

The German Southwest: Where ideas work.



Baden-Württemberg

MINISTRY OF ECONOMIC AFFAIRS, LABOUR AND HOUSING



Choosing the right business location plays an important role in any company and it becomes even more important in times of crisis. For example, as a result of the Corona pandemic, medical technology companies from Baden-Württemberg have recently come under the limelight and received much attention worldwide. The pandemic has brought us new challenges, but our state has proven itself again as the pacesetter of technology.

To find ways out of the Corona Crisis and give our economies new momentum, we are banking on innovation and international cooperation.

Baden-Württemberg has a tradition of innovation. It ranks highest in the nation regarding research and development. Even within the EU, Baden-Württemberg is region number 1 in innovation. More than five percent of our gross domestic product is invested in research and development every year.

The Southwest of Germany is not only strong economically, however, it is also a place that is well worth living in, a place with people that are open-minded. Our state offers unique landscapes such as the Black Forest, Lake Constance, the Swabian Alps, as well as many popular cities and towns. When you find out for yourself, we are sure the extensive cultural life, the health spas, and the excellent culinary offers will convince you.

Together with our partners, domestic and abroad, we will overcome the crisis and work towards a better future. We are convinced that you will feel good in Baden-Württemberg.

Dr. Nicole Hoffmeister-Kraut MdL,
Minister of Economic Affairs, Labour and Housing of the State of Baden-Württemberg



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Baden-Württemberg: Know-how for innovative solutions. Especially in times of crisis.

Curiosity, imagination, and the pioneer spirit are tradition in Baden-Württemberg. Towards the end of the 19th century, groundbreaking inventions such as the automobile and the zeppelin made their way from our state out into the world.

These characteristics come out even more in times of crisis. Enterprises from Baden-Württemberg meet challenges, particularly in difficult times, and create new business models together. Shortly after the Corona Crisis started in 2020 for example, Mahle, a supplier to the automobile industry from Stuttgart, began manufacturing protective masks for medical purposes together with Triumph, a manufacturer of underwear. Or J. Wagner GmbH, a manufacturer of devices and machines for surface coating from Markdorf, which converted its paint spraying systems to spraying devices that effectively coat surfaces with disinfectants. Necessity is the mother of invention – it is as true today as it was in the past. The same goes for other new challenges, such as those in the areas of mobility and medicine.

CureVac, a biopharmaceutical company that is developing a new class of transformative drugs on the basis of messenger ribonucleic acid, has obtained approval for its vaccine program for the prevention of SARSCoV-2 infections to be used in clinical tests on people. Over the whole world, there is much hope being placed in this vaccine.

The business start-up Spindiag GmbH, based in Freiburg, has developed a diagnostics platform with which SARS-CoV-2 infections can be verified within a very short time. This very short testing time makes it possible to quickly trace infection chains.

Successful developments in battery technology research or in synthetic fuels, advanced driver assistance systems and even autonomous vehicles, modern business software and IT innovations are all leading to changes across many industries.

When you bank on Baden-Württemberg, you invest in a dynamic and powerful environment and in people with much knowledge, creativity, and dedication. From basic to applied research, Baden-Württemberg is the place for high skills and innovation. The region's universities are among Germany's best. Moreover, there is a dense network of more than 30 business-related research institutions, including the Fraunhofer Society, the German Aeronautics and Space Center (DLR) and the Baden-Württemberg Innovation Alliance.

One of today's greatest challenges is also to preserve Baden-Württemberg's top position in the digital world, where topics as artificial intelligence and robotics are getting more and more important. Baden-Württemberg has taken a lead role in this sector and, with its "Industry Alliance 4.0", is the first region in Europe to facilitate intensive cooperations between major market participants and support them with the right infrastructure (www.i40-bw.de).



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The key industries of Baden-Württemberg.

Our economy is supported by a stable foundation of quality, experience and innovation. This means we can look forward to future growth and strong entrepreneurial commitment – the best conditions for leading the international competition. Cluster initiatives help small and medium-sized businesses, especially, on the road to innovation. To support the continued development and internationalization of cluster initiatives, the Baden-Württemberg economics ministry has established the Baden-Württemberg ClusterAgentur (www.clusterportal-bw.de), whose goal is to drive cluster development in the state's strategic growth sectors.



Already in August 2013, the world's first automotive manufacturer, Mercedes-Benz, sent its S 500 INTELLIGENT DRIVE research vehicle down historic roads to show that automated driving is possible both in the country and the city. Copyright Daimler AG

MOBILITY INDUSTRIES

Baden-Württemberg is home to the giants of mobility: Audi, Bosch, Daimler, EvoBus, Porsche, ZF – more than 100 vehicle manufacturer locations and almost 200 direct supplier facilities. In addition to car, truck and bus production, aerospace technology plays a significant role in our region. Companies from the automotive, energy, and information and communication technology industries work closely on sustain-

able mobility solutions for the future. The coordinated state agency e-mobil BW (www.e-mobilbw.de) was established to respond to issues of electromobility and fuel cell technology.

