

User Support of WLCG Storage Issues

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WLCG Collaboration Meeting

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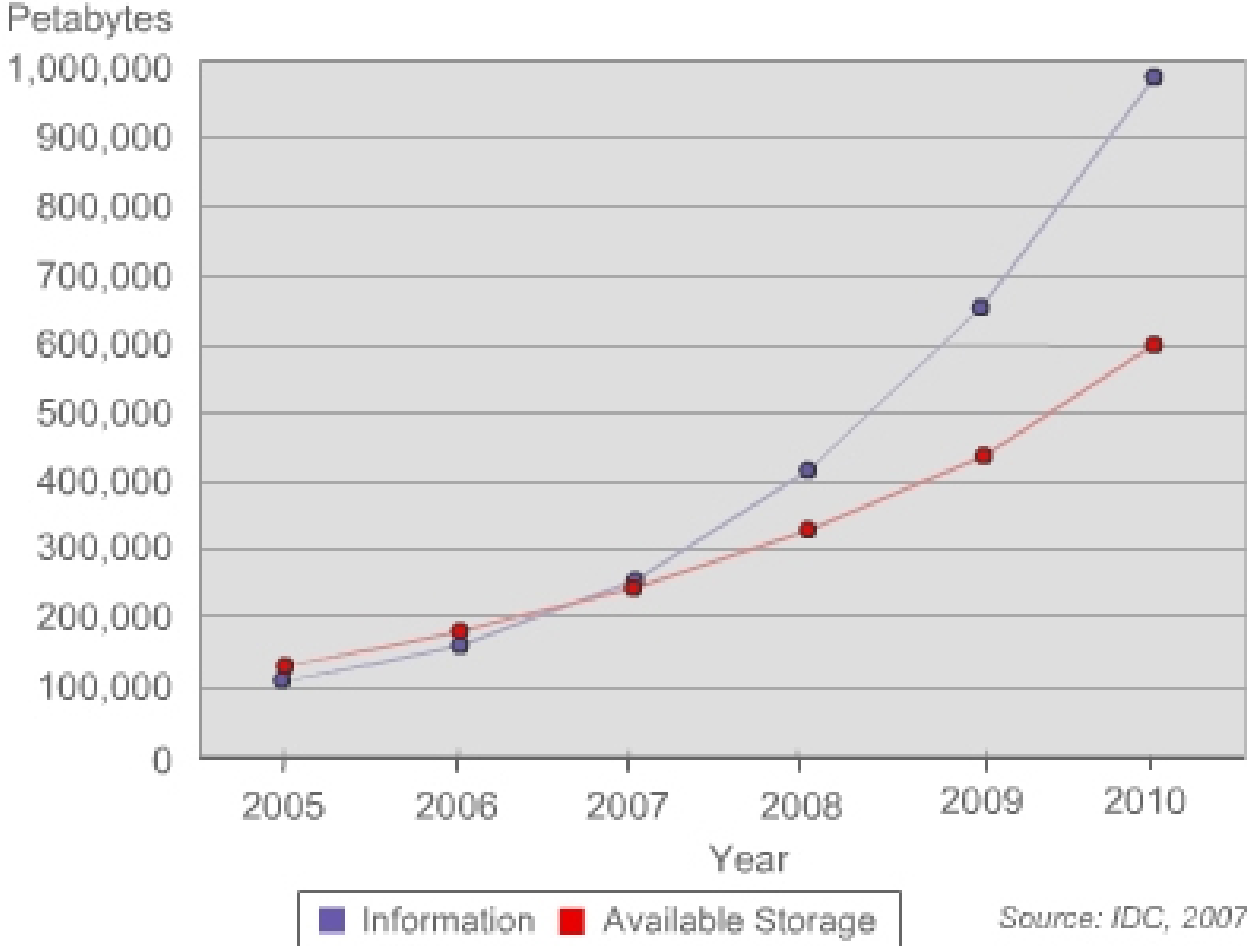


