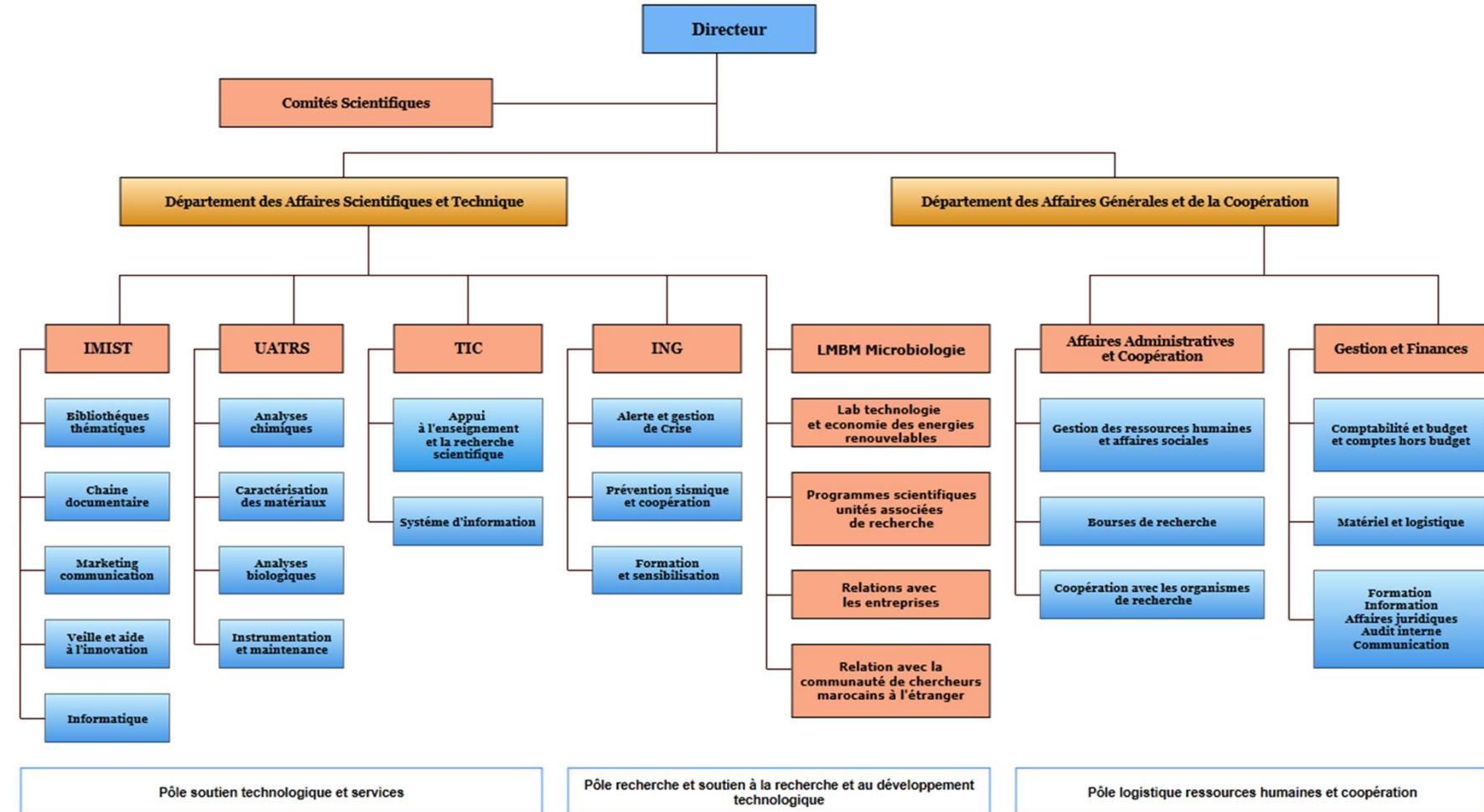




MaGrid as a Support Platform for Scientific Research In Morocco

**Bouchra Rahim
Division TIC – MaGrid
CNRST, Rabat**

National Center for Scientific and Technical Research



Information and Communication Technologies Department

ICT Department

A team of 12 people



Services for Education & Scientific Research



- “ MARWAN network
- “ Eduroam
- “ National Computing Grid, **MaGrid**
- “ Certification Authority, MaGrid CA
- “ Regional Cisco Academy
- “ Trainings on ICT for universities