PROCESS AND PRODUCTION TECHNOLOGY

Baden-Württemberg is one of the leading regions in this area as well because the core industries of machine manufacturing and facility construction are so closely connected to those of electric and electronic systems, optics and precision engineering, IT, metal production and processing, and automation. It is an enormous growth sector that benefits from market potential, a diversified supply structure, and a variety of collaboration options. Over half a million well-educated professionals, many of them specialists, work in this setting. No wonder companies like FESTO, Heidelberger Druckmaschinen, TRUMPF, Voith and many more have grown up here. The state agency Leichtbau BW (www.leichtbau-bw.de) was established to respond to the challenges of lightweight construction.

TIME INDUSTRIES / CULTURE AND CREATIVE INDUSTRY

The innovative technologies and services of the TIME industries – TIME stands for telecommunication, information technology, media and entertainment – are more strongly permeating all areas of life and work. Hewlett Packard Germany, IBM Germany, SAP and many other IT service providers, along with electronics companies like Bosch, Micronas and Sick, have deliberately chosen Baden-Württemberg. This land of poets and thinkers is known for the creativity of its people. This is clear from its wide-ranging book industry – Baden-Württemberg leads Germany in printing and publishing – a diverse media landscape, a lively music industry, with a music quarter in Mannheim that is unique in Europe, and

in vibrant centers for the creative industries. Baden-Württemberg's film and media promotion organization MFG (www.mfg.de) offers countless networking and mediation activities for the creative community.

HEALTHCARE

Baden-Württemberg, as an industrial region, is the largest provider of pharmaceutical and medical technology and the second-largest biotechnology provider in Germany. The health care industry is highly innovative and contributes a major part of Baden-Württembergs domestic product. Nearly 1,000 companies with approximately 100,000 employees generate turnover of roughly 25 billion Euros per year. Baden-Württemberg offers companies in the health care sector a promising environment. Here biotechnology, pharmaceuticals, medical technology, optics, precision mechanics, electronics and electro-technology find just the right conditions for the challenges of the future: a unique research infrastructure, world-class educational institutions and outstandingly educated workers. Altogether, it's a highly attractive business environment in which small, medium-sized and large companies in research and product development can work together with great success. There is a reason why world-renowned companies like Aesculap, Paul Hartmann and Carl Zeiss have made our region their home. The BioLago biotech regions (in the Lake Constance area) Freiburg, Rhein-Neckar-Dreieck, STERN (Stuttgart – Tübingen – Esslingen – Reutlingen – Neckar-Alb) and Ulm support the development of many new companies. Baden-Württemberg's strengths in the health sector include its clinics, its hospitals, and its rehabilitation and social security institutions. The state enterprise BIOPRO (www.bio-pro.de) represents Baden-Württemberg's biotechnology and life sciences sites.

ENVIRONMENTAL TECHNOLOGY, RENEWABLE ENERGY AND RESOURCE EFFICIENCY

For Baden-Württemberg, resource efficiency is a main policy theme – sustainability and resource conservation are core criteria in government and administrative decisions. These high standards and a distinctive eco-consciousness among the populace provide the impetus for very forward-looking environmental technology. Key players in bio-technology, chemistry, optics, precision mechanics, electronics, electro-technology and machine and systems engineering find a dynamic environment in Baden-Württemberg among research institutes, highly specialized service companies and ambitious collaborations. Naturally, companies in Baden-Württemberg always have thorough solutions to issues surrounding water supplies, wastewater and refuse removal and air pollution control. Renewable energy, combined with strategies and technologies for energy efficiency, are in ever greater demand throughout the world. The state enterprise Umwelttechnik BW (www.umwelttechnik-bw.de) was established especially to deal with issues of environmental technology.

SERVICES

A successful industrial region like Baden-Württemberg provides plenty of impetus for business-related services. With high-quality, technology-oriented offerings, this sector is a dynamic partner to industry and an important factor in increasing its productivity and competitiveness.

Baden-Württemberg: Networked worldwide.

In Baden-Württemberg, we look outward to the world. The result is that exports make up about 40 percent of the region's gross domestic product – more than in any other German state. The state helps mid-sized companies tap into foreign markets through many kinds of support. This includes joint booths to lead to contacts in markets abroad. These activities are supplemented by digital services. Our companies have access to contact points abroad and many consulting, advising, and informational offerings. Companies from Baden-Württemberg are powerful partners all over the globe in business, production and technological

collaboration. Partnerships have grown with regions throughout the world. Germany's worldwide industrial and business centers (GermanCentres) were established on the initiative of Baden-Württemberg. The network now includes German Centres in Mexico City, Moscow, Beijing, Shanghai, Singapore and Taicang. They are largely supported by the Landesbank Baden-Württemberg. Furthermore there are representative offices abroad in Brazil, China, India, Japan, South Africa and the USA. The foreign trade forum "GlobalConnect" has also been established and takes place every two years at the Stuttgart Exhibition Center.

Baden-Württemberg: Discover your opportunities for the future.

