



EU HORIZON 2020
EuroHPC-RIA
(RESEARCH and INNOVATION ACTION)
FACTS AND FIGURES

EuroHPC JU



EuroCC



EuroCC Austria

EuroHPC Joint Undertaking

- Governing board: EU-representatives and participating member states

EuroCC

- EU-funded international initiative aimed to support the uptake of High-Performance Computing (HPC) in Europe
- Aim: development and expansion of the services of national competence centres (NCCs) in 33 participating member states

EuroCC Austria

- National competence centre for supercomputing, Big Data and Artificial Intelligence in Austria
- Funded by the EU and BMBWF Federal Ministry of Education, Science and Research
- Collaborative initiative of six Austrian partners

<https://eurohpc-ju.europa.eu>

<https://www.eurocc-access.eu>

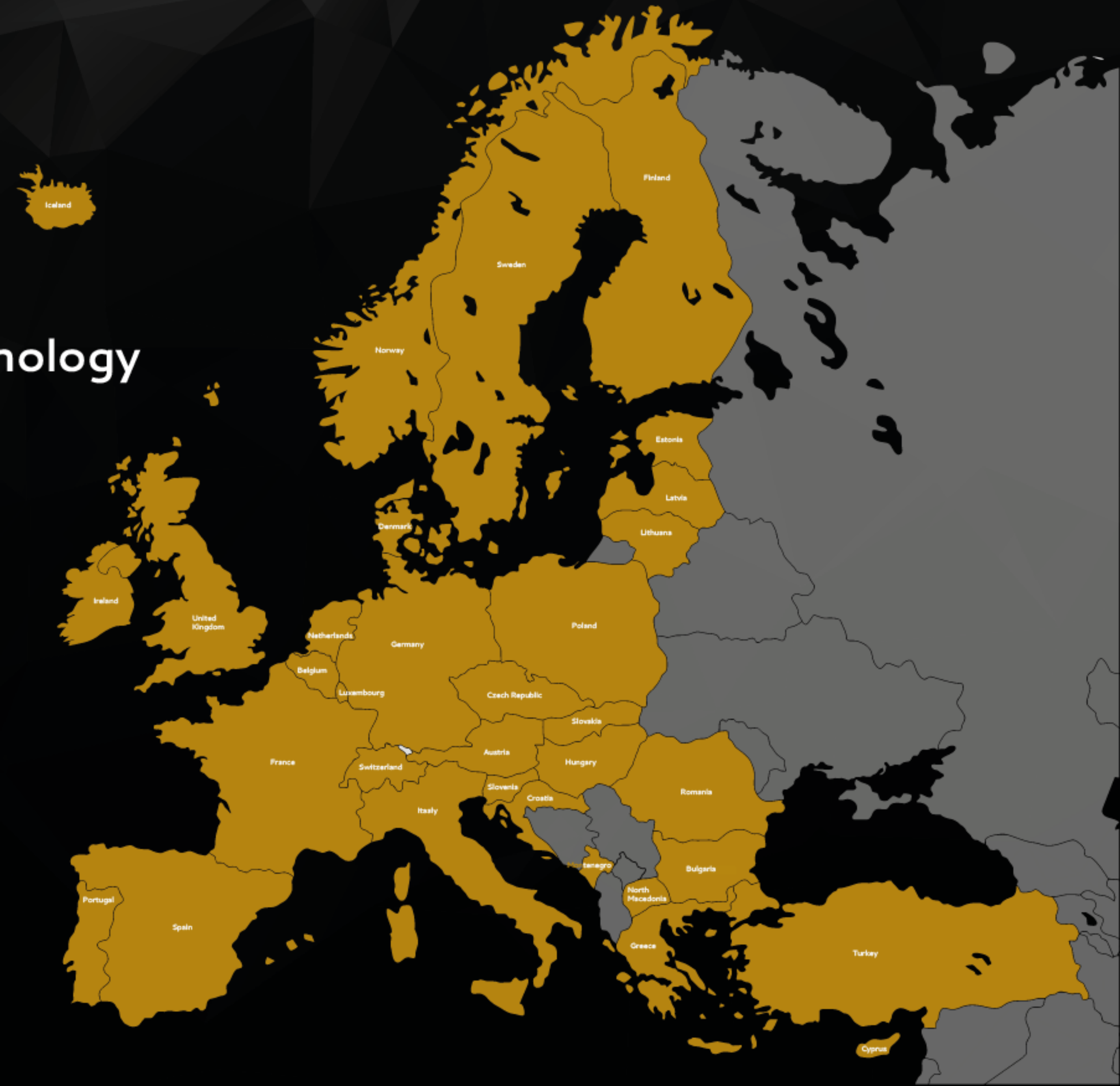
<https://eurocc-austria.at>



EuroHPC Joint Undertaking – Support for HPC users based in the EU

→ AIM: Establishment of a European HPC ecosystem

- Financial support
- Provision of research and innovation grants
- European “low-energy processor” initiative
- Exascale supercomputers featuring European technology
- Developing a world-class supercomputing infrastructure in Europe (procurement and deployment of three pre-exascale and five petascale-systems)
- Establishment of national Competence Centres
→ EuroCC
- Establishment of an academic HPC Master programme



