

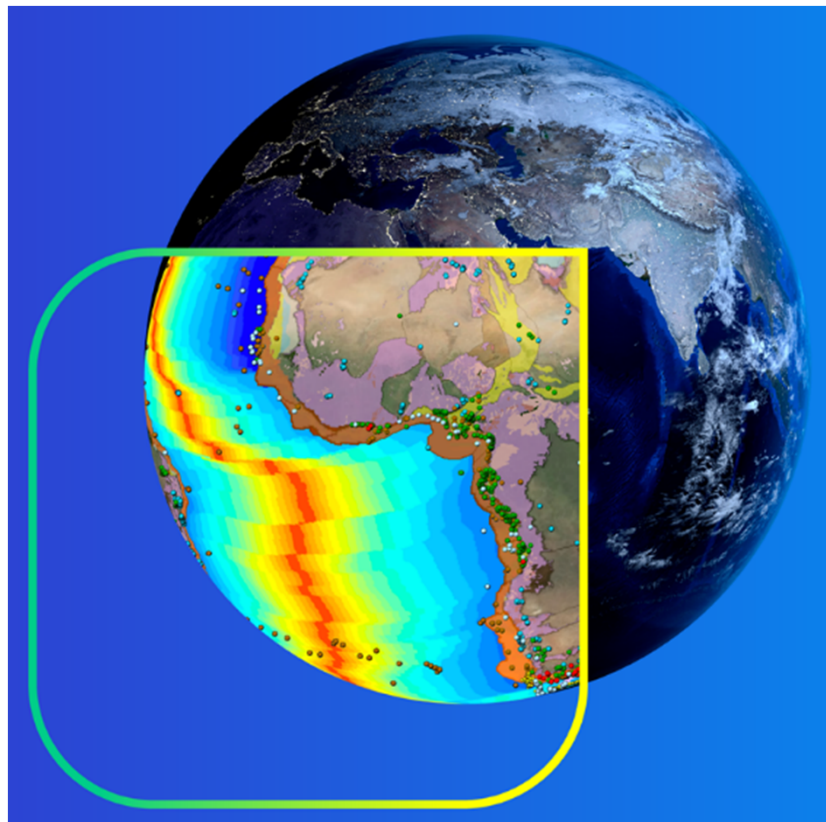
GEOSCIENCE TECHNOLOGY LEADERSHIP

cgg.com





Providing unique perspectives on our planet



SEE THINGS DIFFERENTLY

Providing a comprehensive range of **data, products, services and solutions** for complex natural resource, environmental and infrastructure challenges



HSE EXCELLENCE



PEOPLE



SOCIAL
RESPONSIBILITY



INNOVATION



QUALITY

Our values



We are problem solvers

Curious and passionate about constantly advancing science and technology to discover new insights, innovations and solutions for all our stakeholders



We are open

Always inclusive and believing good ideas can come from anyone, anywhere



We are responsible

Caring deeply about the Earth and doing the right thing, always acting safely and with integrity



We are driven to go beyond expectations

Continuously delivering outstanding service for our clients





Our ESG Commitments



Always act responsibly and abide by all applicable environmental laws



Continue to advance our data collection capabilities to best measure, monitor and continuously reduce our impact



Encourage and support our businesses and employees to take specific actions that support the environment, climate and communities

OUR ESG RATINGS

Recent MSCI **AA** rating scoring 76%
A leader in our sector

OUR CARBON NEUTRALITY STATEMENT



We pledge to be carbon neutral by 2050

By lowering our direct emissions (scope 1 & 2) to the lowest practical level and by bridging the gap to zero emission by way of carbon credits only if they are originating from our own activity

GHG emissions Scope 1 (K tons CO ₂ eq)	2019: 3 Kt 2020: 2 Kt	50% reduction by 2030 100% by 2050
GHG emissions Scope 2 (K tons CO ₂ eq)	2019: 55 Kt 2020: 51 Kt	50% reduction by 2030 90% by 2050
% Green Energy (total kwh consumption Scope 1 & 2)	H1 2020: 23% FY 2020: 30%	50% in 2030 90% in 2050 <i>or sooner depending on availability and prices</i>
Power Usage Efficiency (3 main centers)	2019: 1.33 2020: 1.32	<= 1.2 by 2030



Our leadership



Sophie Zurquiyah
CEO



Peter Whiting
Geoscience



Dechun Lin
Multi-Client



Emmanuelle Dubu
Acquisition & Equipment



Yuri Baidoukov
Finance



Eduardo Coutinho
Group General Counsel



Jerome Denigot
Human Resources



Hovey Cox
Marketing, Sales
and Communications



Emmanuel Odin
Health, Safety, Environment
Sustainable Development

Our Business Line Management



Peter Whiting
Geoscience

- Fred Li
VP SI EAME
- Tony Huang
VP SI NAM
- Qing Xu
VP SI APAC
- Chu-Ong Ting
SVP SI Research & Development and SI Brazil
- Sharon Howe
VP Digital Services & Innovation
- Dave Priestley
VP Energy Transition & Environment
- Chris Page
VP Natural Resource Science & Analytics



