All phases of oil & gas reservoir exploitation are financially and physically risky. Virtual testing can help you predict the consequences of any decision, while staying focused on the industry pillars: Safety, Quality, Reliability, Sustainability and Profitability.

**Drilling Safety & Productivity**
Reduce costs and safety risks by maintaining borehole stability

**Completion Quality & Reliability**
Minimize risk by selecting the best cementing, perforation, completion and stimulation techniques

**Production Profitability and Safety**
Achieve economical, low-risk production by designing equipment and assessing rock movements on a virtual equivalent

**Waste Management Sustainability**
Predict effects of water and drill cutting injection to avoid health, safety and environment-related risks

**Subsidence**
Model surface displacement due to rock compaction

**Well Path and Casing**
Minimize the risk of casing failure and threaded connection leakage through structural optimization

**Stimulation**
Explore scenarios to optimize effects of hydraulic fracturing in production

**Produced Water and Drill Cuttings Injection**
Predict seismic risk posed by injection activity

**Rock Compaction**
Evaluate effects of compaction and related subsidence during production

**Equipment Validation**
Assess surface and subsurface equipment for thermal, stress and fatigue integrity

**The Benefits of Virtual Testing**

**Learn More**
*Dassault Systèmes Upstream Oil and Gas Solutions*