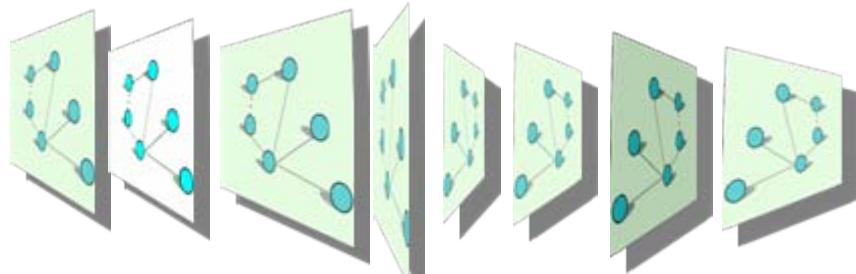



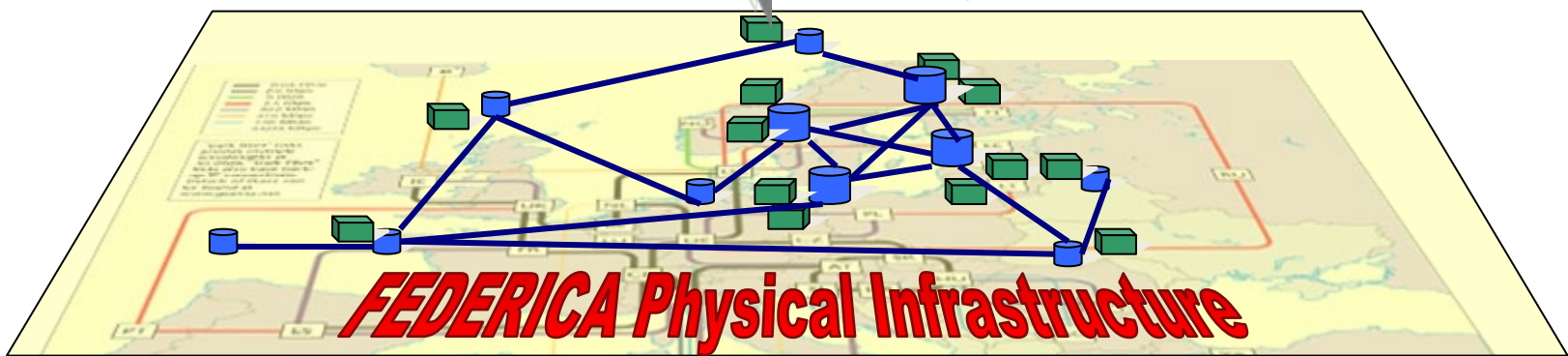


FEDERICA. an e-Infrastructure on NRENs e-Infrastructures

Virtual Infrastructures (slices)



-  Router/Switch
-  Host for Virtual nodes
-  Raw Ethernet 1Gbps (Fiber later)

