# Topics for Discussion

# Tier 3 Site Configuration

- Fred suggests that all Tier 3 consider getting a squid server – helps with DB access

- **Fred will provide a wiki page what he had done to use DB's at IU Tier 3 (note needed for all sites)**

- Clear that we must plan for a variety of site configurations and to be adaptable to using opportunistic resources on campus.

  - Can VM's help?

- OSG sites sites require local scratch – Diskless system problematic

# Storage Configuration

- Some sites will use distributed storage (storage and worker nodes mixed)

- Others will use storage on file servers

- **Should we recommend XROOTD for both?**

- Do sites need need to have an SRM? If so what about authentication issues (GUMS/ gridmap file)

# Virtual Machines

- OSU has had excellent luck with VM on modern hardware.

- Atlas Canada has shown that they can provide a VM that can run Atlas software using VM player.  - Merging effort with CERN VM

- UTA – making excellent progress on using VM's for DQ2 site services – will be simplication

- **Do we strongly support CERN-VM and encourage its long term support?**

# Tier 3 Code base

- Atlas Canada has developed straight forward and simple Tier 3 code installation with certified code configuration

- **Should US Atlas collaborate and create such a code stack?**

- What is the minimal code stack we want for Tier 3's (should include storage and monitoring) – support issues

# Storage systems

- **Hiro suggests that SRM code calculate check sums on the fly during copy.**

- Better packing for xrootd monitoring

- Proof Master can be used for catalog Xrootd storage pool.

- **Should we recommend Proof Master along with XRootD?**

# Data transfers

- DDM requires that Tier 3 need to keep track of the data at site if member of Atlas ToA

- This implies extra operational load

- **Need to have "data sink" version of DDM or some other method of getting dataset subscriptions to Tier 3's**

- **Tier 2's need to be able to handle our requests**