

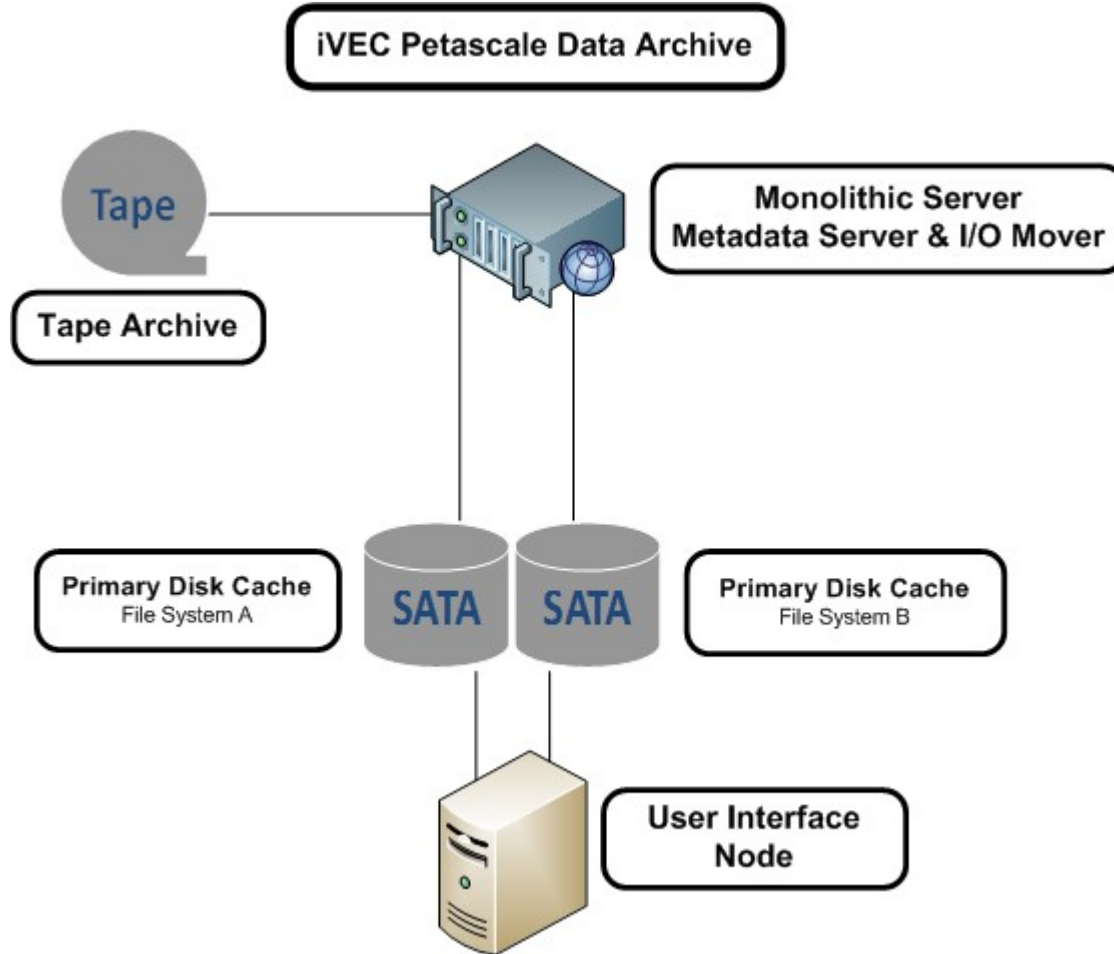
Lessons learnt & Where are we going?



