



The Future of Gravity Sensing Starts Here.

NSTA Technology Showcase on Carbon Storage MMV

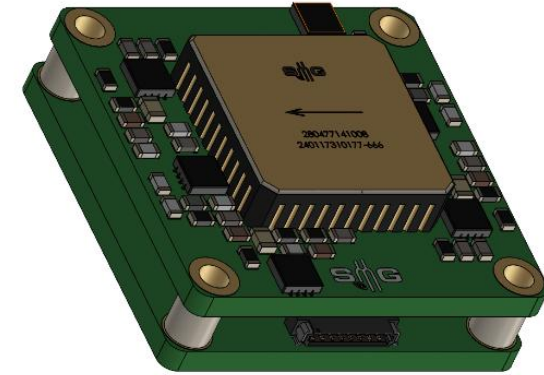
EAGE Annual conference
Aberdeen Monday 8th June 2026

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SMG Company Overview

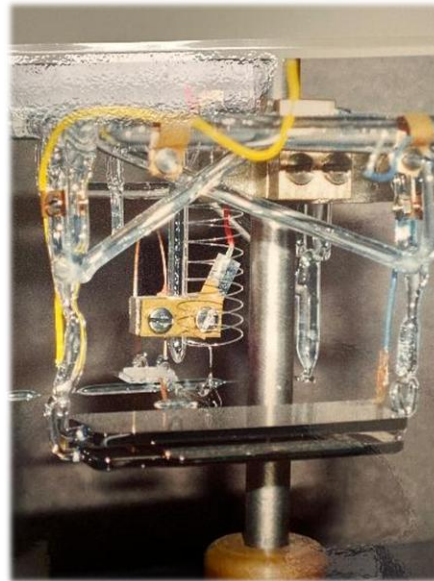
- Cambridge University spin-out
- World-leading in Resonant MEMS
- Proprietary technology Patent protected
- First sales 2025



A Step Change in Gravity Technology

Existing gravity systems:

- Fragile
- Large
- Costly
- Individually made
- Highly optimised
- 8,000 mGal range
- Sensitive to tilt strain



SMG MEMS gravity sensors are:

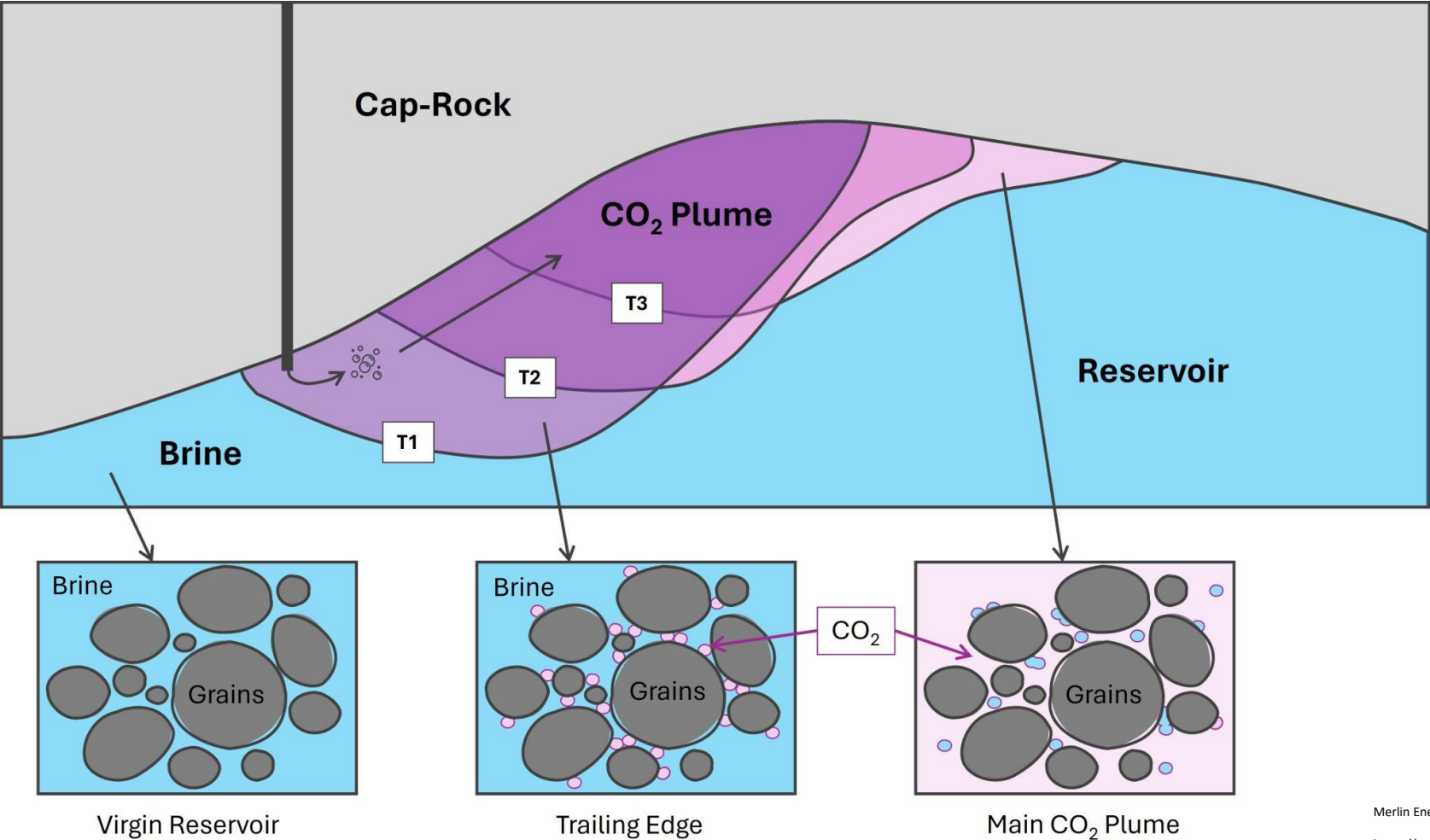
- ✓ Robust
- ✓ Compact & Lightweight
- ✓ Volume manufactured
- ✓ Batch produced
- ✓ $\pm 2,000$ Gal (2g) range
- ✓ No tilt strain
- ✓ Rapidly evolving



