Cautionary Statement

• This presentation contains forward looking information

• Forward looking information is based on management assumptions and analyses

• Actual experience may differ, and those differences may be material

• Forward looking information is subject to significant uncertainties and risks as they relate to events and/or circumstances in the future

• This presentation must be read in conjunction with other financial statements and the disclosures therein
<table>
<thead>
<tr>
<th>Marine Contract</th>
<th>MultiClient</th>
<th>Operations</th>
<th>Imaging &amp; Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Marine market leadership</strong>&lt;br&gt;28%* of 2016 revenues&lt;br&gt;Marine Contract delivers exclusive seismic surveys to oil and gas exploration and production companies</td>
<td><strong>Diverse MultiClient library – Improving financial performance</strong>&lt;br&gt;62%* of 2016 revenues&lt;br&gt;MultiClient initiates and manages seismic surveys which PGS acquires, processes, markets and sells to multiple customers on a non-exclusive basis</td>
<td><strong>Productivity leadership</strong>&lt;br&gt;Operations supports Marine Contract and MultiClient with vessel resources and manages fleet renewal strategies</td>
<td><strong>Technology differentiation – Rapidly becoming at par with industry best</strong>&lt;br&gt;9%* of 2016 revenues&lt;br&gt;Imaging and Engineering processes seismic data acquired by PGS for its MultiClient library and for external clients on contract and manages research and development activities</td>
</tr>
</tbody>
</table>

*Remaining 1% relates to Other revenues.*
PGS Positioning

Industry Leading Fleet

The Ultra High-end Ramforms

<table>
<thead>
<tr>
<th>Ramform Tera</th>
<th>Ramform Egas</th>
<th>Ramform Targa</th>
<th>Ramform Tigris</th>
<th>Ramform Tucano</th>
<th>Ramform Lotus</th>
</tr>
</thead>
</table>

High-end conventional (chartered)

High-end conventional (chartered)

Flexible capacity: High-end Ramforms

PGS average active fleet age/streamer count: 4.5 yr/14.2
Competition average fleet age/streamer count: 9.3 yr/12.2

The GeoStreamer Technology Platform: Much More than Broadband

Enhanced illumination and clearer earth model

GeoStreamer® with GeoSource™ The full deghosting solution

Reliable Quantitative Interpretation (QI) and rock properties

GeoStreamer® enabled separated wavefield imaging (CWI)

Increased efficiency and improved illumination

GeoStreamer – The New Business and Technology Platform
- Enhanced resolution, better depth imaging and improved operational efficiency
- Enables the best sub-surface image for reservoir understanding and well placement

Leading Broadband Technology

Beyond Broadband

New Acquisition

Strong MultiClient Position and Cash Flow

- Geographical spread for better risk management
- Lower cost and improved efficiency drive returns in weaker market: more data per USD
- Technology advantage – GeoStreamer & High End Imaging

A Strong Market Position

- PGS increases its market share to ~33% in 2017
- Lowest average age of active fleet in the industry
- PGS has the only fleet fully equipped with the latest technologies:
- Multicomponent streamers
- Streamer steering
- Source steering
- 12+ streamer count

Ready to capitalize on market recovery
Marine Seismic Market

- Substantial improvement in oil companies’ cash flow

- Contract market still challenging, but with pockets of opportunities
  - 4D production markets
  - Capacity constrained markets

- Industry more or less fully booked for Q2 and Q3

- Still limited visibility for the winter season
  - Even though improved from 2016
Order Book

• Order book of USD 340 million by end Q1 2017
  – Of which USD 196 million relates to MultiClient
  – Sequential increase of close to 60%
  – Highest level in two years

• Vessel booking*
  – ~100% booked for Q2 2017
  – ~75% booked for Q3 2017
  – ~35% booked for Q4 2017
  – ~15% booked for Q1 2018

*As of May 4, 2017, based on 9 active vessels and excluding cold-stacked vessels.
Market Activity

