

Jason Geoscience Workbench

*Integrated Reservoir
Characterization,
Modeling and Lithology
Interpretation system*

*Workflows can be tailored
to fit your project needs*

*Results integrate easily
into your other work*

*Results can be updated
with new well information*

*Dedicated R&D team of over
30 research and programming
professionals continually
improves product*

*Local support and training
at 20 offices worldwide*

*15+ years of development;
10+ years in use*

*You get a better understanding
of your reservoir in less time -
More Oil with Less Toil!*



Integrated Reservoir Characterization

The best way to manage hydrocarbon reservoirs is to base decisions on models constructed using all available data. To do so, you must be able to handle seismic data, geologic information, well log data and statistics. The Jason Workbench does all this and more.

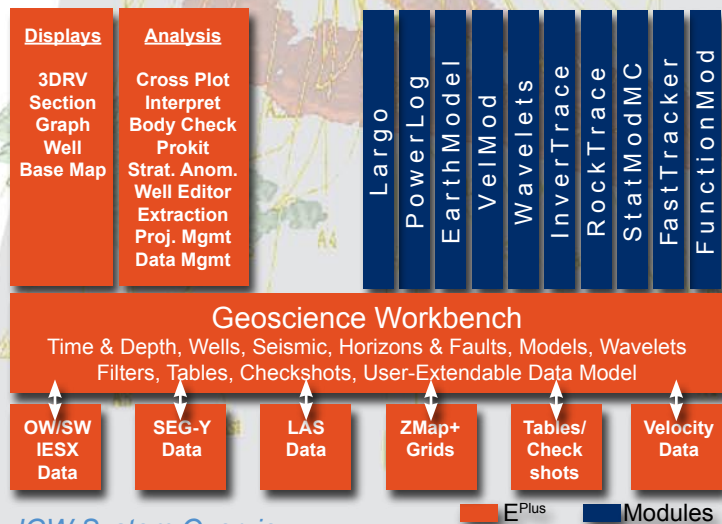
With the Jason Workbench, seismic, well log and statistical data can be directly input and used to calculate a geologic model or series of models. The Jason Workbench modules become part of specific workflows to solve specific problems. As a result, geological, geophysical, petrophysical and rock property information integrates into a single consistent model of the earth.



JGW Modules

The Workbench is built with a modular architecture.

- RockTrace: Simultaneous AVA Constrained Sparse Spike Inversion**
 RockTrace is the only technology that quantitatively integrates well log elastic rock properties and AVA seismic to produce calibrated quantitative 3D volumes of rock properties such as p- and s-impedance, density, and lithology.
- StatMod MC: Geostatistical Inversion**
 StatMod MC combines classic geostatistics with innovative Fugro-Jason inversion methods in a program that is valuable in both exploration and reservoir development. StatMod MC creates reservoir models that exhibit proper geomorphology and are consistent with well log and seismic information.



JGW System Overview



JGW Modules (continued)

"I used the Jason system personally for several different interpretation and seismic analysis projects in the Gulf of Mexico and found the software to be both reliable and powerful. The software provided virtually all of the tools I needed to analyze my seismic data."

- BP Canada Energy Company

"The inversion with the Workbench tools has yielded a product with higher vertical resolution, resulting in a clearer depiction of potential reservoir thicknesses."

- Chevron

- **InverTrace^{Plus}: Constrained Sparse Spike Inversion**
InverTrace^{Plus} transforms seismic data to an acoustic impedance log at every trace. Acoustic impedance is a property of the rock layer itself, making stratigraphic interpretations easier and more accurate.
- **EarthModel: 3D Geologic Model Builder**
EarthModel creates 3D models from well log data. These models are used within the Jason Workbench to provide a stratigraphic framework and the low frequency trend for trace-based techniques.
- **Wavelets: Normal Incidence and AVA Seismic Wavelet Estimation**
Fugro-Jason has invested a great deal of resources in developing and implementing the most advanced wavelet estimation methods and a wide variety of QC capabilities to ensure that a high-quality inversion is obtained.
- **Largo: Rock Physics and Fluid Substitution**
Largo uniquely integrates well log data and rock physics modeling with seismic analysis. Largo is the quality control link between petrophysics, rock physics, and the seismic inversions.
- **FunctionMod: Workbench Data Calculations**
FunctionMod is a model manipulation and arithmetic tool for working with Jason Workbench data files. Complex functions can be created, including results that cascade into other computations.
- **VelMod: Velocity Model Building**
VelMod builds 3D velocity models from stacking velocities and calibrates these models to well control. These models can be used for time-depth conversion or as a low-frequency trend during seismic inversion.
- **E^{Plus}: Analysis, Interpretation and Display**
The Fugro-Jason E^{Plus} set of applications is designed from the ground up as a lithologic interpretation environment, meaning it is designed to properly handle both geologic and geophysical data in a smooth, seamless, efficient manner. E^{Plus} is uniquely suited for interpreting and analyzing the rock property data generated by the Jason Geoscience Workbench.

About Fugro-Jason

Fugro-Jason is the world's leading and fastest growing company in quantitative reservoir characterization and modeling. Fugro-Jason's industry-wide acceptance as the leader in this field is due to its unique software and services solutions that successfully combine engineering reality with sub-surface modeling. The resulting subsurface models are consistent with all data available. The application of Fugro-Jason's technology, either through use of the software or through our consultancy services, substantially improves returns on E&P investments by adding invaluable reservoir model information that reduces the risks, costs and cycle-times associated with field development.



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