RMS™

Seismic Visualisation & Attributes

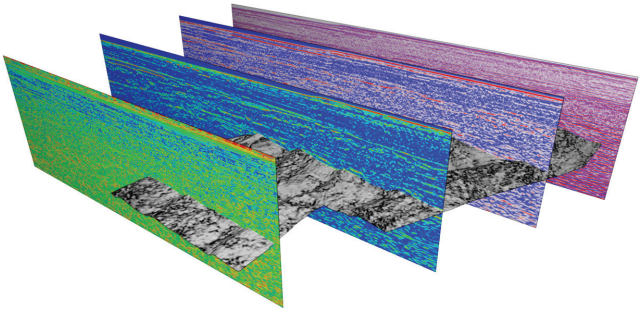
The RMSSeismic tool includes complete functionality for creating a range of attributes which facilitates high-quality interpretation of your imported seismic data. Large seismic cubes can be handled efficiently during attribute generation, and the speed and quality of the graphics are not compromised. Moreover the attribute functionality complements the existing features of seismic visualisation, and sampling of seismic to 3D grids for further use in the geological modelling workflow. User's are now able to fully utilise their seismic data in every step of the seismic to simulation workflow. Critical decisions will be made with less risk.

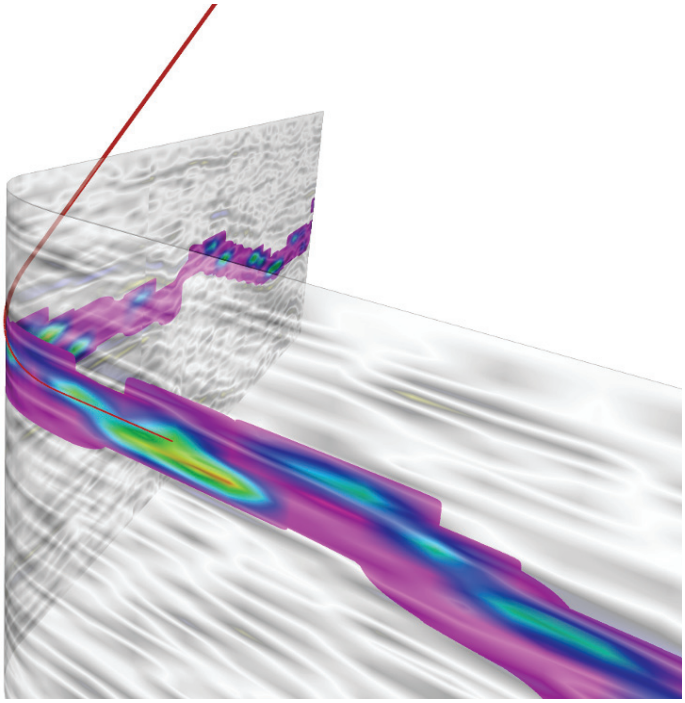
IN SUMMARY

- Fast and flexible visualisation tighly integrates seismic data into the geomodelling workflow.
- Industry standard attribute calculations to give the interpreters the detail they need to make the right decisions.
- Import, export, and manipulate data in standard formats.

Improved Decision-Making

The RMSseismic module includes powerful seismic visualisation tools for improved decision-making and quality control within the industry leading reservoir modelling workflow RMS™. The application of attributes into the workflow greatly enhances the identification of features and properties which may otherwise be difficult to ascertain from direct observation of the seismic cube. These tools facilitate thorough quality control of interpretations, structural and property models, simulation models, and well plans. The import of 2D and 3D seismic data is easy and the modern visualisation sets a new standard in performance, unleashing the power of modern graphics cards.

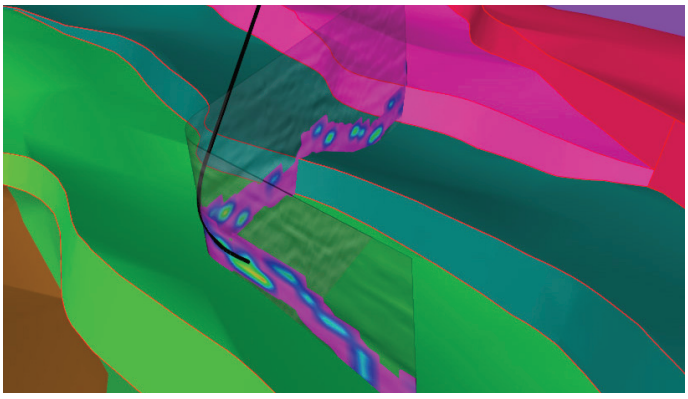




You are able to fully leverage all of your available seismic data through every step of the seismic to simulation process. During your reservoir modelling process you can go back to seismic data at any time, and verify that the decisions you made were correct. With a range of visualisation options, you can review all aspects of your model.