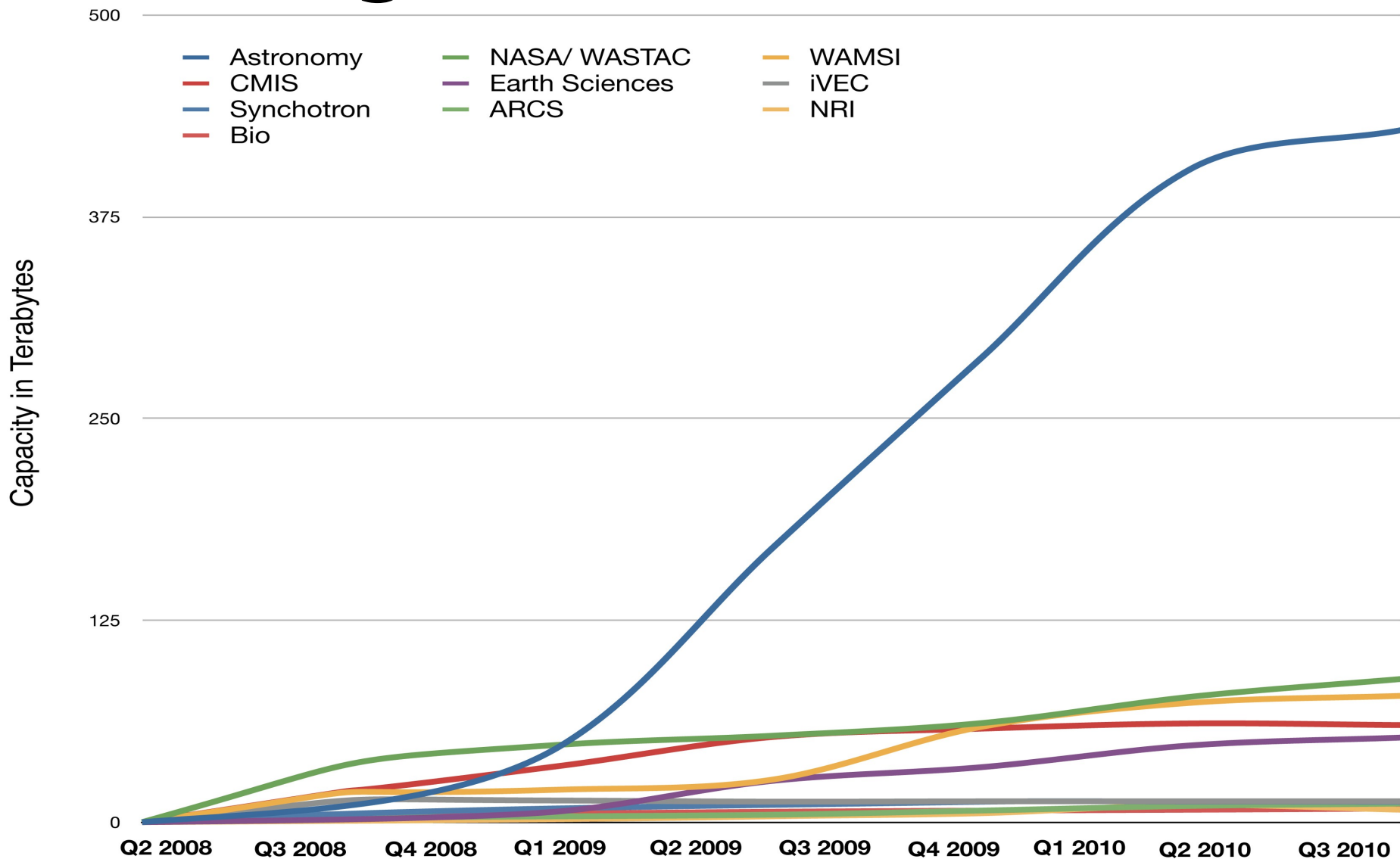
Robert Mollard
iVEC Petascale Data Store
Manager



Original Design View (2007)



