



# GEOSUITE ALLWORKS

## Processing - Interpretation - 3D Visualization

**Geo-Suite Allworks is the ultimate solution for seismic interpretation. Always improving, yet easy to use, it is widely used by the industry and the academic world.**

### ULTIMATE GOAL

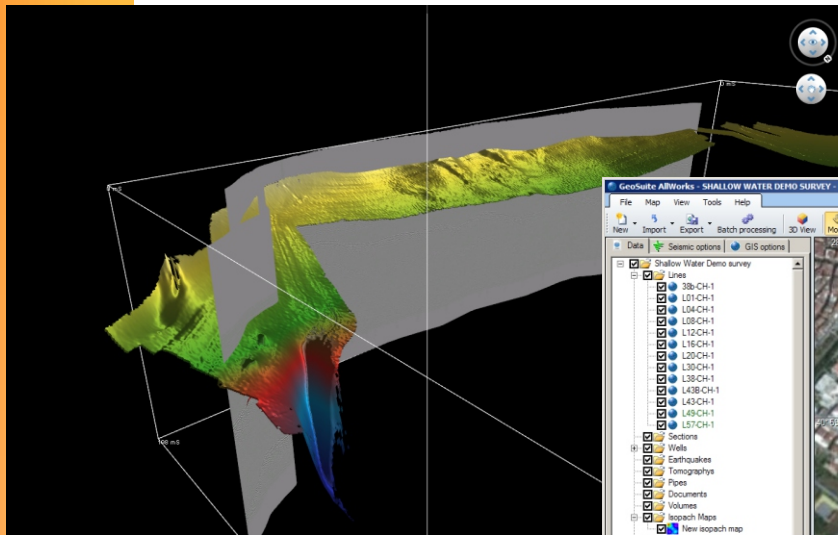
To understand the geological structure and history of an area the interpreter has to think in 3 spatial dimensions that are evolving through time.

### 3D SPACE

Therefore, **the ultimate goal** of an integrated geological study is to create a **3D model of the actual situation** where all geophysical and geological data can be represented in their true spatial position.

### SOLUTION

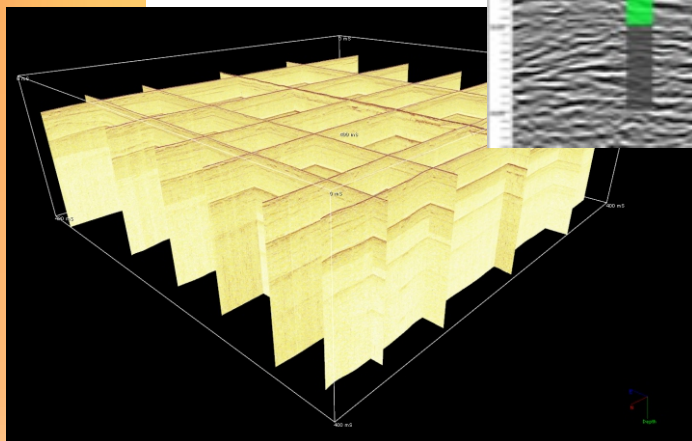
**GeoSuite AllWorks** offers a comprehensive series of advanced tools using all types of domain information plus geological and geophysical knowledge to help you with complex 3-D data interpretation in **one single software environment**.



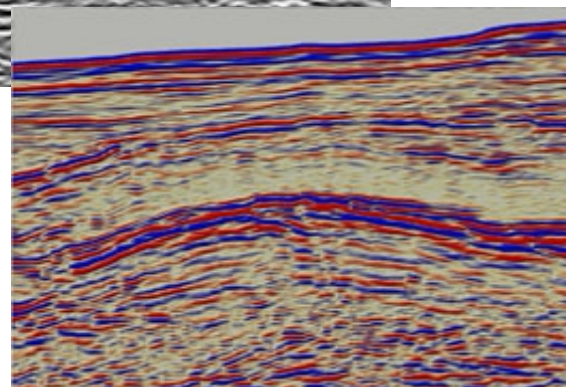
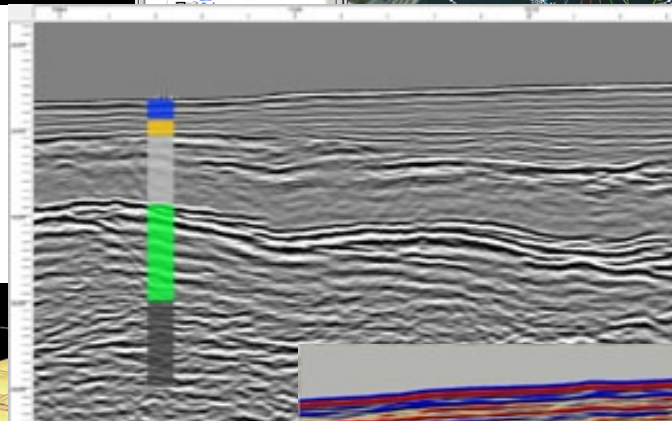
**Earthquakes - Tomography  
Isopach Maps - GeoTIFF layers**

