

SHAPING A

SEMICONDUCTOR ECOSYSTEM

**Jürgen Frickinger**

Head of Bavarian Chips Alliance | **Bayern Innovativ GmbH**

## The Bavarian Chips Alliance is a key pillar ... ... in a strong Bavarian Semiconductor Ecosystem





## Agency for

- Innovation & funding
- Technology & knowledge transfer

## Founded in **1995**

- „Offensive Zukunft Bayern“
- Nuremberg, Munich, Augsburg

## **300+** Employees

- Experts for innovation
- Industry and branch expertise

## **32.000** Clients

- Business, science and politics
- Bavaria, Germany, international

- **ORIENTATION**

We give **high-tech and deep-tech** in Bavaria and Germany direction and momentum – by providing information, building expertise and connecting researchers with users.

- **NETWORK**

We are architects of Bavarian, national and international innovation networks – by connecting business, science and politics across all **future technologies**.

- **SERVICE**

We are the **partner for innovation** in every phase of the innovation process – by advising and supporting researchers, developers and entrepreneurs throughout all process stages.

# INNOVATION NETWORKS

## HEALTH

- AI-based prevention, diagnostics and therapy
- Robotics & neurotechnology
- Healthcare infrastructure, interoperability

## MOBILITY

- Automated & connected mobility
- Software-defined vehicle
- Climate-neutral mobility  
E-drive, grid

## ENERGY & CONSTRUCTION

- Fusion
- Energy storage
- Carbon management
- Automation & robotics in construction

## MATERIAL

- High-performance materials
- Materials for energy systems
- Digital materials development
- Circularity, substitution & bio-based materials

## PRODUCTION

- Physical AI & robotics
- Digital factory & data
- Resilient manufacturing
- Agritech & digital agriculture

## DIGITALIZATION

- Communication & networks
- Semiconductors & electronics
- Quantum technology
- Data ecosystems

## SECURITY

- UxS (Uncrewed Systems)
- Military Space & Robotics
- Missiles & Munitions
- Civil & Cyber Protection

# INNOVATION SERVICES

## FUNDING & CONSULTING

- Funding consultancy
- Start-up consultancy
- Orientation advice
- Expert consulting (technologies, markets)

## PROJECT SPONSOR

- Technology funding
- Project identification and definition
- Funding project management
- Post-funding support

## INNOVATION MANAGEMENT

- Technology transfer in the innovation ecosystem
- Trend and technology management & analytics
- Innovation methods & Product design
- Coaching & Training

## PATENTS & CE

- Advice and information on IP rights
- Patent research and IP monitoring
- Patent-based analyses
- Standards and CE consultancy

## EUROPE AND INTERNATIONAL

- Cross-border technology transfer
- Technology-oriented cooperation initiation
- International innovation funding
- Competitiveness and capacity building

## WE CONNECT THE INNOVATION ECOSYSTEM TO FORM A THINKTANK NETWORK FOR BAVARIA



8 Funding & consultancy organizations

31 Clusters

16 Chambers

55 Universities and colleges

56 Non-university research institutions

37 Transfer offices

78 Technology and start-up centers

52 Technology transfer centers

# The Bavarian Chips Alliance is connected ...

... with experts from Bavarian clusters and networks

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## Selection of AI Ecosystem

- 1 TUM
- 2 Fraunhofer
- 3 fortiss
- 4 HELMHOLTZ GEMEINSCHAFT
- 5 MAX PLANCK
- 6 Fraunhofer IPA
- 7 Microsoft
- 8 IBM
- 9 FUJITSU
- 10 Google
- and many more

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## Chip Design and Semiconductor Ecosystem

- 1 Intel
- 2 Fraunhofer IPA
- 3 Fraunhofer
- 4 HM\*
- 5 NVIDIA
- 6 Qualcomm
- 7 Apple
- 8 BROADCOM\*
- 9 Infineon
- 10 SAMSUNG
- 11 intel
- 12 NXP

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## Packaging and Assembly

- 1 Infineon
- 2 MICRO SYSTEMS ENGINEERING
- 3 Fraunhofer IPA
- 4 ERS
- 5 SOSS Microtec

