

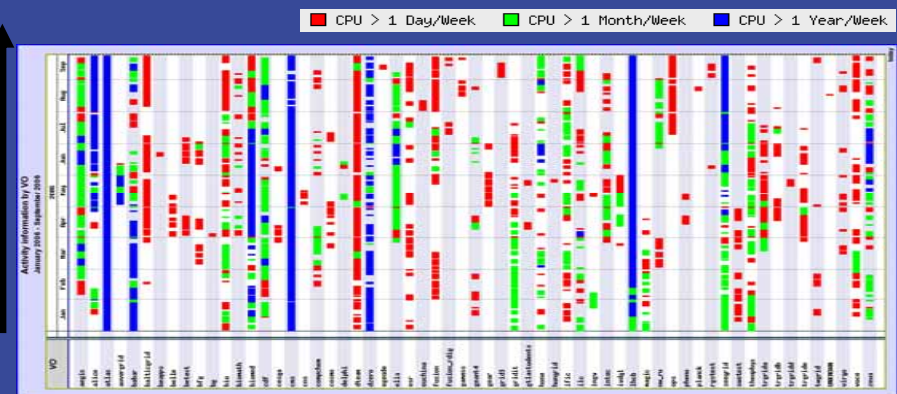
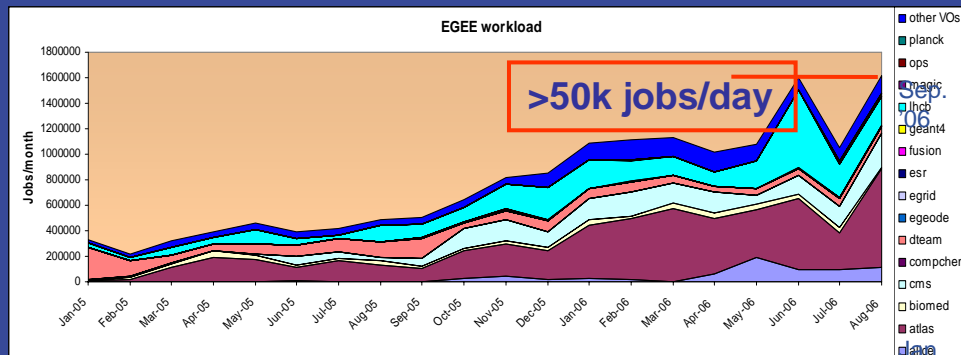
A European Vision and Plan for a Common Grid Infrastructure

European Grid Initiative

www.eu-egi.org

Why Sustainability?

- Scientific applications start to depend on Grid infrastructures (EGEE, DEISA, ...)



- New scientific collaborations have been formed thanks to the Grid infrastructure
- Business and Industry are getting very interested but need a long term perspective

Grids in Europe

- Examples of **National Grid** projects:
 - Austrian Grid Initiative
 - Belgium: BEgrid
 - DutchGrid
 - France: Grid'5000
 - Germany: D-Grid; Unicore
 - Greece: HellasGrid
 - Grid Ireland
 - Italy: INFNGrid; GRID.IT
 - NDGF
 - Portuguese Grid
 - Swiss Grid
 - UK e-Science: National Grid Service; OMII; GridPP
 - ...



Evolution

National



Global



Testbeds

Routine Usage

Utility Service

A European Vision ...

- for a universal e-Infrastructure for research⁽¹⁾

“An environment where research resources (H/W, S/W & content) can be readily shared and accessed wherever this is necessary to promote better and more effective research”

(1) Malcolm Read (Ed.) http://www.e-irg.org/meetings/2005-UK/A_European_vision_for_a_Universal_e-Infrastructure_for_Research.pdf

e-IRG Recommendations on Sustainable e-Infrastructures

- I: governments and the Commission should develop policies and mechanisms to encourage increased investment in a **more coherent and interoperable way** across Europe*
- II: the existing e-Infrastructure projects must be superseded by **integrated sustainable services** at national and European levels*
- III: e-Infrastructures must be **application-neutral and open to all user communities and resource providers**. National funding agencies should be encouraged to fund multi-disciplinary and inclusive infrastructures rather than disciplinary-specific alternatives*

e-IRG Recommendations on Sustainable e-Infrastructures



*IV: e-Infrastructures must **inter-operate and adopt international standard services and protocols** in order to qualify for funding*

