

# Integrated Interpretation

**TERRASYS Geophysics' integrated approach to tackle demanding interpretation tasks in complex geological settings combines advanced 3D modeling and inversion of potential field data with modern seismic imaging techniques. A comprehensive integration of available geo-data is essential for increased reliability and reduced risk.**

## Integrated multi-disciplinary workflow for complex scenarios

De-risking subsalt exploration, for example, is presently being done by advancing seismic technology and application of integrated interpretation processes focused on seismic data.

A revival is underway in the use of gravity, gravity gradients, magnetics, electromagnetics (EM), and magnetotellurics (MT) to provide better geologic understanding from seismic results.

## Better seismic imaging quality by independent technologies

Other independent geophysical techniques which respond to the same (or are linked to the same) lithological parameters as the seismic method can be used to provide additional input and greatly enhance the imaging quality.

In recent years numerous projects involved areas within complex tectonic settings; they showed how advanced multi-disciplinary modeling helps to obtain reliable geological solutions,

such as well-defined salt geometries and constrained velocity models, e. g. for optimized pre-stack depth migration results.

## Innovative 3D interpretation suitable for different scales

Although most studies focus on prospect level targets, TERRASYS has wide experience with rather regional projects, as for basement classification, as well as with high-resolution applications, e. g. for improved static corrections.

Beside their classical use for reconnaissance studies, potential field tools have a growing impact on prospect- and reservoir-scale operations.

## GEOMASTER – developed for integrated studies

With GEOMASTER, our integrated in-house software environment, we are positioned to provide the necessary technology for our advanced interpretation and consulting services.

