

# HELIUM TECHNOLOGY TEASER PRESENTATION

HYDROCARBON EXPLORATION,  
DRILLING AND FIELD DEVELOPMENT

2021

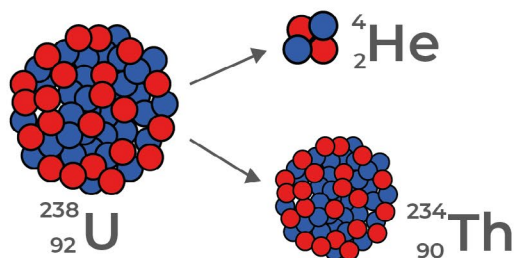
sealium  
A HEOLOGIC COMPANY



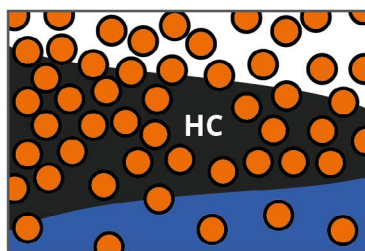
# INTRODUCTION

We are delighted to share with you this brief presentation on breakthrough Helium Technology that has received strong recommendations from our customers worldwide.

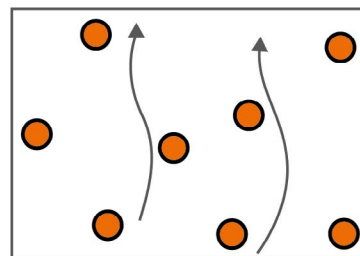
There are four main key facts about inert noble gas of Helium you should know:



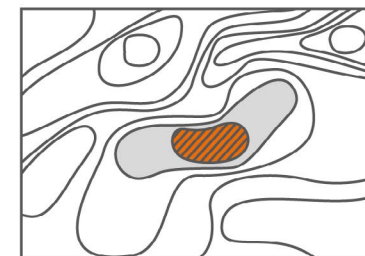
1. Helium is the product of Uranium and Thorium ALPHA-DECAY and has NO BIOGENIC ORIGIN



2. Helium ACCUMULATES in hydrocarbons and HARDLY dissolves in the water



3. Helium has a HIGH migration ability and MAXIMUM vertical migration path through sedimentary cover to the surface



4. Helium anomalies on the surface provide SIGNIFICANT information about geology and HC presence

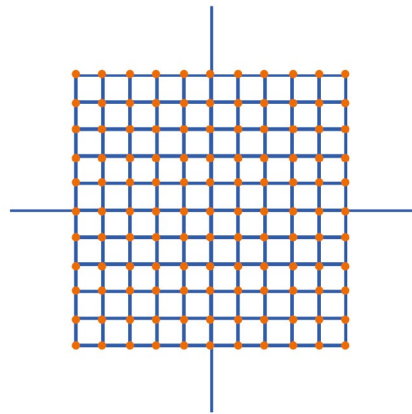
We developed and commercializes sophisticated He-Technology Solution to detect and analyse Helium Anomalies for the benefits of Global Petroleum Industry.

# ABOUT

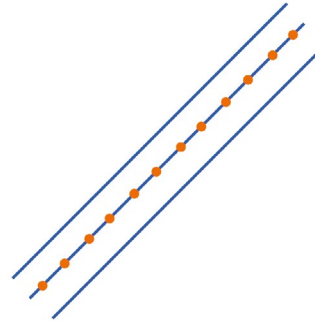
- Since 1992
- Heologic group founded in St. Petersburg (Russia) by professors from Russian State Institute of PetroGeology
- Headquartered in Singapore
- The only specialized Helium Technology developer and provider
- 20+ international project management staff
- 40+ international field operators
- Patents in He-Technology



