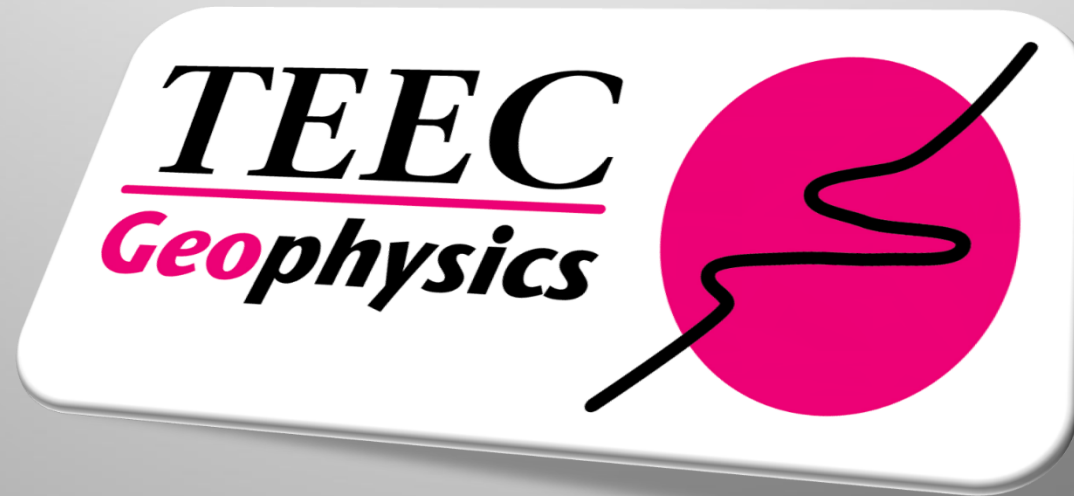
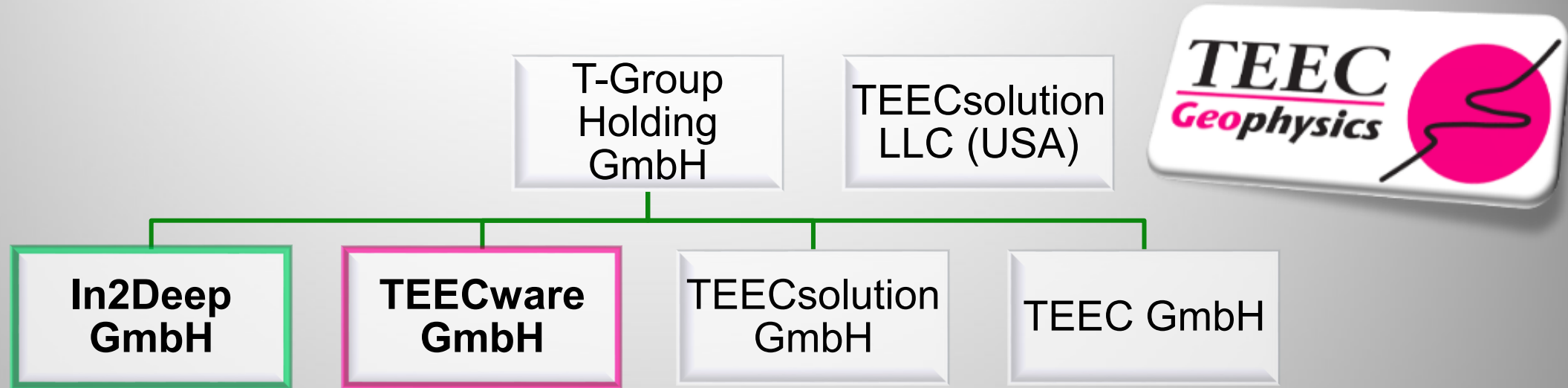


