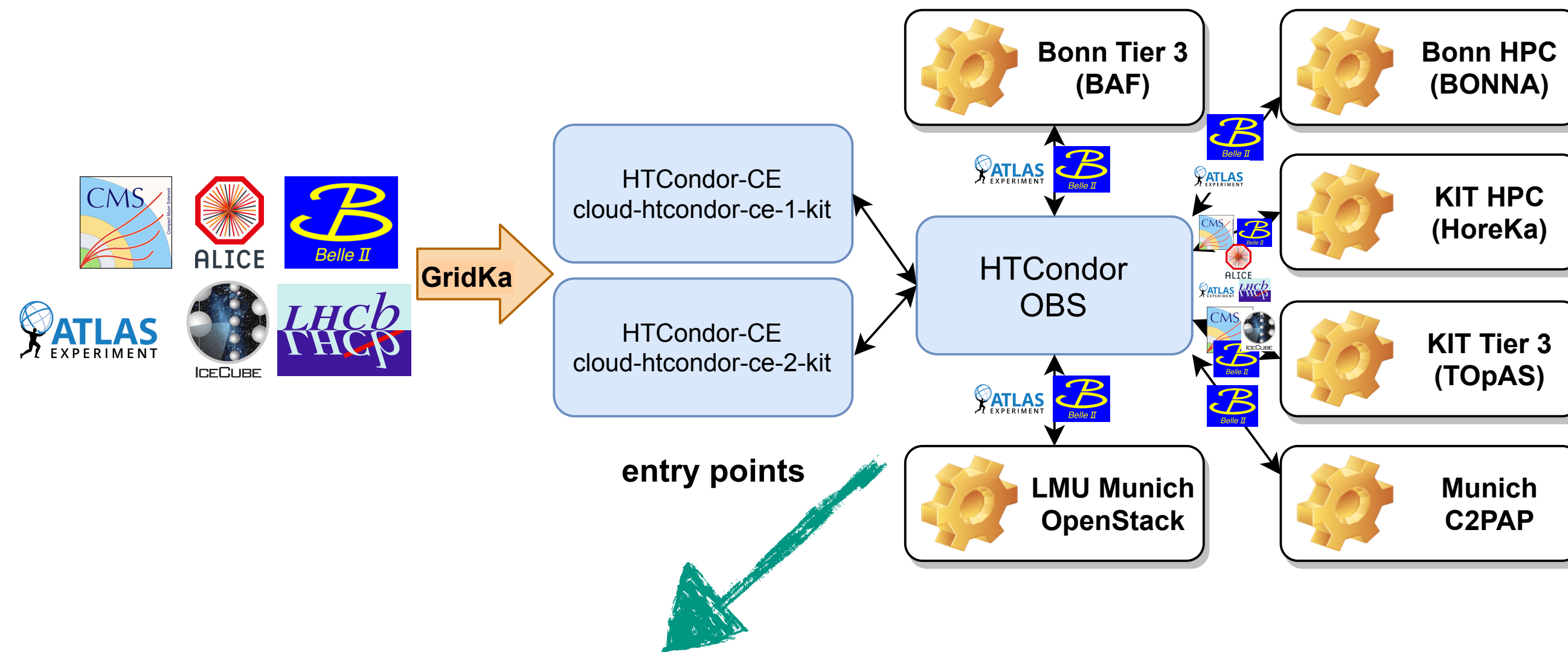


Status & Plans KIT

