



# Never Stop Exploring. Satellite Navigation in the Heart of Europe.

### Strong Bavaria. Strong Industry.

**Satellite navigation** is the industry of tomorrow. In Bavaria more than 150 companies generate more than € 350 million in revenues with satellite navigation and its applications.

High ranking companies such as Airbus Defence & Space, IABG, Siemens, OHB System, T-Systems, Diehl, ESG, Rohde & Schwarz, IFEN, Eureka and GPP are just some of the potential clients and partners new enterprises might be looking for. Brought together by Bavarian clusters and networks the ways of mutual benefits are various and vitally important to anyone involved in satellite navigation.

To support the development, production, marketing and sale of products Bavaria offers perfect conditions: An innovative research environment, top infrastructure, highly qualified staff, reliable suppliers and a wide selection of potential buyers among application-oriented technology enterprises.

This is coupled with an innovation-friendly economic policy offering extensive development programmes and initiatives – like, for example, the Cluster Initiative or Bavarian funding for aerospace applications. Furthermore, the strategy programme of the Bavarian Ministry of Economic Affairs supports the industry and proves once again that the State of Bavaria is the driving force within this sector – in Germany and in Europe. Next to this, the initiative Digital Bavaria is delivering a new level of quality in the policies that make Bavaria a great place to do business. It is strengthening the competitivness of Bavarian companies in the international competition for digital innovation in the future.



## Strong Initiatives. Strong Partners.

The **Network "Satellite Navigation Berchtesgadener Land"**, a cross-border South-East Bavarian/Austrian network for innovative navigation solutions, is a joint partnership of small and mediumsized enterprises and scientific institutions. In collaboration with users, the partners design and implement innovative navigation solutions. The aim is to provide tomorrow's markets with ideas in the fields of security and emergency services, mobility and transport logistics, public health and tourism as well as energy and environment.

→ www.satnav-bgl.eu

The Galileo Test and Development Environment (GATE) is located in Berchtesgadener Land in the South-East of Bavaria. It is a unique ground based realistic test bed for Galileo applications. Initiated by DLR, GATE offers receiver manufacturers and application developers various opportunities to test their ideas and conduct experiments. → www.gate-testbed.com

The **Anwendungszentrum GmbH Oberpfaffenhofen (AZO)** drives innovation and incubation in the commercial use of space technologies and infrastructures. Through idea competitions in satellite navigation (European Satellite Navigation Competition) and earth observation (Copernicus Masters) AZO fosters the creation of innovative products, services and businesses for these emerging markets. The underlying business concepts are realised in the form of companies.

- → www.anwendungszentrum.de
- → www.galileo-masters.eu
- → www.copernicus-masters.com

The **ESA BIC Bavaria**, the Business Incubation Centre of the European Space Agency (ESA), supports startups seeking to realize their business ideas by making commercial use of space technology in other areas of the economy. Each of the three ESA BIC Bavaria offices – in Oberpfaffenhofen, Nuremberg and Berchtesgadener Land – provides financial support and technical assistance together with first-class partners. Furthermore, entrepreneurs benefit from the ESA BIC network of potential partners throughout Europe. → www.esa-bic.de

## Strong Networks. Strong Clusters.

Satellite navigation and its applications as well as Copernicus, the European earth observation programme, are two major topics of the **Bavarian aerospace cluster** managed by **bavAIRia e.V.** 

bavAlRia e.V. is in charge of organizing the cluster as well as promoting and connecting the Bavarian expertise as part of the Bavarian Cluster Initiative. Through networking, location marketing, consultancy and other services bavAlRia e.V. makes the Bavarian aerospace cluster more visible on the global stage.

By accompanying and carrying out dedicated national and international projects and cooperations the cluster deals with the development of innovative applications and services based on satellite navigation, earth observation (e.g. Copernicus) and satellite communication. With a main focus on the European Satellite Navigation System "Galileo" bavAIRia provides various user forums dealing with the whole value chain of several sectors such as tourism or transport and logistics. Furthermore, bavAIRia e.V. is identifying key future topics appropriate in generating innovation. In the EMMIA initiative, for example, it is bringing together policy makers and industry representatives at European level with the aim of developing more sustainable solutions in the field of mobility supported by mobile services.

Next to this, the **Bavarian cluster policy** also supports branches and technologies with close connections to the satellite navigation industry. These include, for example, new materials, information & communication technologies, mechatronics & automation, sensor technologies or logistics.

→ www.bavAlRia.net

→ www.cluster-bayern.de



#### Strong Research. Strong Institutes.

The **German Aerospace Center (DLR)** is situated right next to the special-purpose airport in Oberpfaffenhofen. It operates eight scientific institutes and facilities such as the Institute of Communications and Navigation, the German Space Operations Centre and – of course – the Galileo Control Centre, which is monitoring the immense European satellite navigation system. More than that, DLR is significantly involved in Copernicus, another joint project of the European Space Agency (ESA) and the European Commission. As a recent infrastructure project DLR also contributes to EDRS (European Data Relay System).

→ www.dlr.de

The **Fraunhofer Institute of Integrated Circuits** and the **Center for Telematics of the University of Würzburg** are two main research institutions for applied sciences of satellite navigation and indispensable partners for any R&D project in this sector.

→ www.iis.fraunhofer.de

→ www.telematik-zentrum.de

Bavaria is proud of its **modern and competitive educational environment** with eight universities offering state-of-the-art study courses related to the aerospace sector. A recent educational initiative is the faculty **Munich Aerospace**, a cooperation of the Technical University Munich, the University of the German Armed Forces, DLR and Bauhaus Luftfahrt. The main objective of Munich Aerospace is to create a joint research, development and academic center for the purpose of pooling key competencies in the areas of aeronautics and space.

→ www.munich-aerospace.de

The **Munich Satellite Navigation Summit**, organized by the Institute of Space Technology and Space Applications of the University of the German Armed Forces, is a major annual conference. It has been established as the European and international conference with global impact featuring high-ranking worldwide speakers from industry, science and governments dealing with the directions of satellite navigation now and in the future.

→ www.munich-satellite-navigation-summit.org

#### Invest in Bavaria. The agency that pulls the strings.

Invest in Bavaria is the single-stop business promotion agency of the State of Bavaria to handle all projects by international investors to set up new or expand existing businesses in Bavaria. Our aim is to guide and support companies to make the most of Bavaria's excellent location factors and benefits. Our international team has access to technology networks and personal contacts to research institutes and enterprises. Therefore, we are able to provide essential information on business support, links to networks and possible collaboration partners, tailored proposals for selection of a location and other information on the State of Bavaria and its location factors. Of course, our services are confidential and free of charge.

#### Get in touch with us!

#### <u>Contact</u>

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