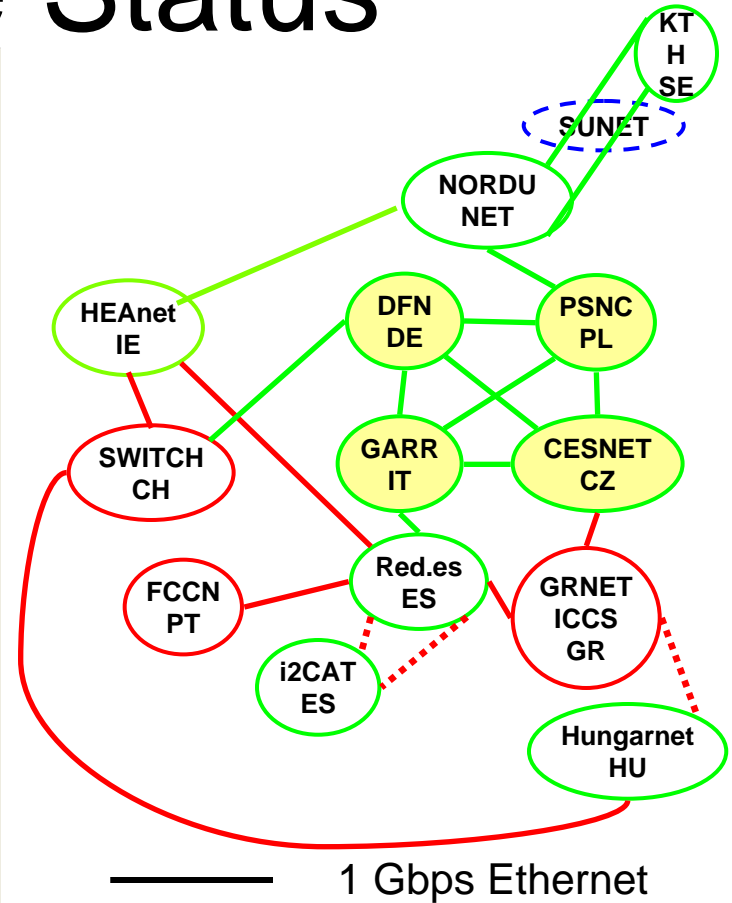
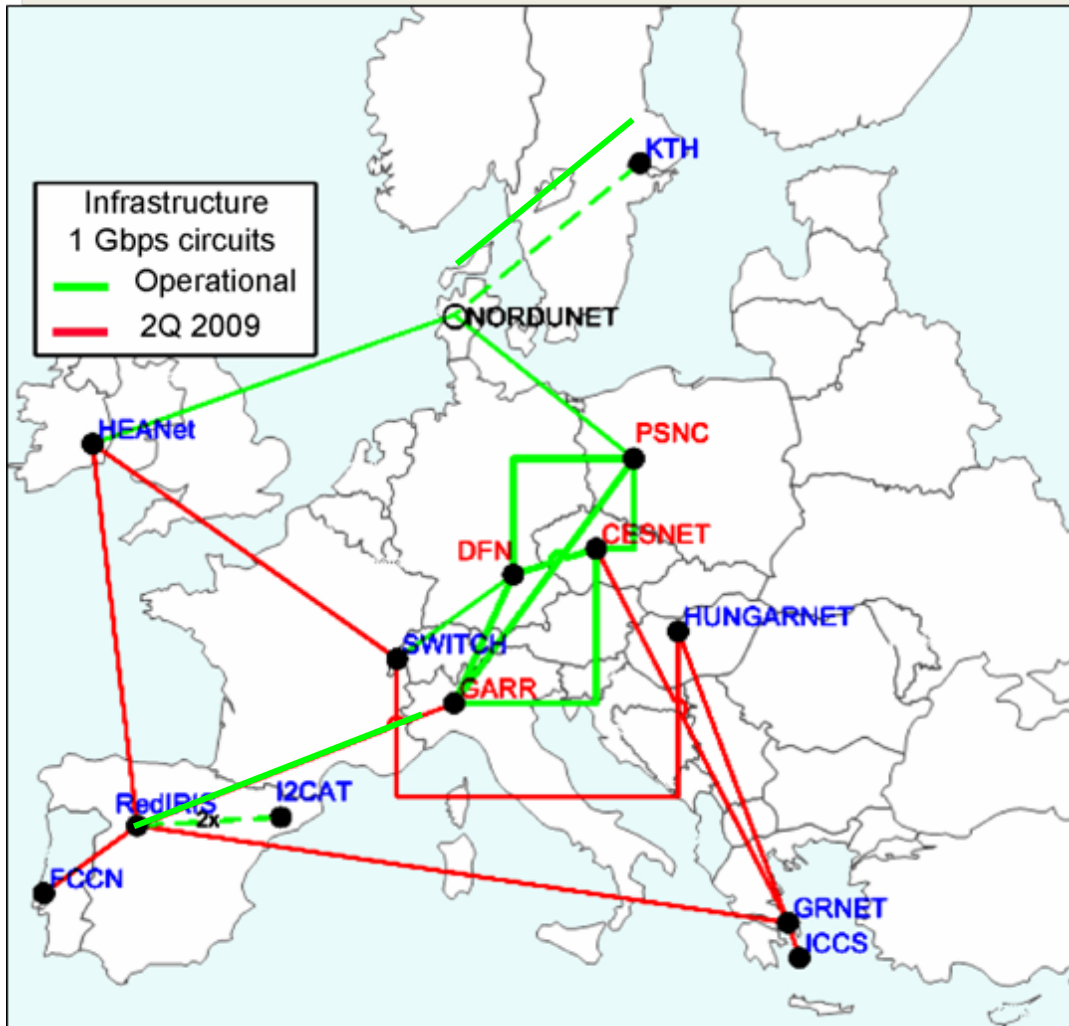


