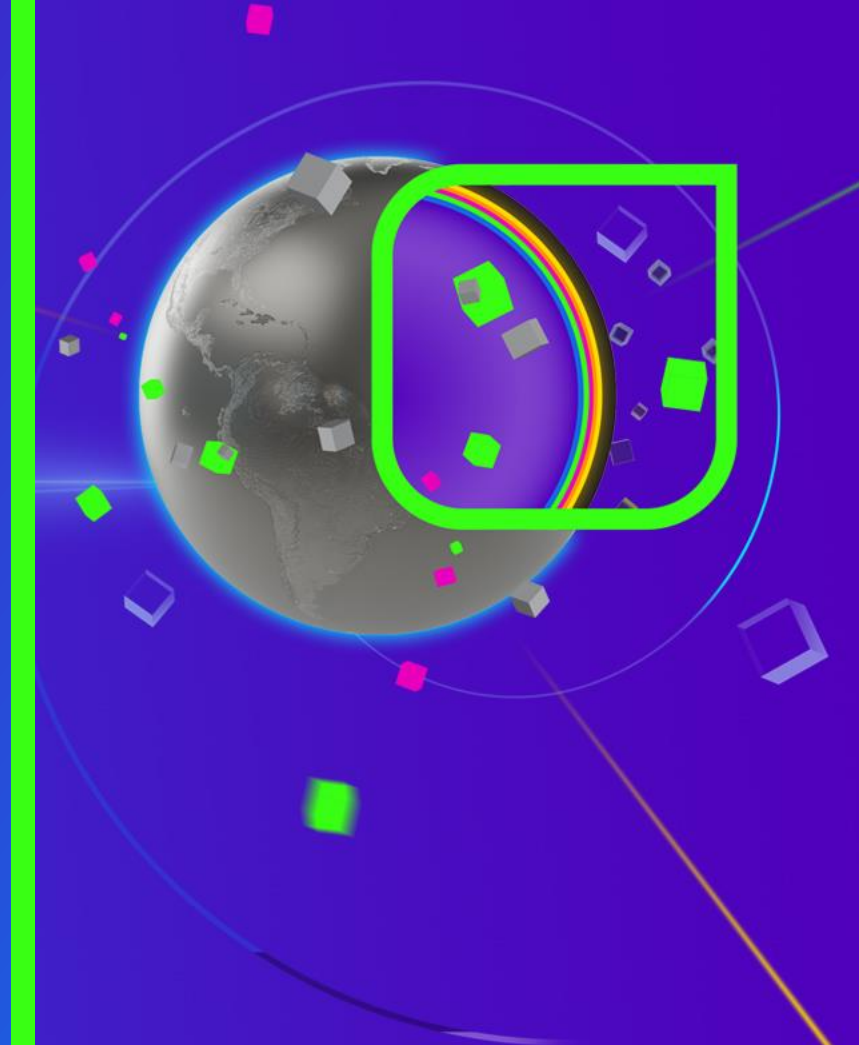


# MOVING FORWARD WITH MOMENTUM

Company Overview

December 2024

[viridiengroup.com](http://viridiengroup.com)



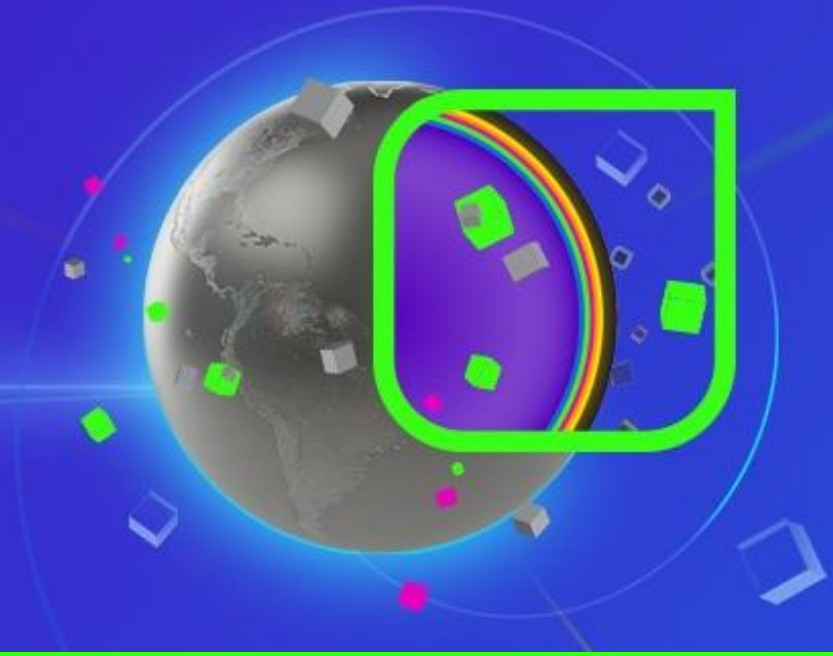
VIRIDIEN



# The world is changing ...

Increasing energy demand, growing commitment to take care of our planet and the accelerating capabilities of digital technology transform the way we live and work.

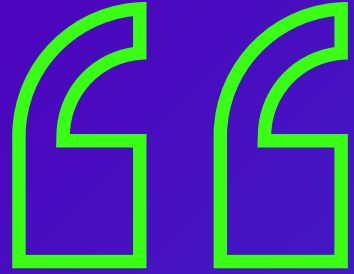
SEE THINGS DIFFERENTLY



... and so are we.

At this important moment in our journey, we are leveraging our rich history and our diverse portfolio to become ...





## Our New Brand

We are linking our distinguished 90+ years of history as CGG to our forward-looking trajectory as **Viridien**.

