



Beyond T1/T2/AF

Ofer Rind (BNL)
Kaushik De (UT-Arlington)

10 June, 2026
US ATLAS @ HTC26

Discussion Topics



Focus of this discussion - what didn't get covered yesterday and today in T1/T2/AF topics?

- HPC operations
- Computing operations
 - ATLAS computing operations support
 - Facility/Site support
 - User/Group support (partly covered by AF team)
- Services Dev/Ops
 - CREST, Frontier/Varnish, Analytics, Agentic Ops
- Facilities R&D
 - Scaling up to HL-LHC
 - New technologies, informing AF design
- Facility Cybersecurity
 - Prompted by TrustedCI and SOC efforts
 - Ramping up currently

HPC Discussion



- We need dedicated discussion on this topic
- What are the most critical issues?
 - Scaling issues - interactions with PanDA
 - More resources - do we have enough personpower

ATLAS Computing Ops Support



- ADC support
 - Centrally managed in ATLAS
 - US ATLAS contributions are important, especially in management
 - ADC coordinator, DPA coordinators/teams, ADCoS coordinator...
 - US cloud support, daily ops meeting
- Physics production support
 - Centrally managed in ATLAS
 - US ATLAS plays critical roles
 - ProdSys, DPA...
- Well set up and working for US ATLAS?

Facility/Site Support



- ATLAS specific requirements
 - Discussed in facilities meetings
 - But managed/implemented site by site
- Expertise is local

User/Group Support



- For data production and group activities
 - ProdSys, DPA - central
- For individual users
 - DAST
 - AF support
 - Exciting possibilities with genAI/LLM

Scaling up to HL-LHC



- Many R&D efforts during the past 7 years to prepare for HL-LHC luminosity
 - Waiting for TDR to define products to deploy
 - US ATLAS will play critical role in deployment
- Need to examine and modernize all S&C operations
 - Algorithmic or LLM based or both?
 - Will LLM change site and ATLAS operations model?