PGS' ambition is to develop **superior seismic data quality** to support customers' exploration and production success

## ANNUAL REPORT 2013



## KEY <u>EIGURES</u>

Petroleum Geo-Services (PGS) is a focused Marine geophysical company that provides a broad range of seismic and reservoir services, including acquisition, imaging, interpretation, and field evaluation. The Company's MultiClient data library is among the largest in the seismic industry, with modern 3D coverage in all significant offshore hydrocarbon provinces of the world.

#### CONTENT

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- 22 BUSINESS AREAS
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- 46 BOARD OF DIRECTORS' REPORT
- 56 FINANCIAL STATEMENTS

STREAMER MARKET SHARE OF

21%
AS OF YEAR-END 2013 (PGS ESTIMATE)

NUMBER OF SEISMIC 3D VESSELS IN OPERATIONS

AS OF APRIL 2014

NUMBER OF PATENTS GRANTED

PROPOSED DIVIDEND

**INCREASE OF** 

**COMPARED TO 2012** 

395 PATENTS

Patents held by PGS granted under the laws of the U.S., the UK and Norway

AVERAGE STREAMERS PER VESSEL

**12.9**BY THE END OF 2015

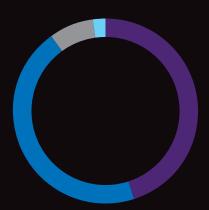
AVERAGE VESSEL AGE

922
YEARS BY THE END OF 2015

**FINANCIAL CALENDAR** 2014

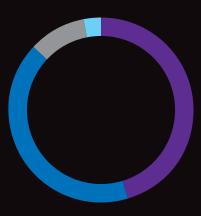
Annual General Meeting May 8 May 9 Q1 2014 Earnings Release July 24 Q2 2014 Earnings Release October 23 Q3 2014 Earnings Release December 19 Capital Markets Day, Oslo

#### **REVENUE SPLIT**



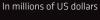
- Marine Contract 45%
- MultiClient 45%
- Imaging 8%Other 2%

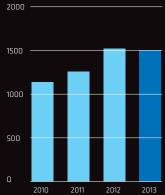
#### **VESSEL UTILIZATION**



- Contract 45%
- MultiClient 42%
- Steaming 10%
- Yard 3%

#### **PGS REVENUES**





#### **BUSINESS HIGHLIGHTS** 2013

Improved earnings compared to 2012 driven by all business

MultiClient late sales at a record high, delivering good returns on the investments made in MultiClient.

Took delivery of Ramform Titan, the first in a series of four Ramform Titan-class vessels.

Amended and extended the revolving credit facility.

Completed the first ever full-scale simultaneous acquisition of Towed EM and 2D GeoStreamer® seismic.

New imaging technologies enabled PGS to get a perfect seismic tie at well locations in areas where, until now, this has been impossible.

Commenced acquisition of the Triton Full Azimuth GeoStreamer survey in the Gulf of Mexico.

Introduced a Quality Improvement Program to capture lost revenues by preventing quality related losses.

The Board of Directors proposes a dividend of NOK 2.30 per share, up 39 percent from 2012.

#### **KEY FINANCIAL FIGURES**

In USD million except per share data	2013	2012	2011	2010
Revenues	1,501.6	1,518.3	1,253.3	1,135.1
EBITDA (as defined)	828.9	776.2	534.8	475.4
EBIT ex. impairment charges <sup>1</sup>	397.1	293.0	141.3	130.5
EBIT as reported	382.1	293.8	138.7	51.4
Net income	238.3	185.5	33.7	(14.0)
EPS	1.11	0.86	0.16	(0.07)
Net cash provided by operating activities	775.3	752.9	480.4	355.5
Capital expenditures	437.8	368.1	279.9	223.5
Cash investment in MultiClient library	373.0	297.4	203.9	166.7
Total assets	3,544.3	3,275.6	3,137.2	3,035.0
MultiClient library	576.9	382.3	334.1	310.8
Cash and cash equivalents	263.8	390.3	424.7	432.6
Shareholders equity	2,065.6	1,911.5	1,771.7	1,755.3
Net interest bearing debt	666.7	435.6	394.2	279.2



CEO letter 2013

## DEAR FELLOW SHAREHOLDER

All business areas contributed to the higher margins we achieved in 2013. Going forward, we are targeting continued earnings growth driven by the vessel new build program and our industrial business approach.



