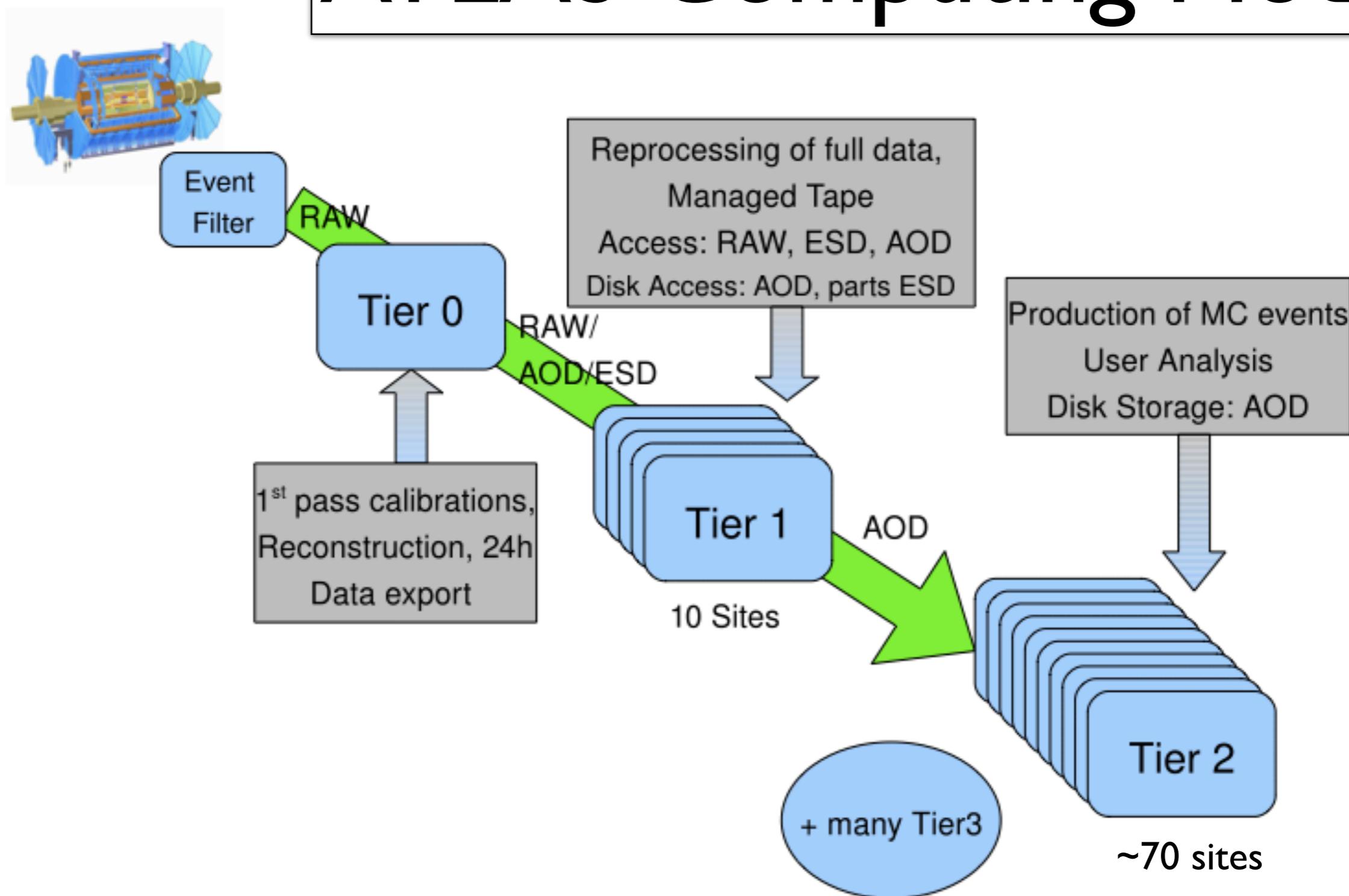


Reunion PAF-CAF

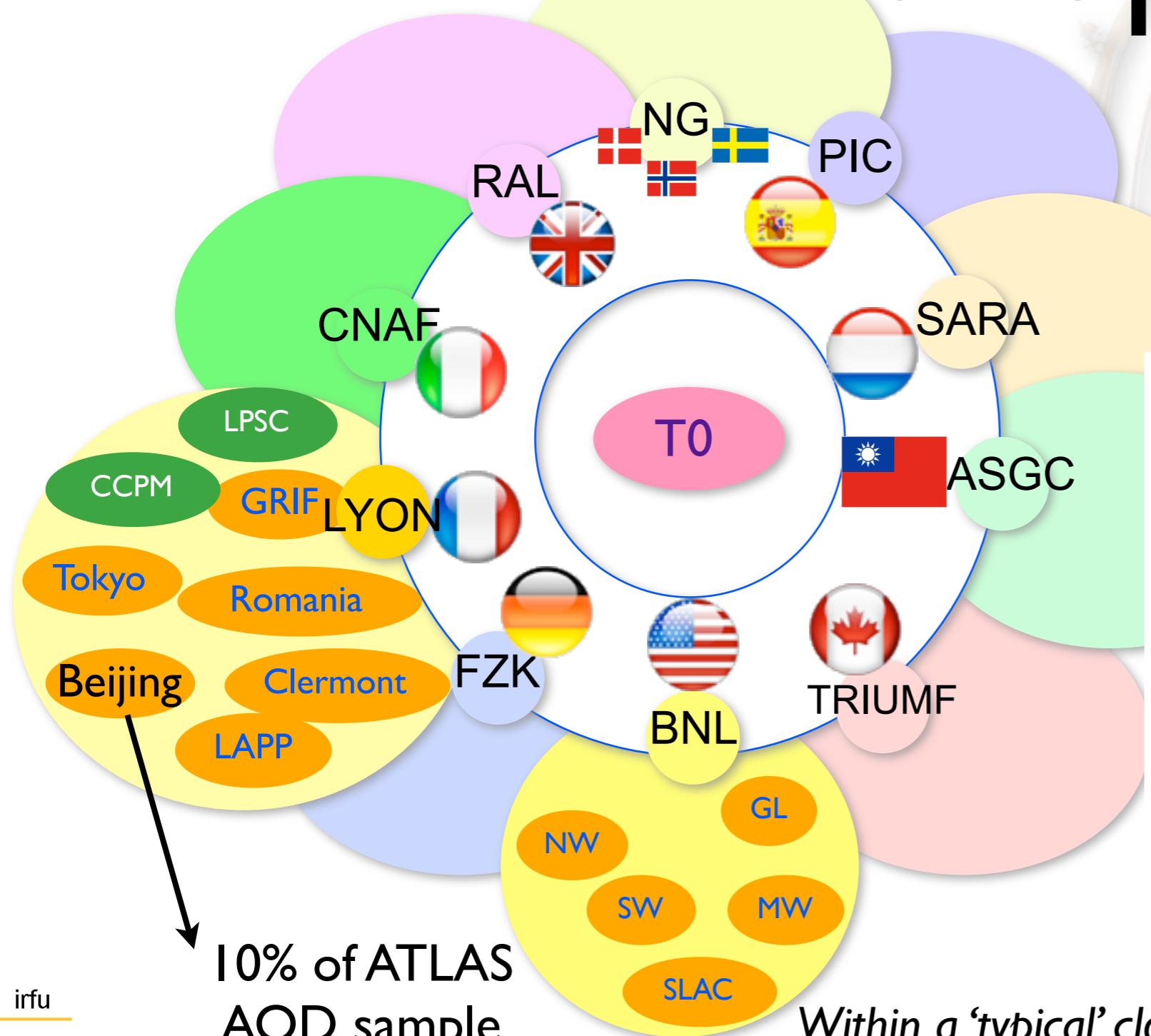
12 Avril 2010

ATLAS Computing Model





ATLAS Topology



“Tier Cloud Model” Unit: $I \text{ T1} + n \text{ T2/T3}$

- All T1s have predefined network channel with T0 and with each other T1
- T2s are associated with **one** T1 to form a cloud
- T2s have predefined channel with parent T1 **only**

Within a ‘typical’ cloud

T1: 10 % RAW, 20 % ESD, 100% AOD
 ΣT2 : 100 % AOD, small fraction ESD, RAW

Le T1

Stocke les données, en provenance

- Du T0 (RAW & premier processing)
- Des T1s (re-processing)
- Des T2s (simulation MC)

Distribue les données aux :

- T2s pour
 - Production MC (simulation)
 - Analyse
- T1s pour archivage

Process

- Les données réelles (re-processing)
- Les données MC (simulation & reconstruction)

Les T2s

Production MC

→ Envoyée au T1

Analyse des données

→ Reçues du T1

Pas d'échanges T2-T2 en dehors du nuage

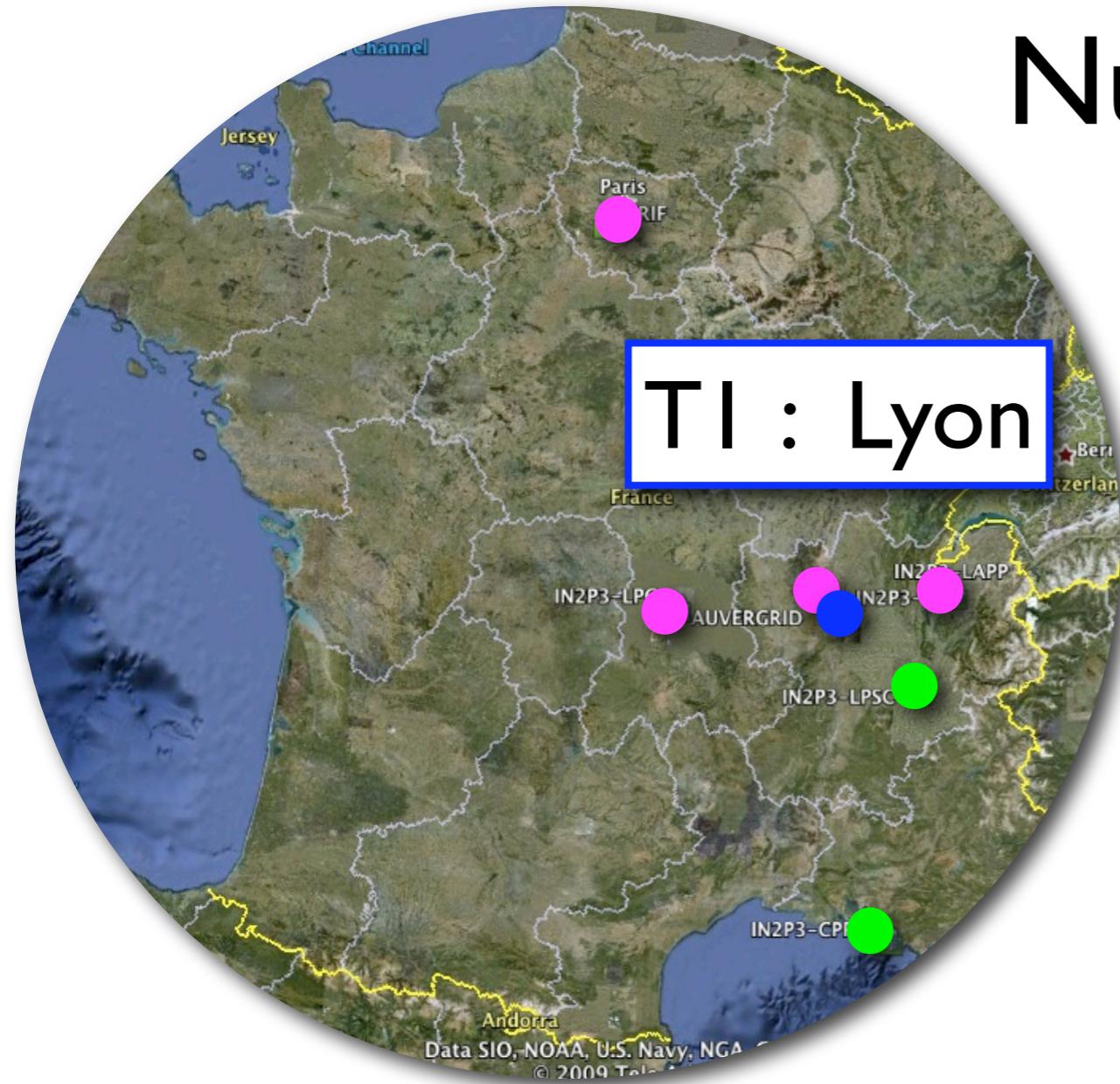
→ Echanges inter-nuages passent par le T1



ATLAS cloud-operation

- ‘Squad-FR’ Team
 - Interface between T0 - sites
 - Monitor all Grid activities
 - Data transfers, MC production, Analysis
 - Perform Analysis Stress tests : HammerCloud
 - Team : Sabine Crepe, Emmanuel, Le Guirriec, Irena Nikolic, Luc Poggioli, ... + I. Ueda (Tokyo), E. Pei (Beijing)