• Currently low bidding activity, but stable leads pipeline

• Seismic demand primarily driven by:
  – Positioning for strategically important license rounds
  – Seismic commitments in E&P licenses
  – Significant increase in production seismic, especially in North Sea, West Africa and Brazil

• Overall MultiClient market share expected to increase

Source: PGS internal estimate as of end April 2017. Value of active tenders and sales leads are the sum of active tenders and sales leads with a probability weight and represents Marine 3D contract seismic only.
• Seismic acquisition volume expected to increase ~10% in 2017 compared to 2016, with downside risk due to:
  – Low Q1 sq.km production
  – Change in mix with more 4D requiring more capacity per sq.km

• Industry streamer capacity will increase during the summer season due to delivery of Ramform Hyperion and vessels coming back from warm-stack
  – 2017 summer season capacity approx. 35-40% lower than 2013 peak
  – Warm stacking used by the industry for flexible capacity as long as streamers are available

• Global streamer pool continues to shrink

Improved market balance for Q2/Q3

Source of both graphs: PGS internal estimates.
Production Seismic is Growing Significantly
PGS with Premium Offering

- Oil companies investing more in producing fields and fields under development
- Number of production seismic (4D) projects will more than double in 2017 compared to 2016, and is expected to increase further in 2018
- PGS will do more than 50% of the global 4Ds for 2017
- 4D activity increasing in North Sea, West Africa and Brazil
- PGS well positioned in the 4D market

Source: PGS internal estimates.
Achieved Y-o-Y Summer Season Price Increases
Average Dayrate of Sold Marine Contract Projects

- Somewhat tighter Q2/Q3 market
  - Opportunity driven price increases

- Increased share of 4D

- Increased interest for seismic data with longer shelf-life

- Differentiating offering:
  - Highly competitive and productive vessels
  - Unique GeoStreamer technology

### Active capacity allocation*

<table>
<thead>
<tr>
<th></th>
<th>Contract</th>
<th>Regions with contract activity</th>
<th>MultiClient</th>
<th>Regions with MultiClient activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q2 16</td>
<td>73%</td>
<td>Asia, South-America, Europe</td>
<td>27%</td>
<td>Europe, Midle East, North America</td>
</tr>
<tr>
<td>Q2 17</td>
<td>~70%</td>
<td>Europe, West Africa, Middle East, Asia</td>
<td>~30%</td>
<td>Europe, North America</td>
</tr>
<tr>
<td>Q3 16</td>
<td>42%</td>
<td>South-America, West-Africa, Asia</td>
<td>58%</td>
<td>Europe, North America</td>
</tr>
<tr>
<td>Q3 17</td>
<td>~25%</td>
<td>West Africa, Europe, Asia</td>
<td>~75%</td>
<td>North America, Europe, Middle East</td>
</tr>
</tbody>
</table>

*Percentage of the active fleet allocated to contract and MultiClient, subject to changes in the vessel schedule.
Industry Leading MultiClient Performance

- Strategic priority since 2010 to increase weighting of the MultiClient business
  - Brings greater stability to overall Group performance in a highly cyclical market
  - MultiClient share of total market will continue to increase going forward

- Revenues currently dominated by MultiClient
  - 51% of revenues in Q1 2017
  - Most of EBITDA is generated by MultiClient activities
  - GeoStreamer, leading productivity and advanced, high quality imaging drives higher returns from library

- Retains flexibility to leverage a recovery in the marine contract market
  - Marine contract player with differentiating productivity and technology
MultiClient Vintage Distribution

- MultiClient library book value of USD 626.7 million as of March 31, 2017
  - Down from USD 647.7 million in previous quarter

- Moderate net book value for surveys completed 2012-2015

- Q1 2017 amortization rate of 88%
  - High due to low sales combined with straight-line amortization of completed surveys

- 2017 amortization expense expected to be in the range of USD 350-375 million
Financial Summary

