PRODUCT SHEET

FracaFlow®
Fracture Characterization & Modeling Reservoirs

Benefiting from 15 years of research work and numerous success stories, FracaFlow is the most advanced package for fractured reservoir characterization, modeling and calibration available on the market.

Unmatched characterization capabilities

FracaFlow® is the only package available on the market to provide all the necessary tools to assess fractured reservoirs, from secondary porosity assessment to permeability computation. It allows geologists and reservoir engineers to pragmatically understand the impact of fractures and their associated uncertainties. The workflow is applicable in various contexts: oil and gas as well as geothermics or CCS.

FracaFlow® embeds a large set of tools allowing geologists to understand the way a fracture network is affecting a reservoir:

- geological data analysis tools to reach a quantitative description of the fracture network
- dynamic data analysis tools to predict & calibrate fracture network properties between wells

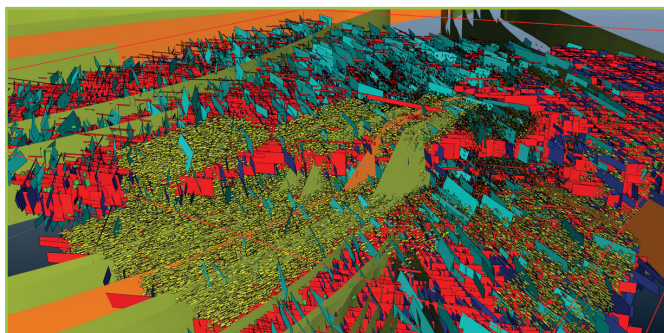## From Fracture Network Modeling to Dual Medium Simulation

Handling from deterministic regional faults to the smallest sub-seismic and diffuse fractures sets, FracaFlow® delivers the most geologically consistent fracture network model, which may be further refined by any seismic or geological attributes.

FracaFlow® allows tuning of critical fracture network properties through simulation of KH, flowmeter or even well test signatures that may be calibrated against observed data at well locations.
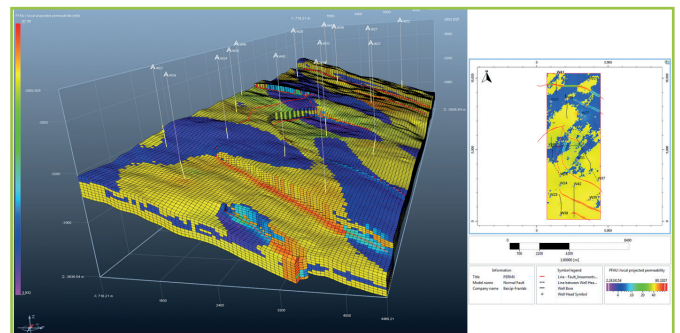
Upon calibration, the fracture network model may be upscaled using either analytical or numerical methods for dual medium simulation purposes, generating dual porosity and permeability cubes as well as shape factors.

Key benefits

- **Full workflow within a single work environment, from characterization to modeling and up-scaling**
- **Applicable to any type of fractured field (carbonate, clastics, basement) and any context (oil&gas, new energy technologies)**
- **Unique fracture network calibration tools with KH matching loop**
- **Two fracture equivalent parameters computation methods: analytical for well-connected networks, flow-based for less connected ones**
- **Link to EasyTrace™, CougarFlow® and PumaFlow® for full scope fractured reservoir studies**

The availability of different conceptual models makes FracaFlow® the most powerful multi-scale fracture modeling tool.

Two upscaling methods are available for fracture equivalent parameters computation: analytical and flow-based.

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