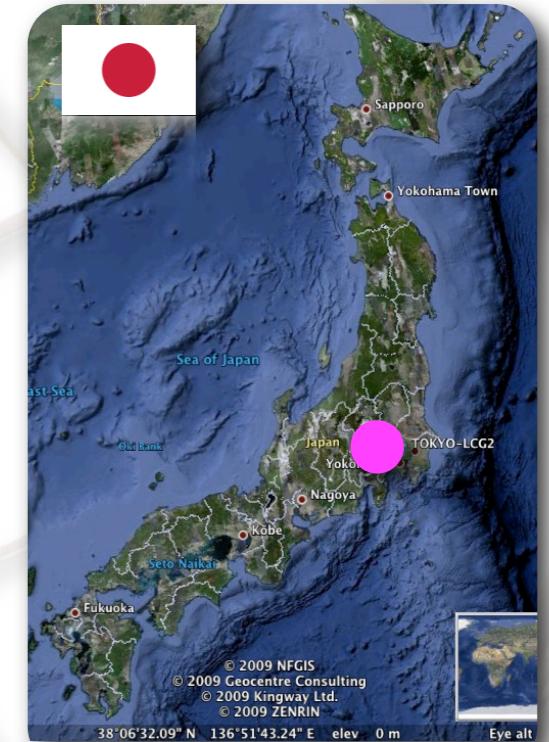
Nuage 'Francais'



T1 : Lyon

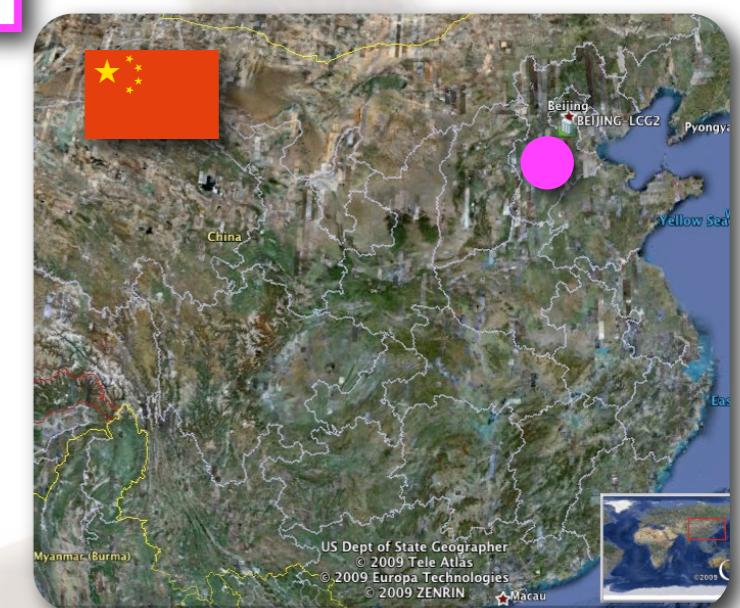
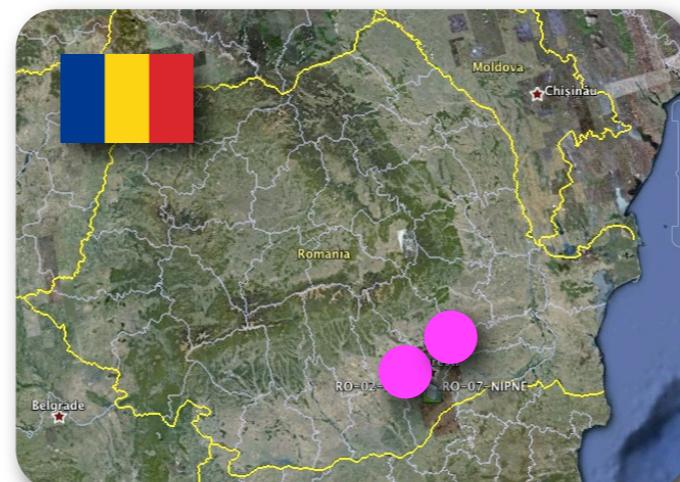
T2 : 8

- Annecy
- Bucarest x2
- Clermont
- IdF
- Lyon
- Pekin
- Tokyo

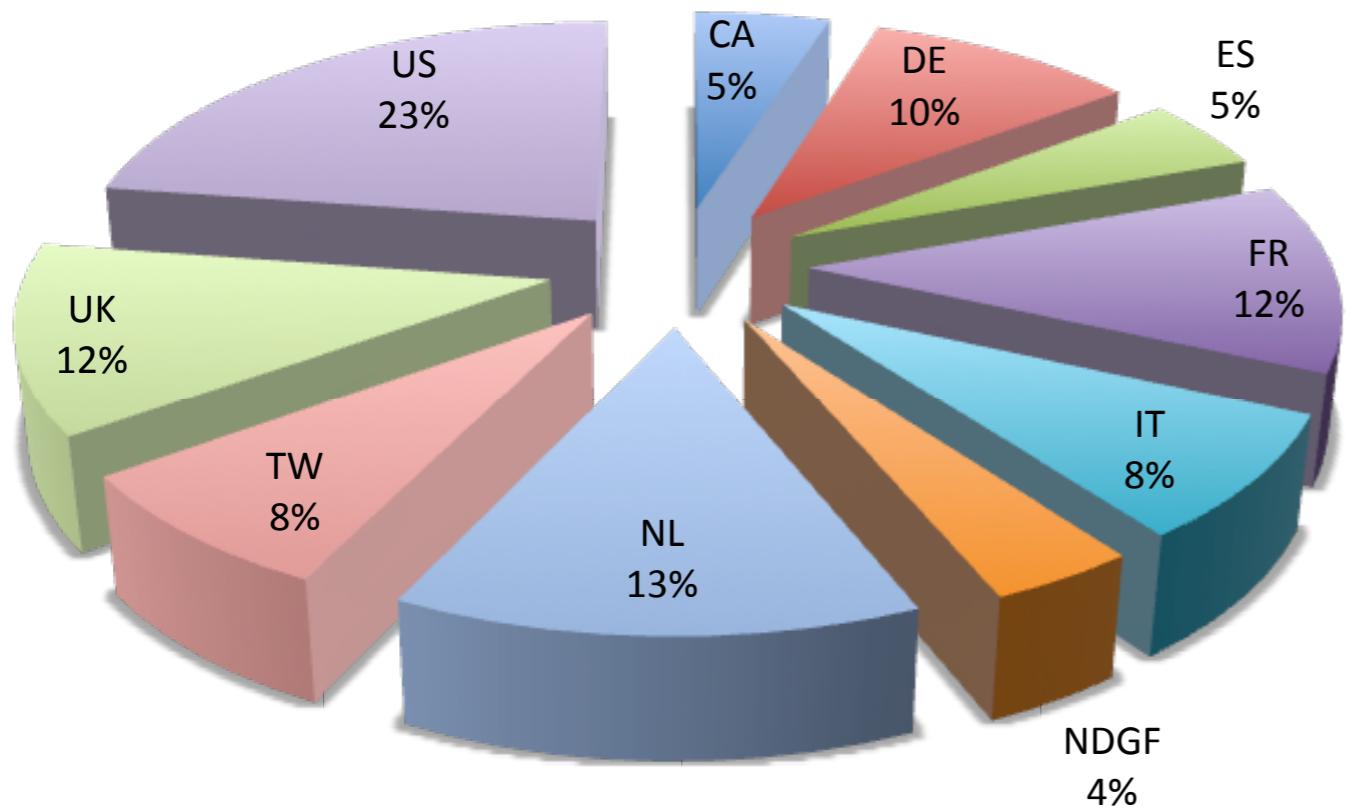


T3 : 2

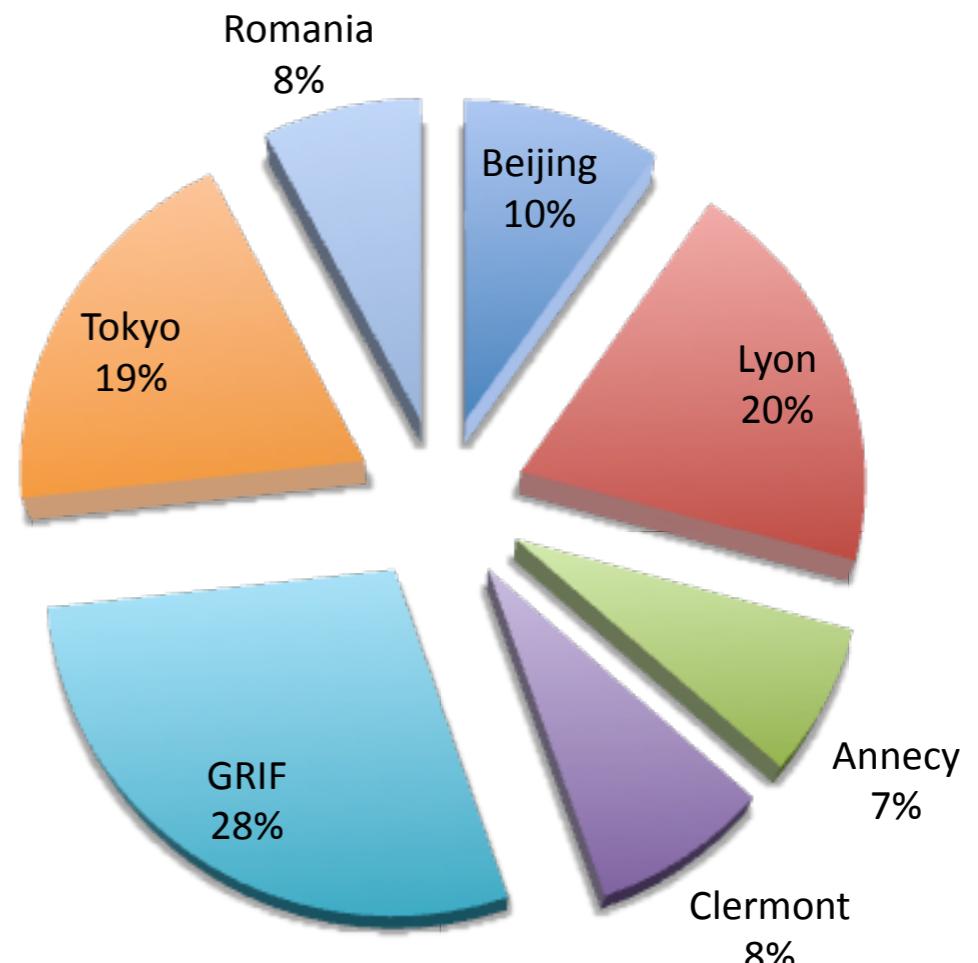
- Grenoble
- Marseille



Taille relative des T1s d'ATLAS



Taille relative des T2s du nuage FR



T2 & T3

- Chaque site T2 a une composante T3
- A Lyon :
 - 40TB /sps pour stockage
 - Ferme PROOF
 - En test (E. Le Guirriec)
 - d'autres arrivent.



PROOF

- Proof-Lite at CPPM
 - one multicores (8 workers)
 - storage: NFS
- Proof at CC: LAF(Lyon Analysis Facility)
 - master: ccap10001.in2p3.fr
 - 20 nodes of 8 cores => 160 workers
 - storage: xoortd server ccxrasn001.in2p3.fr (30TB)

Doc. par R. Vernet : <http://cc.in2p3.fr/docenligne/915>

E. Le Guirriec CAF, 15/03/2010

7 TeV data on DISK

- RAW : 1 copy over 9 TIs (lyon : 15 %)
- ESD : 2 copies over 9 TIs (BNL 100%, extra. is secondary)
 - Lyon : 32%
 - To T2s on some clouds (where no analysis at TI)
- AODs : 2 primary copies over TIs
 - Lyon 100%
 - GRID : 100%
 - Tokyo 100%
 - LAPP, LPC : 15%
 - RO, Beijing : 10%
- DESDS follow AODs but are secondaries

Secondaries : deleted if
space is needed

Space tokens

token name	used for	@T3	@T2	@T1	@T0
ATLASDATATAPE	RAW data, ESD, AOD from re- proc			X	X
ATLASDATADISK	ESD, AOD from data		X	X	X
ATLASMCTAPE	HITS from G4, AOD from ATLFAST			X	
ATLASMCDISK	AOD from MC		X	X	X
ATLASHOTDISK	Hot files		X	X	
ATLASPRODDISK	buffer for in-and export		X		
ATLASGROUPDISK	DPD		X	X	X
ATLASSCRATCHDISK	Temp. User Data	X	X	X *	X
ATLASLOCALGROUPDISK	Perm/Local User Data @T3	X			X

Central operation management
 Phys/Perf group data
 User data



GROUPDISK

- Only for the groups registered on Grid
(eg. det-muon, perf-egamma, phys-beauty)
 - To store group data permanently
 - Data should be managed by the group data manager(s).
 - No direct write access – put data via official DQ2 replication
- Space name in DQ2: <SITENAME>_<GROUPNAME>
 - eg. IN2P3-LAPP_PHYS-SM, TOKYO-LCG2_PERF-JETS
 - Not in the US sites for the moment
- **Quota:** Accounting on daily basis (time-lag up to 1 day)
- **Size:** ATLAS “group space panel” will decide how much to allocate from the available resources
 - For the current tests: a small amount allocated on request
- **Tools and instructions have been prepared:**
<https://twiki.cern.ch/twiki/bin/view/Atlas/GroupsOnGrid>

LOCALGROUPDISK

- Available at many grid sites (up to the sites)
 - To store user data permanently at “home” (where they belong to)
 - Data managed using the DQ2 tools
 - Space managed by the site or the “local” group
- Space name in DQ2: <SITENAME>_LOCALGROUPDISK
- Size: up to the site (not ATLAS requirement)
- Quota: no quota, the site (the local group) manages
- Other ways of “local” space deployment are not prevented, but they cannot be accessed with DQ2

SCRATCHDISK

- For any atlas users on Grid at every grid site
 - To store the output of user jobs run at the site
 - To upload files onto DQ2 (dq2-put)
 - **Temporary storage** (Renamed from USERDISK)
- Space name in DQ2: <SITENAME>_SCRATCHDISK
- **Size**: should scale according to the computing power at the site, but real scale is not clear yet...
- **Quota**: no quota yet, but possibly per user in future
- User data are to be created at first on SCRATCHDISK to protect permanent spaces from unregistered files created by failures

Outputs of Analysis jobs go to SCRATCHDISK!