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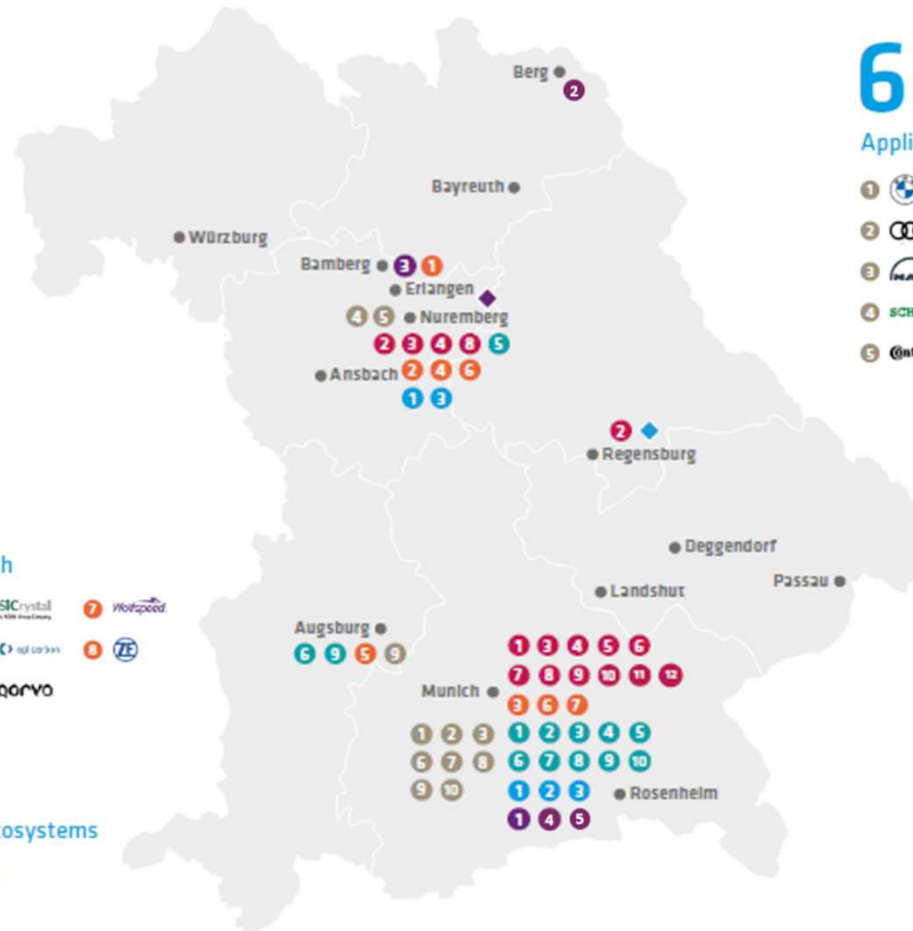
## Material Research

- 1 Fraunhofer IPA
- 2 Fraunhofer IPA
- 3 Fraunhofer IPA
- 4 SiCrystal
- 5 Fraunhofer IPA
- 6 QORVO
- 7 Wolfspeed
- 8 Fraunhofer IPA
- 9 Fraunhofer IPA

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## Sensor and Photonics Ecosystems

- ◆ Strategic Partnership for Sensors
- ◆ Bayern Photonics



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## Application Industries

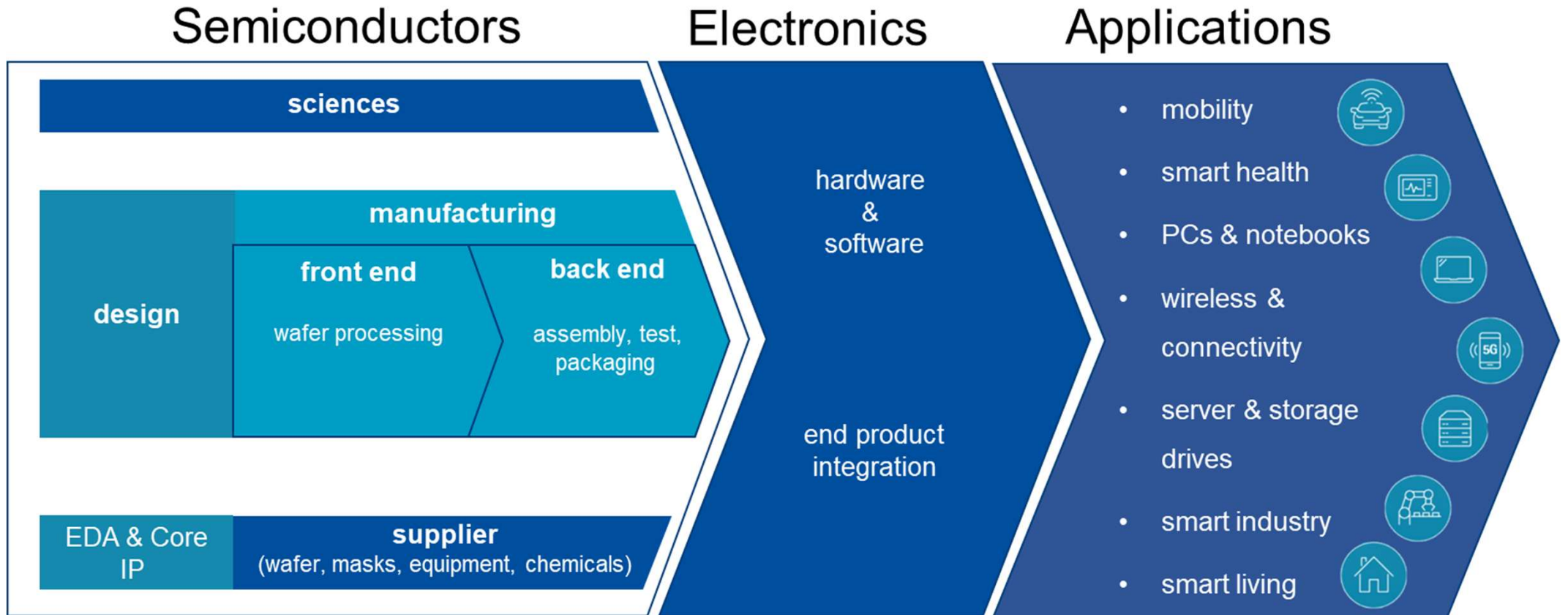
- 1 Audi
- 2 Audi
- 3 MAN
- 4 SCHAEFFLER
- 5 Continental
- 6 KNORR-BREMSE
- 7 brase
- 8 Webasto
- 9 KUKA
- 10 DEAKMAIER

