

Visualisation in Engineering

Marcelo Gattass
Tecgraf
PUC-RIO

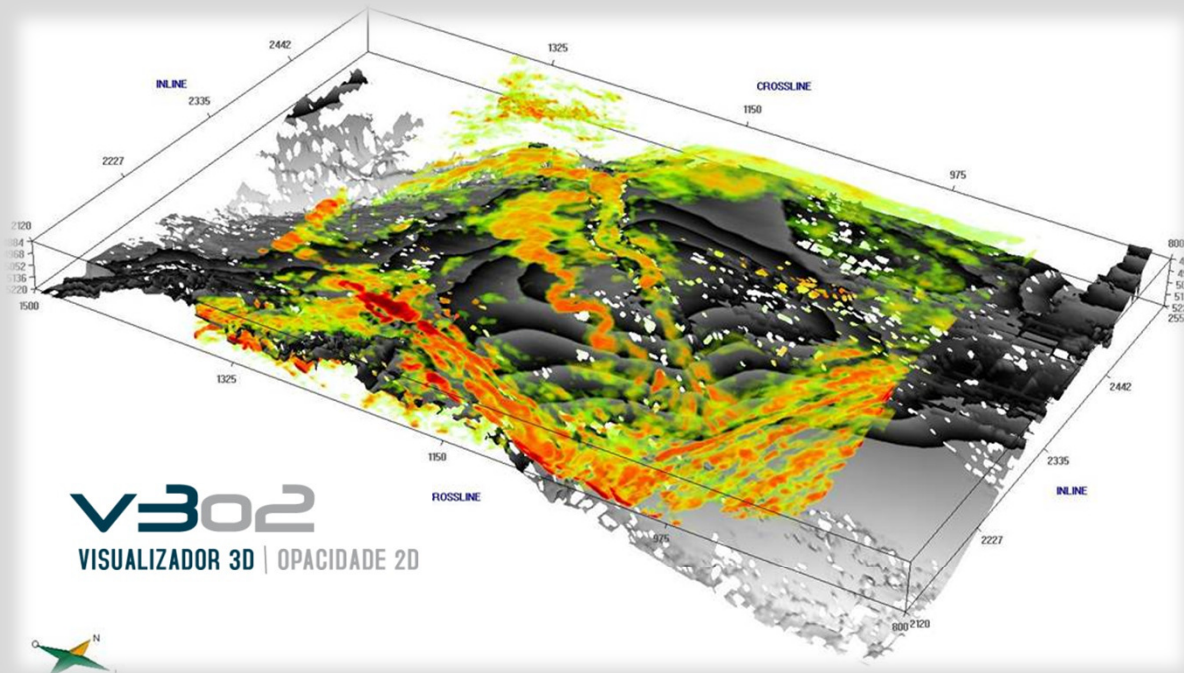




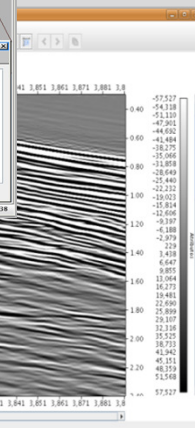
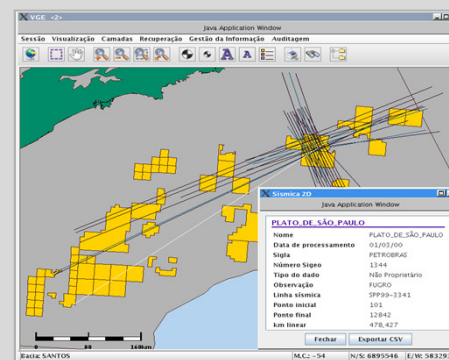
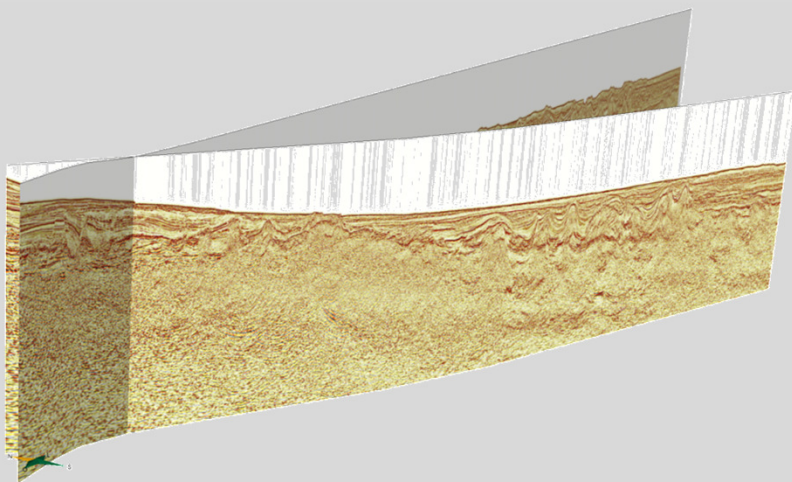
1. Geophysics
2. Geology and Sedimentology
3. Geomechanics
4. Reservoirs
5. Offshore Production Systems
6. Plan Design Systems
7. Logistics and Transportation
8. Safety and Environment
9. Automation and Control
10. Augmented Reality and Immersive Visualization