**Revenues**

USD million

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 15</td>
<td>251</td>
</tr>
<tr>
<td>Q2 15</td>
<td>256</td>
</tr>
<tr>
<td>Q3 15</td>
<td>226</td>
</tr>
<tr>
<td>Q4 15</td>
<td>229</td>
</tr>
<tr>
<td>Q1 16</td>
<td>203</td>
</tr>
<tr>
<td>Q2 16</td>
<td>183</td>
</tr>
<tr>
<td>Q3 16</td>
<td>224</td>
</tr>
<tr>
<td>Q4 16</td>
<td>154</td>
</tr>
<tr>
<td>Q1 17</td>
<td>155</td>
</tr>
</tbody>
</table>

**EBITDA**

USD million

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 15</td>
<td>128</td>
</tr>
<tr>
<td>Q2 15</td>
<td>125</td>
</tr>
<tr>
<td>Q3 15</td>
<td>115</td>
</tr>
<tr>
<td>Q4 15</td>
<td>117</td>
</tr>
<tr>
<td>Q1 16</td>
<td>80</td>
</tr>
<tr>
<td>Q2 16</td>
<td>69</td>
</tr>
<tr>
<td>Q3 16</td>
<td>113</td>
</tr>
<tr>
<td>Q4 16</td>
<td>53</td>
</tr>
<tr>
<td>Q1 17</td>
<td>30</td>
</tr>
</tbody>
</table>

**EBIT**

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 15</td>
<td>14</td>
</tr>
<tr>
<td>Q2 15</td>
<td>16</td>
</tr>
<tr>
<td>Q3 15</td>
<td>9</td>
</tr>
<tr>
<td>Q4 15</td>
<td>-23</td>
</tr>
<tr>
<td>Q1 16</td>
<td>-30</td>
</tr>
<tr>
<td>Q2 16</td>
<td>-36</td>
</tr>
<tr>
<td>Q3 16</td>
<td>-5</td>
</tr>
<tr>
<td>Q4 16</td>
<td>-66</td>
</tr>
<tr>
<td>Q1 17</td>
<td>-84</td>
</tr>
</tbody>
</table>

**Cash Flow from Operations**

USD million

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1 15</td>
<td>212</td>
</tr>
<tr>
<td>Q2 15</td>
<td>83</td>
</tr>
<tr>
<td>Q3 15</td>
<td>71</td>
</tr>
<tr>
<td>Q4 15</td>
<td>121</td>
</tr>
<tr>
<td>Q1 16</td>
<td>133</td>
</tr>
<tr>
<td>Q2 16</td>
<td>42</td>
</tr>
<tr>
<td>Q3 16</td>
<td>80</td>
</tr>
<tr>
<td>Q4 16</td>
<td>65</td>
</tr>
<tr>
<td>Q1 17</td>
<td>30</td>
</tr>
</tbody>
</table>

**EBITDA**, when used by the Company, means EBIT excluding Other charges, impairment and loss/gain on sale of long-term assets and depreciation and amortization.

**Excluding impairments and Other charges.**
Group Cost Focus Delivers Results

- Strong cost management
- Sequential cost increase primarily due to higher fleet utilization
- Quarterly cost will increase with \textit{Ramform Hyperion} and \textit{Vanguard} commencing operations in Q2

Full year gross cash cost expected to be approx. USD 700 million

Gross cash costs are defined as the sum of reported net operating expenses (excluding depreciation, amortization, impairments and Other charges) and the cash operating costs capitalized as investments in the MultiClient library as well as capitalized development costs.
Cost Discipline Remains a Key Priority in 2017

- 2016 gross cash cost more than 40% lower than in 2014

- 2017 cash cost of ~USD 700 million – modest increase from structurally lower level mainly attributable to:
  - More operated capacity with full year operation of *Ramform Tethys* and delivery of *Ramform Hyperion*
  - Expected increase of fuel prices