GAIA-FIELD: Developed for field use



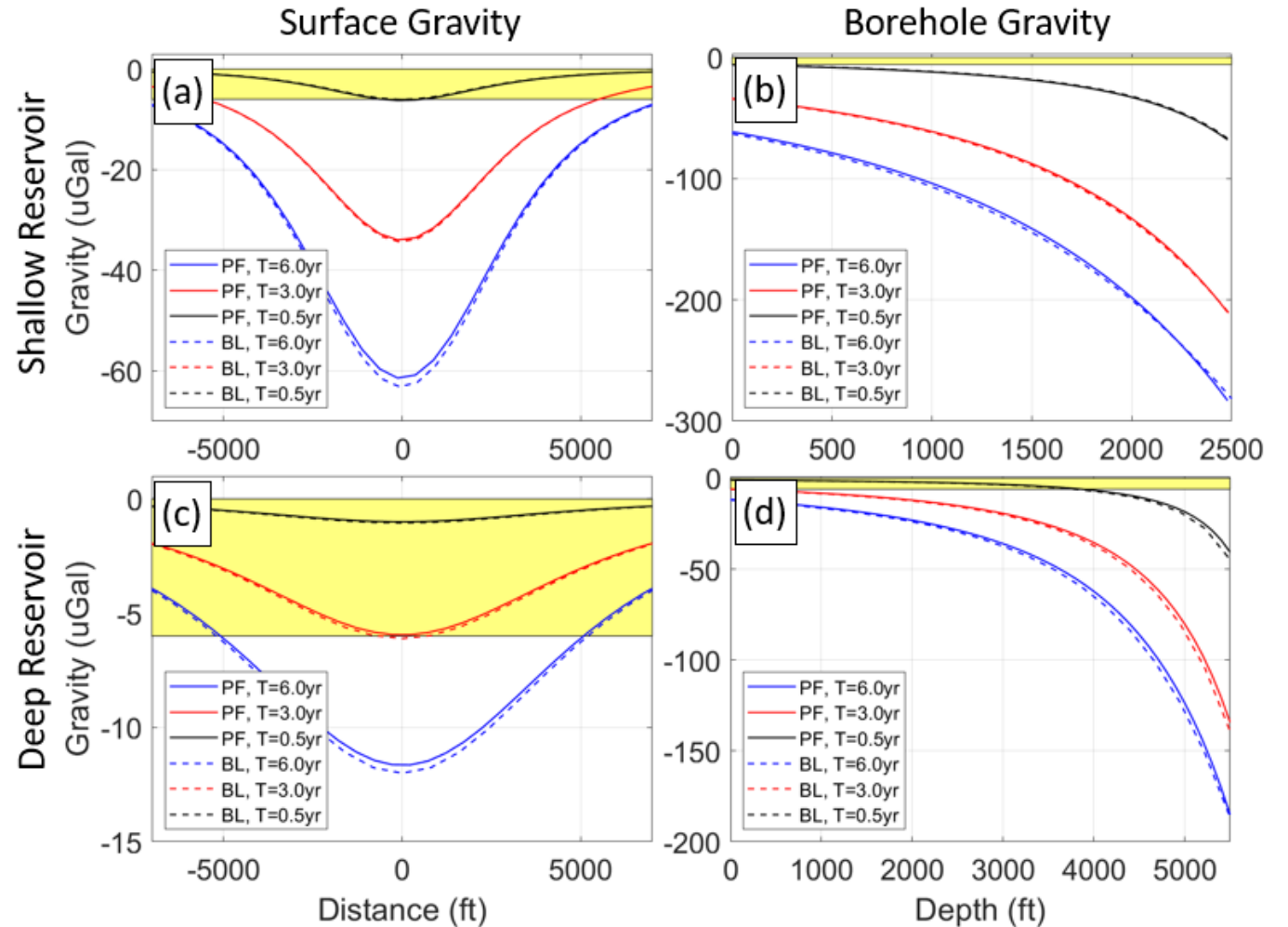
CO2 Storage



Merlin Energy Resources Ltd, Redrawn from Hefny et al., (2020)
<https://www.merlinenergy.co.uk/series-navigating-carbon-dioxide-plume