Sophie Zurquiyah, Viridien CEO





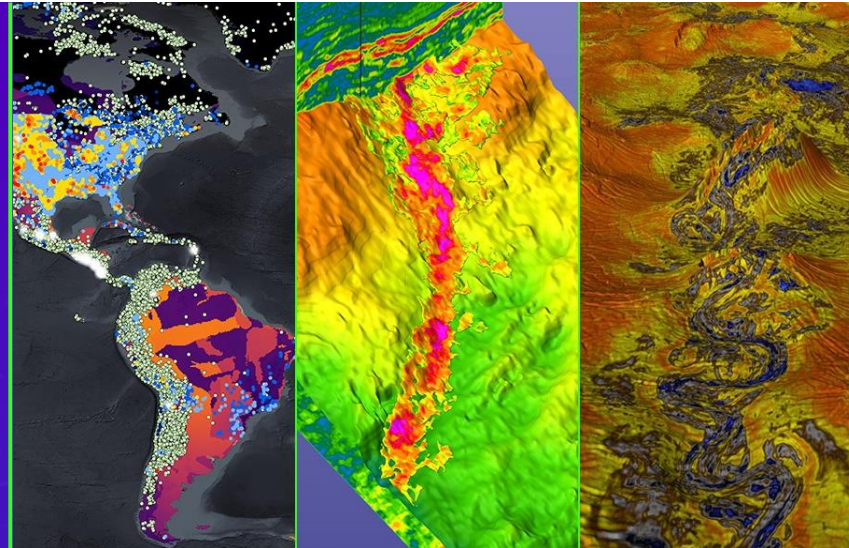


# Moving Forward with Momentum

Building on our achievements and track record of innovation

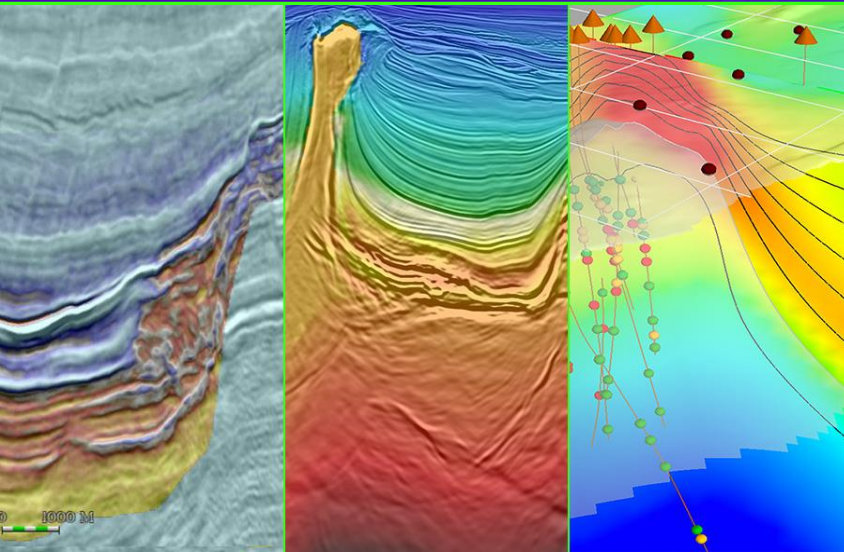
## Geoscience Expertise

Subsurface Imaging  
Geological Services  
Multiphysics Imaging



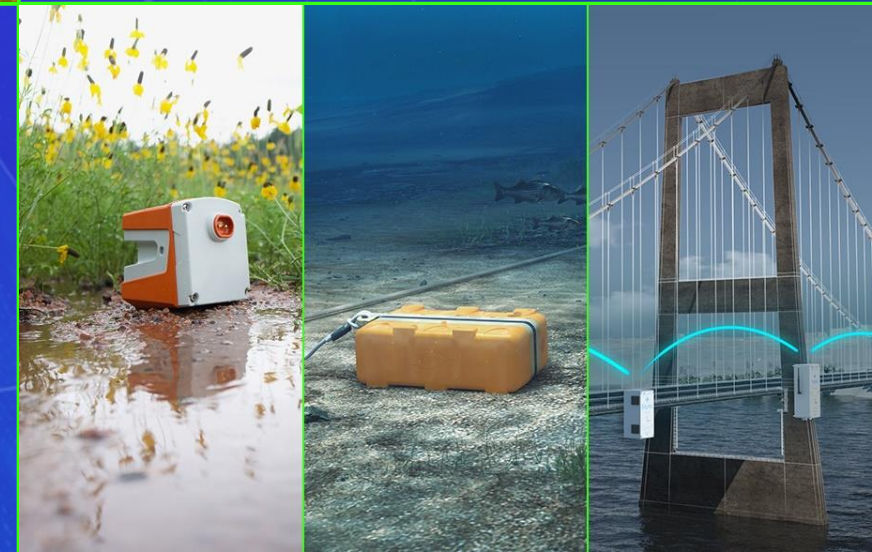
## Sensing & Monitoring

Earth and Ocean Monitoring  
Ocean Bottom Seismic  
Infrastructure Monitoring



## Earth Data

Seismic Data  
Geological Data  
Satellite Data





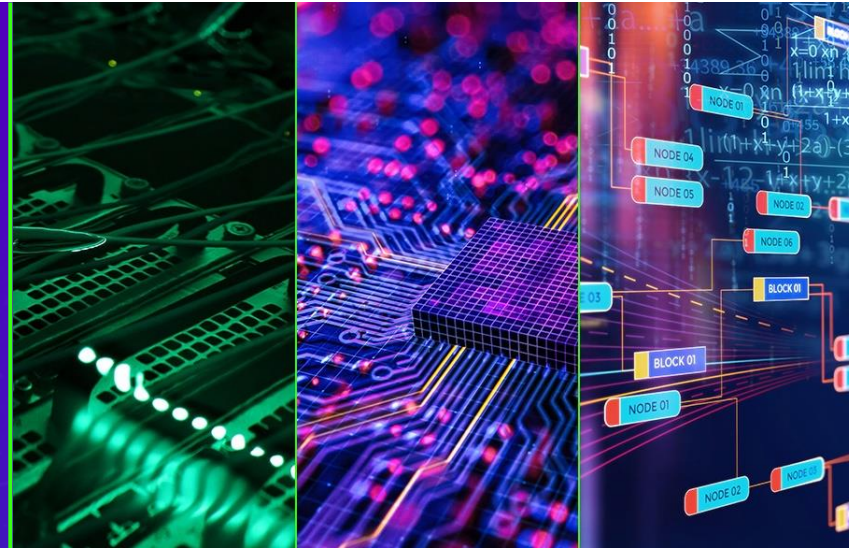


# Moving Forward with Momentum

Expanding our offerings as an advanced technology company

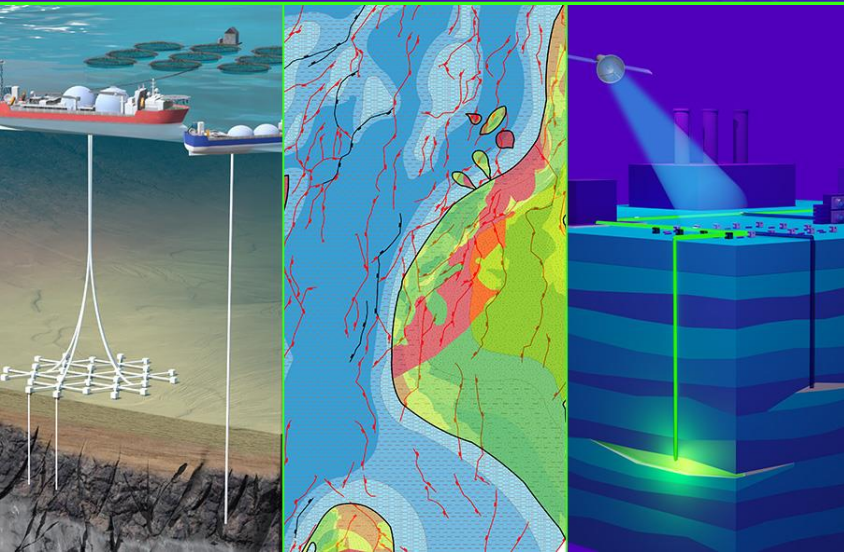
## Low Carbon Solutions

Minerals and Mining  
Carbon Storage



## Infrastructure Monitoring

Structural Health  
Earthworks



## Digital

HPC  
Data Transformation  
Machine Learning and AI





# We are Viridien: Outline

① Our Technology

② Our Data

③ Our People

④ Our Markets

⑤ Our Solutions

⑥ Our Company

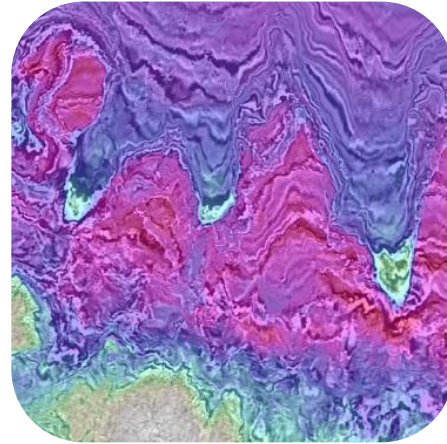


# Our Technology



## Sensing & Monitoring

- Superior sensors, acoustics and IOT solutions
- Pioneer in measuring, and monitoring the Earth