We entered 2013 at a strong pace. However, sharper focus on cost and improved cash flow among our customers became increasingly apparent during the first half of the year and made the market more challenging than anticipated. PGS responded by shifting more capacity into MultiClient activities, where better opportunities were identified. Reallocating capacity delayed revenue timing, since the MultiClient business model entails sales over a number of years.

#### The Industrial Approach

The Industrial Approach is all about establishing a sound, industrial platform for delivering performance through the cycle and generating consistent returns to our shareholders. The platform is supported by three pillars: a vessel investment strategy, an operational strategy and a financial strategy.

Our ongoing new build program is governed by our vessel investment strategy, which specifically targets capacity investments that will bolster PGS' market differentiation. Our most sustainable competitive advantage is the productivity of the fleet, primarily the high capacity Ramform vessels. Since 2008 we have taken delivery of five new vessels. *Ramform Atlas*, the latest fleet addition, was delivered late January 2014. Two more Ramform Titan-class deliveries are scheduled for 2015.

Fleet renewal has reduced the average vessel age significantly and by end 2015 we will have increased the number of streamers in the water by more than 50 percent since 2012. Market share is not a PGS objective, but critical mass is. We will only deploy PGS capital to new builds when we can establish real productivity differentiation and of course can see the prospect of a satisfactory Return On Capital Employed. All other



"WE WILL ONLY
DEPLOY PGS CAPITAL
TO NEW BUILDS WHEN
WE CAN ESTABLISH
REAL PRODUCTIVITY
DIFFERENTIATION."

capacity will be chartered in. We will as well avoid building capacity to try to hit anticipated peaks in the market, but add new capacity step by step through the cycle in line with market and replacement needs.

The main objectives of our operational strategy are to maintain our leading position within Health, Safety and Environment, increase our productivity advantage over peers and implement differentiating GeoStreamer-based technologies on all vessels and in all imaging centers. Our technology position has improved significantly over recent years and we intend to continue to harvest from our technology pipeline. Developing a focused organization that can optimize profitability by balancing Marine Contract and MultiClient activities is another important aspect of our operational strategy. Since 2010 we have had a stronger focus on MultiClient, leading to growth in size and profitability. Pre-funding has been at a healthy level and is targeted to be in the range of 80-120 percent of capitalized cash investments. Supporting our operational strategy is a relentless drive for continuous improvements and operational excellence.

The financial strategy consists of capital discipline, a prudent financial structure and a conservative gearing policy with focus on increasing both return on capital employed and dividend capacity.

We will continue to develop our business along these industrial lines of thinking.

2015 marks the end of our current new build program. From then on, it is about capitalizing on the benefits of a GeoStreamer-equipped fleet, and our improved productivity differentiation. Our focus will continue to be on improving profitability and return on capital employed while delivering free cash flow and increased dividend capacity. We will grow the MultiClient business further and we remain confident that GeoStreamer Imaging will become yet another differentiator for the Company. We will continue to develop and commercialize new technologies and do our utmost to maintain leadership in Health, Safety and Environmental performance as well as delivering cost and quality excellence.

#### Strong Performance

In 2013, fleet operations and safety performance reached the best levels we have ever achieved. Strong operational performance will always be an important driver for improved financial results.

MultiClient late sales came in at a record level in 2013. This confirms the attractiveness of our MultiClient library and our ability to generate solid returns on our MultiClient investments. The lower pre-funding level experienced in 2013, compared with 2012, was mainly due to a lower proportion of surveys covering held acreage and relates to timing of expected cash flows. Our MultiClient performance in 2013 demonstrates healthy demand for quality products in attractive locations, despite customers' increased focus on cost and improved cash flow. Our external Imaging revenues ended at approximately the same level as for 2012, while MultiClient processing increased in 2013.