SCRATCHDISK

- Data on * _SCRATCHDISK will be **deleted** after ~ 1 month
 - In order to keep them on grid (DQ2);
 - Users should request for **replication** to their permanent storage (LOCALGROUPDISK, GROUPDISK)
 - In order to keep the files, but not necessarily on grid (DQ2);
 - **Download** them with the tool: **dq2-get**
 - **CAUTION:** Athena (POOL) files cannot be re-loaded onto DQ2 once removed
 - If not downloaded/replicated
 - **The data will be lost**

Use Case: Distributed Analysis data flow

- Jobs
 - Run on a grid site where input data are available on DISK
- Output data
 - are stored on the **SCRATCHDISK** space at the site temporarily
- The user should either
 - **download** the data (to their local disk) and let them be removed from DQ2
 - or request for **replication** (to permanent storage on grid) to keep them on DQ2

Use Case: Uploading Data on Grid

- Upload data
 - Created using local batch (or interactive) system
 - Upload on the **SCRATCHDISK** space at the site temporarily
- Replicate data
 - To the permanent space (GROUPDISK space, or LOCALGROUPDISK)

Datri = DAta Transfer user Interface

Datri

Configuration Production Clouds Incidents DDM PandaMover AutoPilot ... Releases Analysis Stats Physics data Usage ProdDash DDMDash
Update

Panda monitor
Times are in UTC

Panda info and help

Jobs - search
States: running, defined, waiting, assigned, activated, finished, failed
Types: analysis, prod, install, test

Quick search
Job
Dataset
Task request
Task status
File

Summaries
Blocks: days
Errors: days
Nodes: days
Usage 1 3 days

Tasks - search
Generic Task Req
EvGen Task Req
CTBsim Task Req
Task list
New Tag
Bug Report
Task overview query

Datasets - search
Popular datasets
Aborted datasets
Datasets Browser

Datasets Distribution
Data Transfer Request
Datri: Requests list
ACN

Data Transfer Request Interface (DaTRI)

Information about Data Transfer Request pages [here](#)

- **Data Pattern:** <somePattern>*<dataType>*<versionTag>, length < 255 (see [AMI](#) for details about ATLAS official dataset names)
- **Data Type:** None is used only by user datasets and evgen input datasets
- **Destination Site:** [TiersOfAtlas](#) name for destination endpoint (ATLAS policy states this must be a DISK area)
- **Is Periodic:** by default set to False for one time copy (see [TWiki](#))
- **Volume Parameters:** by default 100% transfers all of the dataset (see [TWiki](#))

IMPORTANT

- You must be registered to use this interface (for registration go [here](#)). You may check your registration status [here](#)
- Only datasets with state "FROZEN" can be subscribed
- If you have any problems with your request (approval or data replication), please place [DDM Ops Savannah ticket](#)

Request Parameters	Data Pattern: <input type="text"/> Data Type: <input type="button" value="None"/> Destination Site: <input type="button" value="cloud"/> <input type="button" value="site"/>
Volume Parameters	Volume: <input type="text" value="100"/> % Query list: <input type="button" value="None"/> comma-separated (file1, file2) <input type="text"/>
Control Parameters	Is Periodic: <input type="button" value="False"/> Transfer Mode: <input type="button" value="DataTransfer"/> Type: <input type="button" value="user"/> Priority: <input type="button" value="Immediate"/> Additional emails: <input type="text"/> (email1, email2) Comments: <input type="text"/>

Check
request submitting certificate is needed. Please follow this [link](#) to register certificate.



Transfer requests are validated by cloud managers :
Luc, Stephane, I. Ueda

Request status

[Configuration](#)

[Update](#)

[Panda monitor](#)
Times are in UTC

[Panda info and help](#)

[Jobs - search](#)
States: [running](#), [defined](#), [waiting](#), [assigned](#), [activated](#), [finished](#), [failed](#)
Types: [analysis](#), [prod](#), [install](#), [test](#)

[Quick search](#)
Job
Dataset
Task request
Task status
File

[Summaries](#)
Blocks: days
Errors: days
Nodes: days
Usage 1.3 days

[Tasks - search](#)
Generic Task Req
EvGen Task Req
CTBsim Task Req
Task list
New Tag
Bug Report
Task overview query

[Datasets - search](#)
Popular datasets
Aborted datasets
Datasets Browser

[Datasets Distribution](#)
Data Transfer Requests
[DaTRI: Requests list](#)

[AODs](#)
[EVNTs](#)
[Conditions DS](#)
[DB Releases](#)
[SIT pacballs](#)
[Validation Samples](#)
[Functional Tests](#)
[ATLAS Data](#)
[Reprocessed Datasets](#)
[Logging monitor](#)

[Production](#) [Clouds](#) [Incidents](#) [DDM](#) [PandaMover](#) [AutoPilot](#) [Sites](#) [Releases](#) [Analysis](#) [Stats](#) [Physics data](#) [Usage](#) [ProdDash](#) [DDMDash](#)

Not logged in. [List users](#)

Data Transfer Request Interface (DaTRI)

For more Information click here (hidden text)

Configure the query

Pattern (data / type / version_tag): *

Cloud: FR Site: ALL

Request Status: ANY

Time period: last day last week last month All period

Request ID:

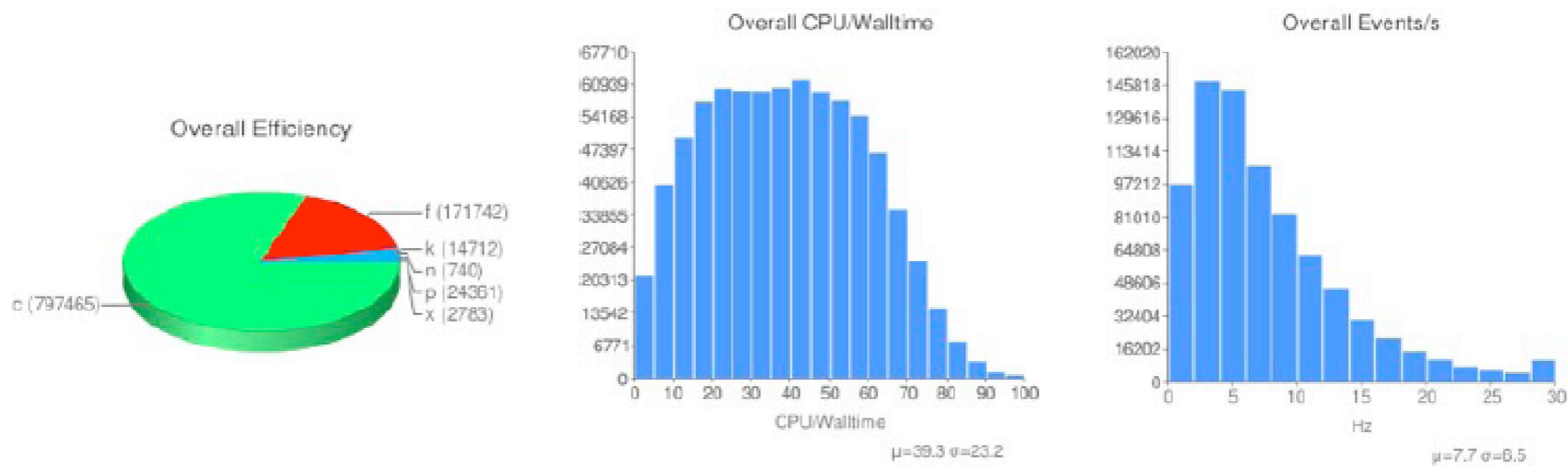
[List](#)

ALL	CA	DE	ES	FR	IT
ND	NL	T0	TW	UK	US
NumRequests 33	NumDatasetsInRequests 152	NumSubscribedDatasets 30			
ReqID	DataPattern	DestinationSite	Status	NumDatasets All/Subscribed	
5774	mc09_7TeV.107682.AlpgenJimmyWenuNp2_pt20.merge.AOD...	BEIJING-LCG2_MCDISK	awaiting_approval	1 / 0	
5770	data10_7TeV*merge.NTUP_BTAG.f2*_p123_tid*_00...	IN2P3-CC_PERF-FLAVTAG	awaiting_approval	117 / 0	
5750	data10_7TeV.00152221.physics_MinBias.recon.ESD.f23...	TOKYO-LCG2_PERF-MUONS	done	1 / 1	
5699	group10.perf-muons.data10_7TeV.00152441.physics_Mi...	TOKYO-LCG2_PERF-MUONS	done	1 / 1	
5698	user10.AndrzejOlszewski.208807.Hijing_PbPb_2p75TeV...	GRIF-LAL_SCRATCHDISK	done	1 / 1	
5696	user10.AndrzejOlszewski.mc09_7TeV.208801.Hijing_Pb...	GRIF-LAL_SCRATCHDISK	done	1 / 1	
5684	user10.FredericDerue.data10_7TeV.00152409.physics_...	GRIF-LPNHE_LOCALGROUPDISK	done	1 / 1	
5683	user10.OlivierArnaez.user09.OlivierArnaez.AutoNTup...	IN2P3-LAPP_SCRATCHDISK	done	1 / 1	
5638	user10.FredericDerue.data10_7TeV.00152409.physics_...	GRIF-LPNHE_LOCALGROUPDISK	stopped	1 / 0	
5631	group10.perf-muons.data10_7TeV.00152441.physics_Mi...	TOKYO-LCG2_PERF-MUONS	done	1 / 1	
5603	group10.perf-muons.data10_7TeV.00152441.physics_Mu...	TOKYO-LCG2_PERF-MUONS	done	1 / 1	



