Earth Science Activity

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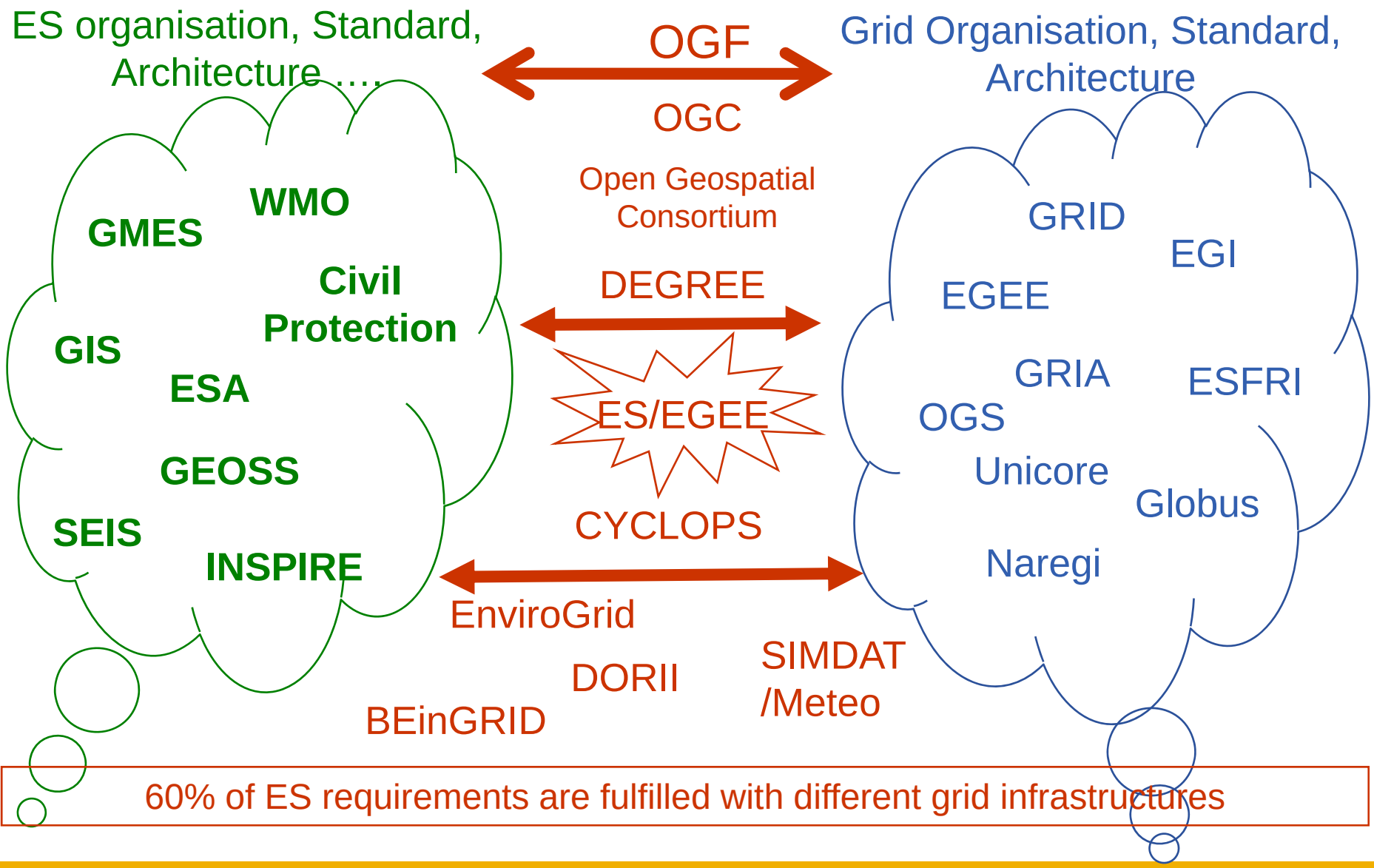
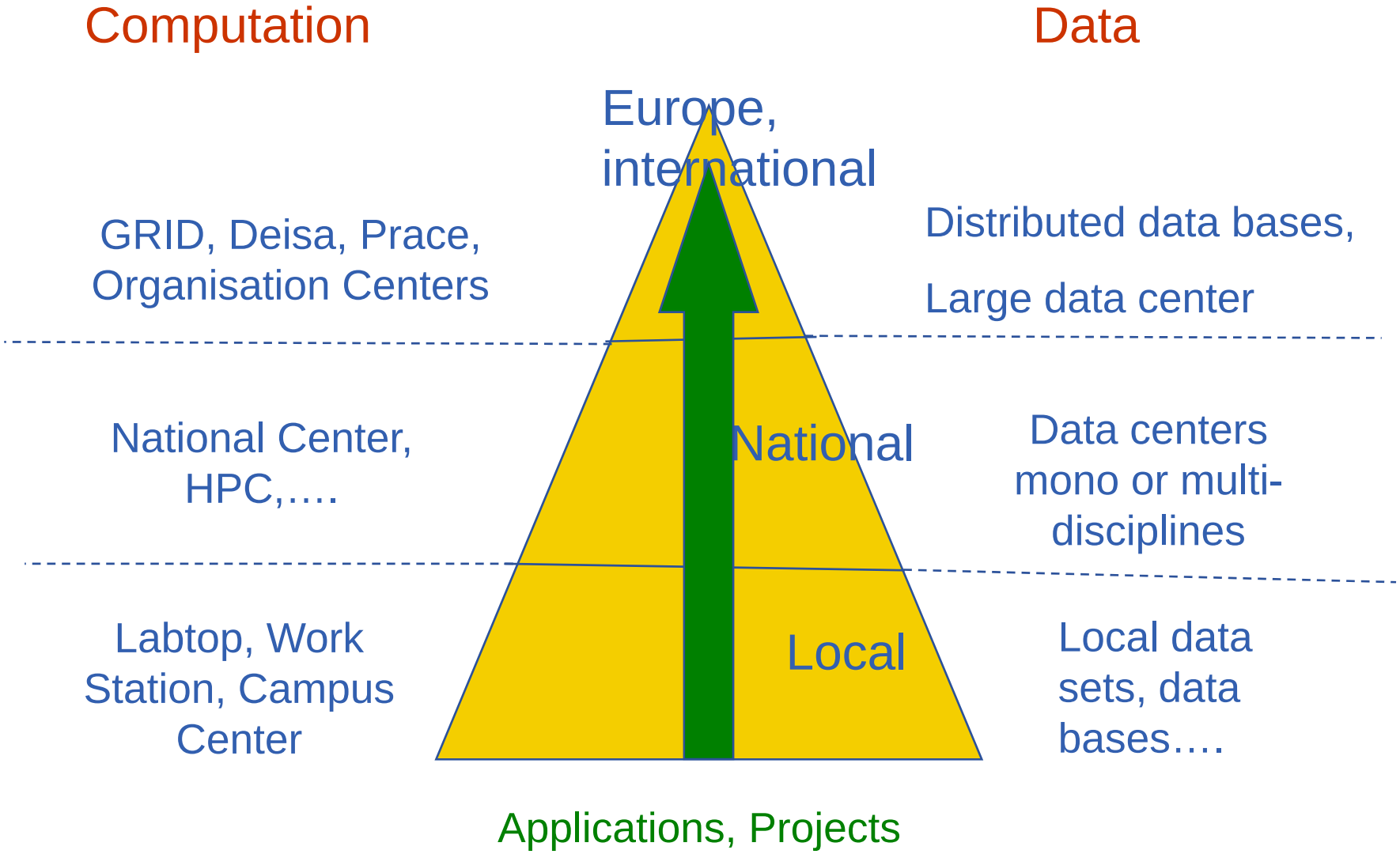
Information Society and Media