IT service for CNRST



- “ CNRST IS Development & Administration
- “ CNRST Network Administration & Management
- “ CNRST Staff Trainings

Services managed by the ICT



MaGrid CA

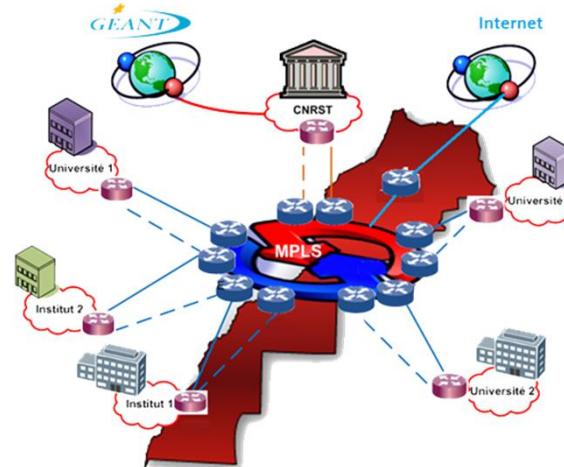
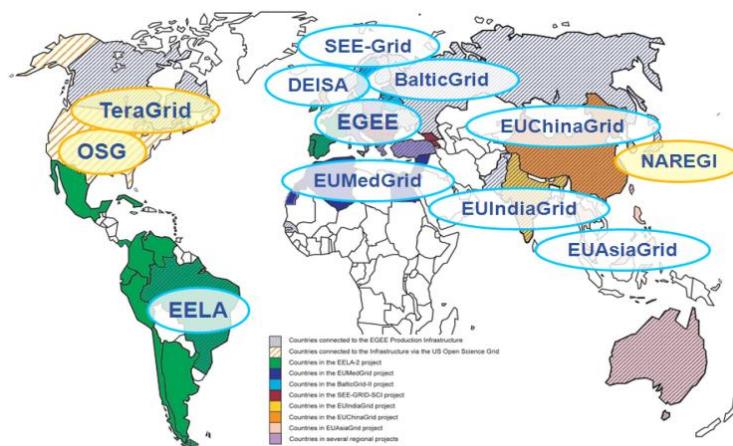