Dechun Lin
Multi-Client

- Bob Gauer
VP MCNV Gulf of Mexico
- Thomas Obidairo
VP MCNV, EAMEK and APAC
- Erling Frantzen
VP MCNV Scandinavia
- Erin Allen
Director, MCNV US Land
- Julio Perea
VP MCNV Brazil
- Christian Milne
VP Geosolutions and New Ventures
- Mark Ambrosi
Director, Data Management Technology, MCNV
- Mark Paton
VP GeoSpec



Emmanuelle Dubu
Acquisition & Equipment

- Jean-Cedric Prouvost
VP Strategy & Diversification
- Yannick Seguin
VP Marketing & Sales Group
- Daniel Boucard
SVP Technology



Financial overview • 2020 full year



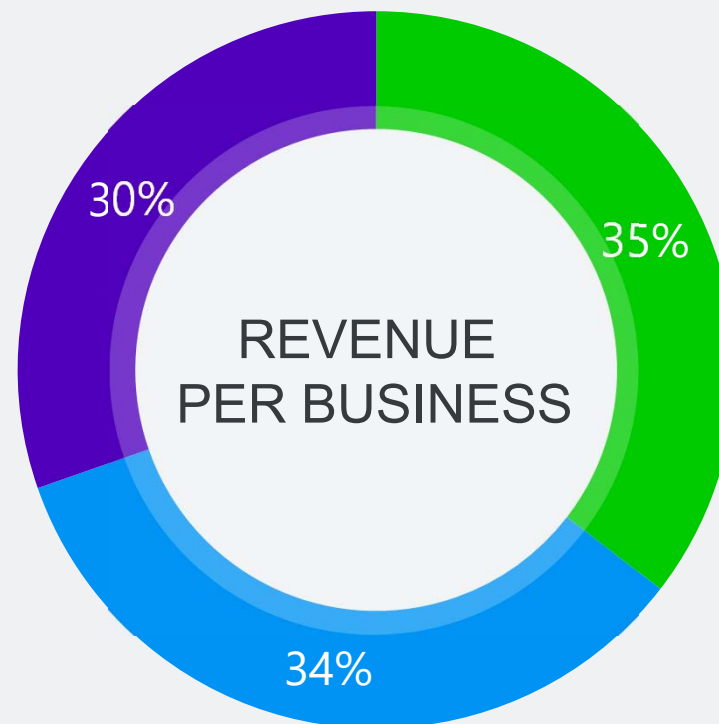
REVENUE
\$955 m



EBITDAS
\$361 m



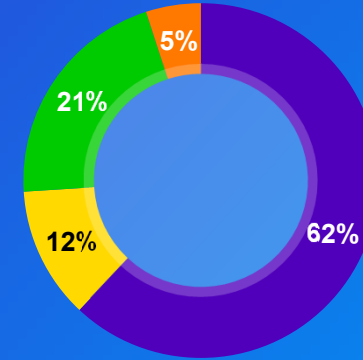
NET DEBT AT
\$849 m



■ Geoscience ■ Equipment ■ Multi-client

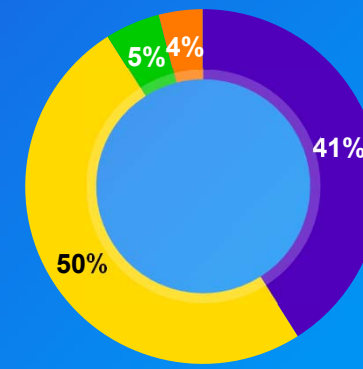


Global services & expertise



Staff allocation by activity

- Operations
- R&D
- Support
- Sales



Staff allocation by Division

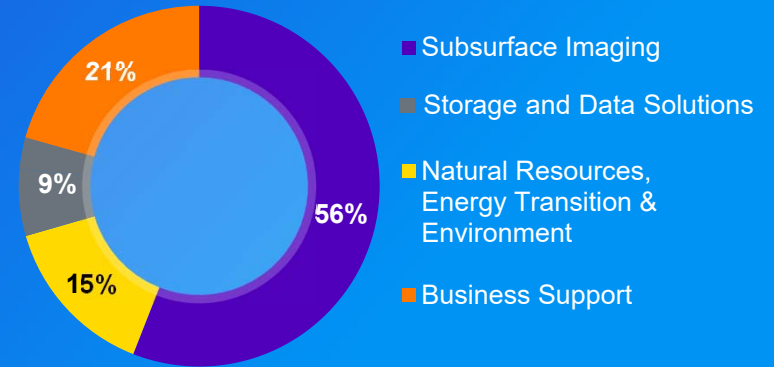
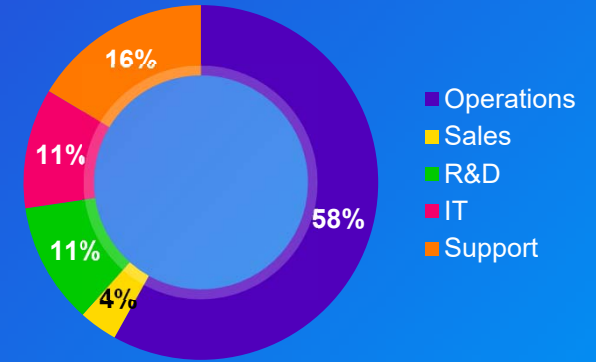
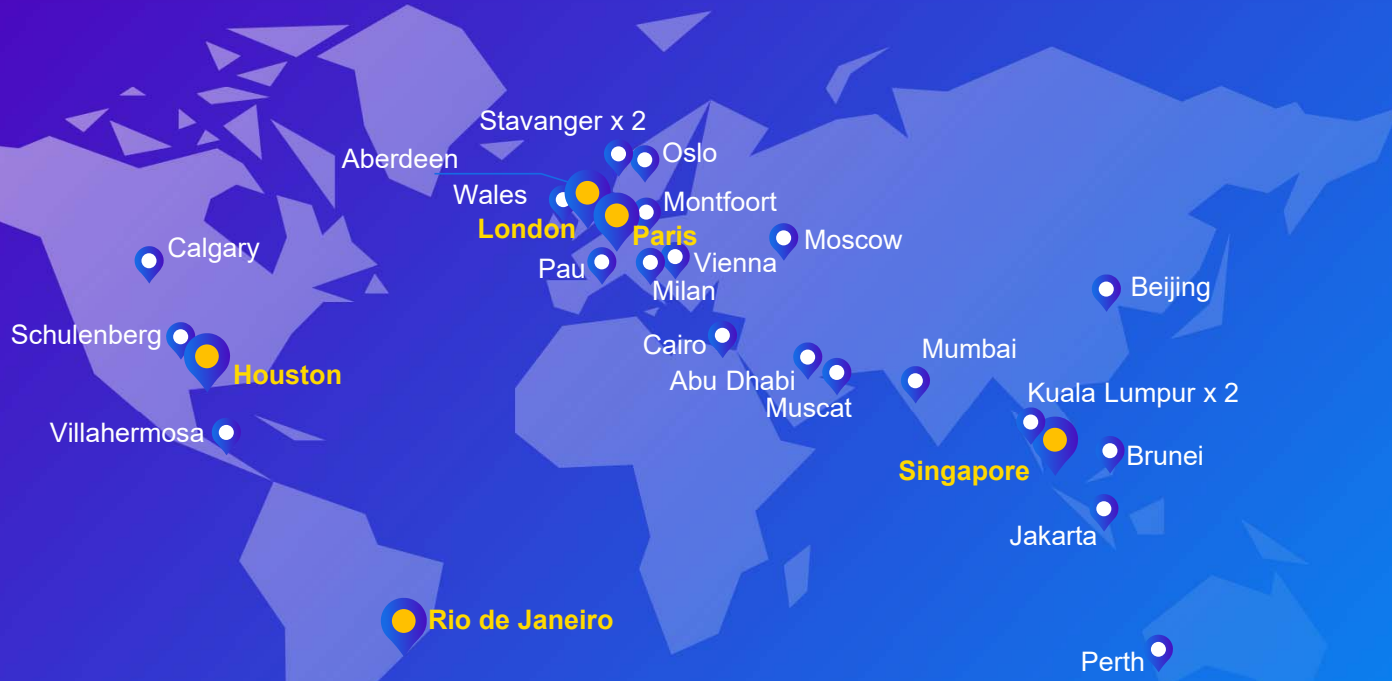
- Equipment
- Geoscience
- Support
- Multi-client

Geoscience

28 Locations Globally
70% post graduate degrees
26% PhDs



Geoscience Global Footprint



Geoscience

28 Locations Globally

- 16 Subsurface Imaging open centres
- 7 Subsurface Imaging dedicated centres

Technical Staff

- 70% post graduate degrees
- 26% PhDs



Our perimeter

OUR STRENGTHS

Remarkable data & technology

Unique Earth data library, imaging, geoscience & digital technologies

Outstanding people & performance

Ingenuity, diversity and expertise driving innovation and exceeding expectations

Resolute ESG commitments

Enabling our clients to be more efficient, effective, responsible and sustainable

THREE CORE BUSINESSES



Geoscience

Established leader in subsurface imaging, geology and geoscience services



Multi-client

The industry's most technically advanced seismic data and geologic studies in the world's key locations



Equipment

Established leader in marine, land, ocean floor and downhole seismic equipment and gauges



