

IJS Report

May 2025

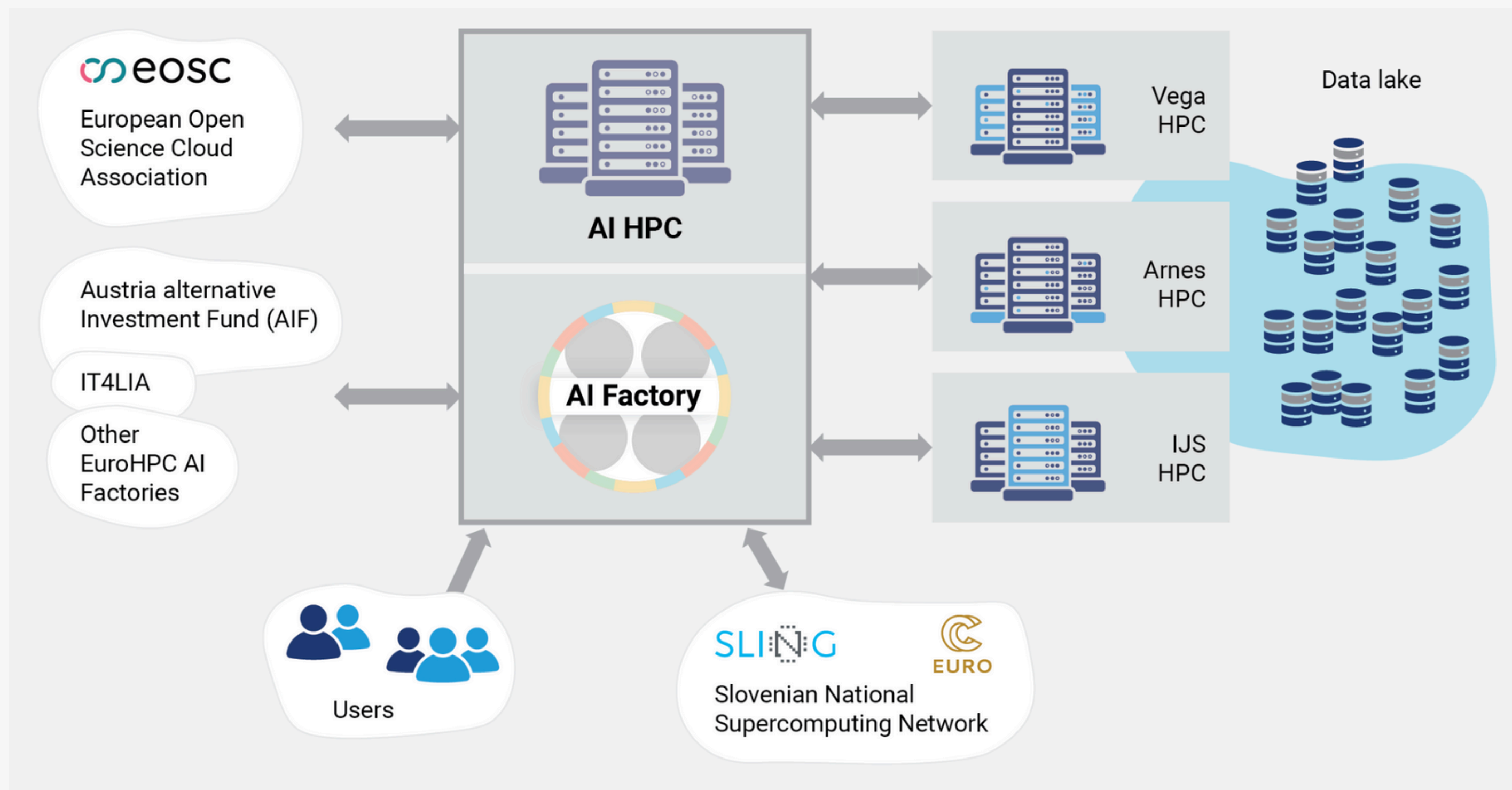
Resources

- compute
 - IJS (SiGNET, NSC) 6,720
 - Arnes 9,216
 - Vega 261,888
- storage (dCache)
 - IJS 6.3 PB
 - TO-DO: convert to smaller pool server VMs
 - Vega ~6 PB
- network connectivity
 - IJS 100 Gbps
 - Arnes 100 Gbps
 - Vega 5 x 100 Gbps

Status and plans

- high failure rate on 16 TB WD disks
- Toshiba disk firmware upgrade bug
 - unnecessary SCSI bus resets
- Ceph gets stuck on scrubbing
 - manual interventions
- (single) disk failure leaves dCache pool stuck
- various upgrades pending
 - Ceph Squid (19.x)
 - Alma 9
 - ARC 7
- Vega successor

Vega next



Vega next (cont.)

- planned production in 2027
- preliminary draft
 - general purpose CPU ~ 150-200 k cores
 - GPU (AI) 1.5-2 k
 - fast storage ~ 10 PB
 - large capacity ~ 100 PB
 - interconnect ~ 800 Gbps
 - connectivity to outside 1.2 - 1.4 Tbps