MARWAN CA



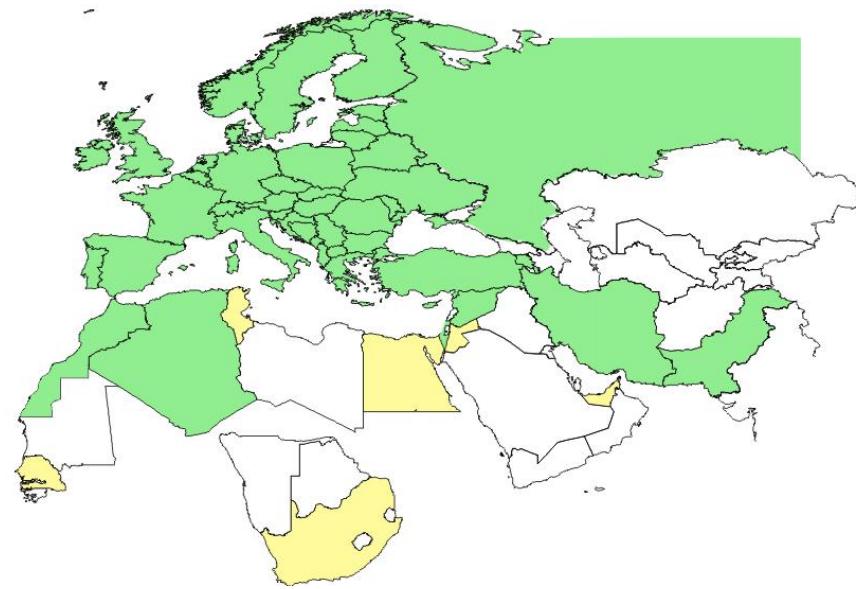
MaGrid

- A commission (national grid expert + potential grid users) has developed a strategy for a **National Grid Initiative** (NGI). MaGrid has been established by the deployment of the first site at CNRST (**MA-01-CNRST**).



- MaGrid is connected to the Euro-Mediterranean grid and the European grid.
- Project involvement : EUMEDGRID Support, EPIKH, HP-UNESCO
- MaGrid uses the Moroccan Academic and Research Wide Area Network.

MaGrid CA



- **MaGrid CA** is installed at CNRST
- Accredited member of EUGridPMA since 2007
(www.eugridpma.org)
- Issues certificates for grid users, hosts and services
(www.magrid.ma/ca)

Users and applications

- Over **70** trained users
- Users affiliations:
 - Chemistry**
 - Bioinformatics**
 - Mathematics**
 - Biomedecine**
 - Meteorology**
 - Material Sciences**
 - NLP**
- **Molpro** (MPI)
- **DOCK6** (MPI)
- **GROMACS** (MPI)
- **WRF-EMS** (MPI)
- **Freefem++** (MPI)
- **GEANT4/GATE/ROOT**
- **Octave/Scilab**
- **Intel Compilers**

magrid VO is dedicated to national researchers

User support actions

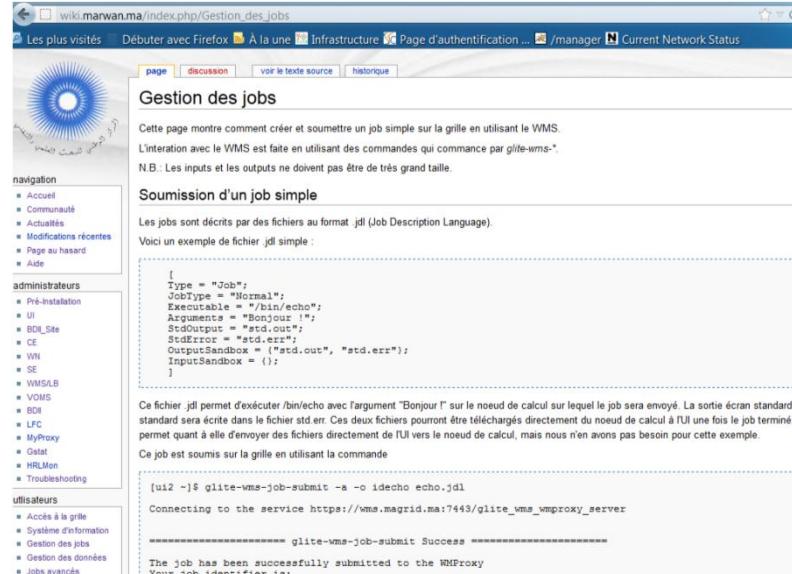
- Trainings for new grid users
- Participation to the national and international events involving scientific computing
- Supervising and providing support courses for university students
- Participation to research programs
- Software installations and tests

