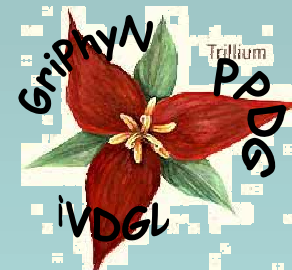# GLUE interoperability programme next steps

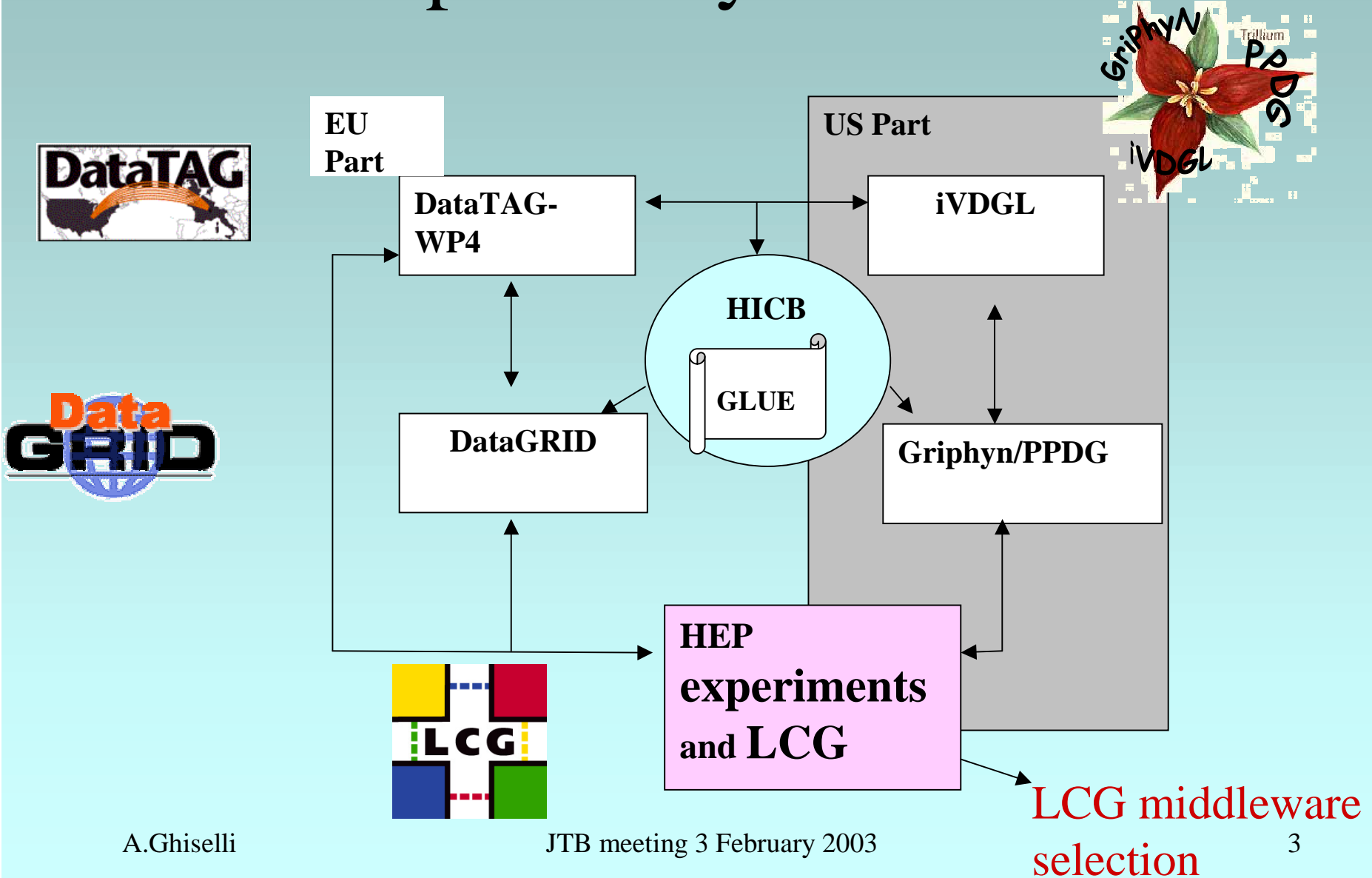**(contribution for discussion)**

Antonia Ghiselli

INFN-Cnaf

JTB meeting

3 February 2003

content

- Glue programme
- LCG middleware selection
- Glue Workplan: what about next steps?

Interoperability Framework

EU Part

US Part

DataTAG-WP4

iVDGL

HICB

GLUE

DataGRID

Griphyn/PPDG

HEP **experiments** and **LCG**

LCG middleware selection

GLUE programme

Programme stage 1 : VDT 1.x and EDG release 1.x

iVDGL - DataTAG interoperability group

- Phase I (done)
  - Authentication / Authorisation : demonstrate the ability to perform cross-organizational authentication / test common user authorization Services based on VO
  - Information System : demonstrate the ability to discover the existance and use grid services offered by the testbed; define minimal requirements on information services: glue information schema

- Phase II
  - Data movement infrastructure: demonstrate the ability to move data from storage services operated by one site to another. Software tested will include gridftp, rls and gdmp

- Phase III
  - Community authorization service: evaluation of the existing prototypes
  - Replica manager evaluation with the basic data storage and movement infrastructure.

First results

- GLUE schema for CE and SE

- VO-user-authorization mechanisms

- EDG-VDT Packaging and configuration rules

- test-bed demonstrating the validity of the solutions

LCG Middleware Selection (1/2) GDB WG 1

"This middleware selection document leverages this work by selecting middleware that conforms to the GLUE standards wherever possible. It is to be hoped that future developments will build on this commonality and define common standards for interoperability and the required schemas from the beginning".

Base components from VDT and EDG

- User tools and portals
- Information services
    - MDS 2.2 with GLUE schema 1.x
    - Information providers from EDG

LCG Middleware Selection 2/2

- AAA and VO
  - EDG mkgridmap, user-VO catalog
  - Evaluation of CAS and VOMS needed
  - Use of local KCA tickets (PKI-KCA mapping)
- Storage services
  - SRM as common interface to disk, HPSS, Castor..
- Data management and access
  - Replica Location Service (joint Globus/EDG SW)
  - Replica manager (EDG)
- Virtual Data Management
- Job management and scheduling
- Application services
- Distribution and configuration (iVDGL and Datatag is collaboration with LCG)
- Monitoring (evolution of the prototypes of the glue testbed)

Glue program next steps

- are the points in red suitable to be investigated within glue?

- Other points?

- Which working groups?
    - Role of LCG
    - Role of the experiments
    - Role of DataTAG/EDG and iVDGL (Trillium)

- Role of the glue testbed

EDG v 1.4.3 /GLUE (Schema, I.P., and RB)

To be installed within february 03:

- VO M S (VirtualO rganization M em bership Server)
  - Interconnected to m kgridm ap++
  - Backw ord com patibility

- Kerberos/PKI m apping
  - under testing

- M onitoring N agios/IS /I P.

- D ata m anagem ent
  - RLS and RM