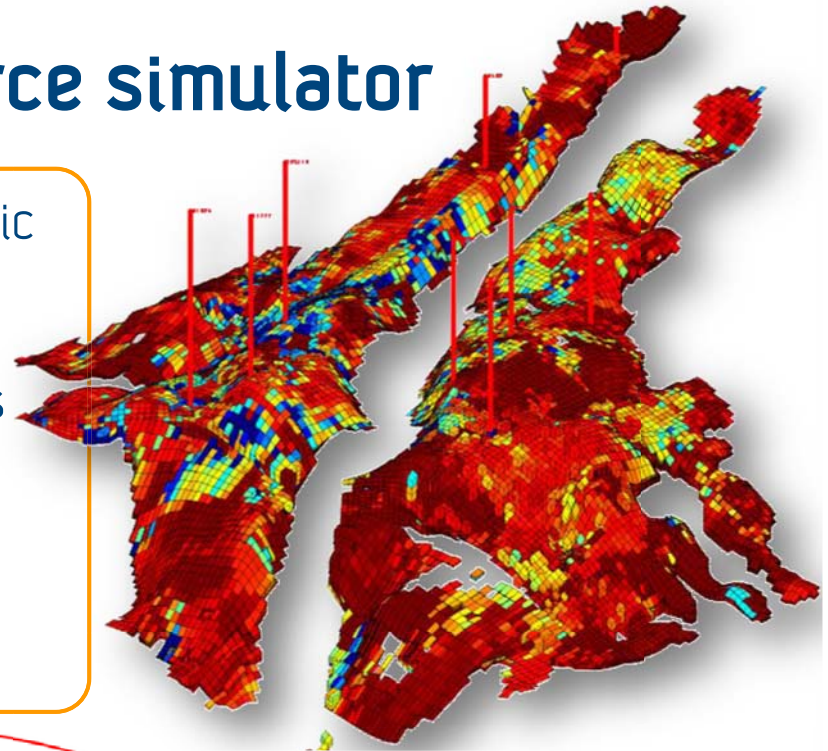


MRST: fully implicit open-source simulator

- Based on automatic differentiation for automatic generation of Jacobians
 - Simple to extend to new models
- Gradients obtained through adjoint simulations
- Current models
 - Oil/water (+ polymer/surfactant)
 - Oil/gas
 - 3-phase black oil (live oil/dry gas)



- Benchmarked against commercial simulator on real field black oil model
- ~20 years of historic data
- Virtually identical results

