



Unlock
PREDICTIVE MAINTENANCE
for CCS

**GREEN
SAND**



EUDP O



Funded by
the European Union



MMV: CCS operators adopt a **LEAN** approach

Reservoir-driven

O&G expertise
Legacy data, subsurface
and operational
knowledge

Breaking the silos

Cross disciplinary G&G,
engineering, compliance,
regulatory & integrated team

Carefully designed

Business synergies
Operational synergies
Optimization



Safe

Robust

Efficient

**Sustainable
MMV**



Detection results

Spot seismic
survey design
& operational
model

QC and support
to acquisition

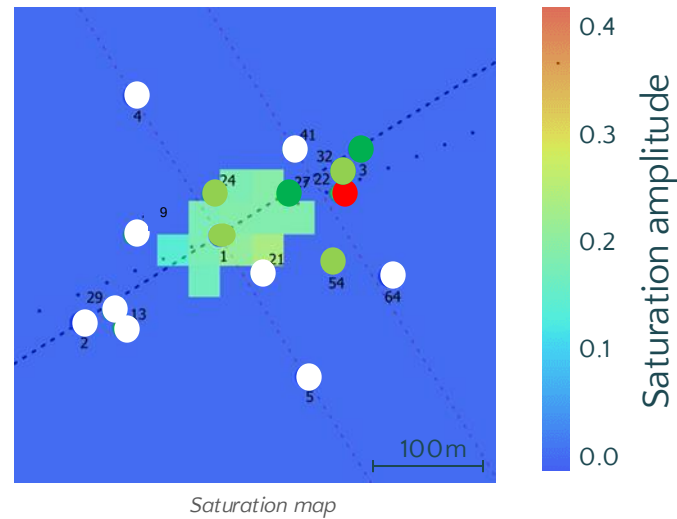
Spot seismic
processing and
results

 A North-East trend of the CO₂ plume is detected

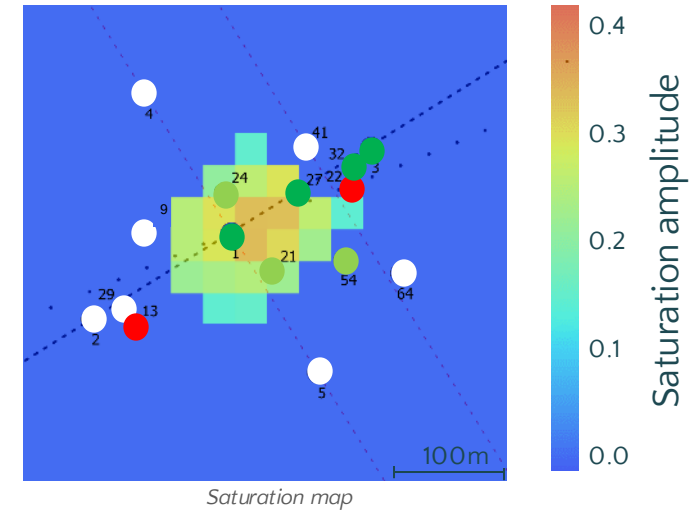
Acquisition
last winter

TGS

Monitor 1



Monitor 2



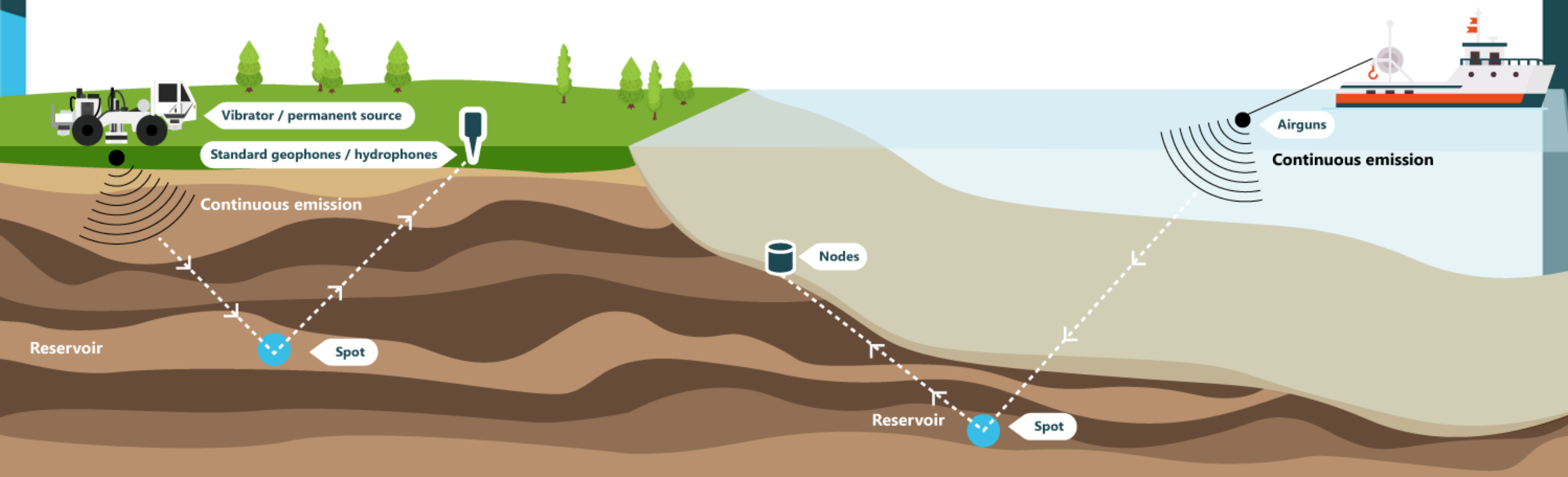
-  Subtle CO₂ effect detected
-  CO₂ effect detected
-  No effect detected
-  Data quality issue*

*reported on one antenna due to
short offset and surface noise



Spot **seismic** base principle

One seismic source and one seismic receiver only per spot to detect CO₂ at specific location in the subsurface





