperate on an international level and are open to new partnerships. For foreign trade, we also encourage the internationalisation of small and medium-sized companies and support their networking abroad.

New ideas and collaborative projects require an exchange of politics, economy, science and society. Baden-Württemberg therefore actively seeks a direct dialogue with its partners – in your country and your region too, as you can see at this event and in the brochures.

However, the best way is to get to know Baden-Württemberg personally. I would be very pleased to be able to welcome you soon as our guests.

Dr. Nicole Hoffmeister-Kraut MdL
Minister of Economic Affairs, Labour and Housing of the State of Baden-Württemberg
Baden-Württemberg – The German Southwest: Where ideas work.

Baden-Württemberg is one of the most important economic centres in Europe, having become one of the leading investment locations on the continent. Bordering on France, Austria and Switzerland, Baden-Württemberg is situated right at the heart of Europe. Moreover, its outstanding infrastructure makes it an ideal gateway to the markets of the European Union – the world’s economically strongest single market with around 500 million consumers.

In addition to internationally renowned global players such as Daimler, Bosch, SAP, GFT Technologies and Porsche, it is mainly small and medium-sized enterprises that form the backbone of our economy. In 2015, the gross domestic product generated by Baden-Württemberg companies amounted to 460 billion euros, higher than Belgium, Sweden or Austria. What’s more, our federal state is the EU’s top region for innovation. When it comes to its research expenditure, amounting to 4.8 per cent of GDP (2013), Baden-Württemberg also occupies a leading position in Europe. The innovativeness of business and industry is supplemented by a dense network of universities, research institutions and transfer agencies. Many leading German institutions such as the Fraunhofer-Gesellschaft or the Max-Planck-Gesellschaft have substantially more facilities in Baden-Württemberg than in any other state in Germany.

The economic structure of our state is a mixed one. One important mainstay is the mobility sector. Apart from the automotive and aerospace industries, sustainable mobility concepts such as electro-mobility are playing an increasingly important role. Another key sector is mechanical engineering, every third machine made in Germany originates from Baden-Württemberg. Successful companies such as Festo,
Trumpf, Voith and many others were started and have flourished here. Large corporations such as SAP, IBM and Hewlett Packard represent the third main economic segment: information and communication technologies. For the health care sector, the fourth key industry, the conditions in our state are particularly auspicious. Globally important companies such as Aesculap, Paul Hartmann and Karl Storz are at home in Baden-Württemberg.

Environment technology and renewables are our drivers of future economic growth, whereby a quarter of all German environment-specific goods and services are accounted for by enterprises from Baden-Württemberg.

Over 4,000 foreign companies have already decided in favour of Baden-Württemberg. Anyone who invests in the state as a location for their company automatically profits from a growing pool of potential industrial customers, from the highly developed parts-supplier structure, from cooperation with companies that are related or in the same sector, but above all from the know-how and skills of our highly qualified workers. Our state is international, cosmopolitan and tolerant. People from 188 different countries contribute to our innovativeness and cultural charm.

For all questions relating to Baden-Württemberg as a location for science and industry, Baden-Württemberg International (bw-i) is your first point of contact. Go to www.bw-invest.de to find details of the opportunities for cooperation and investment that abound in Baden-Württemberg!
One region. 1000 strengths.

Area
35,741 km² – approx. 10% of Germany

Inhabitants
10.7 million – approx. 13% of Germany

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

The economy
• Gross domestic product (GDP): 460 billion Euros – 15.2% of German GDP
• GDP per inhabitant: 42,745 Euros
• Exports: 195 billion Euros
• Export volume/inhabitant: 18,075 Euros
• Research and development spending (in 2013): 4.8% of GDP (German average: 2.8%)

Leading sectors
• Engineering: 30.2% of total German mechanical engineering industry
• Automotive industry: with almost one third of turnover generated by the whole sector and around 40 per cent of the automotive workforce in Germany Baden-Württemberg is the German “car state”
• Medical technology/measuring and control systems/optics: Baden-Württemberg is market leader in the export of medical technology
• Health care
• Life sciences
• ICT industry
• Research & development: Baden-Württemberg is Europe’s number one in innovation
• Aerospace industry: Baden-Württemberg is one of the most important locations for the European aerospace industry
• Environmental technology and renewables

Data for 2015
INFORMATION ABOUT BADEN-WÜRTTEMBERG
NEMO – New Mobility Design Conference USA 2016

Meet with corporates and start-ups from Baden-Württemberg – The hub of mobility engineering.