-flow-in-the-subsurface-a-reservoir-engineers-perspective-3/>

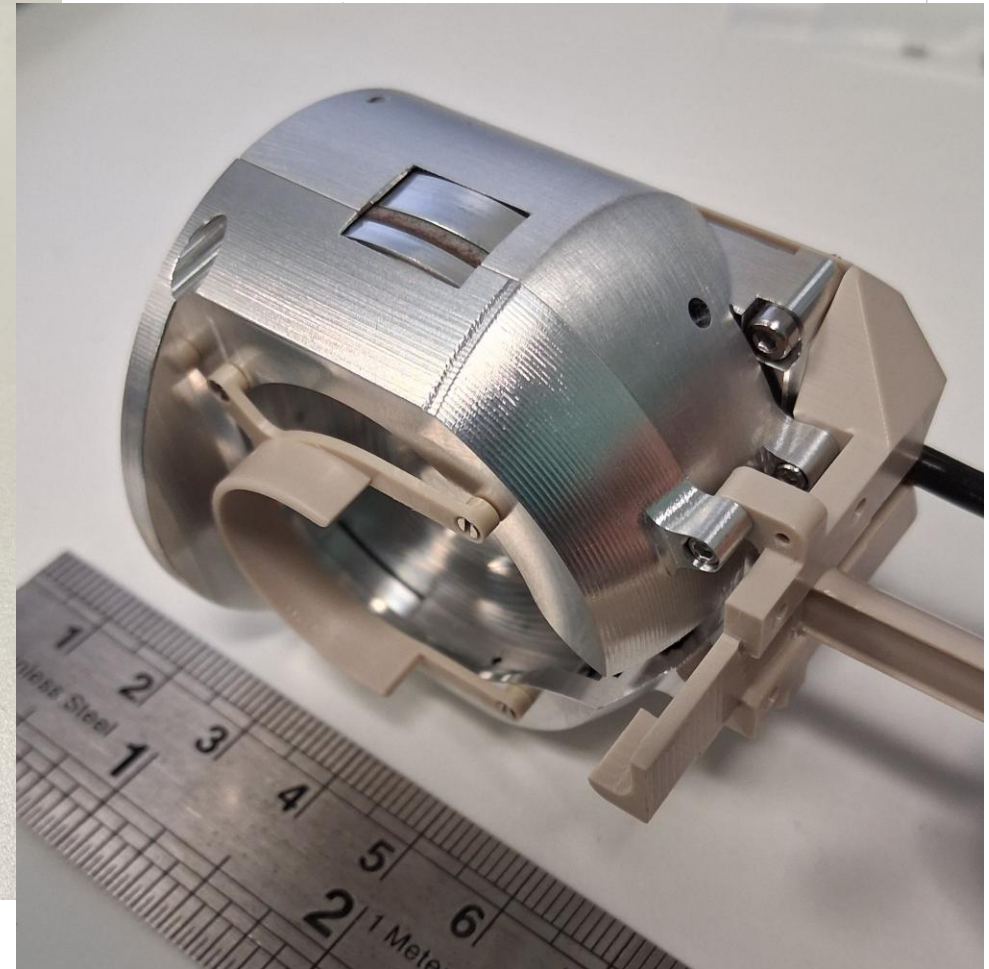
Surface vs Borehole

- Provides additional constraints
- Cost effective
- Borehole gravity independent of reservoir depth