Perenco CCS

Injection Test MMV

Seismic Acquisition

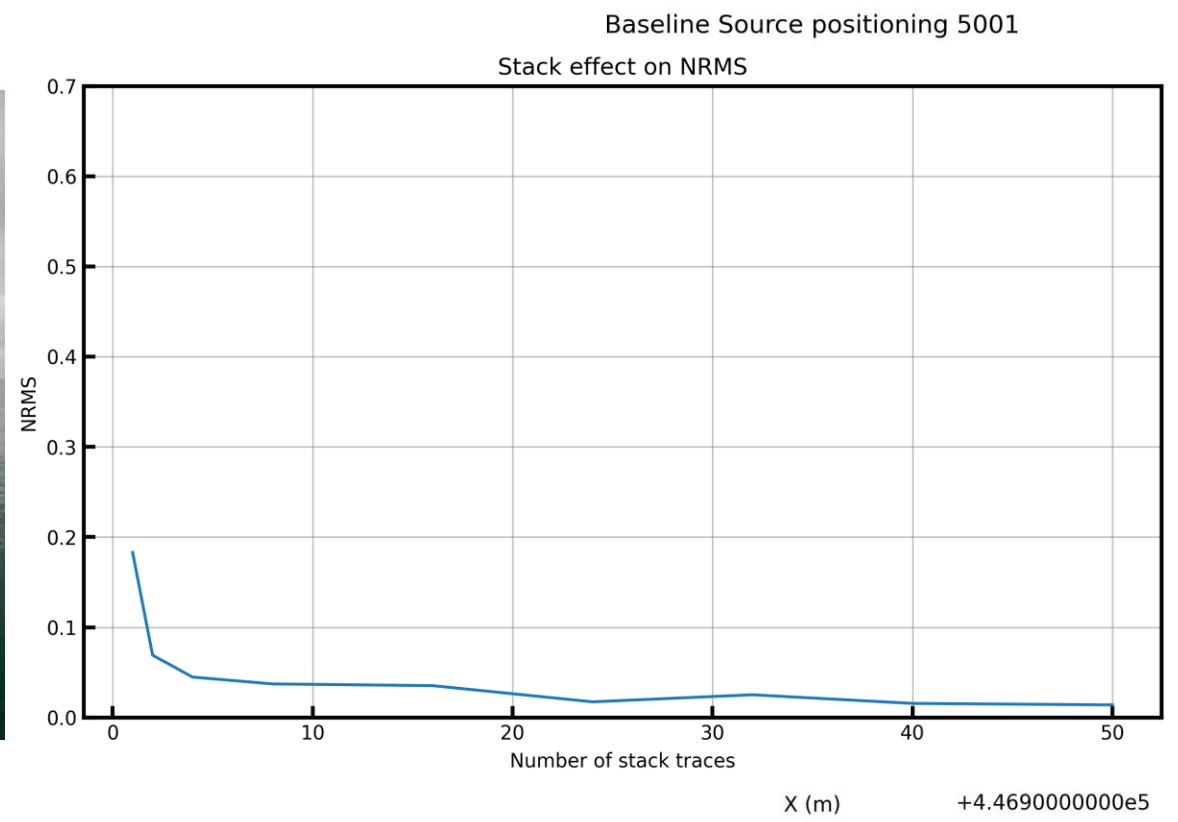