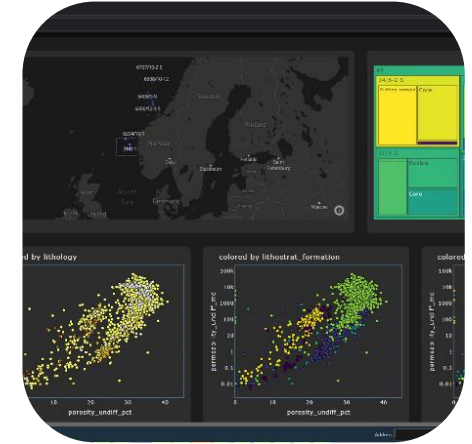
## Imaging & Analysis

- Advanced algorithms, data science and ML / AI
- Leadership in full waveform inversion



## HPC & Cloud

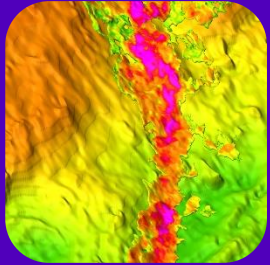
- 500+ PFLOPS highly-optimized compute
- Efficient and sustainable HPC solutions



## Data Access & Platforms

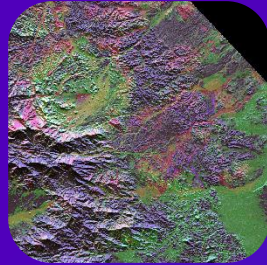
- Data ecosystem and digital geoscience database
- Earth Data library and Versal platforms

# Our Data



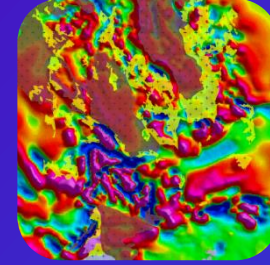
## Seismic Data

The most recent and advanced data in the world's key basins



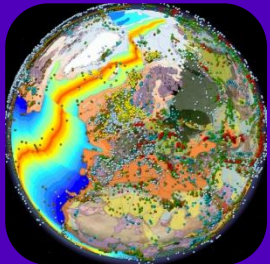
## Satellite Data

Unique intelligence and tools for Energy, Mining, Engineering and Environment



## Gravity & Magnetics

Data and interpretations to aid fundamental understanding at basin-to-prospect scales



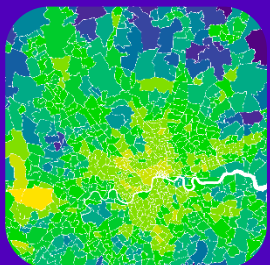
## Geological Data

Digitally-transformed, analytics-ready geological data for natural resources and the energy transition



## Well Data

Curated and consistent analytic well data and dashboards for natural resource exploration and development



## Environmental Data

Data and analytics for renewables site suitability, environmental and climate modeling

Accelerate workflows and improve business decisions with high-quality curated data from our comprehensive Earth data library

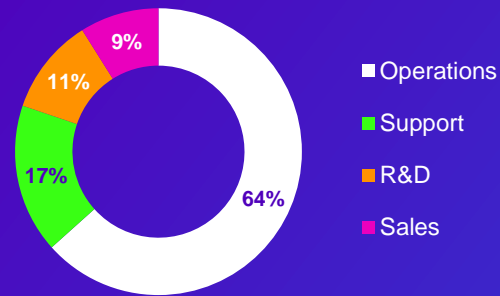




# Our People | We are ...

Global and local

Staff Allocation by Activity



Diverse and multi-disciplinary

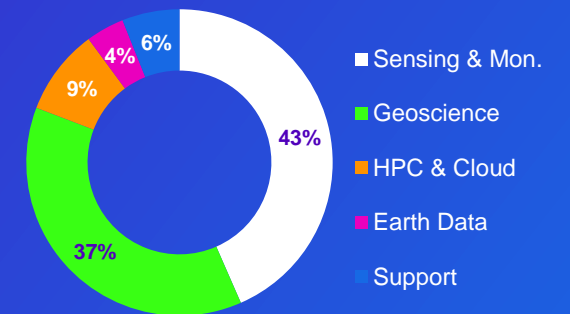
25 LOCATIONS GLOBALLY

70% POST GRADUATE DEGREES

27% PhDs

Innovators and problem-solvers

Staff Allocation by Division







# OUR MARKETS

Here's where we're working today

# Our Markets



## Energy

Geoscience and data science for natural resource, geothermal and renewable energy projects



HPC

Carbon Storage

Mining

Infrastructure Monitoring

Environmental

Marine Logistics

Defense

# Our Markets



Energy

## HPC

Customized solutions for AI, science, engineering and digital media backed by 70 years' experience pioneering HPC and scientific computing at scale

Carbon Storage

Mining

Infrastructure Monitoring

Environmental

Marine Logistics

Defense



# Our Markets

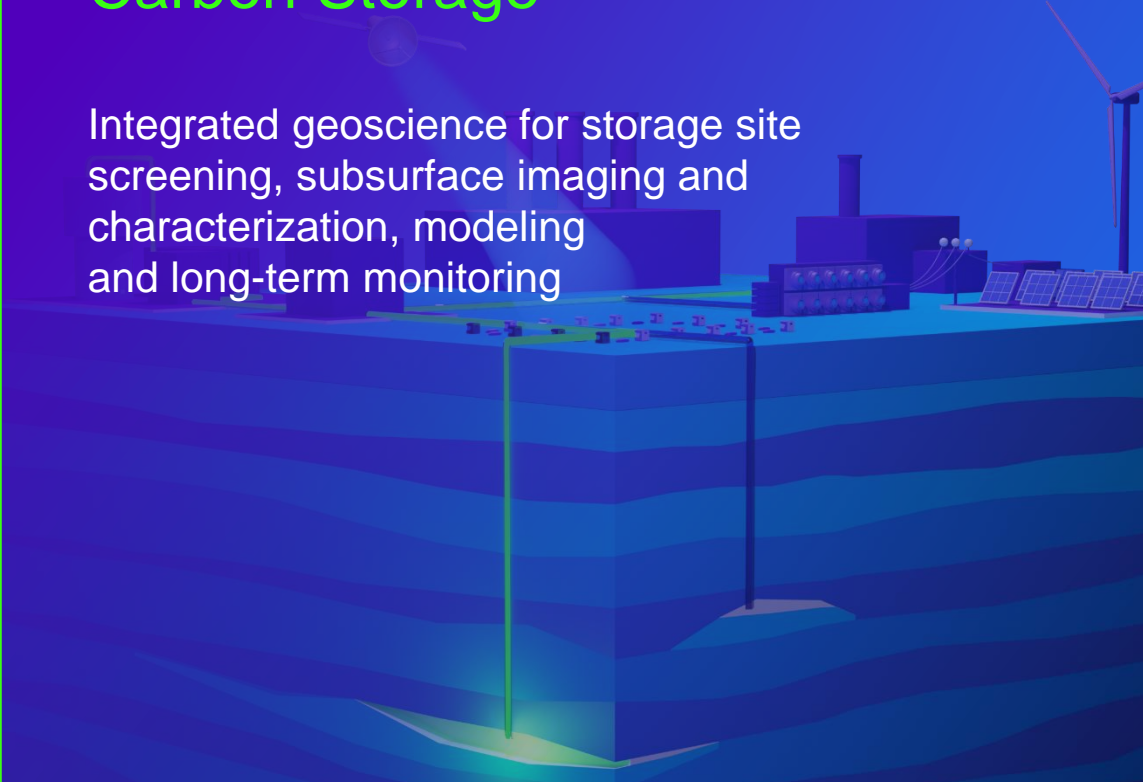


Energy

HPC

## Carbon Storage

Integrated geoscience for storage site screening, subsurface imaging and characterization, modeling and long-term monitoring



