



# HELLO INSIGHT 4

## HELLO STACKS OF FEATURES

DUG Insight is a full-featured 2D/3D/pre-stack visualisation and interpretation package. It includes all the necessary tools for a complete interpretation workflow, from reconnaissance to crossplotting - with a fully-integrated 3D canvas, and support for pre-stack data throughout.

### DUG INSIGHT FEATURES

2D/3D/Pre-stack display	Fault and horizon interpretation	Mapping and gridding
Integrated 3D view	Waveform horizon propagation	Culture (including shapefiles)
Advanced arbitrary line navigation	Horizon interpretation on gathers	Import and export SEG-Y
Interactive time/depth conversion	Stratigraphic flattening on multiple surfaces	Mistie correction (time, phase, amplitude)
Geological cross-sections	Fault projection	Velocity conversion
Crossplotting	Polygons and fault polygons	Volume resampling
Spectral analysis	Well marker / tops picking	Trace arithmetic
Statistical wavelet extraction	Horizon amplitude extraction	RMO picking
AVA synthetics	View and interpret on image data	Project backup/restore



# POWER UP WITH ADVANCED AND SPECIALIST MODULES

## ADVANCED MODULES

### EXPLORATIONIST

From seismic attributes, filtering and smoothing, to spectral decomposition, RGB blending and velocity modelling, the Explorationist module includes everything you need to take your interpretation to the next level.

- Angle and offset muting of gathers
- Stacking of gathers
- Convert gathers between offset and angle
- Spectral balancing and shaping
- AGC and other gains (for stacks)
- Band-pass filtering (for stacks)
- Structurally-oriented filtering
- 3D dip and azimuth
- Velocity modelling (from checkshots)
- Low-frequency model building
- RGB and CMY blending
- Geobody detection
- Spectral decomposition
- Instantaneous attributes
- Incoherence, semblance and curvature
- Automated multi-horizon propagator
- Volume smoothing
- Volume interpolation + extrapolation
- Merge and sculpt volumes
- Volumetrics

### IMAGE GATHER PROCESSING

The Image Gather Processing module provides an indispensable toolkit for analysing and processing image gathers. It includes essential tools such as velocity and RMO picking, NMO and RMO correction, gains, muting, stacking, Tau-P deconvolution, Radon and FX transforms and more.

- Angle and offset muting of gathers
- Stacking of gathers
- Convert gathers between offset and angle
- Spectral balancing and shaping
- AGC and other gains (stacks and gathers)
- Band-pass filtering (stacks and gathers)
- Structurally oriented filtering
- 3D dip and azimuth
- Velocity modelling (from checkshots)
- Low-frequency model building
- Correlation and autocorrelation
- Radon, FK and FX transforms
- Dip filter and Radon demultiple
- Apply and remove NMO
- Advanced RMO picking (plus anisotropic)
- RMO correction
- Velocity picking and delta model building
- Convolution, deconvolution, FX decon
- Q filter
- Weighted trace mixing

### GATHER ATTRIBUTES

The Gather Attributes module enables interactive AVA and AVO analysis of gathers and stacks, from calculating intercept and gradient to AVA stack rotations (EEI equivalent).

- Angle and offset muting of gathers
- Stacking of gathers
- Convert gathers between offset and angle
- Spectral balancing and shaping
- AGC and other gains (stacks and gathers)
- Band-pass filtering (stacks and gathers)
- Correlation and autocorrelation
- Radon transform and demultiple
- Intercept and gradient
- Polynomial analysis of AVO
- AVA stack rotation (EEI equivalent)

## SAY HELLO TO NEVER SLEEP SUPPORT

DUG Insight offers a peerless support team located in every time zone of the world. That means round-the-clock support for users. Just email [support@dug.com](mailto:support@dug.com) for the same-day solutions that have made us famous.

**SPECIALIST MODULES**

**PORE PRESSURE PREDICTION**

The Pore Pressure Prediction module adds a complete workflow for interactive geopressure analysis, including prediction at wells and full 3D pressure models.

**Interactively predict overburden, pore, and fracture pressures**

**1D PPP at well locations**

**3D PPP from seismic velocities**

**Model centroid and fluid buoyancy effects**

**PPP uncertainty simulation**

**Eaton and Miller PPP methods**

**Matthews-Kelly fracture gradient**

**Volume smoothing**

**Volume integration**

**Velocity picking (from gathers)**

**ROCK**

Rock provides a powerful, intuitive workflow for interactive depth-dependent end-member lithology trend interpretation and stochastic forward modelling.

**Interpret lithologies from well logs**

**Calculate end-member trends**

**Quantify variation in elastic properties**

**Stochastic forward modelling**

**AVA stack rotation modelling**

**LITHOFLUIDS**

The Lithofluids module utilises a Bayesian supervised classification scheme to make quantitative predictions based upon inverted seismic data and depth-dependent, statistical rock physics models.

**Low-frequency model calibration**

**Lithology/fluid calibration at well locations**

**Bayesian prediction engine**

**Structural geological prior models**

**Lithology/fluid prediction from inverted seismic data**

**SAY HELLO TO GREAT DUG VALUE**

With competitive pricing and invisible licensing, running DUG Insight is simple and straight-forward. Prices include everything, from upgrades and maintenance to online support.

**SAY HELLO TO SEAMLESS PERFORMANCE**

Available for Windows, Linux and MacOS, Insight performs seamlessly on any machine, from basic laptops to high-performance workstations.

**SAY HELLO TO DATA ROOM POWER**

DUG Insight's powerful visualisation and interpretation tools make it a great choice for the data room. Start investigating prospects and exploring basins faster with the straightforward, easy-to-learn interface.



## DATA MODULES

### DATA MANAGER

The Data Manager module includes DUG's powerful gather compression, packing your data ten times smaller with no appreciable loss in quality! The module also extends Insight's project management tools with powerful synchronisation and project-to-project copying features.

**Advanced compression for gathers**

**Project synchronisation**

**Direct copy between DUG Insight projects**

### KINGDOM READER

Ready to switch to DUG Insight, but confronted with years of data stored in IHS Kingdom\* projects? Insight's Kingdom Reader will save you from the tedium of data migration.

**View in/copy to DUG Insight**

**Wells**

**Faults**

**2D and 3D horizons**

**2D and 3D volumes**

### PETREL LINK

Already have the Petrel\* E&P software platform? Now you can take advantage of DUG Insight's intuitive interpretation platform and advanced visualisation, using your data directly from Petrel.

**View in/copy to DUG Insight**

**Copy from DUG Insight**

**Synchronised cursor/crosshair**

**Wells**

**Faults**

**2D and 3D horizons**

**2D and 3D volumes**

### OPENWORKS LINK

The OpenWorks# Link provides a convenient, one-way connection to bring your OpenWorks well information into Insight.

**View in/copy to DUG Insight**

**Wells**

\*Mark of IHS, \*Mark of Schlumberger, \*Mark of Halliburton

# SAY HELLO TO DUG INSIGHT'S FREE 30-DAY TRIAL

We truly believe that DUG Insight will revolutionise the way you interpret your data. See for yourself and download a free, no-obligation, 30-day trial from [www.dug.com/dug-insight](http://www.dug.com/dug-insight). What's more, DUG Insight is free for academic use. Just email us a copy of your student ID and we'll tell you more.