



**QINTEGRAL**

**ACCURACY**

Better time-depth conversions result from using well-based velocity data to calibrate seismic velocities. EzTZ prepares time-depth data sources for use in depth conversion workflows.

**SPEED**

EzTZ is easy to use. Regional studies are typically completed within a few days.

**COST EFFECTIVE**

Pay only for the time you need. Prices start from AUD\$687.50 +GST for a 5-day lease.

**ABOUT QINTEGRAL**

Founded in 2018 by Dr Jarrod Dunne, we have global experience in depth conversion for a range of exploration and production challenges. We offer consultancy services and software solutions with a focus on achieving true integration between geological and geophysical information.

For more information please visit:

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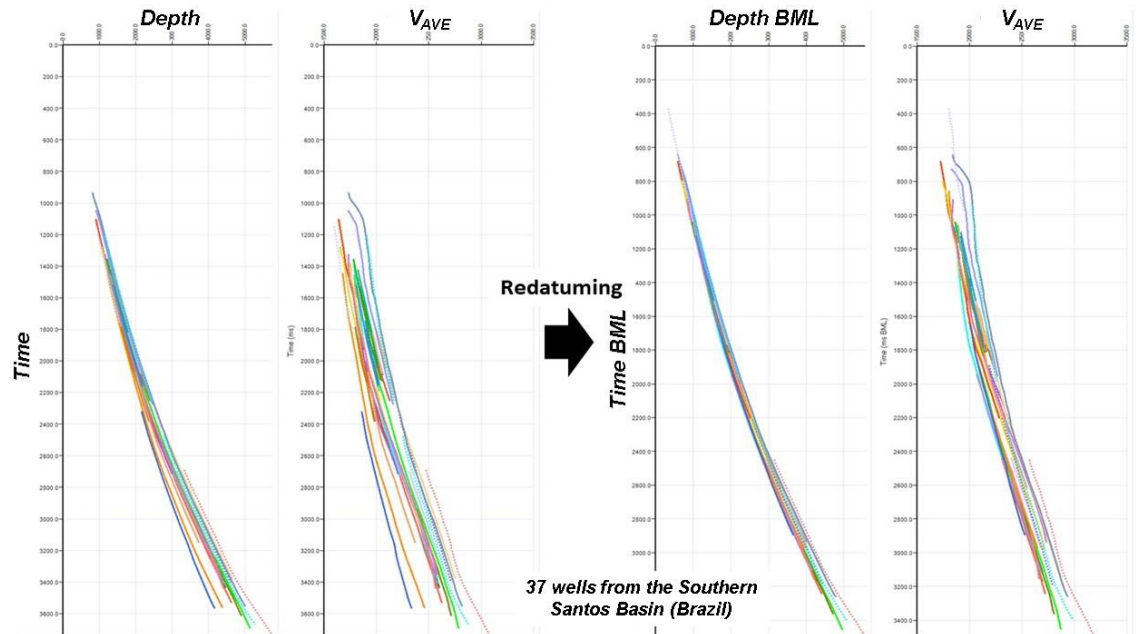
**EzTZ™**

**An essential precursor for depth conversion**

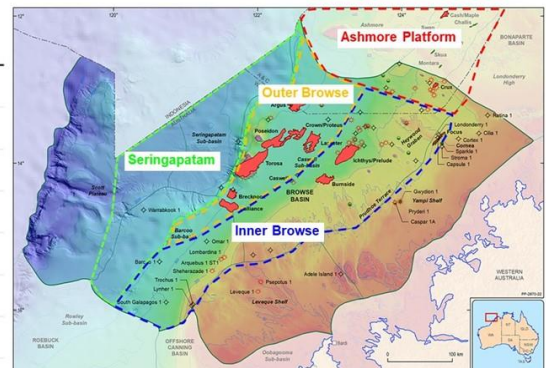
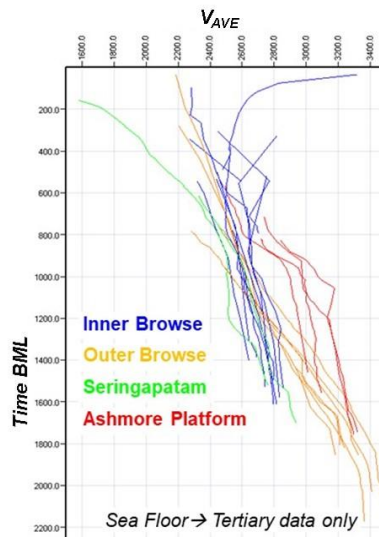
Did you know that there's a lot more to depth conversion than some seismic interpretation packages lead you to believe? And how can you make depth predictions at new drilling sites that are accurate to within several metres?

*"It helps to think of depth conversion as a form of lateral prediction, similar to the typical QI challenge"*

The secret to improving lateral depth predictions is to carefully *prepare* and *compare* well-based and seismic velocities in a way that enables geologically meaningful calibrations of those velocities to wells (as opposed to just randomly flexing a more crude depth conversion to well tops). In offshore settings, redatuming velocities to sea floor can help to tease out compaction trends, while filtering according to lithostratigraphy is another way in which clearer trends may emerge from the data.



EzTZ is a new software efficiency tool (Windows OS) for preparing and analysing well-based and seismic velocity data for use in depth conversion, or for use as rock physics models in Quaiquito™. It can be used to construct regional depth conversion databases that improve depth conversion strategies and reduce residual depthing errors.