Mining

Infrastructure Monitoring

Environmental

Marine Logistics

Defense

# Our Markets



Energy

HPC

Carbon Storage

## Mining

Multi-disciplinary geoscience data and insights for responsible mineral exploration and development decisions



Infrastructure Monitoring

Environmental

Marine Logistics

Defense

# Our Markets



Energy

HPC

Carbon Storage

Mining

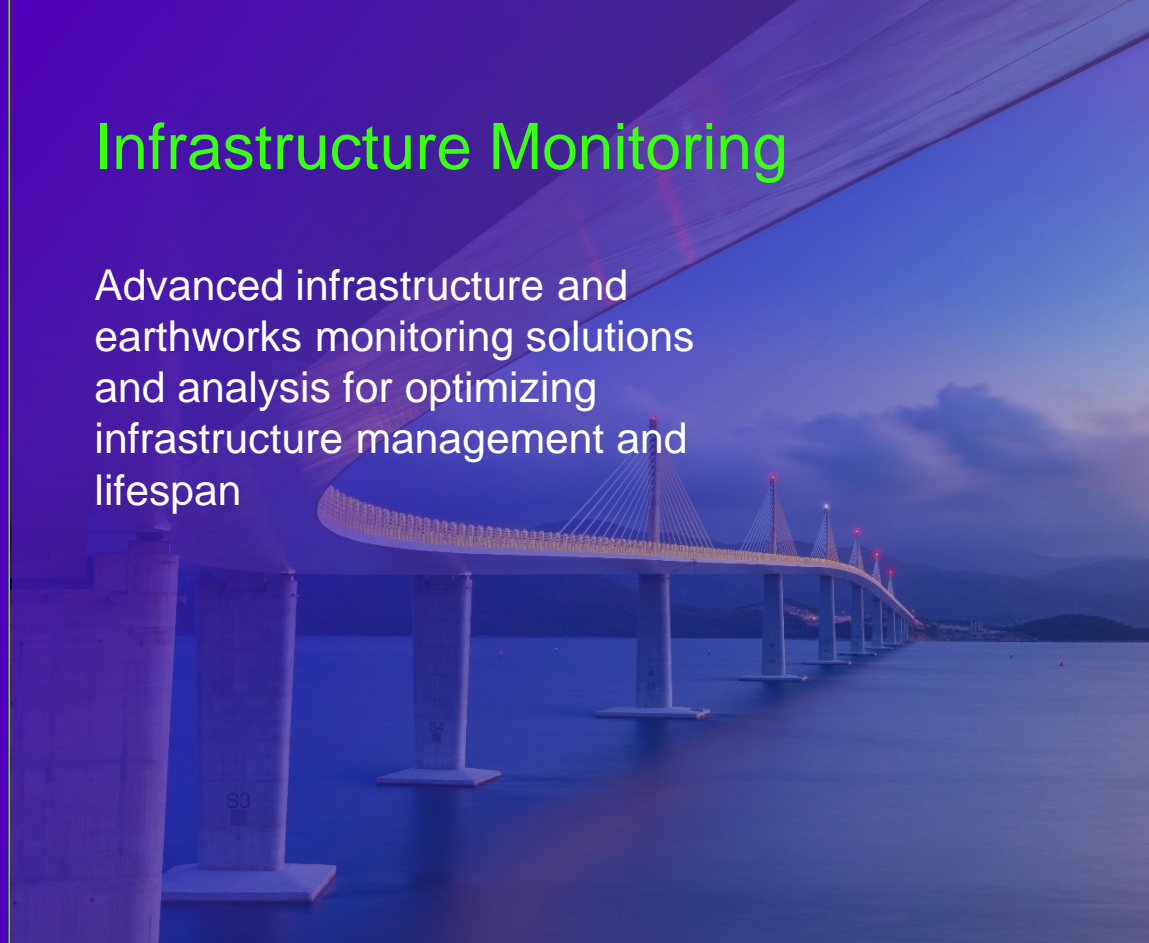
## Infrastructure Monitoring

Advanced infrastructure and earthworks monitoring solutions and analysis for optimizing infrastructure management and lifespan

Environmental

Marine Logistics

Defense





# Our Markets

Energy

HPC

Carbon Storage

Mining

Infrastructure Monitoring

## Environmental

Unique environmental intelligence through Earth science and data science expertise to address complex environmental challenges

Marine Logistics

Defense



# Our Markets



Energy

HPC

Carbon Storage

Mining

Infrastructure Monitoring

Environmental

## Marine Logistics

Intelligence for enhanced safety, security and efficiency in offshore and port operations



Defense

# Our Markets



Energy

HPC

Carbon Storage

Mining

Infrastructure Monitoring

Environmental

Marine Logistics

## Defense

Innovative solutions for marine surveillance and underwater security with custom-engineered marine acoustics and cables