ES and GRID COMMUNITIES



ES data and computing Resources



Goal of the session

1-3 years

Short term

Long term

Short term
- To build the ES-Grid community and to significantly reduce the gaps towards a basic Grid infrastructure suitable for the needs of ES community
- Porting of applications from different ES disciplines throughout a wide community, initially for dissemination and moving gradually to more applications that produce useful results

… facilitate, within 2 years, the development and availability of shared data, metadata, and products commonly required across diverse societal benefit areas …

… sharing of information and full decentralised access (as of 2009)…

... metadata available for spatial data; discovery and view services operational,the EC establishes and runs a geo-portal at Community level

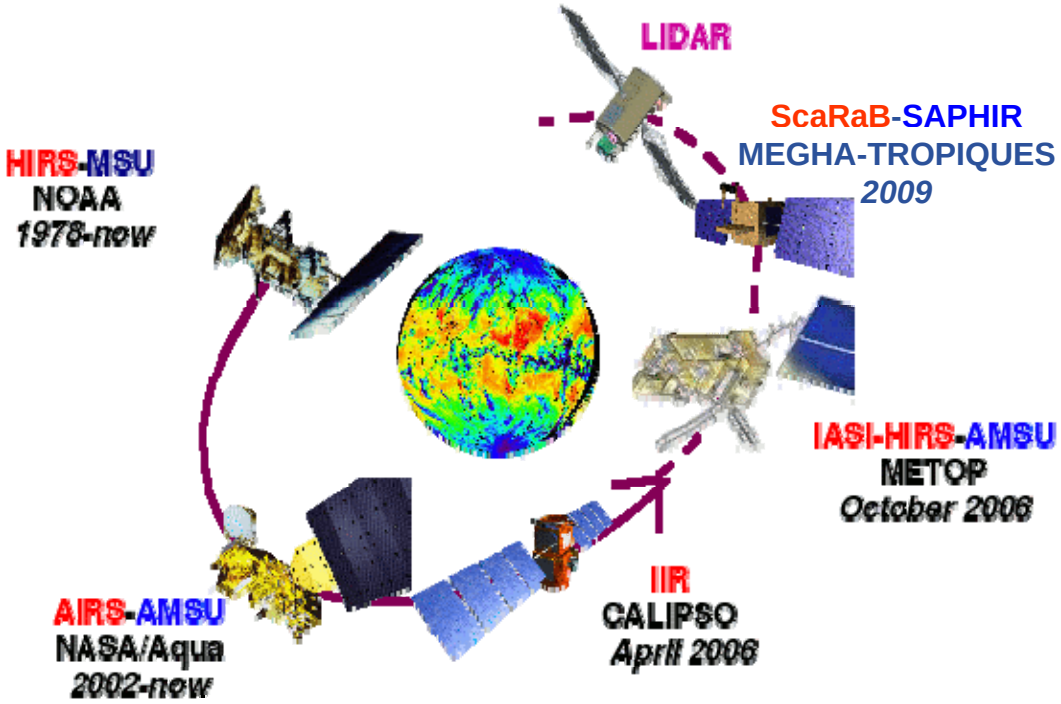
- Welcome new applications
- Build Grid ES community
  - Community using very common models, MM5/WRF, RAMS for meteorological and environmental applications
  - Secure Access to distributed Metadata
  - Seismology

New applications

- **Processing of long time series of meteorological satellite data (1978 - « now ») to extract climatological products(radiative flux) and populate the climate database, Thermodynamic Initial Guess Retrieval (tigr). L. Crépeau, R. Armante, N. A. Scott (IPSL/LMD, France)**

- **Simulation of the back-scattered signal of the CALIOP experiment aboard the CALIPSO, one of the A-train satellite constellations.**

F; Szczap, S.Bason (OPGC/LaMP, France)



EGEODE : Expanding Geosciences on demand

Geocluster on Grid

EGEODE VO statistics:

6 CNRS laboratories
IPGS/EOST Strasbourg
IPGP Jussieu Paris
LT/LGS Jussieu Paris
Sisyphe Jussieu Paris
ENS Géologie Paris
Géosciences Azur

24 CNRS users
12 CNRS active in 2008

2000 Geocluster batch jobs submitted in 2008
200 Gb of seismic data