**Bathymetry in 3D  
Multi-beam**

**Well Information and Logs**



**3D Seismic Visualization**



**Advanced seismic rendering**



# GEOSUITE ALLWORKS

## Processing - Interpretation - 3D Visualization

**FAST HI-RES  
PROCESSING**

**INTERPRETATION**

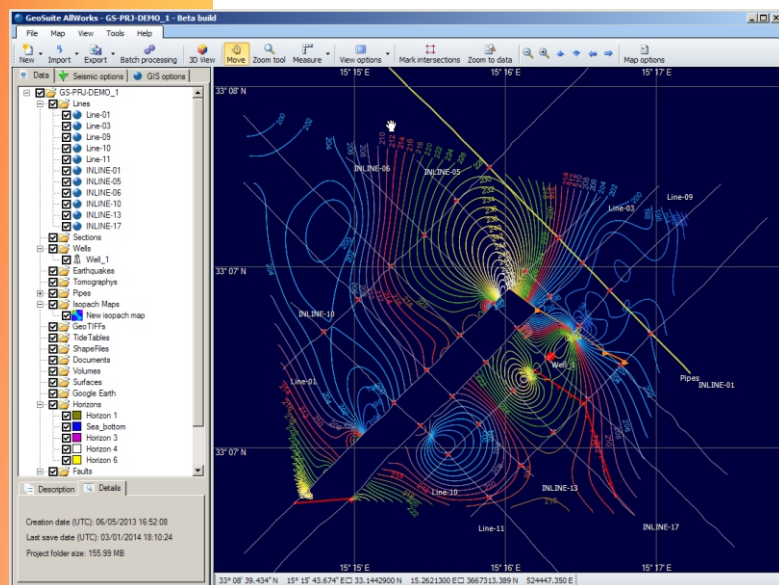
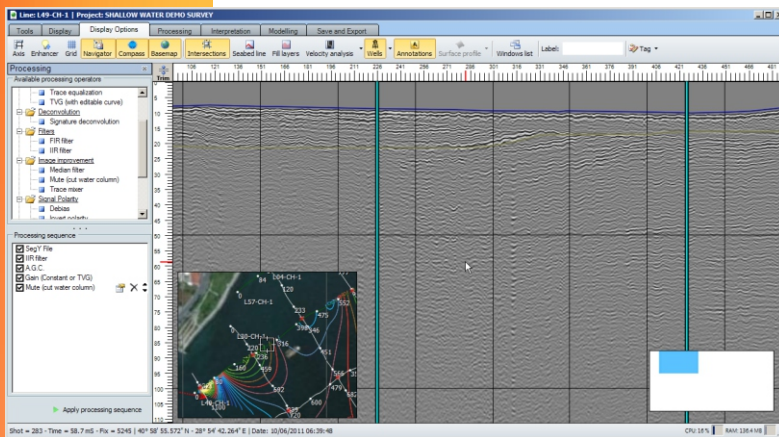
**2D and 3D  
VIEWING**

**ALL-IN-ONE  
DATABASE**

**MAPS**

## GeoSuite AllWorks provides what you always wanted

- Very fast and specialized hi-res seismic processing of your data at any stage in your interpretation process
- Easy picking of horizons, interpretation of faults, time-depth conversion.
- Simultaneous 3D viewing of your profile, your map, your seismic profile, any data from any viewpoint you select.
- Seamless import of other data sets: well data, multi-beam data, images of old sections, interpreted profiles, earthquake data.
- Interactive editing and viewing of your maps or charts



## New, fresh approach

Existing processing and interpretation packages are not only complicated but also expensive and only accessible for some happy few.

