

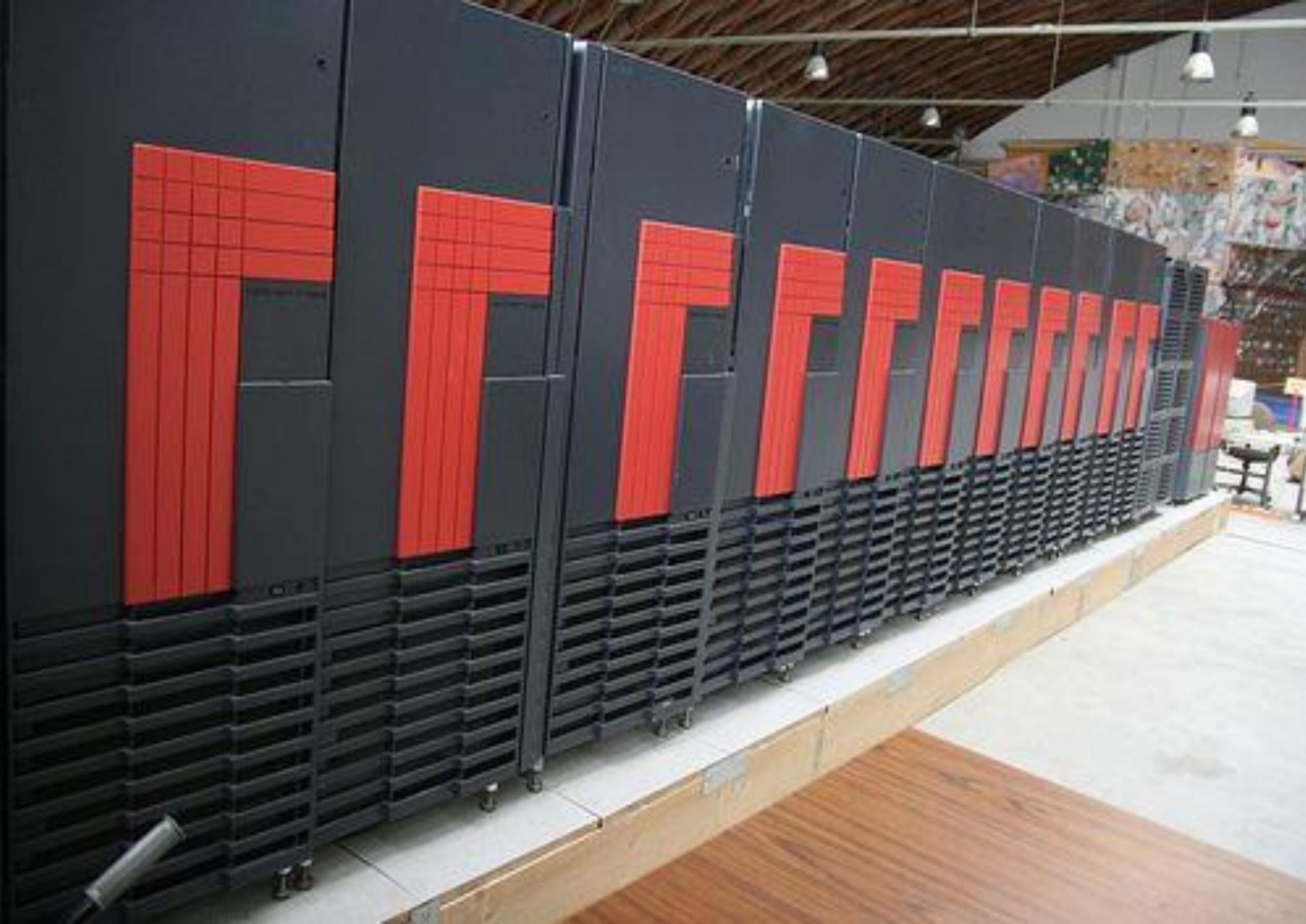


Digital Disruption in Oil and Gas

Eric Abecassis
CIO Schlumberger

Industry Outlook





1997

Cray T3E

\$65M

1 TFLOPS



2013

Xbox One

\$500

6 TFLOPS



ACCESS

PERFECT COPY


DISTRIBUTE

STORE

COMPUTE

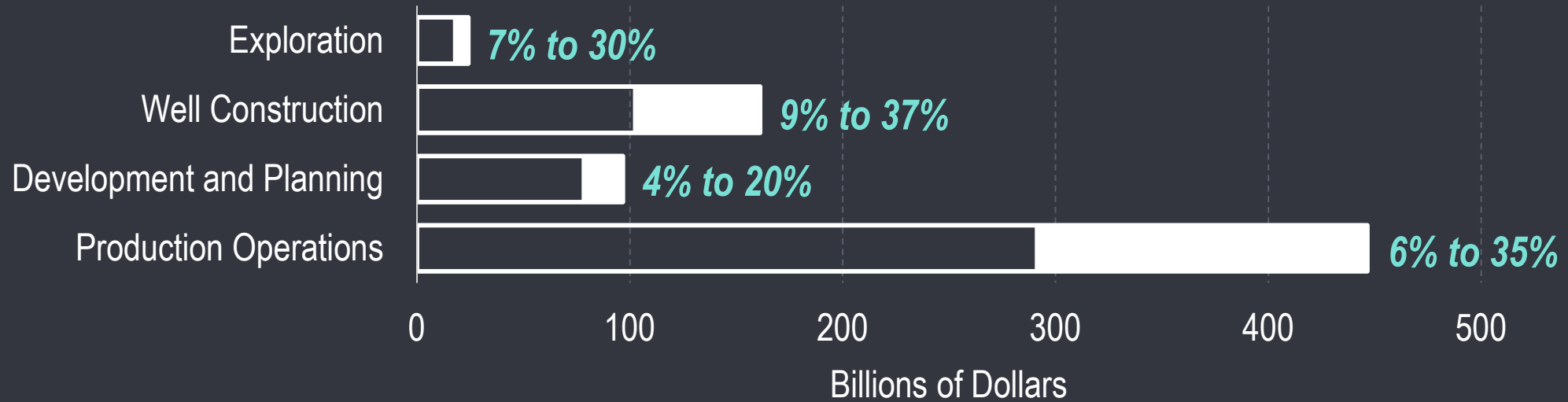
Massive increase of Data