'User' Analysis

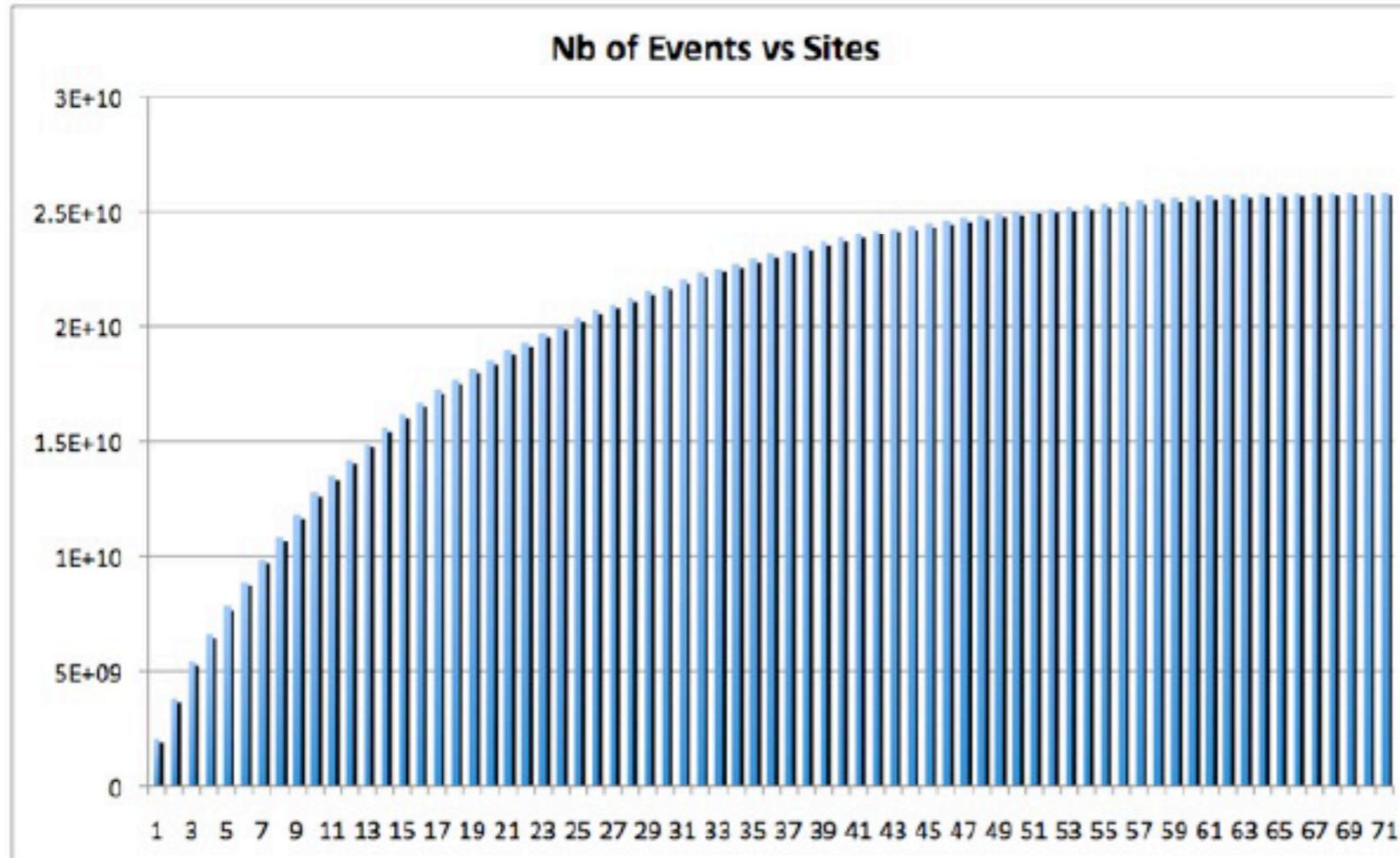
- ~1M jobs submitted, 83.4% success rate
- 26.3B events processed, 28.6kHz across grid
 - N.B. This sounds impressive, but is actually only a few 10s of power users
- Average job's event rate: 7.7Hz
- Average job's cpu efficiency: 0.39



- 4 'calibrated' user analysis submitted
- T2s asked to split ATLAS shares 50% (production), 50% (analysis)



Cumulative Events per Site

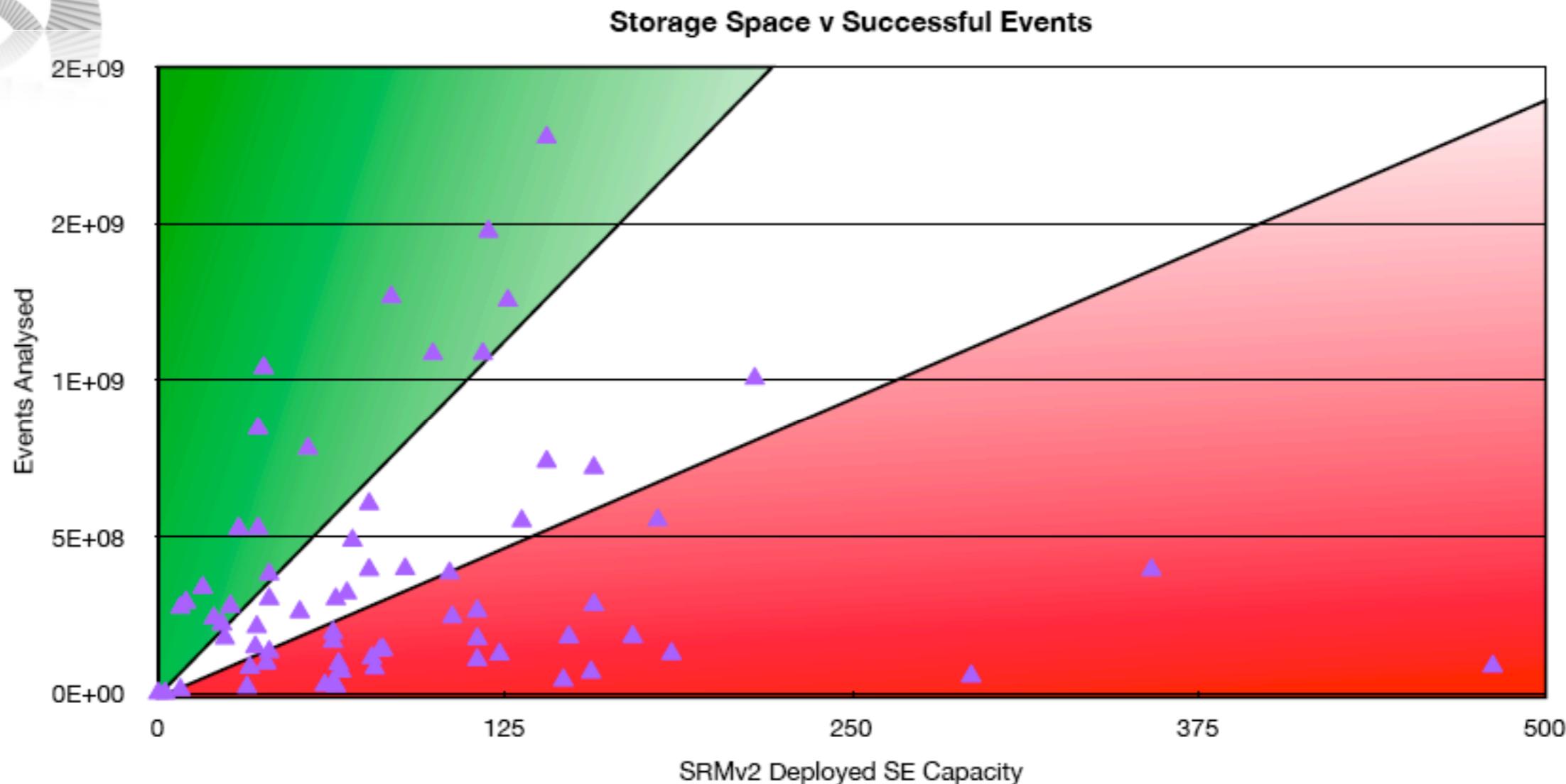


- 50% of all events are processed in 11 sites
- 90% of all events are processed in 37 sites
- Of course, we know we have large and small sites, but...

Distribution de données dans des sites où on ne peut pas les utiliser



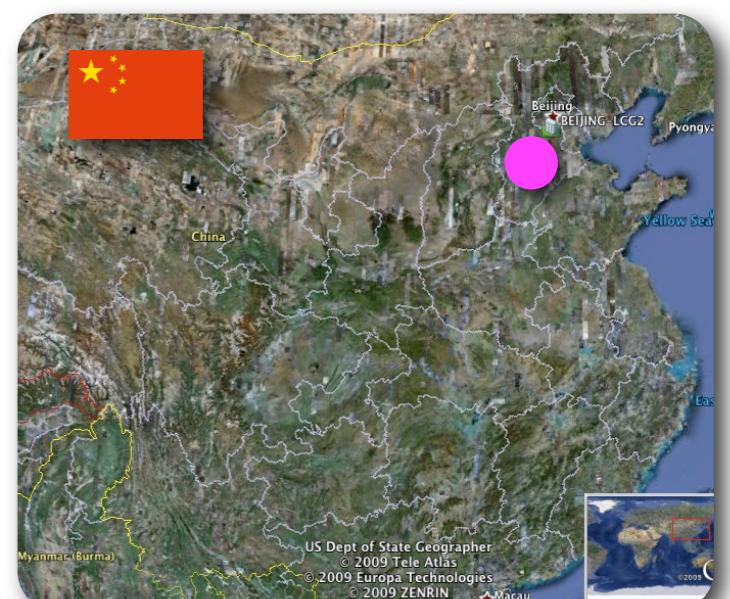
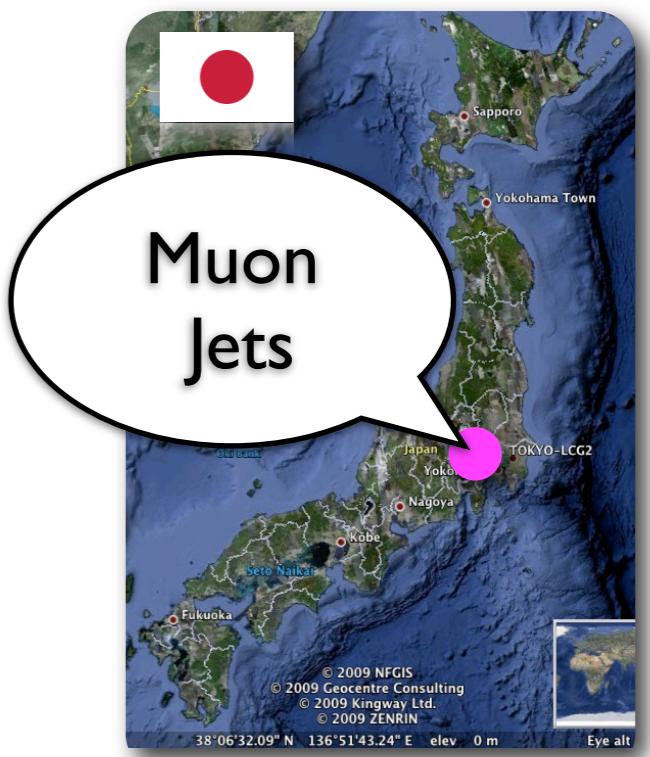
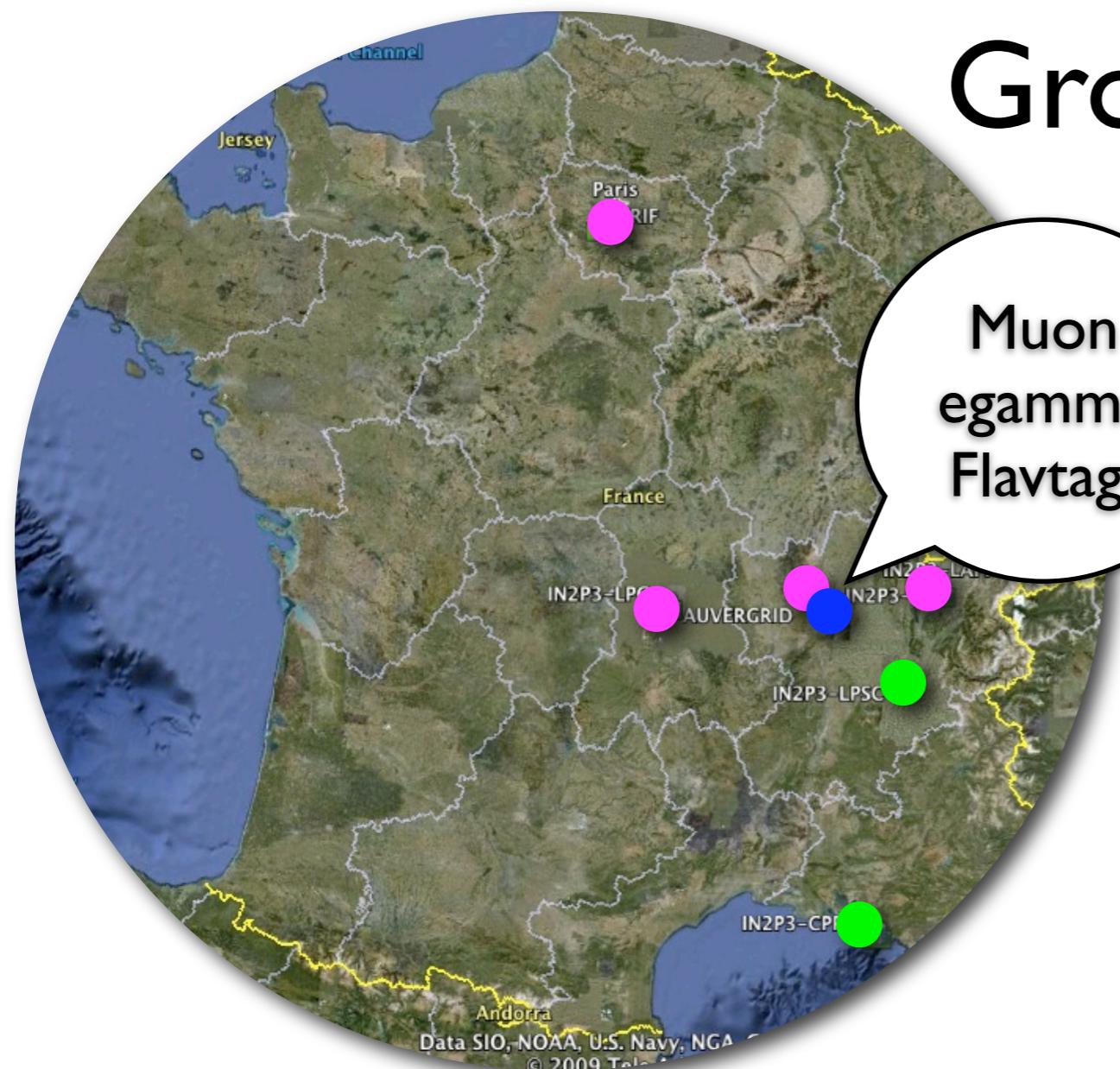
Visible T2 Site Resources II



- No strong correlation between storage size and number of events analysed
 - Which is bad!