Seismic Attributes

With RMS it is possible to derive an array of seismic attributes which are a key tool used by interpreters to aid in the identification of subsurface features and properties. The colour coded attributes reveal measurements and changes in measurements which can be useful for interpreting rock properties, structural features and hydrocarbon accumulations. In addition they can be used for guiding facies distributions. This new functionality means you can get the most out of your seismic data by aiding identification of faults and discontinuities, and providing quick recognition of geological patterns and features. Furthermore you will be able to better quantify the rock and fluid properties in your reservoir and condition your models to all this new information.



Seismic Visualisation & Attributes

Import Tools for SEG-Y Data Sets

RMS imports and incorporates the seismic data into its projects. During import the data is transformed into a compact representation optimised for visualisation and calculations, whilst preserving the precision of the original data.

RMS users can import large unlimited amounts of seismic data. Due to the advanced compression during loading to RMS, there is no need to clip and scale your seismic data. Added benefits are the need for less disk space plus superior performance.

Both 2D and 3D seismic is supported. Once the data has been loaded and the project saved, RMS does not require access to the original SEG-Y files.

Seismic Visualisation

The seismic module provides fast and accurate visualisation of seismic data sets of any size.

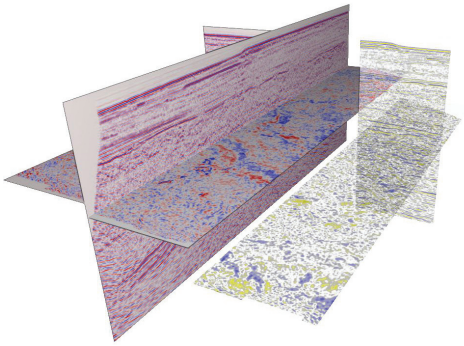
Probes can easily be generated and allow for numerous ways of visualising the data. Some of the new options are:

- Probes of any shape; including slices, boxes, tubes
- Probes generated from multiple sets of seismic data.
- Probes generated from other RMS data types, such as 3D grid parameters and velocity models.
- Fully interactive opacity control and colour manipulation capabilities provide many possibilities for inspecting the data.

Quality Control

As you see the need for changing or updating your model, there are a variety of editing utilities available from the industry leading Structural Modelling module in RMS.

Powerful seismic tools for converting both Grid parameters and Velocity models to volume data allow you to visualise any grid parameters and any velocity models, by using the new seismic visualisation tools.



Making Use of Seismic Data

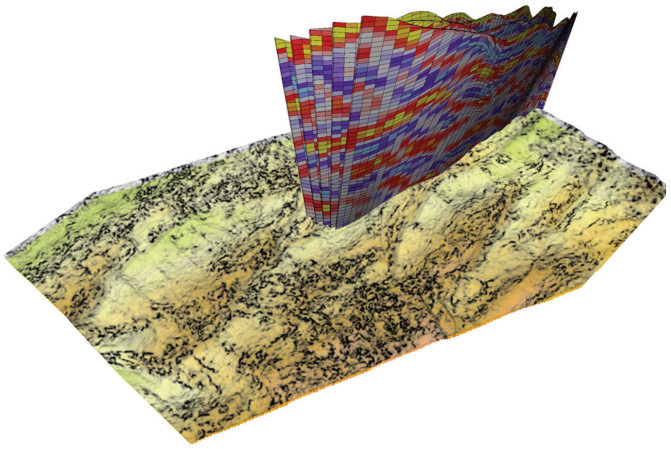
It is paramount to incorporate seismic data in the reservoir model. Volume data can be easily sampled onto any grid parameter or surface for further use in Property modelling.

RMS provides a selection of methods which allows seismic data to be fully utilised in facies and petrophysical modelling, notably the facies models can be conditioned to the Seismic Attributes. In addition, SedSeis allows you to blend the seismic data and interpretations with the stochastic modelling techniques to close the resolution gap between the two methods.

Seismic values can be draped onto surfaces in order to help highlight areas of interest – either to illustrate structural features, for further interpretation, or as possible drill targets.

Depth Conversion of Seismic Data

In order to compare your geological model in depth and your well data against seismic, the data must reside in the same domain. In RMSSeismic, data can be converted from time to depth in one step using either a Velocity model or a Velocity cube as input. In addition, new functionality for wells means you can now import Checkshot data and create TWT logs quickly and easily in RMS.



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