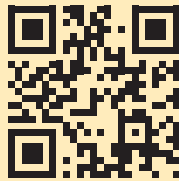
BADEN-WÜRTTEMBERG INTERNATIONAL (BW-I)

Baden-Württemberg International (bw-i) is the central contact in the region for investors and companies looking for places to locate and partners for collaboration in Baden-Württemberg.

Baden-Württemberg International (bw-i)
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STEINBEIS EUROPE CENTER

The Steinbeis Europe Center was founded in 1990 with the goal of making it easier for small and mid-sized companies to make their way to Brussels for EU research funding. Visit www.steinbeis-europa.de

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L-Bank, Baden-Württemberg's investment leader, informs potential investors about the state's economic structure, funding instruments, business taxation, and founding and takeover possibilities in Baden-Württemberg. Visit www.l-bank.de/investitionsfuehrer

Baden-Württemberg: A formidable location.



Since 1880, the company founded by Margarete Steiff has made its home in Baden-Württemberg. Copyright Margarete Steiff GmbH

LOW UNEMPLOYMENT IN GERMANY

Compared to other German states, Baden-Württemberg has had low unemployment for years. In 2019, unemployment in Baden-Württemberg averaged just 3.2 percent. After Bavaria (2.8 percent) this is the nation's lowest unemployment rate. Nationally, the rate was 5.0 percent. Along with Bavaria, Baden-Württemberg had the country's lowest youth unemployment at just 2.5 percent, compared to Germany as a whole at 4.4 percent.

THE MOST PATENTS

Baden-Württemberg leads Germany and Europe in patents. In 2019, the state saw 138 patent applications per 100,000 residents (Bavaria: 108). The average for Germany as a whole was 56 patents.

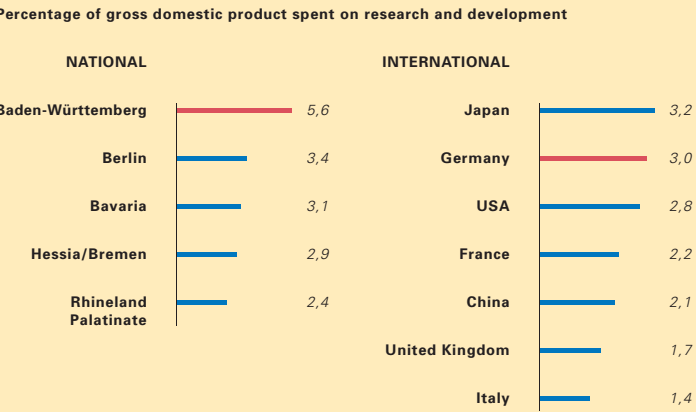
GERMANY'S NUMBER-ONE EXPORTER

With an export volume of 205 billions of euros in 2019 Baden-Württemberg exported per resident €18,500 worth of goods throughout the world (Germany as a whole: €16,000). The export rate – exports' portion of gross domestic product – is 39.1 percent, showing how actively the state exports (for all German states: 29.4 percent). Baden-Württemberg's supplier firms are some of the strongest in the world.

BADEN-WÜRTTEMBERG INVESTS THE MOST IN RESEARCH AND DEVELOPMENT

In 2017 Baden-Württemberg invested about 28 billions of euros in research and development. Measured in terms of gross domestic product, this is 5.6 percent (Germany: 3 percent). Baden-Württemberg had the highest research intensity among all German states in 2017. Even internationally, Baden-Württemberg is among the world's leaders. Moreover, research by the state statistical office shows that Baden-Württemberg has been the EU's leading region for innovation for years.

RESEARCH INTENSITY IN SELECTED REGIONS (2017)



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Baden-Württemberg: Facts and Figures.



*With its picturesque old town, Heidelberg is known worldwide not only for its castle, but also for Germany's oldest university (founded in 1386).
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AREA & POPULATION

- 35.674 km² — 10 percent of Germany
- 11 million — about 13 percent of Germany

GROSS DOMESTIC PRODUCT

- €524 billion — 15.12 percent of Germany,
GDP per resident: €47,290 (2019)

EXPORT VOLUME

- €205 billion (2019)

BADEN-WÜRTTEMBERG LEADS IN:

- Mechanical engineering
- Automotive and sustainable mobility
- Aerospace
- Healthcare and medical technology
- Life sciences
- Information and communication technology
- Environmental technology and renewable energy
- Culture and creative industries

LARGE CITIES

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

UNIVERSITIES

- 9 universities, including 4 universities of excellence
- 6 colleges of education
- 31 universities for applied sciences
- Baden-Württemberg Cooperative State University with 14 locations
- 8 universities of art and music, the Film Academy, and the University of Popular Music and Music Business
- more than 25 state-recognised private colleges, including three universities for ecclesiastical music and two private universities

BUSINESS-RELATED RESEARCH AND TRANSFER INSTITUTES

- 18 facilities of the Fraunhofer Society
- 7 institutes of the German Aeronautics and Space Center (DLR)
- 13 institutes of the Baden-Württemberg Innovation Alliance
- over 500 Steinbeis transfer centers

OTHER RESEARCH INSTITUTES

- 13 Max Planck Institutes
- 5 Helmholtz Research Centers
- 7 Leibniz Institutes



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