# TESSAEL

GeO$_2$ Meshing Software

Tessael

Tessael
A Geological Meshing Company

Nancy-based startup founded in 2020 by Wan-Chiu LI and Cédric Borgese

with support from Inria Startup Studio and the Grand-Est Region

JEI (2021), laureate of i-Lab grant (2022)

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Specialized in R&D and software development for geosciences

(CCUS, Geothermal, Oil & Gas)

Scientific partner: Pixel team (Inria + Université de Lorraine)

Collaborators: TotalEnergies, IFP Energies Nouvelles, Enerex
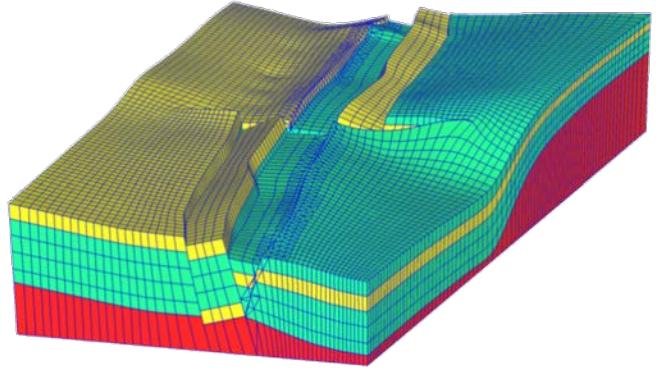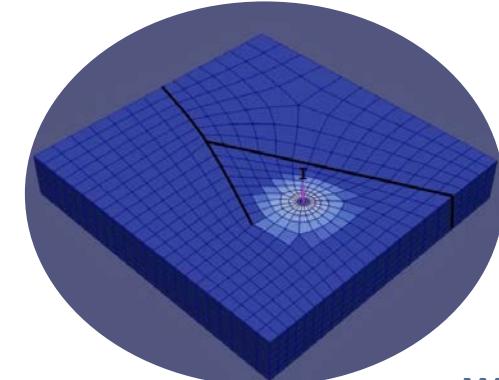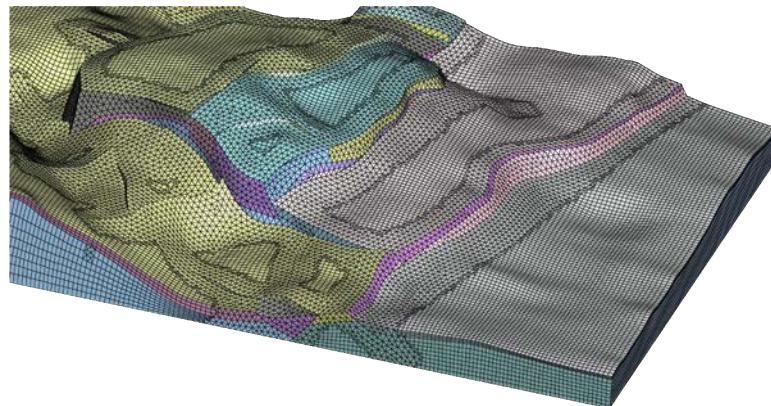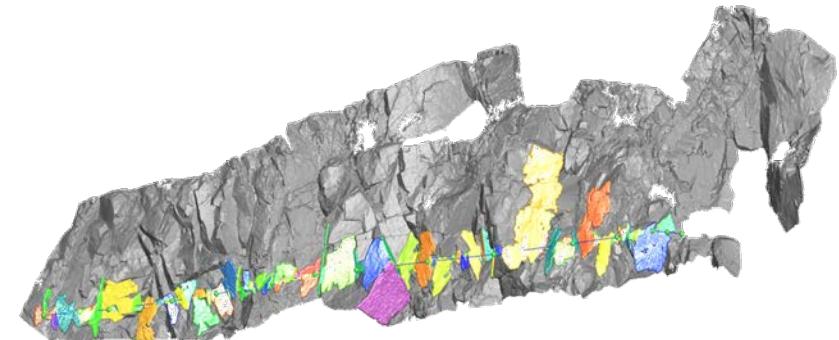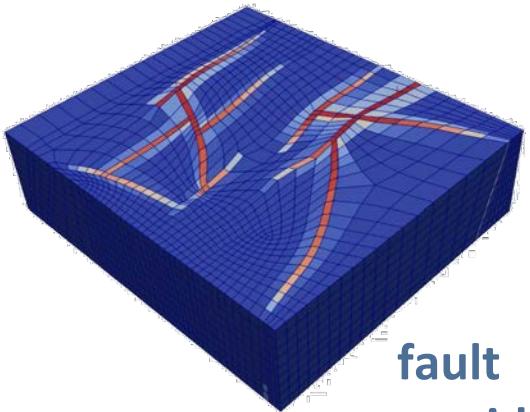
GeO$_2$
A geological meshing platform
## for multi-scale, multi-physics simulations