“from the reservoir to the pump”

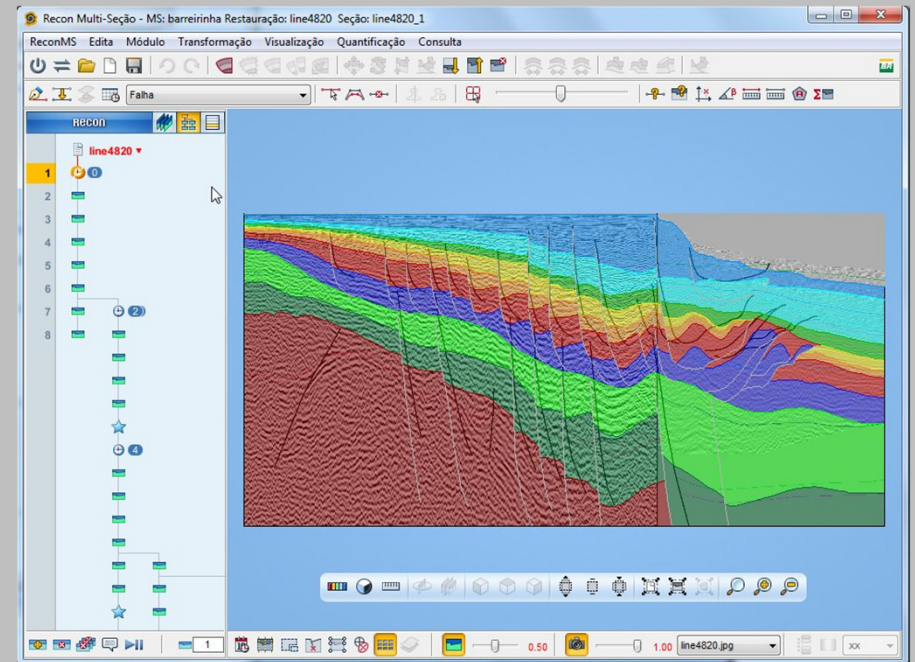
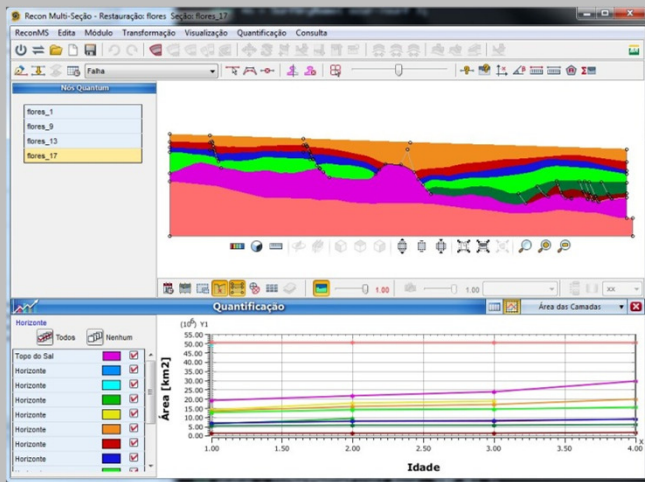
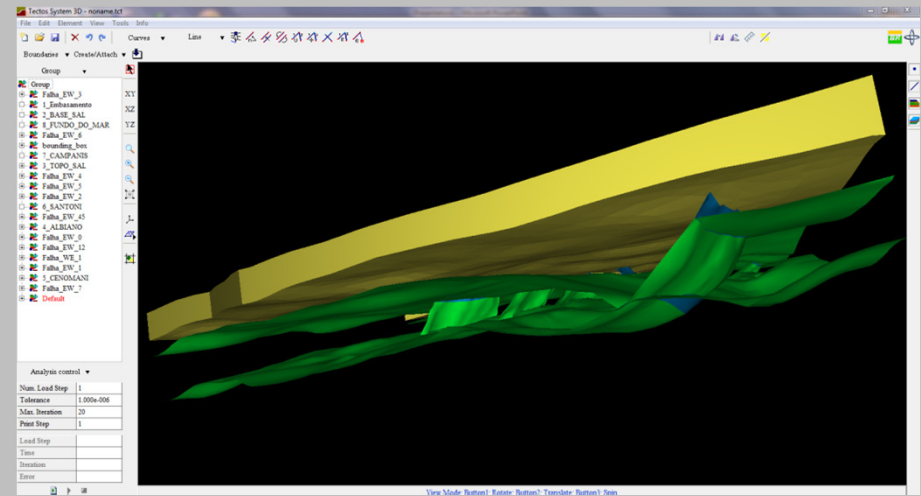
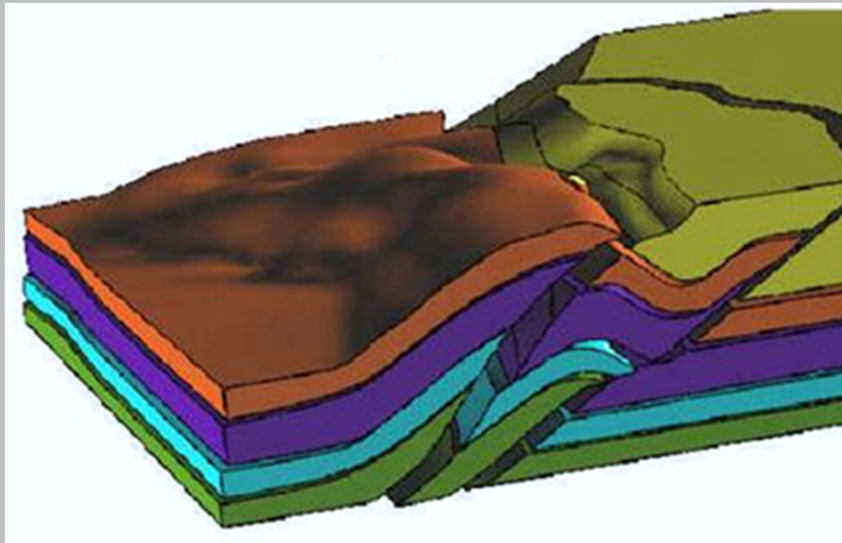
Geophysics