# OUR SOLUTIONS

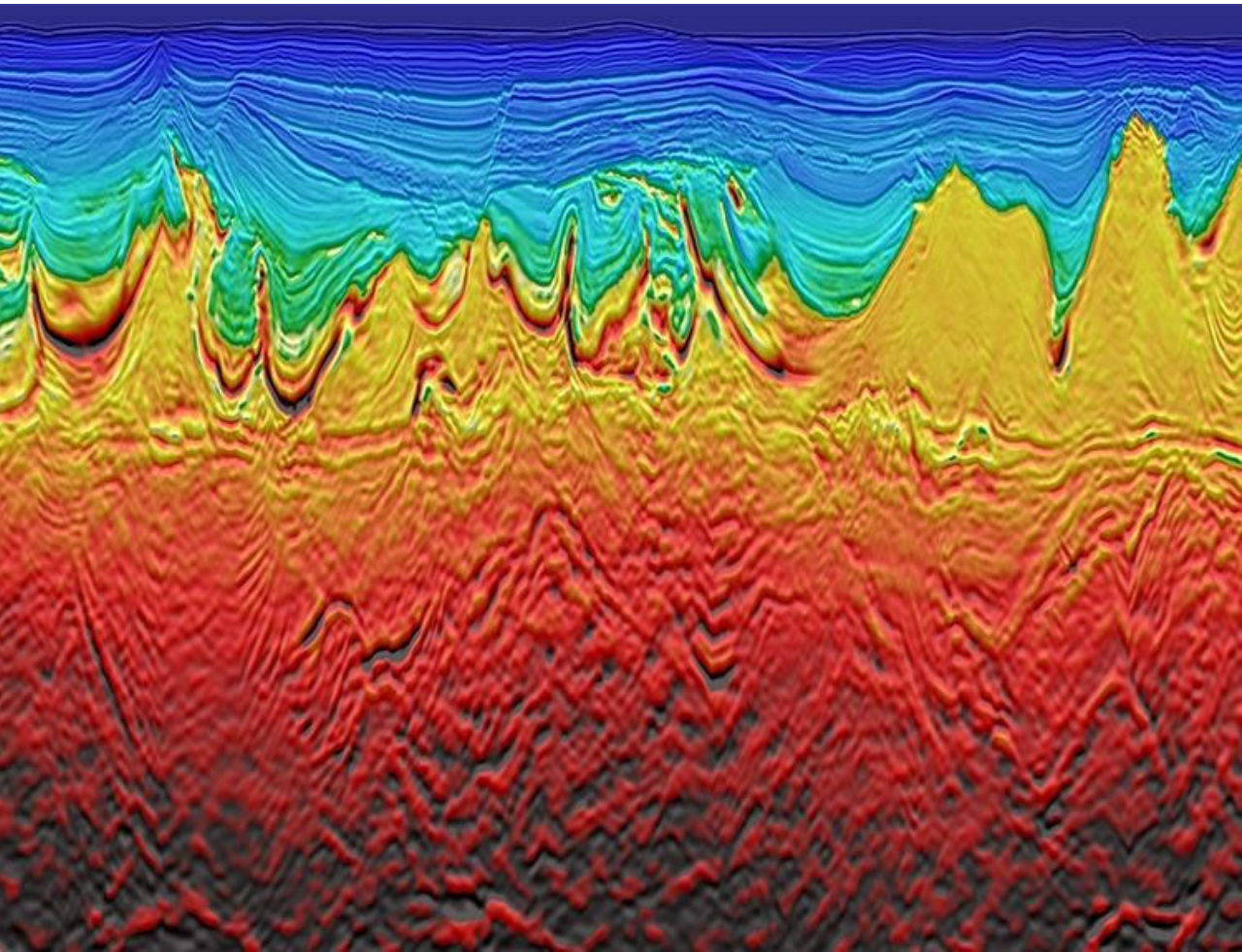


MEETING TODAY'S  
growing energy demands



# Our Solutions for Hydrocarbon Exploration & Development

Accelerating exploration and optimizing field development with geoscience technology and expertise



**Integrated geoscience expertise, best-in-class imaging technologies, leading seismic equipment solutions and high-end Earth data**

**RECOGNIZED LEADERSHIP IN HIGH-END SUBSURFACE IMAGING**

**THE MOST ADVANCED AND RECENT MULTI-CLIENT DATA IN KEY LOCATIONS**

**MULTIDISCIPLINARY EXPERTISE ACROSS GEOLOGY | GEOPHYSICS | RESERVOIR**

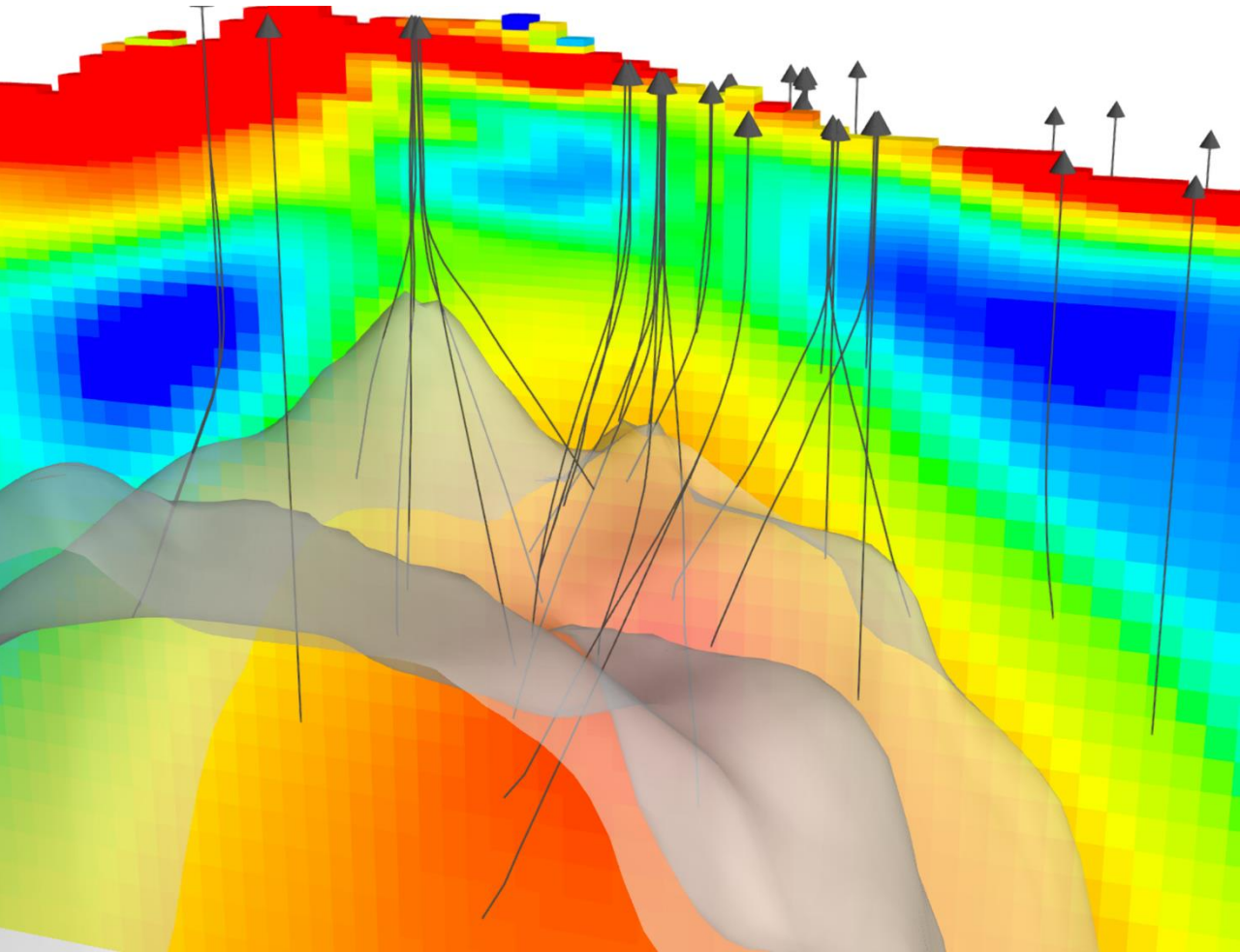
**THE LEADING SEISMIC EQUIPMENT SOLUTIONS AND SERVICES**





# Our Solutions for Renewable Energy

Delivering data and insight for new energy projects, from geothermal and native hydrogen to wind and solar



**Global datasets, multi-disciplinary expertise and monitoring solutions**

GLOBAL GEOTHERMAL, LITHIUM BRINE AND NATIVE HYDROGEN STUDIES

MULTIPHYSICS FOR GEOTHERMAL RESOURCE DEVELOPMENT

SITE SUITABILITY AND SCREENING FOR WIND AND SOLAR

MONITORING SOLUTIONS AND DIGITAL TWIN FOR RENEWABLES

An aerial photograph of a tropical island with a boat on the water. The island is covered in dense green forest and is surrounded by clear blue water. A small boat is visible in the middle of the water, leaving a white wake. The overall scene is serene and natural.

