

# Introduction

Rob Gardner Computation and Enrico Fermi Institutes University of Chicago

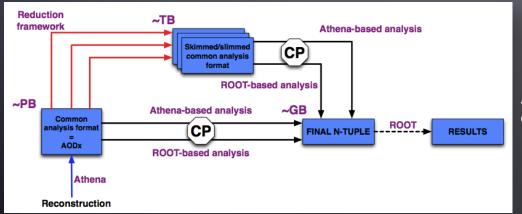
US ATLAS Meeting February 5, 2014





#### IP in the current quarter: FY14Q2

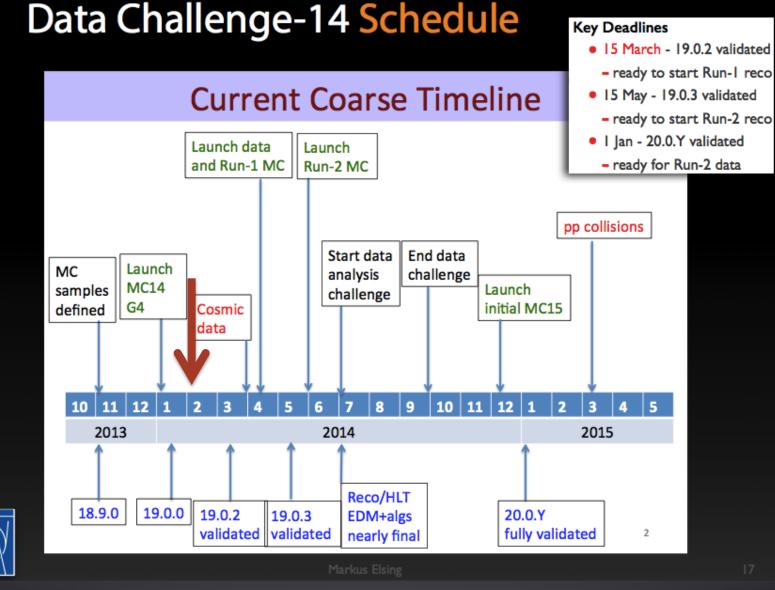
- DC14 Facility readiness and new analysis model
- MCORE: demand & availability
- FAX in production
- Transatlantic 100 Gbps FAX demonstrator
- Flexible IT Infrastructure
- ATLAS Connect User
  - ATLAS Connect Cluster (Tier 3 flocking)



