

STRIKING (BLACK) GOLD WITH BIG DATA

REIMAGINING OIL EXPLORATION OPERATIONS WITH PREDICTIVE LITHOLOGY



VOLATILE OIL PRICES, rising costs and challenging operating conditions make oil and gas exploration and production decisions complicated

TRADITIONAL EXPLORATION

Analyzing terabytes of drill hole sensor data is complex, time-consuming and needs scale

PROVIDE VISIBILITY

STEER EFFECTIVENESS

Visual core analysis by geologists is tedious and reactive; weeks before corrective action is taken



EXECUTE ACTIONS

2 of 3 wells do not meet targets due to unexpected geology or hazards



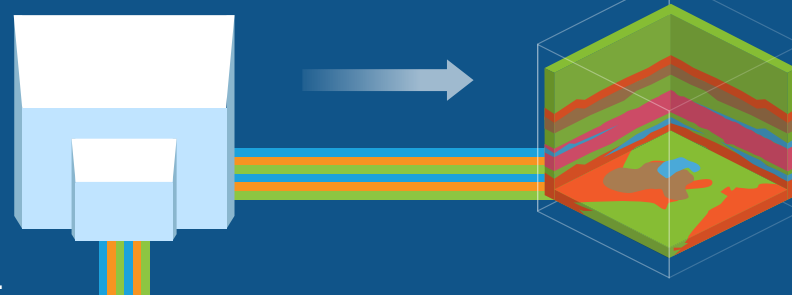
New wells can take **\$100 million** to drill

Drilling operations can cost **\$1 million/day**

INTELLIGENT EXPLORATION OPERATIONS

2 ASPECIALIZED BIG DATA SYSTEM

Intelligent Process Insights Engine – distills high volumes of data



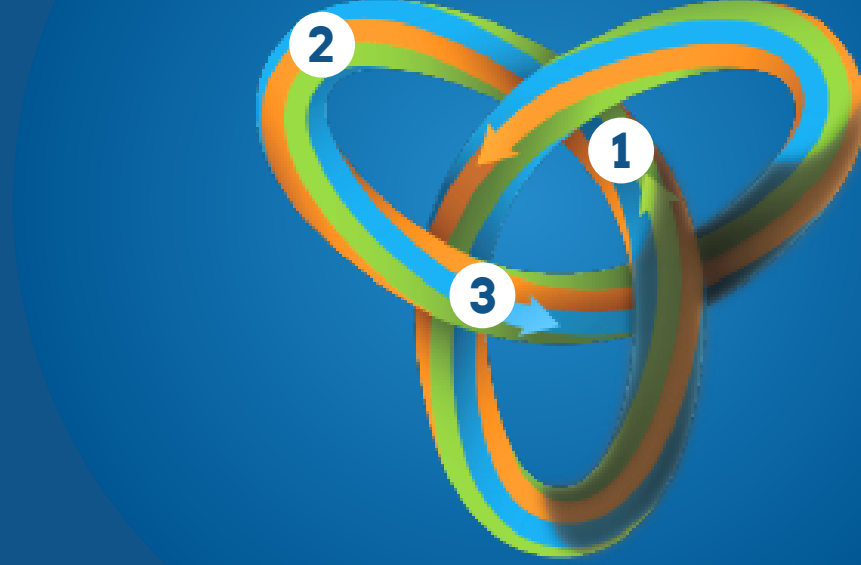
3 INNOVATIVE FUZZY LOGIC harnesses geologists' expertise to create a predictive map of area lithology in hours rather than weeks



PROVIDE VISIBILITY

STEER EFFECTIVENESS

1 4TB OF SENSOR DATA processed from each well every day



EXECUTE ACTIONS

IMPACT



90% accurate lithology predictions compared with visual core analysis



Unlimited scalability



\$1 million in savings every week

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