



**BAYHOST**

Bavarian Academic Center for Central, Eastern and Southeastern Europe

# The system of higher education and science in Bavaria

## Mission, expertise and services of BAYHOST

# Bavaria

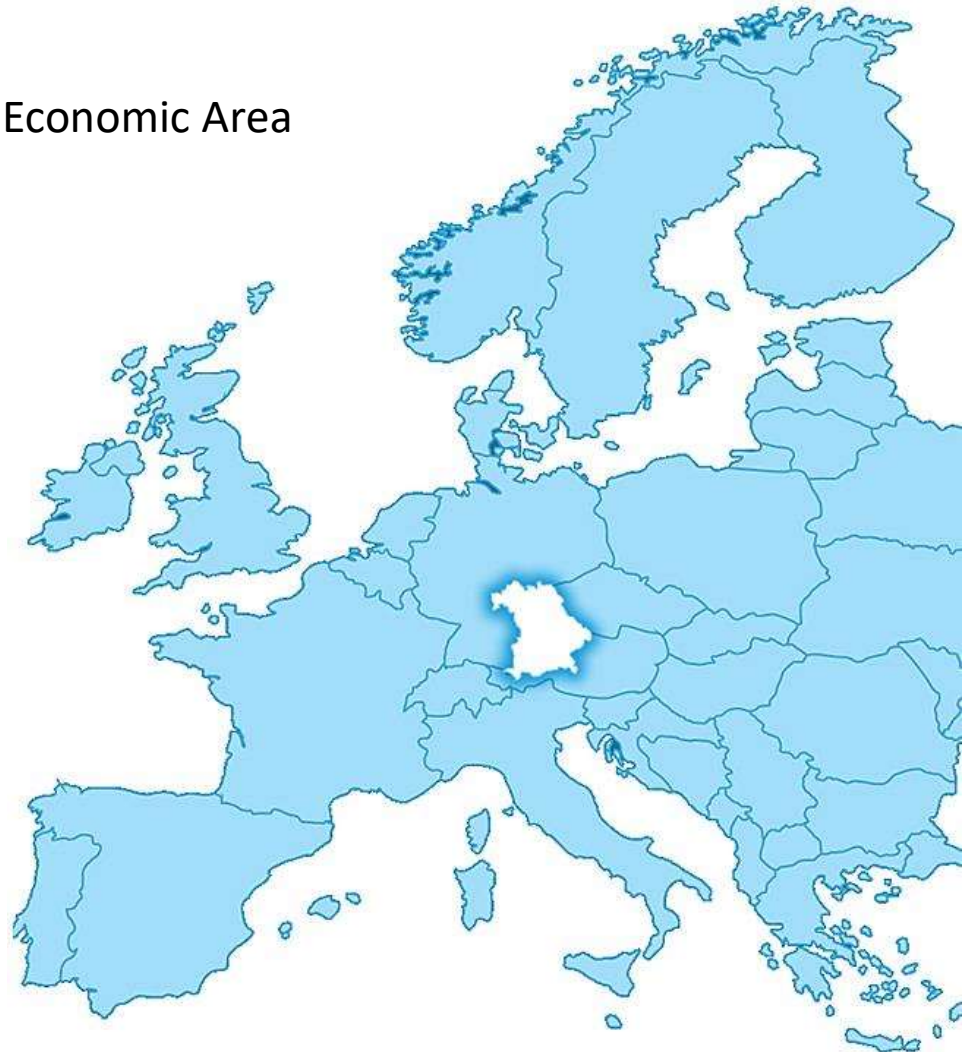
**Location:** in the heart of the European Economic Area