EuroCC

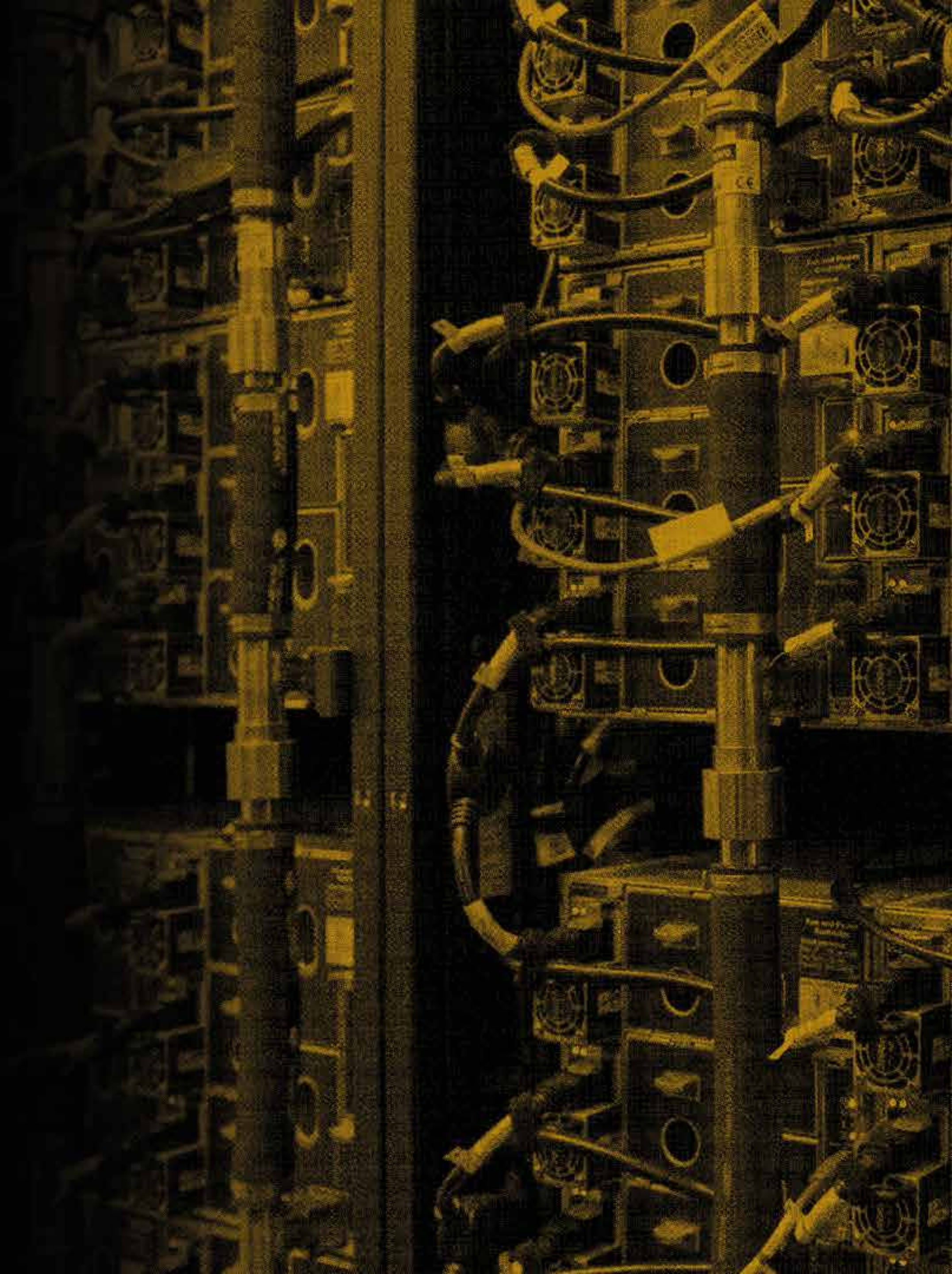
→ AIM: Establishment of 33 national competence centres (NCCs) in Europe

TARGET GROUPS

- Academia
- Industry
- Public Administration

SERVICES

- Networking of the entire national HPC ecosystem
- Joint external appearance and coordination by EuroCC
- Identify and close systemic gaps



EuroCC AUSTRIA

→ AIM: Installation of the Austrian EuroCC network

EXISTING INFRASTRUCTURE

- Universities
- Private research facilities

TASKS

- Collection, documentation and coordination of core activities and competencies in HPC, Big Data and Artificial Intelligence on a national level
- HPC/BD/AI expertise and know-how for science, industry and the public sector



EuroCC AUSTRIA

→ SERVICES

AREAS OF APPLICATION

- Modelling and simulation
- Training of algorithms
- Visualisation, evaluation of large amounts of data
- Code- and software-optimisation
- Solving of complex problems and acceleration of processes

ACTIVITIES

- Access to computing time and software on high-performance computers in Austria & EU
- Networking with experts and providers in the field of HPC / Big Data / Artificial Intelligence
- Training and courses
- Project support
- Support with public funding

BENEFITS

- High computing power and storage capacity
- Data security: data processing on local servers, usual legal framework
- Time and cost efficiency through:
 - Simulation instead of iterative, physical prototype development
 - Less "time to market/result"

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