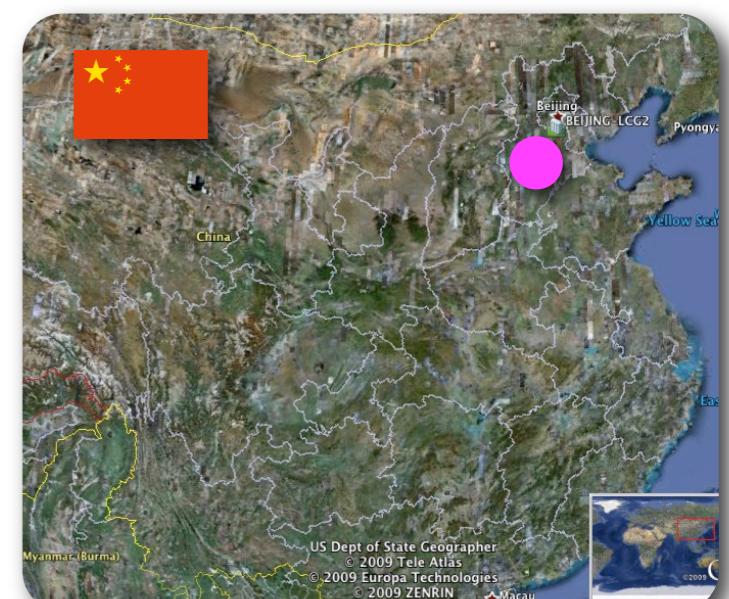
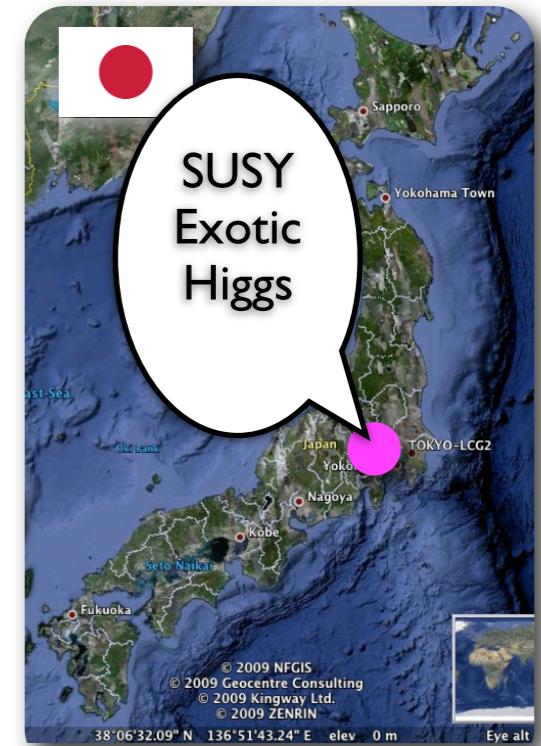
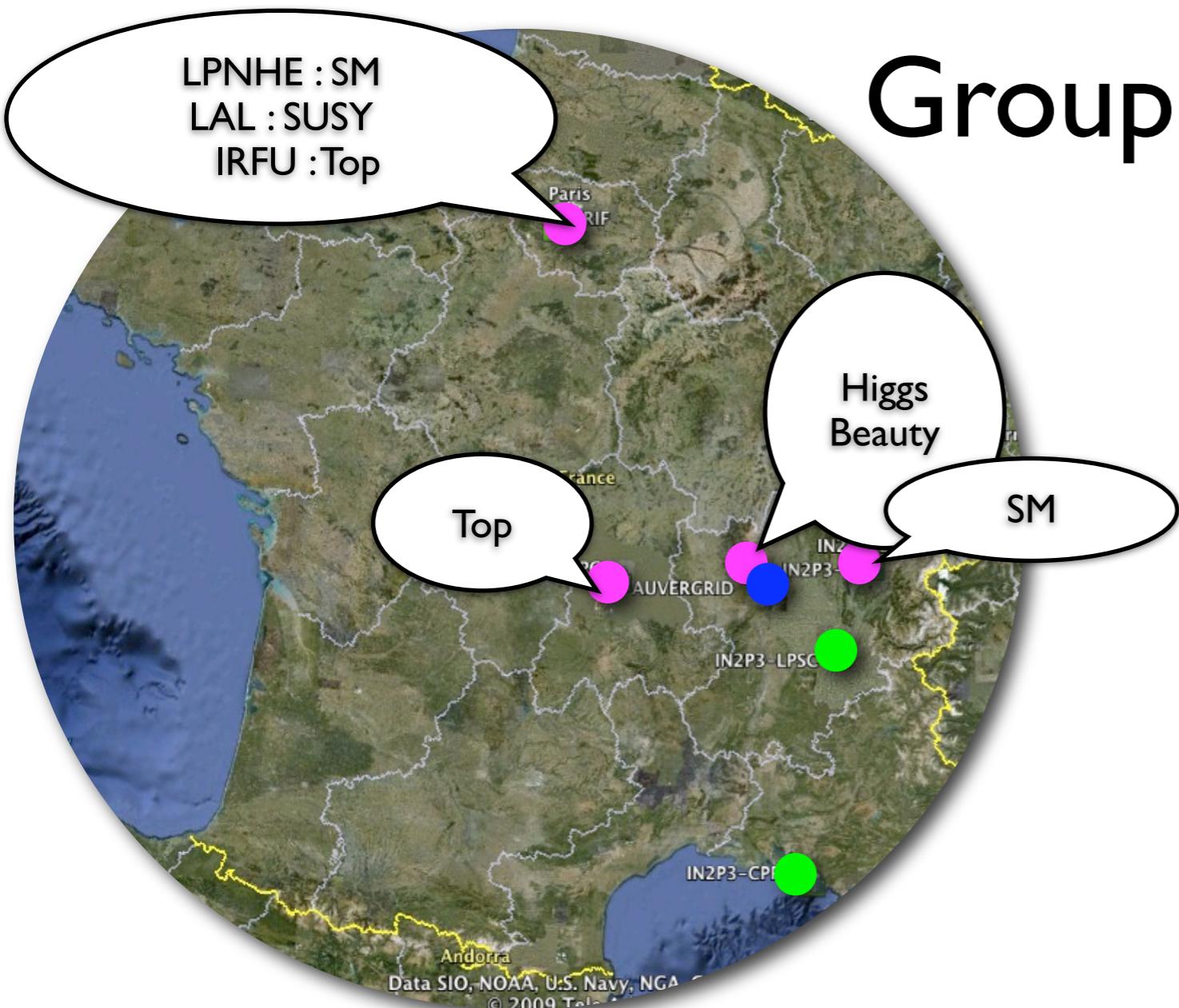
- Les sites les plus gros ne sont pas les plus efficaces
- Trop de données dans des sites inefficaces pour l'analyse