Analysis Model document



## Facility Readiness for DC14.. reminder

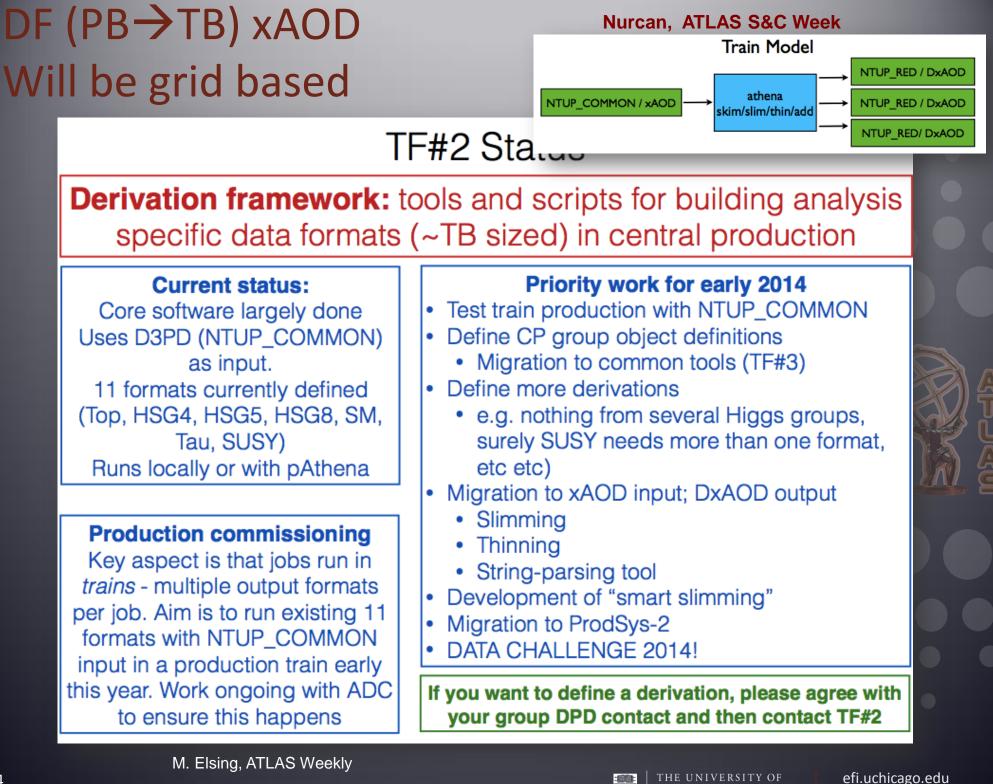


M. Elsing, ATLAS Weekly



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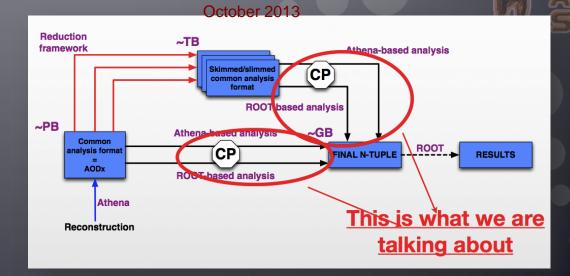
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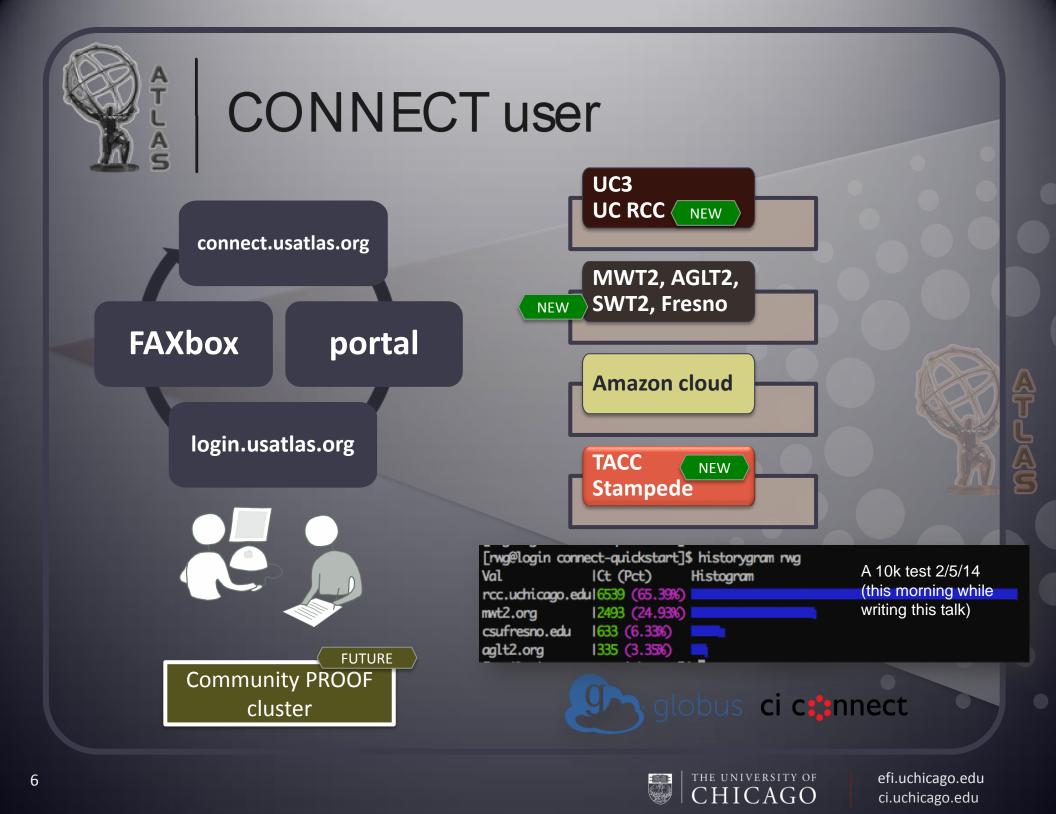
### Supporting analysis in the new model

- There is an effort to build a common framework but a multitude of ROOT-based and Athena-based analyses will still be used.
- How will DF output be managed on DISK(s)?
- What changes in ANALY queues to result from xAOD-based analysis?