Largest Growth Areas

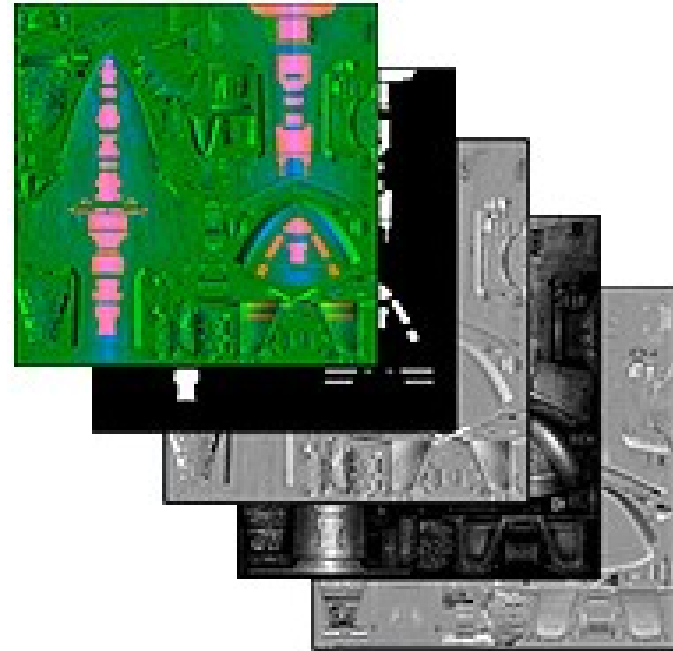


With Growth comes Pain!

- Data Archive Vs Active File System
- File System Performance
- Understanding user work flow
- User Interface & Transfer Protocols



