

Houston, Texas, USA - 27 August 2024



DUG officially launches elastic MP-FWI imaging solution

Today, in ground-breaking news, DUG Technology (DUG) officially launched its latest seismic data processing, imaging and interpretation solution — DUG **Elastic** Multi-parameter Full Waveform Inversion (MP-FWI) Imaging. The industry-shaking announcement was made at The International Meeting for Applied Geoscience and Energy (IMAGE '24) in Houston, Texas, where DUG will be showcasing results from all of its latest geoscience technology.

DUG's new elastic solution builds on its revolutionary and already very successful acoustic MP-FWI imaging technology, which has now been applied to over 40 projects across the globe, delivering real-world impact to clients. With its new elastic MP-FWI imaging tech DUG is set to rock the seismic data landscape once again.

DUG Elastic MP-FWI Imaging utilises superior physics to remove the assumptions and approximations of *both* traditional processing and imaging, *and* traditional quantitative interpretation workflows. Strong impedance contrasts (in particular those with high impedance contrasts produced by salt or chalk, for example) produce significant elastic effects that must be accounted for to correctly image the seismic wavefield and deliver true-amplitudes for quantitative interpretation. DUG's new elastic imaging technology solves for three-component reflectivity, V_p , V_s , P-impedance, S-impedance and density, delivering unsurpassed results in much shorter timeframes.

DUG's Managing Director Matt Lamont said, *"Today has been many years in the making. DUG's foundations were built on both seismic data imaging and quantitative interpretation. Our new elastic MP-FWI imaging combines these disciplines into a single, elegant solution. It is an understatement to say that we are very excited to be able to now offer this technology to the world. The results are spectacular and we have no doubt this solution will be transformative for our clients."*

DUG's latest elastic implementation delivers not only another step change in imaging quality, but also elastic rock properties for quantitative interpretation and pre-stack amplitude analysis — *directly* from field-data input.

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About DUG

DUG is an ASX-listed technology company, headquartered in Australia, that specialises in analytical software development, big-data services and reliable, green, high-performance computing (HPC). DUG is built on a strong foundation of applied science and a history of converting research into practical, real-world solutions. DUG delivers innovative software products and cost-effective, cloud-based HPC as-a-service backed by bespoke support for technology onboarding. DUG's expertise in algorithm development and code optimisation enables clients to leverage big data and solve complex problems.

DUG delivers a comprehensive geoscience offering backed by over two decades of experience and a focus on R&D. DUG maximises the value of seismic data with customised services, software and HPC solutions enabled by innovative technology including Multi-parameter FWI Imaging.

DUG is a global company with offices in Perth, London, Houston, Kuala Lumpur and Abu Dhabi, supporting a diverse industrial client-base. DUG designs, owns and operates a network of some of the largest and greenest supercomputers on Earth. The company continues to invest and innovate at the forefront of software and HPC, working towards a climate-positive future.

