



biota<sup>®</sup>

# Engineering DNA Sequencing IN OIL AND GAS

Luke Ursell, PhD  
Product Director &  
CoFounder

# subsurface dna

## transformative data for engineers

### Patented, Disruptive Technology

Unique view of the  
subsurface

### Scalable Data

Enables both broad  
and deep analyses

### Economic Benefit

Drives NPV and ROIC  
decisions



# the value of understanding flow

**Offshore**

**Onshore**

**Unconventional**



# JPT

## DNA DIAGNOSTICS

DEEPWATER PROJECTS

CEMENTING/ZONAL ISOLATION

INTELLIGENT FIELDS TECHNOLOGY

MULTILATERAL/EXTENDED-REACH WELLS

### FEATURES

Low Prices Spur Drilling Innovation  
Oklahoma Responds to Earthquakes  
OTC Asia Coverage

every well  
has a unique DNA signature

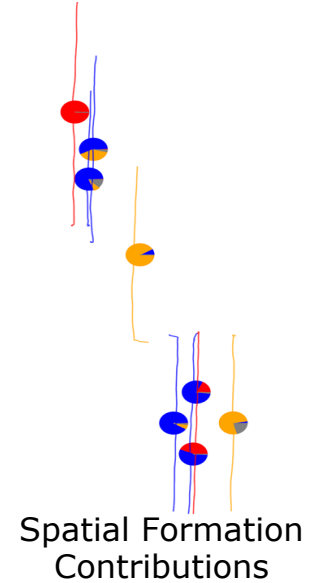
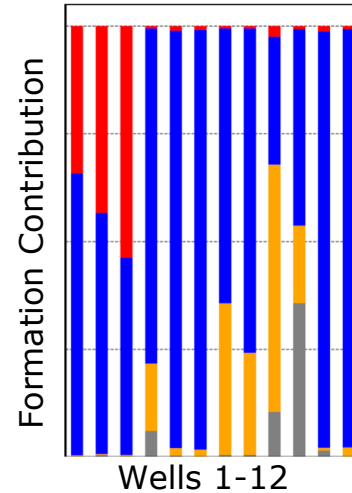
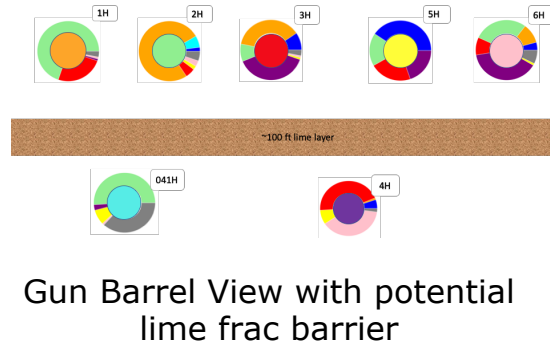
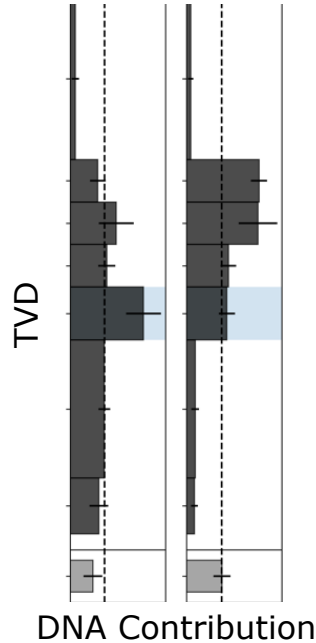
“*Biota is introducing the first new data source  
to the oil and gas industry in two decades.*

— **Vik Rao**  
Former CTO

**HALLIBURTON**



# rapid industry adoption across phases of asset



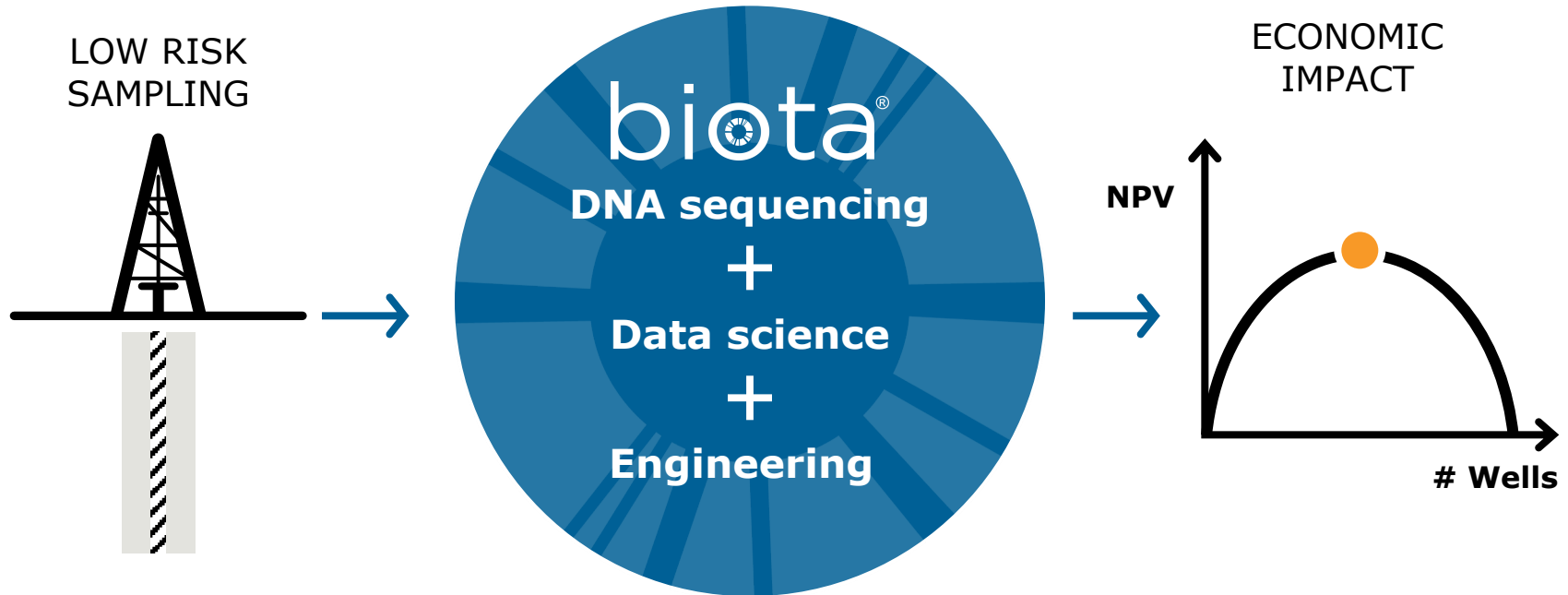
**Drainage Height  
Logs**

**Well-Well  
Communication**

**Field-Wide  
Formation  
Contributions**

**Spatial Drainage  
Patterns**

# economic upside with minimal risk



**Today**

**Unconventional  
Market  
Analytics**

Total Market Size of \$3.5B

1000 Sequenced and Analyzed  
Wells

7% Market Share in first year in  
technical market – 2018

Advancing adoption in  
development in producing wells



**Unidentified Super  
Major #1**

**Unidentified Super  
Major #2**

# Tomorrow

## Conventional & Offshore Market Analytics

Total Market Size of \$7B

Deployments in Gulf of Mexico  
and Malaysia

Production allocation and  
reservoir compartmentalization

Creates significant value given  
low risk sampling procedures



**PETRONAS**

**Unidentified Super  
Major #1**



**DNA** SEQUENCING  
revealing the reservoir

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