- Tight cost control continues

*Estimate based on a stable USD against the blend of currencies in PGS cost base.*
### Consolidated Statements of Cash Flows Summary

<table>
<thead>
<tr>
<th>USD million</th>
<th>Q1 2017</th>
<th>Q1 2016</th>
<th>Full year 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash provided by operating activities</td>
<td>30.0</td>
<td>133.3</td>
<td>320.9</td>
</tr>
<tr>
<td>Investment in MultiClient library</td>
<td>(33.6)</td>
<td>(48.3)</td>
<td>(201.0)</td>
</tr>
<tr>
<td>Capital expenditures</td>
<td>(107.6)</td>
<td>(114.4)</td>
<td>(218.2)</td>
</tr>
<tr>
<td>Other investing activities</td>
<td>21.5</td>
<td>(97.3)</td>
<td>(109.5)</td>
</tr>
<tr>
<td><strong>Net cash flow before financing activities</strong></td>
<td>(89.7)</td>
<td>(126.7)</td>
<td>(207.8)</td>
</tr>
<tr>
<td>Financing activities</td>
<td>66.8</td>
<td>161.6</td>
<td>187.9</td>
</tr>
<tr>
<td><strong>Net increase (decr.) in cash and cash equiv.</strong></td>
<td>(22.9)</td>
<td>34.8</td>
<td>(19.9)</td>
</tr>
<tr>
<td>Cash and cash equiv. at beginning of period</td>
<td>61.7</td>
<td>81.6</td>
<td>81.6</td>
</tr>
<tr>
<td><strong>Cash and cash equiv. at end of period</strong></td>
<td>38.8</td>
<td>116.4</td>
<td>61.7</td>
</tr>
</tbody>
</table>

- **Cash flow from operating activities of USD 30.0 million in Q1 2017**
  - Y-o-Y decrease is due to lower earnings and less contribution from working capital reduction than in Q1 2016

- **Q1 new build capex of USD 86.9 million relating to the delivery of Ramform Hyperion**

The accompanying unaudited financial information has been prepared under IFRS. This information should be read in conjunction with the unaudited first quarter 2017 results released May 11, 2017.
Balance Sheet Key Numbers

<table>
<thead>
<tr>
<th>USD million</th>
<th>March 31 2017</th>
<th>March 31 2016</th>
<th>December 31 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total assets</td>
<td>2,824.3</td>
<td>3,029.2</td>
<td>2,817.0</td>
</tr>
<tr>
<td>MultiClient Library</td>
<td>626.7</td>
<td>692.8</td>
<td>647.7</td>
</tr>
<tr>
<td>Shareholders’ equity</td>
<td>1,285.1</td>
<td>1,403.0</td>
<td>1,359.4</td>
</tr>
<tr>
<td>Cash and cash equivalents (unrestricted)</td>
<td>38.8</td>
<td>116.6</td>
<td>61.7</td>
</tr>
<tr>
<td>Restricted cash</td>
<td>111.6</td>
<td>89.3</td>
<td>101.0</td>
</tr>
<tr>
<td>Liquidity reserve</td>
<td>273.8</td>
<td>496.6</td>
<td>271.7</td>
</tr>
<tr>
<td>Gross interest bearing debt</td>
<td>1,242.7</td>
<td>1,326.8</td>
<td>1,191.4</td>
</tr>
<tr>
<td>Net interest bearing debt</td>
<td>1,093.2</td>
<td>1,120.9</td>
<td>1,029.7</td>
</tr>
</tbody>
</table>

- Liquidity reserve of USD 273.8 million
- Net interest bearing debt increased by USD 63.5 million primarily as a result of delivery of *Ramform Hyperion*
- Total leverage ratio of 4.88:1 as of March 31, 2017, compared to 3.94:1 as of December 31, 2016
- Shareholders’ equity at 46% of total assets