Marine Contract's operating margin for the full year 2013 ended at a solid 29 percent.

#### Improved Financial Flexibility

We increased and extended our revolving credit facility in 2013, which contributed to a debt maturity profile of more than four years. At our capital markets day presentation in 2013, we flagged that the Company was considering refinancing of the Term Loan B. With the successful completion in March 2014 of both the refinancing of the Term Loan B and the Japanese export credit financing for the two last Ramform Titan-class vessels, the average time to maturity for our debt and drawing facilities has increased to almost six years.

#### Differentiation through Innovation

Technology plays an increasingly important role in differentiating seismic suppliers. Advancing PGS' status as a leading innovator is a strategic objective. While GeoStreamer is the best example of our current differentiation through technology, further innovative products have been commercialized in 2013.

The inherent capabilities of GeoStreamer have been an eye-opener for many clients. A good example is Lundin Petroleum's application of Separated Wavefield Imaging in combination with Full Waveform Inversion on GeoStreamer data, for the now Statoil operated Johan Sverdrup field. The result was a perfect seismic tie at well location, an impossible task using conventional seismic data. Another example of acceptance of our technology in 2013 was the first ever full-scale simultaneous acquisition of Towed EM (Electro Magnetic) and 2D GeoStreamer seismic data. The first combined data sets to be available in 2014.

#### Outlook

In 2014, basins offshore Brazil will be important drivers for seismic demand in the wake of the two licensing rounds completed in the region in 2013. Further north, oil companies are making discoveries offshore Central America and the hydrocarbon potential there will be further explored in 2014. Activity levels in the Gulf of Mexico have picked up, and we began our Triton Full Azimuth survey there in November 2013. Willingness to explore offshore Africa and Australia is growing. That said, activity levels in Nigeria, Asia Pacific, and offshore Libya and Egypt remain relatively low, although these regions offer good future growth potential.

The North Atlantic region will once again be busy, driven by high exploration and production interest. We expect very healthy market conditions for the upcoming summer season.

We entered 2014 with a strong order book and our focus is increasingly on building backlog for the fourth quarter 2014 and first quarter 2015.

In late 2013, we launched a Quality Improvement Program aimed at improving profitability through capturing lost revenues by preventing quality shortcomings. In addition in early 2014, we launched a new cost initiative, targeting a run-rate cost reduction of \$30 million by year-end.

The long-term prospects for our industry are good. Energy companies continue their search for new hydrocarbon resources in regions featuring deeper waters, harsher environments, extreme reservoir depths, and complex geologies. PGS' excellent reputation, unique technologies and solid market share in the higher-end survey market segment makes us an attractive contractor and partner for oil companies.

Our services are competitive, we offer leading-edge technologies, and our financial position is robust.

JON ERIK REINHARDSEN
President and CEO

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# THE WORLD OF PGS

#### **OFFICES**

PGS has offices in 21 countries around the world and operates major regional centers in London, Houston, and Singapore, with the headquarters in Oslo, Norway.

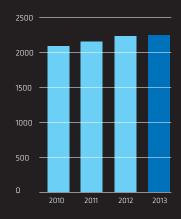


## TOTAL RECORDABLE CASE FREQUENCY (TRCF)



Per million man-hours, compared to 0.66 in 2012.

## AVERAGE NUMBER OF EMPLOYEES



## LOST TIME INCIDENT FREQUENCY (LTIF)



Per million man-hours, compared to 0.17 in 2012.

#### Imaging & Engineering

RESEARCH AND
DEVELOPMENT SPENDING
OF APPROXIMATELY USD

60
MILLION ANNUALLY

JUBARTE'S OPTOSEIS SYSTEM INSTALLED AT WATER DEPTHS GREATER THAN

**1,000** 

The first Permanent Reservoir Monitoring system installed at such depths.