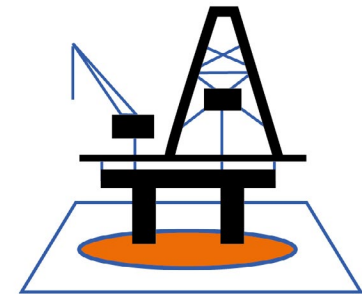
# SERVICES IN EXPLORATION



**spatial helium survey  
above prospective structures  
(distance between measurement  
stations 50-300m)**



**regional profiled helium survey  
through offshore block  
(distance between measurement  
stations 300-500m)**



**optimal well allocation**

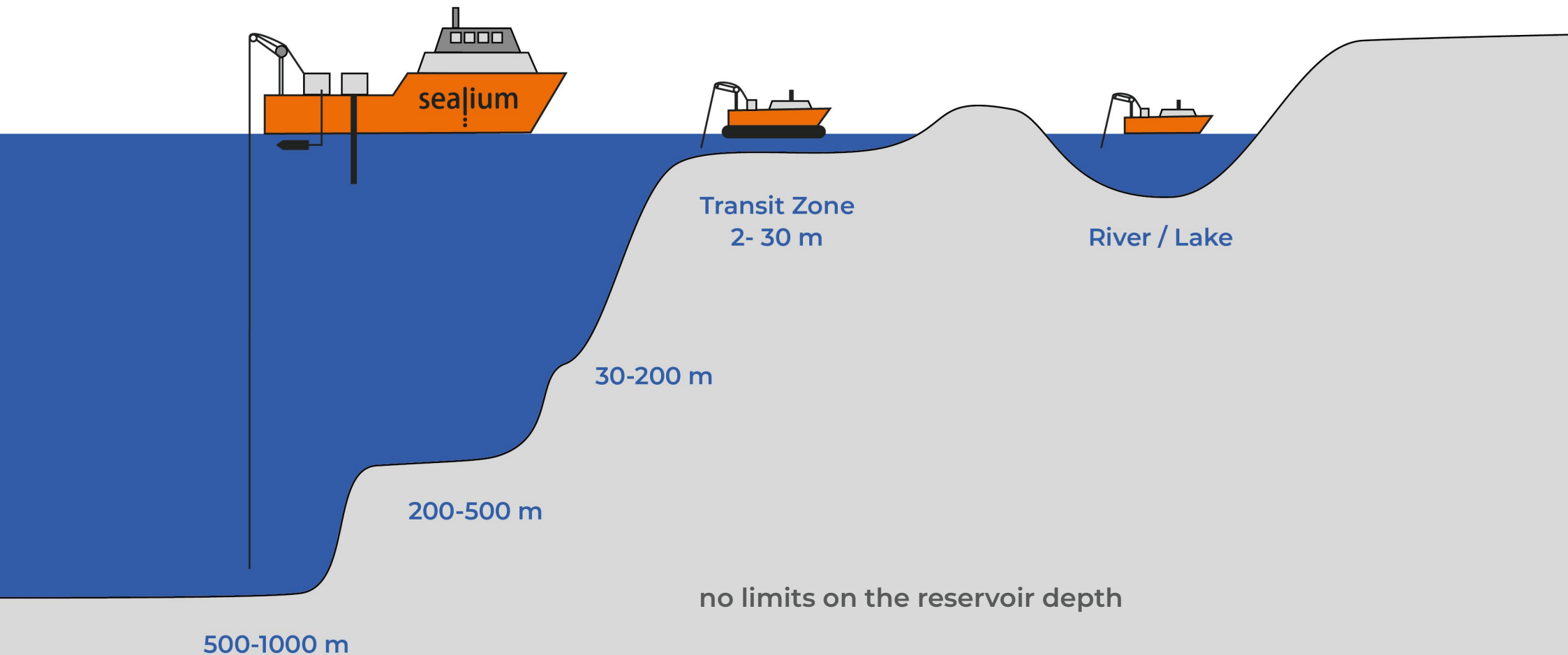
# IN-SITU OPERATIONS

## CONVENTIONAL:

oil  
condensate  
gas

## UNCONVENTIONAL:

tight oil/gas  
oil/gas rich-shale



# WATER AND MARINE HE-SURVEYS

- Survey speed up to **6 KM2** per day, subject to waterbody type, water depth, boat/vessel manoeuvring ability and weather conditions
- He Concentrations in water measured **IMMEDIATELY** by high-precision Heologic® system



sealium

# TRACK RECORD

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**200+** completed projects globally

**1M** onshore sample stations

**10K** waterbody sample stations

**50M** performed Helium measurements

**9M** acres (36 000 km<sup>2</sup>) surveyed

**3** field discoveries based only on He-Technology

**150** wells drilled within Helium Anomalies

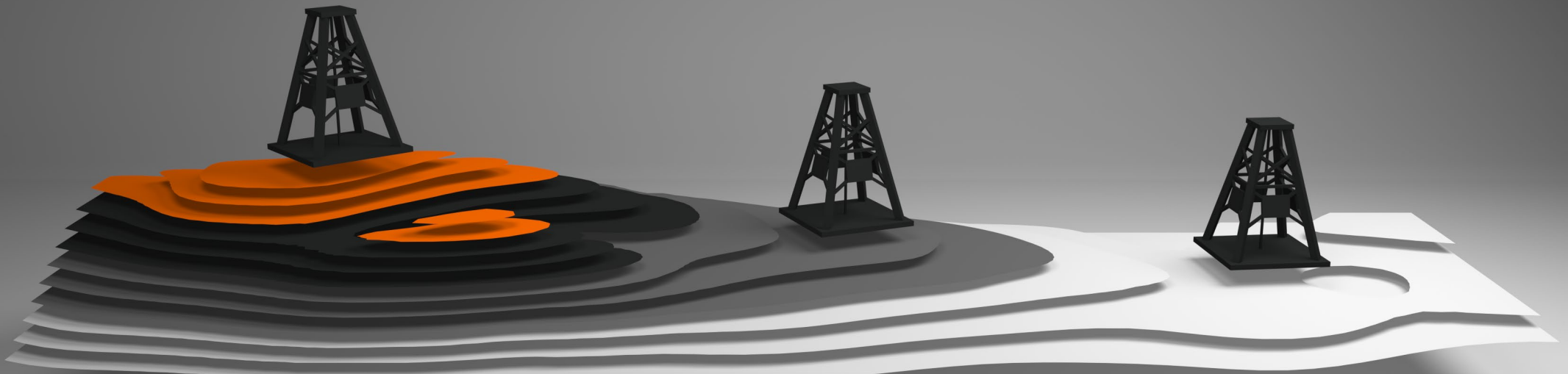
**17 000** ft (5 200m) - deepest commercial well drilled based on He-Technology