GeoSuite AllWorks is an original and fresh software which does not have the burden, nor the limitations from the past.

## Cost-effective

We are continuously improving GeoSuite AllWorks, keeping it simple and affordable for everybody.

## Simple to use

GeoSuite AllWorks is designed to be user friendly and intuitive in a way that allows you to use it out-of-the-box. However, the software is provided with a complete guide and help manual that can answer all your questions.

Create your projects and import data with one-click tools.

Survey boundaries are automatically calculated with the proper data and coordinate formats.

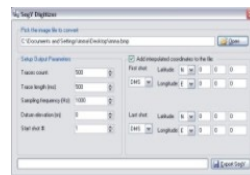
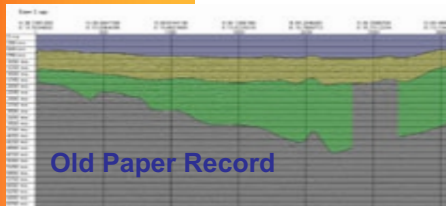
You can focus entirely on geological and geophysical aspects of your project.

## Follow your ideas

The docking interface enables you to re-arrange the default layout of windows and dialogs the way you prefer on a single or multi-monitor configuration. The GUI layout is designed in order to take advantage of wide and high-resolution screens.



### SEG Y DIGITIZER PLUG-IN



Oops...

### Preserving your old data about to be lost

You can preserve old seismic data acquired in the past and import it in your projects to integrate our geological mode.

## Comprehensive Database

An individual data set, alone, is often not enough for creating a 3-D model.

GeoSuite AllWorks provides a series of flexible and innovative methods to collect, import, filter and analyze all kinds of heterogeneous data sets in one 3-D model.

This allows to make a spatial cross correlation of different data sets and will open the way to new insights and concepts.



GeoSuite AllWorks supports a wide range of data format standards such as SEG-Y and XTF (seismic), ESRI ASCII (Digital Terrain Model, Multibeam echosounders), CSV (Earthquakes and tomography data, Track pipes), Adobe PDF, Google Earth, AutoCad DXF, BMP, JPG, PNG (Image files).

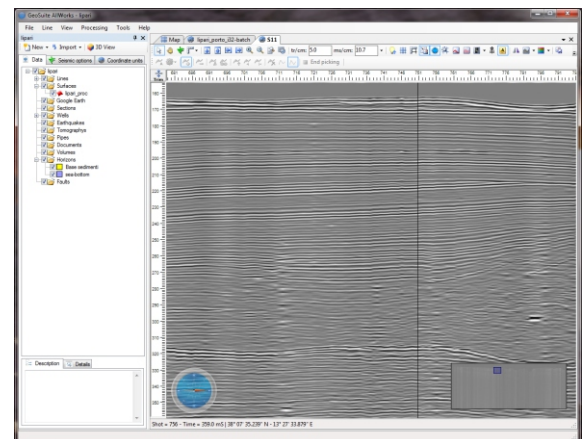
Interoperability

## New techniques and dedicated plugins

GeoSuite AllWorks is open ended. We continuously incorporate new techniques in earth sciences.

Our team develops dedicated plugins and customized modules in order to fulfill any task in geological interpretation, always looking for refreshing new ideas.

GeoSuite AllWorks simplify all the non-trivial interpretative processes which transform data into useful information, thanks to the confluence of data and knowledge.



## Multi-disciplinary Frame work

GeoSuite AllWorks provides a multi-disciplinary framework, which can be used for many geological and geophysical studies.

### Boosting efficiency and comprehension

Experts with different competencies can work together using one single software environment with multiple data sources.

This is effectively increasing efficiency and reducing the costs of remote cooperation.

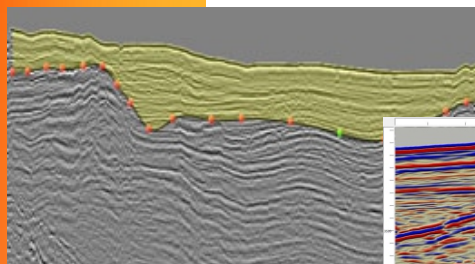
### Multi-disciplinary database

You can create your database with an unlimited variety of geo-referenced data including multi-beam bathymetry, earthquakes, tomography, well sites, single/multi-channel seismic profiles, horizons, faults, velocity profiles.