EXTERNAL IMAGING REVENUES HAVE INCREASED

40%

#### MultiClient

3D LIBRARY COVERS MORE THAN

**580,000** SQUARE KILOMETRES

2D LIBRARY MEASURES

350,000

MEGASURVEY 3D COVERAGE OF MORE THAN

690,000
SQUARE KILOMETRES

#### Ramform Titan-class

**AFT BEAM MEASURES** 

70

**TOWING CAPACITY OF** 

**24** 

16 streamers in exploration mode with 100 meter separation.

**FUEL CAPACITY OF** 

**6,000**CUBIC METERS



## PGS' COMPETITIVE ADVANTAGES

PGS' two foremost competitive advantages are the Ramform fleet and the proprietary GeoStreamer technology platform. The Ramform vessels deliver proven operational capabilities and superior efficiency and deploy state-of-the art technologies.

PGS holds the industry record for vessels that tow and handle the greatest number of streamers. Fleet efficiency will continue to improve in 2014 as the new *Ramform Atlas* adds its contribution to performance. In 2015, two more Ramform Titan-class vessels are scheduled for delivery, culminating the fleet renewal program.

The Company's most prominent technology differentiator is the dual-sensor streamer technology — GeoStreamer. Benefits of the GeoStreamer, compared to a conventional survey streamer, are higher resolution, better depth imaging, and superior operational efficiency. GeoStreamer improves the seismic value chain, from acquisition through processing.

#### **PGS BUSINESS AREAS**



#### MARINE CONTRACT

#### MARINE MARKET LEADERSHIP

Marine Contract acquires seismic data exclusively for oil and gas exploration and production companies.

45% OF 2013 REVENUES

2% of revenues relates to Other Marine

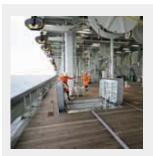


#### **MULTICLIENT**

### DIVERSE MULTICLIENT LIBRARY

MultiClient initiates and manages seismic surveys which PGS acquires, processes, markets and sells to multiple customers on a non-exclusive basis.

45% OF 2013 REVENUES



#### **OPERATIONS**

### PRODUCTIVITY LEADERSHIP

Operations supports Marine Contract and MultiClient with vessel resources and manages fleet renewal strategies.



## IMAGING & ENGINEERING

### TECHNOLOGY DIFFERENCIATION

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.

**8% OF 2013 REVENUES** 

# THE PGS HISTORY

## 1991

Geoteam and Precision Seismic merge to form Petroleum Geo-Services ("PGS"). Later the Company merged with Nopec. PGS' vision was to provide the most efficient acquisition of 3D marine seismic data.

## 1992

PGS was incorporated as a public limited liability company, Petroleum Geo-Services ASA, and listed on Oslo Stock Exchange.

## 1993

on NASDAQ in the United States. With the acquisition of Tensor Inc., specialists in 3D processing and depth imaging, PGS' expanded into the data processing field.

## 1994

Acquisition of ERC

- a reservoir consultancy
groun.

## 1995

Ramform seismic vessel technology was introduced with delivery of the Ramform Explorer. From 1995 to 1999, PGS designed, built, and deployed six proprietary Ramform survey vessels and grew to become a worldwide leader in the development and industrialization of 3D marine seismic acquisition.

## 1997

PGS was listed on the New York Stock Exchange. PGS Production is conceived with the acquisition of Golar-Nor and the FPSOs Petrojarl I and Petrojarl Foinaven.

## 1998

The production services business Atlantic Power was acquired. PGS added the Ramform Banff to the fleet of FPSO yessels.

## 1999

A fourth FPSO, the Petrojarl Varg, was bought from Saga Petroleum.

## 2000

PGS sold its subsidiary Spinnaker Exploration.

## 2001

The Company's data management business was sold to Landmark Graphics Corporation. Ramform Victory tows the world's first 16 streamer spread.

## 2002

PGS bought into in the Varg field in the North Sea from Norsk Hydro and Statoil and established the exploration and production company Pertra. PGS completes the world's 1st commercial Multi Azimuth (MAZ) survey at Vare.