FEDERICA Physical Infrastructure



GEANT2 and NRENs Infrastructure

Infrastructure Status

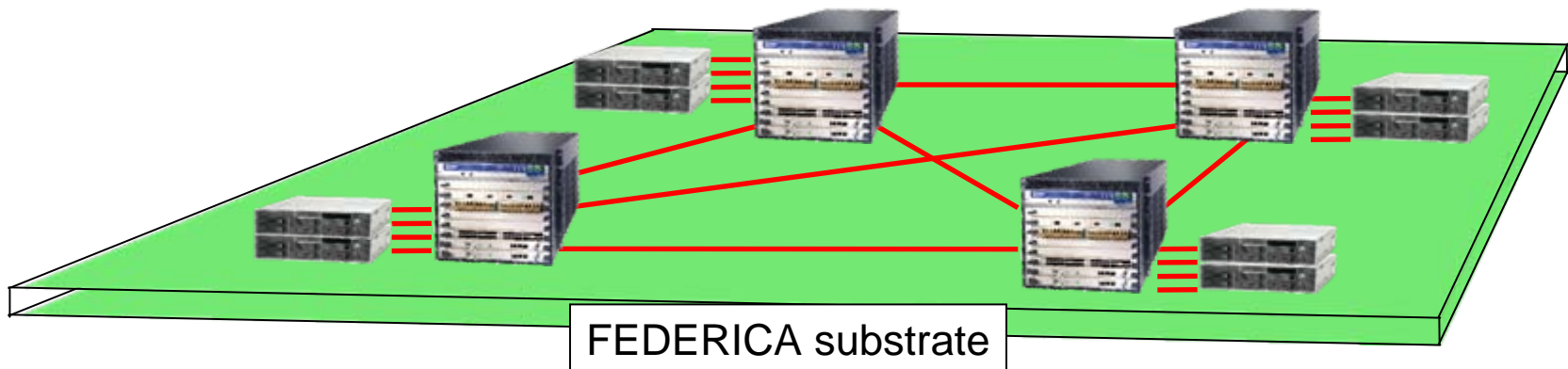


Each core PoP is equipped with a switch/router (Juniper) and two or more V-Nodes

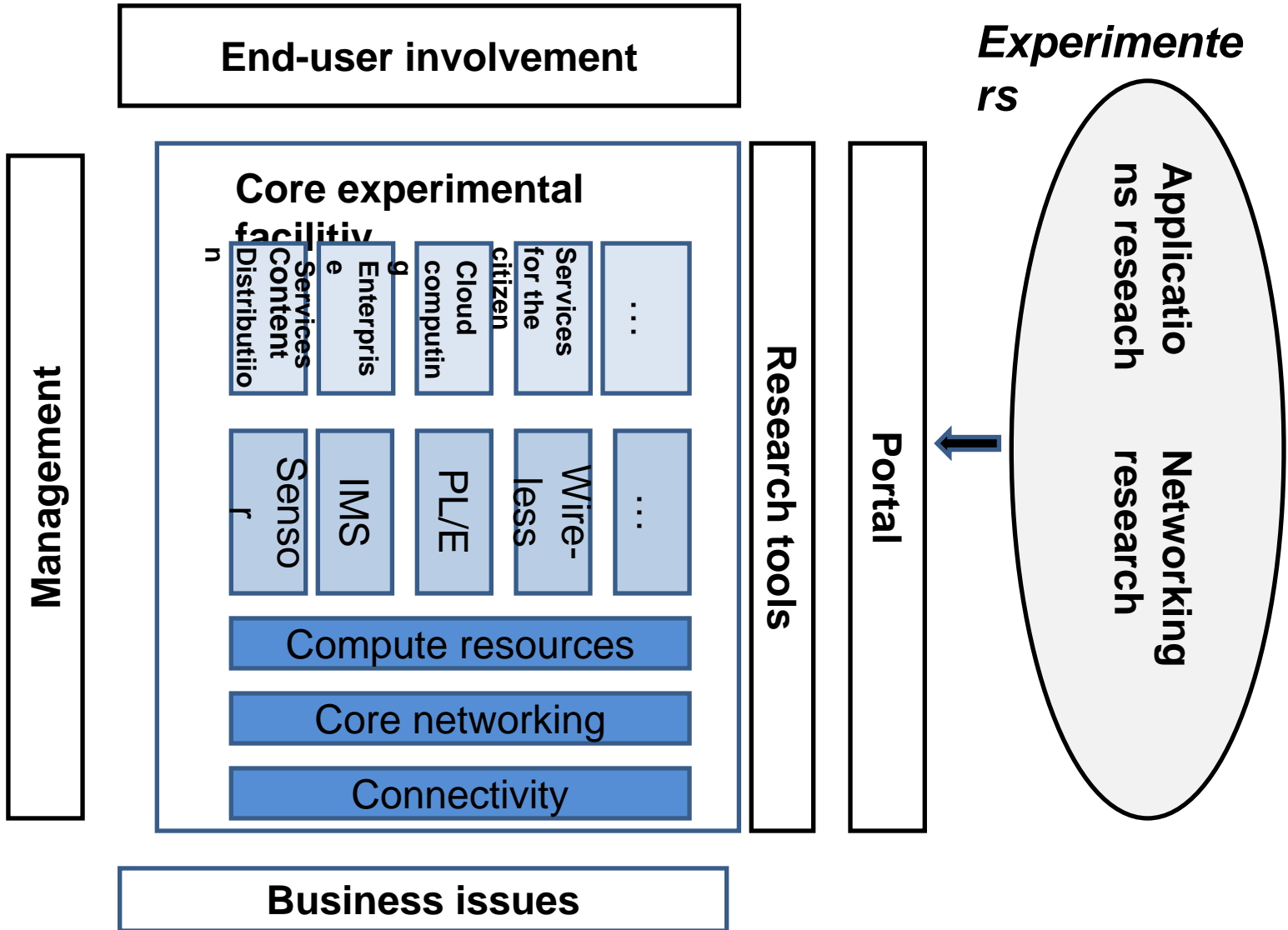
The Core Substrate - HW

Switch: Juniper MX480, Dual CPU, 1 line card with 32 ports at 1Gb Ethernet. Virtual