**Area:**  $\approx 70\,000\text{ km}^2$   
(Switzerland:  $41\,000\text{ km}^2$ )

**Population:** 13.1 million  
(Germany 83.1 million)

**GDP 2019 (€ | billion):** 633  
(Germany 3436)

**Bavarian budget for science,  
research and the arts:**  $\approx \text{€ } 8.25\text{ billion}$



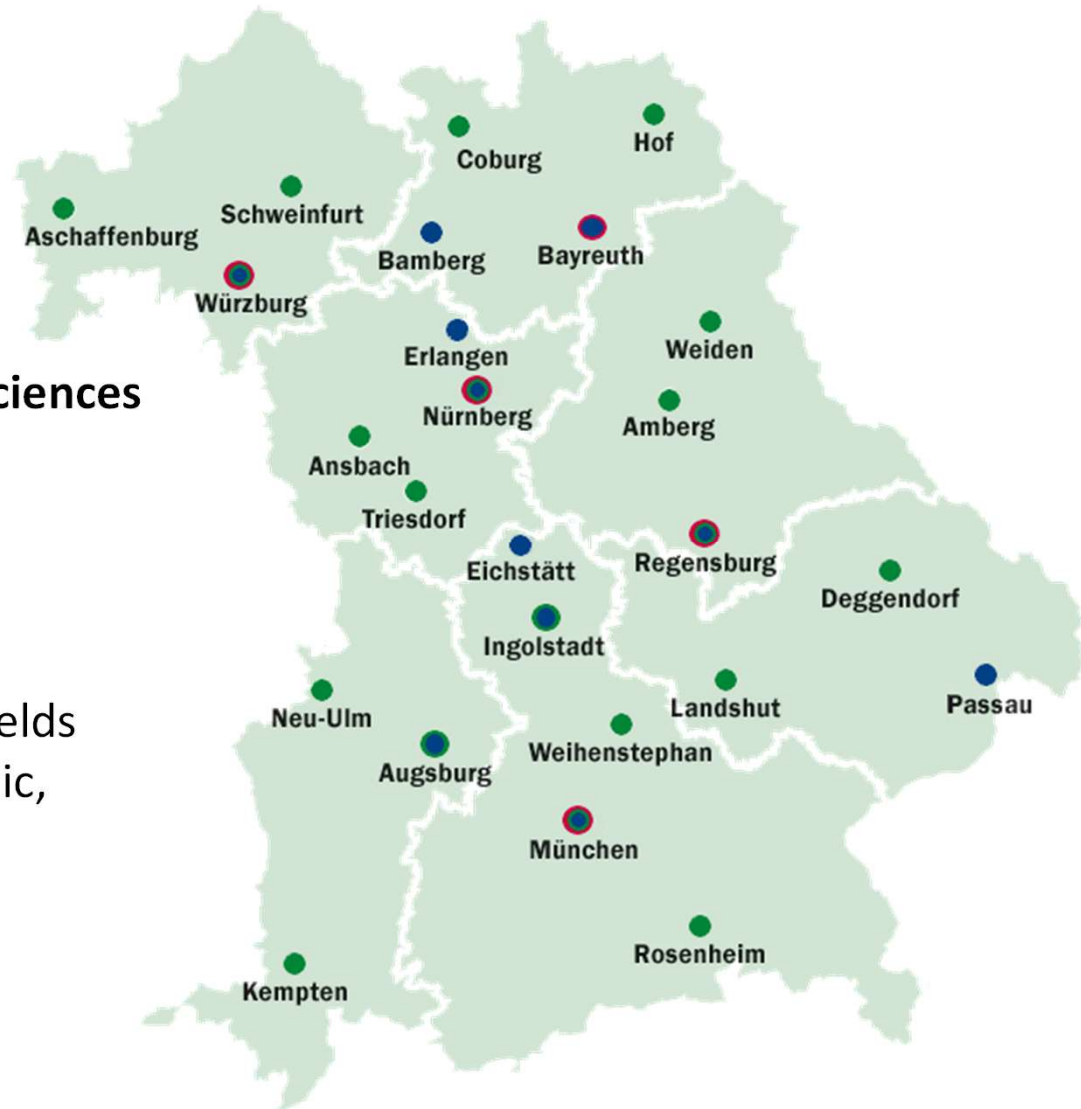
# Bavarian companies

8 out of 30 German DAX Companies are based in Bavaria:



# Bavarian Universities

- **10 Research Universities**  
→ focus on research and academic education
- **19 Universities of Applied Sciences**  
→ application-oriented education and research
- **6 Universities of Arts**  
→ Academic education in fields like performing arts, music, film and dramatic arts