<b>Input data</b>	Checkshot, VSP or synthetic time-depth tables
	Seismic velocities at well locations (if available.)
	Well locations
	Stratigraphic tops

# EzTZ™ Multiclient Databases

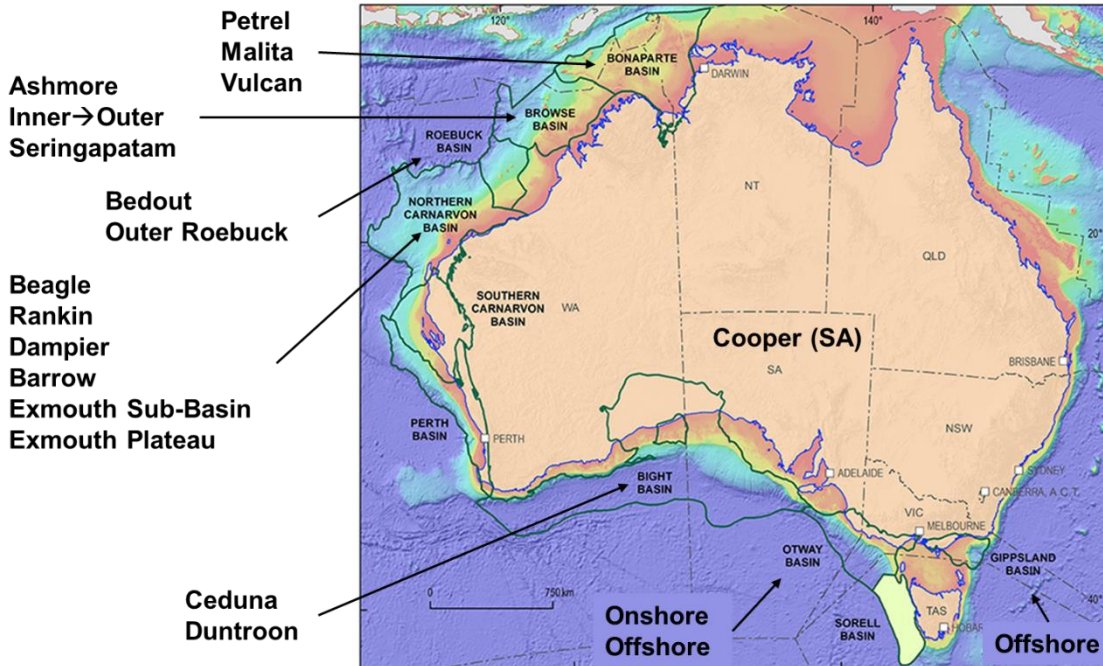
## For regional studies and calibrating seismic velocities



**QINTEGRAL**

EzTZ™ has been used to build well-based velocity databases for many sedimentary basins around the world and in each case they show strong evidence of the geological processes at work. EzTZ helps to QC well-based time/depth data and to derive regional V0-k trends, which can be used for depth conversion and also to drive rock physics models in Quiacito™.

To date we have extensive coverage in the Australian offshore basins (see below) and in many prolific petroleum basins around the world. New databases can be built in a matter of days – if you can provide the data, then we are happy to build new multiclient or proprietary databases too.



### EZTZ ADVANTAGES

- Checkshot/VSP data entry
- Interactive data editing
- Redatum to mudline
- Exploit well tops/stratigraphy
- Map data integration
- Derive calibration logs

### COVERAGE

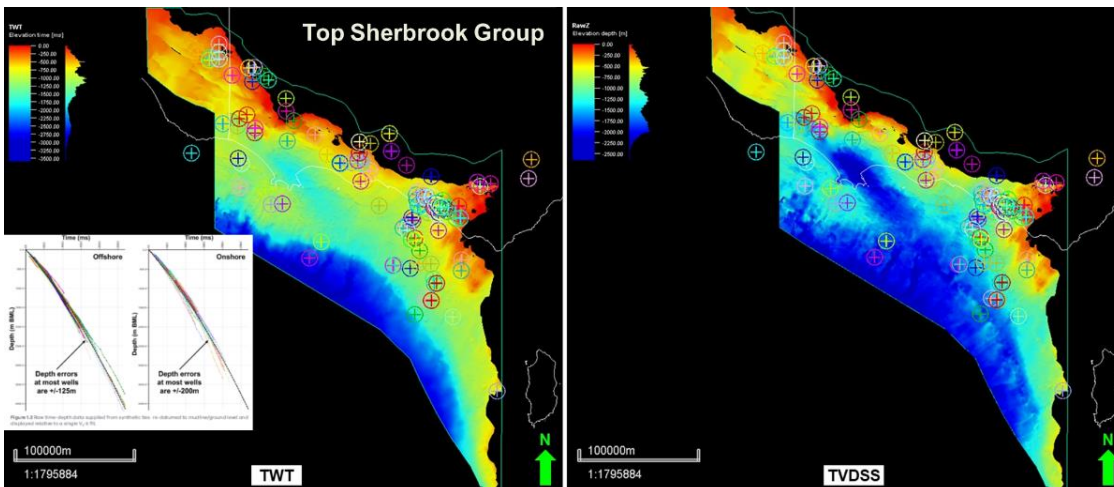
- Australian offshore basins
- Brazil
- Southeast Asia
- West Africa

### APPLICATIONS

- Depth conversion
- Depth calibration to wells
- Seismic velocity modelling
- Seismic processing QC
- Basin modelling
- Quantitative Interpretation
- Multiphysics integration

Adding seismic processing or imaging velocities into EzTZ enables calibration at selected wells, by comparing vertical velocities derived from well-based data (i.e., checkshots, VSPs, synthetic ties) with angle and azimuth dependent velocities derived from seismic sources. Calibration logs capture the vertical variation in this well-known anisotropy effect, with 3D modelling used to interpolate between well control points and effect a precision depth conversion.

*“Why drive 3D depth conversion using random or geostatic methods, when you can interpret and use geology”*



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