

# Earth Sciences Applications for EGEE

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## EARTH SCIENCES

·COMMUNITY

Earth Observations: ESA(IT), IPSL(FR), KNMI(NL), UTV(IT), SRON(NL), RIVM(NL)

Climate: DKRZ (DE), BADC(UK), IPSL(FR), KNMI(NL) (information) Solid Earth Physics : IPGP(FR), laboratory (Munchen, DE) Hydrology: UNINE (CH), CRS4(Sardaina), Laboratory in Tunisie Geosciences:CGG(FR)



## VIRTUAL ORGANISATION

CERTIFICATES: large delay for some users

VO:

ESR (Earth Sciences Research): at Sara(NL) since the end of July

VO Manager: W. Som de Cerff(KNMI); VO administrator: T. Trompert (Sara)

Connection problem between the registration at CERN and the VO manager, solved only on 4 October.

7 persons registered and at least 4 not yet registered waiting for certificates or being registered at CERN before the 4 October-they need to do it again.

EGEODE(Expanding GEOsciences on Demand); being created at IN2P3 (Lyon, FR) since a few days

VO Manager: D. Thomas (CGG)



## ES ORGANISATION

Large variety of partners as it concerns the applications and Grid experience

⇒Development of tools to collaborate, discuss and solve common problems, and share knowledge

The ESR web site is a Twiki site that permits communication and collaboration between the ES partners. <u>http://datagrid.nadc.nl/twiki/bin/view/ESR/WebHome</u>

> Phone conference on monday (14h-15h) every two weeks (2)

Creation of temporary working groups about: Metadata access, MPI and, software installation and licensing like idl, fortran77 and 90, Geocluster

> The metadata and software installation WG have proposed some actions and take some decisions (see Twiki site)

## ES SITES

IPSL + IPGP: LCG2 deployed on UI, CE and SE with the help of the French ROC. Administrator: David Weissenbach (IPSL)

The site has belonged to the test zone since October 6.

ESA: Cluster of 8PC By the end of the week the last hardware part will be there

CGG; 10WN available

SCAI: available CE & 14 WN, SE with 0.5 TB (within October)

Sites that accept ESR VO: Nikhef, Sara, IN2P3 (Lyon), CERN

## APPLICATION DEPLOYMENT

#### Earth Observation:

(1) The application deployed on Datagrid is not yet entirely deployed on EGEE but it will occur in a near future.

> Delay due to registration problem, site installation, environment installation like IDL, no tools for application metadata catalogue....

Metadata database access by SQL script and test to be done with OGSA-DAI

>IDL is installed at IPSL site; other sites will install it

> Satellite data registered on the Replica catalogue

Lidar data registered this week

(2) The portal developed by ESRIN was upgraded and works

Climate:

Discussions DKRZ with BADC on security token exchange mechanisms

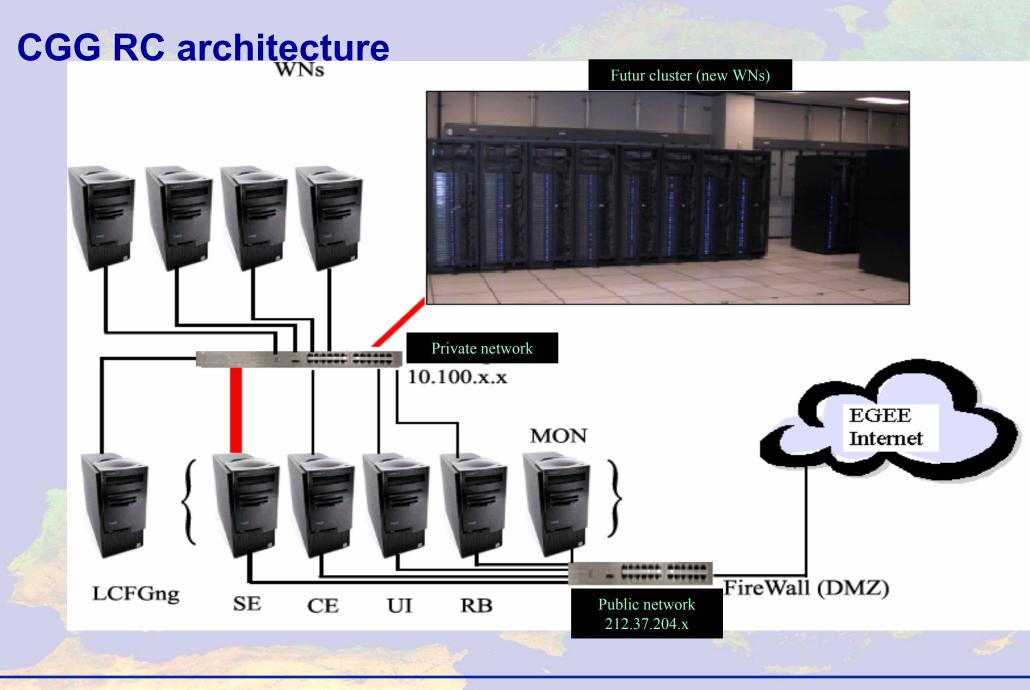
Next video conference with BADC on 1.Nov