TEEC Company Presentation

September 2021



TEEC & T-Group Holding

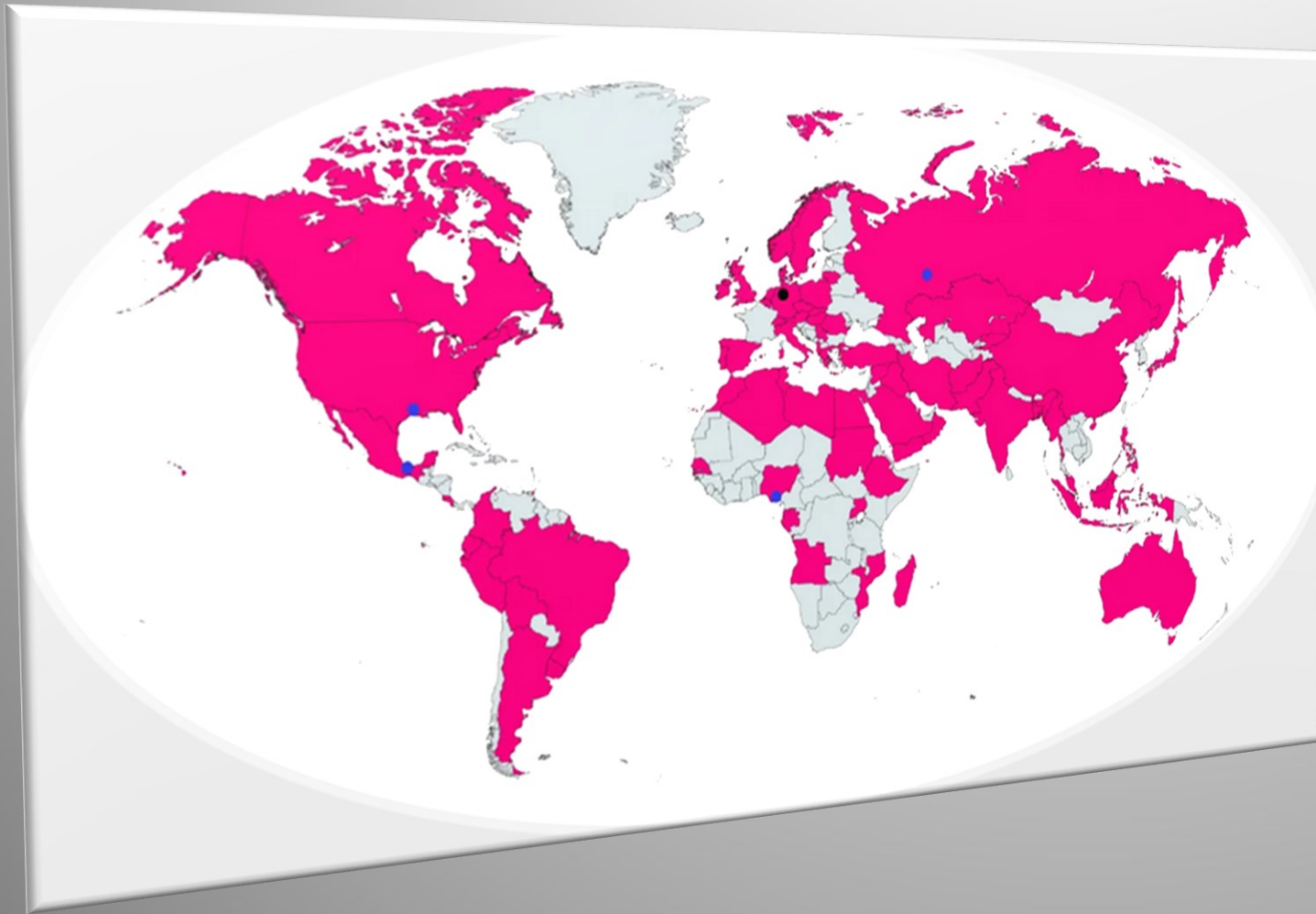


- ✓ 30 years of experience with cluster computing & AI
- ✓ Experts team R&D and code implementation
- ✓ Individual solution provider - seismic service and beyond

TEEC



TEEC: worldwide operation



- Head office
- Offices & local partner
- ▢ Activities of TEEC

TEEC service portfolio



Over 25 years of experience.

