

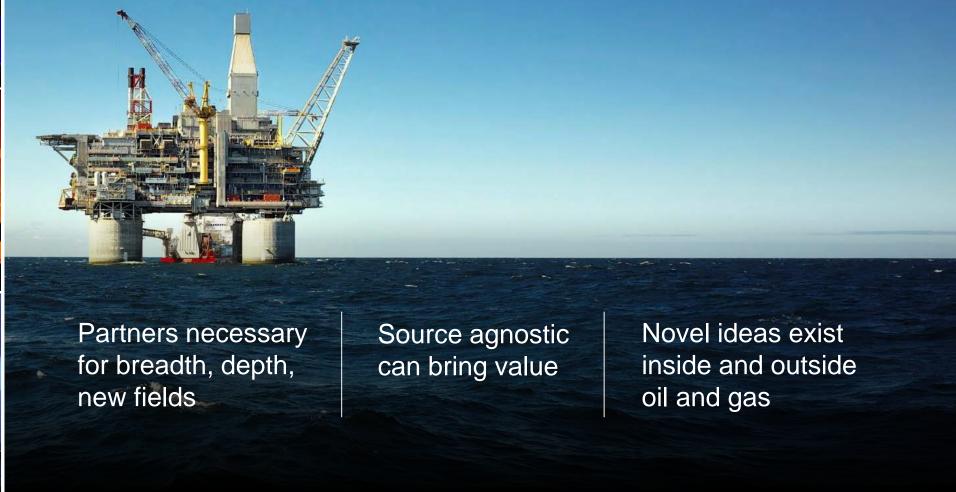


The (R)evolution of Technology in Halliburton

Greg Powers - Vice President, Global Innovation, Global R&D



The New Paradigm: We Cannot Invent Everything

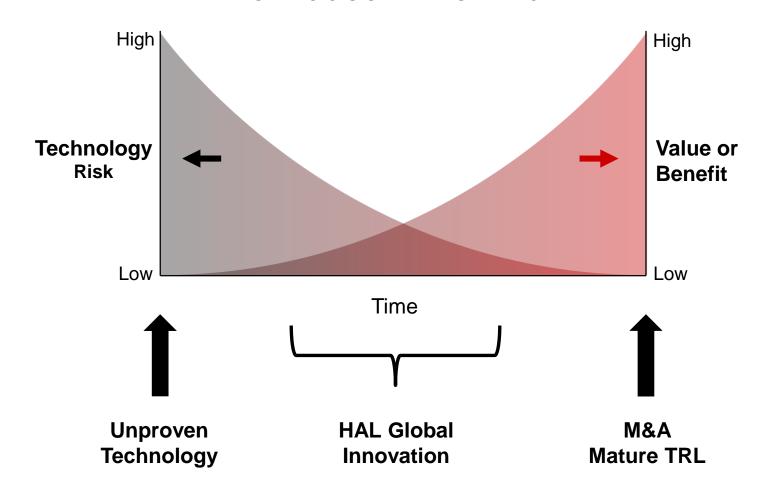


The Second Paradigm

NATIONAL BESTSELLER with a new introduction it's not the **BIG** that eat the SMALL ...it's the FAST that eat the **SLOW** How to Use Speed as a Competitive Tool in Business $\rightarrow \rightarrow$ **JASON JENNINGS & LAURENCE HAUGHTON**

We're BIG We want to be FAST

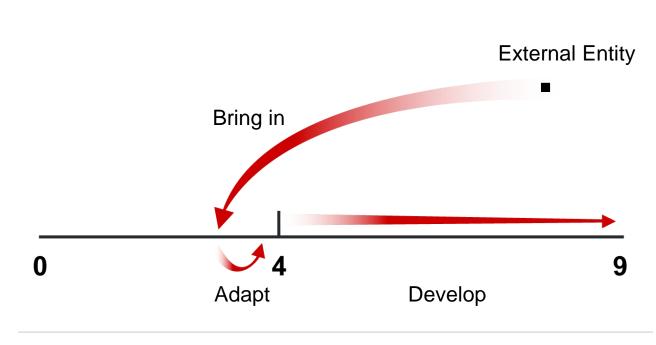
The Tradeoff Dilemma



Historical Actions: Take Low Technology Risk

- Acquire functional business
- Cost: High
- The 'physics' works
- Risk of adaptation: low