Storage



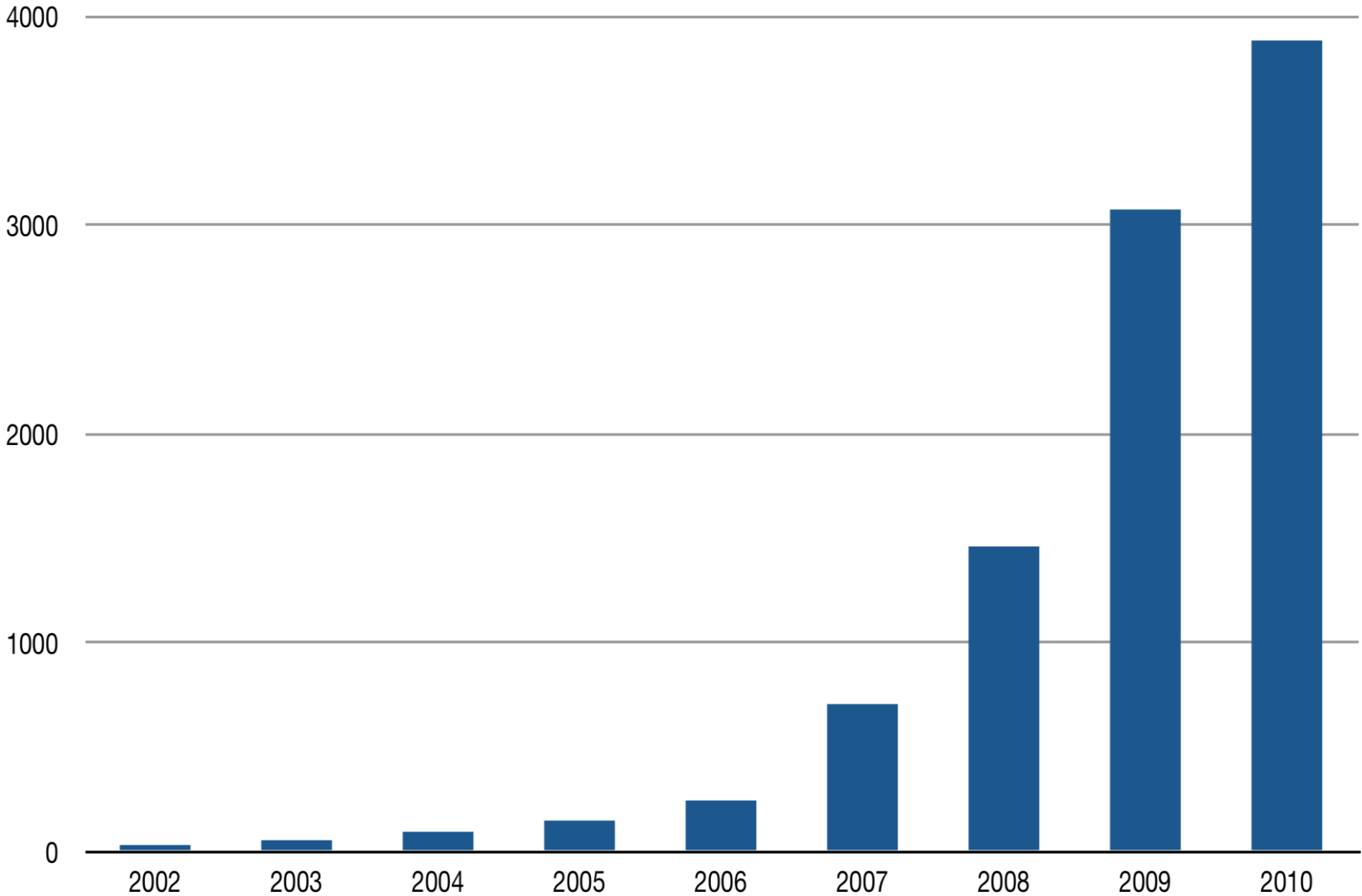


Storage





Aggregate Storage in IU HPSS





User Issues

- **Install VDT client tools**
- **Use Information Systems for available space**
- **Ask for space if the need is large**
- **Find endpoints**
- **Test availability**
- **Maintain acceptable site list**
- **Stage data**
- **Track which input files are where**
- **Direct jobs to sites**
- **Track where output data is**
- **Stage data out**
- **Remove files at completion of project**