*V: the Commission should, within the seventh Framework Programme, develop a pan-European e-Infrastructure which **explicitly encourages the further integration of national e-Infrastructure initiatives***

e-IRG Task Force on Sustainable e-Infrastructures (Sel)

http://www.e-irg.org/publ/2006-Report_e-IRG_TF-SEI.pdf

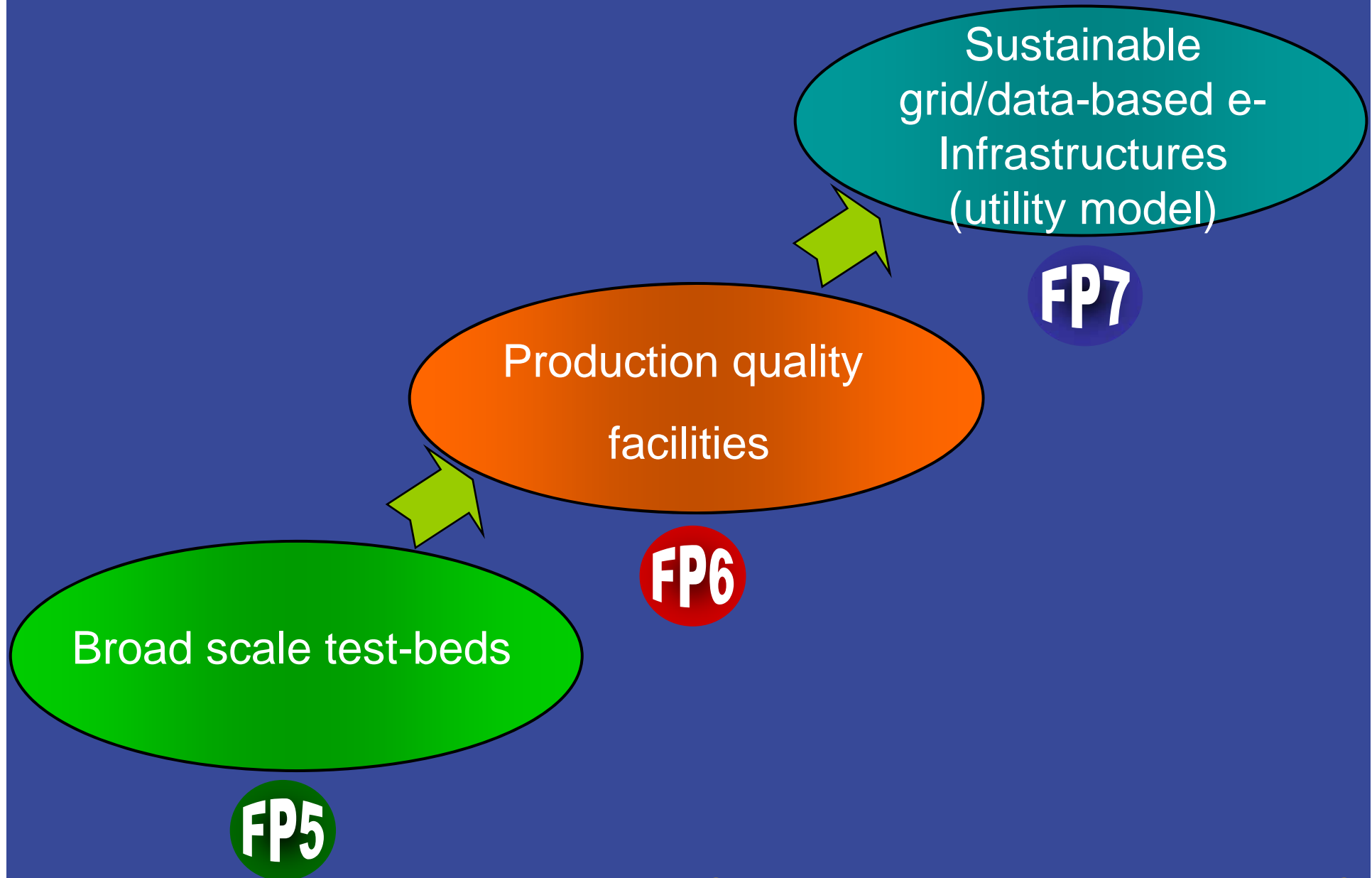
European Commission



“...for Grids we would like to see the move towards **long-term sustainable initiatives** less dependent upon EU-funded project cycles”

- Viviane Reding, Commissioner, European Commission, at the EGEE'06 Conference, September 25, 2006

Towards sustainable grid-empowered e-Infrastructures



Sustainability

Need to prepare permanent **Common Grid infrastructure**

- High quality of service for all user communities
- Independent of short project funding cycles
- Managed in collaboration with National Grid Initiatives (NGIs)