basin

reservoir

fault corridor

natural fracture

well bore
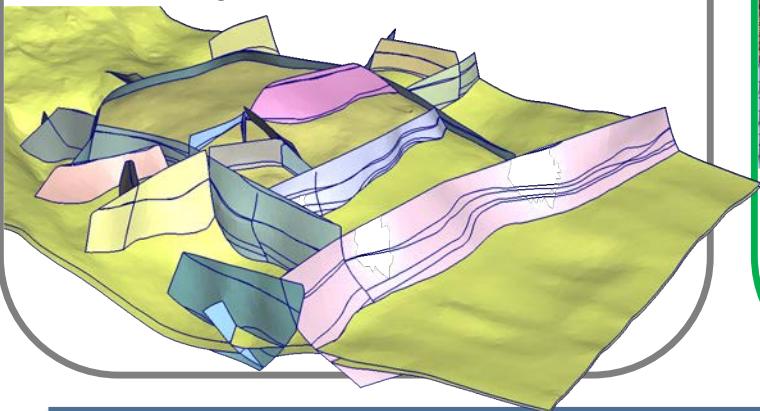
GeO$_2$
A versatile grid building engine

Geomodelling

GeO$_2$ Meshing

Micro services   EXE
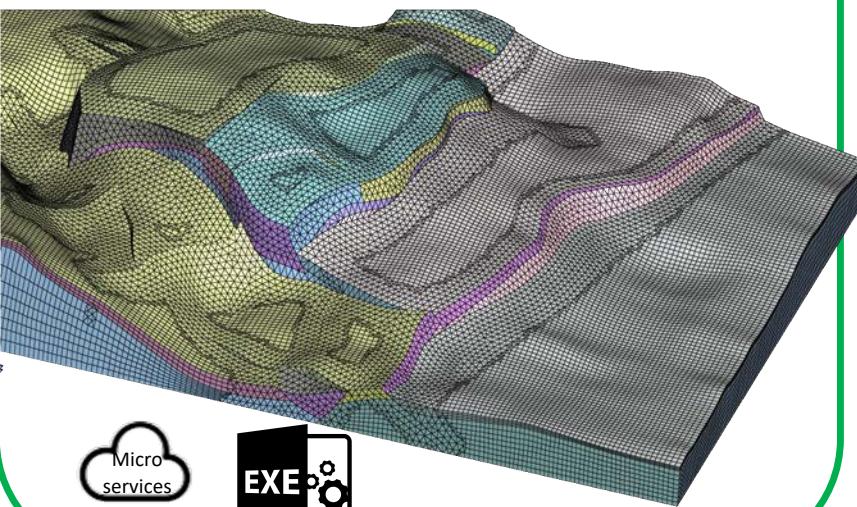
Simulation

Flow: INTERSECT, ECLIPSE, Echelon