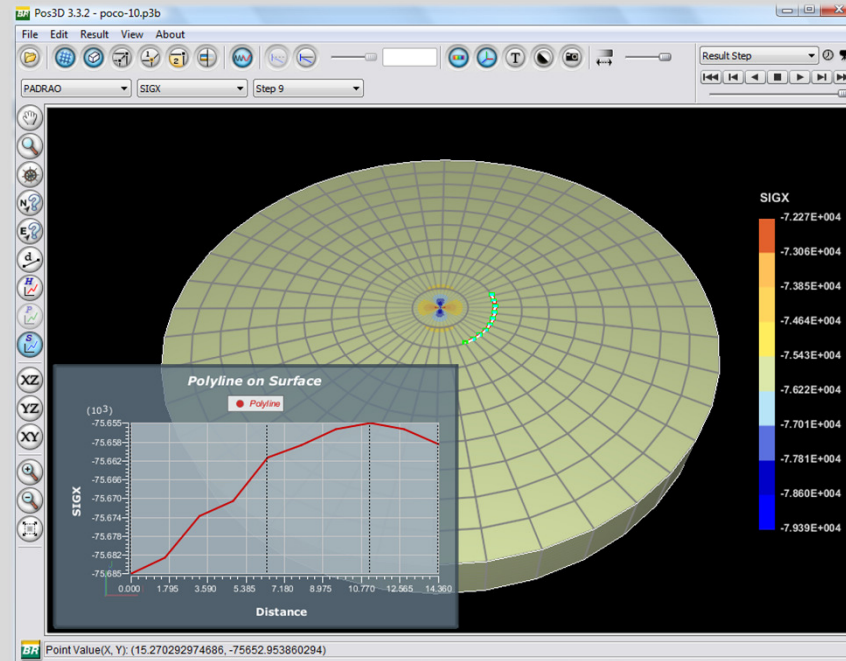
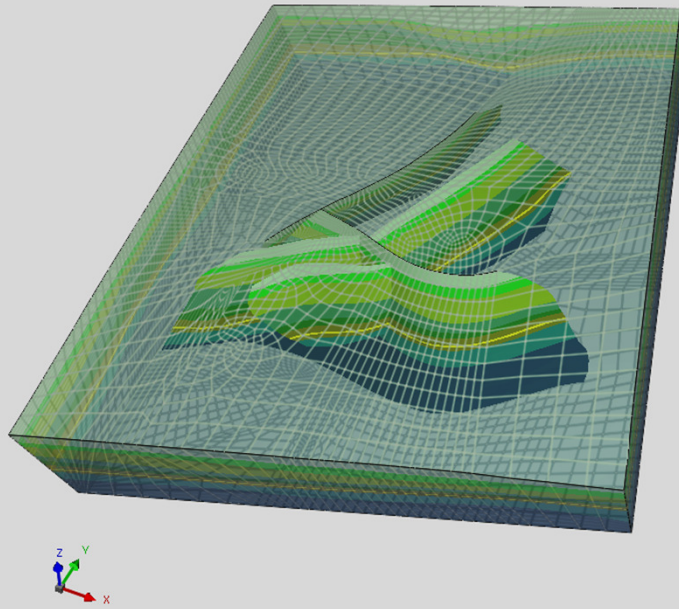
v302
VISUALIZADOR 3D | OPACIDADE 2D



