



## BE18 – Seismic Processing and Reservoir Simulation

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PetroSoft



## Overview of the BE

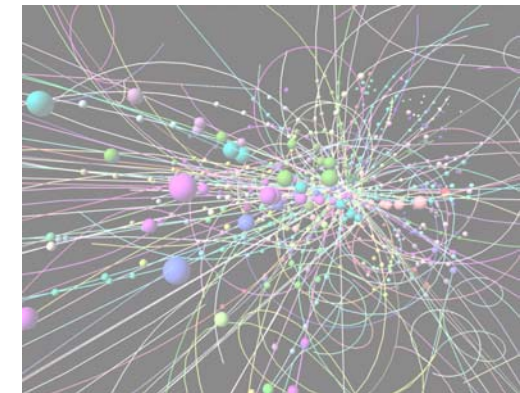
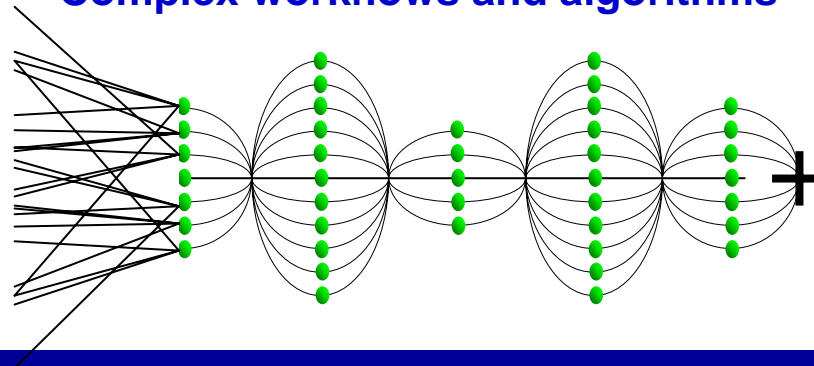
# « Expanding Geosciences On Demand »

EGEODE is a virtual Organization opened to Research Centers in geophysics and other geosciences from both Industrial (public-private) and Academic world, thanks to **eGee**

Geophysics and Reservoir Simulation are key technologies for Oil&Gas.

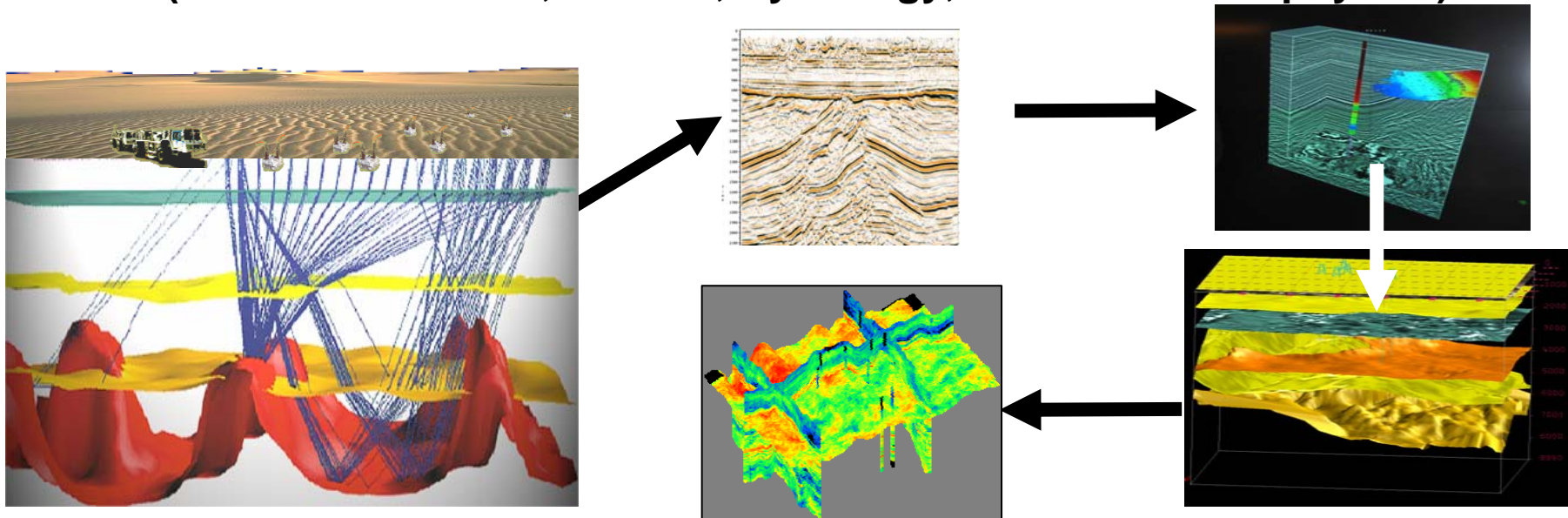


Complex workflows and algorithms



# Overview of Applications

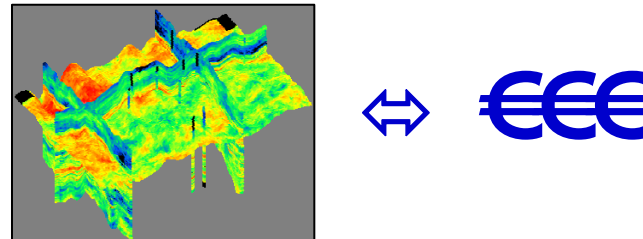
- **Geocluster, the *seismic processing* generic platform from CGG**
  - The main initial focus of EGEODE Virtual Organization
  - Free access for Academic research
- **Reservoir Simulation from TNO**
- **gLite Grid middleware**
- **Close collaboration with DEGREE and « Earth Sciences Research » VO (Earth Observation, Climate, Hydrology, Solid Earth Geophysics)**



# Main Objectives and Challenges

The aim of the experiment within BEINGRID framework is

- 1 - to validate the technical viability of geosciences processing on the grid by consolidating EGEODE applications and packaging, and**
- 2 - to validate the economic viability by creating a model for economics suitable for EGEODE Virtual Organization.**



With added values:

- ❖ **Capability to solve complex problems and to validate innovative algorithms on real size data sets**
- ❖ **Close the gap between Research and Industrial environment**
- ❖ **Attract and keep brightest researchers**
- ❖ **Framework for Industry/Research collaboration**

## BE18-Grid

- **Infrastructure**

- Independent from the EGEE preproduction network
- Provided by service providers of the BE  
*Each partner will become one RC*

- **gLite**

- Using and validating gLite outside the general EGEE infrastructure
- Assess the software in a different context

