

GSCAN

Deep non-destructive inspection for critical infrastructure

Muon Flux Tomography reveals what is happening several metres inside reinforced structures

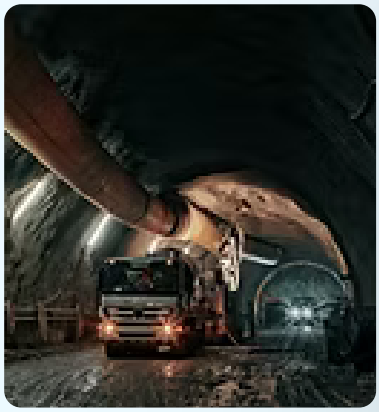
Half Joint As-Built Analysis
Post Tensioning Anomaly Detection



Bridges

Ready to order for in-service bridge inspection

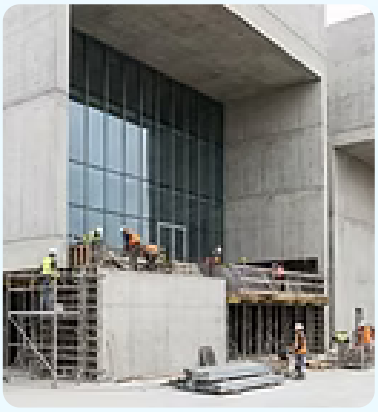
GScan's MFT helps save millions on bridge repairs and extends the service life of infrastructure assets.



Tunnels

Subsurface imaging for tunnel construction and monitoring

Detect density anomalies or other objects inside large structures such as tunnels, mines, and dams with our large-area detectors.



Buildings

Non-destructive testing of large buildings

Conduct detailed as-built visualization, ensure quality of new builds and detect defects in large reinforced concrete buildings.

Scan anything

GScan analyses natural muon particles passing through solid structures

Safe and passive

Muon tomography relies on natural cosmic particles, so it is safe for operators, the public and the structure itself.

Cut renovation costs

Accurate data lets owners maintain only what needs maintaining, which avoids unnecessary reconstruction and lowers cost.

Minimal traffic disruption

Inspections run passively on in-service assets and fit around your schedule, with little disruption to traffic or the public.

State of the art GScan Muon Detectors



Muon Tomography System XL Detector Module

Case Dimension: 2258 x 1210 x 379mm
Active Area: 2048 x 1023mm
Unit Weight: 230kg
Power Supply: 230AC, 50Hz
Power Connection: CEE plug 16A, 3P, 6h, IP67
IP Rating: IP54

See inside structures. Act on certainty.

MFT fills a long-standing gap in non-destructive testing. It is a safe, passive way to find structural problems several metres below the surface, giving engineers the evidence they need to make difficult decisions while keeping repair costs and environmental impact down.

Typical Bridge Deck Scan
Mount on top and below Bridge





Tunnel Scan
Soil density measurement



Detect everything

See the internal conditions of infrastructure assets like never before

Deep & accurate detection

Finds voids, tendon breaks and rebar defects several metres deep in reinforced concrete, well beyond the reach of conventional NDT.

Your data in our platform

Explore your scan results, run your own analysis and review our ML-driven insights, all in one place.

