



PC² Hackathon

Welcome & Introduction

Paderborn University, Germany
Paderborn Center for Parallel Computing

2024-08-26



Paderborn
Center for
Parallel
Computing

1. PC2 Hackathon
2. Paderborn Center for Parallel Computing (PC2)
3. Introduction: HPC Advisors & Participants

Organization

Overall Schedule

- **Monday (14:00 – 17:00)**
 - Introduction, project planning
 - 18:30 Dinner at [KÖ13](#) (at own expense)
- **Tuesday (09:00 – 17:00)**
 - (we can open rooms before 9:00 am)
 - Hacking
- **Wednesday (09:00 – 17:00)**
 - Hacking
 - Whitespace Sneak Peek
 - 18:00 Guided City Walking Tour (2h, included)
- **Thursday (09:00 – 14:00)**
 - Finalization, short project reports
 - 13:00 Closing Lunch

Detailed schedule on registration page: <https://events.uni-paderborn.de/event/716/>

- **Important rooms**
 - X0.101 – PC2 Training Room
 - (this room)
 - X0.207 – PC2 User Center
 - (same hallway, other side)
 - Coffee, soft drinks, cookies
 - Restrooms on same hallway
- **Lunch included**
 - One Mensa card per participant

At the end of the hackathon, each project is supposed to prepare a short report.

- Format: **Markdown**
- Few paragraphs of text, code snippets, ...
- At least one image (e.g. scaling plot, simulation graphics, ...)

Reports can be submitted to <https://git.uni-paderborn.de/pc2-public/hackathon-reports>.

On Thursday, each project will present the report/the results (5 min, slides are optional).

Compute resource reservation

Your account was added to `hpc-lco-usrtr`, which gives you access to the reservation.

Compute nodes:

- 7 normal (`hackathon24_normal`)
- 4 FPGA (`hackathon24_fpga`)
- 2 GPU (4 A100 GPUs each) (`hackathon24_gpu`)
- 3 huge memory (2 TiB) (`hackathon24_hugemem`)

SLURM: `--reservation=hackathon24_normal`



Paderborn Center for Parallel Computing (PC2)

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What we do

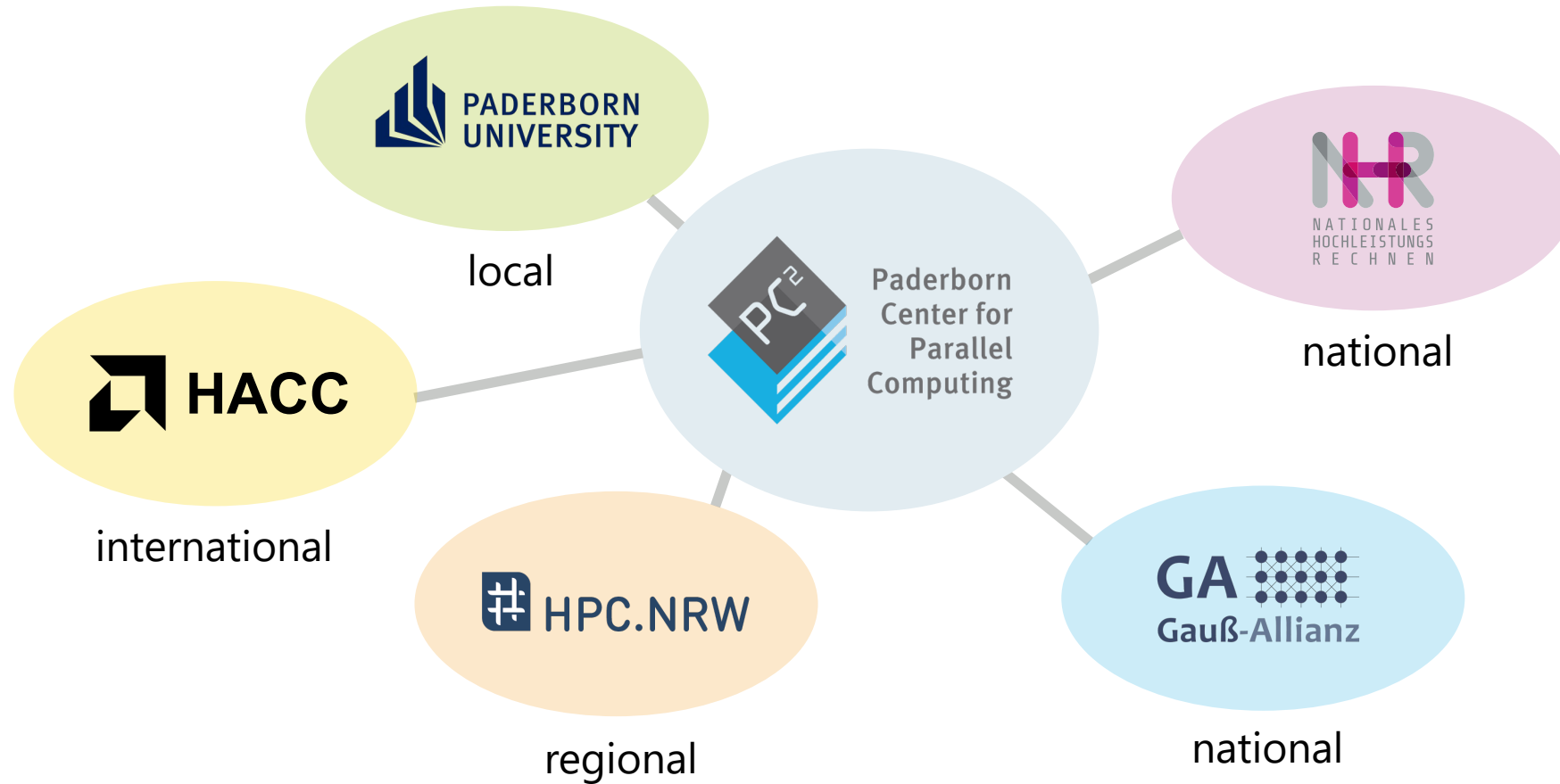
- HPC infrastructure and services
- New methods for HPC
- Computing systems research