Acquire Existing Industrial Technology

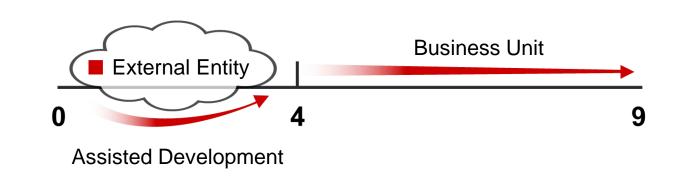


Technology Readiness Level

Innovation Model: Brings New Risks

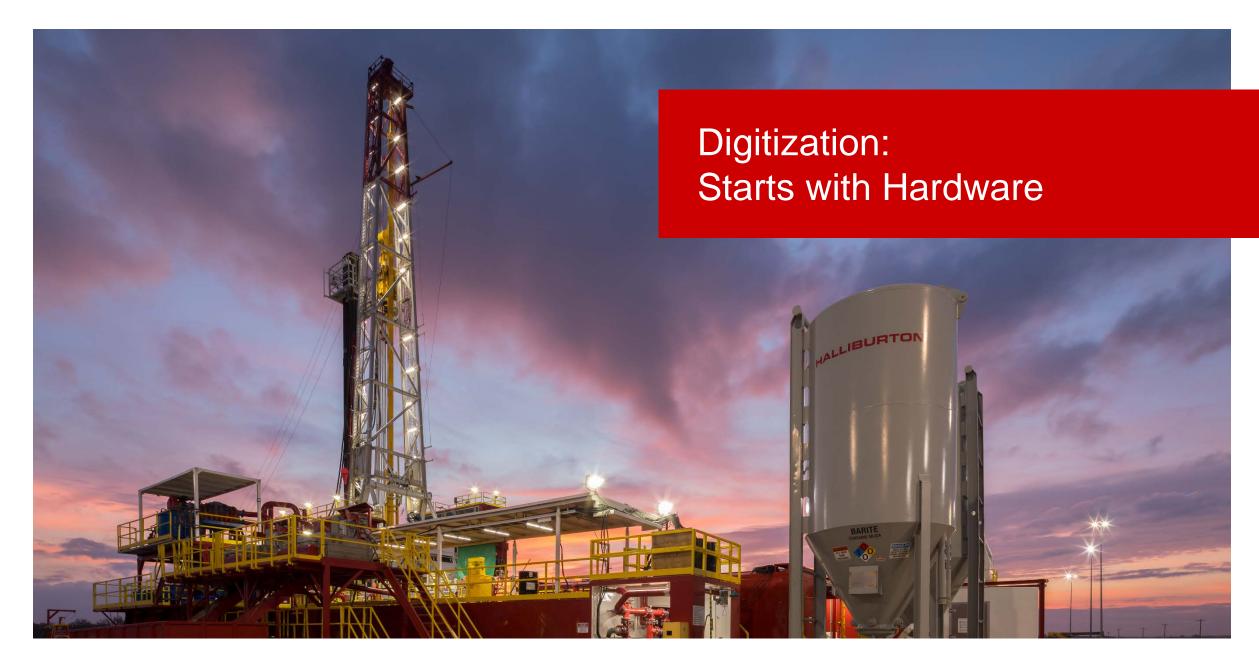
- The 'physics' may not be clear
- Adaptation unknown to owners
- Cost: low to TRL 4