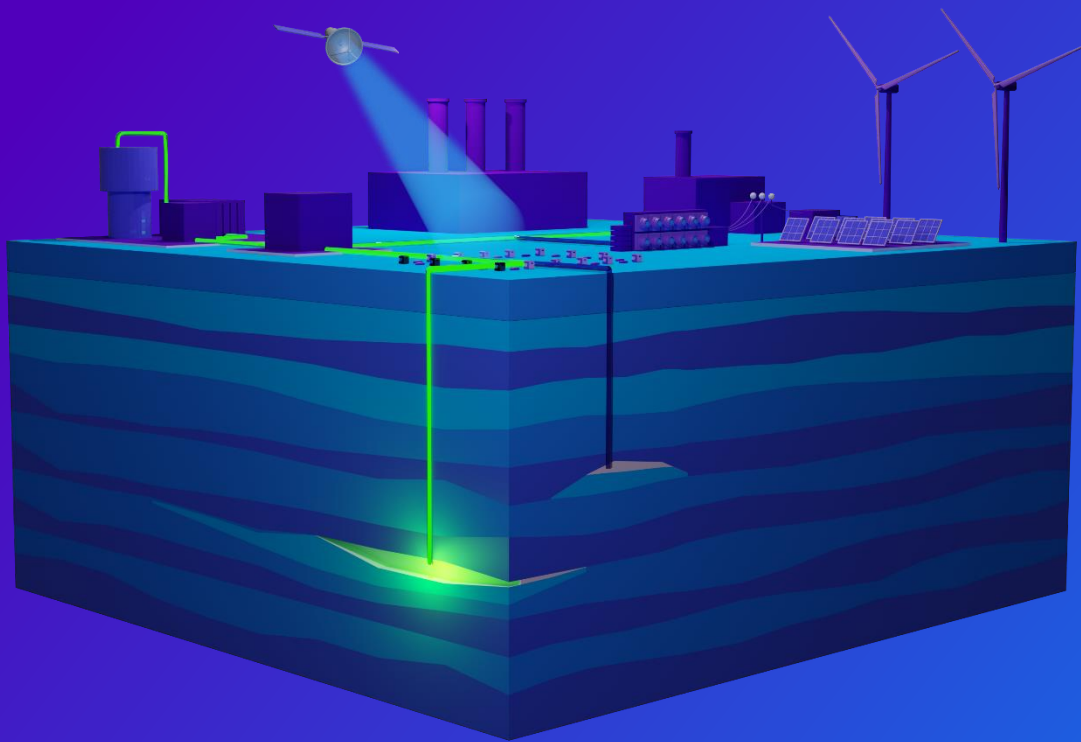
# SUPPORTING TOMORROW'S

low carbon and energy transition solutions



# Our Solutions for Carbon Storage & Monitoring

Combining expertise, technology and data to identify, de-risk and optimize CO<sub>2</sub> storage projects, and jointly offered CCS solutions with our Baker Hughes alliance



## Integrated geoscience solutions for storage site screening, characterization and monitoring

REGIONAL  
SCREENING DATA

RESERVOIR  
IMAGING

PLANNING AND  
SIMULATION

MONITORING  
SOLUTIONS

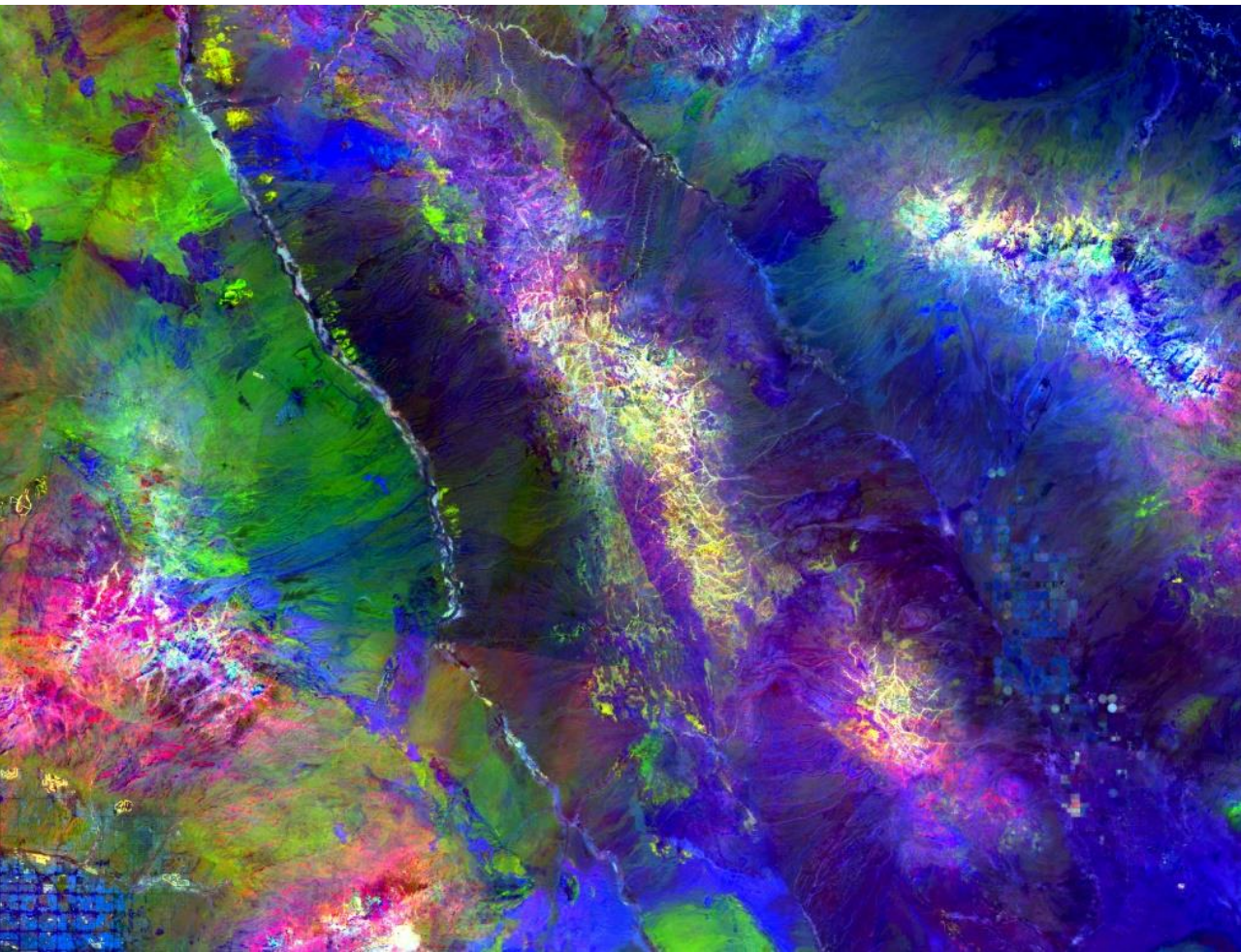
15 YEARS OF DELIVERING IMPACTFUL  
RESULTS FOR CARBON STORAGE





# Our Solutions for Critical Mineral Exploration & Development

Providing unique datasets and expertise for mineral exploration, and new technology to derisk deep mineral exploitation