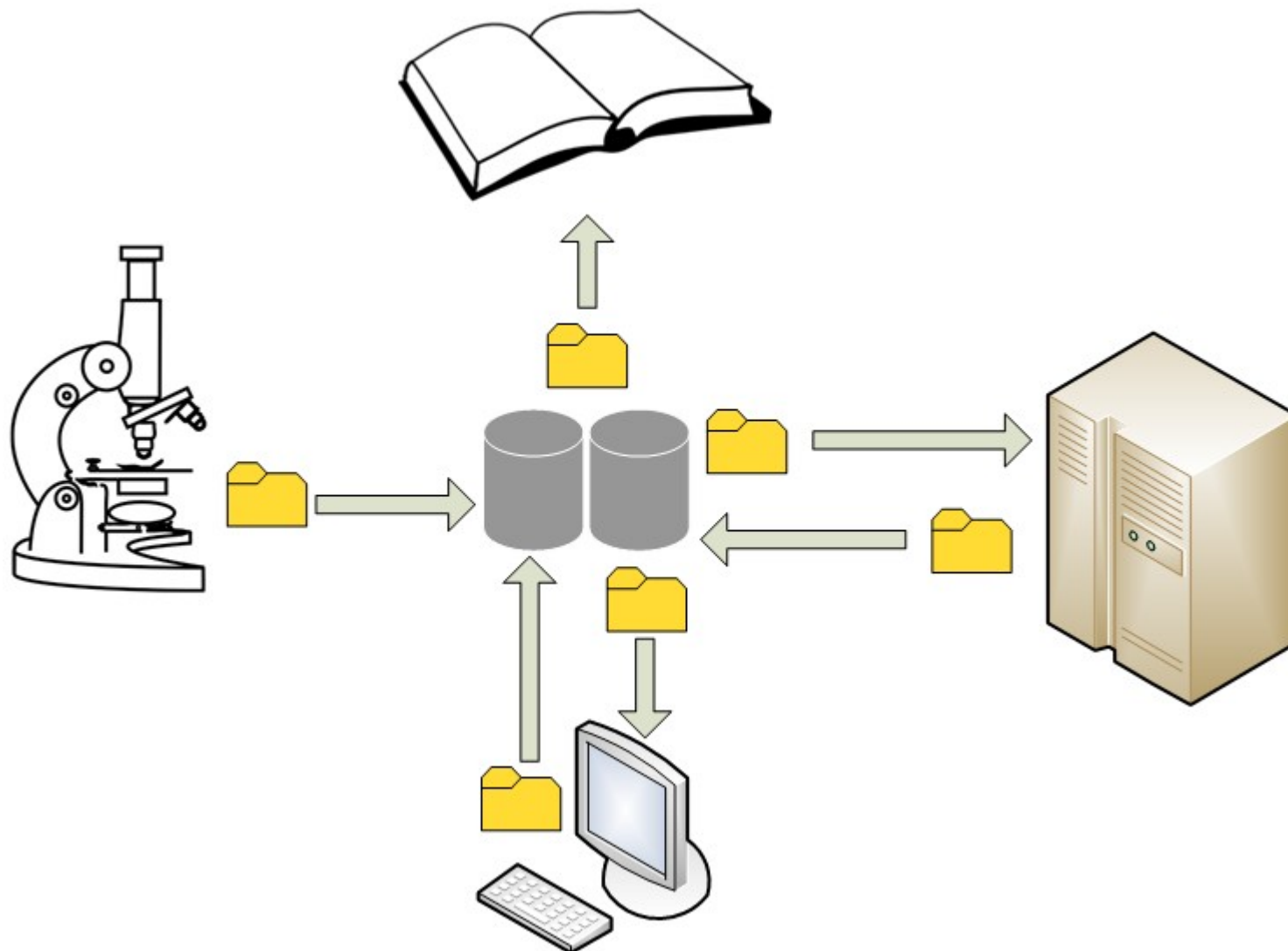
Data Archive Vs Active File System



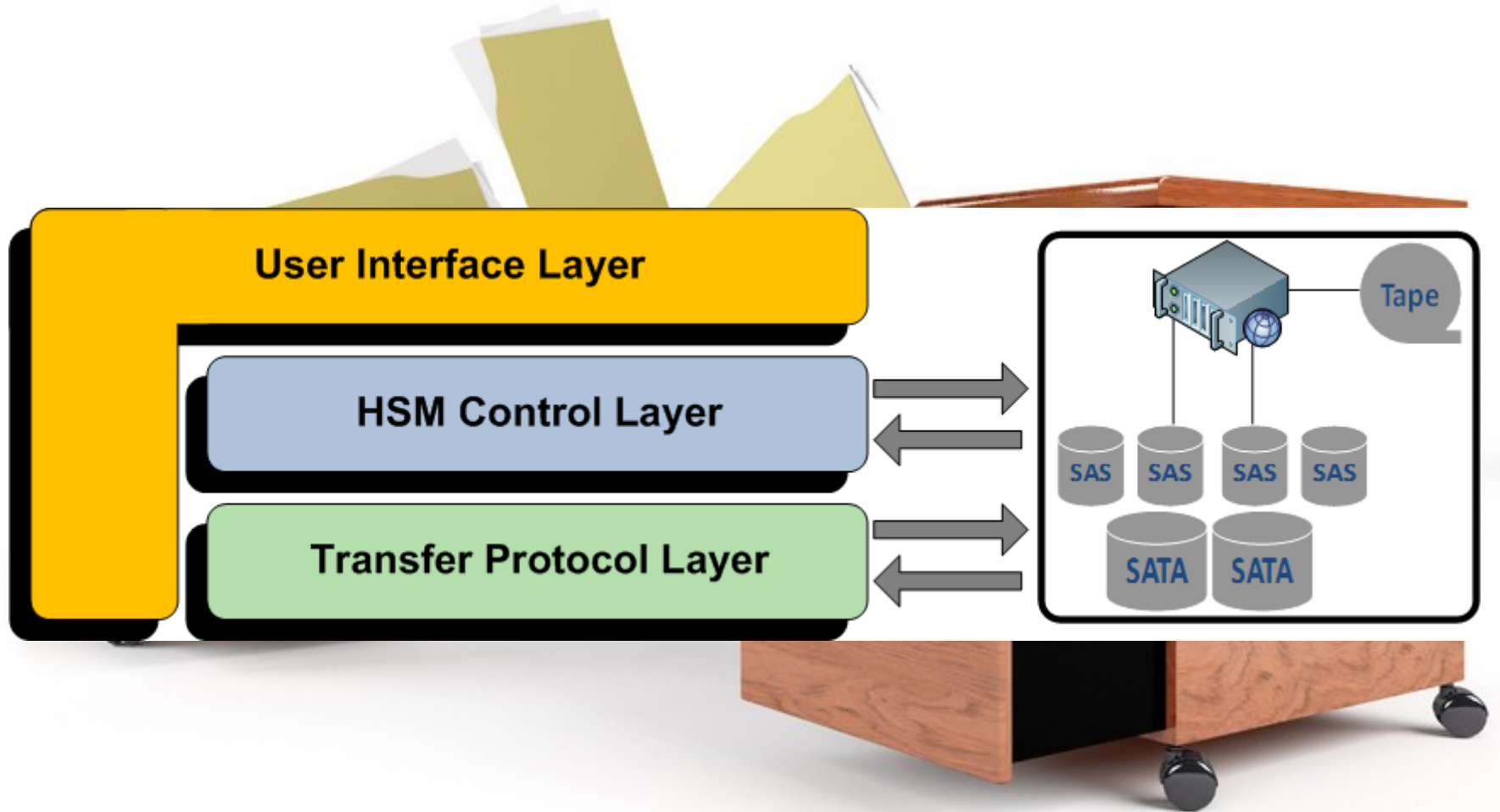
File System Performance

- Dealing with 100's of millions of files
- Dealing with huge file sizes > 1TB