Date: November 29, 2016
Time: 9 am to 2 pm
Location: Plug and Play HQ, 440 N. Wolfe Road, Sunnyvale

09.00 a.m. | Registration

Moderation: Cornelia Frank, Head of Department International Business Cooperation and Location Marketing, Baden-Württemberg International (bw-i)

09.30 a.m. | Short Welcome by Plug and Play und Mr. Jürgen Oswald, CEO Baden-Württemberg International

Introductory Talk:
- Cornelia Frank, Head of Department International Business Cooperation and Location Marketing, Baden-Württemberg International (bw-i)
- Veit Haug, Director, Stuttgart Region Economic Development Corporation
- Sasha Karimpour, Managing Director, Plug & Play Germany
- Peter Froeschle, CEO, ARENA2036 e.V.
- Rasheq Zarif, Head of Business Innovation North America, Mercedes-Benz Research & Development North America, Inc.

09.45 a.m. | Keynote: Candace Widdoes, COO Plug and Play Tech Center
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<td>10.00 a.m.</td>
<td>Short Presentations by 5 Start-Ups</td>
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<td>• Michael Raschke, Blickshift (<a href="http://www.blickshift.de">www.blickshift.de</a>)</td>
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<td>• Swiftly, Inc. (<a href="http://www.goswift.tv">www.goswift.tv</a>)</td>
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<td>• Caruma Technologies (<a href="http://www.caruma.tech">www.caruma.tech</a>)</td>
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<td>• HEVO Power (<a href="http://www.hevopower.com">www.hevopower.com</a>)</td>
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<td>10.45 a.m.</td>
<td>Coffee Break</td>
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<td>11.15 a.m.</td>
<td>Keynote: Arwed Niestroj, CEO of Mercedes-Benz Research and Development North America</td>
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<td>11.30 a.m.</td>
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<td>• Dr. Michael Müller, ARGUS Cyber Security</td>
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<td>12.15 p.m.</td>
<td>Networking Opportunity and light lunch</td>
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<td>14.00 p.m.</td>
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Baden-Württemberg International GmbH (bw-i)
Willi-Bleicher-Str. 19
70174 Stuttgart, Germany
Phone +49 711 22787-0
Email info@bw-i.de
Web www.bw-i.de

Participant
Jürgen Oswald, CEO
Cornelia Frank, Head of Department International Economic Cooperation and Location Marketing

Baden-Württemberg International – Your one-stop agency on the way to success.

Baden-Württemberg International (bw-i) is the competence centre of the State of Baden-Württemberg (Germany) for the internationalization, 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.

Our main objectives are:
• Strengthening contacts between foreign and local companies, universities and research institutions
• Supporting the endeavours of Baden-Württemberg companies, universities and research institutions to enter foreign markets
• Positioning Baden-Württemberg as an excellent location for business and science

Our support services include:
• Provision of general information on Baden-Württemberg as a location for business and science, as well as specific location and structural data
• Supply of general information on the legal framework and social insurance
• Identification of suitable business and scientific partners for your company
• Identification of potential sites and organisation of site visits in cooperation with regional and local business-promotion agencies
• Support with administrative procedures
• Gateway to all actors in the field of business promotion and development, such as technology-oriented industrial institutions and sector-specific networks
The highly technologized research campus ARENA2036 is a research factory where the University of Stuttgart, research institutes and companies work jointly on the factory of the future as well as the implementation of multi-material lightweight design with respect to automobile production and Industry 4.0. ARENA2036 will open the research factory building (10,000 sq.m) on the campus of the University of Stuttgart at beginning of 2017. The name “ARENA2036” stands for “Active Research Environment for the Next Generation of Automobiles” and the number 2036 symbolizes the 150th anniversary of the automobile in 2036.
csi entwicklungstechnik GmbH
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74172 Neckarsulm, Germany
Phone  +49 7132 93260
Email  info@csi-online.de
Web  www.csi-online.de

Participants
Jens Maier, CEO
Dr. Tobias Lüdeke, R&D Engineer Innovations
Johannes Schad, Software Developer

csi entwicklungstechnik was founded in 1995 with the clear target to provide our customers the best engineering solutions for their projects. With offices in Neckarsulm, Ingolstadt, Sindelfingen, Munich, Weissach, Wolfsburg and Winterberg we are able to support our partners in the automotive industry with our core competences. In total, more than 550 people are proud members of the csi group.