GroupDisk : PERF



LPNHE : SM
LAL : SUSY
IRFU : Top

GroupDisk : PHYS



Analysis

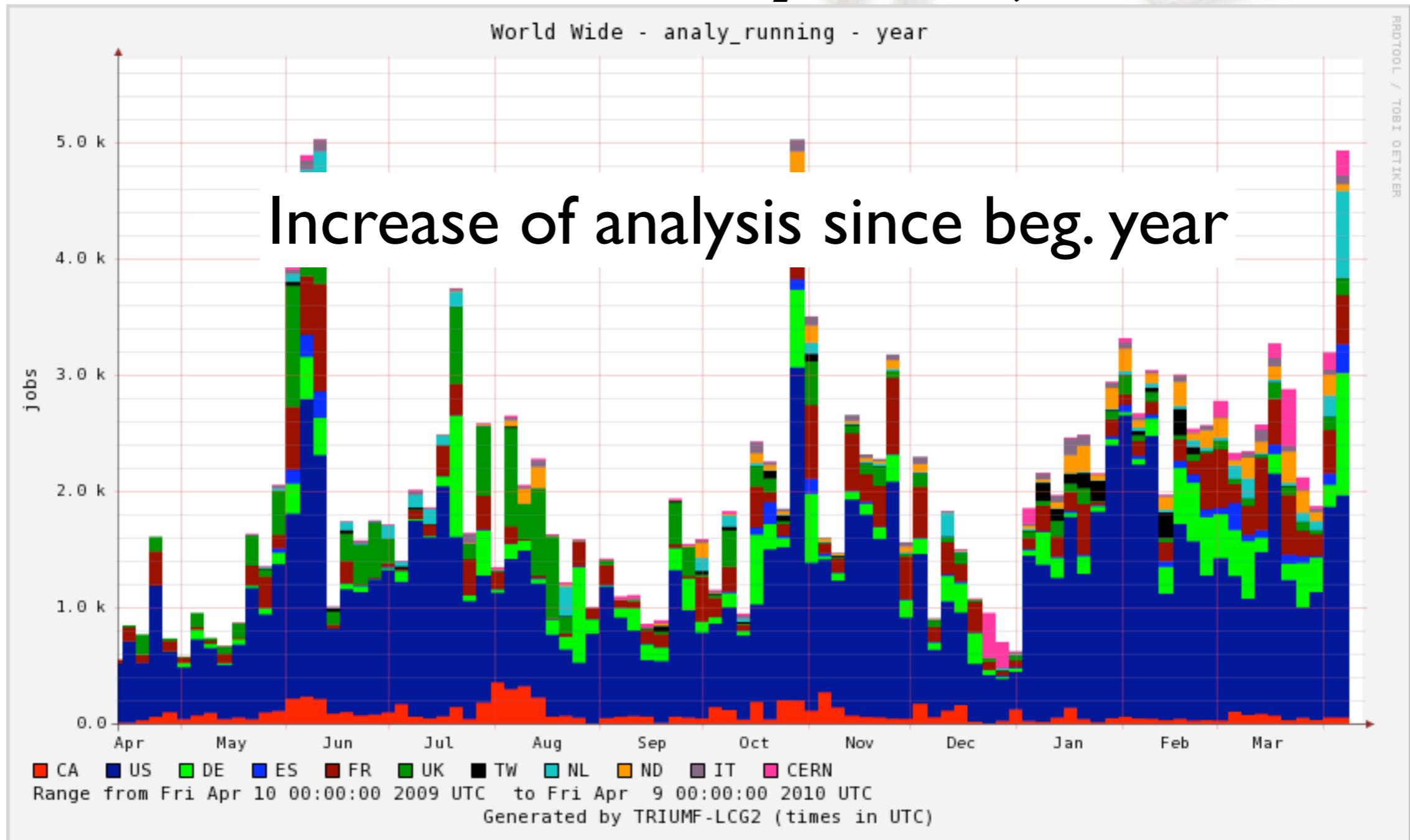
CAF : No support for Ganga (VMS) jobs

pATHENA queues on all FR sites

Reserved resources for members of FR VO group : ongoing work

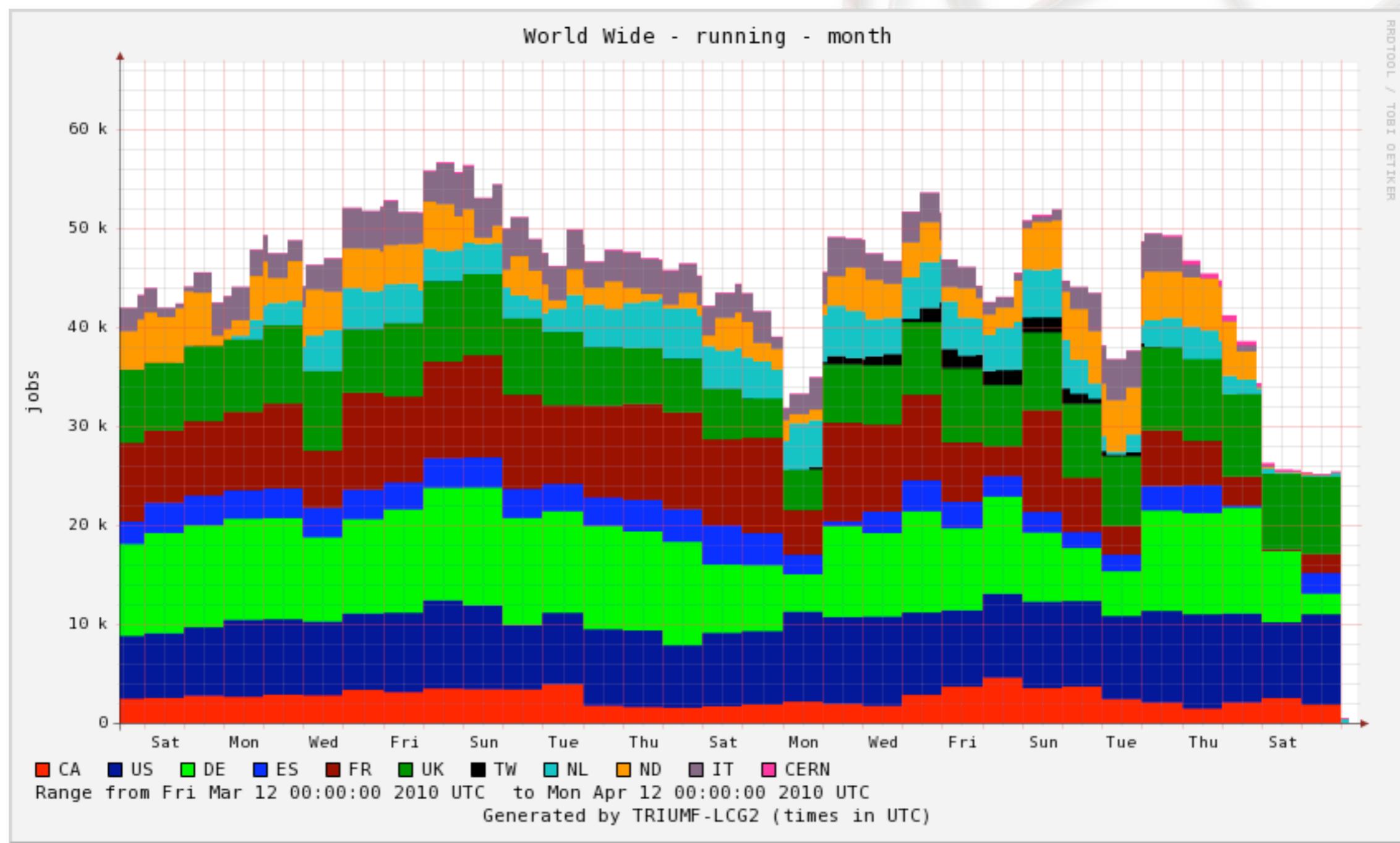
FR Sites	Job Nodes	Jobs	Latest	Pilot Nodes	defined	assigned	waiting	activated	sent	running	holding	transferring	finished	failed tot trf other
Site Name	2662	3612	04-12 09:36	6680	16	0	0	11721	0	394	84	7399	3612	33% 4% 29%
ANALY_BEIJING ✓	0	0		0	0	0	0	0	0	0	0	0/0	0	0
ANALY_CPPM ✓	48	100	04-12 09:28	76	1	0	0	0	0	1	0	0/0	16	100 86% 86% 0%
ANALY_GRIF-IRFU ✓	97	44	04-12 09:35	553	1	0	0	0	0	74	9	0/0	233	44 16% 11% 5%
ANALY_GRIF-LAL ✓	1	0	offline	0	1	0	0	1	0	0	0	0/0	0	0
ANALY_GRIF-LPNHE ✓	62	200	04-12 09:28	91	1	0	0	0	0	1	0	0/0	10	200 95% 95% 0%
ANALY_LAPP ✓	18	10	04-12 09:32	102	1	0	0	0	0	0	1	0/0	9	10 53% 0% 53%
ANALY_LONG LYON ✓	317	498	04-12 05:35	522	0	0	0	0	0	0	0	0/0	378	498 57% 2% 55%
ANALY_LONG LYON_DCACHE ✓	740	1588	04-12 09:08	485	0	0	0	0	0	0	0	0/0	1049	1588 60% 0% 60%
ANALY_LPC ✓	1	0	offline	0	0	0	0	22	0	0	0	0/0	0	0
ANALY_LPSC ✓	4	0	04-12 09:23	48	1	0	0	0	0	1	0	0/0	7	0 0% 0% 0%
ANALY_LYON ✓	556	531	04-12 09:36	1048	3	0	0	0	0	15	1	0/0	478	531 53% 6% 47%
ANALY_LYON_DCACHE ✓	703	572	04-12 09:36	2861	6	0	0	2	0	71	20	0/0	1365	572 30% 1% 29%
ANALY_ROMANIA02 ✓	0	0		0	0	0	0	0	0	0	0	0/0	0	0
ANALY_ROMANIA07 ✓	0	0	test	5	0	0	0	0	0	0	0	0/0	0	0
ANALY_TOKYO ✓	115	69	04-12 09:36	889	1	0	0	11696	0	231	53	0/0	3854	69 2% 1% 1%
ANALY_TOKYO_RFIO ✓	0	0	offline	0	0	0	0	0	0	0	0	0/0	0	0

Panda analysis jobs



Sizable fraction of analysis jobs on FR cloud

Last month

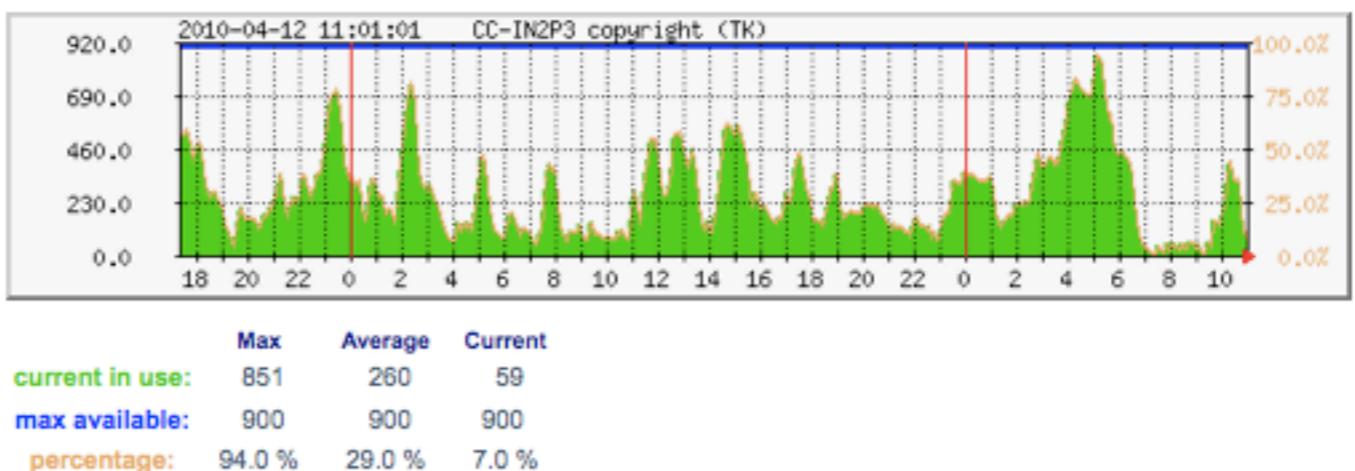


Jobs d'Analyse à Lyon

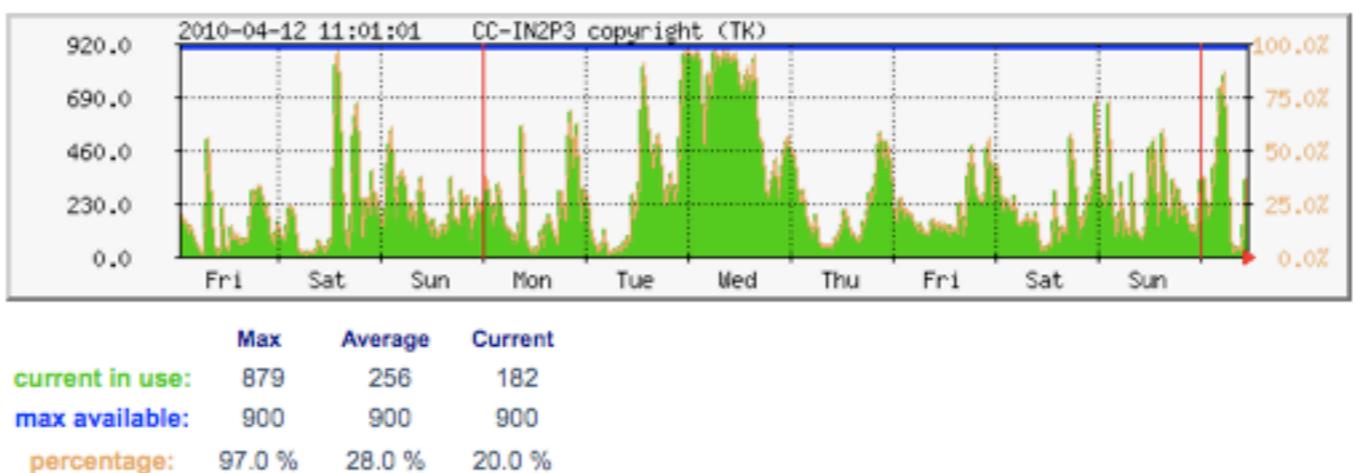
- Max : 900
- <> last month : 242

The statistics were last updated *Monday, 12 April 2010 at 11:01*

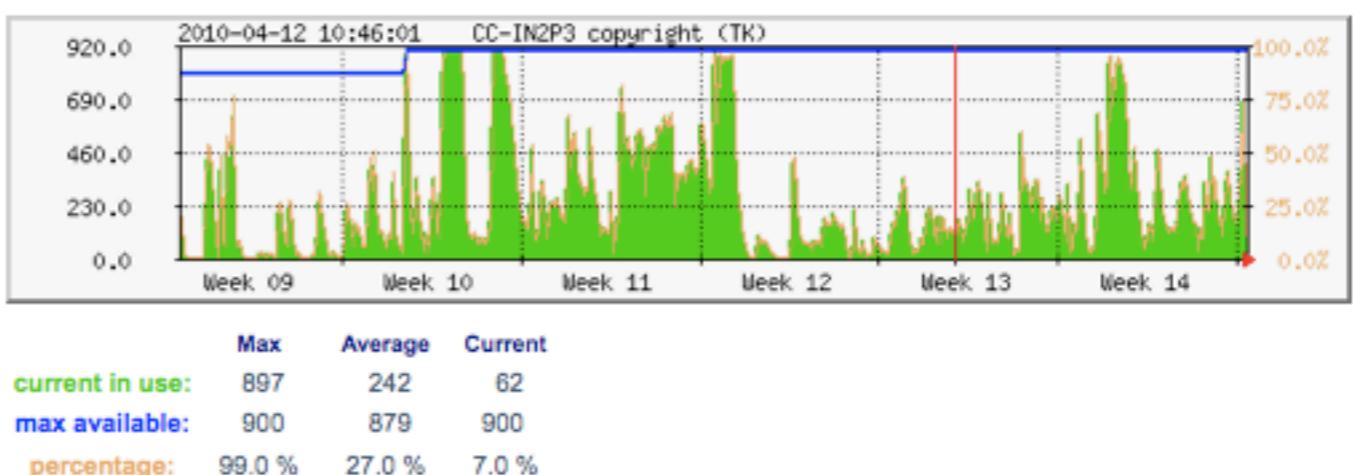
Daily Graph (5 Minute Average)



Weekly Graph (30 Minute Average)



Monthly Graph (2 Hour Average)



ANALYSIS on FR

Does it Work :YES!

BNL Works Better :NO !

BNL Better Turn-around :NO!

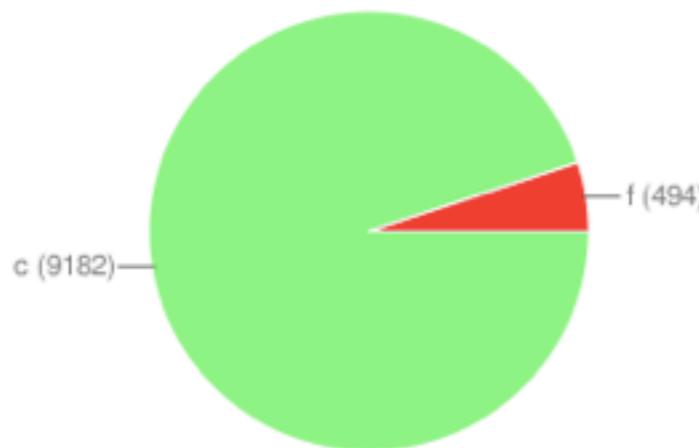
BNL Better Efficiency: NO!



