DAST: SHIFTER PERSPECTIVE

ALDEN STRADLING
5 DECEMBER 2014





TIME SURE FLIES

Six years, as of September. I am now officially the longest-lived DAST shifter.
☐ There have been ~30 shifters during the 6+ years of DAST
☐ Lots of experience, lots and lots of mission-critical work
☐ A salute to all these, my past and present comrades in arms
Entering a new and complicated era
Run 2! In a couple of months!
☐ DAST will be needed more than ever.
☐ Prodsys 2 ☐ BigPandaMon
□ Rucio □ JEDI





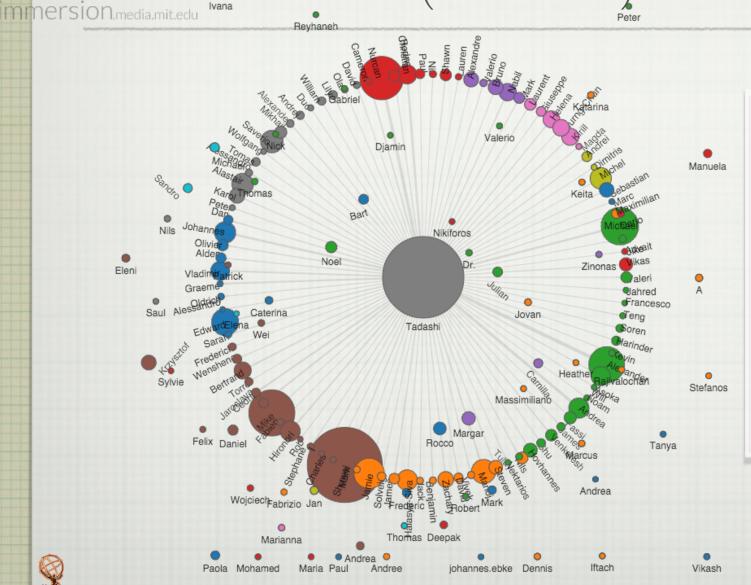
DAYS AND WAYS

☐ Bill has told you HOW a shifter functions.
☐ My goal is to tell you WHY
☐ Developers work a lot better (we have found) when they can code
☐ Coding and support are often difficult to do simultaneously
☐ A growing analysis community will generate growing traffic
☐ The vast majority will be basic!
☐ Answering the same question over and over and over
☐ A large segment of the subtle problems will be peripheral
☐ The failure came from the site or the middleware, etc
☐ The remainder will be actual bugs for the developer!
☐ DAST protects the Developers and Serves the Users (sounds like TRON)



BOTHERING DEVELOPERS





Tadashi Maeno

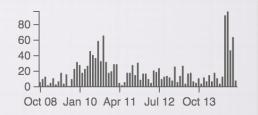
First email: 6.1 years ago

Last email: 26.1 minutes ago

Sent (private): 596 (48)

Received (private): 907 (34)

Interaction volume







HOW HAVE THINGS CHANGED?

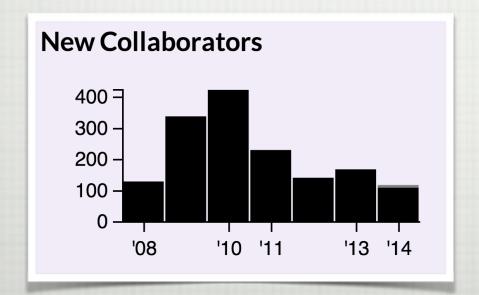
Not that much!
Basic changes (refinements, really):
☐ Less watching over sites and queues
☐ No more clearing/answering Savannah tickets
Same basic tools:
☐ Gmail ticketing interface (since October 2008!)
☐ Categories and coordination since 2010
☐ PanDA monitor (now BigPandaMon)
It's a stable, working system! (taken a bit for granted)
☐ Given basic, adequate manpower

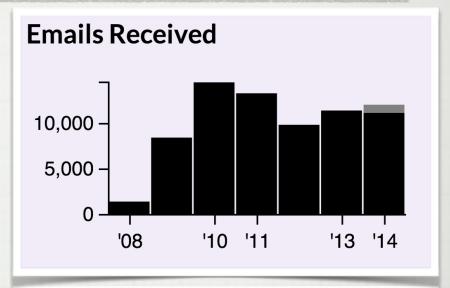


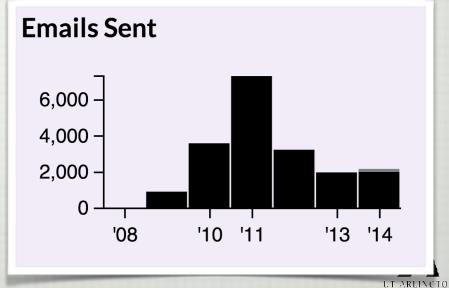


HOW MUCH TRAFFIC?

