



QINTEGRAL

QUALITY DECISIONS

Drilling predictions are more likely to come true if the predrill subsurface story hangs together. Quiacito integrates diverse sources of geological and geophysical data to support co-interpretation of seismic, gravity and magnetic data.

SPEED

Quiacito is highly interactive. Models are calculated in real-time, making it an ideal screening tool.

COST EFFECTIVE

Pay only for the time you need. Prices start from AUD \$688+GST for a 5-day lease.

ABOUT QINTEGRAL

Founded in 2018 by Dr Jarrod Dunne, we have global experience in using seismic and potential fields data for a range of challenges in petroleum and minerals exploration. We offer consultancy services and software solutions with a focus on achieving true integration between geological and geophysical information.

For more information visit:

www.qintegral.com.au

Email: contact@qintegral.com.au

Phone: +61 403 354 102

ABN: 87 628 645 223

Quiacito™ Potential Fields Modelling

Fast, integrated geophysical modelling

If your model doesn't explain ALL of your geophysical data, would you claim to understand a mineral deposit?

As minerals exploration inevitably turns towards undercover resources, we need improved methods for derisking deeply buried prospects. Exploration for the #energytransition needs to be done efficiently – reducing cost and environmental impact!

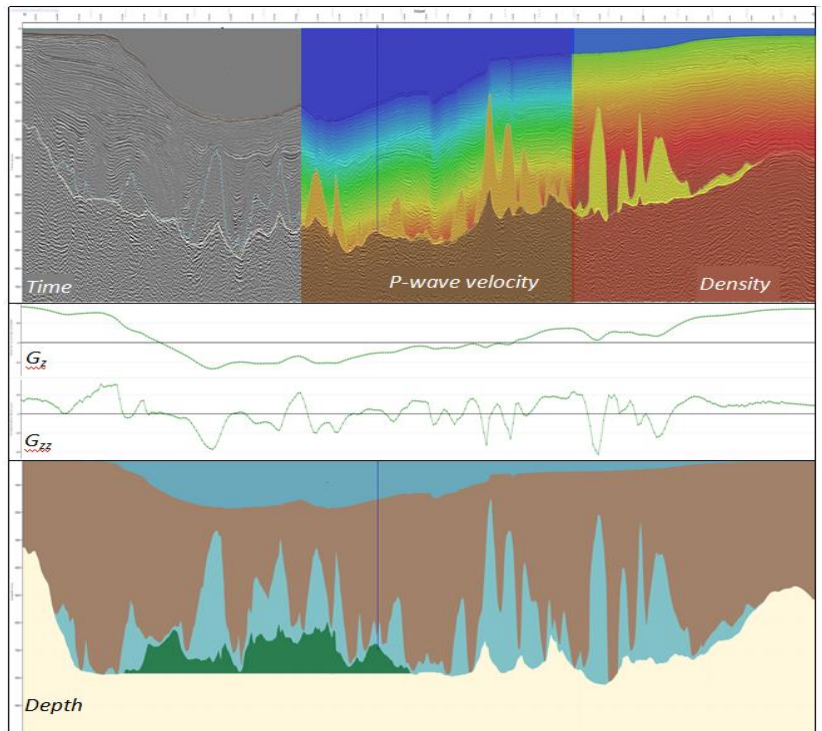
Quiacito is a modelling software package (Windows OS) designed to help screen resource opportunities by location, size, depth, orebody density and grade. Born as a seismic modelling package, Quiacito now integrates potential fields methods into its streamlined profile modelling environment. With seismic, potential fields data, and stratigraphic interpretation arranged side-by-side, you can use Quiacito to build predictive models quickly and easily.

An Integrated Workflow

Co-interpret seismic, gravity and magnetic data in a pseudo-3D depth section. Address critical questions, such as:

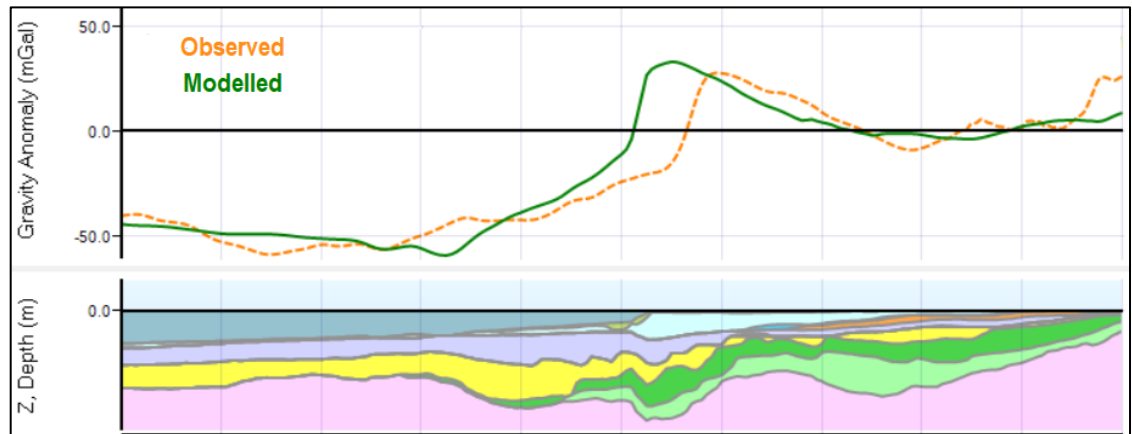
- Would developing the target be economic?
- What is the cover?
- Should you expect geophysical anomalies?
- Does your model explain the geophysical data?