The accompanying unaudited financial information has been prepared under IFRS. This information should be read in conjunction with the unaudited first quarter 2017 results released on May 11, 2017.
## Summary of Debt and Drawing Facilities

<table>
<thead>
<tr>
<th>Long term Credit Lines and Interest Bearing Debt</th>
<th>Nominal Amount as of March 31, 2017</th>
<th>Total Credit Line</th>
<th>Financial Covenants</th>
</tr>
</thead>
<tbody>
<tr>
<td>USD 400.0 million Term Loan (&quot;TLB&quot;), Libor (minimum 0.75%) + 250 basis points, due 2021</td>
<td>USD 388.0 million</td>
<td>USD 400.0 million</td>
<td>None, but incurrence test: total leverage ratio ≤ 3.00x*</td>
</tr>
<tr>
<td>Revolving credit facility (&quot;RCF&quot;), due 2020 Libor + margin of 325-625 bps (linked to TLR) + utilization fee</td>
<td>USD 165.0 million</td>
<td>USD 400.0** million</td>
<td>Maintenance covenant: total leverage ratio ≤ 5.50x, to Q2-2017, 5.25x Q3-17, 4.75x Q4-17, 4.25x Q1-18, thereafter reduced by 0.25x each quarter to 2.75x by Q3-19</td>
</tr>
<tr>
<td>Japanese ECF, 12 year with semi-annual instalments. 50% fixed/ 50% floating interest rate</td>
<td>USD 451.7 million</td>
<td>USD 451.7 million</td>
<td>None, but incurrence test for loan 3&amp;4: Total leverage ratio ≤ 3.00x* and Interest coverage ratio ≥ 2.0x*</td>
</tr>
<tr>
<td>December 2020 Senior Notes, coupon of 7.375%</td>
<td>USD 212.0 million</td>
<td></td>
<td>None, but incurrence test: Interest coverage ratio ≥ 2.0x*</td>
</tr>
<tr>
<td>December 2018 Senior Notes, coupon of 7.375%</td>
<td>USD 26.0 million</td>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>

*Carve out for drawings under ECF and RCF
**Reducing to USD 350 million in September 2018.
In Conclusion: Competitively Positioned to Navigate Current Market Environment

- Significant order book increase
- New build program completed
  - Better positioned to generate free cash flow
- Adequate liquidity position
- Continuous focus on cost and capex
- Industry leading MultiClient performance

Visibility improved for 2017
Appendix:
**Fleet Structure Provides Flexibility Through the Cycle**

<table>
<thead>
<tr>
<th>Year</th>
<th>The Ultra High-end Ramforms</th>
<th>High-end Conventional on Charter</th>
<th>High-end Ramforms - Flexible Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>Ramform Hyperion</td>
<td>Sanco Swift - in operation</td>
<td>Ramform Vanguard - warm stacked</td>
</tr>
<tr>
<td>2018</td>
<td>Ramform Tethys</td>
<td>PGS Apollo - in operation</td>
<td>Ramform Valiant - cold stacked</td>
</tr>
<tr>
<td>2019</td>
<td>Ramform Atlas</td>
<td>Sanco Sword - cold stacked</td>
<td>Ramform Viking - cold stacked</td>
</tr>
<tr>
<td>2020</td>
<td>Ramform Titan</td>
<td></td>
<td>Ramform Challenger - cold stacked</td>
</tr>
<tr>
<td>2021</td>
<td>Ramform Sterling</td>
<td></td>
<td>Ramform Explorer - cold stacked</td>
</tr>
<tr>
<td>2022</td>
<td>Ramform Sovereign</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2023</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2024</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2025</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2026</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*With possibility to buy back after year 5 and 8

- Combination of chartered high capacity conventional 3D vessels and temporarily cold-stacked first generation Ramform vessels:
  - Improves fleet flexibility
  - Chartered capacity with staggered expiry structure
  - Positions PGS well to take advantage of a market recovery

Significantly reduced capex requirement going forward
• PGS retains lead on lowest cash cost per streamer