**Combining expertise, imaging technologies and Earth data**

UNIQUE DATASETS FOR MINERAL EXPLORATION

INTEGRATED IMAGING SOLUTIONS FOR DEEP MINERAL EXPLORATION

SENSOR SOLUTIONS AND SATELLITE INTELLIGENCE FOR PRODUCTION AND CLOSURE MONITORING



# ENABLING ACCESS

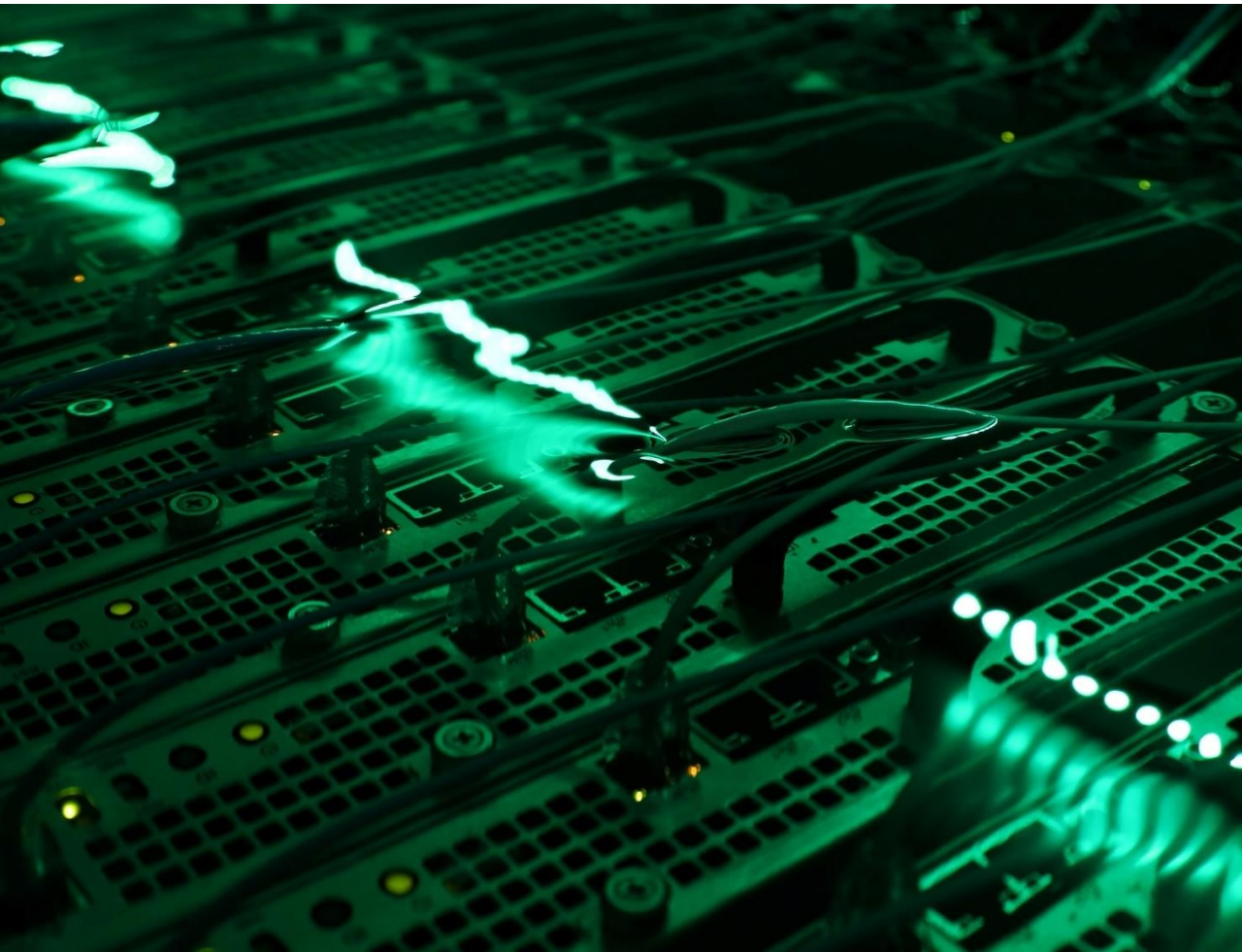
To the accelerating capabilities of digital technology





# Our Solutions for High-Performance Computing

70 years of pioneering end-to-end optimized HPC industrial computing at scale, globally. 100% powered by renewable energy



**Custom HPC and cloud solutions that scale with your business**

500+ PFLOP COMPUTE CAPACITY

HIGHLY-OPTIMISED FOR GEOSCIENCE, AI, LIFE SCIENCE AND DIGITAL MEDIA

OUTCOME-AS-A-SERVICE  
PRODUCTION-BASED PRICING

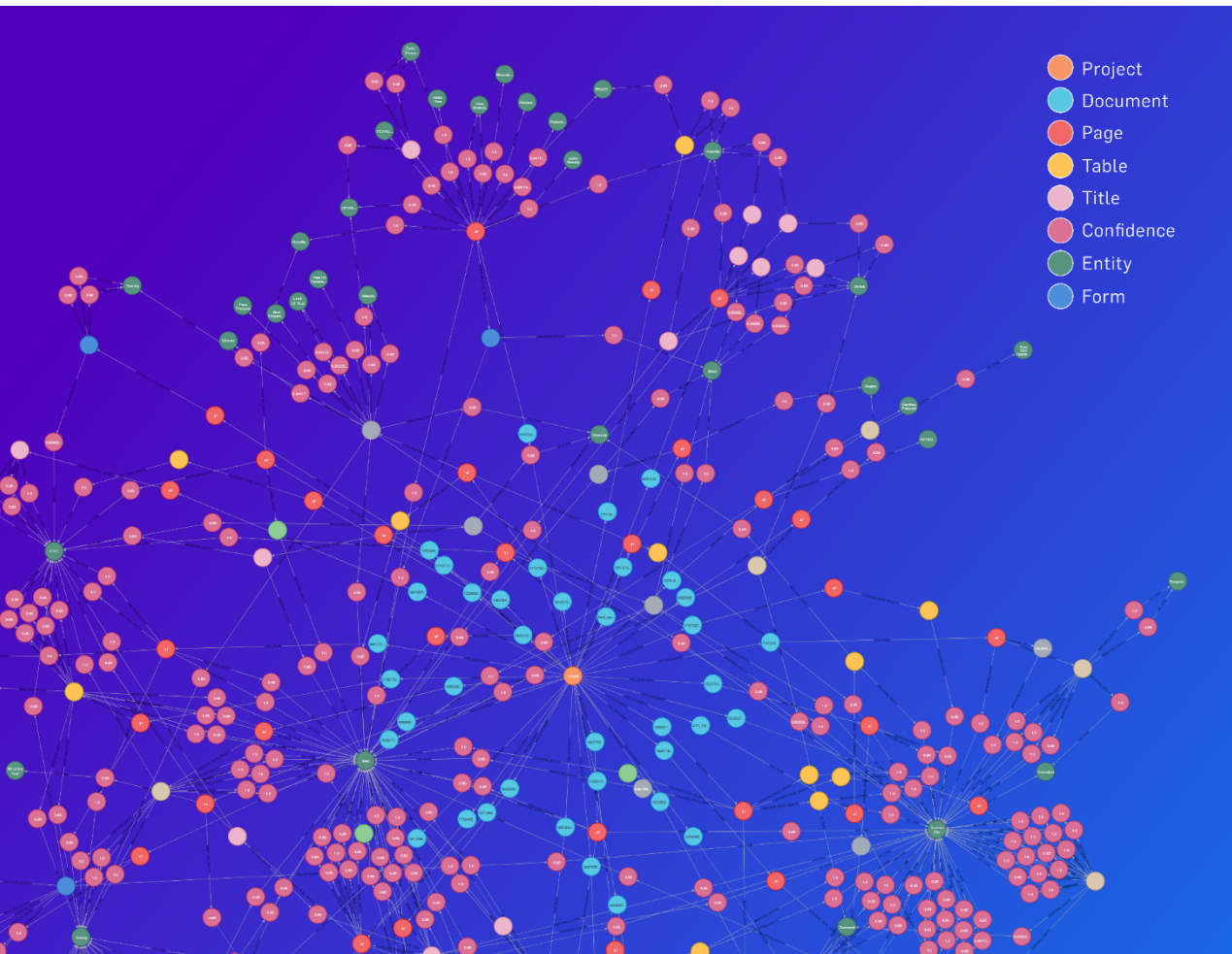
SUSTAINABLE HPC WITH IMMERSION COOLING AND RENEWABLE ENERGY





# Our Solutions for Data Transformation

Maximize the value of your data and improve business decision quality, efficiency and predictability



