

We understand that there are a lot of questions that come with your CCUS projects and you need to determine how best to assess the feasibility and success that a project may have. With tNavigator's integrated approach, we allow geoscience and engineering teams to collaborate more closely and leverage their individual expertise to achieve a robust understanding of their CO2 storage projects to help answer these questions.





Static Modelling

From grid construction to seismic well tie and domain conversion to structural and property modelling -tNavigator's Geology Designer is primed and ready to help you build your geological model and assess your storage capacity and risk in your CCUS projects.

Fully Implicit

tNavigator uses a joint system of coupled equations to calculate reservoir fluid flow and geomechanical effects simultaneously. Our coupled geomechanics allows you to accurately model caprock failure and evaluate risks during CCS location screening process

Integrated Asset Modelling

tNavigator offers a powerful engineering tool for field development planning and optimization, allowing you to incorporate all elements of the field (reservoir, wells, and surface facilities) into one project and calculate the system of equations fully implicitly.

Trapping Mechanisms

Model all major CCUS mechanisms within tNavigator, and assess the contribution of each over time.

Structural trapping with geomechanics:

Model free movement of buoyant CO2 trapped by caprock

Residual saturation trapping:

Model CO2 trapped in pores due to capillary pressure

Dissolution trapping: Model CO2 dissolved in saline fluid

Mineralization trapping:

Model how saline fluid containing dissolved CO2 reacts with surrounding rock and mineralizes

About Us

tNavigator, developed by Rock Flow Dynamics, is a one-stop comprehensive reservoir management solution that leverages modern computing architecture to deliver superior speed, scalability & ease-of-use for integrated static and dynamic modelling from reservoir to surface networks. Promoting cross domain collaboration, tNavigator is a single environment that enables subsurface teams to work together to navigate your reservoir and not lose any time or data by moving between applications. In tNavigator you will find unique integrated workflows from geophysics to reservoir modelling, allowing geoscientists to construct a robust interpretation and reservoir model of their field. In the same interface, models can then be instantly carried forward to reservoir simulation, allowing for thorough analysis and evaluation of the field, and for your team to make informed decisions on your assets.

DNE ASSET



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