

Elevate your reservoir monitoring

with intelligent monitoring design for CCS

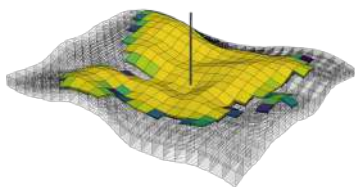
Monitoring geological CO₂ storage is complex, costly, and often based on expert judgment rather than measurable value.

Storra offers the first quantitative platform that designs optimal and defensible monitoring strategies. We help operators choose effective technologies, sensor placements, and campaign schedules that minimise risk and reduce cost.

Contact us today to get the most out of your monitoring plan

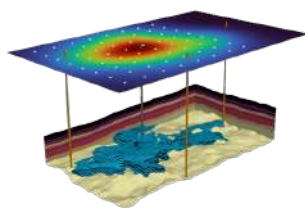


Ensemble Reservoir Modelling



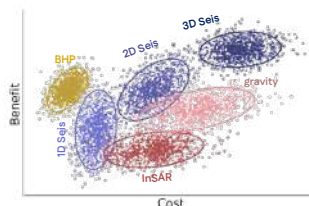
We generate 1000's of reservoir scenarios and simulate the evolution of the CO₂ & pressure plume to quantify risk

Monitoring Detectability Forecasting



We forecast the detectability of the reservoir response with geophysical and geomechanical simulations

Value-of-Information Analysis



We evaluate millions of monitoring actions to optimise your MMV plan and quantify the added value of monitoring

Benefits



Improve Return on Investment: Expose storage capacity and reduce OPEX & CAPEX by revealing reservoir behaviour and eliminating redundant measurements



Reduce Risk: Quantify conformance & containment risk and guide monitoring to maximise risk reduction



Build Trust: Assure stakeholders and accelerate regulatory approval through transparent, quantified insights on monitoring effectiveness.

Features

Static modelling

- Automated ensemble generation
- Sampling of uncertainty in
 - Structural features
 - Petrophysical properties
 - Initial & boundary conditions

Monitoring forecasting

- Time-lapse seismic
 - 1D/2D/3D acoustic-elastic simulator
 - 1D semi-analytical surrogate
- Deformation (GPS, DSS, InSAR, tilt)
 - 1D/2D/3D elastic simulator
 - 3D semi-analytical surrogate
- Time-lapse gravity
 - 3D semi-analytical surrogate

Dynamic modelling

- Coupled 3D reservoir & geomechanics simulations
- Fast surrogates for reservoir & geomechanical simulation

Quantitative Monitoring Design

- Monitoring technology screening & appraisal
- Monitoring value-of-information analysis
- Quantitative MMV evaluation & optimisation
- Ensemble risk quantification & analysis

Visit our Website



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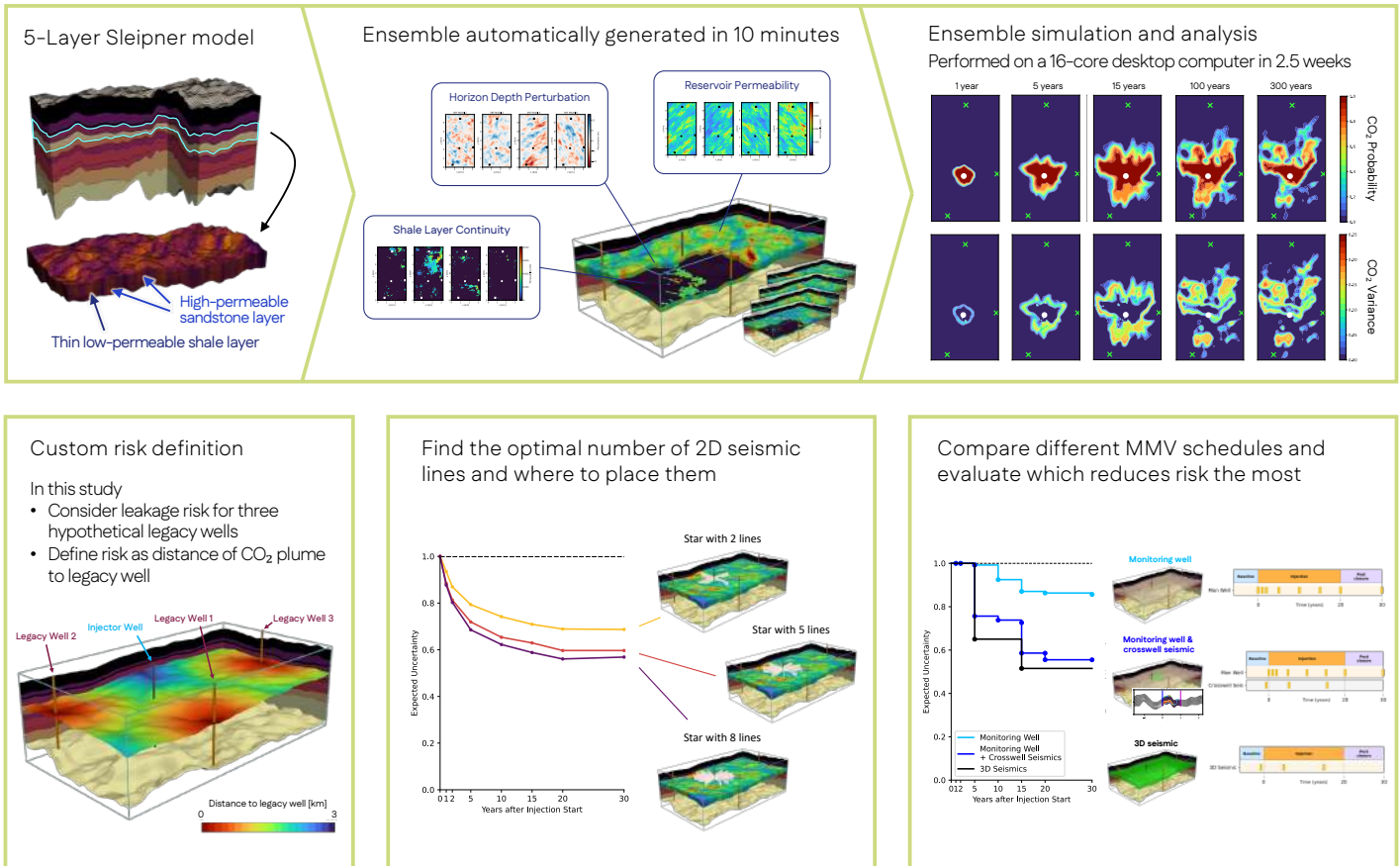
Contact us

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Case Study

Application of the Storra Monitoring Designer to the Sleipner storage site using 1400+ realisations



Project

Storra's technology is being applied in active CO₂ storage pilots and research initiatives to optimise monitoring design, evaluate storage integrity, and accelerate regulatory approval.

CITru Injection Pilot, Zürich Switzerland

CITru



The pilot and demonstration project CITru (CO₂ pilot injection in Trüllikon), led by ETH Zurich, is investigating the feasibility of a CO₂ injection test through a disused borehole.

Storra's performs the risk assessment and monitoring design & optimisation for CITru.



About us



CEO

Dr. Edoardo Pezzulli

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Edoardo leads the business development at Storra and designs geomechanical workflows for assessing storage integrity and deformation monitoring.

He holds a PhD in computational geomechanics from ETH Zurich.



CTO

Dr. Michael Liem

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Michael leads the development of computational workflows for reservoir simulation, uncertainty quantification and monitoring optimisation at Storra.

He holds a PhD in reservoir modelling and data assimilation from ETH Zurich.

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