Innovation Organization Partnering with Startups

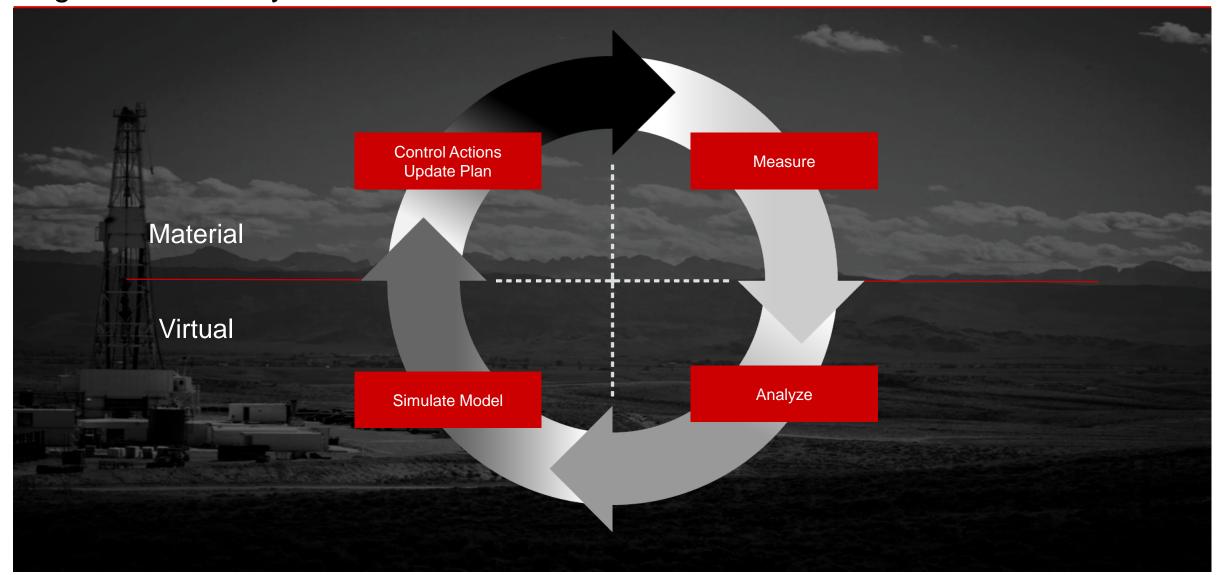


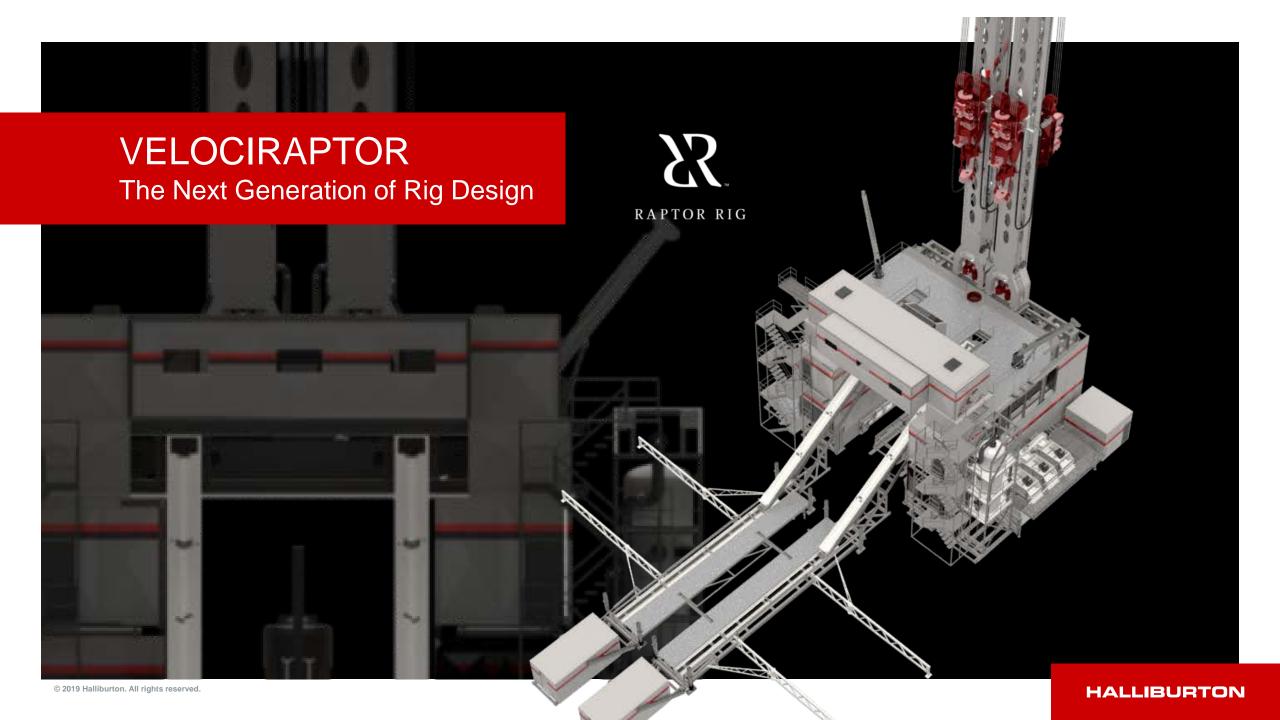
Technology Readiness Level