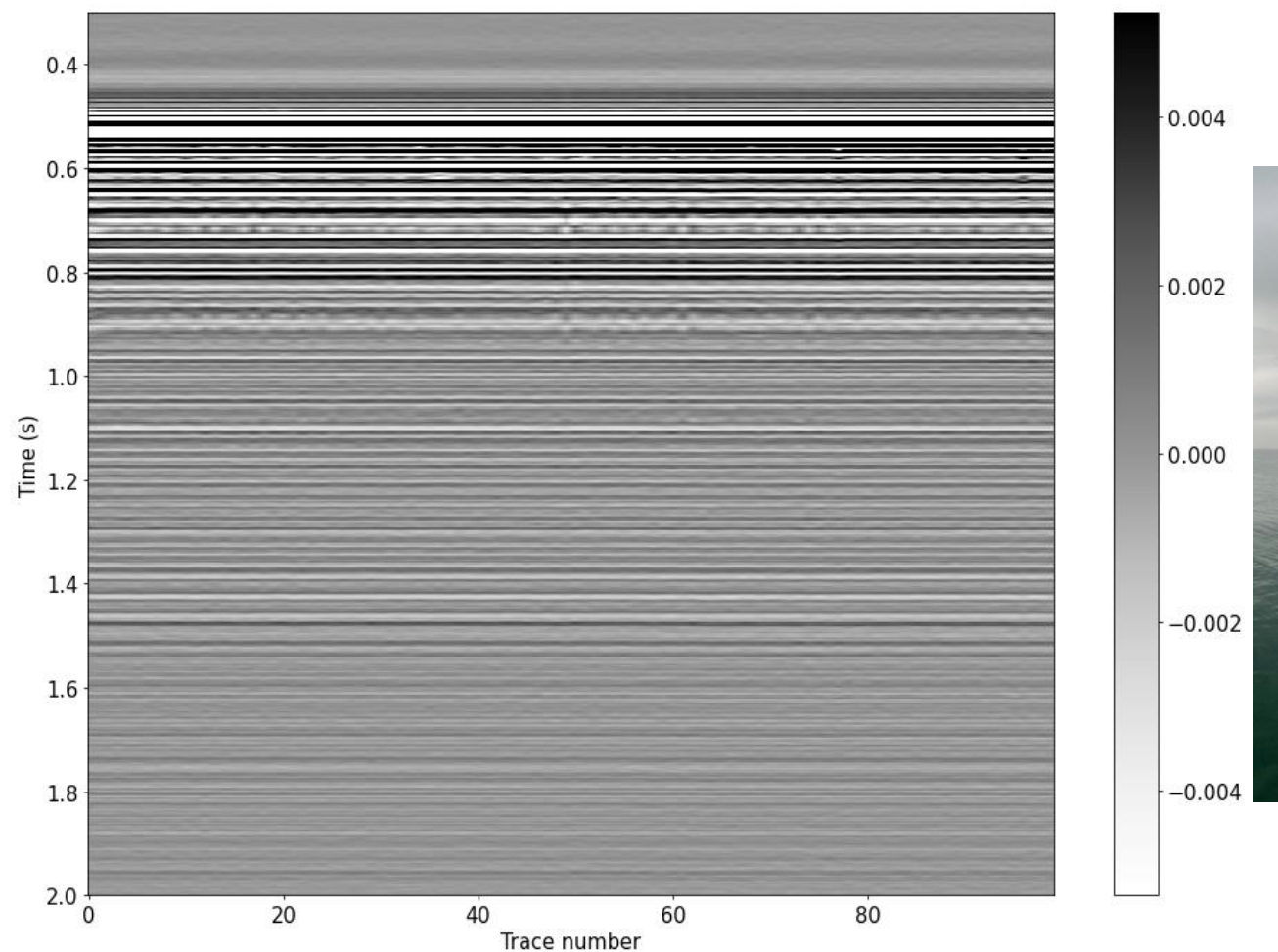
Carbon
Catalyst