# Initiatives towards Excellence

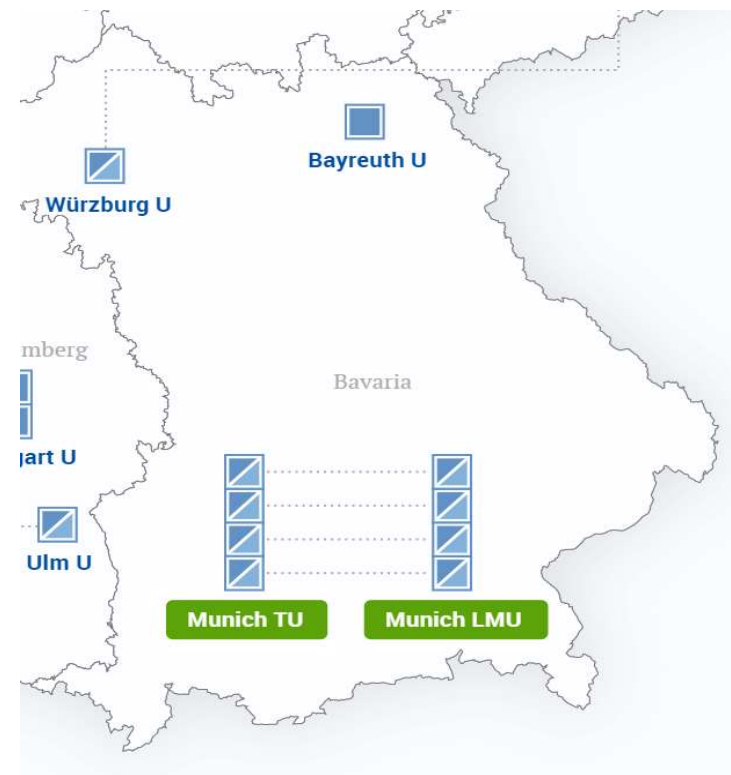
Excellent research at Bavarian universities benefits from federal and state funding by the **German Excellence Strategy**:

## ❖ 2 Universities of Excellence

Strengthening universities as individual institutions or as university consortia in the long term and further developing their leading international role on the basis of successful Clusters of Excellence.

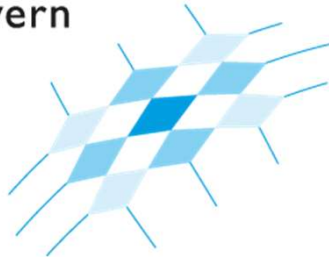
## ❖ 6 Clusters of Excellence

Project-based funding in internationally competitive fields of research at universities or university consortia.



# Initiatives towards Excellence

Elite**netz**werk  
Bayern



**Bavarian network of high potentials covering** all academic levels from bachelor students to post-doc researchers.

... **offers** best support possible to exceptionally talented students and young researchers from all over the world at Bavarian universities through funding programmes, enhanced training and mentoring.

... **includes** elite graduate programmes, international doctorate programmes and international junior research groups.

... the members of the Elite Network of Bavaria are united by a shared commitment to act responsibly in shaping the world of tomorrow.

# Higher education



- ❖ Tuition is free of charge.
- ❖ Institutes of higher education (HEIs) act as autonomous entities (e.g. curricula, exams, appointment of professors).
- ❖ Courses are regularly evaluated by students to ensure continuous quality improvement → Positive results indicate a high level of student satisfaction.
- ❖ Most foreign degrees are recognized.
- ❖ Most study programmes adopt the Bologna structure:
  - 3-year Bachelor programme
  - 2-year Master programme
- ❖ International PhD programmes; large number of Bachelor and Master programmes taught in English.

# Research at Universities



- ❖ Excellent research at the universities is integrated into higher education.
- ❖ Researchers of different HEIs and their non-university partners cooperate in interdisciplinary Research Associations dedicated to selected topics of highest relevance for the future.
- ❖ Regular publications in highly ranked journals.
- ❖ Doctoral degrees can be completed:
  - via the individual doctoral supervision scheme
  - via structured (international) doctoral programs
  - working as a research associate at the chair of the supervising professor
  - within a joint project of a university and a university of applied sciences or a company



# Non-university research institutes in Bavaria



## ❖ **13 Max Planck Institutes**

→ e.g. MPI of Quantum Optics, MPI for Extraterrestrial Physics, MPI for Ornithology, MPI for Social Law and Social Policy