Who we are

- System administrators & IT specialists
- Domain scientists with HPC expertise
- Research associates & students



We are embedded in competence networks



National HPC Alliance (NHR)

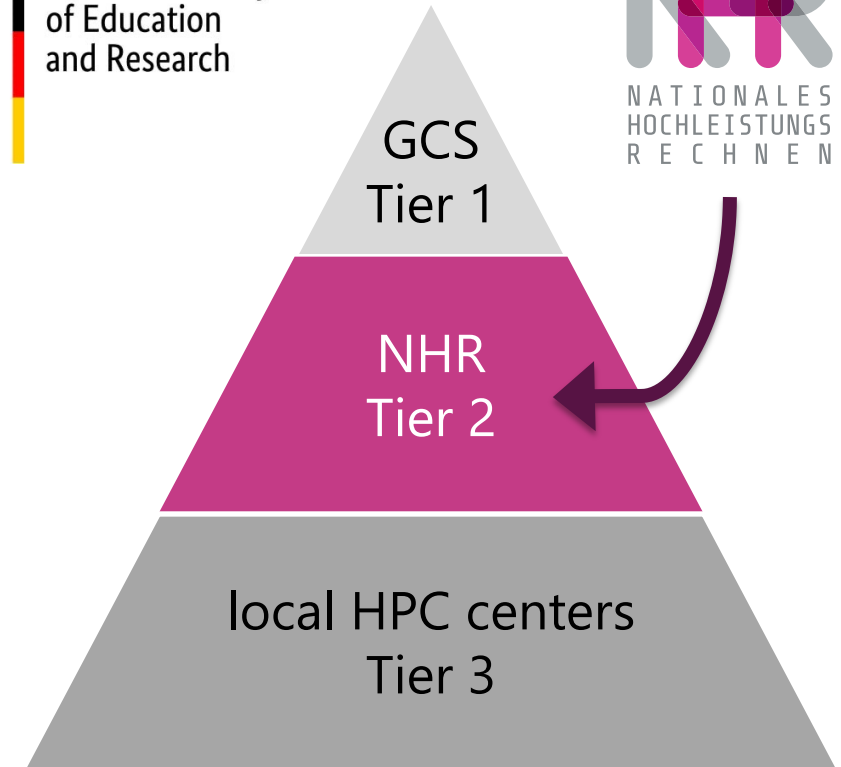
- Since 2021
- Focus on **demands of science and research**

