

# Site monitoring

R.Sawada  
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## Availability of WLCG Tier-0 + Tier-1 Sites

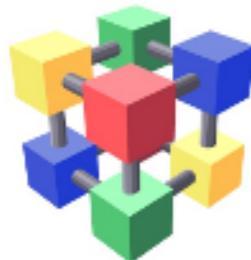
### ATLAS

January 2017

Target Availability for each site is 97.0%. Target for 8 best sites is 98.0%

Availability Algorithm: (OSG-CE + CREAM-CE + ARC-CE + HTCONDOR-CE) \* (all SRMv2 + all OSG-SRMv2)





## Tier-2 Availability and Reliability Report

January 2017

### ATLAS

#### Federation Summary - Sorted by Availability

Color coding:

N/A    <30%    <60%    <90%    >=90%

Availability Algorithm: (OSG-CE + CREAM-CE + ARC-CE + HTCONDOR-CE) \* (all SRMv2 + all OSG-SRMv2)

Federation	Availability	Reliability	Federation	Availability	Reliability
AU-ATLAS	100%	100%	UK-NorthGrid	98%	99%
CH-CHIPP-CSCS	100%	100%	PL-TIER2-WLCG	97%	97%
FR-IN2P3-CPPM	100%	100%	SI-SiGNET	97%	97%
FR-IN2P3-LPC	100%	100%	US-SWT2	97%	97%
JP-Tokyo-ATLAS-T2	100%	100%	DE-DESY-RWTH-CMS-T2	96%	99%
PT-LIP-LCG-Tier2	100%	100%	US-MWT2	96%	96%
T2-LATINAMERICA	100%	100%	DE-FREIBURGWUPPERTAL	95%	95%
TW-FTT-T2	100%	100%	UK-SouthGrid	95%	95%
US-AGLT2	100%	100%	IT-INFN-T2	93%	94%
CA-WEST-T2	99%	99%	UK-London-Tier2	93%	93%
DE-DESY-GOE-ATLAS-T2	99%	99%	US-NET2	91%	91%
ES-ATLAS-T2	99%	100%	CA-EAST-T2	88%	90%
FR-GRIF	99%	99%	CZ-Prague-T2	85%	86%
FR-IN2P3-LAPP	99%	99%	RO-LCG	83%	83%
FR-IN2P3-LPSC	99%	100%	RU-RDIG	80%	80%
UK-ScotGrid	99%	100%	TR-Tier2-federation	76%	76%
CN-IHEP	98%	100%	SE-SNIC-T2	72%	75%
IL-HEPTier-2	98%	98%	DE-MCAT	50%	50%
SK-Tier2-Federation	98%	100%	AT-HEPHY-VIENNA-UIBK	46%	58%

DE-MCAT : No compatible resource found in BDII

HEPHY-VIENNA : No compatible resource found in BDII (already recovered)

# Status of SAM development

- **Selection of queues for SAM test**
  - In a WLCG meeting, we agreed to add a new flag “ETF\_default” to select a queue for SAM.
    - I am waiting for it is implemented in AGIS
  - pg\_default=1 and score queues will be ETF\_default=1.
    - There are some CE services which do not have corresponding queue.
      - ETF\_default will be manually set (the list of those queues is prepared)
  - Once it is done, SAM can be independent of BDII
- **ASAP**
  - New profile is added in SAM visualization for ASAP\_prod.
    - Still don't see data, I am asking Pablo how to enable it.
- **Support of multiple DDM protocols**
  - The idea is to test all protocols
  - Select a protocol each for PUT/GET/DEL and use them for ATLAS\_CRITICAL
  - A flag is needed to know which protocol should be used for ATLAS\_CRITICAL
    - A new flag in AGIS ?