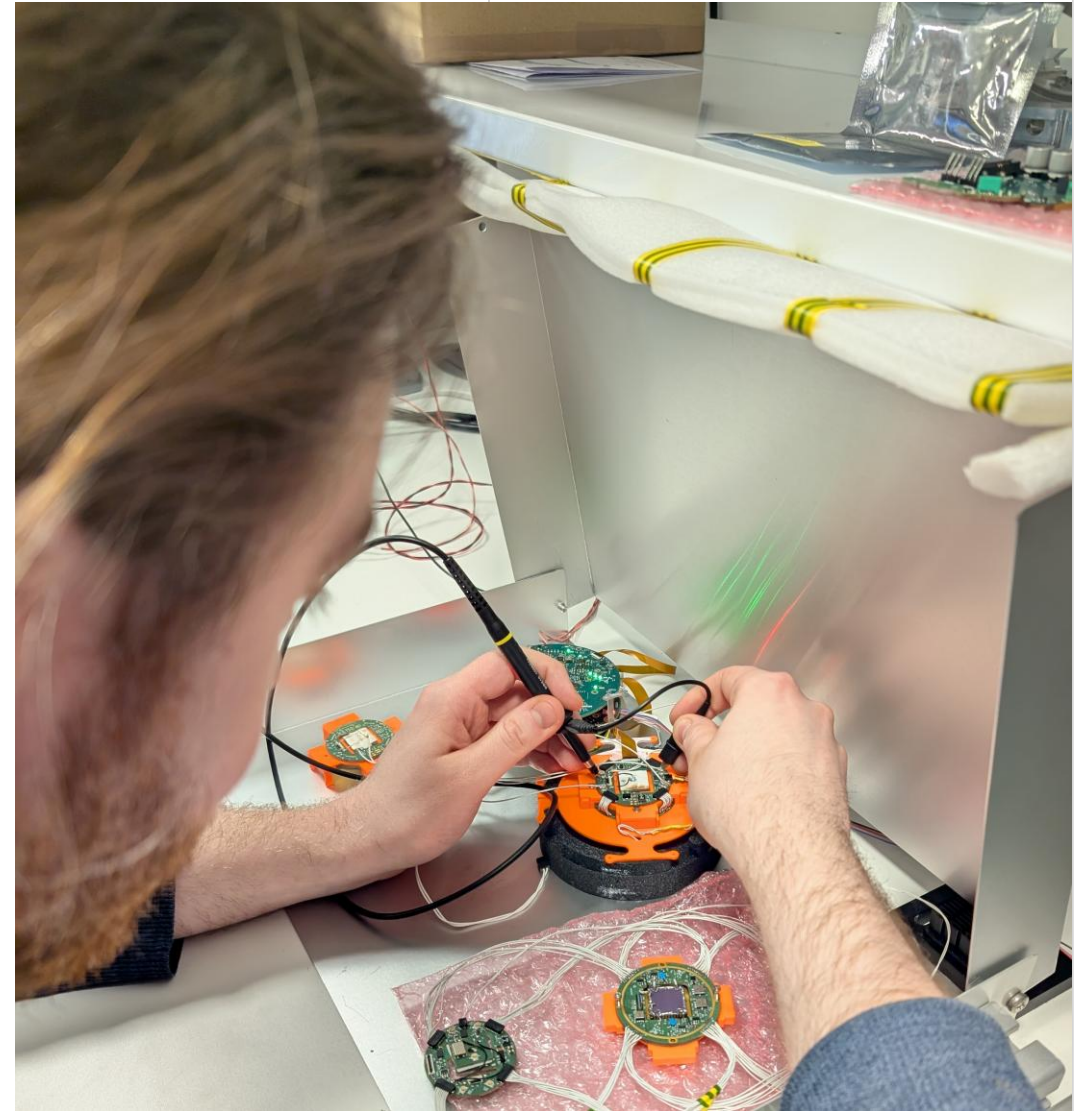
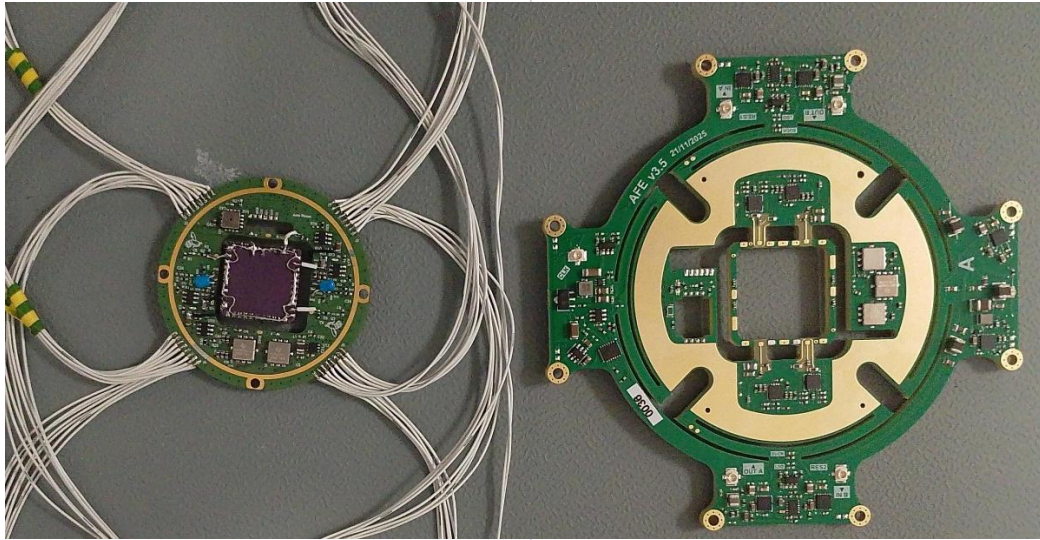