• Ramform vessels best positioned for both large, and streamer intensive (4D) surveys

Source: PGS internal estimates. The cash cost curve is based on typical number of streamer towed, and excludes GeoStreamer productivity effect. The graph shows all seismic vessels operating in the market. The Ramform Titan-class vessels are incorporated with 16 streamers, S-class with 14 streamers.
Appendix

RAMFORM Titan-Class

Engineered for Geoscience

**Stability**
The Titan design ensures better performance and room for growth. The ultra-broad draft shape hull provides fantastic seakeeping capabilities and also means a smooth ride.

**Endurance**
120 days without re-fueling; Dry docking interval 17.5 years; Maintenance at sea lowers operating costs.

**Wire Pull @ 4.5 kts**
This measures towing force through the water and is a more realistic representation of towing capability than ballast pull.

**Redundancy**
3 CP propellers, each with 2 motors – fully operational with 2 propellers; 2 engine rooms, each with 2 generators – fully operational with 1 engine room.

**Fuel Capacity**
5700 m³
Fuel capacity providing flexibility and endurance.

**Space = Flexibility**
Three times larger than modern conventional vessels, the Titans offer a highly efficient work environment with ample space for equipment, maintenance and accommodation.

**Environment**
Larger spreads and faster turnaround mean fewer days on site and leaves a smaller environmental footprint. UNV GL Clean (Table) – more than 50% content of <2.3% Rupactive catalysts reduce NOx emissions by 50%.

**Towing Capacity**
24 reel and streamer capacity provides flexibility and rapid deployment and retrieval.

**Quality**
Superior platform to deploy the best multi-sensor technology – 100% GeoStreamer. Equipped with streamer and source steering.

**Performance Results**

**Downtime**

<table>
<thead>
<tr>
<th>Year</th>
<th>Downtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>3%</td>
</tr>
<tr>
<td>2017</td>
<td>4%</td>
</tr>
<tr>
<td>2018</td>
<td>5%</td>
</tr>
<tr>
<td>2019</td>
<td>6%</td>
</tr>
<tr>
<td>2020</td>
<td>7%</td>
</tr>
<tr>
<td>2021</td>
<td>8%</td>
</tr>
</tbody>
</table>

Ramform Titan – Zero maritime downtime and only 2.7% seismic downtime to date. Total sq km acquired by Titan-class vessels is 89,712 sq km.

**Coverage**
Highest ever production 175,03 sq km/day (average for this survey = 139 sq km/day).

**Future Proof**
25 years
Lifespan Setting the benchmark for this generation of seismic vessels and the market.

**Power Flexibility**

**Survey Type Flexibility**
Titan-class vessels cover all the bases from highly efficient reconnaissance exploration surveys to the detailed resolution required for 4D production seismic.
Extending Illumination and Angular Diversity

GeoStreamer data and SWIM imaging

SWIM + Survey Geometries

Narrow Azimuth to Wide Swath SWIM enables the design and use of cost effective acquisition geometries such as super-wide tow. For narrow azimuth surveys in shallow water, SWIM yields better sampled data in the angle domain.

Wide Azimuth The extra subsurface illumination of sea-surface reflections combined with Wide Azimuth (WAZ) acquisition facilitates the imaging of salt flanks and other steeply dipping structures.

Reduce Acquisition Footprint

Using the receiver spread into virtual sources and receiver arrays reduces source sampling in the crossline direction from the distance between sail lines to that between streamers. Using SWIM in shallow water fills in gaps in near-surface coverage successfully reducing the acquisition footprint.

Ocean Bottom Data

SWIM has been successfully applied to seabed data such as ocean bottom node and cable records. SWIM can increase the shallow image area of the seabed and the underlying sediments by up to 700%.

Improved Multiple Removal

SWIM enables the generation of detailed shallow overburden images that are a requirement for some data-driven 3D SWIM multiple removal methods.