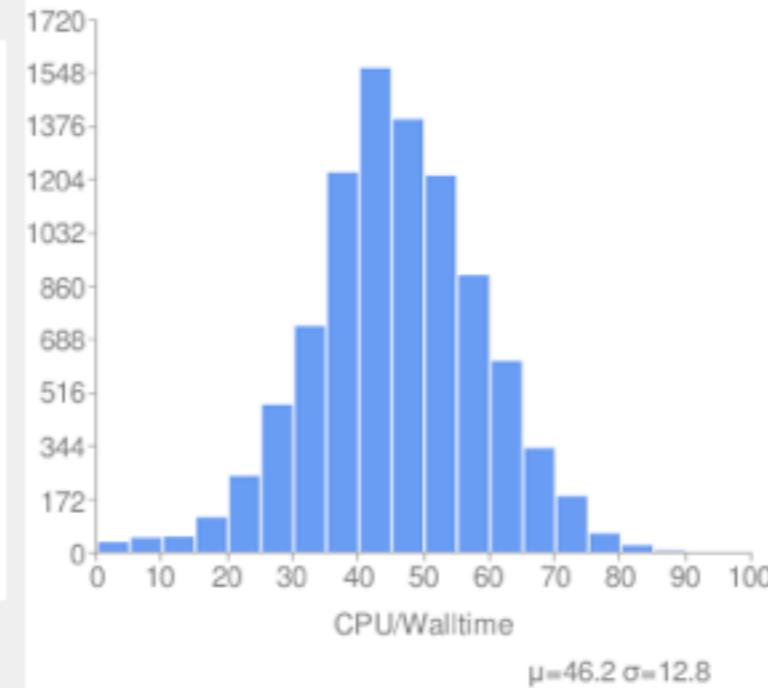
Summary

state	id	host	clouds	start time (CET)	end time (CET)	submitted jobs
completed	1187	yoatlas49.cern.ch	US , DE_PANDA , CA_PANDA , ES_PANDA , FR_PANDA	2010-03-13 19:10:00	2010-03-14 19:11:28	10749

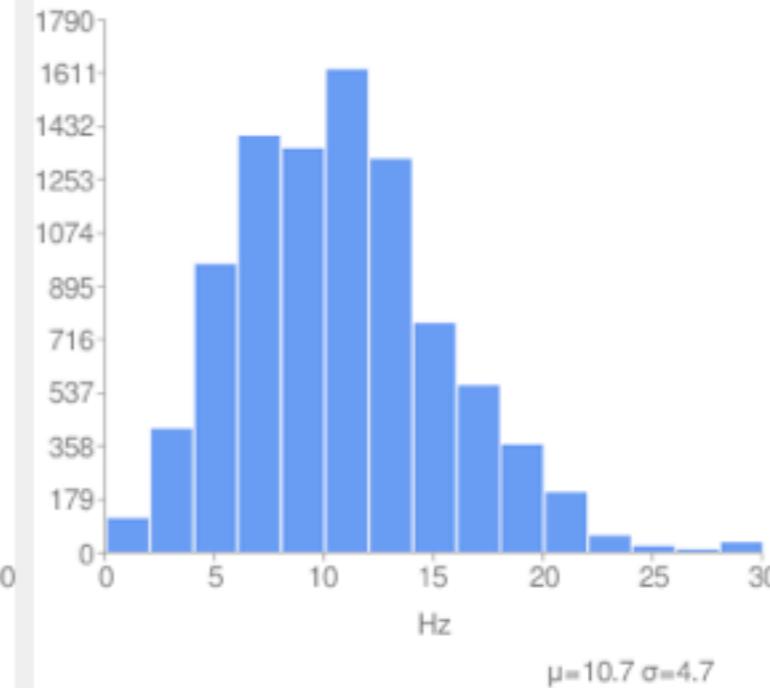
Overall Efficiency



Overall CPU/Walltime



Overall Events/Wallclock(s)

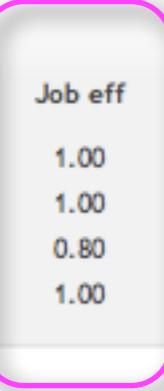


Sites

Site	Submitted jobs	Running jobs	Completed jobs	Failed jobs	Num datasets per bulk	Min queue depth	Max running jobs	Resubmit enabled	Resubmit force	View jobs
ANALY_FZK	0	0	0	122	50	50	1000	no	no	»
ANALY_LYON_DCACHE	158	153	1316	4	50	50	1000	yes	no	»
ANALY_BNL_ATLAS_1	169	73	5012	23	50	50	1000	yes	no	»
ANALY_TRIUMF	85	64	1493	4	50	50	1000	yes	no	»
ANALY_PIC	72	299	1361	341	50	50	1000	yes	no	»
Total	484	589	9182	494						»

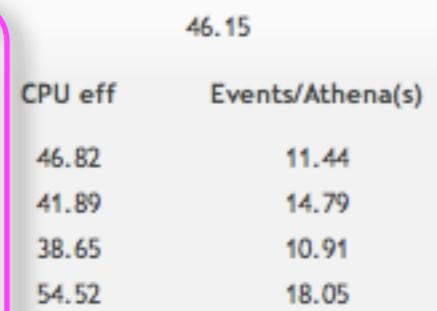
Overall Job eff.

0.95



Overall CPU eff.

46.15



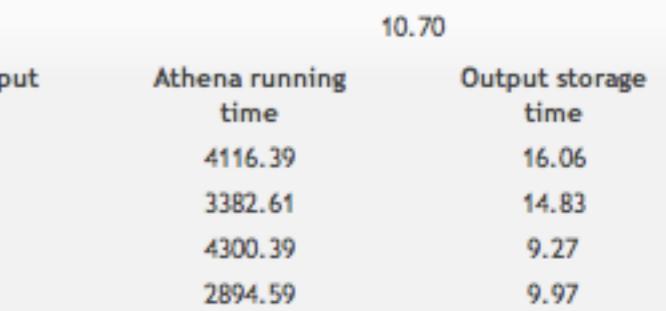
Overall Event/Athena(s)

12.92



Overall Eventrate

10.70



i
C
sa

Summary of this selection: (Ordering is by job count, with (finished/failed) counts shown. Click on item to add to filter.)

Time interval: 2010-04-05 00:00:00 to 2010-04-12 00:00:00

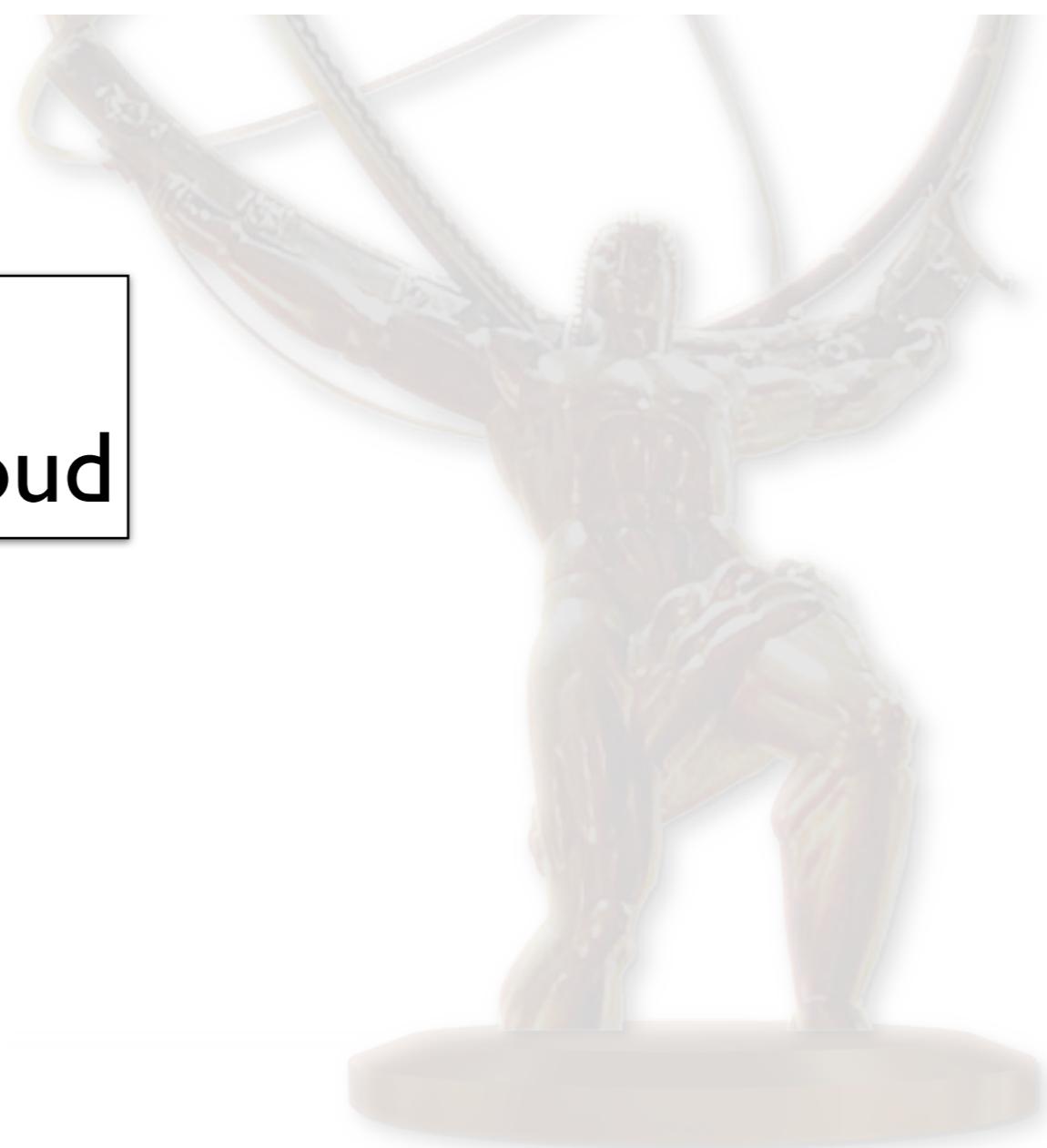
cloud: FR (65480/27284)

site: [ANALY_LYON_DCACHE](#) (22686/6543) [ANALY_TOKYO](#) (9999/8792) [ANALY_LONG_LYON_DCACHE](#) (9601/52)
[ANALY_GRIF-LPNHE](#) (226/850) [ANALY_LPC](#) (690/371) [ANALY_CPPM](#) (72/622) [ANALY_LPSC](#) (38/89)

[ANALY_DCACHE](#) (9601/5237) [ANALY_LAPP](#) (10022/51) [ANALY_LYON](#) (4973/1814) [ANALY_GRIF-IRFU](#) (3653/952) [ANALY_38/89](#)

[ANALY_LONG_LYON](#) (2626/1215) [ANALY_GRIF-LAL](#) (894/748)

Last week :
65K jobs finished on FR cloud



Cloud: Site	Time	Hrs	JobType	ProcType	Release	User	Nuser	Nworker	M
FR: ANALY_LYON_DCACHE	20100405-12	24	user(3351) panda(33)	pathena(3286) prun(98)	15.6.7(3184) 15.6.3(100) 15.5.0(46) 15.5.1(19) 15.6.5(13) 15.6.6(9)...	Cuciuc(1085) Wang(671) bouhova-thacker(528) Hance(334) Rezvani(284) Gillberg(199)...	17	821	
FR: ANALY_LYON_DCACHE	20100406-12	24	user(6644) panda(46)	pathena(6601) prun(89)	15.6.7(5991) 15.6.3(421) 15.6.6(138) 15.6.1(110) 15.6.4(12) 15.6.5(12)...	Derue(1228) Olariu(1006) Mountricha(976) Ming(727) Escallier(658) Regie(585)...	32	856	
FR: ANALY_LYON_DCACHE	20100407-12	24	user(8971) panda(31)	pathena(8972) prun(30)	15.6.7(7610) 15.6.6(1281) 15.6.3(49) 15.6.5(29) 15.6.4(23) 15.5.4(10)...	Derue(3772) Cuciuc(1903) Bain(1216) Olariu(1215) Escallier(319) Vivarelli(111)...	25	863	
FR: ANALY_LYON_DCACHE	20100408-12	24	user(1960) panda(23)	pathena(1951) prun(32)	15.6.7(1898) 15.6.3(46) 15.6.5(16) 15.6.1(13) 15.6.6(8) 15.5.4(2)...	Olariu(1069) Torres(202) Okawa(178) Lange(119) Escallier(81) Makovec(68)...	24	744	
FR: ANALY_LYON_DCACHE	20100409-12	24	user(2655) panda(15)	pathena	15.6.7(2426) 15.6.8(120) 15.6.3(63) 15.6.6(38) 15.6.5(21) 15.6.4(2)...	bouhova-thacker(1795) Laplace(310) Gonzalez(243) Ippolito(120) Maurer(49) Lange(37)...	16	730	
FR: ANALY_LYON_DCACHE	20100410-12	24	user(5467) panda(33)	pathena(5473) prun(27)	15.6.8(2462) 15.6.7(2200) 15.6.3(503) 15.6.6(314) 15.6.5(21)	bouhova-thacker(1429) Benekos(1347) Liu(964) Nunes-Hanninger(502) Therhaag(501) Gramstad(1)	25	856	

Users from
everywhere!