Year	Sensors	Streamers per vessel	Length of streamers	Data acquired per day
2020	1.9 M	2 x 18	10 km	1.2 PB
2015	1.3 M	1 x 12	10 km	205 TB
2005	40 K	1 x 8	8 km	5.7 TB
1990	240	1 x 2	3 km	9 GB



The Promise of Digital

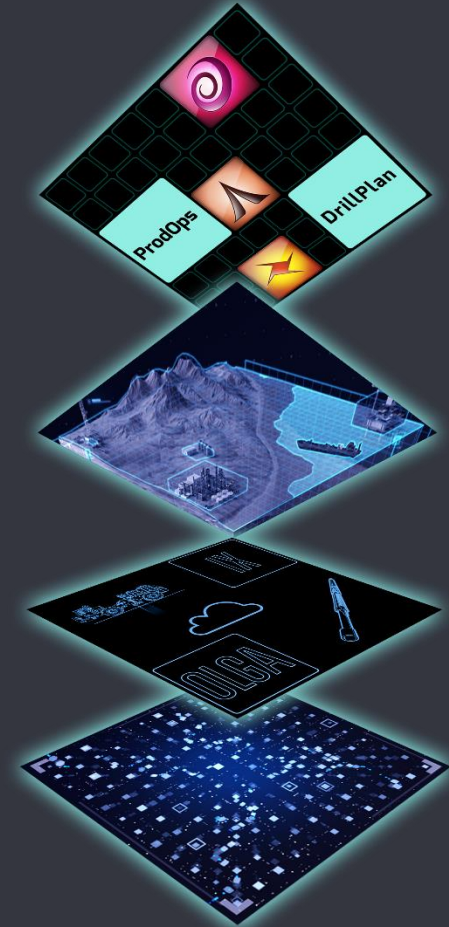
Potential Range of Impact on Global Expenditure in Conventional E&P (2016 baseline)



