Available compute platforms @ DESY
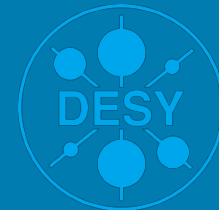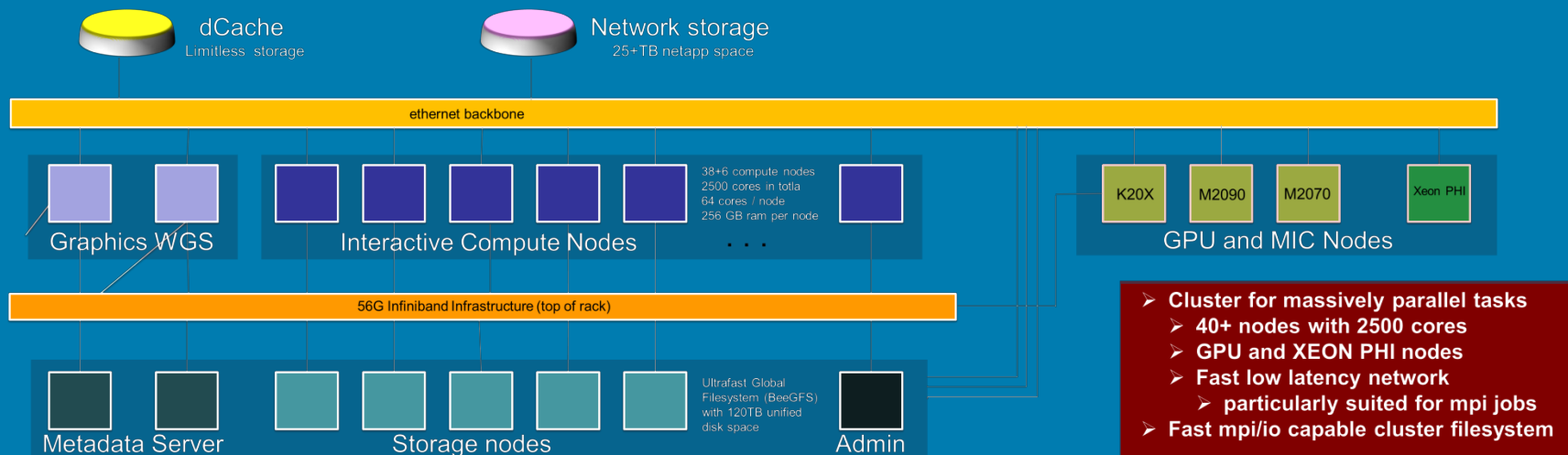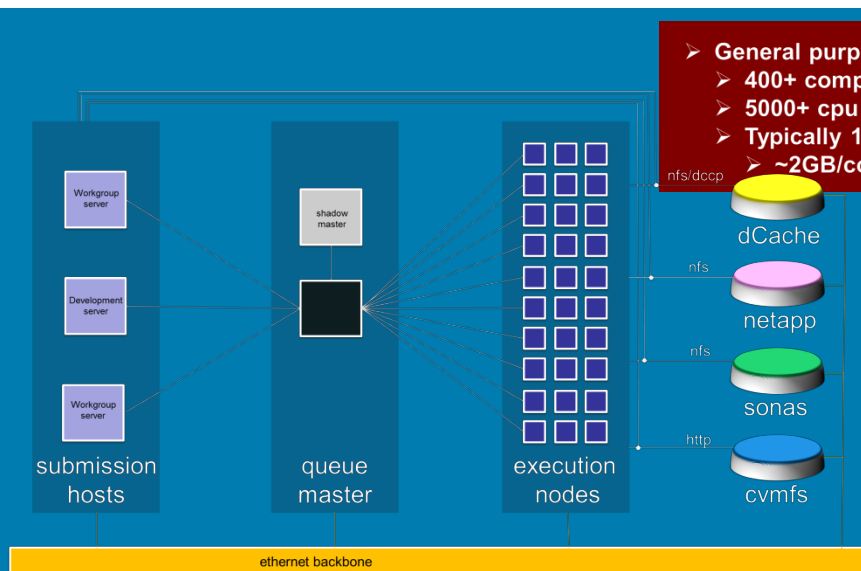

HPC

dCache
Limitless storage

Network storage
25+TB netapp space

ethernet backbone

Graphics WGS

Interactive Compute Nodes

38+6 compute nodes
2500 cores in totla
64 cores / node
256 GB ram per node

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K20X M2090 M2070 Xeon PHI

GPU and MIC Nodes

56G Infiniband Infrastructure (top of rack)

Metadata Server

Storage nodes

Ultrafast Global
Filesystem (BeeGFS)
with 120TB unified
disk space

Admin

> **Cluster for massively parallel tasks**
> > **40+ nodes with 2500 cores**
> > **GPU and XEON PHI nodes**
> > **Fast low latency network**
> > > **particularly suited for mpi jobs**
> **Fast mpi/io capable cluster filesystem**

BIRD

Workgroup server

Development server

Workgroup server

submission hosts

shadow master

queue master

execution nodes

> **General purpose batch farm**
> > **400+ compute nodes**
> > **5000+ cpu cores**
> > **Typically 16-24GB/host**
> > > **~2GB/core**

nfs/dccp
dCache

nfs
netapp

nfs
sonas

http
cvmfs

GRID

> **10000+ cores at DESY**
> **Support for many VOs:**
> > **atlas, cms, calice,**
> > **belle, lhcb, biomed …**
> **Part of the WLCG**

Wide area network (WAN)

ethernet backbone