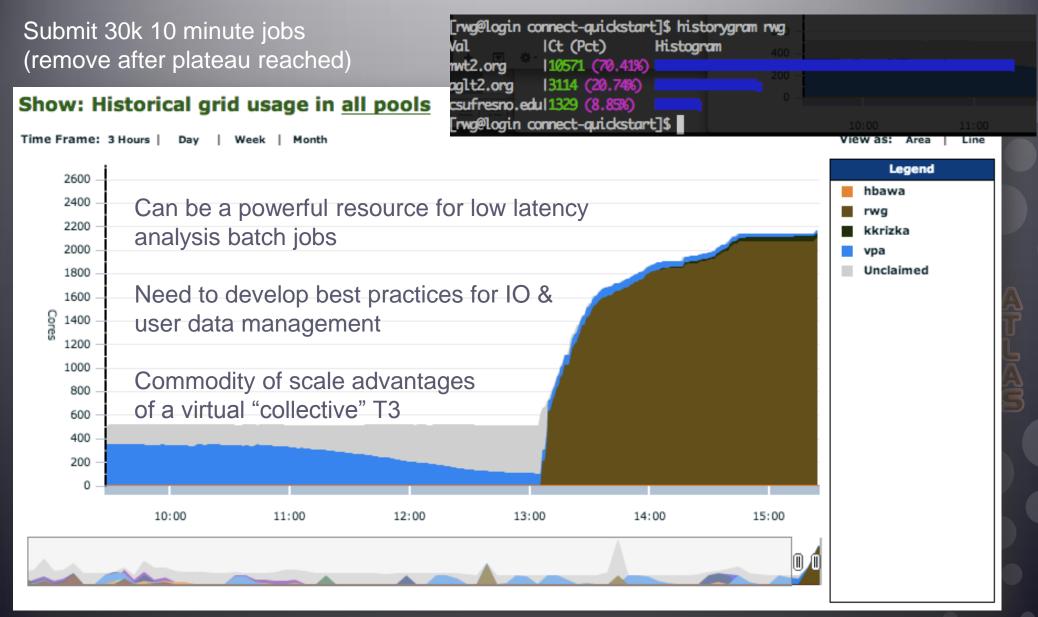
DC14 to help answer these questions







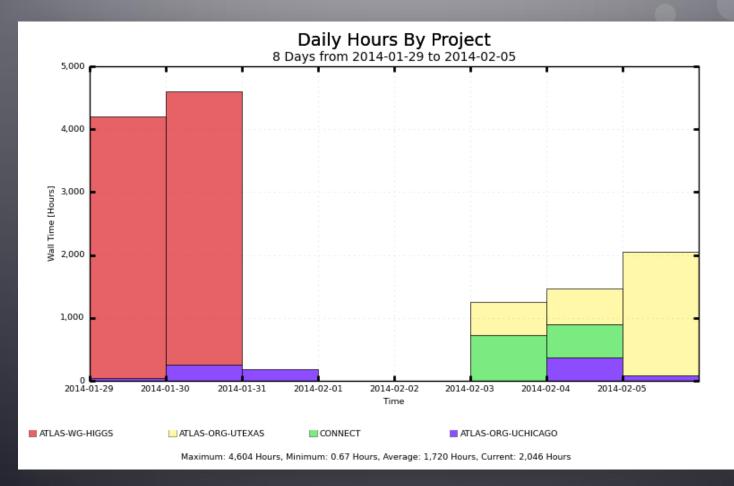
## **Trivial scaling test on ATLAS Connect**





#### **Getting started**

- Accounting: by institution or working group
- Encouraging early adopters to join & test & help develop user documentation





#### **Federated Identity Campaign**

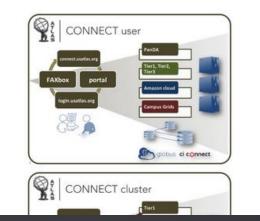
 Working with InCommon (Jim Basney) to get all 44 US ATLAS institutions to provide ISP service (for CI Logon)

← → C A 🗎 connect.usatlas.org		
	ECT Support - Resources - Connect - Sign In/Sign Up -	
Wel	come to ATLAS Connect	Quick, sim

ATLAS Connect is a set of computing services designed to augment existing tools and resources used by the US ATLAS physics community, focusing on batch-like analysis processing familiar to Tier3 users.

#### **ATLAS Connect User Service**

A single sign-on service provides direct institutional and working group access to the US ATLAS Computing Facility, potentially using your campus network identity if your institution participates in the InCommon identity federation. A login host, login.usatlas.org, currently allows HTCondor job submission to: the Midwest Tier2 Center, the Tier3 center at Fresno State University, and the UChicago Computing Cooperative campus grid.



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Quick, simple account provisioning

Ready for this summer's REU students

Also uses personal or campus Globus data service with same ID

#### **Status**

#### ATLAS Connect User

- UChicago RCC cluster added (64 slots). Negotiate for pre-emptible SLRUM queue
- Bosco factory wrappers for Parrot access to CVMFS
  - Testing with ALRB and simple ROOT jobs
- Early stages of TACC Stampede
  - Bosco factory setup
  - Test jobs complete
- APF submit into TACC via Bosco is next step
- Investigate adding NET2, WT2 (firewall issues)
- **ATLAS Connect Cluster** 
  - Currently UC, IU, UIUC Tier3's overflow flocking
  - Adding UT Austin Tier 3 flocking



## **FAX** into production

- With Rucio renaming complete for DE and US clouds its full steam ahead for functional and stress testing
- Continuous functional testing in HC on-going
- Dedicated stress testing
  - Friedrich: H→WW analysis using SMWZ on DE and US
  - Ilija: "deep read" use case with FDR datasets on US cloud (direct access infrastructure test)



#### **Near Term Meetings Schedule**

- Biweekly meetings: Feb 19, Mar 5, Mar 19, Apr 2
- WLCG LHCONE workshop at CERN
  - Feb 10-11, 2014 "Site concerns session"
  - <u>http://indico.cern.ch/conferenceDisplay.py?confld=289679</u>
- ATLAS S&C Week
  - Feb 24-28, 2014

https://indico.cern.ch/conferenceDisplay.py?confld=27649

- US ATLAS Facilities meeting at SLAC
  - April 7-11, 2014, co-located with OSG
    AHhttps://indico.fnal.gov/conferenceDisplay.py?confld=720
  - Agenda details TBD
- Federated data workshop
  - Also co-located with OSG AH (April 10,11)

