

Production Demonstrations: Introduction

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INFSO-RI-508833



Part 1

Grid Production Service Operations

 What does it mean to operate a Production Grid of more than 100 sites

Part 2

Demonstration of 3 real Grid applications from different disciplines



Grid Production Service Operations

Enabling Grids for E-sciencE

- A day in the life of a Grid operator
- Hélène Cordier (IN2P3)
- Piotr Nyczyk (CERN)
- Simple but powerful process for
 - Monitoring
 - Troubleshooting
 - Resolution
 - Knowledge gathering

Grid Production Serv. Ops Highlights

Enabling Grids for E-sciencE



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GIIS Monitor

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GOC Data Base



GridIce – VO view

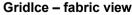


GIIS Monitor graphs

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Scheduled Downtimes







Sites Functional Tests



Live Job Monitor



Certificate Lifetime Monitor



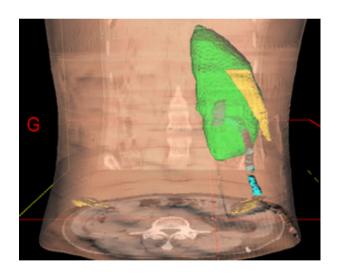
Application Demos

- 3 different disciplines:
 - gPTM3D
 - Cecile Germain-Renaud and Romain Texier
 - CNRS
 - Radiological data interactive segmentation and analysis
 - EGEODE
 - Dominique Thomas and Gaël Youinou
 - Compagnie Générale de Géophysique
 - Geophysics commercial application
 - GEMS
 - Antonio Laganà and Osvaldo Gervasi
 - University of Perugia
 - Molecular Simulator (Chemistry)



gPTM3D Highlights

Reconstruction in 3D of specific organ







EGEODE Highlights

Enabling Grids for E-sciencE



GEMS Highlights

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Commonalities between Applications

• Setup

CG

- All applications integrated with LCG-2 middleware

Enabling Grids for E-sciencE

- 3 demos running from a laptop accessing the Grid
 - gPTM3D: Directly (running on Production Service)
 - GEMS: Through GENIUS Portal (running on GILDA)
 - EGEODE: Idem
- They show different stages of deployment: from GILDA to the Production Service
- Common issues
 - Interactive jobs
 - Commercial license issues
 - Outbound connectivity





Show Time!!