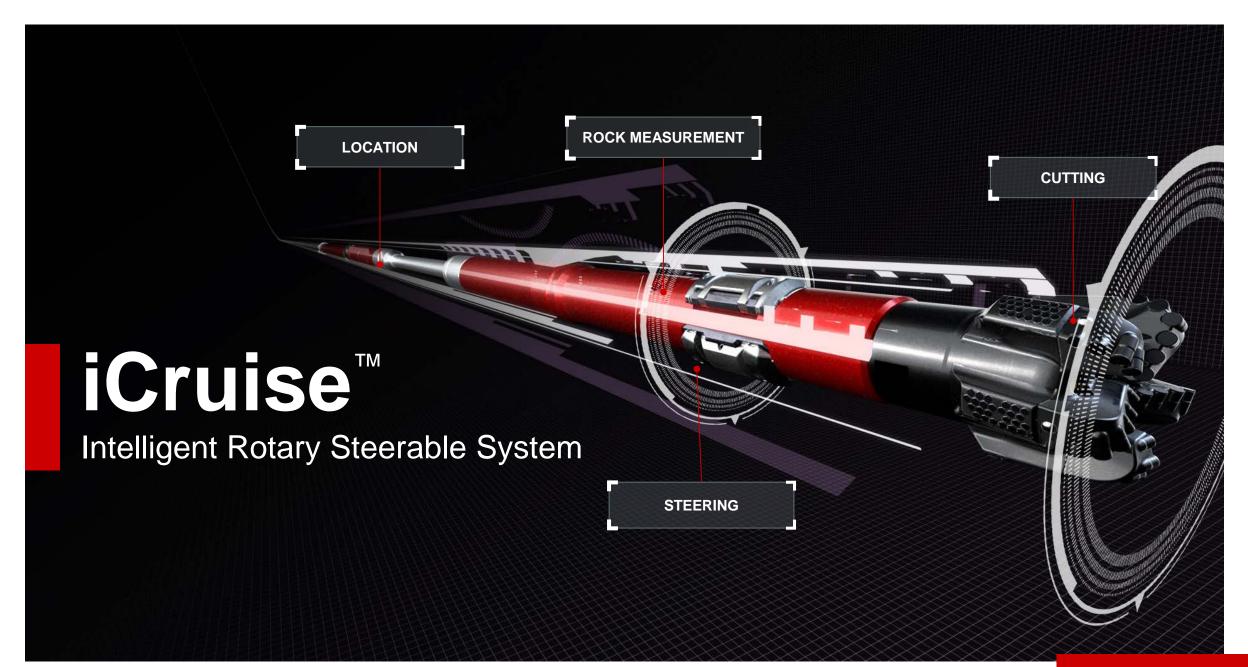


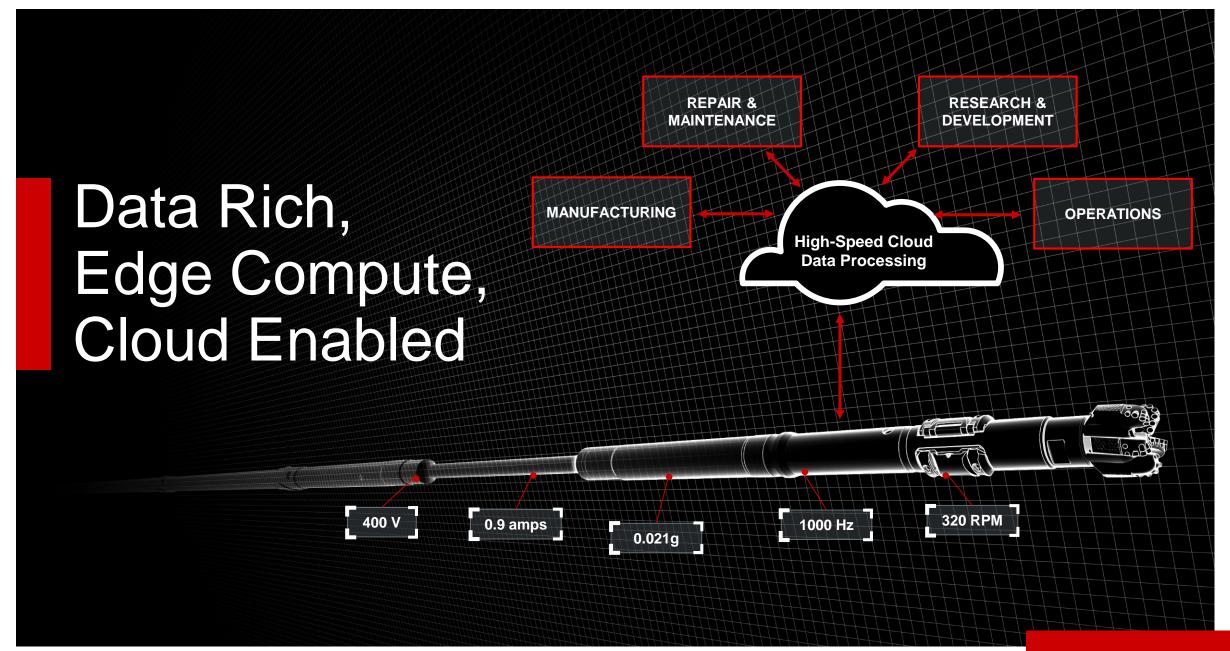


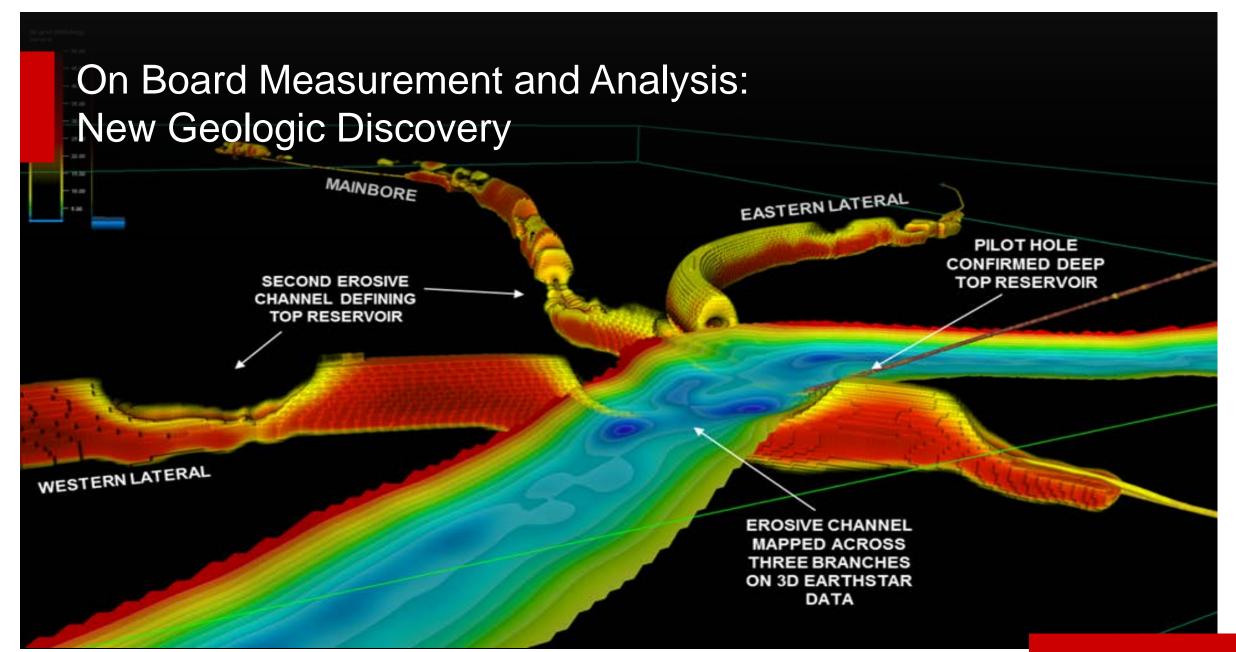
Digitization is a Cycle, Not an Event



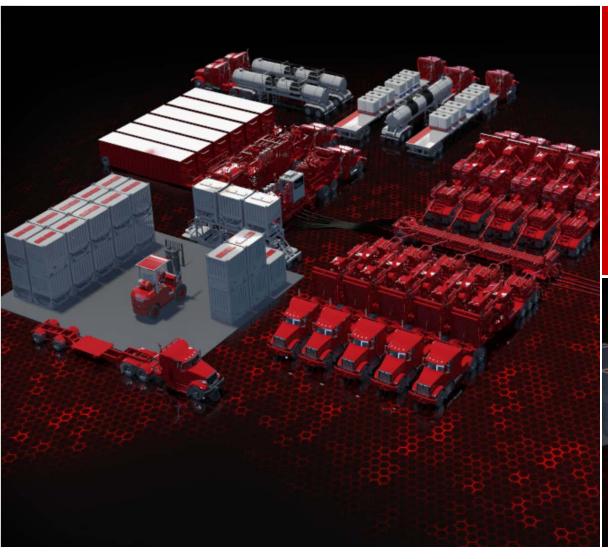








Smart Machines Coming of Age



- Speed
- Minimize Variation
- New Learnings