Quiacito is an efficiency tool, cutting down the time taken to find answers and paving the way for more detailed work where it matters.



“You can think of Quiacito as a whiteboard for testing your interpretation of geophysical data sets”

With applications in minerals exploration below cover, fluid storage (CO₂, H₂) and petroleum, contact us to discuss how we can help you derisk your prospect using Quiacito.



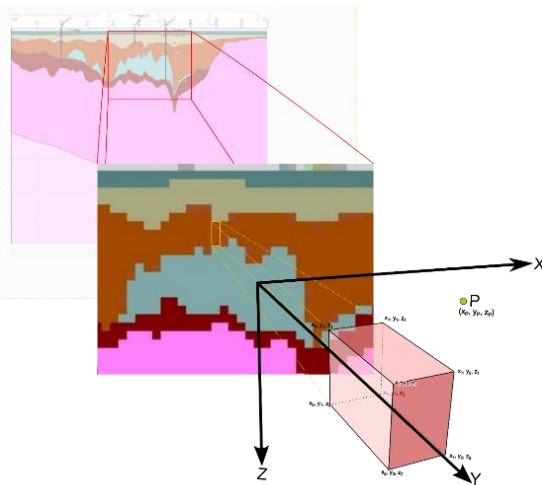
Quiacito™ Multiphysics Integration

Fast, integrated geophysical modelling



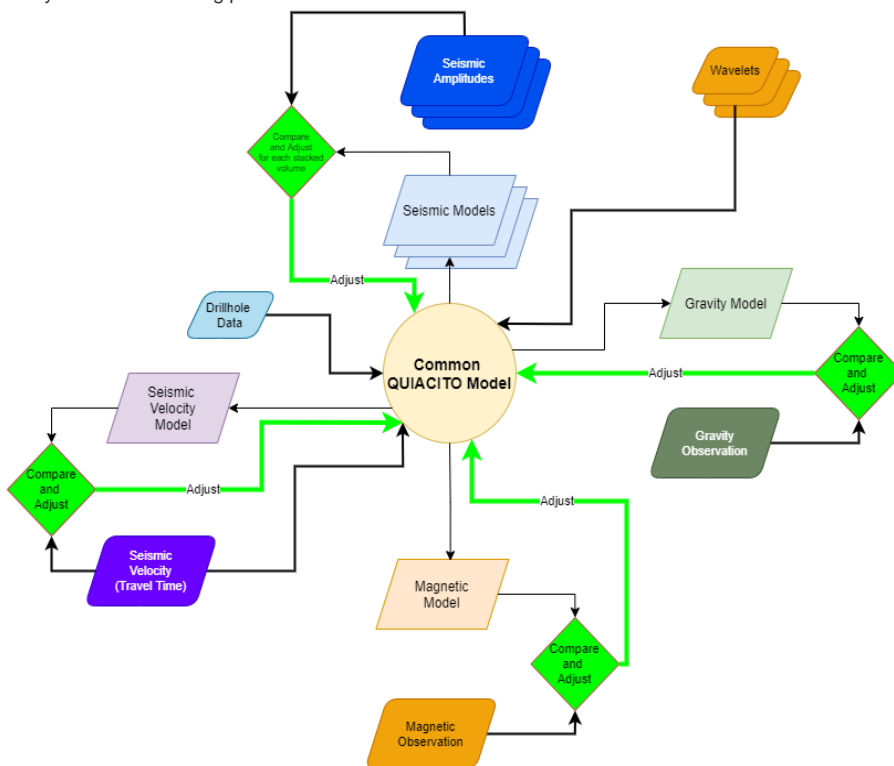
QINTEGRAL

Use all available geophysical data to ensure that your interpretation reflects closely what's really in the ground



Quiacito models are driven by a rock physics engine that exploits physical linkages between rock properties. A seismic interpretation package at heart, Quiacito uses rock physics to leapfrog from velocities and seismic amplitudes to density and then gravity data. Rock physics models account for sediment compaction and increasing density at depth, informing more reliable depth conversions and more accurate subsurface models. Adding susceptibilities to the same model framework, seeking to explain magnetic data, results in further refinement of the multiphysics model. Future releases are planned to enable simultaneous modelling of electrical geophysical methods using conductivity properties governed by petrophysical models in porous layers.

Modelling is conducted along arbitrary 2D profiles, typically guided by seismic data where it exists. A simple 2.5D out-of-plane environment for modelling discrete bodies lets you account for plugs, dykes and plutons whose strike extent and orientation might vary away from the modelling plane.



Integration in Quiacito revolves around a process of iterative refinement, enabled by bringing all of your data into the same model space. Test ideas rapidly in a highly interactive environment to screen whether your model explains the geophysical anomalies and has economic value. Comparing independent geophysical data types reduces the set of possible models to only ones that can explain all data.

Using Quiacito reduces subsurface uncertainty and leads to better drilling decisions

INTEGRATION

We work with a mindset that a valid model of the geology should predict the available geophysical data if the measurements are accurate and the modelling physics is right.

MODEL CONFIDENCE

Quickly iterate through alternative models to close the loop on possible solutions. Eliminate incongruent model cases and assess prospect risks often in a matter of minutes.

APPLICATIONS

- Integrating geophysics methods
- Potential fields modelling
- Hardrock seismic interpretation
- Seismic planning/feasibility
- Depth prediction
- Characterize cover
- Quantitative interpretation
- Geomechanics

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