- ☐ From 1,032 users, we have exchanged 89,448 email since Oct. 2008 (more than 10,000 a year!)
- ☐ Steady average of a couple of relevant emails per working hour









HOW DOES ACTUAL SHIFTER LOAD VARY?

☐ Subjective!
☐ Beginner shifters are overwhelmed for the first couple of weeks
☐ Receives additional support from coordinators and other shifters
☐ More experienced shifters depends on factors
☐ Transitions happening?
☐ Conference season/results?
☐ Usually fairly easy
☐ Unless something major breaks
☐ Subtle bugs handled by the developers and site admins
☐ That's the real workload





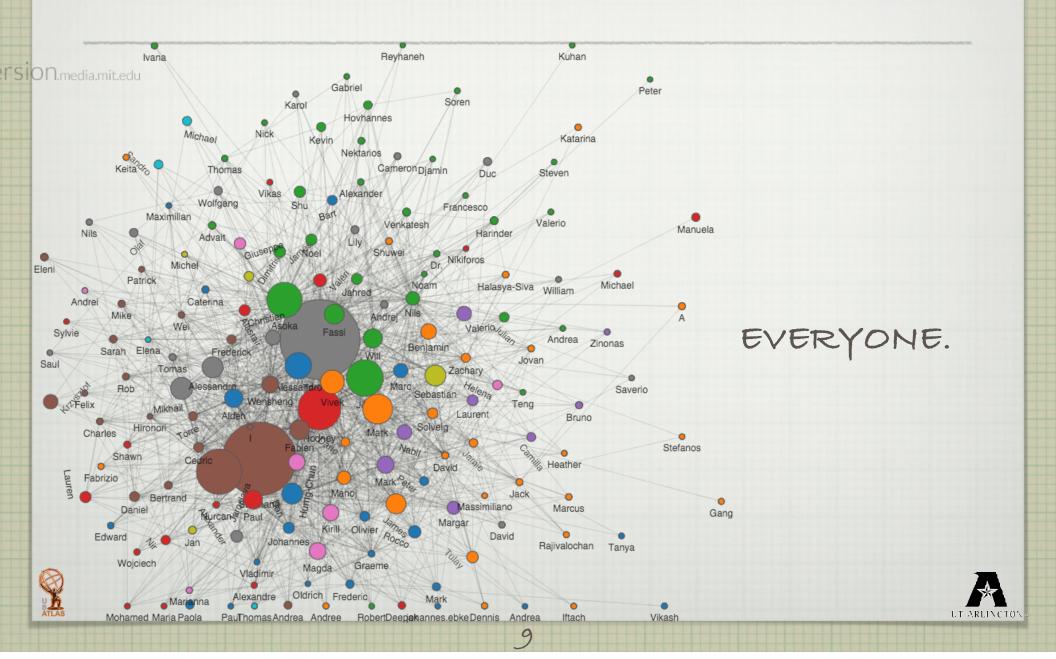
WHAT'S IN IT FOR ME?

	0	TP Credit!
		For those that qualify, this is the cheapest OTP credit you can get, in travel, time and effort.
		Most groups these days need at least a little more money and a lot more OTP (or vice-versa?)
☐ Training!		
		We take experienced analysis users and they become experts in Grid operation and analysis debugging. They see all the errors.
		Interpersonal interactions and patience. (https://twiki.cern.ch/twiki/bin/view/AtlasComputing/BeginningDASTShifterGuide)
	Co	onnections!
		Let's illustrate that





WHO DO YOU GET TO KNOW?



IT'S WHO YOU KNOW

	As you sort out the problems of analysis users, you build relationships with key players in Grid and offline software development and deployment.
	Your job is to learn who does what and pass appropriate problems to the person most able to deal with them!
	☐ So your interactions are frequent and helpful
	As you sort out the problems of members of the collaboration, you expand your sphere beyond the group
	☐ You become a visible and public figure in the collaboration
	☐ If you are a good shifter, you will also accumulate a fair amount of goodwill
	 Exceptional shifters and circumstances have been recognized for their contributions