Investing in growth opportunities

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NEW APPLICATIONS



Earth Data Library

Growing portfolio of digital products for natural resource and energy transition activities, backed by a unique taxonomy and data ecosystem



Energy Transition

Supporting industry transition with technology, data and expertise for CCS, geothermal and critical minerals



Monitoring & Observation

Structural health & earthworks monitoring solutions with advanced sensors and Earth observation and Environmental Sciences expertise



Digital Sciences

Data transformation, data science, AI, machine learning, CGG Cloud services and HPC expertise

Our expanding portfolio of services



ENERGY TRANSITION



Geothermal

Evaluate resource potential, optimize and monitor geothermal developments with greater subsurface insight



Minerals & Mining

Increase awareness at every stage of the mining life cycle from exploration studies to production and closure monitoring programs



CCS & Energy Storage

Expertise for screening, evaluating and monitoring sub-surface storage, and risks

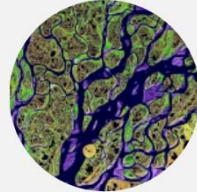
EARTH DATA



Multi-Client Earth Data Library

Growing portfolio of digital **GeoVerse** products for natural resource and energy transition activities, backed by a unique taxonomy and data ecosystem

MONITORING & OBSERVATION



Environmental Sciences

Improve awareness of local and global environmental changes using geoscience data, technology and analytics



Infrastructure & earthworks

Detailed and continuous situational awareness to respond to hazards and optimize preventative maintenance

DIGITAL



Digital services & solutions

Our investments in data science, AI, machine learning, cloud services and HPC drive innovation. Data transformation delivered by our Data Hub experts.



Our Geoscience ecosystem



Subsurface Imaging

Unmatched expertise, advanced geoscience & digital algorithms and excellent service in every image



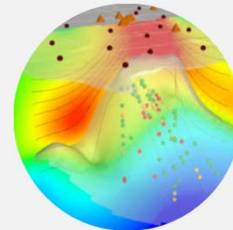
Geology & Engineering

Leading geological and reservoir services and consultancy for natural resource development



Energy Transition

Applying our geoscience and digital expertise to Geothermal, CCUS, Critical Mineral and Environmental analysis & monitoring



Multiphysics

Expert analysis and interpretation of multi-domain geophysical data for natural resources and environmental applications



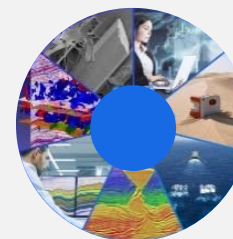
Earth Observation

Intelligence from imagery for Energy, Mining, Engineering, Environment and Defense



Digital Sciences

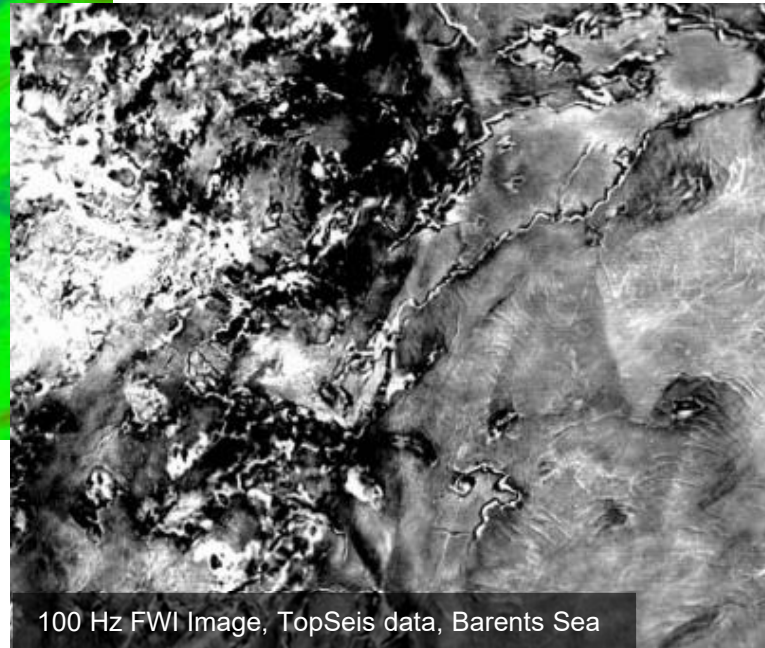
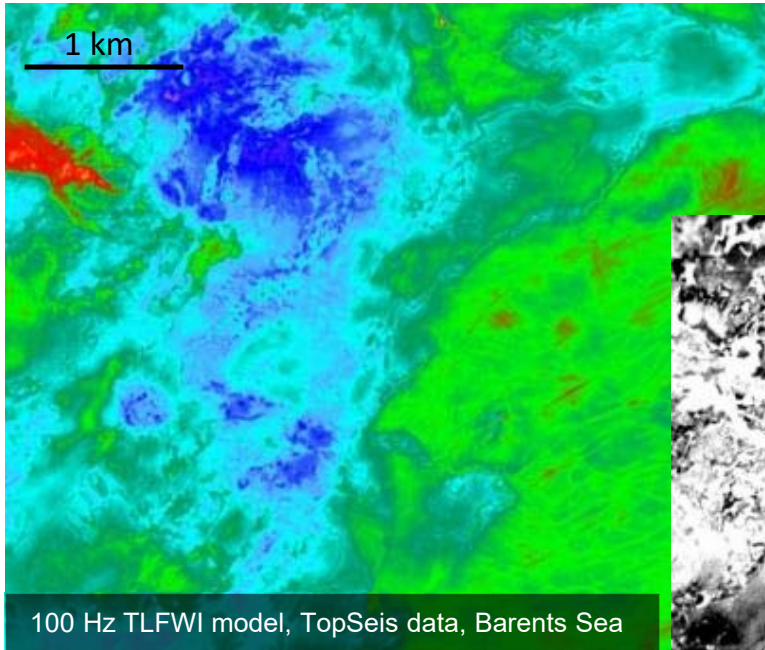
Bespoke HPC & Cloud services, data transformation, machine learning and AI