In detail we do Class-A surfacing, body-structure-development, interior- and exterior module-development, project management and CAE-simulation.

Besides this, with the ongoing changes in the automotive world, we are participating in the creation of the future mobility with our innovative projects: function integrated hybrid material lightweight design, body architecture of vehicles with alternative drivetrains, battery case concepts, trend- and innovation scouting, virtual reality lab, benchmark studio, design-thinking-workshops and a concept shop are part of our activities.

Projects like flexible car interiors, scalable vehicle architectures, structural health monitoring or the future engineering workplace are some of the exciting challenges we are working on today, in order to explore new opportunities for the automotive world.

csi entwicklungstechnik is looking ahead to support our business partners with our know-how in the tasks that come along with the rapid changes in the automotive business.
cyberLAGO e.V. – digital competence network

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Participant  Guido Sondern, CEO

Cluster consisting of 80 companies (mostly SMEs), universities and public institutions focusing on ICT in the Lake of Constance Region (Germany, Switzerland, Austria & Liechtenstein). Local office is situated in Constance. Focus areas are: Digital transformation, Internet of Things (IoT), business acceleration, Data Analysis & Security & mobility.
Future is our product
Sustainable. Personalized. Smart.

Fraunhofer is the largest research organization for applied research in Europe. Its research fields are orientated towards man’s needs: health, safety, communication, mobility, energy and the environment.

With nearly 1,000 employees, Fraunhofer IPA is one of the largest institutes in the Fraunhofer-Gesellschaft. It has an annual budget of over 60 million euros, with more than one third coming from industrial projects.

We see opportunities. We give impulses. We manufacture the future.

The 14 departments of Fraunhofer IPA are supplemented by six business units: Automotive, Machinery and Equipment Industry, Electronics and Microsystems, Energy, Medical Engineering and Biotechnology and Process Industry. This structure enables us to help our practice partners improve their market position as well as support their market entry into new application fields.

Strategic cornerstones “Mass sustainability” and “Mass personalization”

The focus of our strategic cornerstones is on sustainable projects with high industry participation. Mass sustainability aims at minimizing the consumption of resources while maximizing the standard of living. In flagship projects, such as the Ultra-efficiency Factory, Fast Storage BW, the Center for Lightweight Production Technology and the Center Smart Materials, we are putting this concept into practice together with our partners from industry, university research and politics. Mass personalization unites the advantages of economies of scale and scope. In ARENA2036, the research campus for functionally-integrated lightweight automotive construction and in Campus Personalized Production, we are working on ways to manufacture personalized products in batch sizes of one at the same price as mass-produced products.
About Hewlett Packard Enterprise
Hewlett Packard Enterprise (HPE) is an industry-leading services and technology company that enables enterprises all sizes to go further, faster. With the industry’s most comprehensive portfolio, spanning the cloud to the data center to workplace applications, our technology and services help companies around the world make IT more efficient, more productive and more secure. This is key to success on everybody’s digital journey.

As Industries are moving towards digital ecosystems, Hewlett Packard Enterprise is engaging in many initiatives in order to collaboratively work with industry partners on new digital projects that shape the future of how companies act and interact with each other.

Furthermore it is a key in Hewlett Packard Enterprise strategy to collaborate with startups. They provide technologies that can be applied in digital projects. The accelerator Startup Autobahn is an innovation platform to get in touch with such startups and to actively collaborate in joint projects.

HPEs contribution to the ARENA2036 is “Virtual Fort Knox (VFK)”, a solution jointly developed with the research institute Fraunhofer IPA. The solution consists of an IT infrastructure component (Converged Plant Infrastructure – CPI) and a marketplace for services. CPI enables standardized and secure IT operations in a factory. Via the marketplace, participants can offer and consume a wide range of services. This approach enables digital collaboration among participants in the manufacturing and automotive industries within the Industry 4.0 framework.
The IHK-Bildungszentrum Karlsruhe is a further education center and a 100% subsidiary of the CCI Karlsruhe, founded in 1980s. Our main task is to build up skilled workers for the regional economy, especially for people coming out of the vocational training.

Professional competence is central to our work. We provide the qualifications necessary for the successful future for employees and enterprises of the region Karlsruhe.