Mechanics: ABAQUS

**Flow-mechanics:** GEOSX, CSMP

Kinematics: Kine3D-3 (CodeAster)
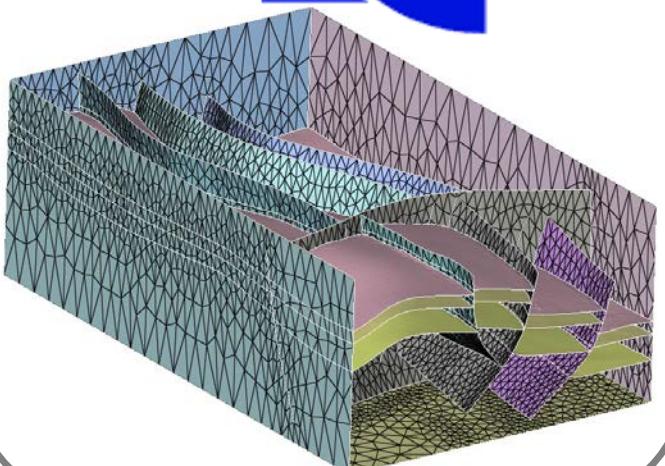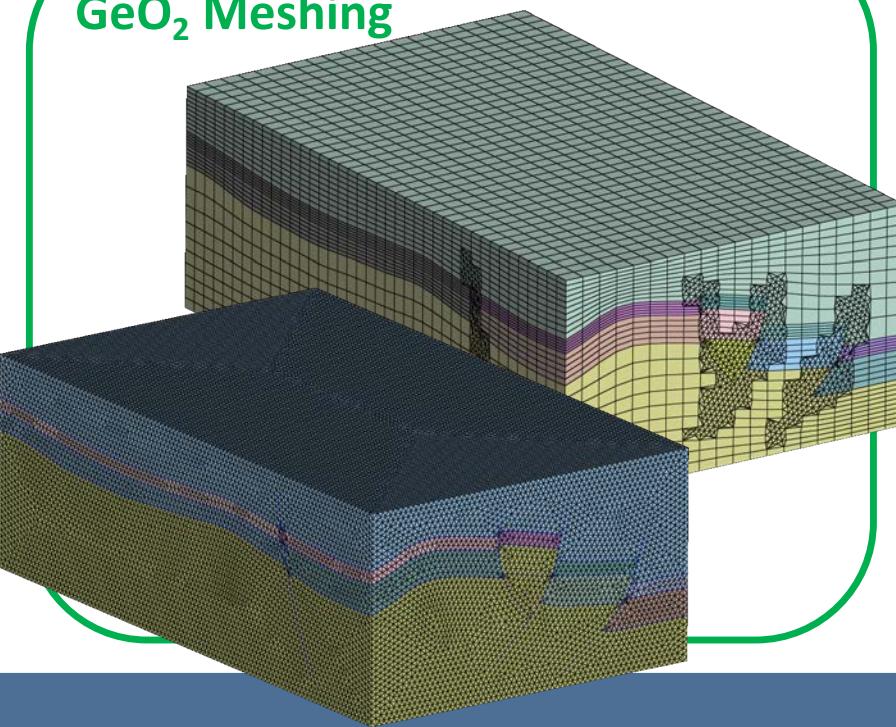
GeO$_2$
A typical workflow
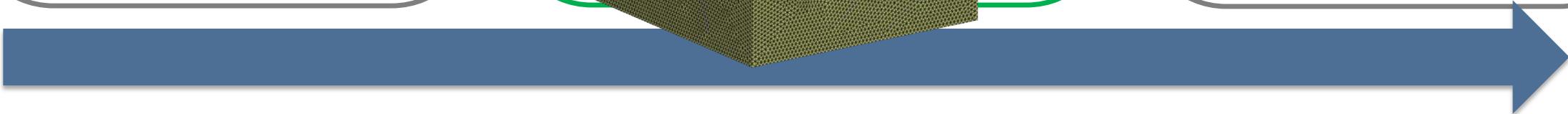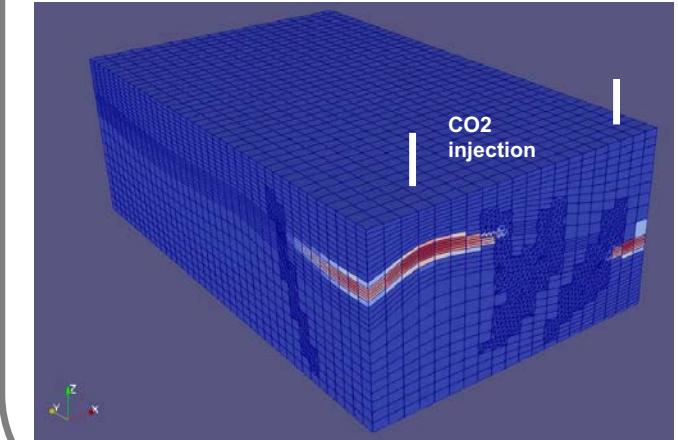
Geomodelling