wiki.marwan.ma

Site support actions

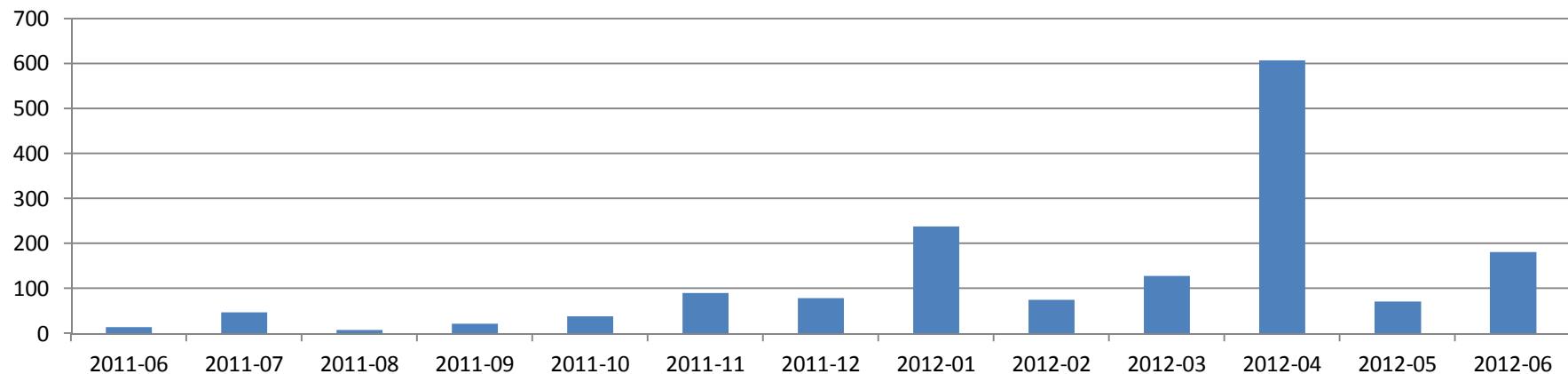
- Trainings for new site administrators
- Sites maintenance and troubleshooting
- Supporting emerging grid sites
- Hosting grid events

wiki.marwan.ma

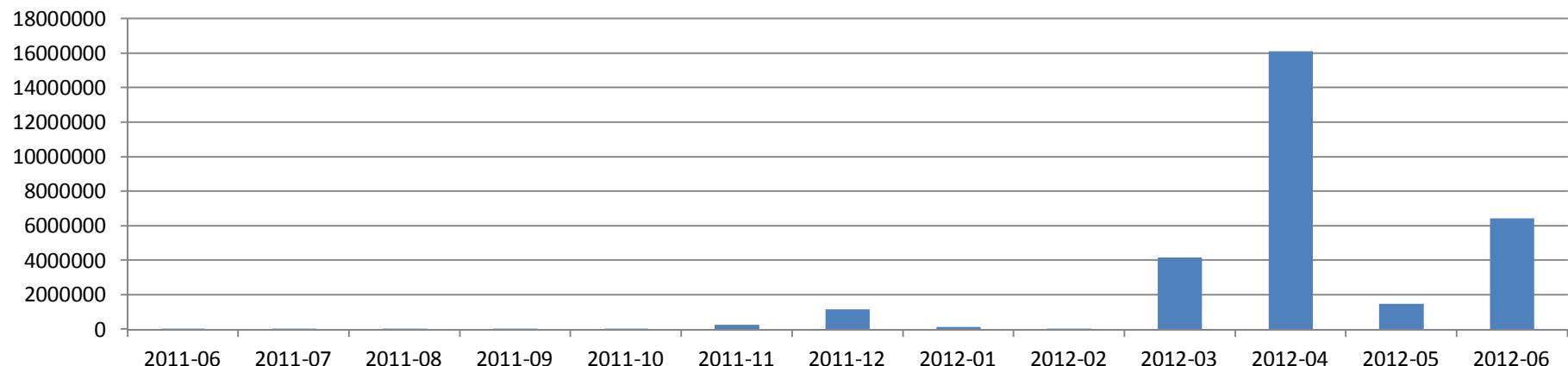


Job statistics (magrid VO)

Number of jobs



CPU time (s)





Thank You !