More information

- <https://www.nhr-verein.de>

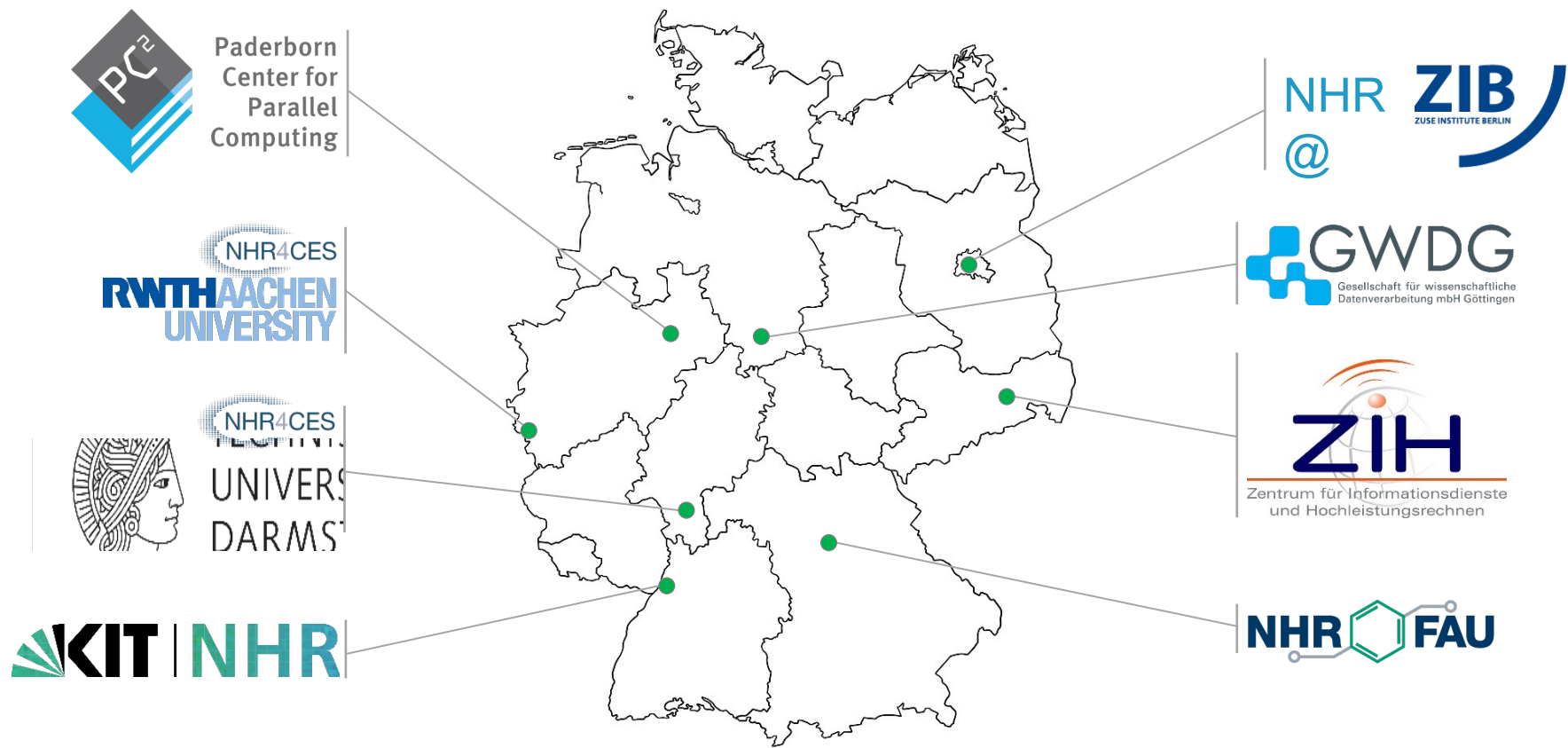


Federal Ministry
of Education
and Research



HPC resource provider pyramid

NHR Centers in Germany



+ Consortium Süd-West (U Frankfurt, TU Kaiserslautern, U Mainz und U Saarland)

Introduction: HPC Advisors & Participants

PC2 Advisors Introduction

Participants Introduction

Let's start hacking!

(Project planning 😊)