**Expert data transformation, curation and delivery to accelerate workflows**

EXPERT TEAM OF DATA SCIENTISTS AND SUBJECT MATTER EXPERTS

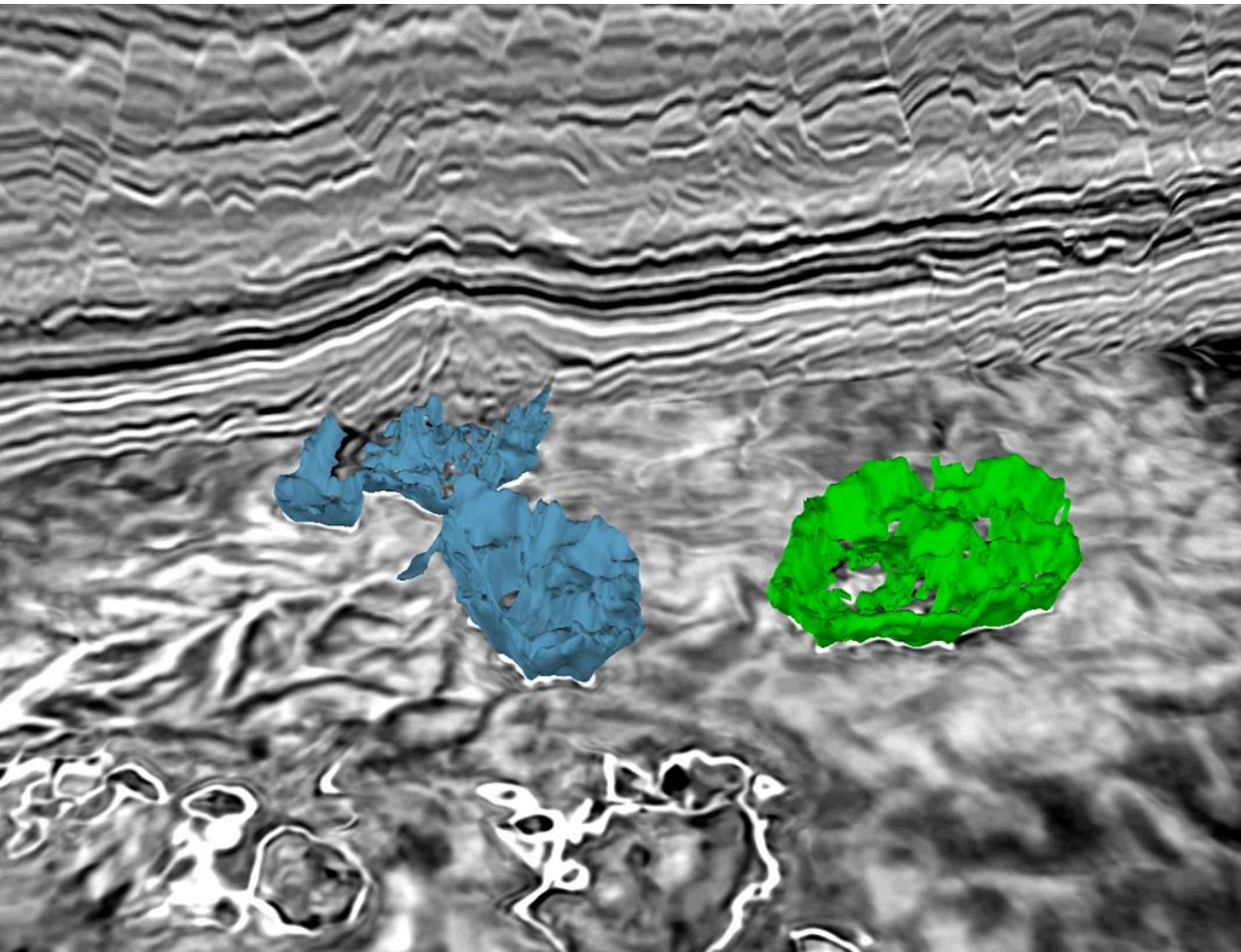
ADVANCED DATA TRANSFORMATION PIPELINE POWERED BY ML/AI

UNIQUE TAXONOMY AND OSDU INGESTION SOLUTIONS



# Our Solutions for Artificial Intelligence

Integrating cutting-edge ML & AI technology to drive innovation and transform workflows, with a focus on Geoscience, Life Sciences, Rendering and Inference



**Leverage our AI expertise and resources to enhance your business operations**

Collaborative AI Innovations

Advanced Generative AI Capabilities

Scalable AI Services and Platforms

Superior High-Performance Computing power





# ENHANCING LONGEVITY

through infrastructure monitoring





# Our Solutions for Structural Health & Earthworks Monitoring

Providing actionable insight to ensure safety, longevity and optimal performance of critical infrastructure



## Sensors, monitoring solutions and geotechnical expertise

ADVANCED SENSOR SYSTEMS AND SOLUTIONS FOR ALL ENVIRONMENTS

EARTH OBSERVATION DATA

DATA ANALYTICS AND INTERACTIVE DATA DELIVERY PLATFORMS



# OUR COMPANY

# Our Leadership



**Sophie Zurquiyah**  
Chief Executive Officer



**Jérôme Serve**  
Chief Financial Officer



**Peter Whiting**  
EVP Geoscience



**Dechun Lin**  
EVP Earth Data



**Eduardo Coutinho**  
EVP Group General Counsel



**Jérôme Denigot**  
EVP Sensing & Monitoring



**Hovey Cox**  
EVP Marketing & Sales and  
Communications



**Agnès Boudot**  
EVP HPC & Cloud Solutions



**Emmanuel Odin**  
Chief Sustainability Officer



**Emma Muller**  
Chief Human Resources Officer





# Our Global Services





# Our ESG commitments

Safety, Environment, Decarbonization, Inclusion, Diversity, Equity, Health and Sustainability

**Top tier ESG rating**



Achieve Net Zero\* by 2050  
50% reduction by 2030

2023 Emissions 24kTCO<sub>2</sub>\*,  
reduced by 58% since 2019  
70% low carbon energy mix  
in 2023

30% female in senior  
leadership by 2030

25% female in senior  
leadership in 2023


Maintain top quartile  
HSE performance

0.46 LTIF (2023)  
1.28 TRCF (2023)

\* Scopes 1 & 2



**MSCI ESG RATING**  
Top 3 among Oilfield Services



**SUSTAINALYTICS ESG RISK RATING**  
Low Risk: #9 among Energy Services



**ECOVADIS SILVER**  
SUSTAINABILITY RATING



Viridien is a supporter of the United Nations Global Compact (UNGC) as part of its commitment to being a responsible company

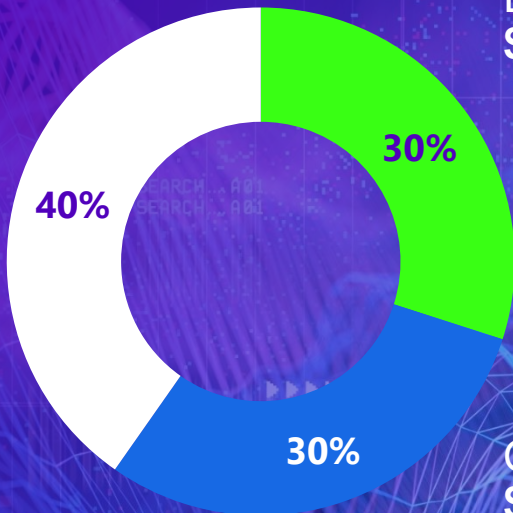




# Our Financial Performance: 2023 Full Year

In 2023, we significantly strengthened our financial performance

Sensing & Monitoring  
\$453 m



Earth Data  
\$337 m

Geoscience  
\$335 m

## Revenue

\$1,125 M | UP 21% Y-o-Y

## Adjusted EBITDAs

\$400 M | A 36% MARGIN

## Liquidity

\$417 M

## Net cash-flow

\$32\* M

\*Including \$(66)m penalty fees from vessel commitments



Our journey continues ...

We are driven to discover new insights, develop innovative technologies and deliver powerful solutions that support our clients in resolving their complex challenges efficiently and responsibly.

We Are Viridien.

