

Interactive Computing E-Infrastructure
Public Information Event



Co-funded by
the European Union



Cineca Infrastructure

Giuseppe Fiameni

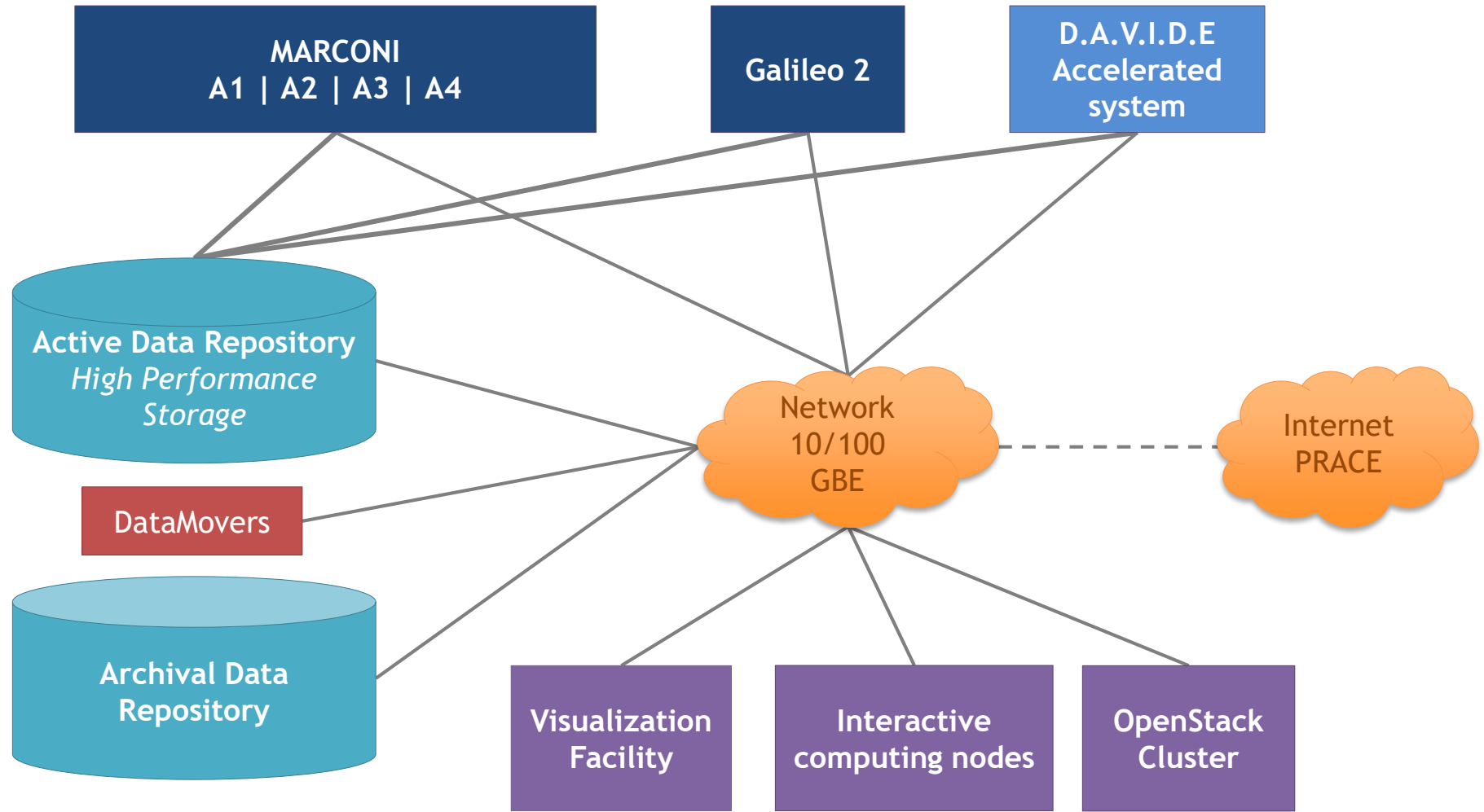
Barcelona

15 March 2018

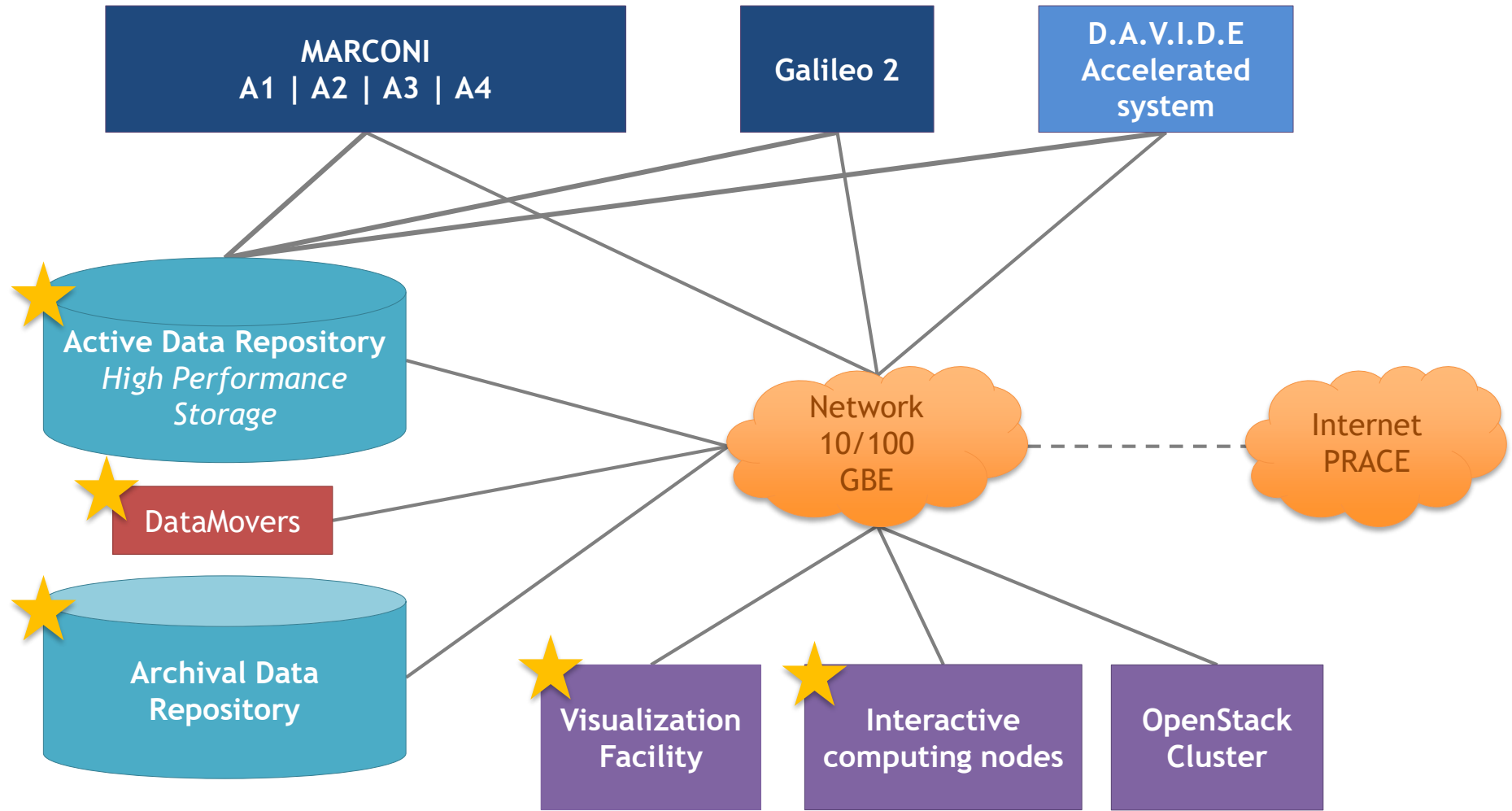
Disclaimer

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

Infrastructure Logical View



Upgrades | New components ★



New components

Interactive Computing Cluster/Open Stack Cluster/Visualization Facility

- Cluster resources capable to support interactive sessions, i.e. data visualization, data processing, analytics, etc. while ensuring high user experience and fast access to data
- Target different workloads
- Partially equipped with Graphic Cards (GPUs), High-Capacity Memory, Non-volatile memory (NVDIMM/NVMe/...)
- Guarantee efficient and flexible use of the resources by supporting applications containerization and/or resources virtualization (in combination with the OpenStack Cluster)

Archival Data Repository

- High capacity storage area for data deposit, sharing and long-term archiving
- Accessible through different protocols, including - but not limited to - HTTP/SWIFT (support for REST API)
- Support for OpenID Connect and OAuth 2 protocols for users access to data and clients authentication

New components (cont.)

Active Data Repository

- High Performance/High Capacity/Expandable storage area for intensive I/O
- Support mixed I/O workloads balanced between sequential and random access (high IOPs)
- Fully interoperable with the Interacting Computing cluster

Data Movers/Transfers

- Potentially multi-protocol based system to ensure efficient data movement across repositories within the centre and the FENIX federation
- Based on ICEI R&D results



Co-funded by
the European Union



Thank You

www.Fenix-ri.eu