GeoTraining

Bringing together the full breadth of CGG's capabilities to provide comprehensive learning path programs

Advanced FWI algorithm providing superior image resolution



Advanced FWI Imaging Technology

- Advanced FWI algorithm to invert velocity and image from field data in one-go

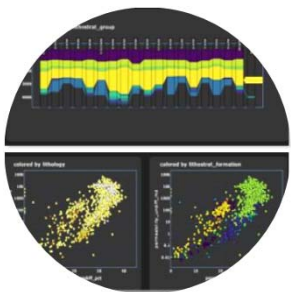
Step-change Image Resolution

- Drilling locations can be more accurately selected to avoid hazards and target reservoirs

High frequency FWI for the most accurate velocity and image



Our digital services & expertise



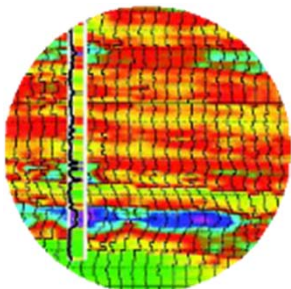
Data Transformation

Expert **DataHub** data transformation, classification and integration for analytics and interpretation



HPC Services

Access to highly-optimized HPC resource & digital platform, and consulting services



Machine & Deep Learning

Core **AI Lab** expertise for ML/DL applications across geoscience, Earth observation, environmental science and data transformation



