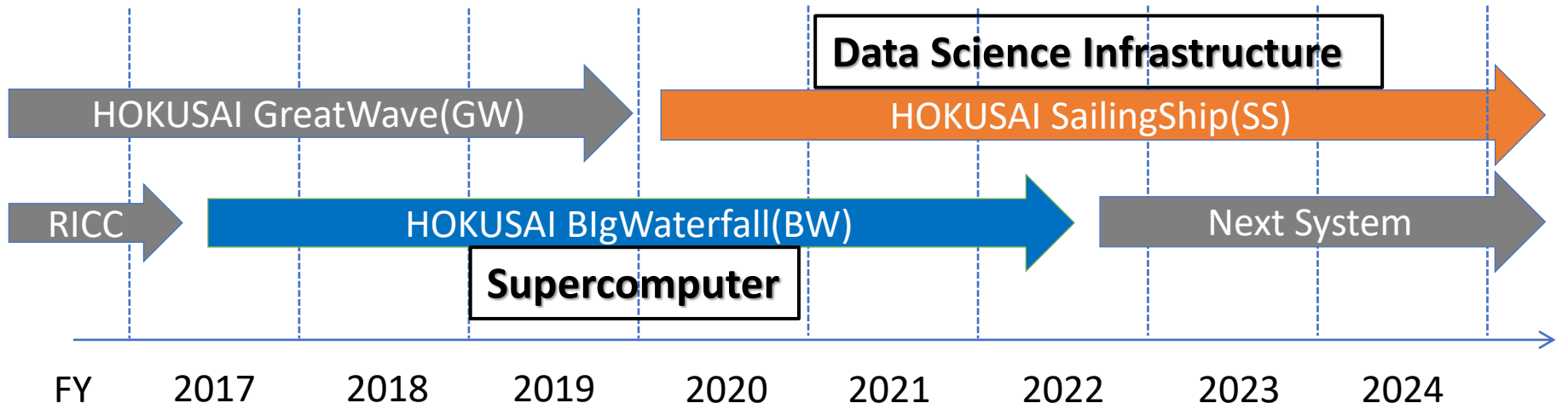


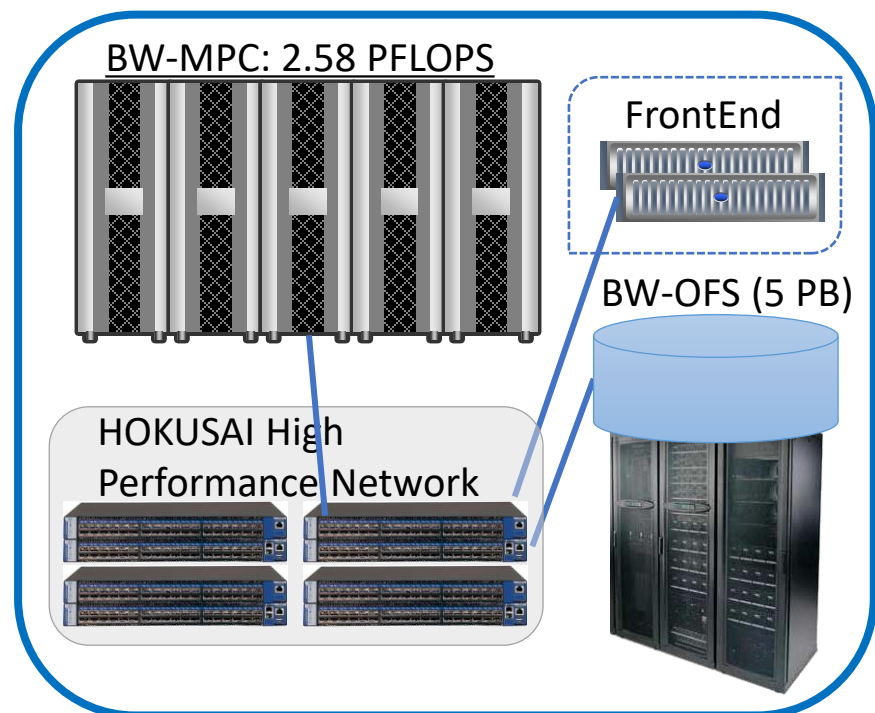
Shared use computers HOKUSAI

- RIKEN is Japan's largest comprehensive research institution renowned for high-quality research in a diverse range of scientific disciplines.
- The purpose of HOKUSAI is to contribute to scientific and technological research, and data processing and publishing by RIKEN researchers.
 - Used by more than 400 RIKEN researchers
 - Fields: Particle and nuclear physics, Condensed matter physics, Physical Chemistry, Biophysics, Bioinformatics, and Others



• HOKUSAI BigWaterfall (BW)

- BW-MPC: 840 nodes, 2.58 PFlops
 - CPU: Xeon Gold 6148, 2.4 GHz, 40 cores/node
 - Memory: 96 GB/node, BW 255 GB/s/node
 - Interconnect: Infiniband EDR, Fat tree
- Storage
 - Online storage (OFS): 5PB, FEFS
 - Hierarchical Storage (HSM): 300 TB (cache disks), 7.9 PB (tape)



• HOKUSAI SailingShip (SS)

- CPU farm: 440 nodes, 1.62 PFlops
 - CPU: Xeon Platinum 8260, 2.4 GHz, 48 cores/node
 - Memory: 384 GB/node, 281 GB/s/node
 - Disk(SSD): 1.92TB
 - Interconnect: 10 GBBASE-T x 2
- Data farm
 - 30PB, Lustre files system
 - NFS/CIFS/S3 gateway
- Private Infrastructure as a Service (PlaaS)
 - Mirantis Cloud Platform (MCP)
 - Commercial distribution of OpenStack that can provide VM, container and bare metal environment

