



Kingdom of the Netherlands

# Artificial Intelligence in Southern Germany

Digitalisation transforms economies and societies worldwide. One of the main technologies within the digitalisation is Artificial Intelligence (AI). The implementation of AI is increasing, while more and more organizations see the benefits. AI is applied in multiple areas like industry, automotive, healthcare and many more. This report gives an overview of AI in Bavaria and Baden-Württemberg looking at government strategies, knowledge institutes, businesses, and the most important applications.

## State governments

The German Federal Government (BMWi & BMBF) has published an [AI Strategy](#) with investment plans for the whole country. Germany of course has a focus on AI in German Industry. Besides these national strategies and investments, the states of Germany can make their own AI strategies. When it comes to 'AI & industry' Bavaria and Baden-Württemberg are the most important federal states and therefore have set up their own digitalization strategies.

### Bavaria

The Bavarian state government supports AI development in Bavaria with over 5.5 billion euros, with the [Hightech Agenda](#) and the [Digitalplan](#). A major point of the strategy are the key fields of technologies and applications. Bayern sees AI as a key technology that transforms almost all sectors. In the future, AI will be a decisive technology in mobility, medical diagnostics, energy supply, logistics, and cyber security.

Bavaria wants to become the number one location for AI. To achieve this, the Bavarian government set up the AI network [baiosphere](#) to drive innovations in AI and build a world-class technology ecosystem within Bavaria. On the website you can find a great overview of [events](#) and institutes in Bavaria.

### Baden-Württemberg

The [digital.LÄND](#) strategy of Baden Württemberg emphasizes that it wants to become the world's top region in digitalization, especially in the area of AI.

The goal of Baden-Württemberg is to create a unique ecosystem for AI. Baden-Württemberg believes they have their world-renowned companies and highly innovative SME's have outstanding competencies in the application of AI, especially in mechanical and plant engineering, the

manufacturing industry, the automotive sector, and the health industry.

Baden-Württemberg created [IPAI](#) to connect the local economy, Germany and Europe to withstand global competition by supporting start-ups, SMEs, companies, but also the public sector as well as research and science.

## AI institutes and associations

The following are some of the most important institutes and associations in Southern Germany:

- [The German Research Centre for Artificial Intelligence \(DFKI\)](#) is the leading research centre in Germany when it comes to AI. DFKI focusses on [research topics](#) like, autonomous systems, robotics, machine learning, sensors & networks, and a few more.
- [appliedAI](#) is an enabler and innovator for the application of leading, trusted AI technology in Europe. With a large network of companies, startups and scientific institutions, appliedAI supports companies in the introduction and value-added use of AI in all business processes.
- [Cyber Valley](#) is a research cooperation supported by Baden-Württemberg which links international key players from different fields to concentrate their research in the area of AI. The focus is mainly on robotics, machine learning, and computer vision.
- [Acatech](#), National Academy of Science and Engineering, is the coordinator of the national platform for AI: "[Lernende Systeme](#)".
- [Bayern Innovativ](#) is a neutral institution of the Free State of Bavaria. It pools relevant expert knowledge especially for small and medium-sized enterprises, so they can successfully implement their innovations.
- [Allianz Industrie 4.0](#) is a network organisation that helps SME's in Baden-Württemberg digitalise.
- [VDMA](#) is the largest industry association in Europe. for the mechanical engineering industry. To support their members, VDMA has an [AI landing page](#) with information regarding this topic.

## Application fields

The digitalisation affects nearly every industry. This also includes the developments regarding AI. The application of AI can be seen across the different

sectors at various businesses. In Southern Germany, the main areas of application are automotive (mobility), health, and production.

### European initiatives

- **VDI** represents the interest of engineers and offers a lot of sector specific **information** on AI
- **GAIA-X** is an ambitious and timely project which will create an efficient, secure, distributed, and sovereign European data infrastructure in dialogue between state, industry, and research. The Netherlands are also involved in this project.
- **Manufacturing-X** is an initiative to digitalize supply chains in the industry
- **ELLIS** the European Laboratory for Learning and Intelligent Systems - is a pan-European AI network of excellence which focuses on fundamental science, technical innovation and societal impact.
- **EU AI Act** The use of artificial intelligence in the EU will be regulated by the AI Act, the world's first comprehensive AI law.

### Important links

- This **map** contains all companies, universities, institutes and research centres involved with AI in Germany.
- **EU AI Startup Landscape**
- Publications on AI in different sectors:
  - **multiple studies by Acatech**
  - **VDI publications** on AI
- **AI & production network Augsburg University**

### Events

For information on or an overview of future AI events in Southern Germany please contact [mun-ea@minbuza.nl](mailto:mun-ea@minbuza.nl).

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