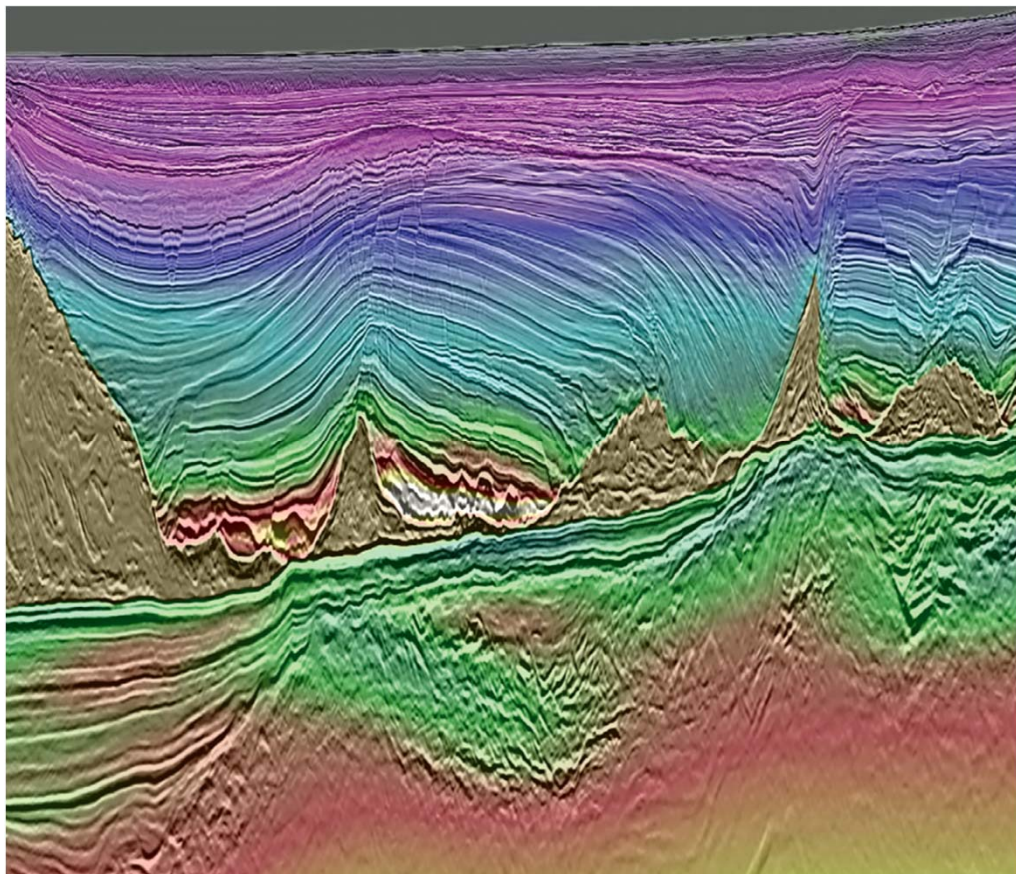
Cloud Services

Secure and efficient access to our exceptional HPC resources for geoscience and beyond with **CGG Cloud**

> TAKING DATA FURTHER



Multi-Client Data



TLFWI reimagining highlights pre-salt reservoirs, Santos Basin, Brazil
CGG Multi-Client

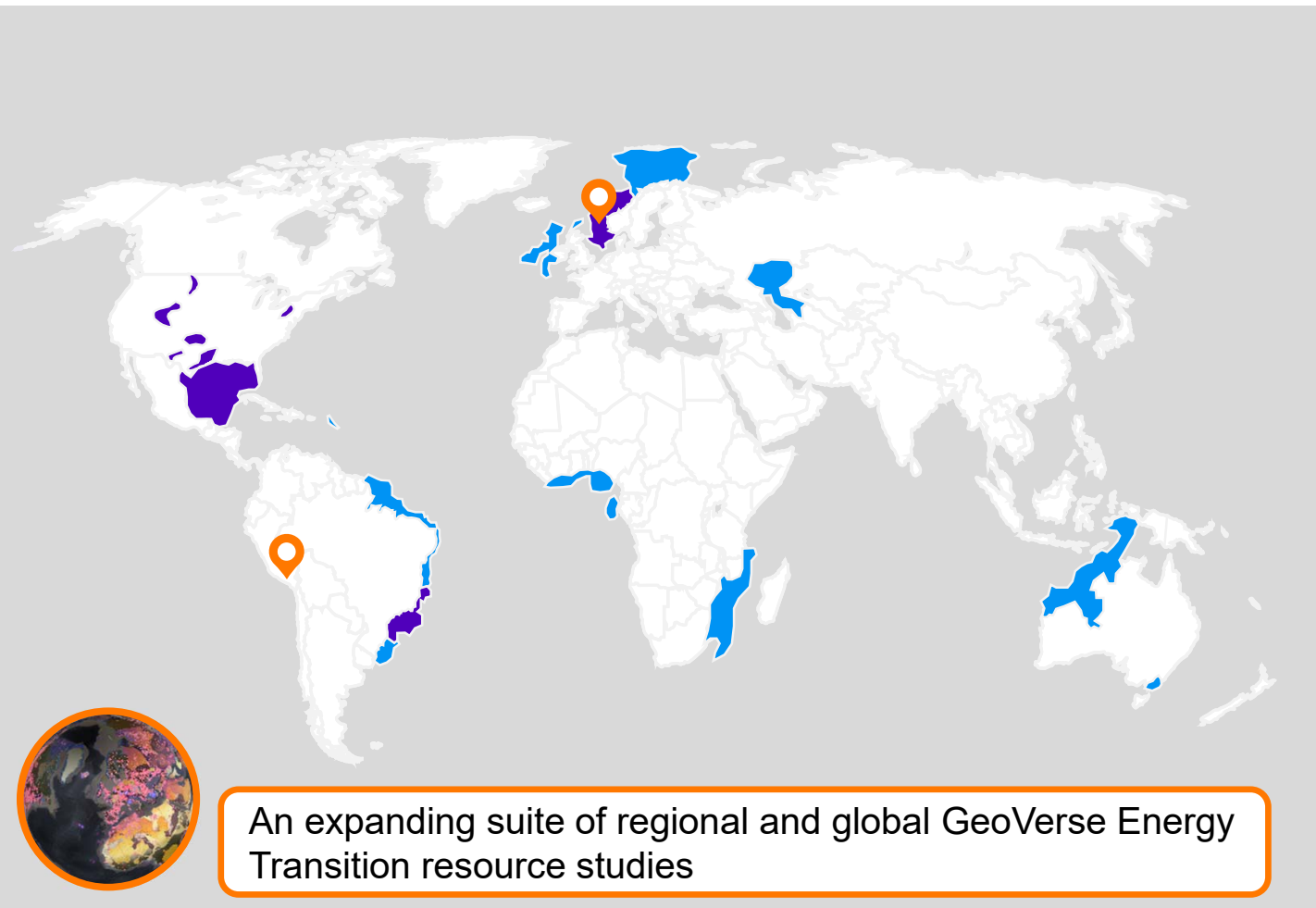
**The most recent and advanced data
in the world's key basins and frontiers**