PERENCO



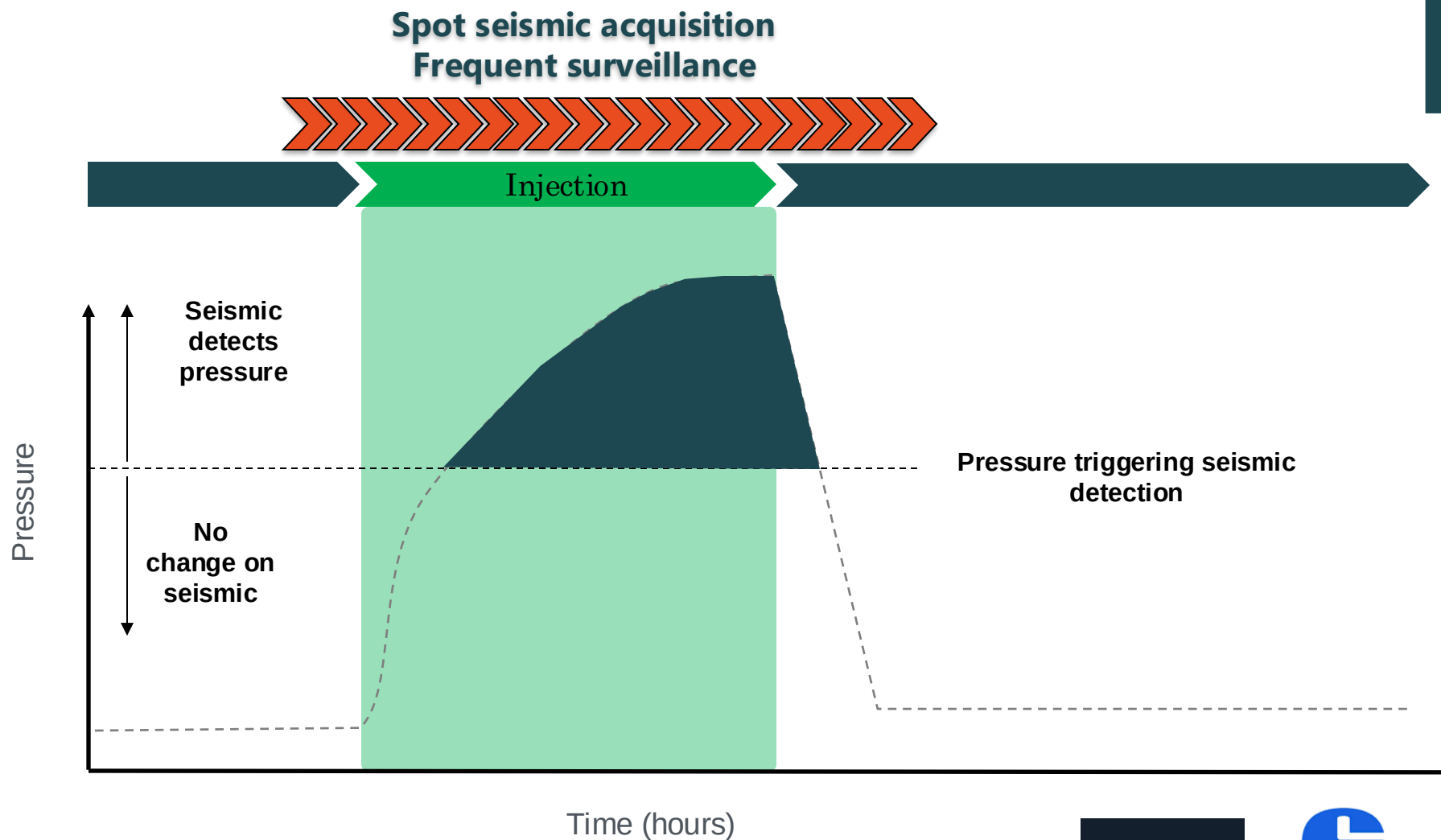
A Major Player for Net Zero in the UK





'The Pressure Problem' for depleted fields

Acquisition
ONGOING



October 29th, 2024 – Proven and ongoing CCS monitoring

VS Prowess
Specialists in borehole seismic processing





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