Reducing Drilling Risk

Superior illumination of the overburden using SWIM provides high resolution images suitable for shallow hard rock, helping to identify drilling risks.

Primary

SWIM

Dense Sampling

Extended angular illumination of each point in the subsurface and information from acute, near angles can significantly improve shallow target AVO analysis.

Denser illumination

Sea-surface reflections add additional information about subsurface reflectivity, to enable high-resolution imaging that is unachievable with traditional reflection seismics.
Appendix

GeoStreamer® since 2007

More Measurements — Fewer Assumptions — Better Decisions

Dual Sensors
Complementary recordings facilitate deghosting by wavefield separation at all water depths.

Prestack Deghosting — More Options
Deghosting using dual-sensor measurements with their complementary ghost spectra eliminates frequency gaps, and provides access to separate wavefield components for advanced processes like PGS SWIM, FWI and Reflection Tomography.

Deep Tow
- Better signal, less noise
- More low and high frequencies
- Less weather dependent

Flexible Tow Depth
Dual-sensor recording enables us to re-castum the pressure wavefield to any depth. Towing depth can be adjusted in response to shallow obstacles, currents, thermoclines or to optimize operational performance without any negative impact on data quality.

De-risking with Precise Rock Properties
GeoStreamer prestack deghosting provides reliable attributes for better understanding of rock and fluid distribution. Improved attribute comparisons reduce uncertainty and enable more precise prediction of reservoirs.

Broader Bandwidth — Sharper Boundaries
Rich low frequency content reduces side-lobe artifacts, providing clearer reservoir details.

Monitoring Reservoir Changes
Wavefield reconstruction enables high repeatability for both legacy surveys and future 4D monitoring independent of sea-state. This reveals more subtle production-related changes.

Proven in all Play Types
- SUB-SALT Improved signal recovery and amplitude characterization.
- SUB-BASALT Clearer sub-basalt imaging and intra-basalt layer definition.
- CLASTICS Reliable reservoir properties without the need for well control.
- CARBONATES Detailed mapping of internal structures and better porosity prediction.
- INJECTIES Resolution of complicated geometries and identification of true geological impedance boundaries.

Experience that counts 450 000 KM² acquired worldwide
Appendix

ACQUISITION SOLUTIONS

RAMFORM + GEOSTREAMER = EFFICIENCY + QUALITY

The unique combination of GeoStreamer® technology and Ramform® vessels delivers a premium imaging product to locate and exploit your prospect.

Better Image Quality

Dual sensors combined with towing the streamers deep, 3D spread control, source steering, continuous recording, and the ability to tow dense streamer spreads, all contribute to sub-surface images of greater clarity, accuracy, and reliability.

Reduced Survey Time

Faster turn-around times mean less exposure to weather and faster access to data. We minimize the time it takes to complete a survey using 3D spread control, source steering, continuous recording, flexible tow depth, and tailored mitigation.

Survey Versatility

Our fleet is capable of covering all the boxes from highly efficient exploration surveys to detailed 4D production seismic.

Define Challenge and Select Technology

Tailored acquisition geometries make it easier to solve imaging challenges. Subsurface complexity and geophysical objectives determine the acquisition and imaging solutions to produce the best quality images in the most effective way.

Coverage Options

From single sail line to the ultimate full azimuth coverage. Target illumination increases with each additional pass and direction.

Single Vessel Survey:

Dual source Narrow Azimuth (NAM)  
Triple Source Narrow Azimuth (TAM)  
Multi Azimuth (MAZ)  
EM and seismic

Multi Vessel Survey:

Wide Azimuth (WAZ, WAM)  
Simultaneous Long Offset (SLO)  
Full Azimuth (FAZ)  
FAZ + WAZ + TAM + SLO

Leading the Industry

QUALITY  
EFFICIENCY  
RELIABILITY  
VERSATILITY  
PERFORMANCE  
INNOVATION  
SPEED