- Dealing with 10's of millions files < 16kb
- Throughput & Latency
- Managing simultaneous user requests

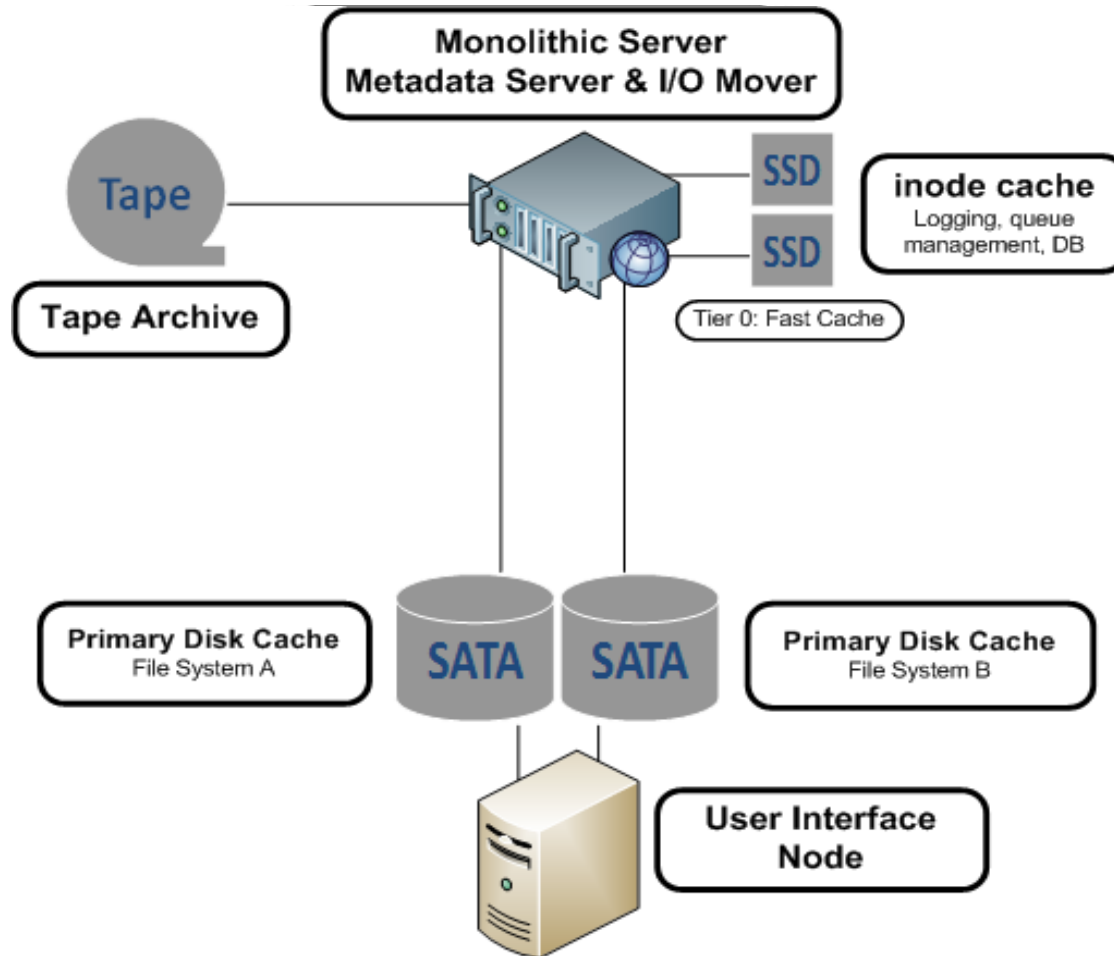
Understanding user work flow



User Interface & Transfer Protocols



Original Design View (2007)