# DRILLING DE-RISKING

**80%** drilling success

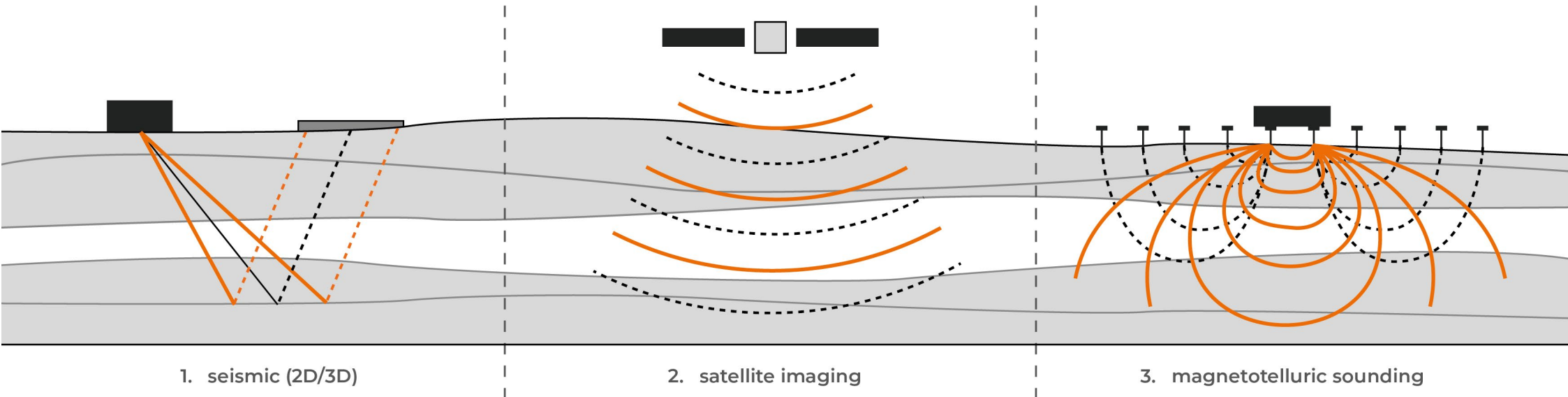
**65%** drilling success

**0%** drilling success



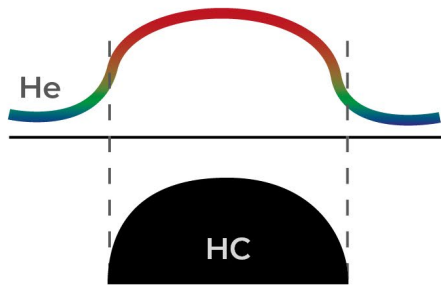
**UP TO 90%** forecasting accuracy confirmed by drilling

# HELIUM DATA INTEGRATION

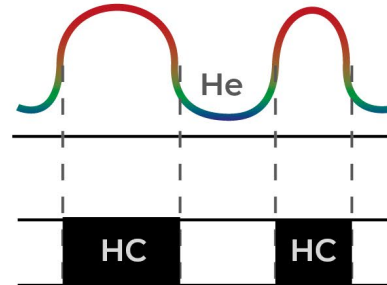


# HE-TECNOLOGY ADVANTAGES

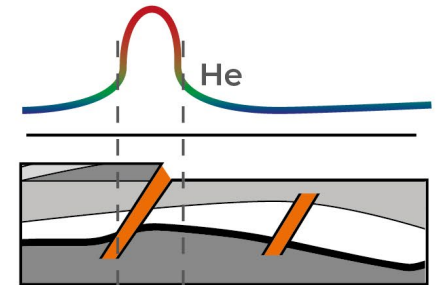
## THINGS WE SEE



- 1. HC saturation and contours of promising zones



- 2. Unconventional reservoirs including tight-gas sands, gas and oil shales, coalbed methane, heavy oil, tar sands deposits

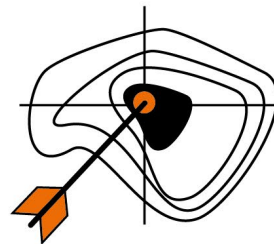


- 3. active and non-active faults

## THINGS WE DO




- 5. verification of potential structures and drilling de-risk



- 7. spot allocation for successful targeted drilling



- 6. prediction and definition of HC type



Heologic Group runs a game-changing business  
to deliver you superefficient, reliable,  
practically proven and sustainable technology

# HE-TECHNOLOGY IS THE SHORTEST PATH TO MAXIMIZE YOUR GROWTH

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