Seismic Processing

- Worldwide experience
- Standard processing
- Special Processing with in-house proprietary software
- Market leader in CRS Processing

Software Development

- 1st Class software development
Denoising toolbox,
CRS, RTM,
FWI, FWM ...
- Close cooperation with universities and research consortia.

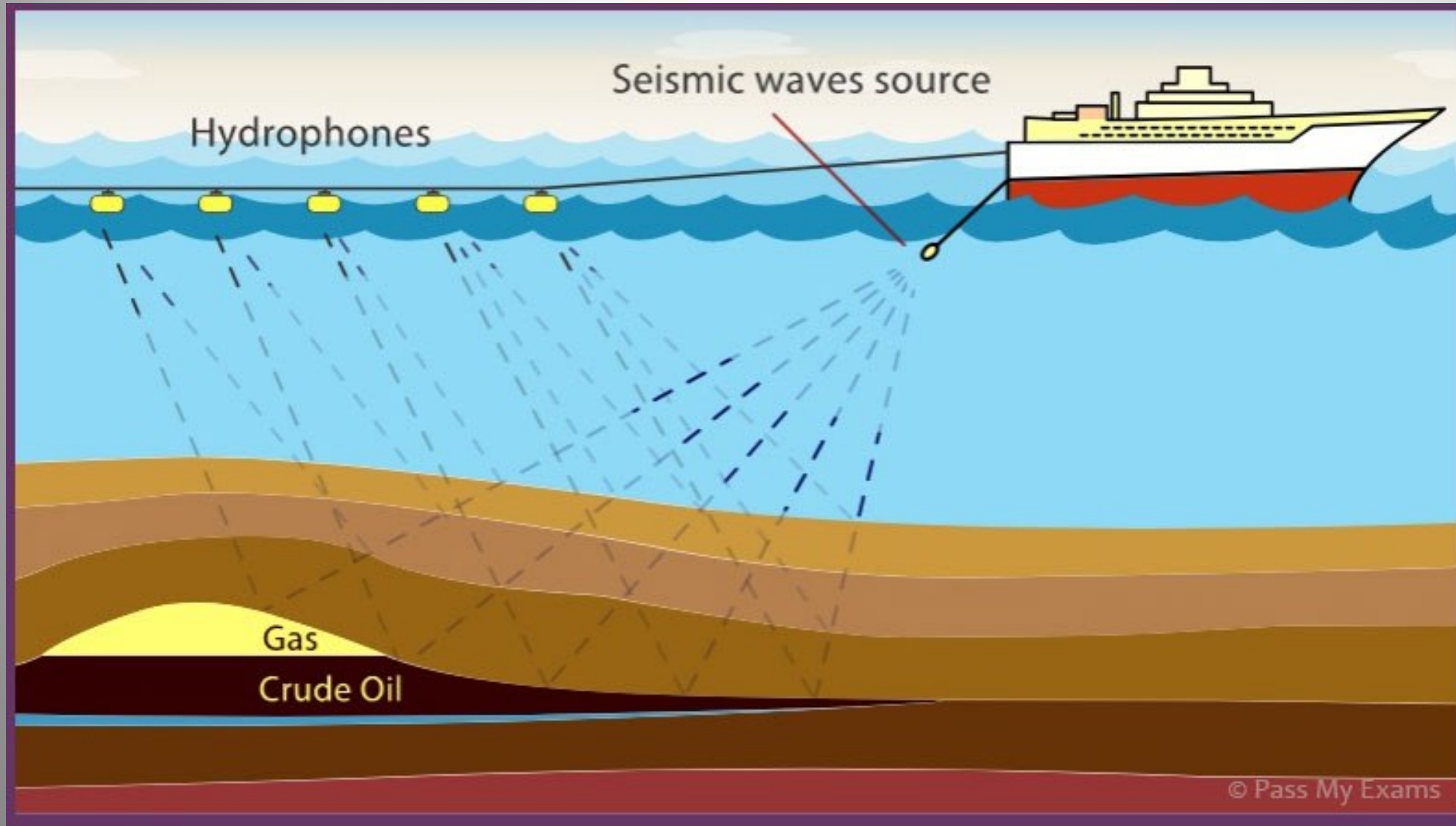
Reservoir Characterization

- Proprietary software Package
- AVO Analysis
- Coherency Processing
- Facies Classification and Fault Detection