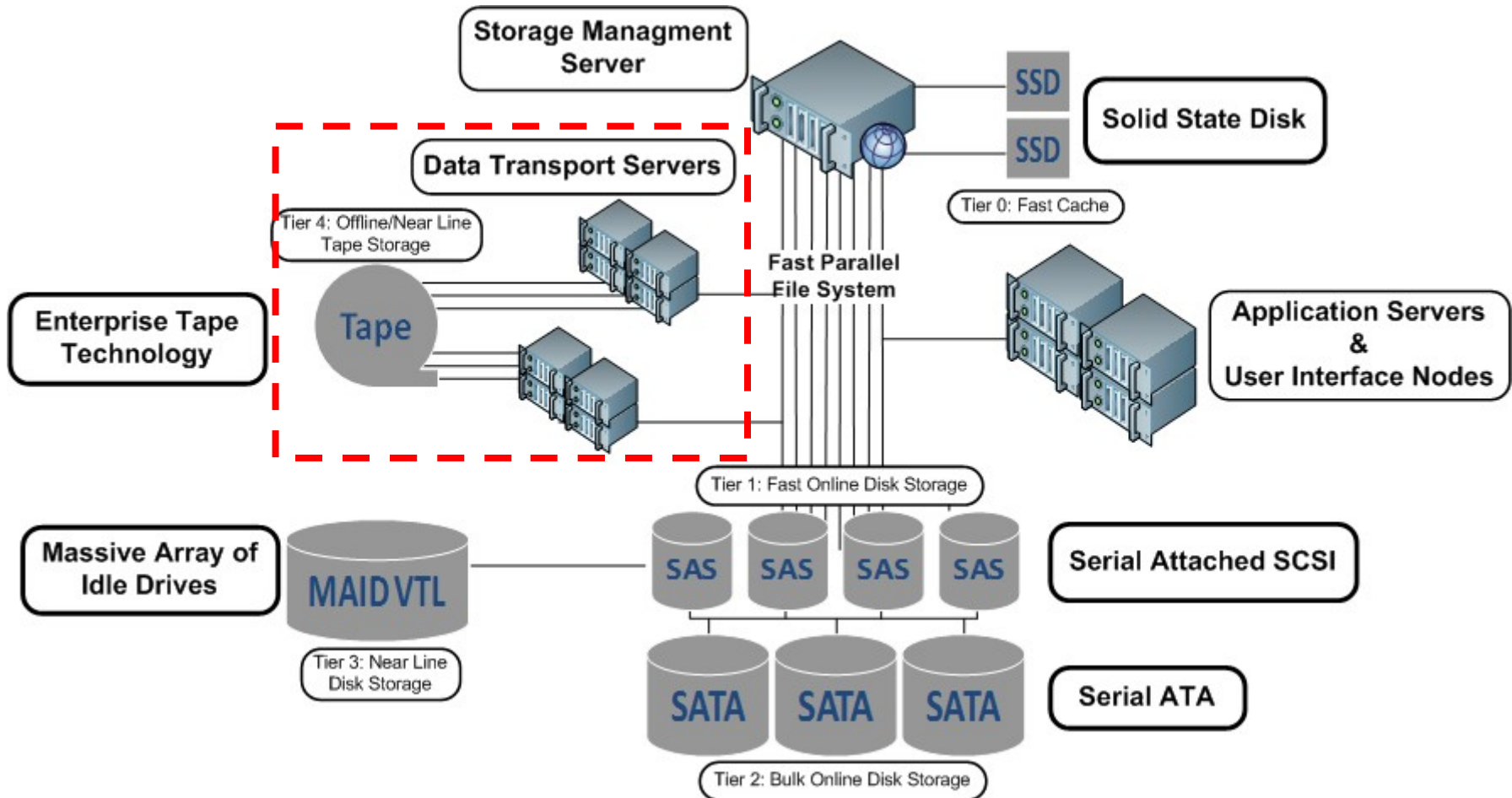


The Pawsey Supercomputing Centre

The Pawsey Supercomputing Centre

Designing for the Future...

Highly Scalable Storage System



Designing for the Future...

Highly Scalable Throughput

