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Production Demonstrations: Introduction

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EGEE 1st EU Review

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www.eu-egee.org

Information Society

Enabling Grids for E-sciencE

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**

- **A taste in the life of a Grid operator**

- **Hélène Cordier (IN2P3)**

- **Piotr Nyczyk (CERN)**

- **Fundamental Processes for**

  - Monitoring

  - Troubleshooting

  - Resolution

  - Knowledge gathering

GIIS Monitor
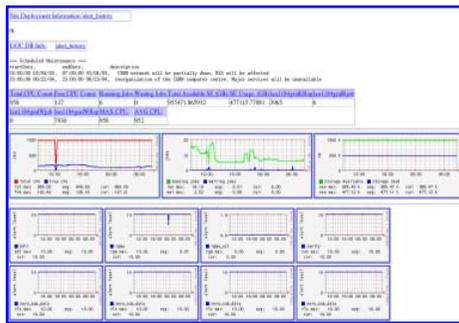
GIIS Monitor graphs
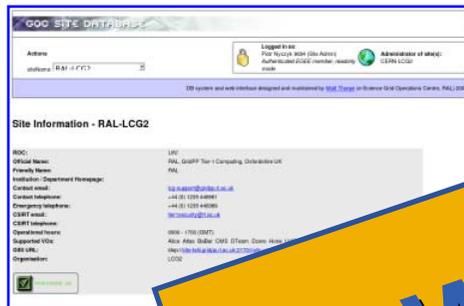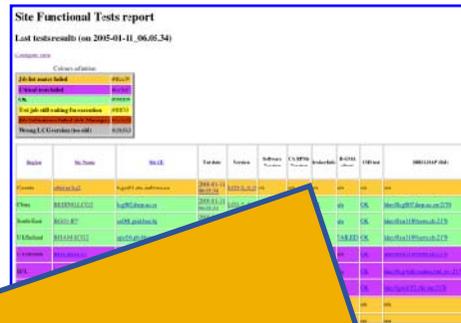
WITH A PROCESS

Scheduled Downtimes
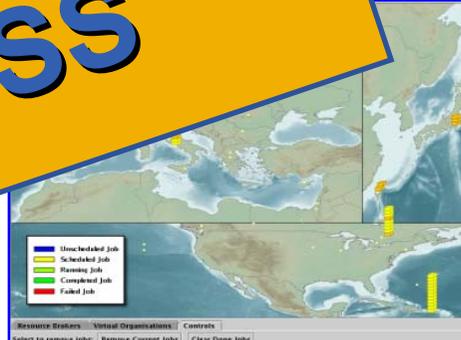
Live Job Monitor

GridIce – VO view

GridIce – fabric view
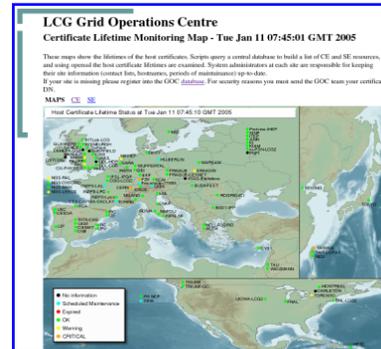
Certificate Lifetime Monitor

Enabling Grids for E-sciencE

- **GEMS**
  - Antonio Laganà and Osvaldo Gervasi
  - University of Perugia
  - Molecular Simulator (Computational Chemistry)

- **EGEODE**
  - Dominique Thomas and Gaël Youinou
  - Compagnie Générale de Géophysique
  - Geophysics Application (Earth Science)

- **gPTM3D**
  - Cecile Germain-Renaud and Romain Texier
  - CNRS / LRI
 - Radiology Images Analysis (Biomedical / Medical Imaging)

- **9 Applications from many domains (HEP, Biomed and other) were demonstrated in Den Haag**

- **3 were selected Application Demonstrations selected based on following main criterion**

  - Scientific importance

  - Is the added value of the grid obvious?