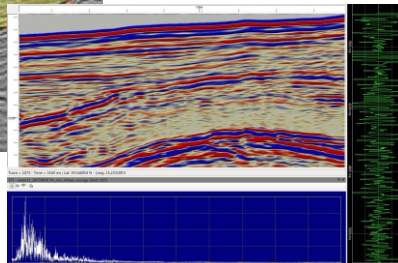


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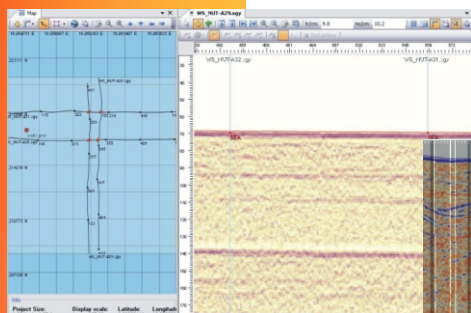
## Processing - Interpretation - 3D Visualization



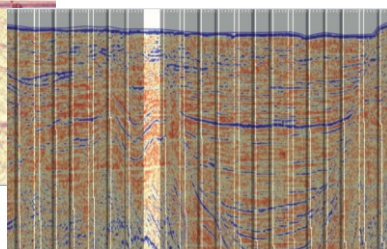
**Auto-picking &  
Colour Overlay**



**Trace Viewer and  
FFT Computation**



**Crossing Lines**



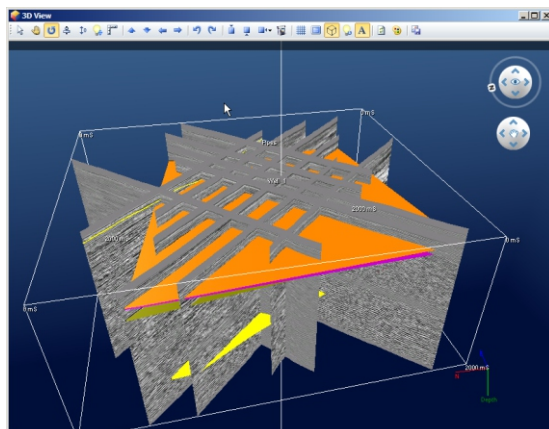
**Velocity Analyses**

## Connected 2D/3D views

All the 2D and 3D views simultaneously updated every time you apply changes.. This includes the positioning information relative to the mouse position, that are geo-referenced in all views.

You can apply any transformation to your point of view in the 3D interactive environment: zoom in and out, rotate, tilt and panning.

The enhanced 3D rendering engine includes lighting options for surfaces, opacity settings and switching between solid and wireframe mode.



## Fast Seismic Processing

You will just be amazed by the speed of the new specialized, hi-res seismic processing algorithms. Usually, you spend most of your time waiting behind the screen. Now, with GeoSuite AllWorks, you get an almost instantaneous high quality response.

Thanks to our proprietary memory management technology, we are able to display very quickly, large seismic profiles, at high resolution. Moreover, we use a special sub-sampling algorithm to obtain a smooth image in sloping structures

## Easy Interpretation Tools

GeoSuite AllWorks offers a set of powerful interactive auto-picking algorithms, which will improve your productivity and accuracy beyond expectation.

For definition of your structural framework, fault traces can be picked in 2D, and simultaneously displayed as planes in 3D.

You can cross-correlate your seismic data with a wide variety of other data sets: well logs, cross sections, velocity profiles.

Using the velocity information, you can obtain a precise time-to-depth conversion, that will show the real structures both in 2D and 3D.

High quality show sections with transparent colored overlays are produced by just one click of the mouse.

## Free lifetime updates

Updating GeoSuite AllWorks is fully automatic. Just connect your computer to internet and the program will get up-to-date by itself, every time a new version is available on the server, free of charge.

## Recommended Hardware

GeoSuite AllWorks is available on Windows 7/8/10. We recommend the use of a workstation with multi-core processor technology, 8 Gb RAM and minimum 512 Mb video memory. Furthermore, we strongly recommend an high resolution multi-monitor setup in order to improve your user experience.

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