We offer course ranging from the technical areas to the business oriented, providing continues education including seminars and courses specifically for instructors or trainees as well as numerous branch specific qualifications for areas such as media, event or gastronomy.

We provide with over 300 teachers more than 250 courses for 5,000 participants each year. Our offer ranges from production skills to leadership and innovation.
The Institute for Control Engineering of Machine Tools and Manufacturing Units was established at the University of Stuttgart in 1965. Since 2005 Prof. Dr.-Ing. Alexander Verl is in the position of director and in November 2016 the professorship of Prof. Dr.-Ing. Oliver Riedel was newly established at ISW.

In the course of its 50 year long existence, the research areas as well as the areas of application could be constantly extended. The focus here is on the development and application of control-technological and other computer-aided methods for solving automation tasks. The institute is therefore divided into the eight areas drive control, machine operation, mechatronic engineering, industrial communications, mechanical engineering, simulation, control algorithms and control architectures.

ISW is dealing with concepts and implementations of Industry 4.0 since the last 50 years!

The ISW feels equally committed to fundamental research and the application-oriented development, which results in a successful collaboration with public project promoters as well as with the industry. For students these intensive research activities are useful in several respects: seminar papers and diploma theses are carried out within the context of projects, and the results are directly integrated into the teaching. Complemented by internships and seminars, the students of the University of Stuttgart are offered a multitude of lectures.

The work executed at the institute is constantly described in research reports, technical journals and proceedings. For the purpose of scientific exchange and regular contact, the institute has numerous connections to other scientific institutions in Germany and abroad.
Fraunhofer IAO helps companies and institutions introduce new business models and efficient processes to make their businesses more successful. The interdisciplinary teams are made up of engineers, architects, computer scientists and psychologists, and they combine competencies in product design and work organization with extensive knowledge of the processes involved in creating new products. This applies as much to design and development as it does to production planning. The institute brings together multifaceted experience in simulation and real-time visualization with application expertise dedicated to Human Factors. Activities are targeted at the following focal fields:

- Process optimization for digital engineering in the network-based realization of products
- Development of technologies and applications for virtual reality with emphases on engineering in the manufacturing industry and in the construction sector.
- Human Factors engineering and design of products, HMI and work systems

The human factors department applies methods developed within research projects or customer commissions to optimally adapt products and HMI solutions to the respective needs of human beings. In the process, the scientists always keep an eye on both usability as well as economy.
Plug and Play Tech Center is the world's largest global technology accelerator. Since inception in 2006, our program extends worldwide to 24 countries, providing the necessary resources to succeed in Silicon Valley. With over 350 startups and 100 corporate partners we have created the ultimate startup ecosystem. Companies in our community have raised over $3.5 billion in funding, with success stories including PayPal, Danger, Dropbox, SoundHound, Zoosk and Lending Club.
The Technologiefabrik is an incubator and a 100% subsidiary of the CCI Karlsruhe, founded in 1983. Our main task is to support startups and to make sure that they overcome the hurdles, they are confronted with during the first years of business. Young companies locate to the Technologiefabrik facility for a limited time and lease office space at an affordable rate. During their time with us, they receive active advice and support and they benefit from our range of services. As well, they can profit from our business network and the technology transfer between business and science. Since 1983 we supported over 365 companies, these companies created over 6,500 jobs. The success rate of the companies – during their time in the Technologiefabrik – is 97%.

A further benefit to companies located with us: during the start-up phase, from initial growth to the market establishment stage, employees and managing directors at young companies can receive further training and education. And they can do so directly in-house because we are home of the CCI Education Center, too.
Engineering, economics and management, social and nursing sciences make up the pillars of teaching at Esslingen University of Applied Sciences. Around 6,100 students are enrolled in 11 faculties, offering a total of 26 Bachelor’s and 12 Master’s degree programs.

Close networking of the university with the economy, industrial and commercial organisations ensures a high degree of practical orientation within a distinct curriculum. Students have access to over 50 highly modern laboratories on three campuses carrying out development projects commissioned by industry – interdisciplinary research on leading-edge topics is conducted with an extensive institutional network.

