ABOUT US

Rock Flow Dynamics' flagship product tNavigator is a state-of-the-art reservoir modelling and simulation platform, offering advanced technologies to enable companies to reach their energy mix goals.

tNavigator provides a wide range of advanced innovative tools for geoscience, reservoir and production engineering disciplines. This allows users to create integrated workflows from reservoir static and dynamic modelling to surface networks and uncertainty quantification in one interface, utilising embedded AI and automation to enhance performance.

Integration is at the heart of our technology; we believe that by keeping data and knowledge in a single platform, performance and efficiency is increased, allowing you to undertake a deeper analysis of your field and make more informed, confident decisions.

tNavigator's development is continuous, defined by our users' needs and the latest industry trends. We offer an experienced team of worldwide specialists, 24/7 client support and four major updates to our technology every year.

tNavigator® Rock Flow Dynamics

EUROPEAN LOCATIONS

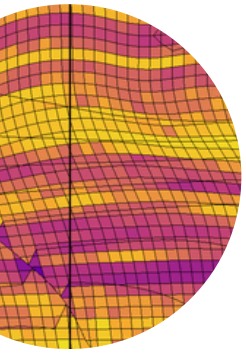
Aberdeen | London | Stavanger | Belgrade
Madrid | Berlin | Zagreb | Vienna | Budapest
www.rfdyn.com

tNavigator® Rock Flow Dynamics

GEOTHERMAL

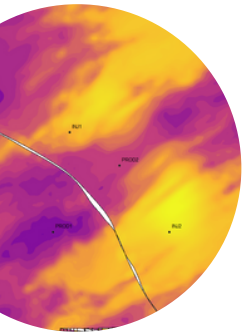
Gain valuable insight of your Geothermal projects with tNavigator.

RFDYN.COM



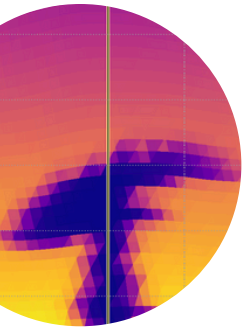
INTEGRATED GEOMECHANICS

Couple the reservoir with geomechanics fully implicitly and calculate together in the same system of equations.



INTELLIGENT GEOSCIENCE

Make informed reservoir decisions by incorporating geology into every step of the modelling process with our integrated G&G solution.



NAVIGATING UNCERTAINTY

Make confident decisions and understand both static & dynamic uncertainties using a range of algorithms and integrated workflows

GEOTHERMAL MODELLING SPEED MEETS PRECISION

Streamlining geothermal and lithium extraction workflows with advanced reservoir modelling and fluid flow simulation for unparalleled project optimisation.

SIMULATING LITHIUM BRINE EXTRACTION

Track subsurface behaviour and improve simulations like never before with our advanced suite of analysis and visualisation tools. Accelerated by parallel technology that takes full advantage of multi-core CPU & GPU processing units, for powerful performance.

tNavigator®

FOR GEOTHERMAL

Gain valuable insight of your Geothermal projects and understand the characteristics of your reservoir to better aid decision making, using tNavigator's innovative approaches to model geothermal processes.

The first approach integrates temperature considerations into the conventional Black Oil physics simulator. This enables the calculation of heat exchange between the reservoir and its environment, as well as temperature fluctuations within the saturation table. Additionally, it facilitates the determination of heat capacity for blocks with zero pore volume.

The second option available is to simulate property changes due to geothermal processes in a compositional and thermal model. Beyond the capabilities of the Black Oil option, this method accommodates the modeling of multi-component water, enthalpy fluctuations in response to pressure and temperature changes, as well as the thermal conductivity of grid blocks. Furthermore, it allows for fluid viscosity adjustments based on temperature shifts.