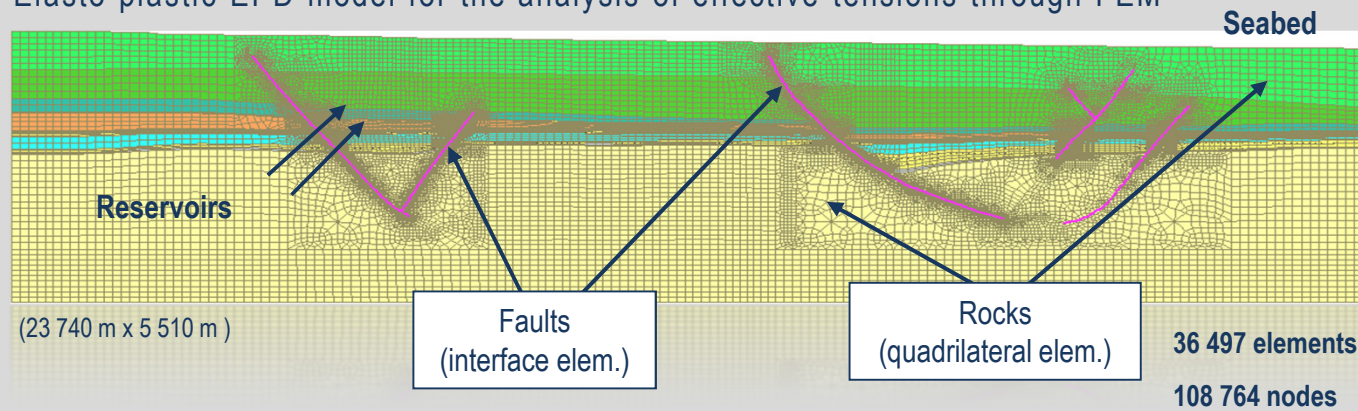
Geology and Sedimentology



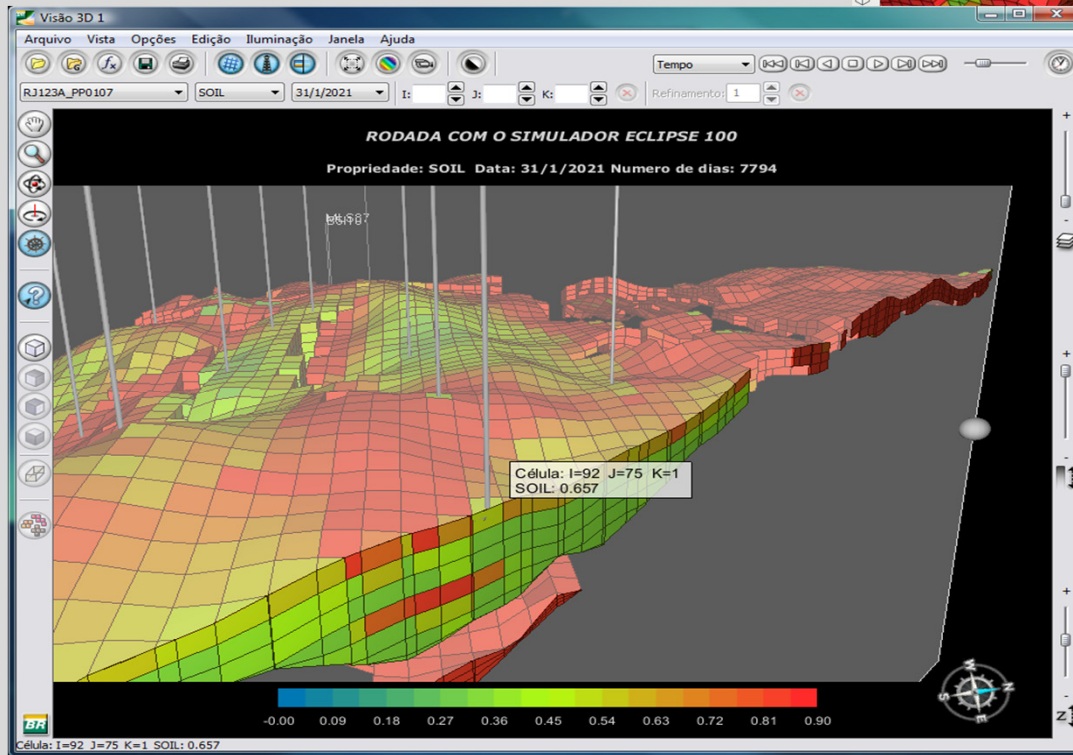
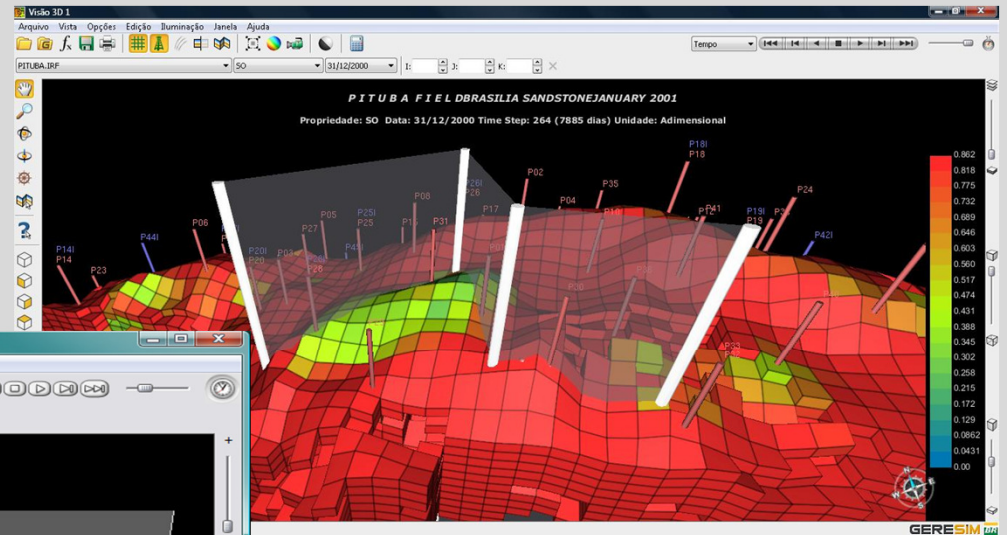
Geomechanics