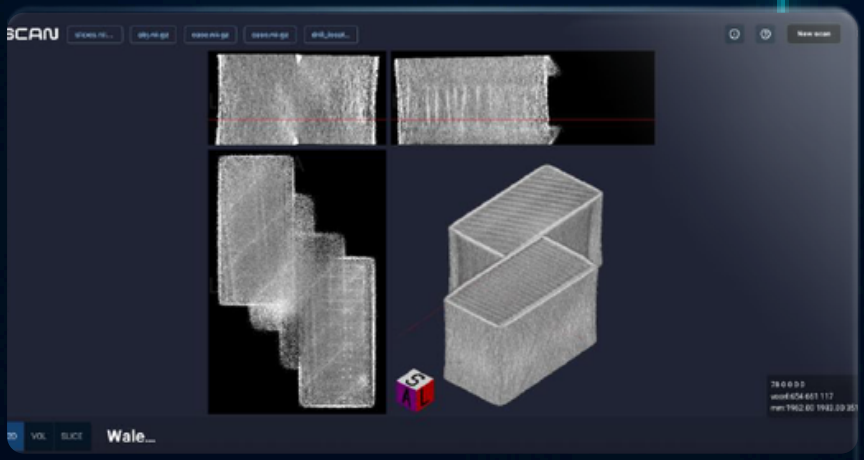
Millimetre precision

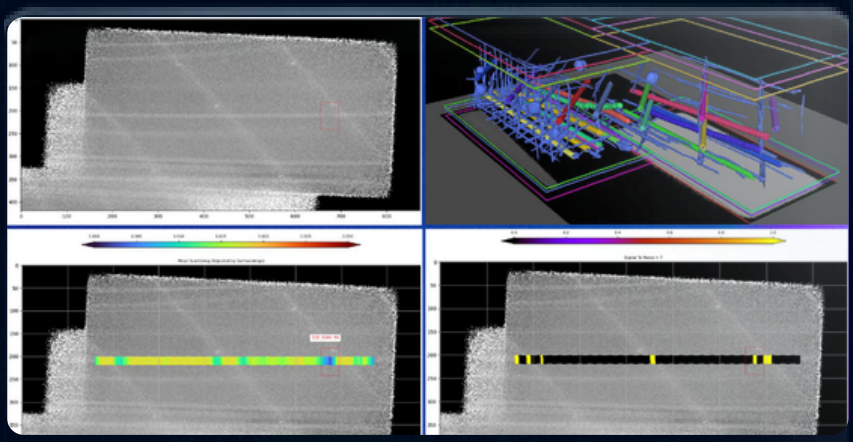
High-resolution reconstruction resolves features down to 3 mm, so you know not just that something is there, but exactly where.

Where your scan data becomes actionable insight

Once your team has run a scan, our proprietary ML models process the raw data and surface what matters. The results land in your GScan workspace, where your engineers can explore the data, run their own analysis and review the insights.

- **Explore the raw scan data.** View the full 3D reconstruction of your asset and slice through it at any depth. The data behind every finding is there for you to check.
- **Run your own analysis.** Measure, annotate and compare regions of interest. Build the case for a maintenance decision using your own engineering judgement, on top of the data.
- **See where the ML is looking.** Our ML algorithms generate precise models of the internal structure of your asset - giving you the information you need to assess confidently.
- **Share it with your team.** Bring colleagues and clients into the same workspace, so everyone reviews the same evidence rather than passing files around.

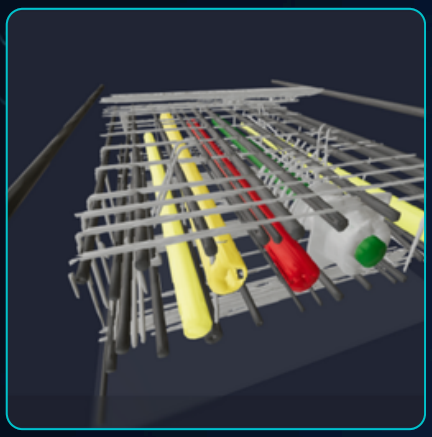




GScan UI platform

- Cloud based service
- Detector Management
- Structural Investigation
- Measurement & Annotations
- Data Export
- Workspace Management

Listen to our clients



"From scanning submarines to saving millions on bridge repairs, this isn't just tech—it's a gamechanger for science, strategy, and sustainability."
- **AtkinsRéalis**

"Results show that muon tomography provided the most information compared to the other two methods (GPR and ultrasonic)."
- **Bundesanstalt für Materialforschung und -prüfung (BAM)**





"What GScan can produce is truly impressive, this technology will be game-changing."
- **Balvac**

Contact us with your structural challenge

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