



Fraunhofer



We bring AI to you!

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AI Innovation Center  
"Learning Systems and  
Cognitive Robotics"



**Fortschrittszentrum**  
LERNENDE SYSTEME UND KOGNITIVE ROBOTIK

## Europe's biggest research cooperation in the field of AI

The AI Innovation Center is a Cyber Valley research partner, a consortium of the Universities Tuebingen and Stuttgart, the Max-Planck-Institute for Intelligent Systems and seven industrial companies.

Thus, the impulses given by the AI top-level research are used to expand the state Baden-Wuerttemberg in Germany's southwest into a leading global AI region. In addition to scientific know-how, this includes a sustainable strengthening of regional economy. Therefore, it is necessary to supplement fundamental AI research with fruitful applied research. The competencies of the researchers at the two Fraunhofer Institutes leading the AI Innovation Center and Cyber Valley complement each other perfectly in close cooperation.

### Cooperation partners



### Funded by



**Baden-Württemberg**

MINISTRY OF ECONOMIC AFFAIRS, LABOUR AND TOURISM

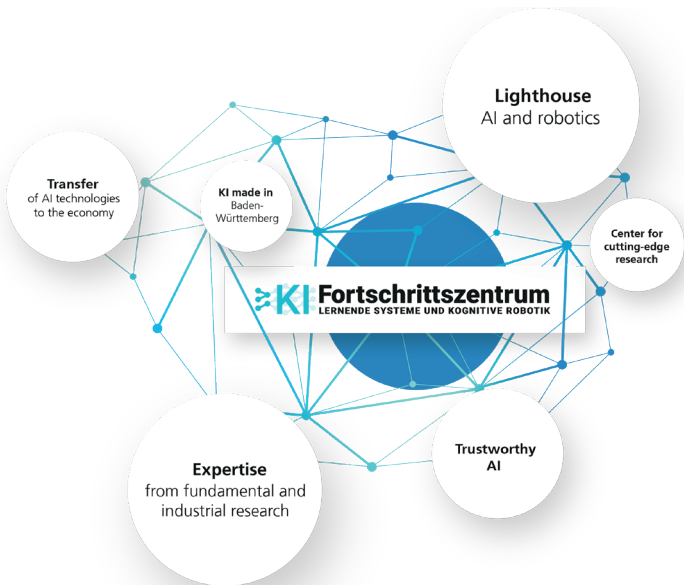
# Overview

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Artificial Intelligence and Robotics are considered as key technologies of the 21<sup>st</sup> century. The AI Innovation Center "Learning Systems and Cognitive Robotics" supports companies in using the economic opportunities given by AI and in particular machine learning for themselves.

## What we do

AI technologies are going to change and support our everyday life. The state of technology changes almost daily. Therefore, companies have to acknowledge the potential of these new technologies, build up knowledge and transfer it into own products, productions and services. They are faced with an immense flood of information about what AI actually can do for them. In this case, the experts from the AI Innovation Center make it possible to gain clarity here. In application-oriented research projects and in direct cooperation with industrial companies in Baden-Wuerttemberg, the Stuttgart Fraunhofer Institutes for Manufacturing Engineering and Automation IPA and for Industrial Engineering and Organization IAO are working on bringing technologies from cutting-edge AI research into broad application in manufacturing and service industries. They help to identify the most promising use cases and to bring the latest research results into an applicable form. The center is part of Europe's largest AI research network Cyber Valley and thus forms the bridge between excellent basic research and industrial application.



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## What we focus on

With four focal points, there are central areas of AI research that stand at the heart of the center:

- **Trust:** How can the behavior of robots or processes in regard to artificial intelligence be explained as well as how can implementation and transformation processes and security be established?
- **Efficiency:** How can artificial intelligence and cognitive robotics optimize decision-making and planning processes and which AI technologies are necessary for this?
- **Autonomy:** How can artificial intelligence help to make technical systems and processes more adaptive, flexible and autonomous?
- **Interaction:** How can human experience and machine learning complement each other optimally?

## Your benefits

The AI Innovation Center offers diverse cooperation formats to solidify the transfer of results from basic to applied research along the entire innovation chain in practice.

- **"Open Lab Days"** We invite you to our laboratories! Here, we present the joint range of services offered by the two Fraunhofer institutes.
- **"AI Explorer"** We are happily offering you consultation! Through workshops as well as our experts you will receive assessments of the status of AI and robotics in your company.
- **"Quick Checks"** We check your AI idea! Your individual AI use case will be revised and checked for feasibility.
- **"Exploring Projects"** We put your AI application into practice! Your individual application will be prepared by our experts.
- **"AI Innovation Seed"** Become a sponsor! Push forward your own innovations with our help and let other companies benefit from it.

The center receives financial support from the Baden-Württemberg Ministry of Economics, Affairs, Labour and Tourism.



Take advantage of the AI Innovation Center's support services to move your business forward with AI and robotics.«

**Dr. Nicole Hoffmeister-Kraut MdL**  
Minister of Economic, Affairs, Labour and Tourism

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