List of pATHENA users

Configuration	Production Clouds Incidents DDM PandaMover AutoPilot Sites Releases Analysis Stats Physics data Usage ProdDash DDMDash		
0 min old	Update		Not logged in. List users
Panda monitor	Times are in UTC		
Panda info and help			
Jobs - search	Users in the last 3 days: 317 7: 405 30:624 90:836 180:1004 Usage in the last 6 months: Job count: 510575 Users with >1000 jobs: 81 >10k jobs: 5		
States: running , defined , waiting , assigned , activated , finished , failed			
Types: analysis , prod , install , test			
Quick search			
Job			
Dataset			
Task request			
Task status			
File			
Summaries			
Blocks: days			
Errors: days			
Nodes: days			
Usage 1 , 3 days			
Tasks - search			
Generic Task Req			
EvGen Task Req			
CTBsim Task Req			
Task list			
New Tag			
Bug Report			
Task overview query			
Datasets - search			
Popular datasets			
Aborted datasets			
Datasets Browser			
Recent Panda Users			
Users in the last 7 days:			
	User	Jobs	Latest
	Eric Feng	123947	2010-04-12 02:03
	Matthew King	19901	2010-04-12 08:02
	Saminder Dhaliwal	14175	2010-04-12 08:03
	Yanwen Liu	11597	2010-04-12 05:12
	Johannes Elmsheuser	10209	2010-04-12 07:51
	Robert Calkins	9602	2010-04-12 06:09
	evelina bouhova-thacker	9310	2010-04-10 16:57
	Jean-Baptiste De Vivie De Regie	9229	2010-04-12 07:25
	PRAFULLA K BEHERA	9080	2010-04-10 03:13
	Thomas Koffas	8905	2010-04-12 08:02
	Attilio Picazio	8490	2010-04-11 20:15
	Remi ZAIDAN	8250	2010-04-11 23:38
	Jeremiah Jet Goodson	8000	2010-04-12 08:00
	Heather Gray	7718	2010-04-12 04:30
	Duc Bao Ta	7264	2010-04-12 07:59
	Hong Ma	7107	2010-04-12 08:02
	Nectarios Benekos	6193	2010-04-12 07:00
	Nabil Ghodbane	6170	2010-04-12 05:58
	Mathieu Aurousseau	5965	2010-04-12 07:53

irfu

cea

saclay

[Configuration](#)[Update](#)[Panda monitor](#)Times are in UTC
[Panda info and help](#)**Jean-Francois Marchand**[This is me, log me in](#)[Click for help](#)[Jobs - search](#)States: [running](#),
[defined](#), [waiting](#),
[assigned](#), [activated](#),
[finished](#), [failed](#)
Types: [analysis](#), [prod](#),
[install](#), [test](#)[Quick search](#)

Job

Dataset

Task request

Task status

File

[Summaries](#)Blocks: [days](#)
Errors: [days](#)
Nodes: [days](#)
Usage [1](#) [3](#) days[Tasks - search](#)[Generic Task Req](#)[EvGen Task Req](#)[CTBsim Task Req](#)[Task list](#)[New Tag](#)[Bug Report](#)[Task overview query](#)[Datasets - search](#)[Popular datasets](#)[Aborted datasets](#)[Datasets Browser](#)[Datasets Distribution](#)[Data Transfer Request](#)[DaTRI: Requests list](#)[AODs](#)[EVNTs](#)[Conditions DS](#)[DB Releases](#)[SIT pacballs](#)[Validation Samples](#)[Functional Tests](#)

irfu

cea

saclay

Usage table stats are updated hourly. Usage calculation for purposes of quota is calculated independently, in real time.

Jobs: 2733 jobs in the last week, latest at 2010-04-12 08:00

	Usage (CPU hrs)	1 day	7 day
Analysis	1117	2877	
Group production	0	0	
Express production	0	0	

Job types: analysis (2733)

24hr quota: 500 CPU hours (usage above quota triggers [priority degradation](#))

Groups:

Summary of all jobs for the last 3 days, jobID any in any state at any site [Go](#) [Retrieve All](#)

1572 jobs. Click job number to see details.

States: activated:86 holding:7 finished:694 failed:785

Users (1): [Jean-Francois Marchand:1572](#)Releases (1): [Atlas-15.6.7:1572](#)Processing types (1): [pathena:1572](#)Job types (2): [panda:4](#) user:[1568](#)Transformations (2): [buildJob-00-00-03:4](#) [runAthena-00-00-11:1568](#)Sites (4): [ANALY_BNL_ATLAS_1:419](#) [ANALY_LONG_BNL_ATLAS:367](#) [ANALY_LONG_LYON:419](#) [ANALY_SARA:367](#)Jobsets (4): [926:419](#) [925:367](#) [924:419](#) [923:367](#)

To select a jobID not listed use the blue form above

[Show datasets used by selected jobs](#)

Showing 4 jobsets modified from 2010-04-12 06:15 to 2010-04-11 09:12

Job Sets:

User:jobID	Created	Latest	Jobs	Pre-run	Running	Holding	Finished	Failed	buildJob	Site
Jean-Francois Marchand:926	2010-04-12 05:44	2010-04-12 05:44	419	86		7	326		1060922338 lbdS	ANALY_BNL_ATLAS_1
	In: data10_7TeV.00152779.physics_MinBias.recon.ESD.f243 Out: user10.Jean-FrancoisMarchand.data10_7TeV.00152779.physics_MinBias.recon.ESD.f243 CN8 20100412									
Jean-Francois Marchand:925	2010-04-11 22:23	2010-04-11 22:23	367				367		1060858806 lbdS	ANALY_LONG_BNL_ATLAS
	In: data10_7TeV.00152777.physics_MinBias.recon.ESD.f243 Out: user10.Jean-FrancoisMarchand.data10_7TeV.00152777.physics_MinBias.recon.ESD.f243 CN8 20100411_1									
Jean-Francois Marchand:924	2010-04-11 21:24	2010-04-11 21:24	419					419	1060852319 lbdS	ANALY_LONG_LYON
	In: data10_7TeV.00152779.physics_MinBias.recon.ESD.f243 Out: user10.Jean-FrancoisMarchand.data10_7TeV.00152779.physics_MinBias.recon.ESD.f243 CN8 20100411									
Jean-Francois Marchand:923	2010-04-11 08:44	2010-04-11 08:44	367					1	1060701439 lbdS	ANALY_SARA
	In: data10_7TeV.00152777.physics_MinBias.recon.ESD.f243 Out: user10.Jean-FrancoisMarchand.data10_7TeV.00152777.physics_MinBias.recon.ESD.f243 CN8 20100411									



Configuration [Production](#) [Clouds](#) [Incidents](#) [DDM](#) [PandaMover](#) [AutoPilot](#) [Sites](#) [Releases](#) [Analysis](#) [Stats](#) [Physics data](#) [Usage](#) [ProdDash](#) [DDMDash](#)

[Update](#) Not logged in. [List users](#)

Panda monitor
Times are in UTC

[Panda info and help](#)

Jobs - search
States: [running](#), [defined](#), [waiting](#), [assigned](#), [activated](#), [finished](#), [failed](#)
Types: [analysis](#), [prod](#), [install](#), [test](#)

Quick search
Job
Dataset
Task request
Task status
File

Summaries
Blocks: days
Errors: days
Nodes: days
Usage [1](#), [3](#) days

Tasks - search
[Generic Task Req](#)
[EvGen Task Req](#)
[CTBsim Task Req](#)
Task list
New Tag
Bug Report
[Task overview query](#)

Datasets - search
[Popular datasets](#)
[Aborted datasets](#)
[Datasets Browser](#)

Datasets Distribution
[Data Transfer Request](#)
[DaTRI: Requests list](#)

[AODs](#)
[EVNTs](#)
[Conditions DS](#)
[DB Releases](#)
[SIT pacballs](#)
[Validation Samples](#)
[Functional Tests](#)
[ATLAS Data](#)
[Reprocessed Datasets](#)

Description
This is a event data dataset containing data for run 00152779 processed in task [data10_7TeV.00152779.physics_MinBias.recon.f243](#)

[Run details for run 00152779](#)

Transformation tags: f243 [Interpret tags and show transformation configuration](#)

DQ2 registration:
data10_7TeV.00152779.physics_MinBias.recon.ESD.f243 is registered in DQ2..
It is frozen in DQ2. Its content is fixed, and a new version cannot be created.
Created 2010-04-11 01:29:49 UTC
Owner /DC=ch/DC=cern/OU=Organic Units/OU=Users/CN=nairz
Latest version 1 created 2010-04-11 01:29:49 UTC with VUID b851a7d8-4509-11df-a483-001617c3b724
Frozen at 2010-04-11 08:02:44 UTC
Last operation from atltp1.cern.ch by /DC=ch/DC=cern/OU=Organic Units/OU=Users/CN=nairz

Full metadata spec:

```

name          : data10_7TeV.00152779.physics_MinBias.recon.ESD.f243
#replicas      : 5
closedate     : None
creationdate  : 2010-04-11 01:29:49
deletedate    : None
duid          : b851a4e0-4509-11df-a483-001617c3b724
freezingdate  : 2010-04-21 01:29:49
frozendate   : 2010-04-11 08:02:44
lastoperationdn: /DC=ch/DC=cern/OU=Organic Units/OU=Users/CN=nairz
lastoperationip: atltp1.cern.ch
latestversion : 1
latestvuid    : b851a7d8-4509-11df-a483-001617c3b724
origin        : None
owner          : /DC=ch/DC=cern/OU=Organic Units/OU=Users/CN=nairz
physicsgroup  : None
state          : frozen
temperature   : None
tier0state    : PROCESSED
tier0type     : [IN2P3-CC_DATADISK, BNL-OSG2_DATADISK, CERN-PROD_DATADISK], []
type          : 1
version        : 1
versioncreationdate: 2010-04-11 01:29:49
vuid          : b851a7d8-4509-11df-a483-001617c3b724

```

Access

The `dq2-get -f <files> <dataset>` command can be used to retrieve the full dataset or a subset of files from it
`dq2-get [options] [files] data10_7TeV.00152779.physics_MinBias.recon.ESD.f243`
The `dq2-ls` command allows wildcarded listings of datasets or files within them.
[See the documentation](#) for `dq2-get -f <files> <dataset>` and `dq2-ls` details.

Registered locations for the latest dataset version
INCOMPLETE:
COMPLETE: [AGLT2_DATADISK](#) [BNL-OSG2_DATADISK](#) [CERN-PROD_DATADISK](#) [CERN-PROD_TZERO](#) [IN2P3-CC_DATADISK](#)

Dataset subscriptions (click destination site to get subscription details from DQ2 monitoring)

irfu

cea

saclay

```
computingElement      gridgk05.racf.bnl.gov
jobParameters        -l user10.Jean-FrancoisMarchand.0412054400.2478.lib_000926.lib.tgz -r ConversionDumper/run/ -j "%20Dumper_data.py" --dbFile DBRelease-9.5.1.tar.gz -i
                     "[data10_7TeV.00152779.physics_MinBias.recon.ESD.f243._lb0270._0014.1', 'data10_7TeV.00152779.physics_MinBias.recon.ESD.f243._lb0270._0015.1',
                     'data10_7TeV.00152779.physics_MinBias.recon.ESD.f243._lb0271._0001.1', 'data10_7TeV.00152779.physics_MinBias.recon.ESD.f243._lb0271._0002.1',
                     'data10_7TeV.00152779.physics_MinBias.recon.ESD.f243._lb0271._0003.1', 'data10_7TeV.00152779.physics_MinBias.recon.ESD.f243._lb0271._0004.1',
                     'data10_7TeV.00152779.physics_MinBias.recon.ESD.f243._lb0271._0005.1]" -m "[]"-n "[]"-o "{'THIST': [('AANT', 'user10.Jean-
                     FrancoisMarchand.data10_7TeV.00152779.physics_MinBias.recon.ESD.f243_CN8_20100412.AANT_00418.root')]}"-sourceURL https://voatlas59.cern.ch:25443
                     --inDS data10_7TeV.00152779.physics_MinBias.recon.ESD.f243 --outDS user10.Jean-FrancoisMarchand.data10_7TeV.00152779.physics_MinBias.recon.ESD.f243_CN8_20100412 --nFilesPerJob 10 --tmpDi
                     /tmp "--dbRelease=ddo.000001.Atlas.Ideal.DBRelease.v090501:DBRelease-9.5.1.tar.gz" --site ANALY_BNL Dumper_data.py
prodDBlock           data10_7TeV.00152779.physics_MinBias.recon.ESD.f243
dispatchDBlock       --
destinationDBlock   user10.Jean-FrancoisMarchand.data10_7TeV.00152779.physics_MinBias.recon.ESD.f243_CN8_20100412
```

Bad habits remain!

Need Help?

- Analysis help hn-atlas-dist-analysis-help@cern.ch
 - First line of defense
 - Please subscribe! Very useful!
 - 24/7 Shifters behind!
- Cloud related atlas-support-cloud-fr@cern.ch
- CC specific user.support@cc.in2p3.fr

Temporary conclusions

- 4 queues at Lyon may be too much : Only one LONG, dCache queue?
- dCache & Xrootd batch resources should be decoupled (Pierre?)
- Xrootd queue low throughput prevents high throughput for the whole site
- dCache queue performs very well (processing rate) in presence of high MC production
- Until ATLAS data format change tested at Lyon, xRootd queue pilot rate should be lowered