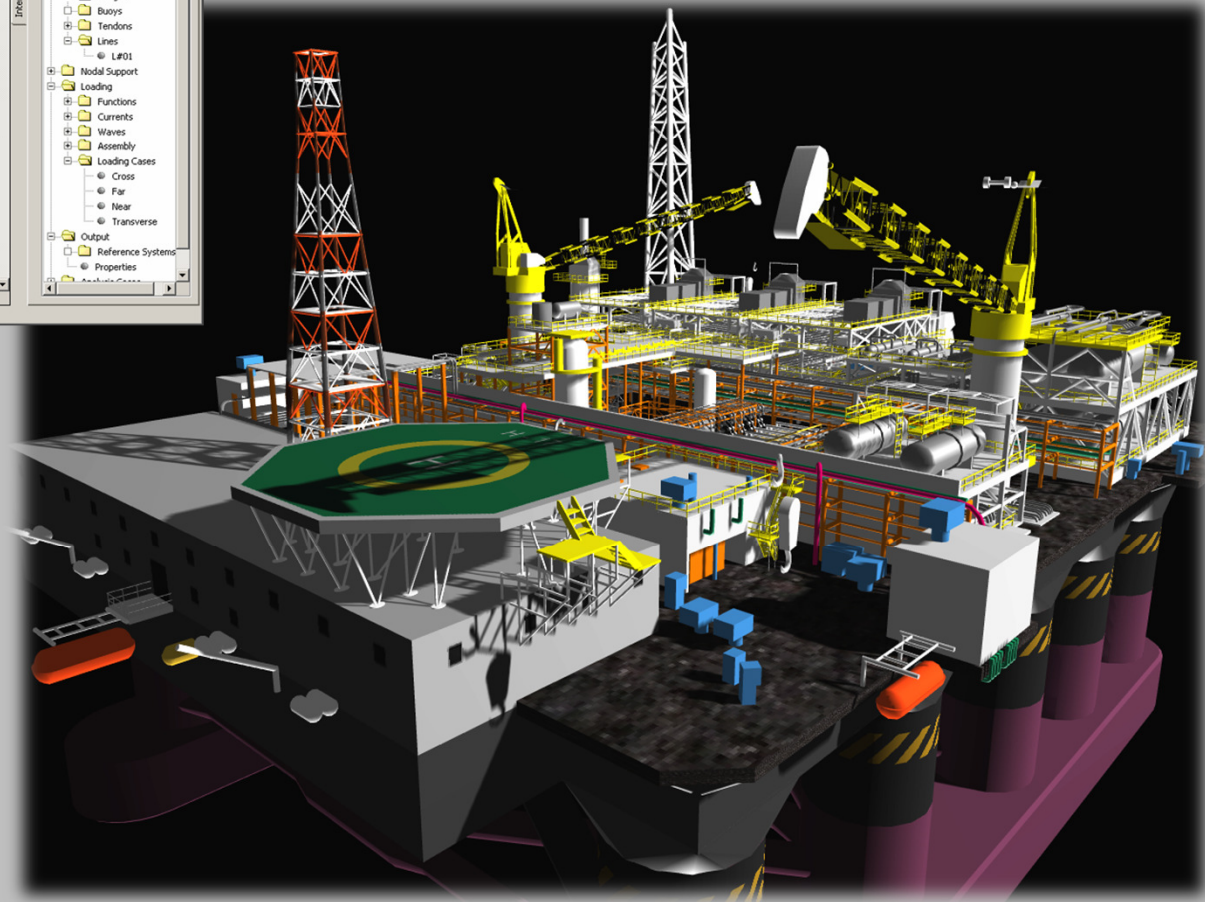
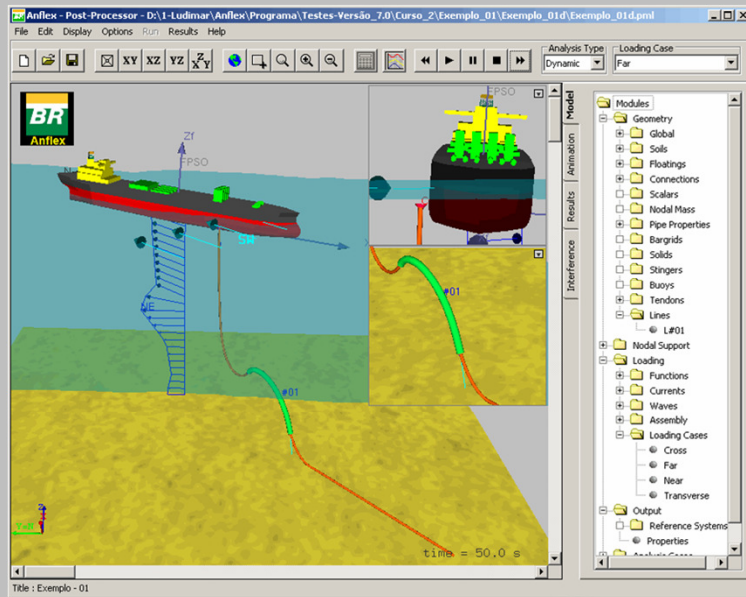
Elasto-plastic EPD model for the analysis of effective tensions through FEM