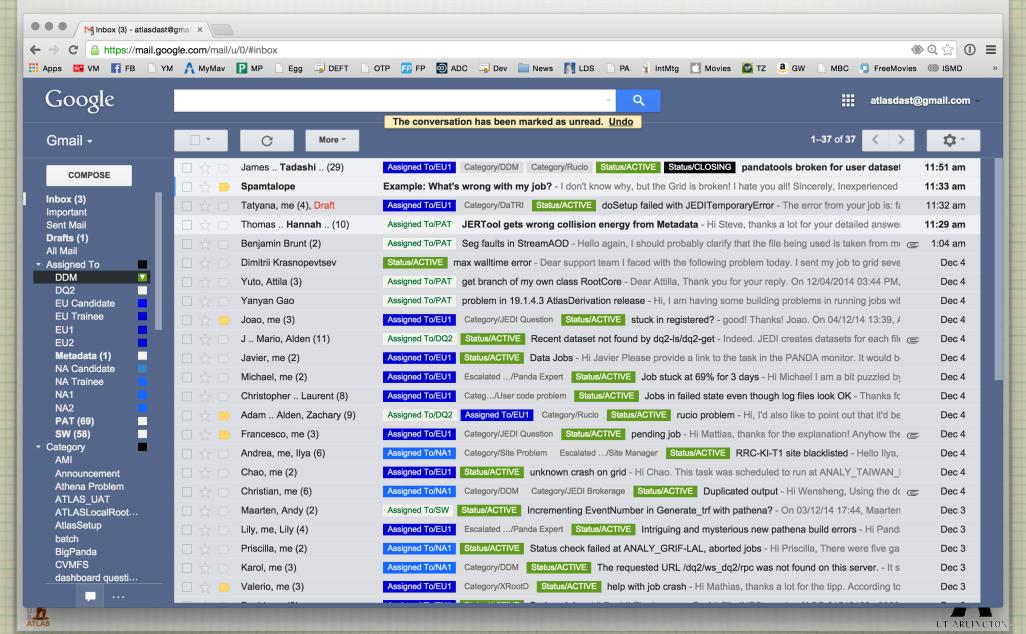


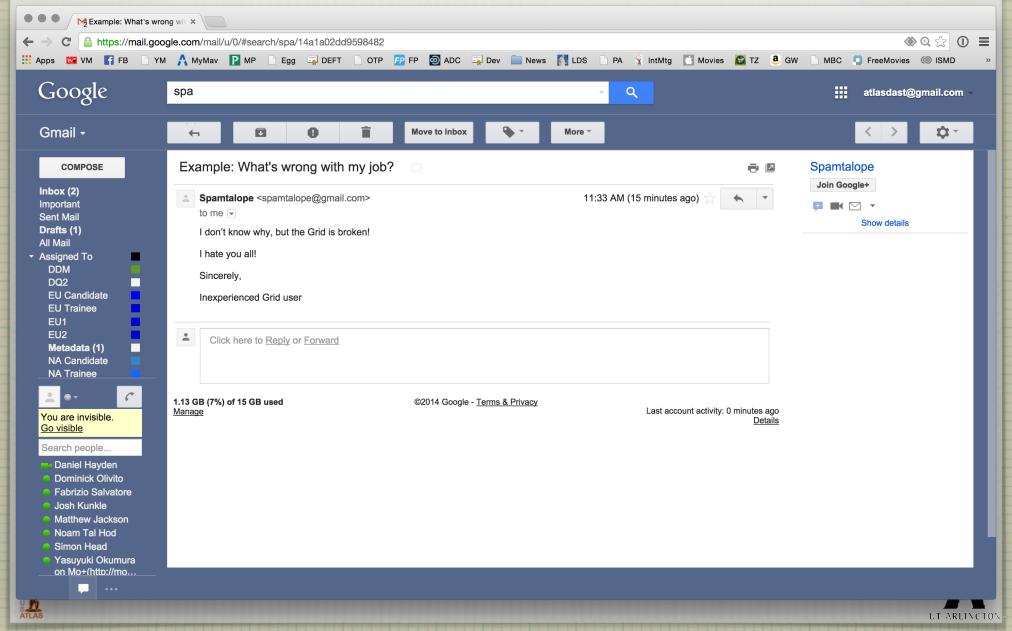
WHAT'S THE GROUP CULTURE?

