



COMPANY
PROFILE



DIGITAL TWIN GEOTECHNICAL

**Integrated Data.
Informed Decisions.**

An independent layer, by design

DTG (Digital Twin Geotechnical) provides independent geotechnical monitoring, analytics and decision support for mining and infrastructure operations. We sit between your instruments and the decisions you have to defend — aligned with your operation, not any vendor's product.

Monitoring data rarely arrives ready to act on. It comes from many instruments, in different formats, at different cadences — and the movement that matters is often small, easily missed, or buried in noise. The gap is not usually more sensors; it is the independent layer that turns what those sensors measure into the handful of things that actually need a decision.

Fewer, better-evidenced decisions — and a record that stands up when it matters.

SURFACE TO UNDERGROUND, IN OPERATION

50,000+

Alarms reviewed

10,000+

Hours of monitoring coverage

500+

TARP trigger responses

950+ km

Scan & deformation-drive throughput

50

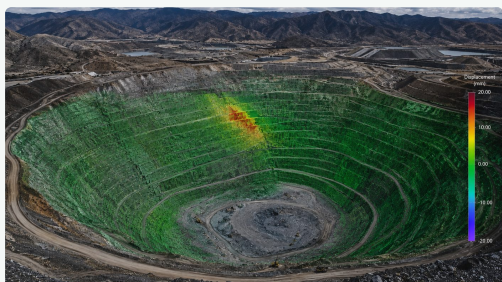
Confirmed falls of ground

24/7

Remote Monitoring Centre

Different ground, the same discipline

Every environment moves in its own way — a pit slope in shifts, a tailings embankment over years, a drive by the millimetre. Each demands a different read; the discipline behind it stays the same.

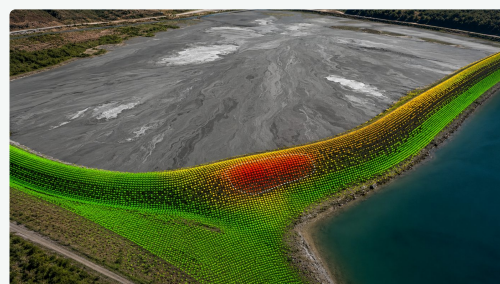


Open-pit mining

Slope movement that can build toward failure in shifts, not weeks — radar and multi-sensor coverage feeding review and escalation the moment a threshold is crossed.

Tailings storage facilities

Gradual settlement and seepage over years, where the movement that matters is small and easily missed — coverage conditioned into a reliable long-term record.



Underground mining

Convergence read by comparing scans over time across restricted, complex workings — scan and deformation-drive distance across the network.

Infrastructure & civil

Dams, slopes, tunnels and civil assets face the same question as a mine: is what moved a problem? The same independent monitoring applies above ground.





WHAT WE DO

Five capabilities, one independent layer

01 Remote monitoring

Continuous 24/7 coverage from our Remote Monitoring Centre — watching the data, reviewing alarms and escalating the movement that matters, so your team is never watching alone.

02 Reporting and back analysis

Clear, evidence-based reporting on what happened and why — turning monitoring records into the account that stands up to technical and regulatory review.

03 Technology integration

Sensor-agnostic integration of the instruments you already have — radar, InSAR, prisms, piezometers and more — into one coherent, independent view.

04 Data analytics

Noise, drift, outliers and data-quality issues identified and, where appropriate, conditioned within a traceable processed dataset. Original source data remains preserved.

05 Technical advisory

Decision support from geotechnical specialists — the independent layer between your instruments and the calls you have to make and defend.



Focused, actionable insight



DTG Focus™ takes what your site is measuring and turns it into the handful of things that actually need a decision — with the evidence already attached.

In active development, configured to each operation and continually expanded, with attention to data access, provenance and governance.

Built by the monitoring engineers who use it every day.

Technical and mining leadership

DTG is led by founders who combine deep geotechnical domain expertise with software, data and analytics engineering — the two disciplines the independent layer depends on.

Peter Saunders

FOUNDER / DIRECTOR · BRISBANE

A leading expert in slope stability radar and multi-sensor monitoring, with 20+ years in open-cut and underground hard-rock geomechanics and international monitoring leadership across large-scale operations.

QUALIFICATIONS

RPEQ · CP (Geotech)
MEngSc Mining Geomechanics
BSc Exploration Geophysics & Geology

FOCUS

Slope stability radar
Multi-sensor monitoring
Mine geomechanics

EXPERIENCE

20+ years

Mark Burdett

FOUNDER / DIRECTOR · PERTH

A structural geologist bridging ore-deposit understanding with applied geotechnical solutions, with 25+ years spanning economic geology, civil engineering and rock mass characterisation.

QUALIFICATIONS

MSc Economic Geology
MSc Civil Engineering
BSc Geology (First Class Hons)

FOCUS

Structural geology
Rock mass characterisation
3D fault modelling

EXPERIENCE

25+ years



COMPANY PROFILE

START A MONITORING CONVERSATION

Integrated Data. Informed Decisions.

Open pits, tailings, underground or civil infrastructure — wherever the ground moves and the decision has to be defended, DTG is the independent layer between your instruments and that call.

CONTACT

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