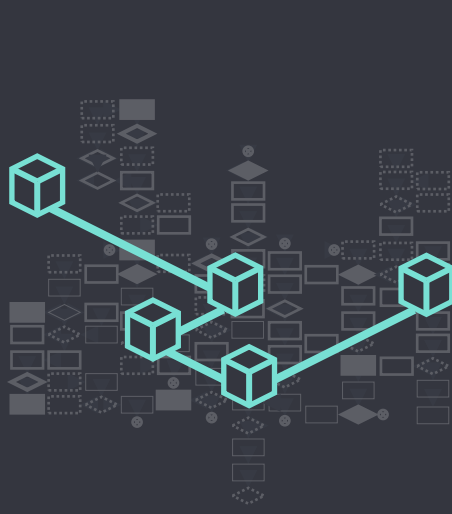
Source: multiple market studies and consultant reports.



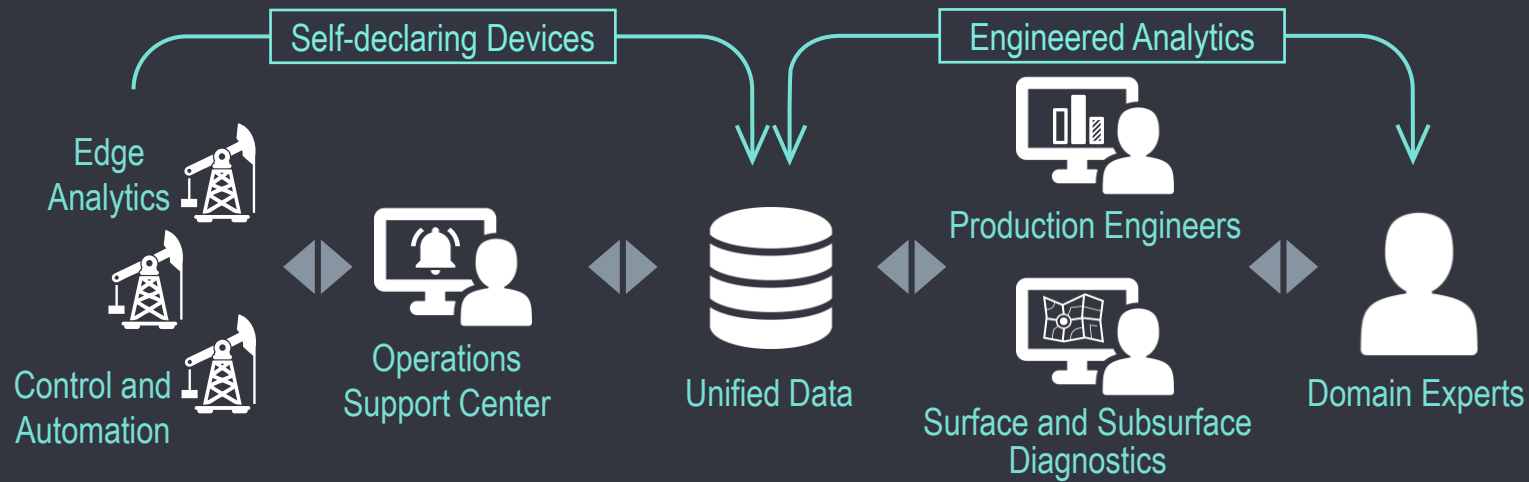
- Secure
- Data Centric
- Extensible
- Collaborative
- Personalized
- Scalable
- Automated



Well Construction



Production




Optimize production

Optimize cost

Minimize HSE risk




15% Increase
pump availability



30% Improvement
service reliability



90% Automation
petrophysical evaluation



50% Reduction
seismic interpretation time



50% Reduction
drilling engineering time



X1000 Increase
reservoir simulation speed

Schlumberger

Schlumberger

QUESTIONS?