Since 2002 the University of Applied Sciences Esslingen has an extraordinary offer for their students called “Entrepreneurship”. Students and future entrepreneurs and intrapreneurs learn entrepreneurial skills, how to think and act as a manager, how to start a new business and business economics.
The University of Stuttgart is one of the leading technically oriented universities in Germany with global significance. Located centrally in an economically strong region with vast cultural integration, the University sees itself as a hub of university-based, extramural and industrial research. Furthermore, it takes a role as a guarantor of research-based teaching, focused on quality and holism. The University is dedicated to researching and strengthening the interfaces between technology, society and culture in an interdisciplinary manner, defined as the Stuttgart Way. This means integration of engineering, natural sciences, humanities and social sciences based on the fundamentals of cutting-edge research at a disciplinary level.

The Office of the Rectorate functions as the university’s think tank. It gives impulses, embraces ideas from inside as well as outside of the university and produces new concepts. It accompanies their implementation and change processes and identifies unused potential amongst the academic staff of the university. The Office of the Rectorate is responsible for developing strategies and measures that contribute to increasing the attractiveness and competitiveness of the university.
Stuttgart Region Economic Development Corporation (Wirtschaftsförderung Region Stuttgart GmbH, WRS) develops regional business and coordinates all activities related to this. Its strategic tasks include e.g. marketing the region at a national and international level, acquiring companies, investor services, promoting regional technology and setting up innovation networks. WRS collaborates constantly with its partners in regional, national and European networks and has its own representative office at the centre of European politics in Brussels. In order to support young companies and start-ups, WRS provides various offerings from initial advice to attracting capital. The Business Angels Region Stuttgart initiative for instance strengthens young entrepreneurs and start-up companies with capital, networks and knowledge.

From design, architecture and publishing to advertising, games, film or music, the creative industries are of major economic significance to the region. Through networking, marketing the region and training, WRS works to improve the location’s conditions for this key industry and its players, to develop the Stuttgart Region as a creative location and to market it at both a national and international level. There are specialised entities dedicated to the music and film sub-industries in the form of the Pop Office and the Stuttgart Region Film Commission.
Drivers of innovation in mechatronic drive technology

WITTENSTEIN develops customized products, systems and solutions for highly dynamic motion, maximum-precise positioning and smart networking for mechatronic drive technology.

It is our unique capacity for innovation that drives us to further develop the essential technology for electromechanical drive systems and pioneer new areas of application. Our latest example is the revolutionary Galaxie drive system, honored with the prestigious Hermes Award at the 2015 Hannover Trade Show.
We are entering a new era of understanding human behavior. New disruptive technologies in combination with the power of computing will create new possibilities and markets. Blickshift provides products and services for this transformation with a focus on the deep analysis of eye movements and human-machine interaction.

Our primary target markets are the automotive industry, the market research and user experience sector as well as the field of science. Our main product is “Blickshift Analytics”, a revolutionary new data analytics software using cutting-edge results from Visual Analytics research. We also offer consulting services especially for eye tracking analysis and develop customized data analysis solutions.

Blickshift was founded in 2016 by three PhD graduates from the Institute for Visualization and Interactive Systems at the University of Stuttgart in Germany. Our vision is to develop highly innovative software for revolutionary future technologies such as personalized driver assistance systems, automatic driving, human-machine-interaction, and other use cases in the field of complex data analytics. And, as we are strongly connected within the scientific community, we can quickly find efficient solutions for complex problems using newest results from research.
Argus Cyber Security Ltd.
Global HQ: 24 Raoul Wallenberg St., Tel Aviv 6971920, Israel
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Phone   Tel Aviv Office: +972 77 899-5100
         German Office: +49 7021 8668-999
Email    mmueller@argus-sec.com
Web      www.argus-sec.com

Participant | Dr. Michael W. Müller, Managing Director

Argus, the world’s largest, independent automotive cyber security company, provides car manufacturers, their Tier 1 suppliers, and aftermarket connectivity providers with multi-layered, end-to-end protection against cyber attacks. With Argus solutions, automakers help ensure motorists remain safe from cyber attacks, reduce their exposure to cyber attacks and lower their risk of costly cyber recalls.

Built from the ground up for the automotive industry, Argus solutions are ready to embed and future-proof. Bringing decades of experience in both cyber security and automotive, Argus helps the automotive industry bake cyber security across the vehicle ecosystem – from the concept stage through production and all the while that the vehicles remain on the road.

With already 30 000 hours invested in automotive cyber research and 20 automotive pending patents, Argus award winning research team keeps customers up to date with current and future threats and helps ensure that Argus solutions remain on the cutting edge.