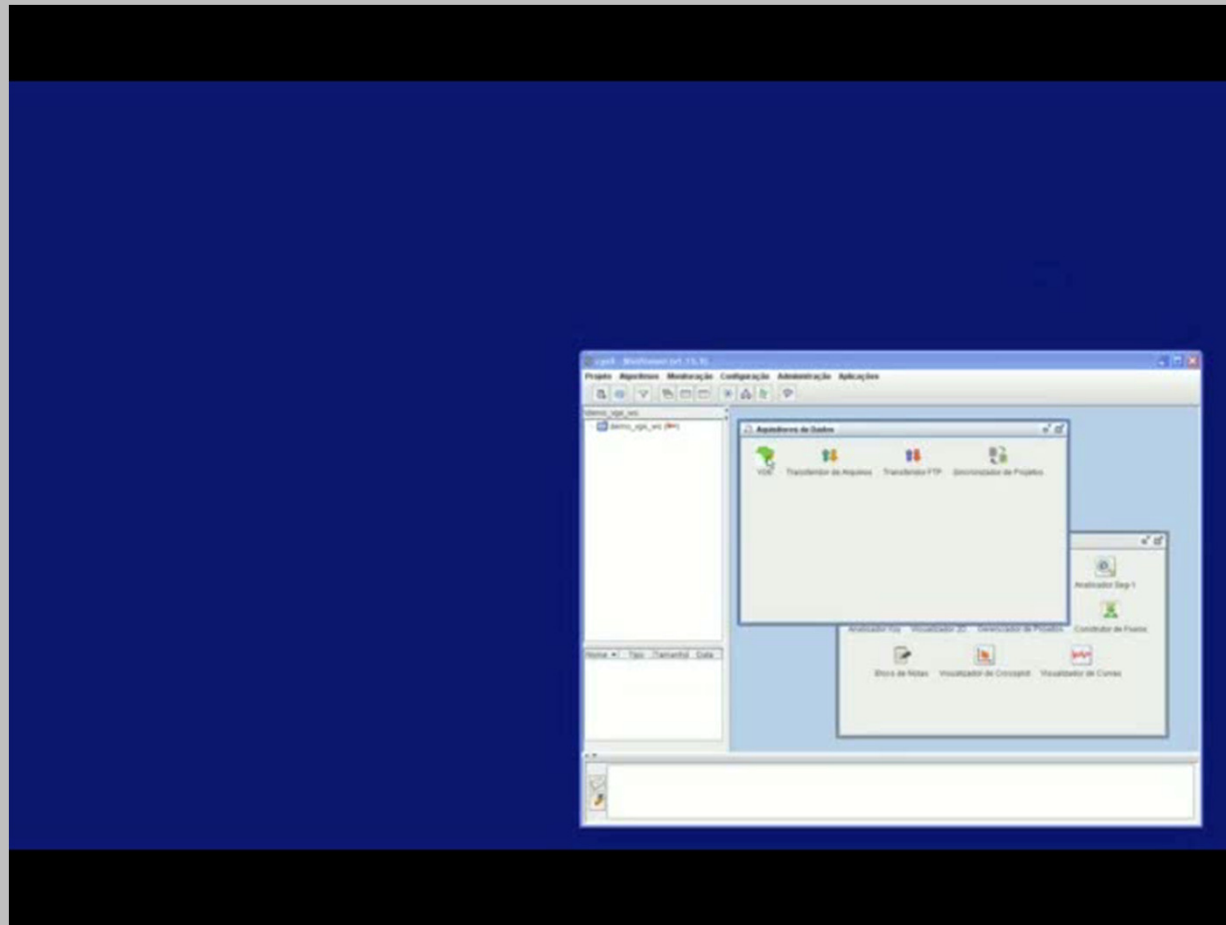
Reservoirs



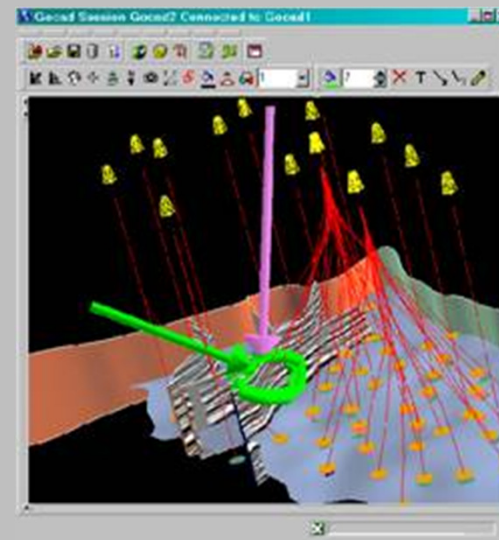
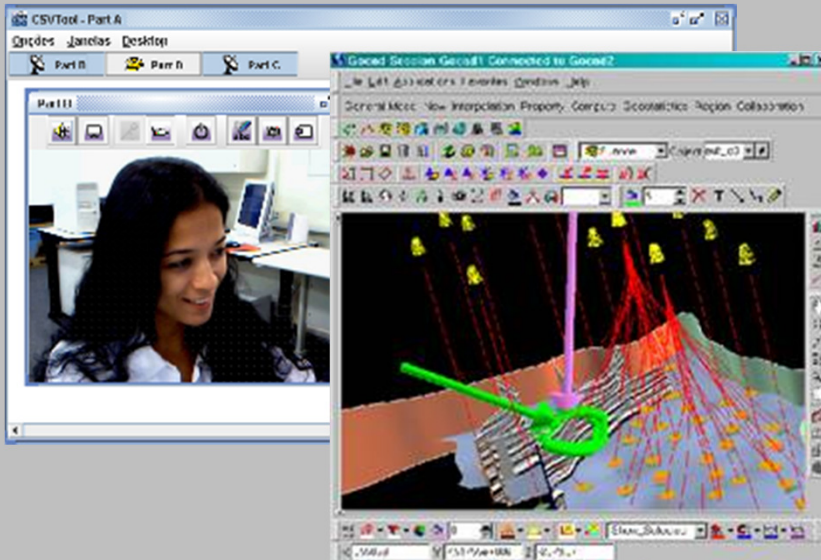
