

OpendTect

“User friendly, superb support, improved reservoir imaging: mitigated drilling and production risk.”

Dr. Rainer Tonn, Statoil

OpendTect: A Completely Free Seismic Interpretation Solution

Oil & Gas operators today need to maximise returns from E&P activities, to manage costs and to tackle fields of increasing geological complexity. OpendTect meets all these challenges head on! It is completely FREE. Its unrivalled ADVANCED functionalities allow the extraction of maximum value from multiple seismic volumes in complex geological settings.

- **OpendTect is a complete seismic interpretation environment** for the processing, visualizing, and interpreting of multi-volume 2D, 3D, and 4D pre- and post-stack seismic data. OpendTect comes with complete functionality which would cost thousands of dollars with other vendors.
- **OpendTect is a truly Open Source GNU-GPL environment**, enabling accessibility to all and the fast-track development of new and innovative interpretation tools. Over 400 universities in many countries worldwide have currently adopted OpendTect for their teaching and research.

• **OpendTect has a Host of Commercial Plugins**, including:

- OpendTect SSIS, explaining the depositional history of sedimentary sequences.
- OpendTect Dip-Steering, calculating dip & azimuth volumes.
- OpendTect Neural Network, detecting geologically meaningful patterns.
- OpendTect FCF, highlighting subtle hydrocarbon-related seismic anomalies.
- OpendTect Velocity Modelling, supporting PSDM systems.
- And much more...

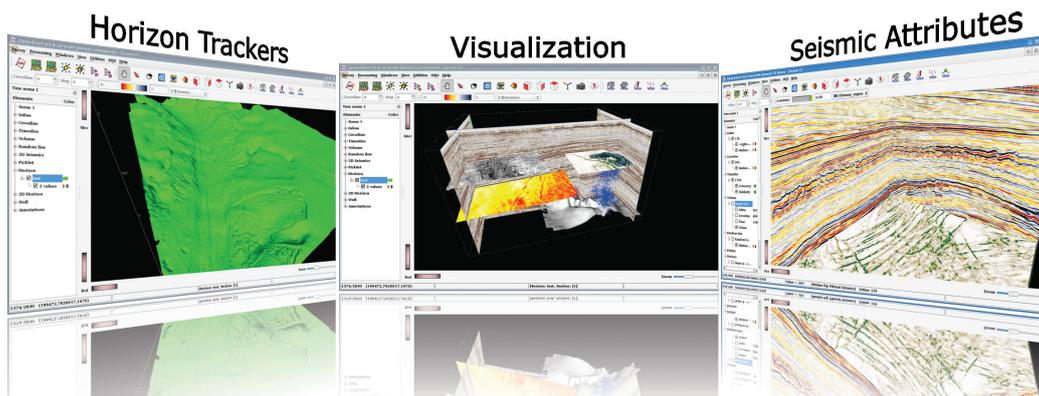
And dGB provides highly responsive 24 hour support.

Available for:

Linux (32/64 bits)

Mac-OSX (intel)

Windows (Vista/ 7/8, 32/64 bits)



OpendTect

OpendTect is a complete seismic interpretation software system, commercial plugins are available for more specialized workflows.

Available Plugins

HorizonCube: A HorizonCube consists of a dense set of correlated 3D stratigraphic surfaces which can be used for high resolution low-frequency models, sequence stratigraphy, etc.

Well Correlation Panel: For correlation of wells and seismic horizons, that can be integrated with a stratigraphic column.

SSIS: Our Sequence Stratigraphic Interpretation System allows you to unravel the depositional history of seismic data.

Dip-Steering: The dip-steering plugin allows you to create and use "steering cubes". A steering cube contains the dip at every sample.

Neural Networks: Neural networks are used for seismic facies analysis, pattern recognition (ChimneyCube) and rock-property predictions.

Fluid Contact Finder: Accurately pinpoint Gas-Water, Gas-Oil & Oil-Water contacts.

Velocity Model Building: Builds velocity models from prestack data in vertical and horizon-consistent update modules.

SynthRock: Powerful toolkit for creating and using forward models in qualitative and quantitative seismic interpretation studies.

PDF-3D: Captures 3D OpendTect scenes for reporting and sharing information via the free Adobe Reader.

Seismic Spectral Blueing: Optimizes the vertical resolution by shaping seismic spectra to be consistent with the Earth's reflectivity.

Seismic Coloured Inversion: Enables rapid band-limited acoustic impedance inversion of seismic data.

Seismic Feature Enhancement: Enhances the signal of consistent flat events and reduces the "noise" of the channel reflections.

Seismic Net Pay: Estimates net pay from seismic colour inverted data.

Workstation Access: Gives direct data access to and from SeisWorks/ OpenWorks or GeoFrame-IESX.

Petrel Access: Direct access to and from Petrel is offered through the Petrel Connector and GeoDataSync.

MPSI - Deterministic & Stochastic Inversion: Multi Point Stochastic Inversion (MPSI) is an UltraFast stochastic acoustic impedance inversion approach.

CLAS Lite: Open-hole log analysis. Includes tools that integrates petrophysics with geophysics.

XField 2D: Create 2D/2.5D geological models by integrating potential field data with seismics and other geophysical datasets in a 3D workspace.

Links to other Open Source packages: OpendTect connects to Madagascar for seismic processing and to GMT for mapping.

The OpendTect Geology Sequence Stratigraphy Package includes:

Dip Steering, HorizonCube, SSIS, Well Correlation Panel, Seismic Spectral Blueing, Neural Networks, CLAS Lite, PDF-3D, Workstation Access

The OpendTect Geophysics Attributes & Filters Package includes:

Dip Steering, Neural Networks, Fluid Contact Finder, Seismic Spectral Blueing, Seismic Feature Enhancement, PDF-3D, Workstation Access

The OpendTect Geophysics Inversion & Rock Properties Package includes:

Dip Steering, HorizonCube, Deterministic Inversion, Stochastic Inversion, Seismic Coloured Inversion, Seismic Spectral Blueing, Seismic Net Pay, SynthRock, Neural Networks, CLAS Lite, PDF-3D, Workstation Access



Head office:
Nijverheidstraat 11-2
7511 JM Enschede
The Netherlands

Phone: +31 53 4315155
Fax: +31 53 4315104
E-mail: info@dgbes.com

dGB has offices in: Houston - USA, Mumbai - India and Rio de Janeiro - Brazil.

For a complete, advanced and free seismic interpretation solution, contact dGB Earth Sciences or download at www.OpendTect.org