

VIRIDIEN

GEOSIM



SEE THINGS DIFFERENTLY

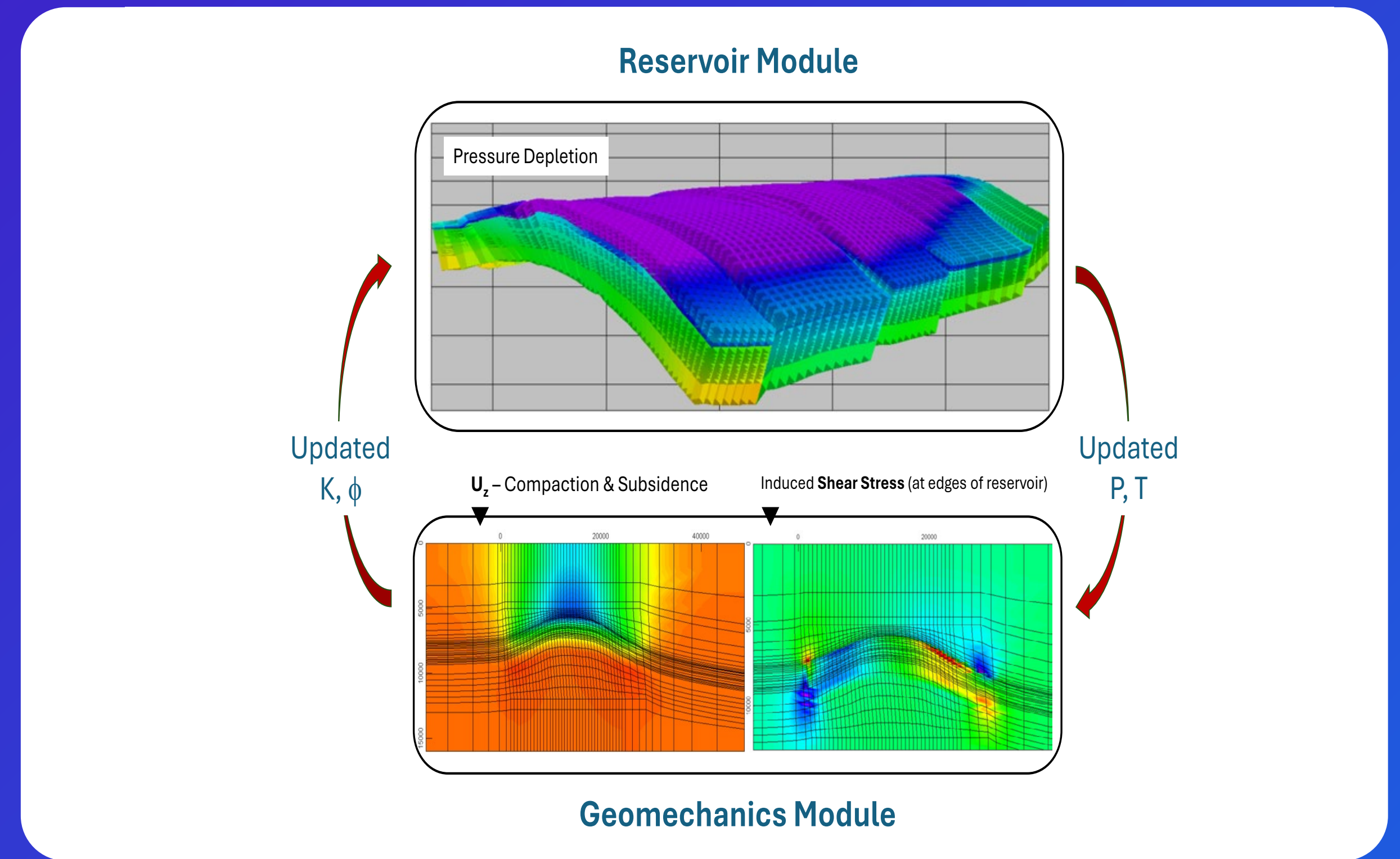
OVERVIEW

SEE THE WHOLE SUBSURFACE PICTURE

Trusted by industry leaders for geo-energy modeling and simulation, GEOSIM software brings together reservoir engineers and geoscientists to review all critical subsurface processes in one flexible, multi-scale physics-consistent platform.

By integrating reservoir flow, geomechanics, fracturing, and formation damage analysis, GEOSIM software enables a holistic understanding of the potentially complex interplay of these factors for a well, or an entire field.