Unique technology – one step ahead of the main stream service => R&D

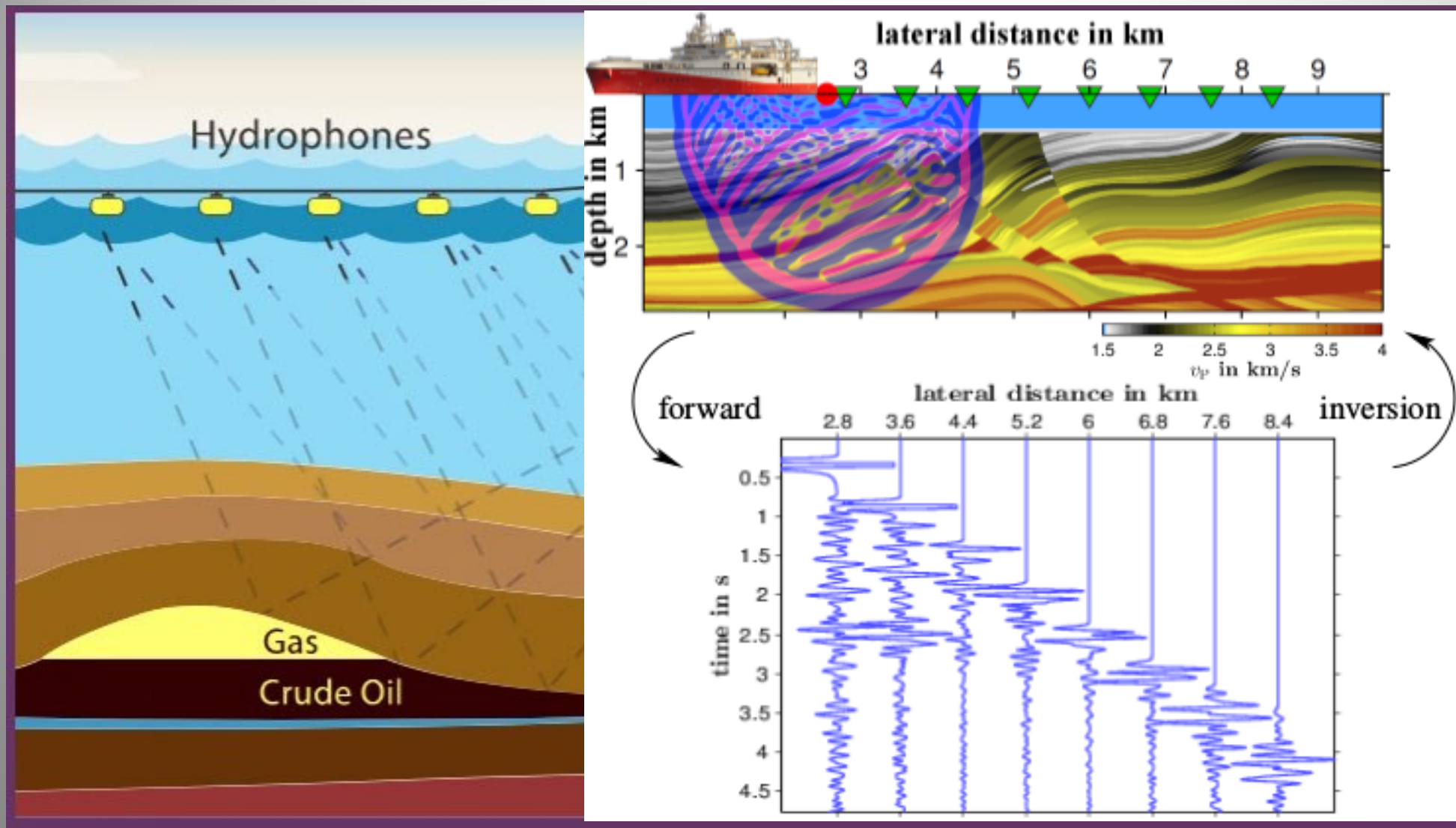


TEEC seismic service: What we do !