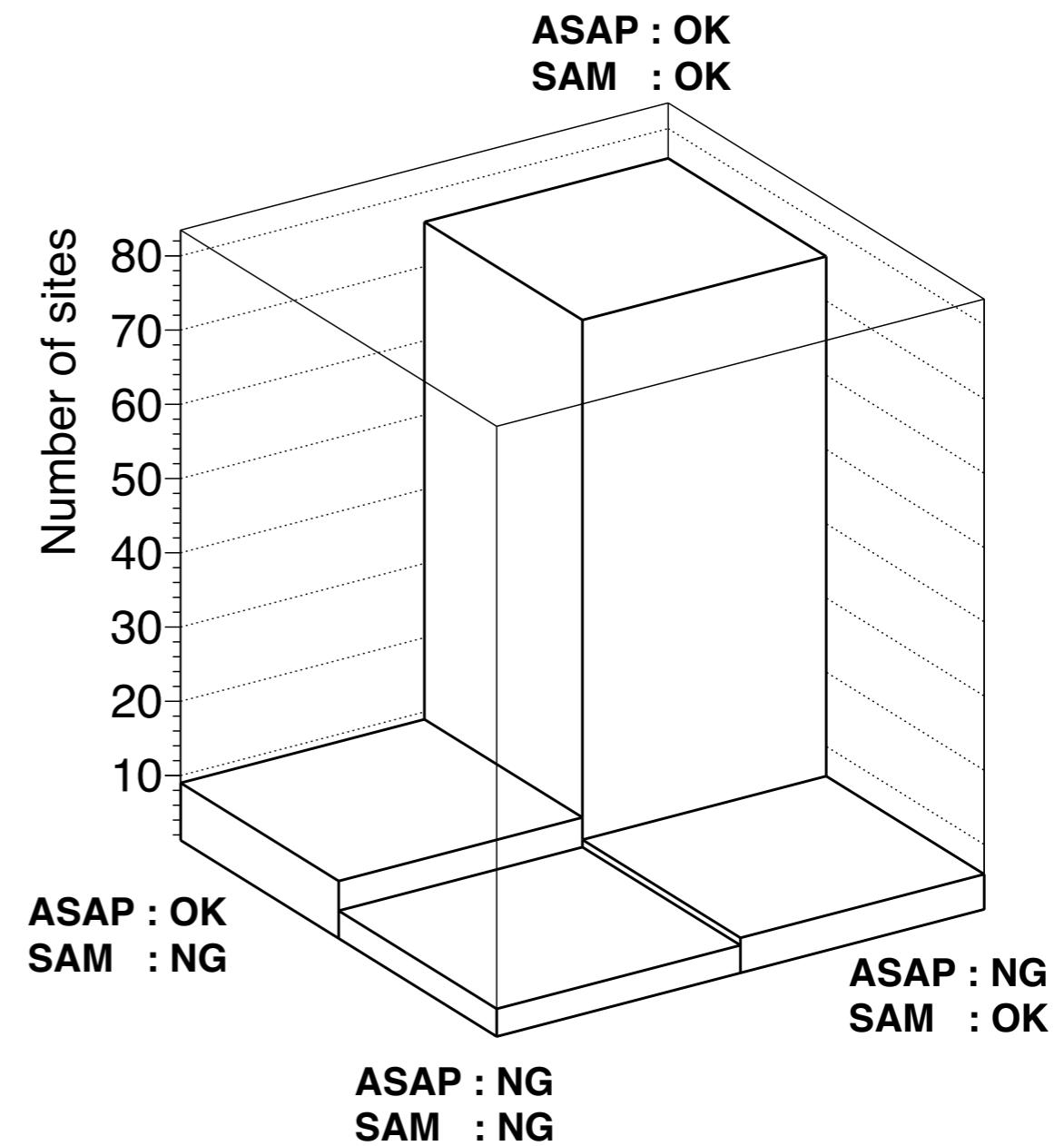
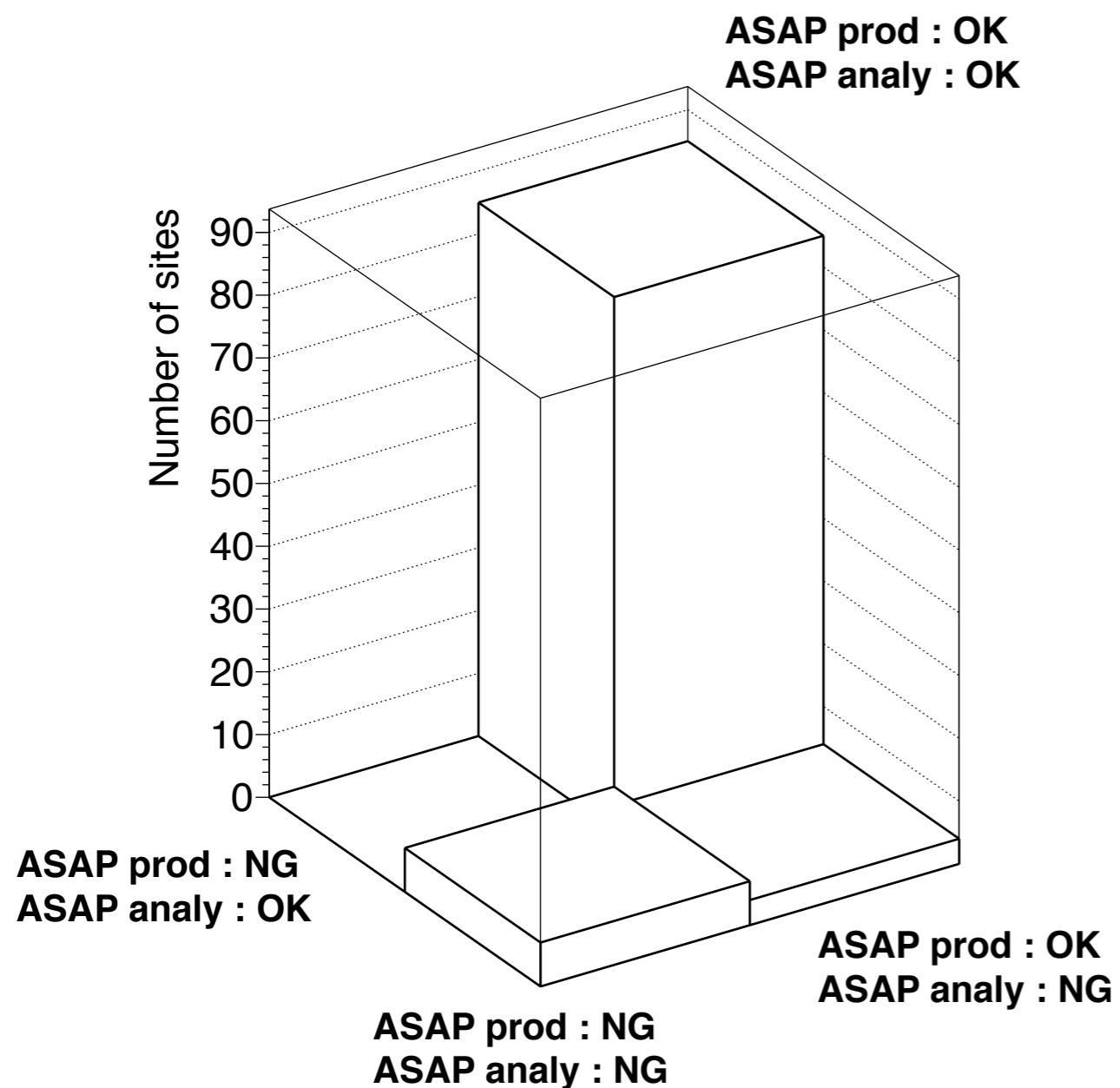
# SAM : ASAP prod : ASAP analy comparison