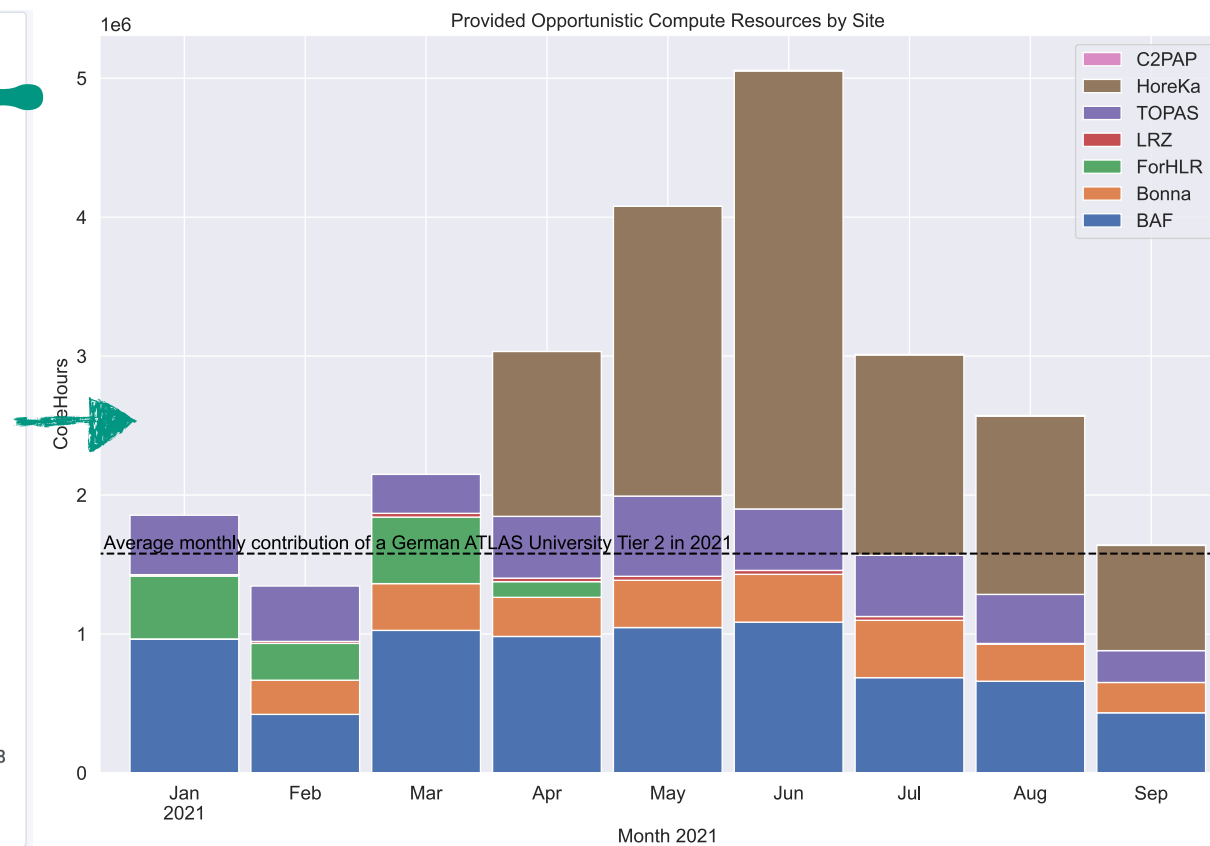
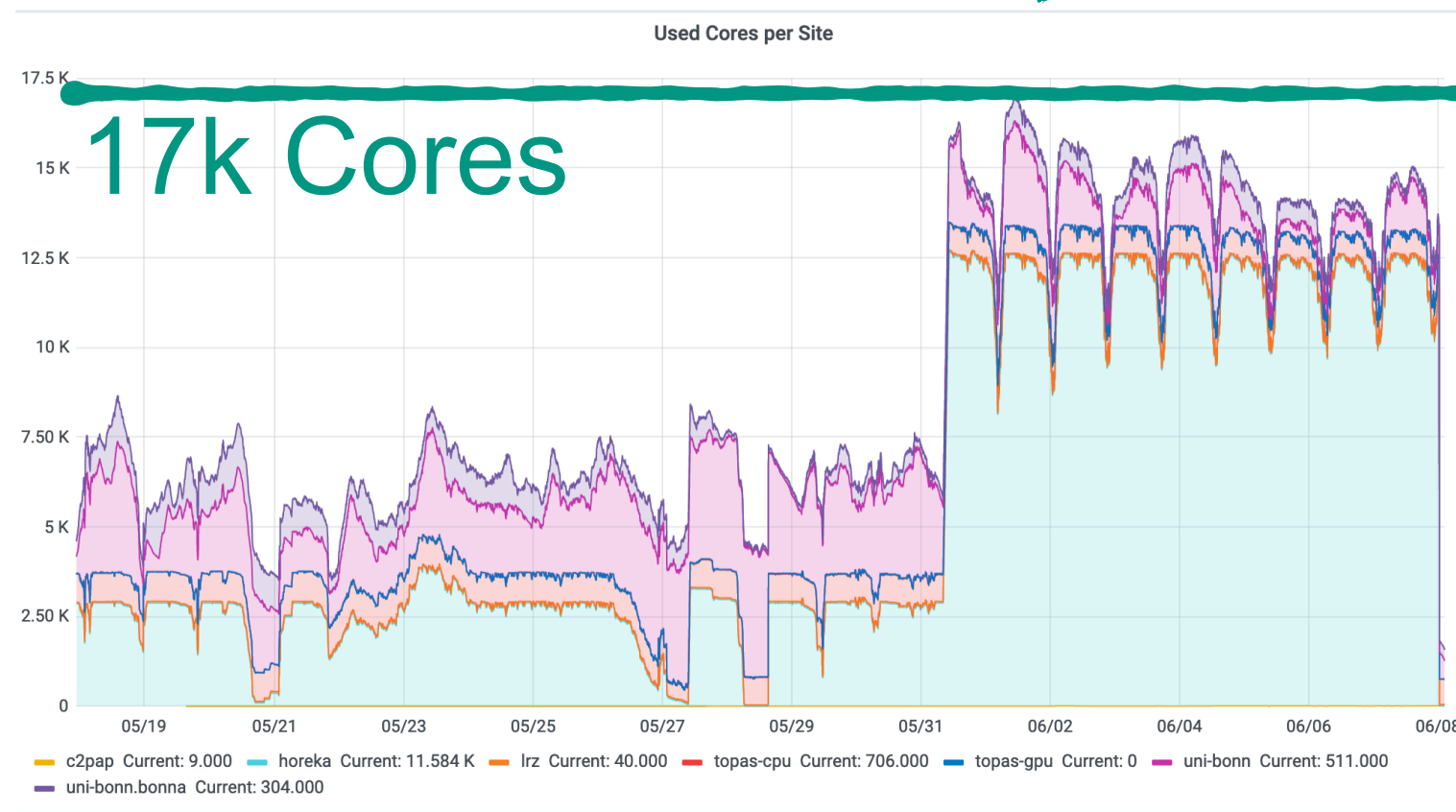
Manuel Giffels for the KIT Computing Team
FIDIUM Kickoff Meeting, 16.12.2021