 - Visual impact

  - Maturity

  - Demonstrability

Angular distribution: H+ICl–>Cl+HI
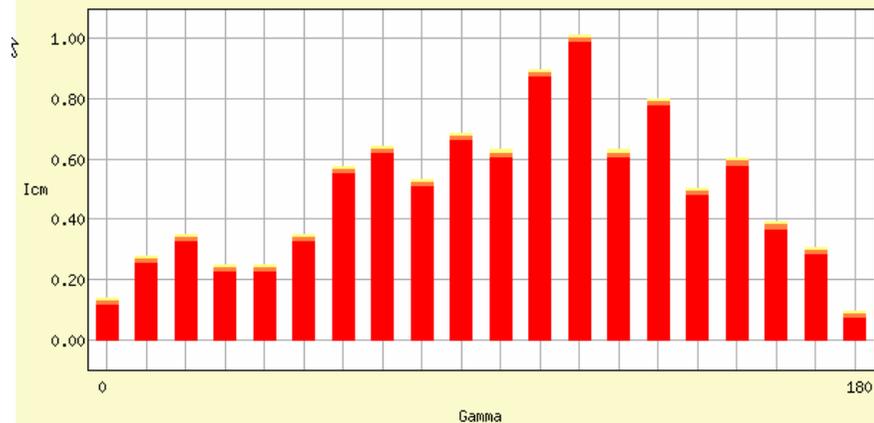
Angular distribution: H + ICl –> H + ICl

Angular distribution: H+ICl–>I+HCl

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Enabling Grids for E-sciencE
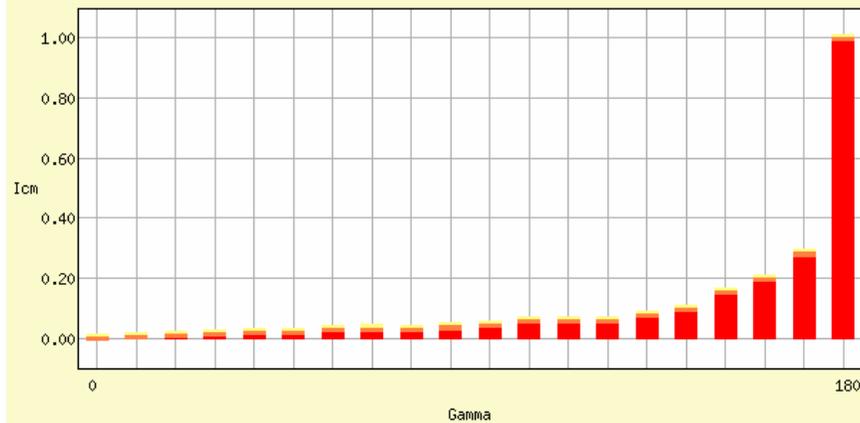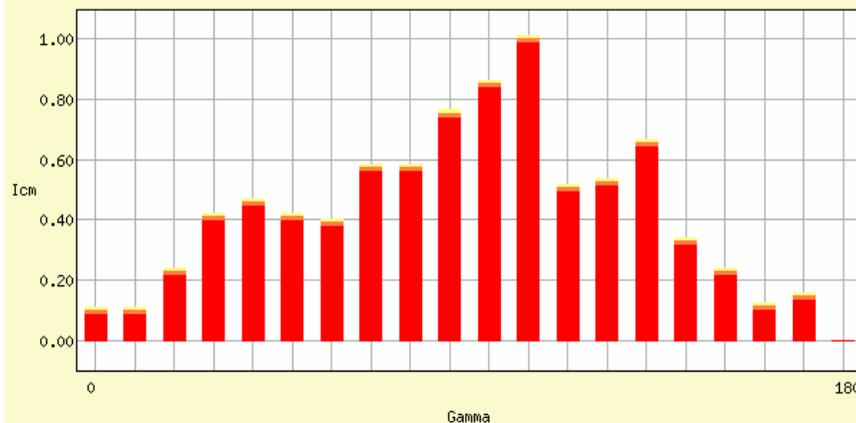
- **From 1D data to 2D and 3D added value products**
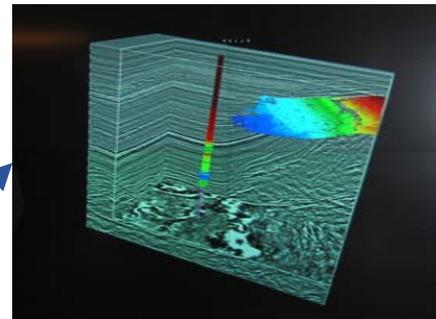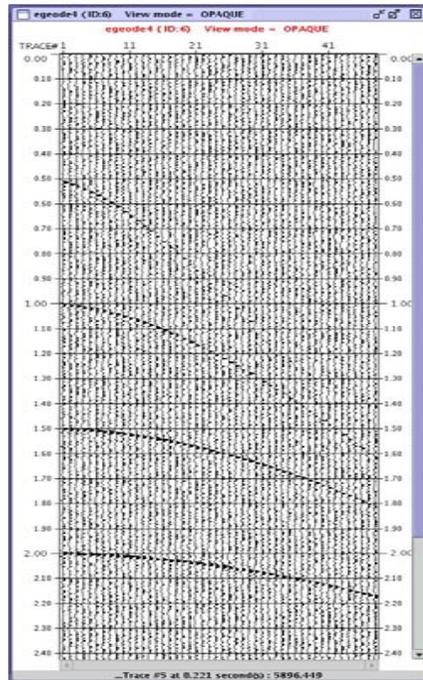
3D seismic
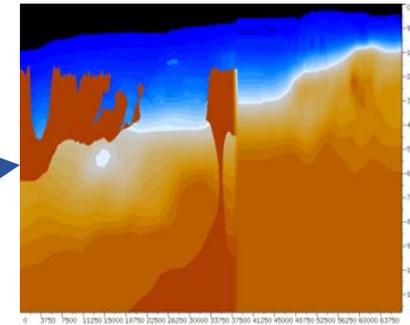
Velocity model
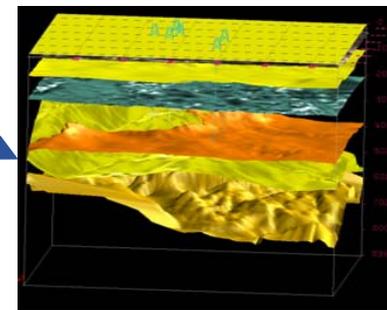
Structural model