Founded in 2013, Argus is headquartered in Tel Aviv, Israel, with offices in Michigan, Silicon Valley, Stuttgart and Tokyo. Visit argus-sec.com to learn more.
Swiftly makes data-driven technology applications to help transit agencies improve their service reliability while reducing operating costs, congestion, and greenhouse gas emissions. Swiftly is working industry leaders and global transportation operators to deploy this technology around the world.
Caruma Technologies

Phone  +1 561 3865905
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Web  www.caruma.tech

Participants

Chris Carson
Chris Keil
Keith Newman
Mike Wong

Caruma Brings Autonomous Car Technology to Any Vehicle – Makes Driving Safer, More Efficient and More Secure

Vision-Based Connected-Car Platform Combines Big Data Analytics, Cloud Computing and In-Vehicle Camera—Making the Internet of Things for Automobiles a Reality

Distracted driving, talking on the phone, texting, eating, reading – these are some of the most common causes of automotive collisions. With over 1.2 billion vehicles on the road today and millions more being added each year, driving can be hazardous to your health.

Caruma Technologies is offering a new technology that combines Computer Vision, Deep Learning and Big Data analytics into a powerful yet easy-to-use vision-based connected car platform.

Caruma’s vision-based connected car platform consists of three key components:

• Caruma Cloud – a smart cloud system where data and video clips are stored and converted into actionable information.
• Caruma App – a mobile and web app for iOS and Android.
• Caruma Cam – an intelligent connected device with dual High Definition (HD) cameras that easily mounts inside any vehicle.

Caruma’s system uses a combination of artificial intelligence and vision technology – advanced machine learning algorithms – to continuously improve over time. With a complete, context2 rich picture, the system can help to improve driver performance and reduce liability risk through driver scoring – a critical tool for coaching purposes and improving driving practices.
FreeWire Technologies, based in San Leandro, California transforms second-life batteries into smart energy storage systems to deliver energy when and where it’s needed – intelligent storage units offering better asset and energy management. We offer mobile solutions for electric vehicle charging and distributed power.

Our first product line, the Mobi Charger Series, comes in both Level 2 AC and Level 3 DC variants and offers similar electric vehicle charging speeds as traditional fixed stations; all while completely disconnected from the grid. Customers in this segment range from corporations using our units for workplace charging to utilities. Our second product line, the Mobi Gen Series, can power just about anything and is a drop-in replacement for diesel or gas generators in many cases. Customers use the Mobi Gen for example to power construction sites as well as to provide quiet power for the entertainment industry. Both products share a similar architecture that uses second-life batteries to achieve substantial capacity at a fraction of the price of new batteries. An intelligent cloud-based platform sits on top to provide operational resources for Mobi Chargers and asset management functions for a network of Mobi Gens.

FreeWire recognizes that our usage of electricity has evolved. Our electrical loads have changed, as have our preferences for energy sources. We need updated energy delivery methods to meet new demands and challenges. FreeWire’s battery systems are creating bridges, giving more control over when and how power is extracted, stored, and delivered.
HEVO's vision is built on creating the global wireless charging standard for electric vehicles (EV) that provides users with the charging experience they are demanding – the ability to simply park and power up. Technology The end-to-end solution consists of four hardware assemblies (inverter, transmitter, receiver, rectifier), the mobile app and cloud. The transmitter, which is surface mounted to the pavement or embedded like a manhole cover, delivers wireless power the receiver which is installed along the vehicle chassis as either an option or retrofit. Once the transmitter and receiver are aligned, the inverter and rectifier form a “handshake” that initiates the transfer of wireless power. Synced through the cloud, the mobile app provides users with the ability to reserve stations, optimally align their vehicle, remotely start and stop the charging process, wirelessly pay their bill, obtain electronic receipts and access charging statistics.

Model HEVO wholesales and license its wireless charging technology directly to EV OEMs, Tier 1 auto suppliers, grid managers, charging infrastructure companies and fleets. The primary manufacturing is outsourced, while HEVO completes the final assembly QAQC, packaging and shipment operations. Auto OEMs and 3rd party installers sell the receiver and rectifier as a vehicle option or retrofit, while distributors sell and install the transmitter and inverter via certified electricians.

