

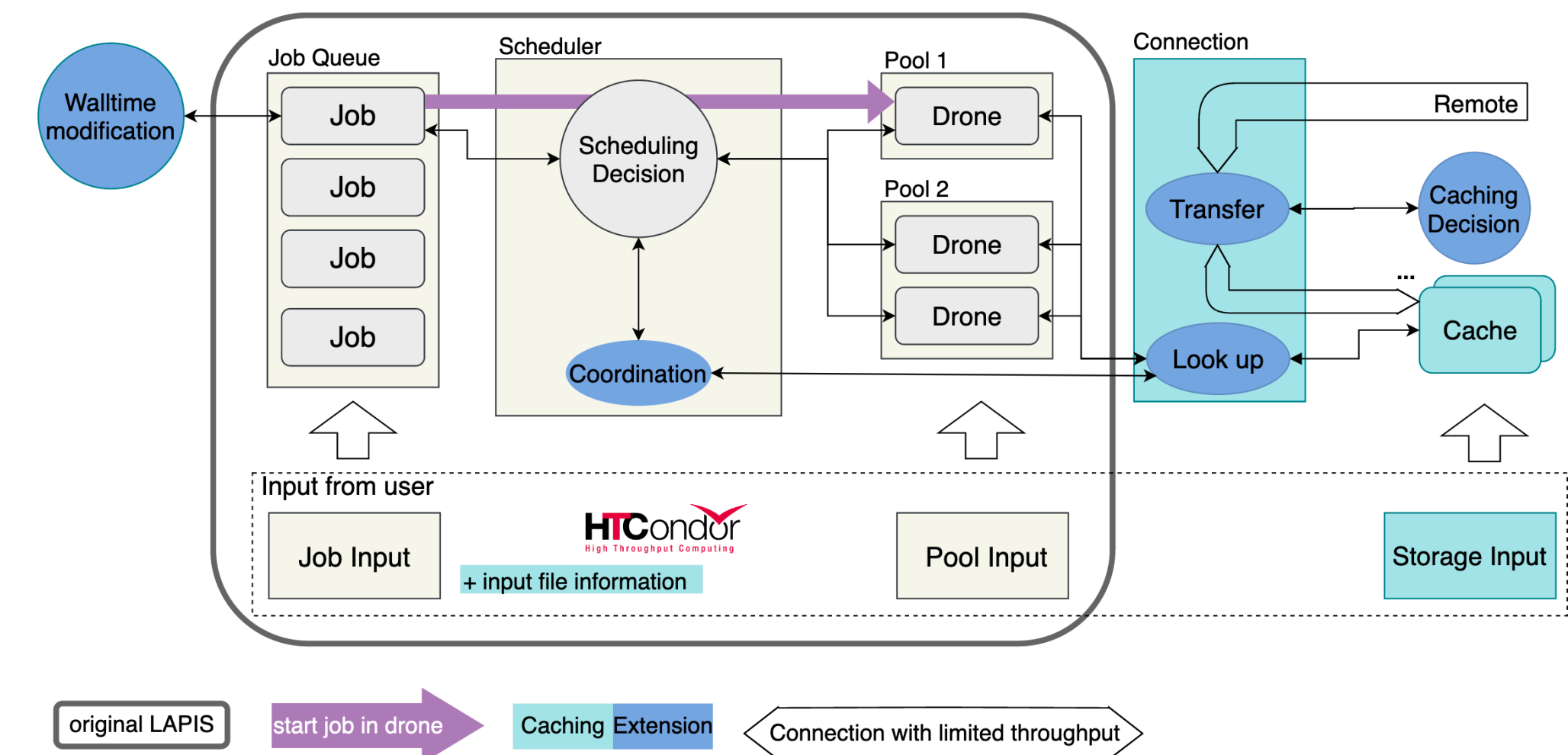
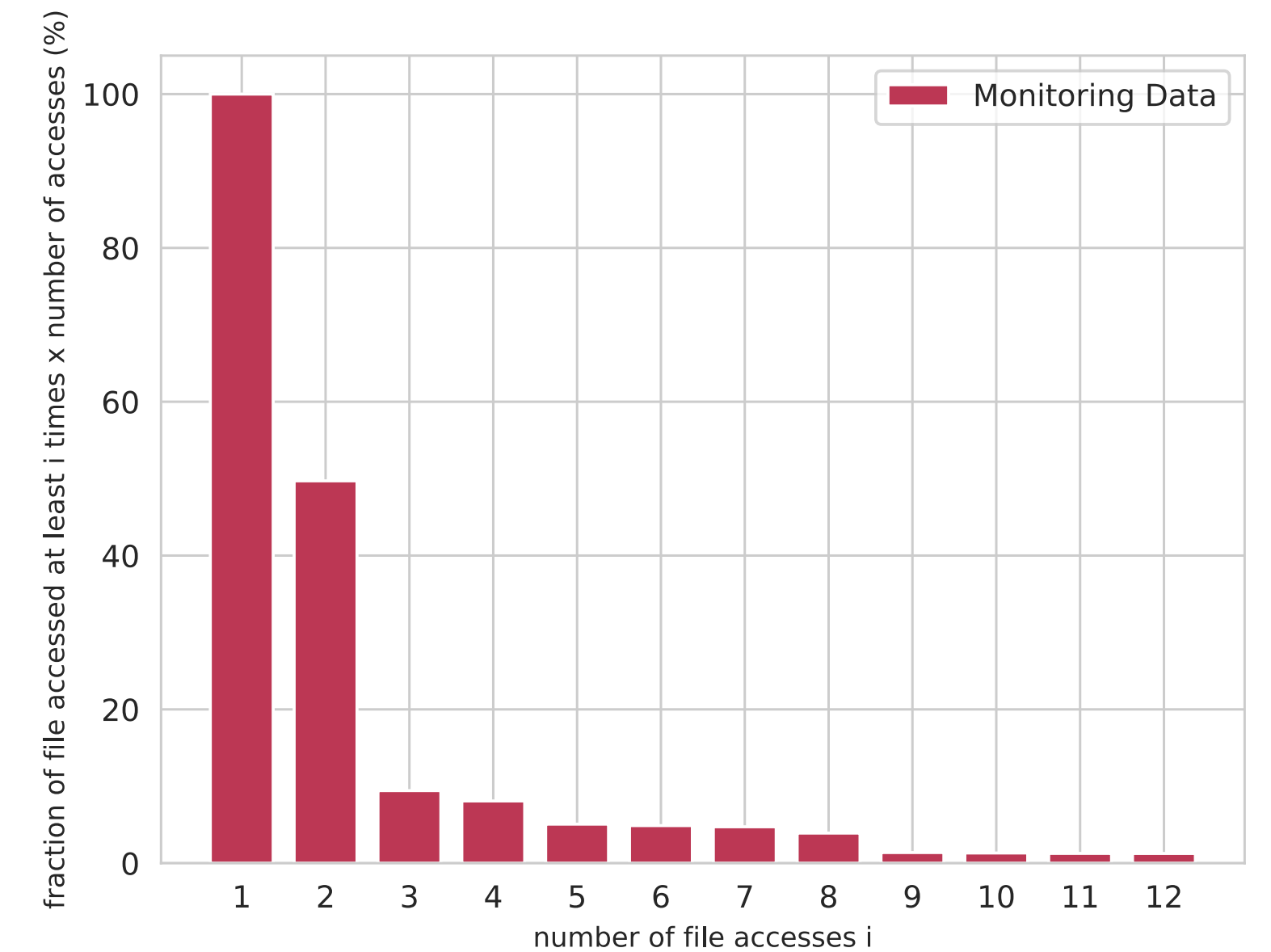
Status & Plans KIT

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



Topic 2 - „Caching“ - Status

- Deployment of XRootD proxy based caches on various compute resources based on work done at GSI (NEMO HPC, TOPAS, Open Telekom Cloud, etc.)
 - Not sufficient to study complexity of distributed coordinated caching (DCC)
 - Decided to do simulations first
- XRootD monitoring has been developed and deployed @ KIT
 - Study cacheability of workflows
 - Collect data as input for simulations
- Started simulation of DCC
 - Cache coordination
 - Caching algorithms



Topic 2 - „Caching“ - Plans

Work Plan (Proposal):

■ Work Package 2

- Development, maintenance and extension of a caching simulator
- Simulation of complex systems with dynamic, distributed and coordinated caches
- Comparison between different caching strategies

■ Work Package 3

- Integration of dynamic, distributed and coordinated caches into the compute infrastructure (Topic 1)
- Data locality aware scheduling

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