- **Reconstruction in 3D of specific organ**
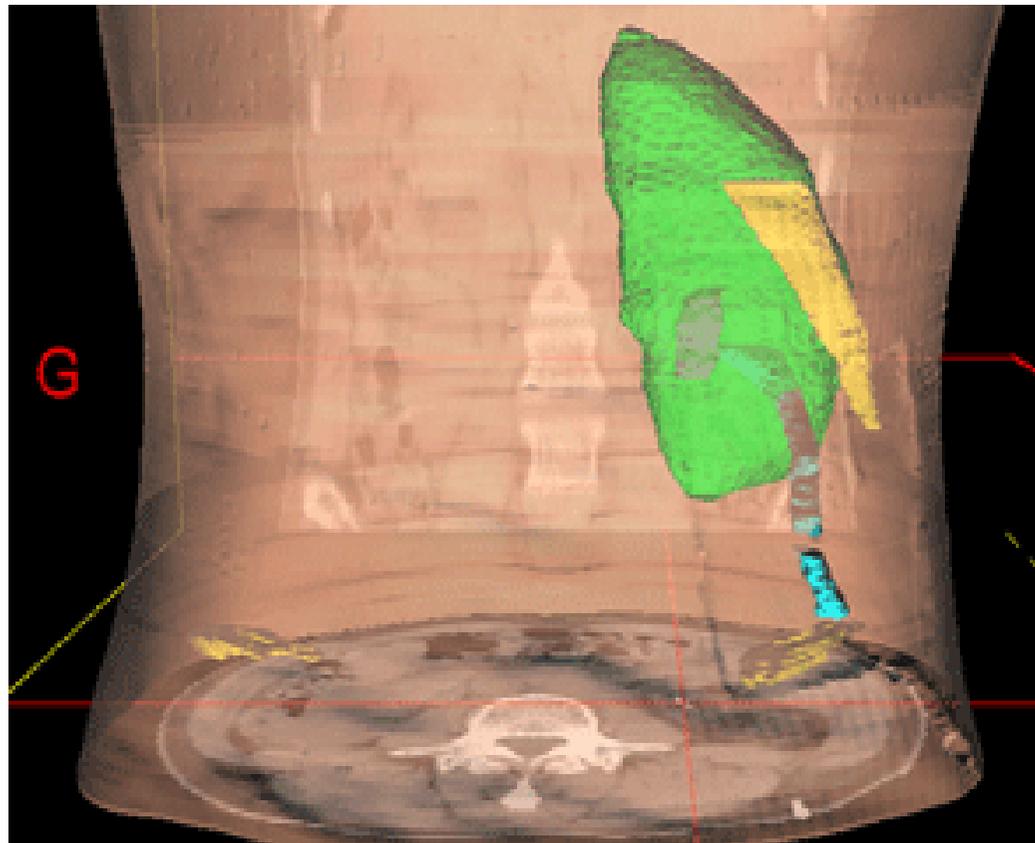
- **Setup**
  - All applications integrated with LCG-2 middleware
  - 3 demos running from a laptop accessing the Grid
    - GEMS: Through GENIUS Portal (running on GILDA)
    - EGEODE: Idem
    - gPTM3D: Directly (running on Production Service)
- **They show different stages of deployment: from GILDA to the Production Service**
- **Common issues**
  - Interactive jobs
  - Commercial license issues
  - Outbound connectivity
  - Web Portals

Show Time!!