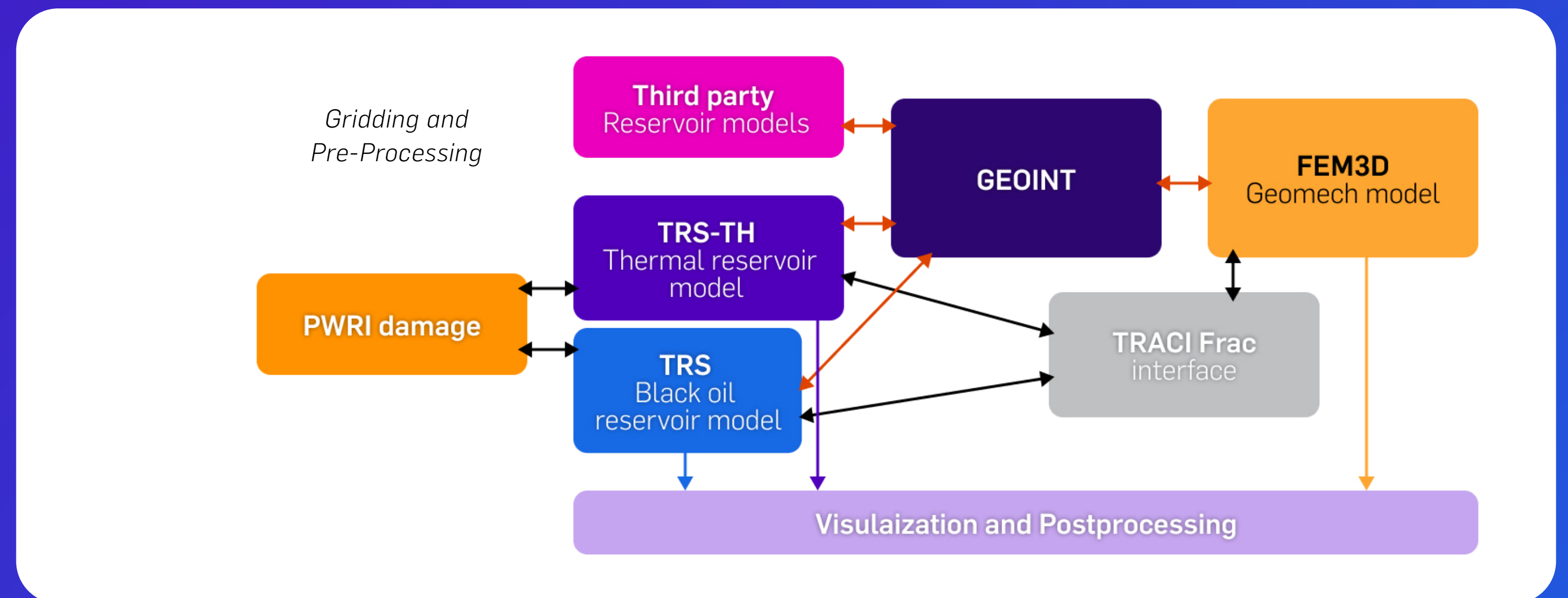
GEOSIM delivers actionable intelligence at every stage of the asset, with a track record of success in optimizing full-field geomechanics, waterflood optimization, PWRI and waste injection, hydraulic and thermal fracturing design, fault reactivation, wellbore stability, sand production, and CO₂ storage integrity.



INTERACTIVE WORKFLOW

MODULAR ARCHITECTURE THAT ADAPTS TO YOUR OBJECTIVE

At the core of GEOSIM is a modular software architecture. Engineers and geoscientists can configure only the components required for their specific problem, whether a rapid screening study or a fully coupled, high-fidelity field simulation. GEOSIM integrates reservoir simulation, geomechanics, fracture modeling, and damage mechanics into a single, consistent workflow, while remaining open to third-party simulators.