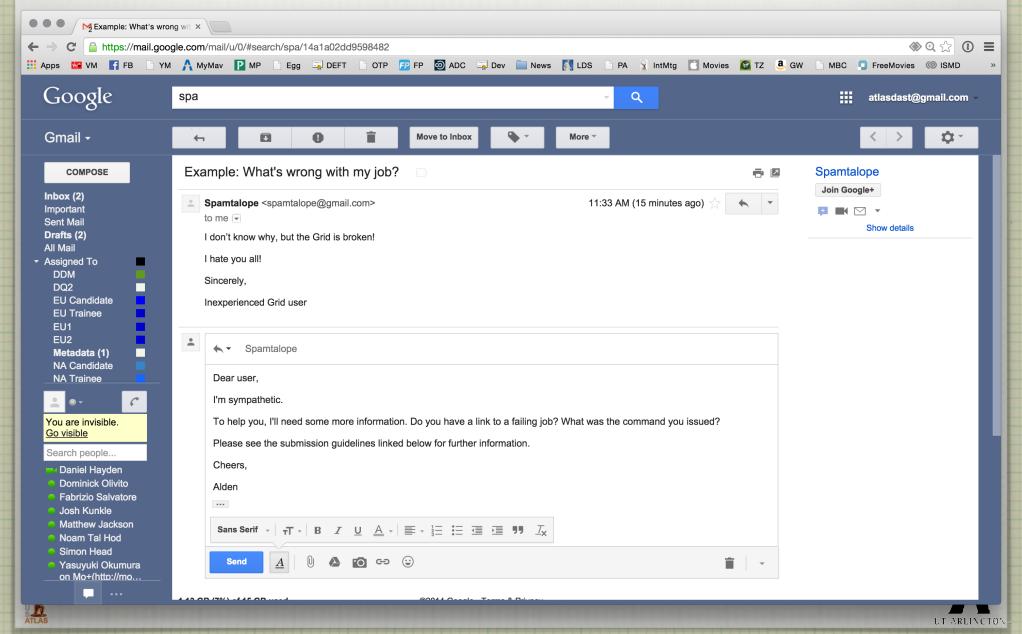
W	'hat kind of shifters do we strive to be?
	We are patient (as Bill mentioned) — professional, genial and gentle.
	We dig to the bottom of the problems
	We work together to cover the needs of the collaboration, even when it's hard
	We teach each other and share information as situations emerge
	We have short and useful weekly meetings
	We absorb and dissipate the frustration that accumulates when things are going wrong

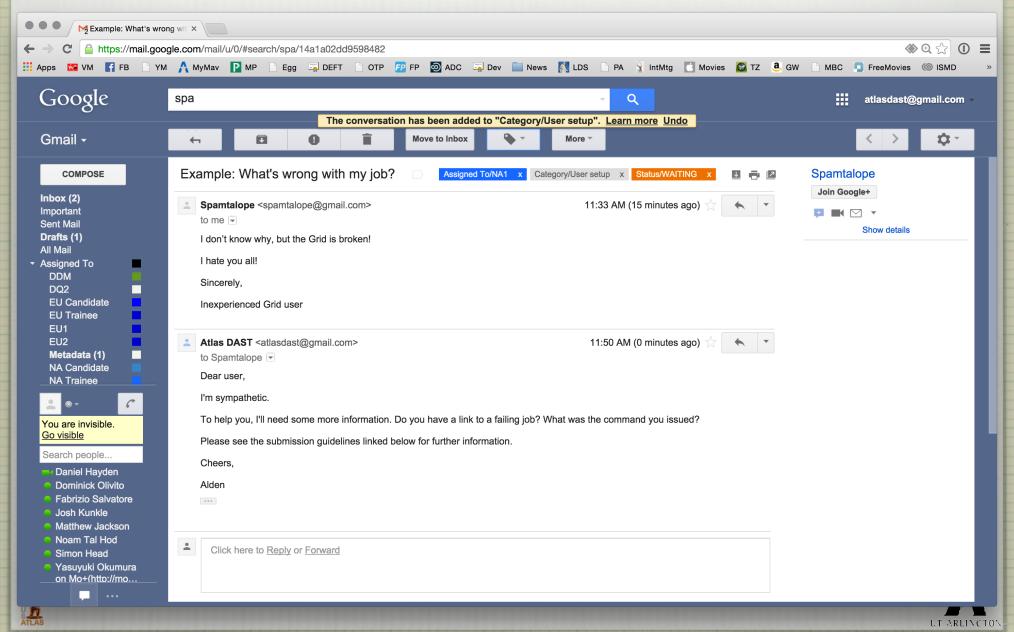












DEMO





SUMMARY

DAST is a core part of the analysis effort and protects the development effort as well
DAST shifters gain valuable technical knowledge and networking, and materially benefit their home groups cost-effectively
DAST shifts are manageable, efficient, and optimized
DAST needs semi-experienced grad students and beginning postdocs immediately
☐ Email us ASAP and you can start getting credit ASAP.
☐ Training time depends on experience and expertise
☐ Customized and optimized