Differentiation HEVO will be the first company in the world to commercialize a certified wireless charging technology for electric vehicles. Their products are ready-made for universal compatibility with SAE J2954, UL2750 and OCPP standards for interoperability. With four patents pending, and more to follow, HEVO is ready to manufacture and sell their offerings around the world. Opportunity HEVO is seeking additional investment to commercialize their first product line in 2017, finalize development of their faster charging technologies in 2018 and reach profitability by 2019. For more information, please contact Jeremy McCool (jeremy@teamhevo.com or 912-704-9443).
Vision-based parking monitoring and management systems designed to identify empty parking spaces and monitor traffic in real time. Our indoor and outdoor systems are easy to install and at a fraction of the cost of traditional parking monitoring solutions. Just one of our monitoring modules can cover more than a dozen indoor spots and up to 200 outdoor spots. It enables us to democratize the smart parking solution, empowering not only lot owners and drivers, but also selfdriving cars, cities, navigation apps like Google Maps and Here, cars’ navigation system, merchants and data analytics companies.

For parking lot, we improve its utilization, turnover, and lower management cost. Further, the real-time data enabled dynamic and surge pricing increase its revenue. For drivers, the real-time data provide ease of mind and cut the vacancy search time in half.
CloudCar™ provides the most powerful platform for building next generation connected vehicle experiences. Our cloud based services and content is constantly evolving, ensuring an ever-green experience to your customers. The CloudCar™ platform is distinct in that it offers the OEM: a driver-centric intuitive experience, control of data, rapid deployment of services, and expansion to new geographic regions without requiring firmware updates.
Vinli is a connected car platform company that provides technology products and services for the automotive ecosystem. Our vision is to provide technology platform, hardware, applications and services to both new car makers and existing vehicles, suppliers, dealerships, fleets, service providers, software developers and vehicle owner/operators via an open software platform and api business to business value approach.

We have architected, built and operate a connected IoT transportation cloud platform which processes, manages, and supports programmatic access (api) of vehicle data to developers, automotive service providers, OEM’s, suppliers and a host of automotive related industries (mobility, insurance, mobile operators, fleets, and more). Vinli’s additional core assets include an aftermarket OBD-II LTE WiFi adapter, and comprehensive software toolkit, applications and connected car services all designed to enable integrated vehicle data powered value for our partners.

Vinli technologies are offered to our partners (B2B) to enable their ability to integrate vehicle data to unlock, extend and/or otherwise enhance their market offerings. These audiences include, but are not limited to:

1. Automotive dealerships (Fixed operations, Lot mgmt., etc.)
2. Independent automotive service companies (Loyalty, Connected Services, etc.)
3. Software Developers (Smartphone apps)
4. Fleet service providers (vehicle health monitoring, driver analytics/safety)
5. Mobile operators/Carriers (In-vehicle WiFi)
6. Tier 1 Suppliers (Connected Car ↔ Connected Home, IoT, etc.)
7. Automotive OEM’s (Low cost branded connected services)
8. Insurance providers (UBI)
9. Car owners/drivers (Connected car services, WiFi, etc.)
Tanktwo makes battery packs for applications such as electric cars. Other applications are utility vehicles and standby power, amongst many.

Tanktwo extends the capacity of commercially available chemistries by 20% or more. Pack capacity is easily expanded, Tanktwo String Cells can be replaced on the fly. This is achieved by making the individual cells of the battery pack smart and fast swappable. This makes near-24/7 operation possible and electrification commercially viable for many applications.

The company has 19 high quality patent applications under 5 patent families, of which 6 are already granted. Advanced prototypes exist, and sales is in full swing. Key focus is on industrial high-value applications first, but also automotive OEMs are addressed for longer-term opportunities. The A-series round is expected to open at the end of Q1 2017. Tanktwo has raised approximately $2.5 M.

By making the individual cells smart and swappable, Tanktwo batteries eliminate the need for over-dimensioning. Range is easily restored, by simply replacing the bad cells with new ones, only if and when it is needed. Natural cell price erosion will make capacity restoration even more cost-efficient than up-front over-dimensioning.

Battery pack capacity is fully flexible. In the automotive showcase, this means that a car can have battery capacity to cover typical needs, but can temporarily be iboosted to a 300mile+ range by renting extra cells for the duration of, for example, a road trip. Fleet operators will benefit even more from the cell-swapping which takes less than 3 minutes to complete.

Tanktwo also provides a carrier-grade back-end system for security, analytics, financial clearing and quality assessment enabling the trading of String Cells.
Contact.

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