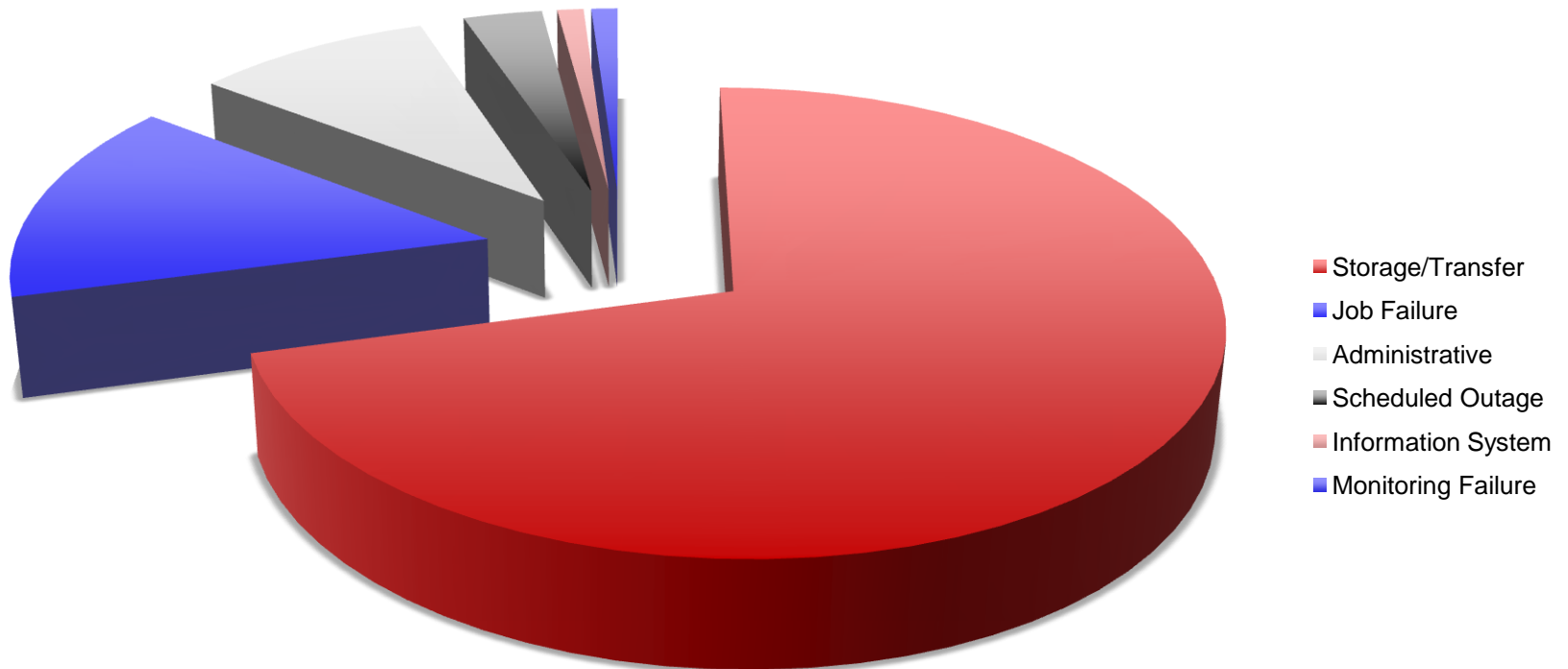


Site Issues

- **Connection/bandwidth abuse**
- **Online data to be used for ongoing research, not archiving**
- **Space and computing fair access to all VOs**
- **Jobs and data transfer design make efficient use of resources**
- **Data is being cleaned up after being used**

WLCG to OSG Tickets Last Quarter

- 96 GGUS Tickets





Support

- Adding Effort for WLCG Tickets
 - Earlier Hours in the US (06:00 EST)
 - Friday Meetings to Review WLCG Tickets
 - Alarm Procedures to be sure Tier1s are alerted
- Web Services Based Ticket Exchange
 - Removes Email Dependencies
 - Improved Alerts on Failure
 - This is in Place Between GGUS and OSG Footprints
- More Communication
 - Daily Attendance at the WLCG Ops Meetings
 - Discussion of WLCG Items at the OSG Operations and Production Meetings
 - Heavy Interactions with EGI SAM and GGUS Groups



Infrastructure

- The real story is not what we are doing, but what we are not doing
- Continue Service SLA (This is now completed)
 - <https://twiki.grid.iu.edu/bin/view/Operations/ServiceLevelAgreements>
- Effort to Bring OSG Services Not Hosted by the GOC Into the Same Forums as the Indiana University Hosted Services
 - Gratia, ReSS, Engage MM, Others
 - Operations and Production Meetings
 - GOC Notifications
- Change Management
 - Scheduled Release Periods
 - Change Management Review
 - Community Notification Revisited
 - Determining What Needs to Be Done and What Needs to Not Be Done



Storage Support

- **Issues**

- FTS is a black box to us
- OSG Ops has at various times set up a test SE but without lifelike scenarios this is not very helpful
- OSG Storage Group does not see most WLCG tickets

- **Questions**

- Are reported storage issues getting resolved in a timely manner?
- Are all storage issues being made into tickets?



- QUESTIONS?