and logical routing, MPLS, VLANs, IPv4, IPv6, 2 of the 4 line cards have hardware QoS capabilities)

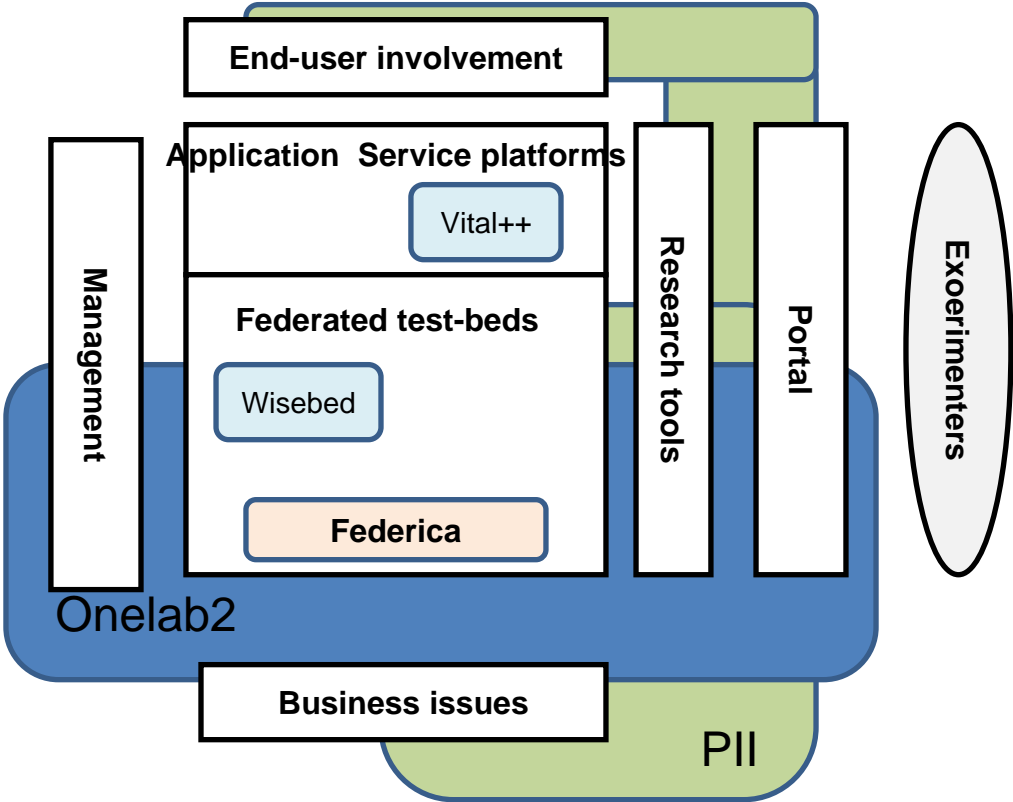
V-Nodes: each is a 2 x Quad core AMD @ 2GHz, 32GB RAM, 8 network interfaces, 2x500GB disks, Virtualization SW



Fire extended project view



Map of existing prototypes to basic structure



Fire extended project view