The figure shows the correlation of ASAP prod vs ASAP analy, and ASAP vs SAM.

All the tests are OK in most of the sites.

The result of three tests don't always the same.

→ It is worth to do all the tests.

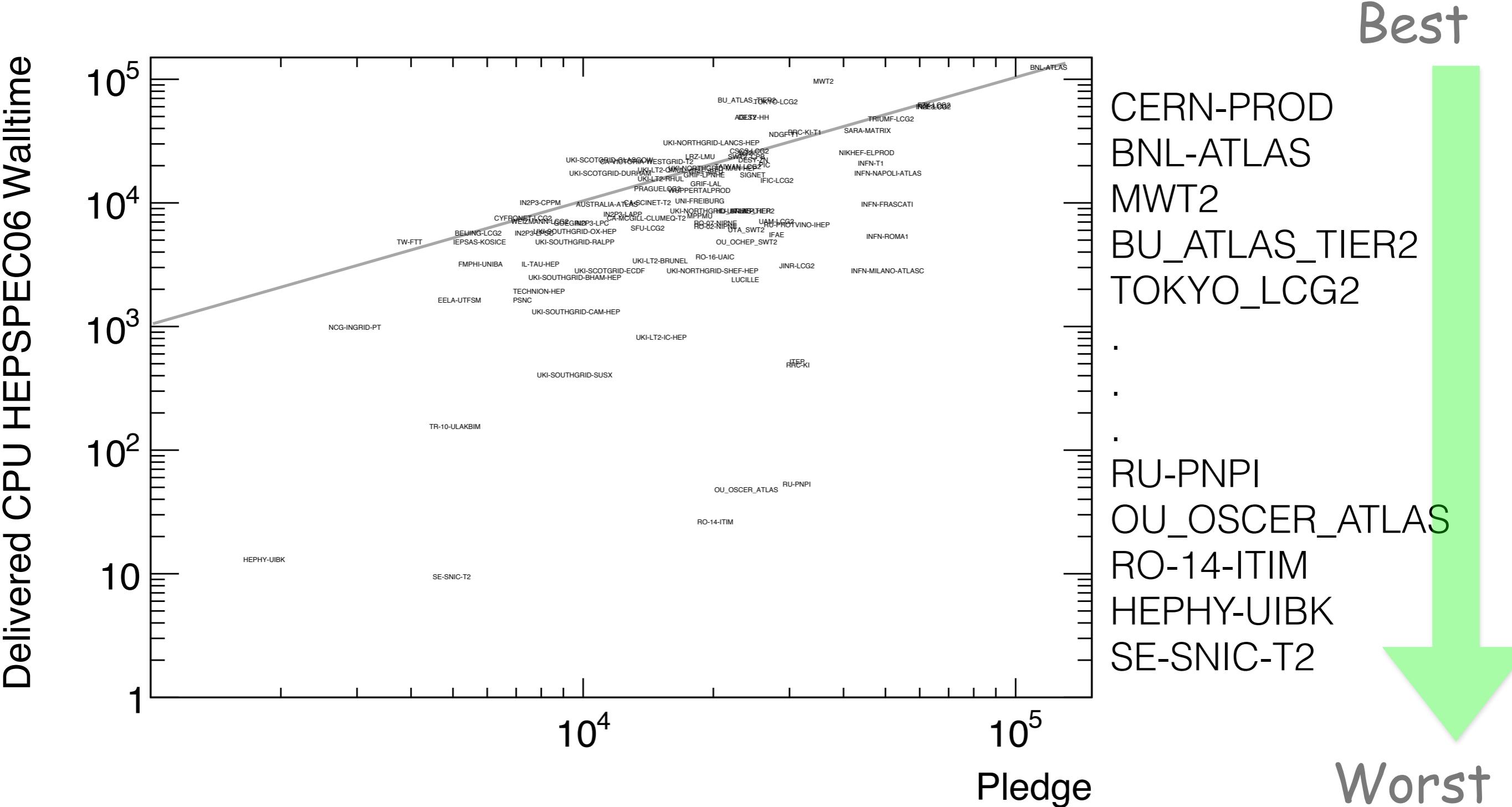


SAM OK = availability > 50%

# Pledge and efficiency

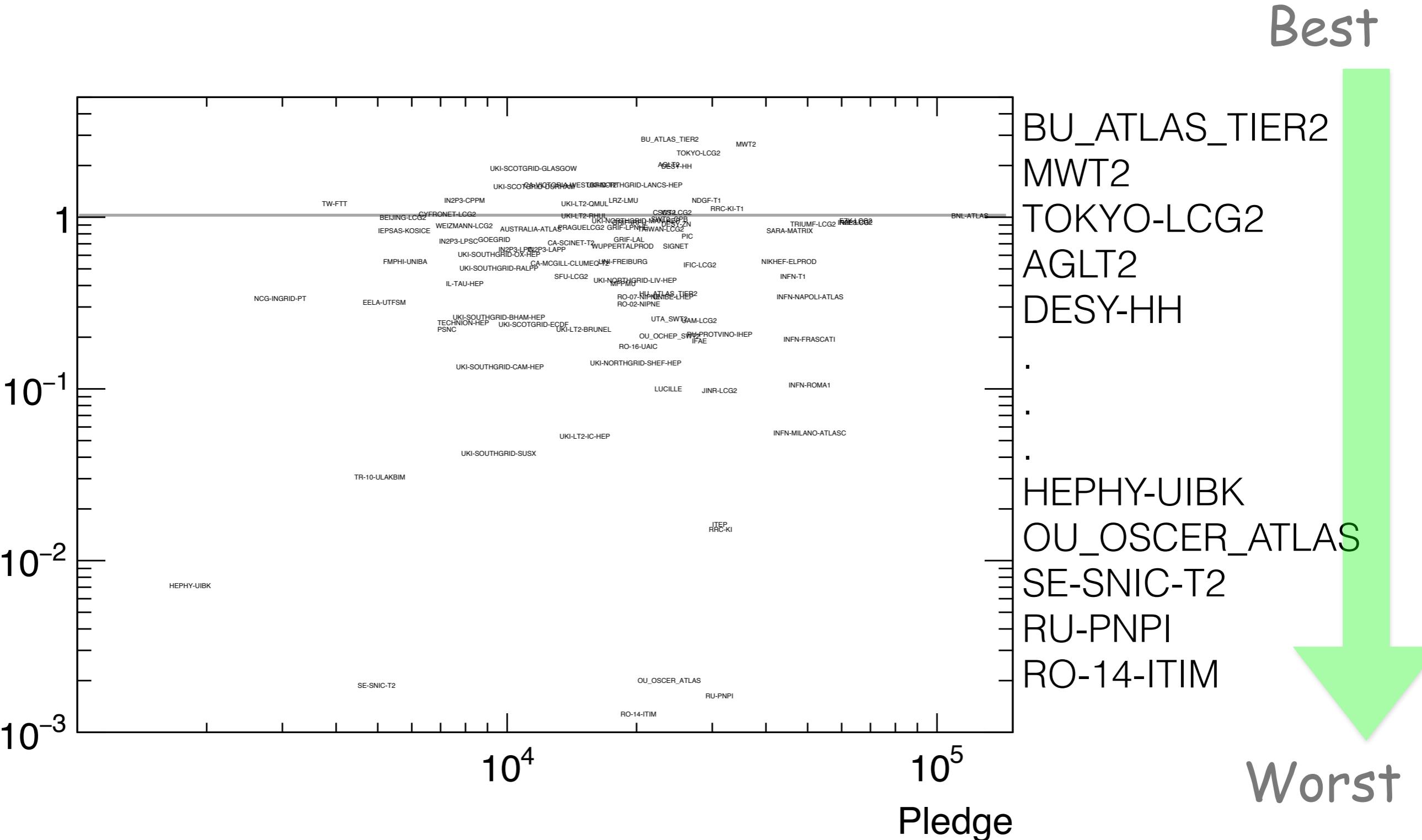
- In the following pages, I put a comparison of the delivered CPU and pledge.
  - Delivered CPU : average Wallclock HEPSPEC06 in the last month
  - Efficiency : successful / all accomplished jobs
- In the plots, site names are written with small characters; you can magnify the PDF file to see the names.