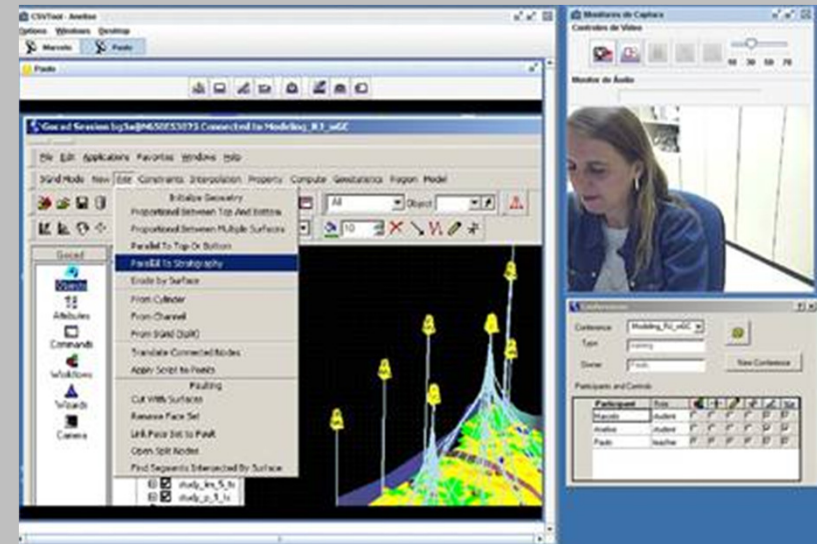
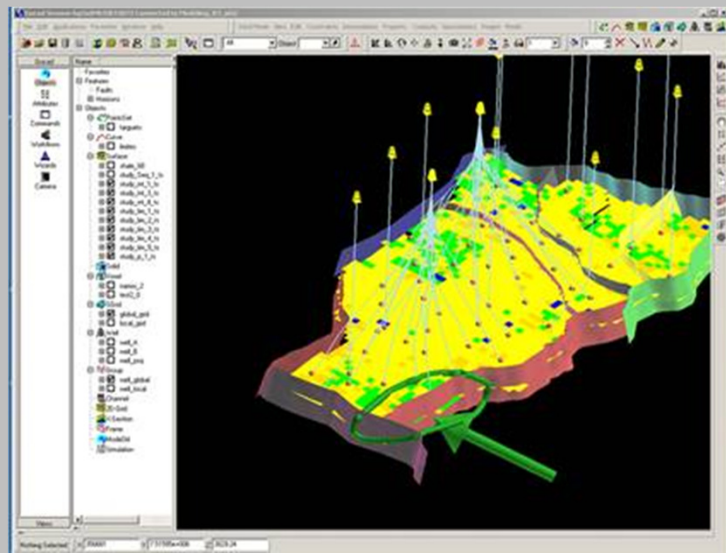
Offshore Production Systems