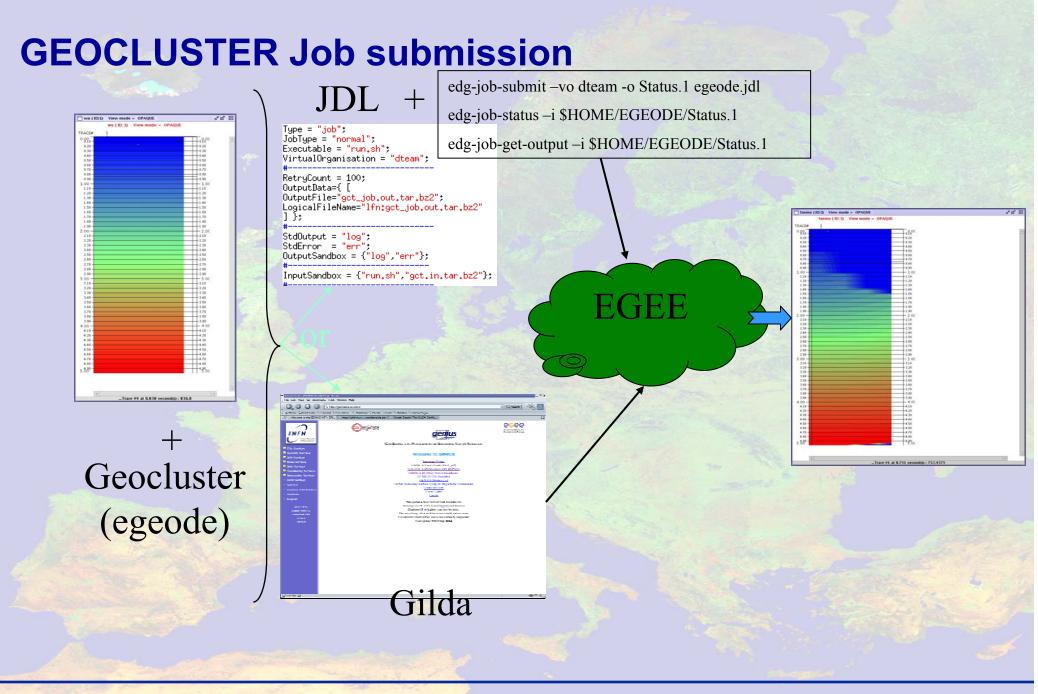
### APPLICATION DEPLOYMENT (part 2)

#### Hydrology:

Definition of an application and the corresponding software. Solid Earth Physics: Tomography application ported in June: 110 jobs Planning for deployment of the proposed applications on 14 October Geosciences: Geocluster Successful Tests on Gilda and EGEE (see next slides) Contact with Academic and industrial partners



ES Activity 13 October 2004 – Monique Petitdidier Slide 8



## REQUIREMENTS

>List with priority for each domain in the EGAAP documents

>User case for « outbound Connectivity » on september to NA3

> Actions: update of ES list and user cases, check the biomed requirement site and update it if needed

## DISSEMINATION

Demonstration with the ESRIN portal

>Oral presentation, posters to new ES domains and partners during scientific meetings