# Wallclock HEPSPEC06 vs pledge

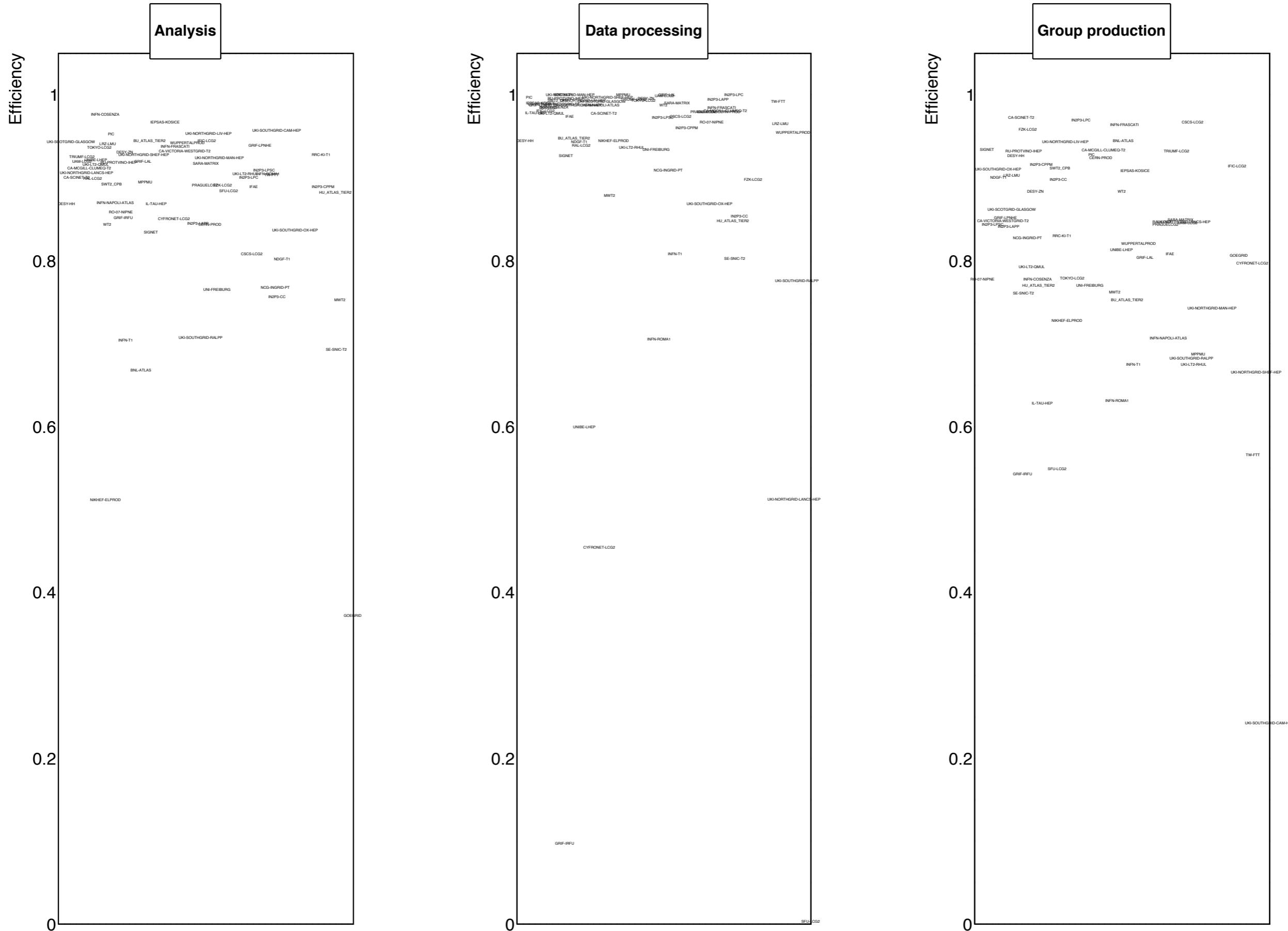


# Wallclock HEPSPEC06/pledge vs pledge

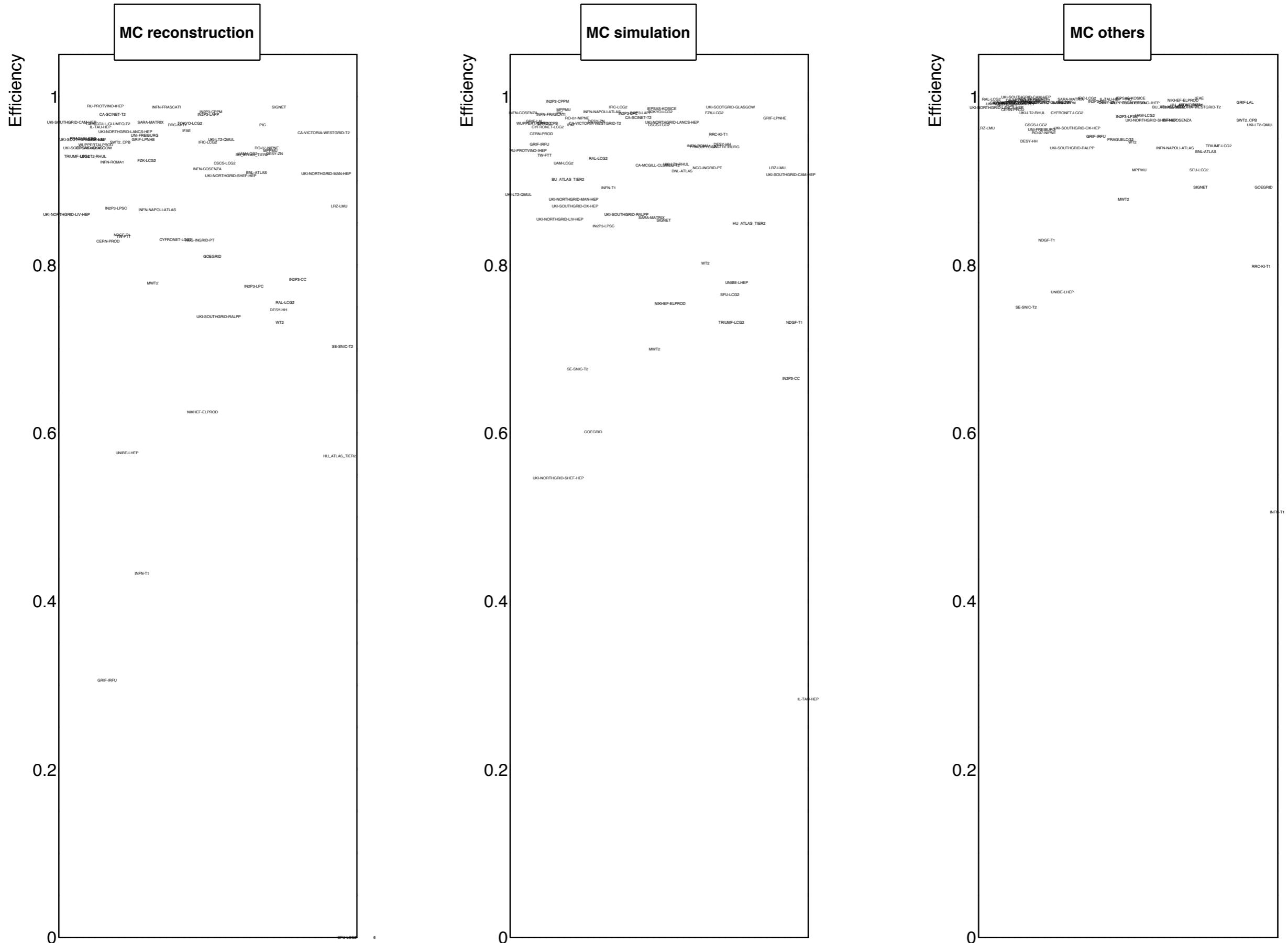
Delivered CPU HEPSPEC06 Walltime / pledge



# Job Efficiency



# Job Efficiency



# Summary

- I checked correlations of several metrics.
- There are several metrics which can be used to categorize sites
  - SAM site A/R
  - ASAP analy/prod
  - Delivered CPU vs pledge
  - Job efficiency