EuroCC Austria

National Competence Centre for Supercomputing, Big Data and Artificial Intelligence
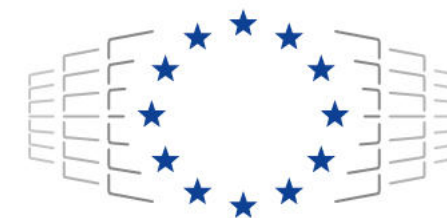
EuroHPC Joint Undertaking → EuroCC → EuroCC Austria

EuroHPC Joint Undertaking

- Pools European resources and efforts to develop a world-class supercomputing ecosystem in Europe

- Finances new powerful HPC infrastructure and initiatives to support HPC access, education and more

eurohpc-ju.europa.eu

EuroCC

- EU-funded initiative aimed to support the uptake of High-Performance Computing (HPC) in Europe

- Set up of 32 National Competence Centres (NCCs) for HPC, HPDA, AI

eurocc-access.eu

EuroCC Austria

- Contact point and service provider for HPC, HPDA and AI in Austria

- Coordinated by Advanced Computing Austria with the University of Vienna, TU Wien, BOKU, INiTS

eurocc-austria.at

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European Supercomputing

LUMI
Finland
375/552 Pflop/s
Pre-exascale System

KAROLINA
Czech Republic
9.4/15.4 Pflop/s

MELUXINA
Luxembourg
12.8/18.0 Pflop/s

LEONARDO
Italy
249/323 Pflop/s
Pre-exascale System

VEGA
Slovenia
6.9/10.1 Pflop/s

DEUCALION
Portugal
7.2/10.0 Pflop/s

DISCOVERER
Bulgaria
4.5/6.0 Pflop/s

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Vienna Scientific Cluster

Austria's flagship supercomputers

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VSC-5

<u>770 nodes</u>
  2 x AMD EPYC Milan (Zen3) CPUs á 64 cores
  512 GB/node (1 TB / 2 TB)

<u>48 nodes</u>
  2 x Intel Cascadelake CPUs á 48 cores
  384 GB/node

<u>60 GPU nodes</u>
  2 x Zen3 CPUs + 2 x NVIDIA A100 GPUs

<u>40 GPU nodes</u>
  2 x Zen2 CPUs + 2 x NVIDIA A40 GPUs

Interconnect: Mellanox HDR InfiniBand (200 Gbit/s)

VSC-4

<u>790 nodes</u>
  2 x Intel Skylake Platinum CPUs á 24 cores
  96 GB/node (384 GB / 768 GB)

Interconnect: Intel Omni-Path (100 Gbit/s)

LEONARDO (Italy)

Austrian users have access to 500.000 GPU-h a year
on the Booster module via national AURELEO calls.

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What EuroCC can do for you

Support for SMEs, startups, academia and public sector

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Consulting & project support

- Consulting & support for HPC / Big Data / AI projects
- Link to experts
- Free Proof of Concept (PoC)
- Securing state funding
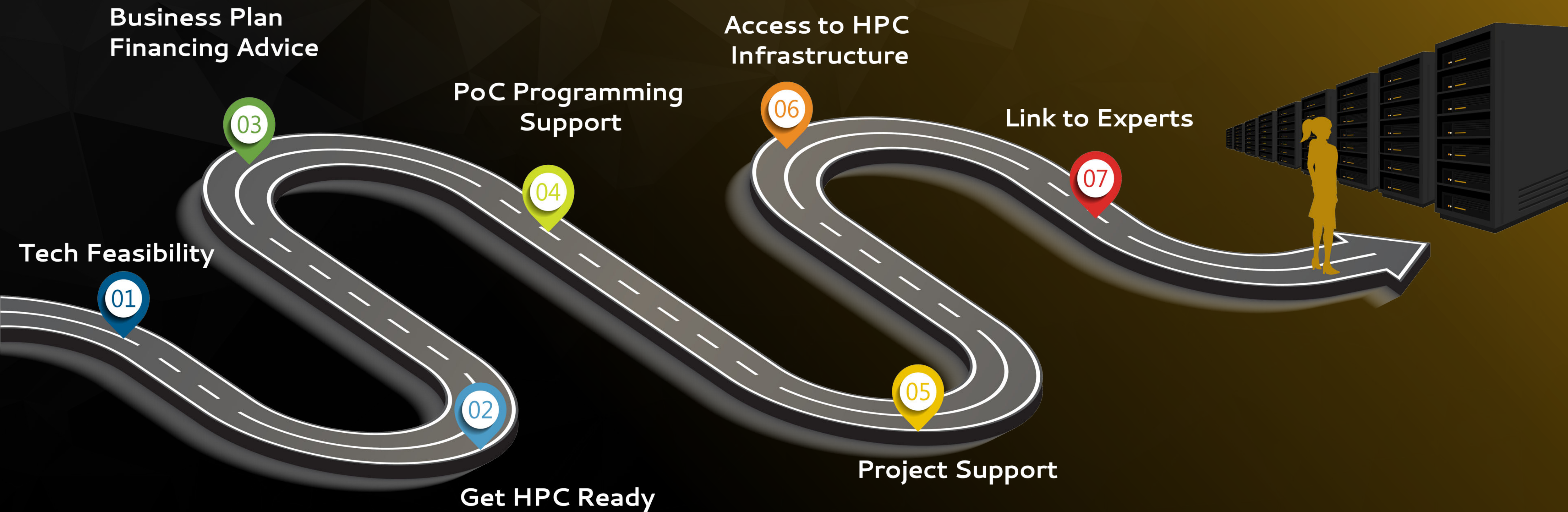- Help with finding project partners
- Business plan development

Training with VSC

- Parallel programming
- Machine learning, deep learning
- Data analysis & preparation for ML
- GPU programming
- Python for HPC
- Best practices for better code performance

HPC infrastructure

Access to powerful supercomputers including help with the application process and PoC programming support:

- Vienna Scientific Cluster (Austria)
- Leonardo (Italy, co-financed with Austria)
- Other EuroHPC Systems

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Business Plan
Financing Advice

03

Access to HPC
Infrastructure

06

PoC Programming
Support

04

Link to Experts

07

Tech Feasibility

01

02

Get HPC Ready

05

Project Support

Apply on F6S
www.f6s.com/eurocc/apply

or

Reach out at
info@eurocc-austria.at

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Let's stay in touch!

Follow EuroCC Austria to stay up-to-date with news, events, calls for applications, and exciting stories from the world of HPC/Big Data/AI.

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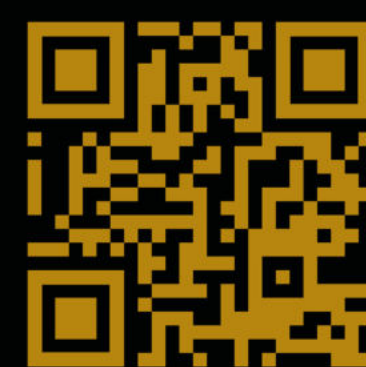AUSTRIA

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