Topic 1 - „Opportunistic Resources“ - Status



- Experiment-agnostic ecosystem providing **single point of entry** to plethora of resources (HPCs, Tier-3s and Clouds)
- Dynamic, on demand **provisioning** and transparent **integration** using **COBaLD/TARDIS**
- Stable operation since ~ 3 years
- Topped the **17k-core** mark during HoreKa scale test
- In total **~24.5 million core hours** provided in [01/2021 - 09/2021]
- **GPUs integrated** via TOpAS (32 NVidia V100/ 24 NVidia A100)
- **Fruitful collaboration** (U Bonn, U Freiburg, KIT, LMU, RWTH Aachen and U Wuppertal)



Topic 1 - „Opportunistic Resources“ - Status

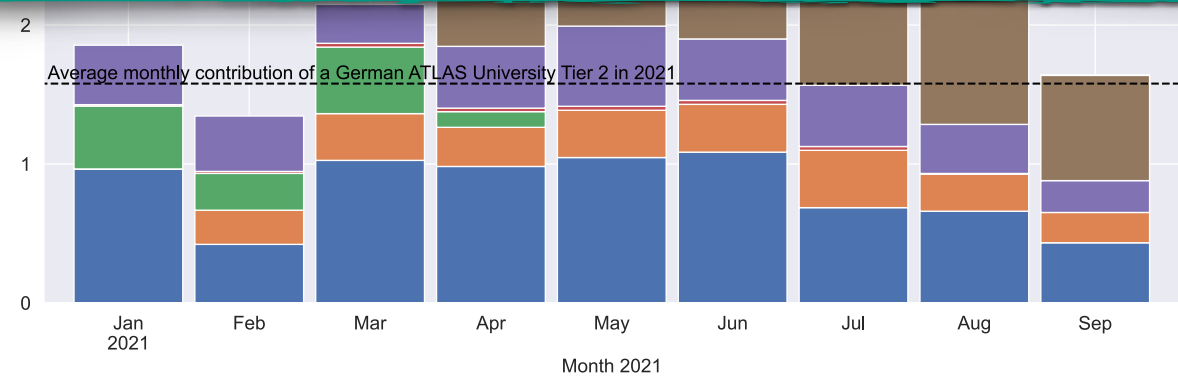
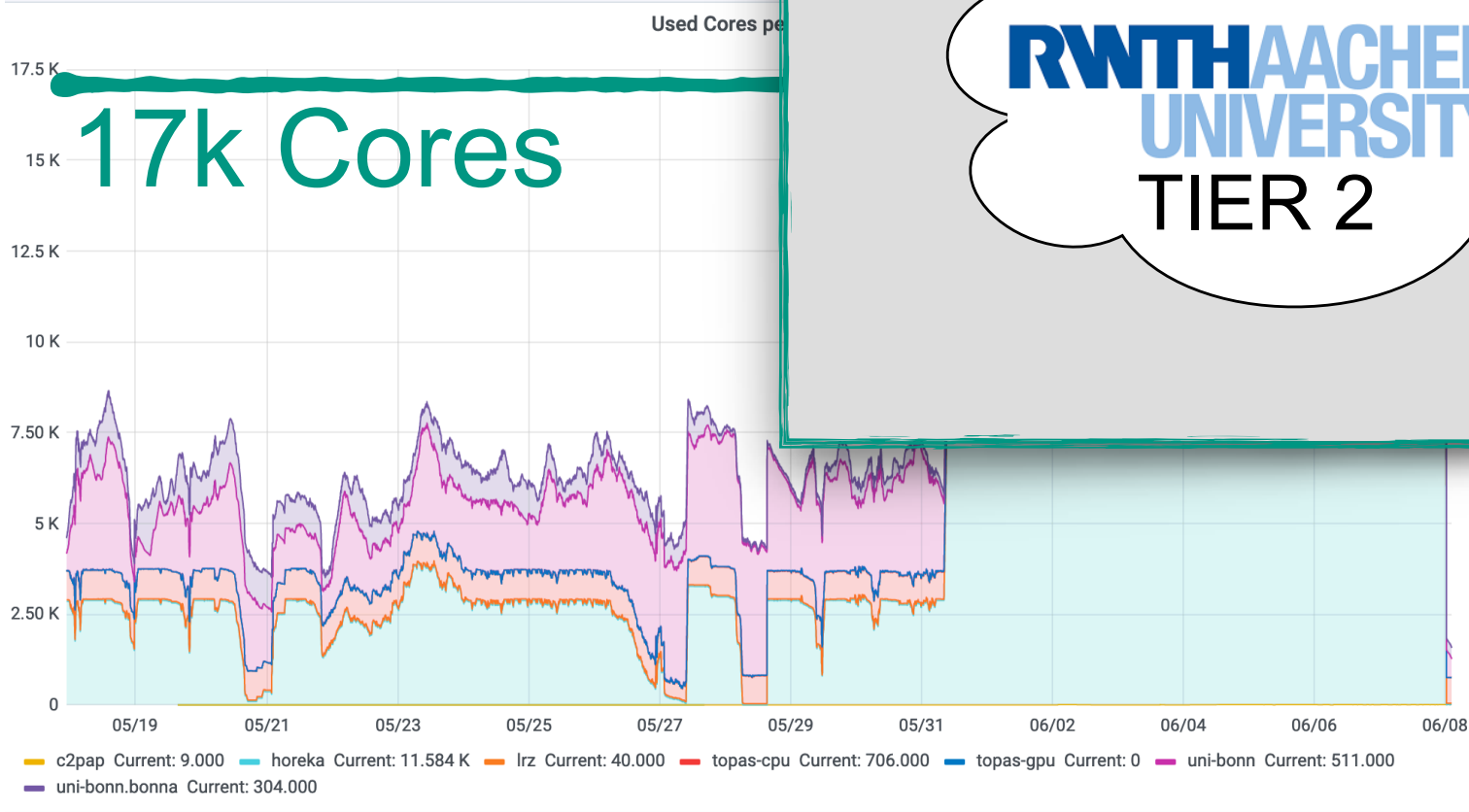
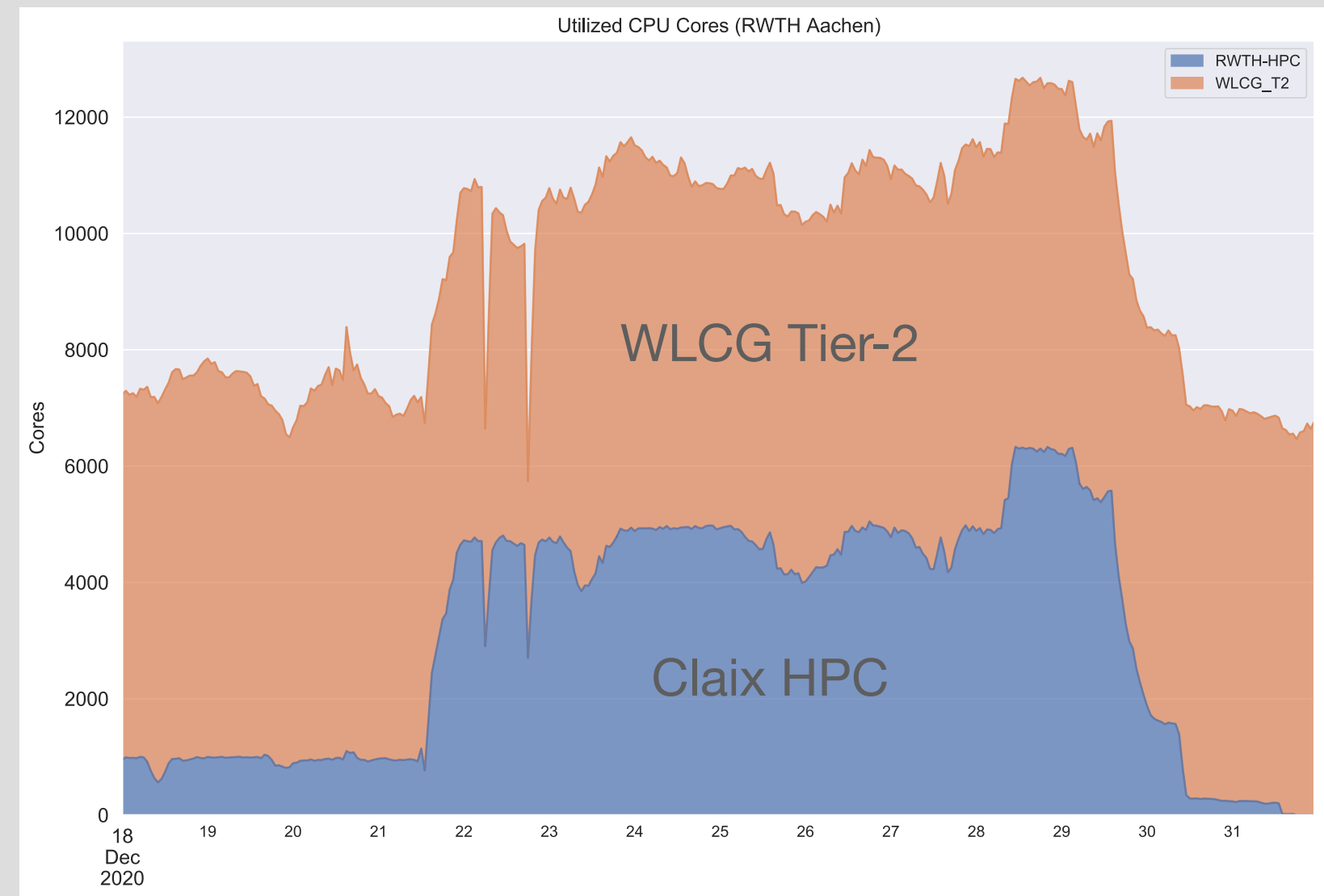
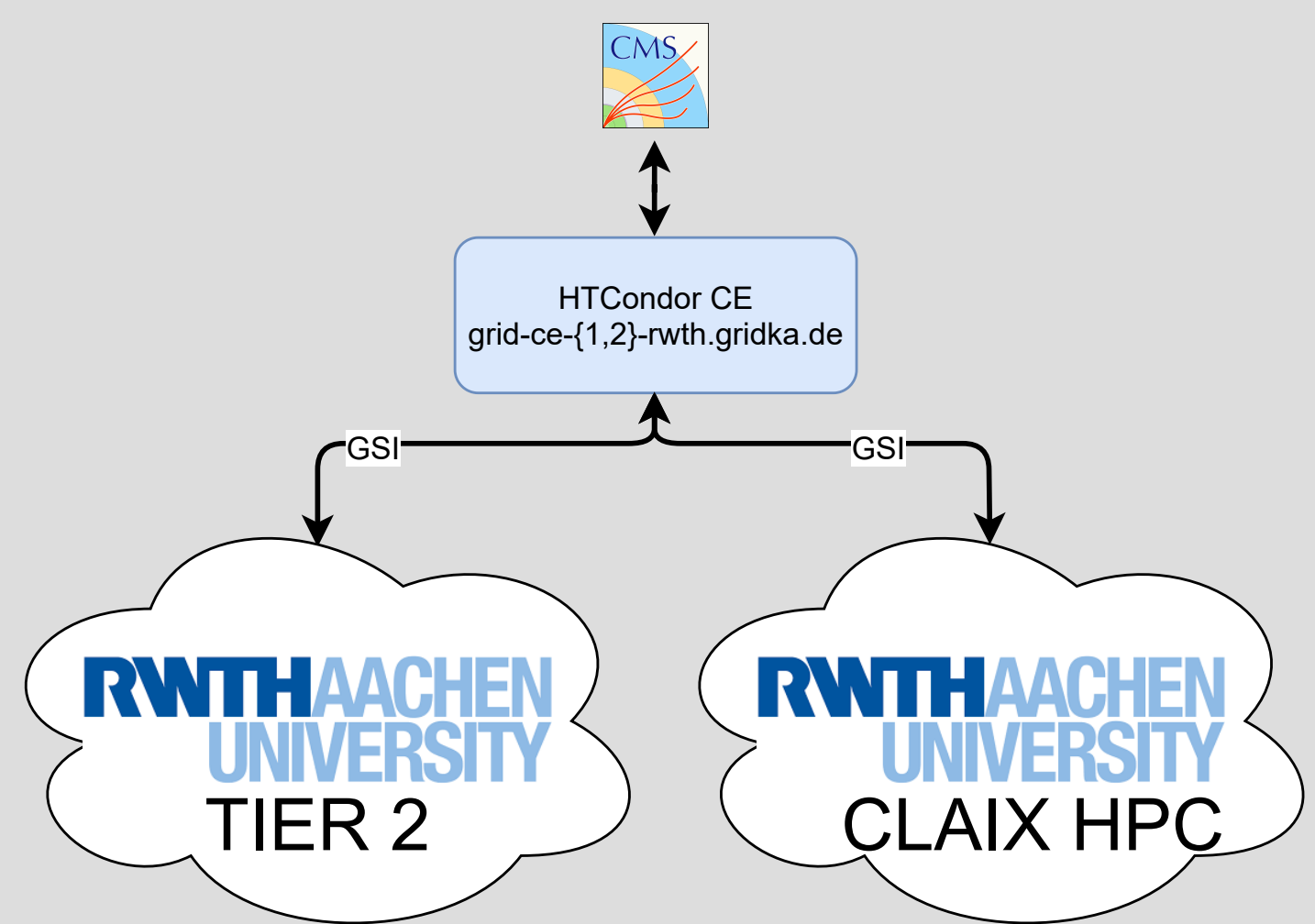


■ Experiment-agnostic ecosystem providing of resources

Similar setup deployed at RWTH Aachen Tier-2 center



GridKa



■ Fruitful collaboration (U Bonn, U Freiburg, KIT, LMU, RWTH Aachen and U Wuppertal)

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Topic 1 „Opportunistic Resources“ - Plans

Work Plan (Proposal):

■ Work Package 1

- Development, maintenance and extension of COBa LD/TARDIS and the ecosystem around
- Automated scaling of peripheral services (Squids, etc.) using COBa LD/TARDIS
- Scheduling on job characteristics (e.g. I/O needs, workflow type, etc.)
- Data locality aware scheduling

■ Work Package 2

- Accounting, in particular the integration into WLCG Accounting (APEL)

We are looking forward to a successful collaboration with all partners & associates!