

### VISION

Reach an internationally visible leadership position in applied Artificial Intelligence (AI) / Machine Learning (ML) by combining unique research questions, data sets and expertise with newly developed AI/ML-based tools and democratized access to them in an open and dynamic community.

As one of the platforms initiated by the [Helmholtz Incubator Information and Data Science](#), cooperation and openness is hardwired into our approach. We are convinced that coordinated efforts and cooperation are key for success: Integrating field-specific and technological excellence, ensuring quality and providing swift access - that is what Helmholtz AI is about.

### MISSION

We are a research-driven hub for applied AI that

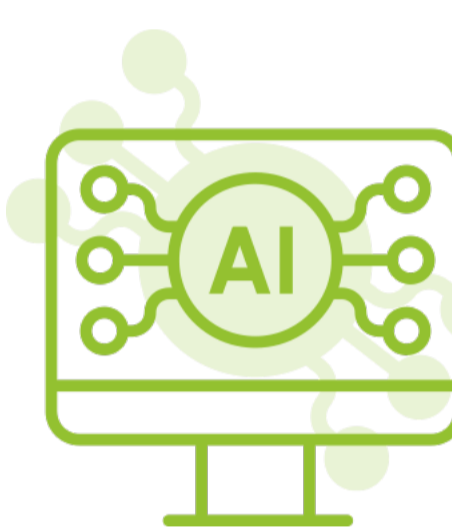
- fosters cross-field creativity by stimulating collaborative research projects
- identifies and leverages similarities between applications to advance generalised AI/ML methods
- integrates field-specific excellence and AI/ML prowess
- improves the quality, scalability and timely availability of emerging methods and tools
- empowers and trains the current and next generation of scientists

to enable the efficient and agile development and implementation of AI/ML assets across the whole [Helmholtz Association](#).

### STRUCTURE

We are structured as a **hub-and-spoke model** with six units across the Helmholtz Association built around our core themes:

#### RESEARCH



#### YOUNG & SENIOR INVESTIGATOR GROUPS

Carry out large, long-term AI/ML research projects

#### SUPPORT



#### HELMHOLTZ AI CONSULTANTS

Provide expert support to users across all Helmholtz Centres through a voucher system

#### COORDINATION & OUTREACH



#### SCIENCE MANAGEMENT

(only at HMGU)

Connect all partners and hubs, guaranteeing fluent daily business

Our headquarter is hosted by HMGU and we have **local units** (KIT, FZJ, HEREON, HZDR, DLR) together representing the six research fields of the Helmholtz Association.

### LEADERSHIP

#### Steering Board (SB)

It coordinates and leads our activities and ensures that we act in the interest of the whole Helmholtz Association and in coordination with the Helmholtz Incubator Information and Data Science.

- |                                |                           |
|--------------------------------|---------------------------|
| • Fabian Theis (HGMU)          | • Mario Fritz (CISPA)     |
| • Guido Juckeland (HZDR)       | • Ralf Mikut (KIT)        |
| • Judith Katzy (DESY)          | • Corinna Schrum (Hereon) |
| • Andreas Kosmider (Helmholtz) | • Oliver Stegle (DKFZ)    |
| • Nadja Danilenko (Helmholtz)  | • Frederik Tilmann (GFZ)  |
| • Timo Dickscheid (FZJ)        | • Xiaoxiang Zhu (DLR)     |

#### Scientific Advisory Committee (SAC)

It provides advice on scientific developments, ensures that we work along the state-of-the-art and produce relevant scientific output.

- |  |   |
|--|---|
| • Florence Forbes (INRIA)                                  | • Bernhard Schölkopf (Max Planck Institute Intelligent Systems)     |
| • Klaus-Robert Müller (TU Berlin)                          | • Monika Sester (Institute Cartography and Geoinformatics Hannover) |
| • Stan Posey (Nvidia)                                      | • Jean-Philip Vert (Google Brain)                                   |
| • Markus Reichstein (Max Planck Institute Biogeochemistry) |   |
| • Cordelia Schmid (INRIA)                                  |   |

### STAY IN TOUCH

[www.helmholtz.ai](http://www.helmholtz.ai)
[contact@helmholtz.ai](mailto:contact@helmholtz.ai)
[@helmholtz\\_ai](https://twitter.com/helmholtz_ai)
[HelmholtzAI](https://www.linkedin.com/company/helmholtzai)

### FUNDING

#### Annual project call



Cross-Helmholtz-center research on ML/AI challenges and methods



'High risk, high gain' project proposals (up to 3 years) that prize learning from (fast) failure over incremental success



Up to **€200k** from the funding line

**2019 Call:** 55 project proposals received, 19 funded

**2020 Call:** 62 project proposals received, 17 funded

**2021 Call:** 33 project proposals received, 10 funded

#### Voucher system



**Scientific support in applied AI** research questions across the Helmholtz Association



**Short term** collaborations (2 weeks - 6 months)  
Support provided by **AI consultants**



**Online voucher application system**

#### Computing Resources

#### HAICORE | HELMHOLTZ AI COMPUTING RESOURCES

Access to computing resources is key for the Helmholtz AI community to accelerate innovative AI applications. There are two usage modalities:



**Ad-hoc usage** for initial playing with the data and/or AI methods  
@KIT



**Lightweight projects** of up to 10,000 GPU hours per half year  
@FZJ



**Online voucher application system**