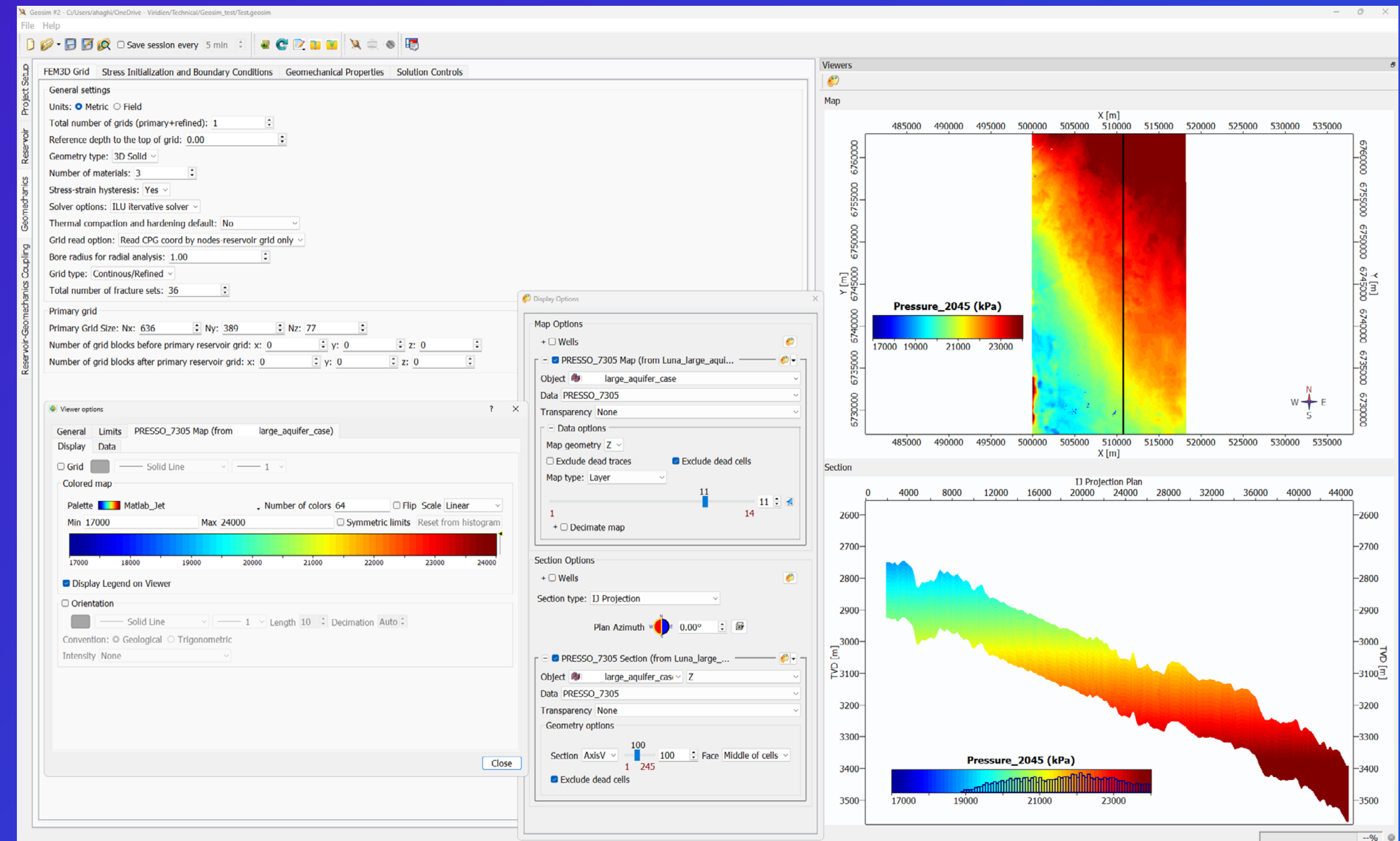
Click on the  symbol for more information on each module

USER INTERFACE

INTUITIVE, GUIDED WORKFLOWS, FROM SETUP TO SIMULATION IN MINUTES

The GEOSIM Launcher streamlines project creation, input preparation, and high-performance computing (HPC) execution. From a single interface, the GEOSIM Launcher automatically generates all required simulation inputs, including the reservoir model, the geomechanical model, and the coupling interface files.

Built-in defaults, validation, and visualization tools reduce errors and speed up iterations so you can focus on interpretation and decision-making, not file management.



CONTACT US

GEOSIM unifies reservoir flow, geomechanics, and fracture behavior into one physics-consistent platform, built to capture the tightly coupled processes that define modern subsurface challenges. Its modular architecture and flexible coupling options let you scale from rapid screening to fully integrated, high-fidelity simulations.

Connect with us to explore how GEOSIM can support your next reservoir or geomechanical project.

@ Connect with us