Current Borehole Project

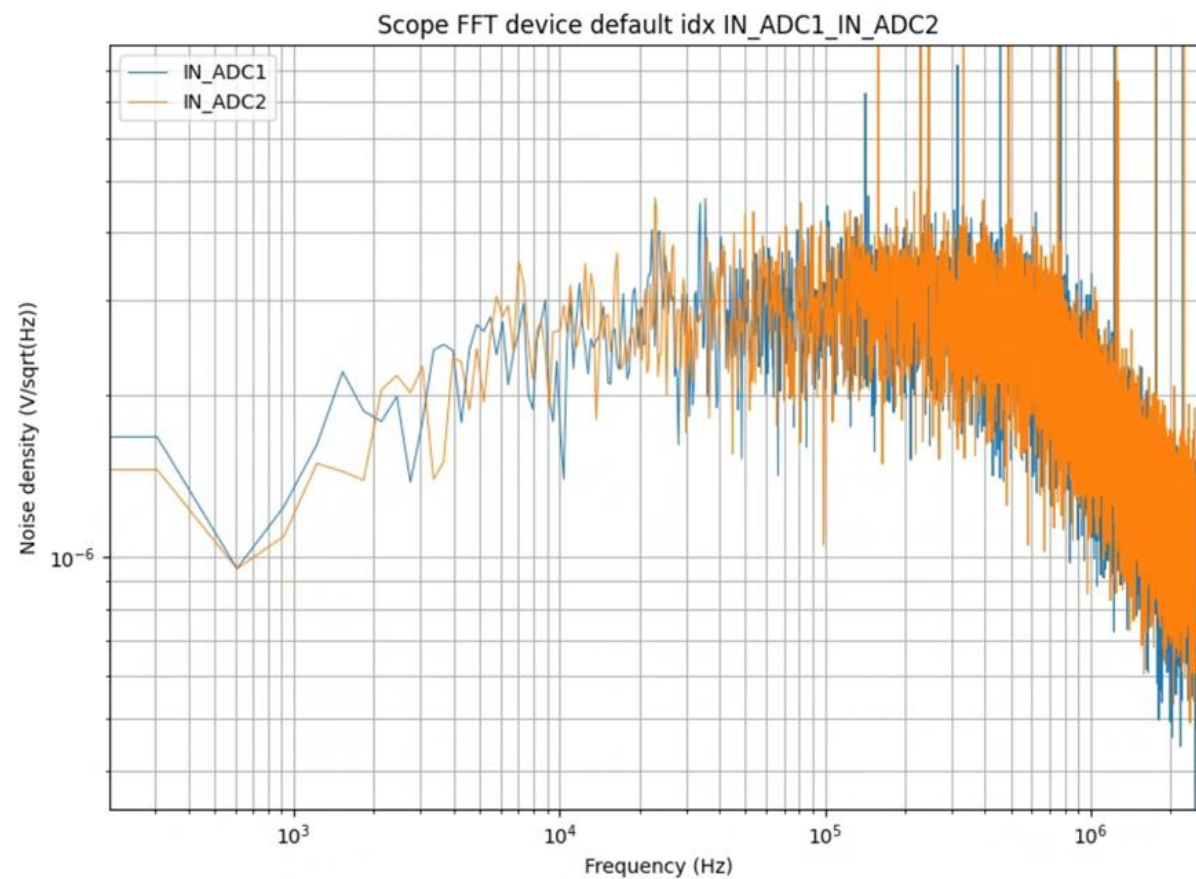
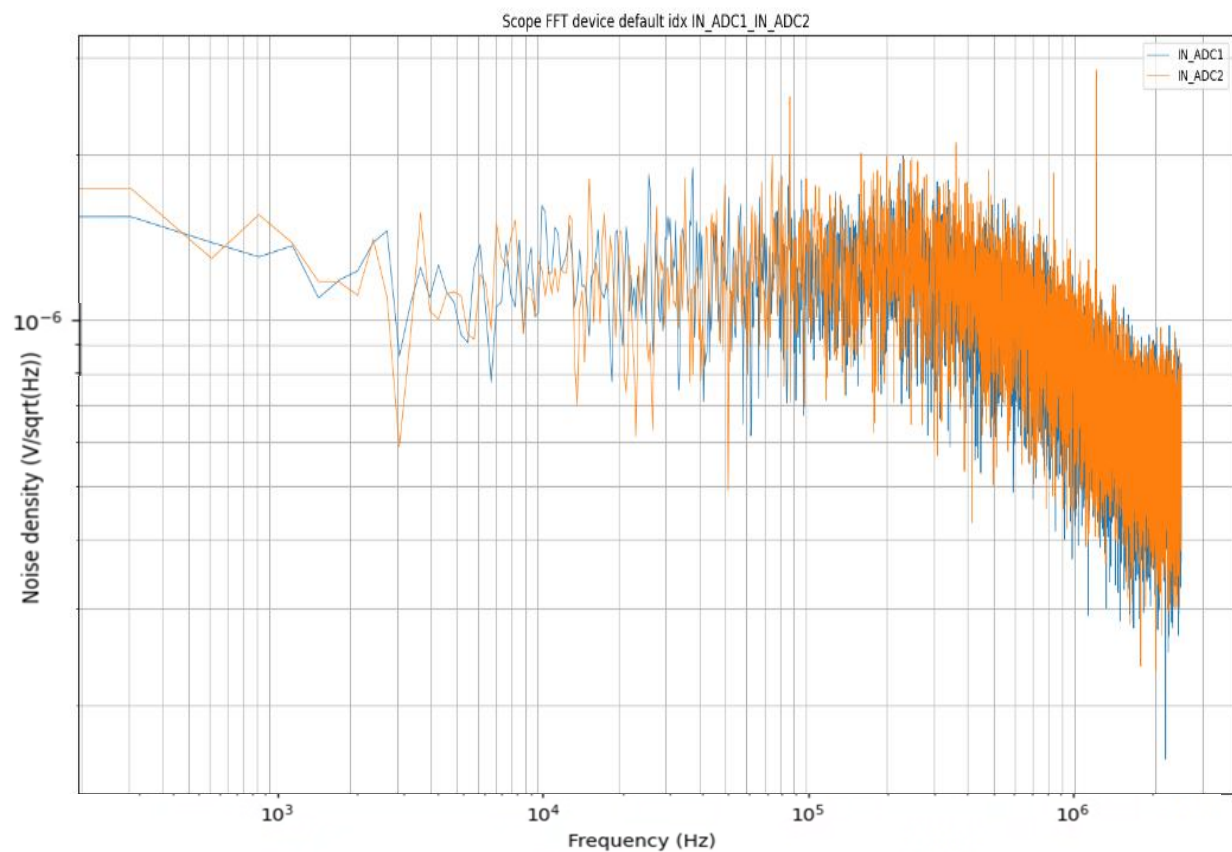
- Single axis Gz
- 5 μ Gal resolution
- Sensor 5cm
- 74mm tool OD
- Sub 1cm depth accuracy



Build and test ongoing



System improvements



20% improvement in white noise in new system

Phase 1 in progress

- Part funded by Major IOC
- Field trials in Q4 2026

Phase 2 development

- Directional gravity gradiometer
- Increased operating range



Low Cost CO2 Storage Monitoring