Geological Modeling with Remote Collaboration



Geological Modeling with Remote Collaboration



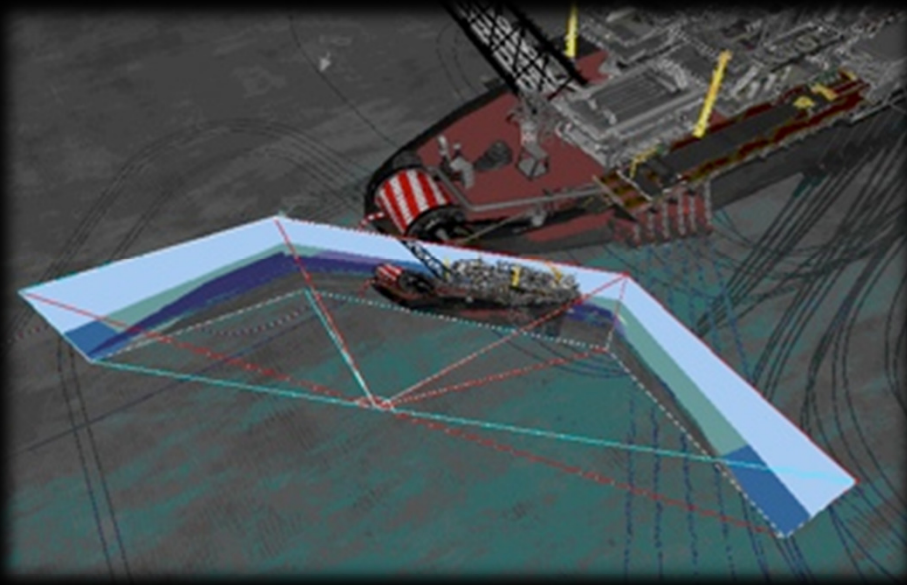
New WIMP in 3D



Navigation in Virtual Environment



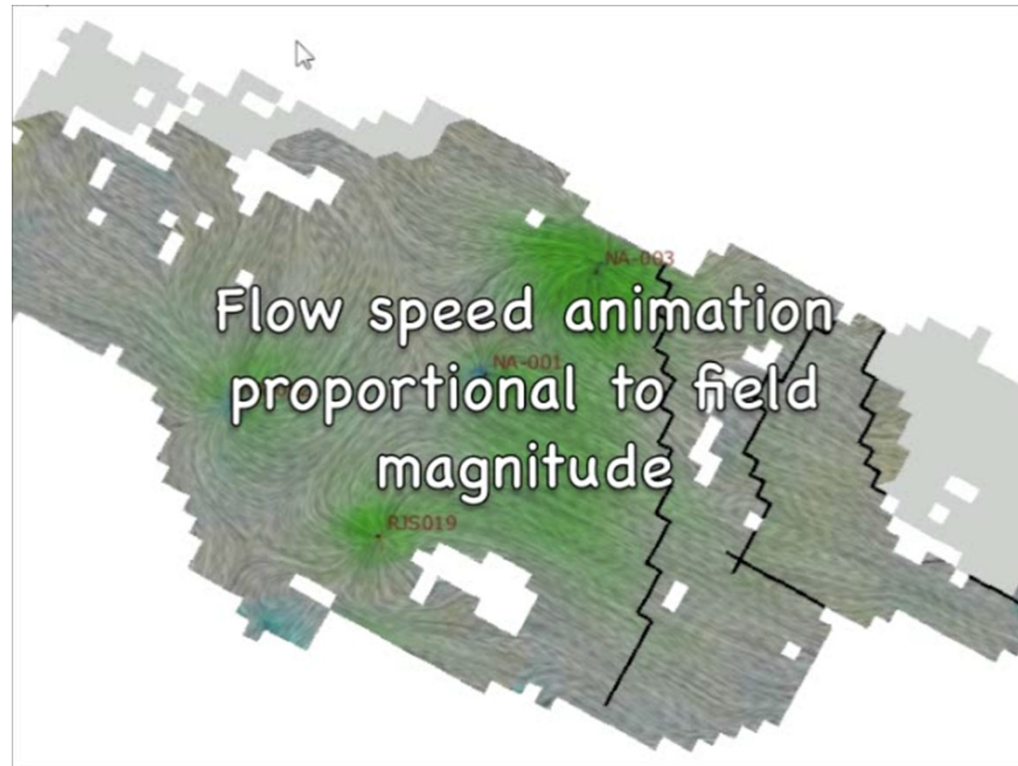
Immersive Visualization



Cave Visualization



Real Time Visualization





A wide-angle photograph of a busy university hallway. The hallway is lined with tall, light-colored stone columns. A large, colorful banner hangs from the ceiling on the left side. The floor is polished and reflects the overhead lights. Many students are walking, talking, and sitting on the floor. Some are carrying backpacks. The overall atmosphere is one of a busy, active campus.

The end

Contact



Prof. Marcelo Gattass

Tecgraf, Departamento de Informatica, PUC-Rio

Rua Marques de São Vicente 225, sala 516RDC

22.453-900 Rio de Janeiro, Brasil

ph: +55(21)2512 5984 ext: 213

fax: +55(21)3527 1848

url: www.tecgraf.puc-rio.br/~mgattass