- The highest quality seismic data library
- GeoVerse analytics-ready Earth data
- GeoSpec enhanced legacy data

**➤ The right data, in the right
place at the right time**



An evolving suite of seismic and Earth data products



Core Basins

- Gulf of Mexico, Brazil pre-salt, Onshore US, North Sea
- High-end 3D, OBN and reimaging for near-field exploration, reservoir development & production



Developing

- Australia, Africa, Equatorial Brazil, North West Europe & Barents Sea
- 3D and integrated geoscience studies

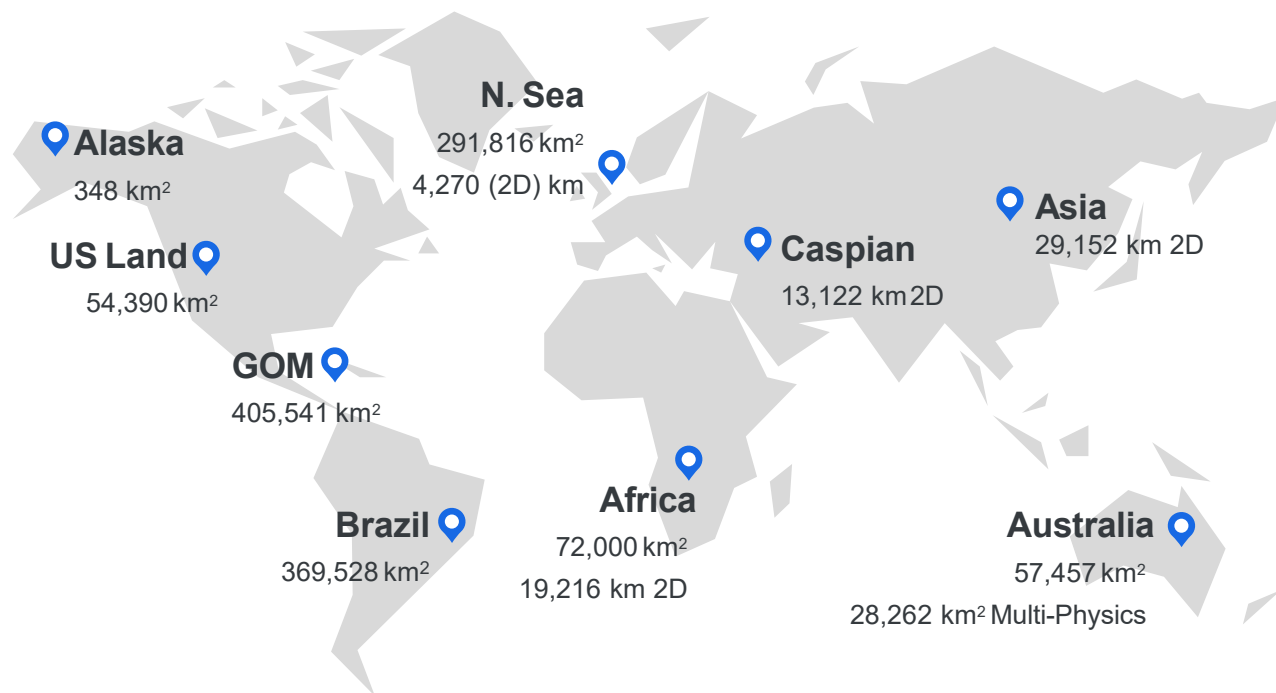


Energy Transition Studies

- Global Geothermal Resource Assessment
- Carbon Storage Screening, North Sea
- Paleo-salar Lithium study, South America



A successful strategy for multi-client footprint in mature basins



> 1.25 million km²

Leading coverage Brazil pre-salt with new acquisition

Reimaging projects in Gulf of Mexico generating new interest

Extensive contiguous datasets in North Sea featuring new OBN and dual azimuth coverage

Renewed interest in US Land and new high-quality datasets

GEOLOGY & SATELLITE

500 Geologic Studies
1,000 Petroleum system analyses
Global hydrocarbon seep database

GEOSPEC - LEGACY SEISMIC

695,767 km² 3D worldwide
4,490,237 km 2D worldwide



Digital solutions enrich Multi-Client offering


Versal



Unified seismic data ecosystem
CGG | TGS | PGS

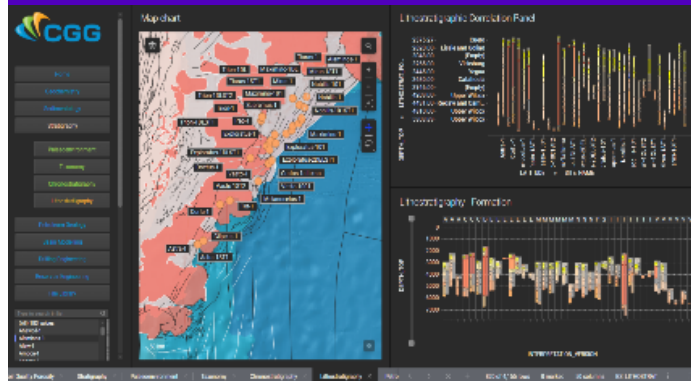
Unified seismic data ecosystem offering 70% of the world's multi-client seismic data

