

Interactive Computing E-Infrastructure Public Information Event



FENIX
RESEARCH INFRASTRUCTURE

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Infrastructure JUELICH

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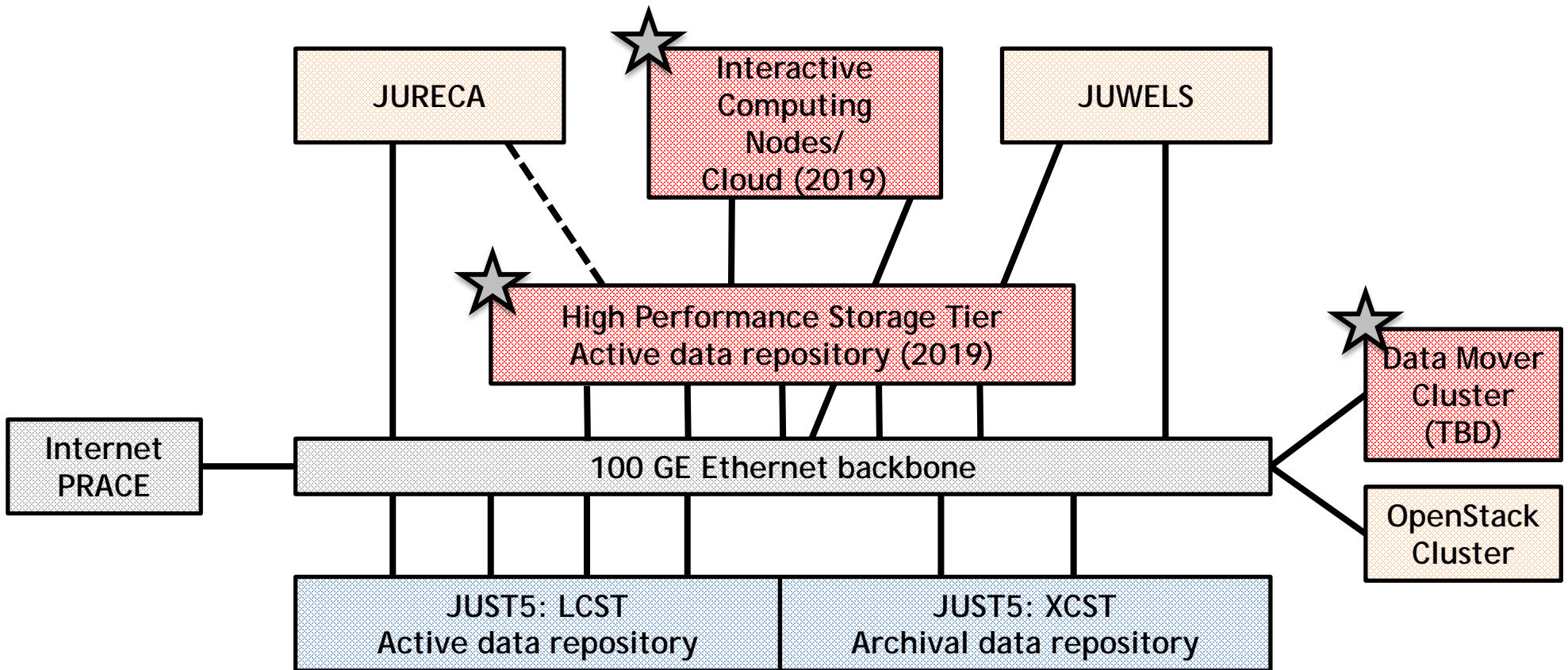
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Disclaimer

Neither this announcement nor the event itself signifies the beginning of a procurement procedure or constitutes a commitment by the public procurers involved in the presentation to undertake such exercise at a later stage

Overview



★ New components

New infrastructure components (1/2)

- **High-Performance Storage Tier**

- Integrated dense multi-Terabyte/s I/O acceleration platform
- Acceleration not limited to checkpointing (burst buffer):
Strong workflow support
- Horizontal extensibility/scalability with JUELICH modular supercomputing concept

- **Data Mover Cluster**

- Infrastructure for data movement: Archival repositories ↔ active repositories
- Design based on R&D results

New infrastructure components (2/2)

▪ Interactive Computing/Cloud Platform

- Two partitions: (a) interactive computing resources and (b) VM hosting (OpenStack)
 - Flexible repartitioning with minimal downtime
- Cluster architecture
 - Data analysis focused node architecture (large main memory, NVM integration, potentially GPU equipped)
 - High-speed interconnected
 - Fast Ethernet connection for VM hosting
 - Software and policies enabling interactive usage



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Thank You

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