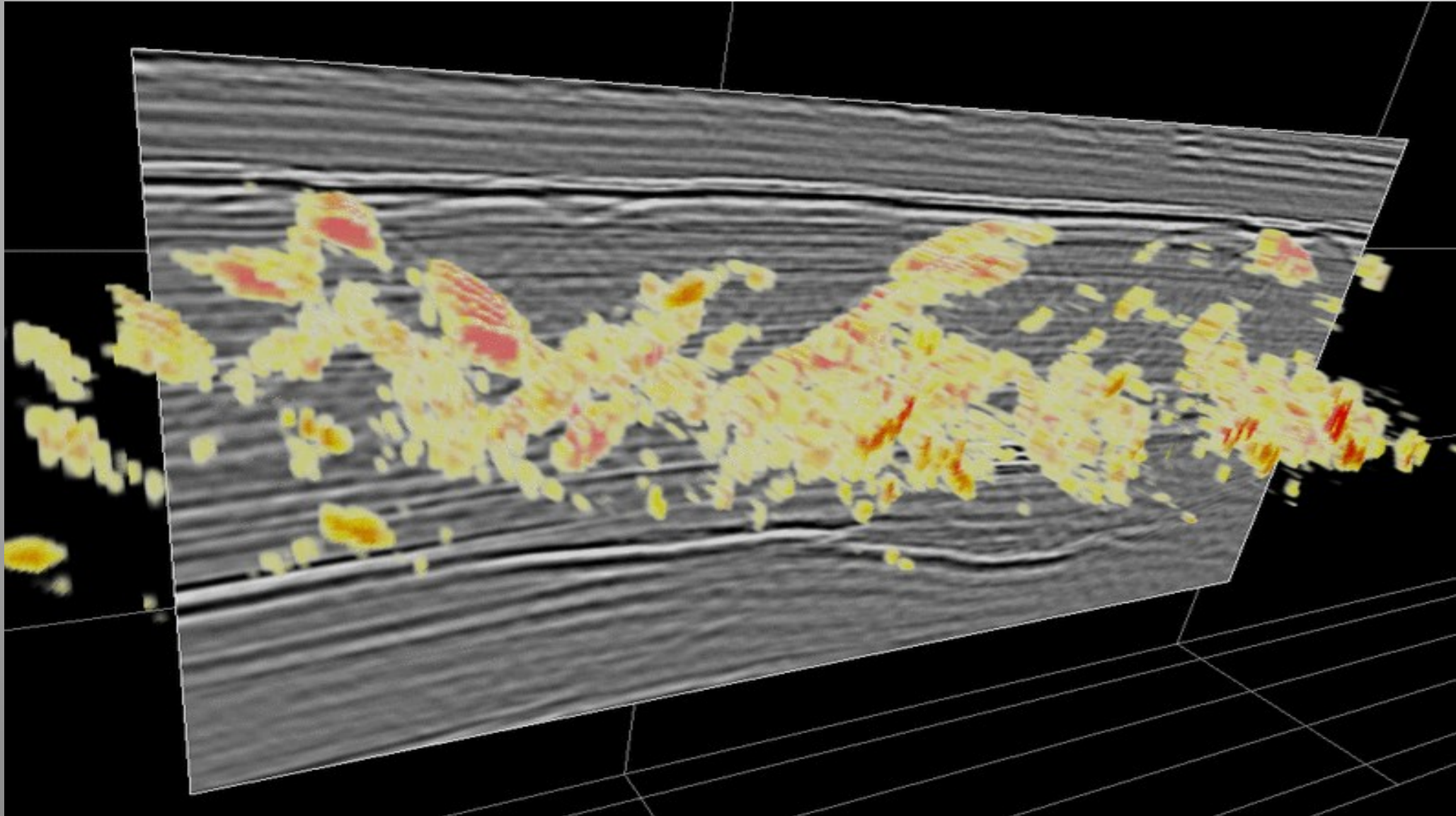


<http://www.passmyexams.co.uk/GCSE/chemistry/finding-crude-oil.html>

TEEC seismic service: What we do !



Separate Diffractions



Computational demands

❖ **Computational efforts:**

- Simulations (Finite Difference modelling, Frequency domain modelling)
 - Inversion processes
 - Simultaneous optimisation in 8D – parameter space of 3D volumes.
 - Cross-correlation of simulations of large data volumes
- computational demanding tasks -> HPC environment

❖ **Large data volumes**

- conventional seismic 3D survey provides hundreds GB or TB scale input data.

Large data + large computational effort => “Many task” computing problems.

