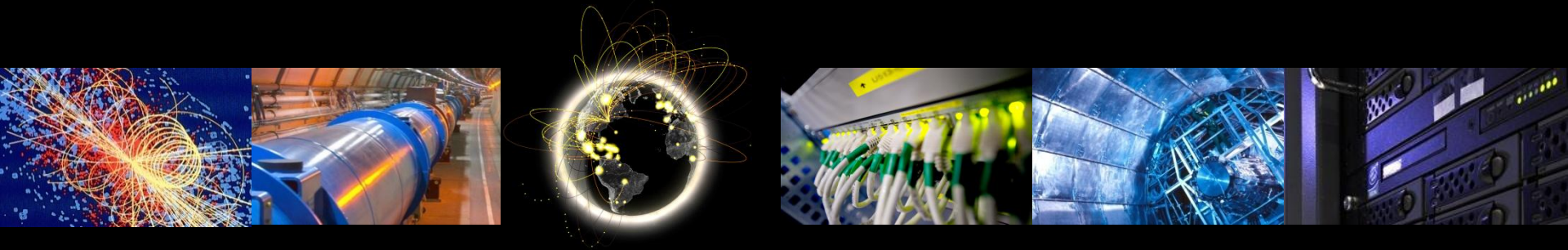# Requirements for GLUE 2.0

Maria Alandes Pradillo, CERN

CERN IT Department, Grid Technology Group

GDB 12th December 2012

WLCG
Worldwide LHC Computing Grid

Overview

- Introduction

- GLUE 2.0 deployment status

- GLUE 2.0 validation

- GLUE 2.0 clients: ginfo

- Static vs Dynamic vs Metadata in GLUE 2.0
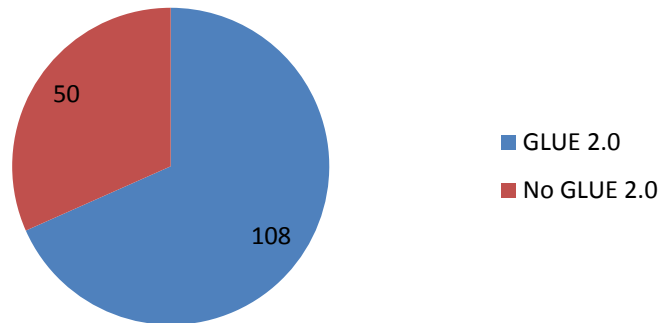
- GLUE 2.0 in OSG

- Conclusions

Introduction

- This presentation is based on the discussions held at the Information System meeting with users

  - Monthly meeting

  - IS experts, experiments, EGI and OSG

  - First meeting last week:

    - https://indico.cern.ch/conferenceDisplay.py?confId=220247

- General twiki page tracking user requirements

  - https://twiki.cern.ch/twiki/bin/view/EGEE/ISUserReq

Glue 2.0 deployment status

GLUE 2.0 Deployment in WLCG

- GLUE 2.0
- No GLUE 2.0

108
50

WLCG sites not publishing GLUE 2.0

- EGI
- OSG
- Others

10
12
28
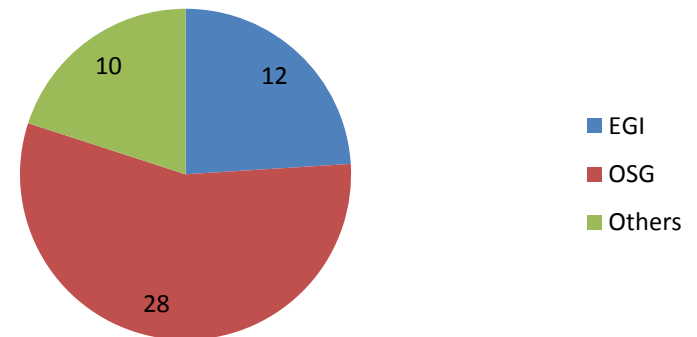
10 EGI sites more are publishing GLUE 2 since November GDB

GLUE 2.0 validation short term

- On going work to implement EGI profile document for GLUE 2.0 in glue-validator
  - http://go.egi.eu/glue2-profile
    - One test per attribute

- Short-term: Integrate glue-validator in SAM
  - Monitor GLUE 2.0 compliance
  - Plan:
    - Request EGI to include glue-validator as a SAM probe → DONE
    - After approval, include glue-validator probe in the SAM release → Ideally January release
    - Start to monitor glue-validator errors as soon as the SAM release is deployed in the different Nagios instances → Ideally end of January

GLUE 2.0 validation long term

- Long-term: Integrate glue-validator in the resource BDII
  - Enforce more strict checking of GLUE 2.0 compliance before publication
    - glue-validator runs in the resource BDII
    - Resource BDII only publishes GLUE 2.0 compliant information and publishes nothing otherwise.
  - Plan:
    - Integration of glue-validator with resource BDII in January 2013.
    - Integration of the new version of the resource BDII in all the other MW services:
      - This could take several months
      - Deployment in EGI could many more months

GLUE 2.0 clients: ginfo

- **New version of ginfo**
  - Extended use cases, not only Service Discovery
  - Will implement most popular Information System queries
    - Feedback from experiments based on current use:
      - Current ldapsearch queries
      - Current lcg-info/lcg-infosites queries
  - Feedback being collected
    - Development plan will be defined soon
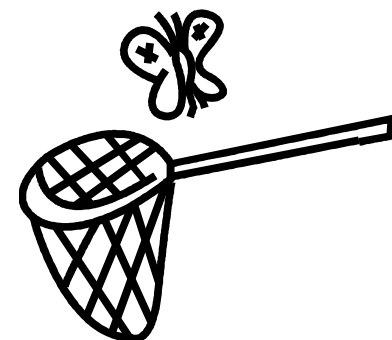
Static vs Dynamic vs Metadata in GLUE 2.0

- Use cases from experiments to be collected in the next Information System meeting with users
  - Which information is needed?
  - Static data can be provided by GOCDB?
  - Dynamic data can be provided with messaging?
- Feedback for ginfo will be very useful
  - Which GLUE 2.0 attributes are actually important

GLUE 2.0 in OSG

- No request from OSG stakeholders to implement GLUE 2.0

- GLUE 2.0 needs to be proven in EGI
  - It has to be widely deployed
  - Users have to trust GLUE 2.0 Information
  - Clients and information providers need to work
    - Work is on going as presented in the previous slides!

Conclusions

- On going effort to:
  - Deploy GLUE 2.0
  - Validate GLUE 2.0 information
  - Provide client tools
- Use cases from experiments will show the way to evolve the current architecture of the IS
- Successful GLUE 2.0 in EGI is needed to involve OSG

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