## ❖ **3 Helmholtz Centers**

→ e.g. German Research Center for Environmental Health

## ❖ **7 Leibniz Institutes**

→ e.g. LI for East and Southeast European Studies, LI for Educational Trajectories

## ❖ **9 Institutes of the Fraunhofer Society**

→ e.g. FI for Cognitive Systems, FI for Silicate Research, FI for Integrated Systems and Device Technology

## ❖ **Further research institutes**

# Research policy: Priorities in Bavaria

- ❖ Health and Life Sciences
- ❖ Humanities, Society, Economy, Law
- ❖ Materials Science and Nanotechnology
- ❖ Digitalization
- ❖ Earth, Energy and Environment
- ❖ Mobility, Automotive



# Knowledge & Technology Transfer



- ❖ Applied research and development are conducted in close cooperation with businesses, schools, hospitals, museums, state archives and other organizations.
- ❖ Specialized university departments provide consulting for young entrepreneurs. This results in lively start-up scenes at the HEIs.
- ❖ High share of third-party funding (e.g. research foundations, state funding, EU, business).
- ❖ The **Bavarian Research and Innovation Agency** offers integrated counseling and support for HEIs, companies and their international partners on funding programmes of the EU, the Federal Republic of Germany and the Free State of Bavaria.



# The Bavarian Funding Programme for the Initiation of International Projects (BayIntAn)

...**provides assistance** for establishing and strengthening the **scientific cooperation** between scientists at Bavarian state and state-supported non-state universities and international research institutes.

...**is financed** by Bavaria's State Ministry of Science and the Arts.

...is based on **partial financing**. The participating organizations must therefore ensure that additional project-related expenses can be borne by the requesting organization.

**The following expenditures can be subsidized:**

- ❖ Travel expenses to and from the location of the project partner.
- ❖ The stay of Bavarian scientists belonging to the project team at the project partner's premises.
- ❖ Travel expenses from international project partners to the German project location can also be financed (in exceptional cases).

# International cooperation

## Exchange in research and teaching

- ❖ **Bavarian Funding Programme for the Initiation of International Projects**
- ❖ International PhD programmes
- ❖ Large number of bachelor and master programmes taught in English

15% of all university students in Bavaria come from abroad



## Academic cooperation with Slovenia

- ❖ 27 agreements of cooperation with institutes of higher education in Slovenia
- ❖ 37 HORIZON 2020 projects in fields like digitalization (e.g. in industrial production and agriculture), renewable energy and energy efficiency, nanotechnology, advanced materials, health research and sustainable economy



# BAYHOST...



... **promotes** academic exchange between Bavaria and countries in Central, Eastern, and Southeastern Europe.

... **is** an institution of all Bavarian universities (11), universities of applied sciences (19) and art academies (6).

... **supports** Bavarian universities and universities of applied science by enhancing their collaboration with academic organizations in CEE countries and by establishing new partnerships.

# BAYHOST: Mission

## **Initiating academic partnerships**

- ❖ BAYHOST supports research cooperation.
- ❖ BAYHOST facilitates the exchange of guest lecturers, and researchers.
- ❖ BAYHOST assists with recruiting highly qualified academics for exchange programs.

## **Building and maintaining a network**

- ❖ BAYHOST consists of a network of scientists and researchers from academic institutions throughout Bavaria and CEE countries thus providing opportunities for academic exchange and cooperation.

## **Providing expertise in languages and intercultural affairs**

- ❖ BAYHOST is the Bavarian contact point for intercultural expertise about CEE countries.

# BAYHOST: Selected services

## **Supporting academic exchange**

- ❖ BAYHOST supplies information over projects, collaborations and expertise from Bavarian universities and universities of applied science with the CEE countries.
- ❖ BAYHOST uses its database to contact potential cooperation partners.
- ❖ Organizing exchange forums for researchers and academic faculty

## **Supporting student and graduate mobility to/from Bavaria and the CEE countries**

- ❖ Scholarship programmes
- ❖ Assistance in finding internship opportunities in a range of fields.
- ❖ Mobility grants for students and young researchers (in both directions)



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