In-house development of efficient **many-task computing** facilities on arbitrary hardware (CPU/GPU heterogenous clusters, HPC systems).

Efficient computation of large data volumes is the key to success.

=> POP service very useful

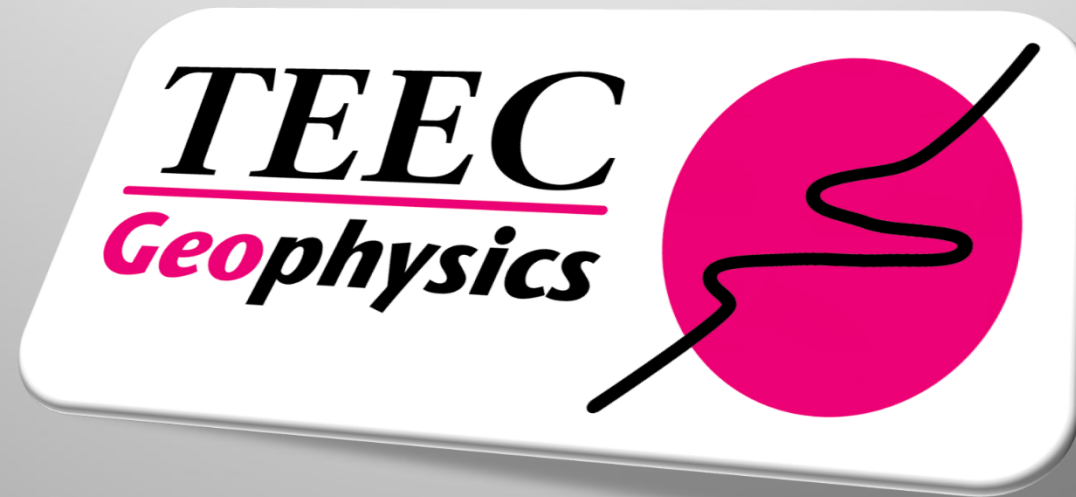
POP experience

Software code from research consortia
in house adaption at TEEC

- scaling of code is already in very good shape for HPC systems.
- currently testing for heterogenous systems.

- ❖ So far, no gain in performance, but in confidence !
- ❖ Learning new tools, that make code optimisation easier

Thank You !



Unique solution provider !