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## Semiconductor Plants close-by

- 1 Infineon
  - 2 Infineon
  - 3 SEMICON DANFOSS
  - 4 intel
  - 5 xfab
  - 6 xfab
  - 7 onsemi
  - 8 Wolfspeed
- \* easily reached by car





# BAVARIAN CHIPS ALLIANCE

## GOAL

### SHAPING A SEMICONDUCTOR ECOSYSTEM

## MISSION

- to **initiate collaborations** of experts along the value chains for **semiconductor, electronics and applications**
- to **boost innovation transfer** between science and industry
- to **support** cross-industry **knowledge transfer**
- to **enhance networking** with other regional and **world-wide** clusters

**Artificial Intelligence &  
Future Technologies**

**Talents**

**Supply Chain  
Management**



**Value Chains for  
Semiconductors  
& Electronics**

**Global Cross-  
Cluster Network**

**Green & Digital  
Transformation**

**Talents**



**Global Cross-  
Cluster Network**

- **Prof. Dr. habil. Jörg Schulze**  
Institute Director, Fraunhofer IISB  
Spokesperson, Bavarian Chips Alliance
- **Sarah Fritz**  
Trainee Microtechnology
- **Robin Niemeyer**  
Trainee Microtechnology
- **Tanja Reinhardt**  
Training Coordinator / HR Specialist
- **Tobias Eilender**  
Student Electrical Engineering

## Talents



## Global Cross-Cluster Network

**Dr. Robert Gfrerer**  
CEO | Silicon Alps Cluster GmbH  
Chairman | Silicon Europe Alliance



# WHAT'S NEXT?

SAVE-THE-DATE



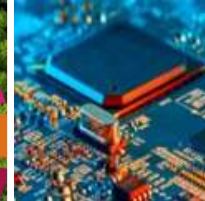
**Skilled workers for the semiconductor industry**  
July 9, 2026  
Online



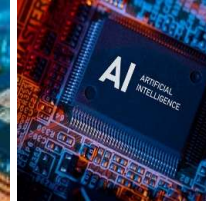
**Microelectronics for Autonomous & Connected Driving**  
July 29, 2026  
Online



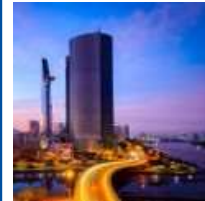
**Resilience of semiconductor supply chain**  
September 29, 2026  
Freising (D)



**Thermal Management of Semiconductors**  
September, 2026  
Eschenbach (D)



**Artificial Intelligence in microelectronics Workshop**  
September, 2026  
Nuremberg (D)



**Cooperation opportunities with Vietnam**  
July 13, 2026  
Online



**Bavarian Pavilion SEMICON TAIWAN**  
September 2-5, 2026  
Taipeh (Taiwan)



**German Pavilion SEMICON WEST**  
October 13-15, 2026  
San Francisco (USA)



**Bavarian Pavilion SEMICON EUROPA PRODUCTRONICA**  
November 10-13, 2026  
Munich (D)

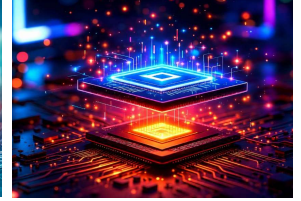


**German Pavilion SEMICON JAPAN**  
December 9-11, 2026  
Tokio (Japan)

IN COOPERATION



**Bavarian Data Summit**  
October 5, 2025  
Munich (D)



**RISC-V – from Open-Source to Custom CPU**  
Q1 & Q2, 2027  
Online



**Sustainable Semiconductors**  
October 7, 2026  
Munich (D)



**5th Conference on Chip Development**  
Q1, 2027  
Nuremberg (D)



**BENEFIT FROM YOUR PARTNERSHIP!**

**SIGN UP FOR MORE NEWS AND  
BECOME A PREMIUM PARTNER**



09.07.2026

Bavarian Ministry of Economic Affairs,  
Regional Development and Energy





**MANY THANKS!**

Bavaria is what we love,  
Semiconductors are what we know.

## CONTACT



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Lukas  
Zillich



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