GeO$_2$ Meshing

Flow-mechanics simulation

github.com/GEOSX

CO2 injection
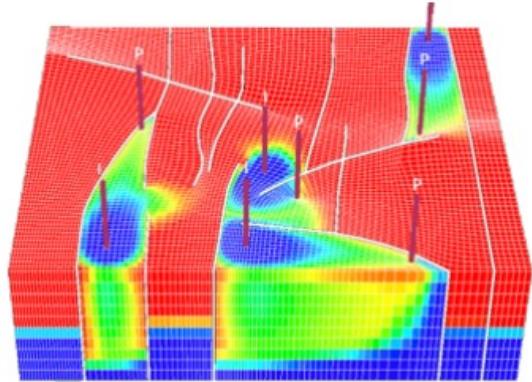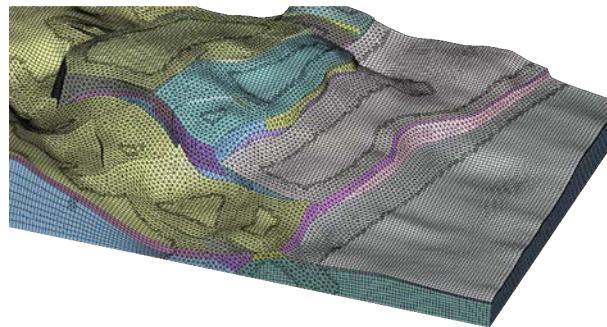
GeO₂
Our meshing offers

SSHex
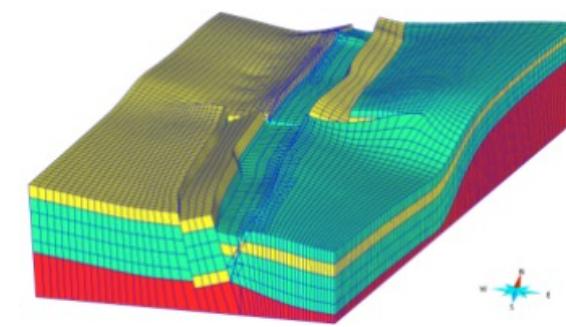
HexDom

ClipHex

Flow simulation
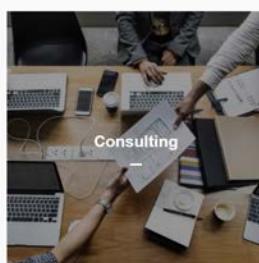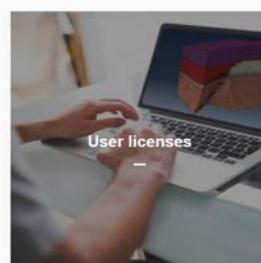
Flow-mechanics simulation
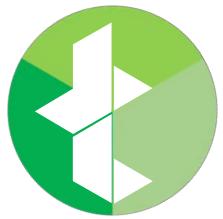
Kinematics simulation

Single-grid integrated multi-physics simulation

User licenses

Consulting

C++ DevKit

www.tessael.com

GeO₂ – A Geologic Meshing Solution

| Trial | Monthly | Yearly |

Tessael Unlocking Subsurface's Potential for Energy Transition

SSHex Sealing

Oil & Gas

CO2 injection

CO2
CCUS

Geothermal