GeoVerse



A global integrated geological database ready for licensing

GeoWells



Advanced multi-discipline well data available in GOM (Mexico), Brazil pre-salt basins, and Norway

➤ BUILDING AN ECOSYSTEM AND GLOBAL DIGITAL DATABASE FOR A NEW GENERATION OF MULTI-CLIENT PRODUCTS & SERVICES



Our Sercel Offerings



Sercel designs and manufactures high-tech solutions for subsurface exploration. Capitalizing on its world-leading position in the seismic acquisition industry, Sercel also provides innovative solutions for structural monitoring, defense, earth monitoring and energy transition.

- Full range of onshore, offshore & downhole products
- Industry benchmark and market leader
- Unequaled product reliability & customer support

> IMAGING THE DEPTHS



A diversified Sercel scope



Oil & Gas

Seismic solutions for imaging and monitoring the subsurface and production monitoring gauges



Energy Transition

Seismic solutions for subsurface imaging and monitoring of geothermal, CCS, critical minerals and offshore wind



Structural Monitoring

Sensors and monitoring solutions for infrastructure



Earth Monitoring

Microseismic earthquake monitoring solutions

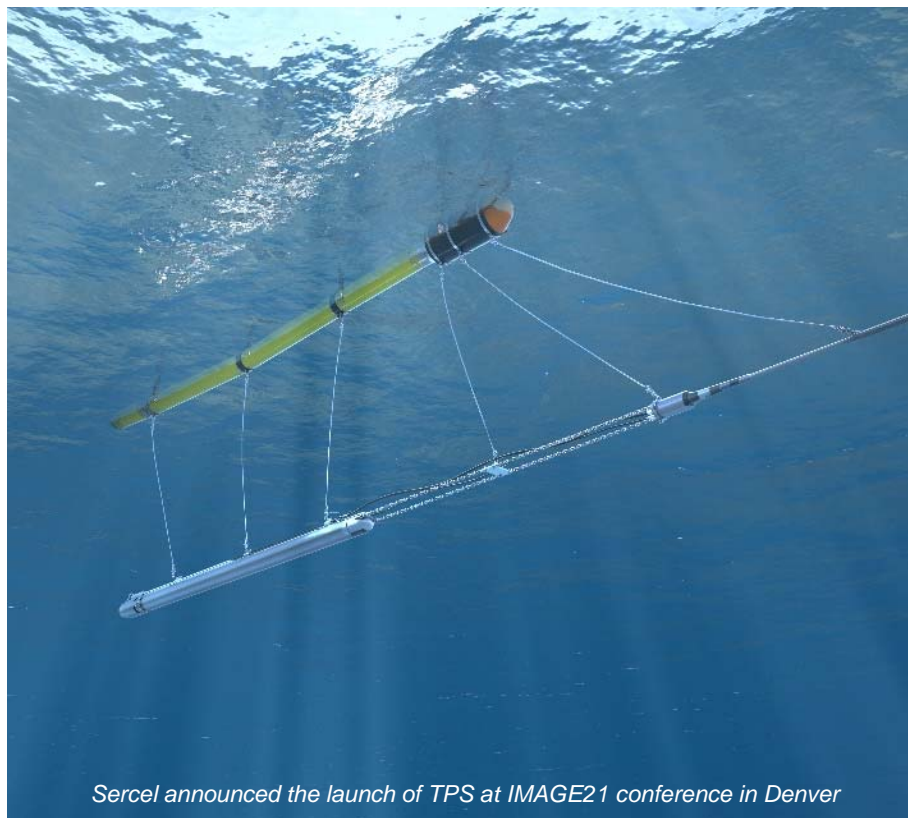


Defense

Custom-engineered marine acoustics and cable solutions



Equipment operational highlights



Sercel announced the launch of TPS at IMAGE21 conference in Denver

Oil & Gas

- Strong Q3 2021 deliveries of land seismic systems
- Strong interest for Quietseis™ with significant orders in both onshore cable and nodal solutions
- First deliveries of the major GPR300 OBN node order on schedule
- Official launch of the TPS (Tuned Pulse Source) after successful in-sea tests in the Gulf of Mexico this summer
- Downhole memory gauge for production monitoring activity resilient

Structural Monitoring

- Earthworks monitoring: first commercial project for S-scan railtrack monitoring solution in France and tests in Russia



THANK YOU