## 2003

PGS sold Atlantis to Sinochem. An inability to meet debt obligations made PGS to file for Chapter 11 under the US Bankruptcy code in July. PGS emerged from Chapter 11 in November the same year.

## 2005

Pertra was sold to Talisman, and PGS became a dedicated oil services company. In December the same year a full refinancing of the Company was completed.

## 2006

PGS demerged its floating production by listing and distributing to shareholders the company Petrojarl ASA. PGS becomes a dedicated geophysical services company and announces a plan to build two Ramform S-class vessels.

## 2007

In 2007 PGS introduced the GeoStreamer, the first ever dual sensor streamer. The company sells Ramform Victory to the Japanese Ministry of Economy Trade and Industry ("METI"). PGS acquired Arrow Seismic, MTEM and Applied Geophysical Services ("AGS"). The first dividend in PGS history was paid.

## 2008

PGS took delivery of the Ramform Sovereign and the vessel sets new industry record with deployment of 17 streamers.

## 2009

PGS took delivery of the Ramform Sterling and launches the imaging technology hyperBeam. Share issue of approximately 10 percent to strengthen the Company's balance sheet.

### 2010

PGS emerged as a focused marine geophysical company, following sale of its On-PGS was reorganized into global product lines within four business areas: Marine Contract. MultiClient, Operations, and Imaging & Engineering. PGS Apollo joined the fleet. Share issue of approximately 10 percent in order to position PGS for future growth.

## 2011

PGS orders two new Ramform Titan-class vessels from Mitsubishi Heavy Industries Ltd. in Japan, with options for additionally two vessels.

### 2012

PGS exercised options to build another two Ramform Titan-class vessels. PGS launched its Towed EM streamer technology, made a successful installation of an OptoSeis permanent reservoir monitoring system at the Jubarte field in Brazil and launched Separated Wavefield Imaging – SWIM.

## 2013

PGS took delivery of the Ramform Titan, the first vessel in a series of four RamformTitanclass ships. The company re-entered the Gulf of Mexico with acquisition of the Triton Full Azimuth GeoStreamer MultiClient survey.

## 2014

Ramform Atlas, the second Ramform Titan-class vessel was delivered in January.





## EXECUTIVE MANAGEMENT

#### Jon Erik Reinhardsen

President and CEO

Mr Reinhardsen joined PGS in April 2008 as President and Chief Executive Officer. Prior to heading PGS, he was Alcoa's President, Global Primary Products Growth. At Alcoa, he was responsible for developing and implementing major primary metals and refining growth opportunities for the company worldwide. Mr. Reinhardsen joined Alcoa from Norway-based Aker Solutions ASA, an international engineering and construction contractor for the oil, gas, chemicals, petrochemicals, mining, and metal processing industries. As Group Executive Vice President for Aker Solutions based in Houston, Texas, he was responsible for all non-European contracting operations and product businesses worldwide

Earlier in his career, Mr. Reinhardsen led Aker Maritime ASA's Global Products business and was engaged in merger and acquisition activities, new business development, marketing and sales, and investor relations. He also led Aker ASA's seismic venture Aker Geo that was later sold to CGG. In June 2009, Mr. Reinhardsen was elected to the board of directors of Cameron and he has been a member of the board of directors of Hoegh Autoliners Holdings AS and Hoegh LNG Holdings Ltd since 2005. He is also a member of the board of directors of Awilhelmsen AS. Mr. Reinhardsen earned a master's degree in Applied Mathematics and Geophysics from the University of Bergen, Norway. He completed the International Executive Program of the Institute for Management Development (IMD) in Lausanne, Switzerland in 1991.

#### **Gottfred Langseth**

Executive Vice President and CFO

Mr Langseth joined PGS in November 2003 and was appointed Executive Vice President and Chief Financial Officer as of January 1, 2014. He was Chief Financial Officer of the information technology company Ementor ASA from 2000 to 2003. Mr. Langseth was Senior Vice President of Finance and Control at the offshore engineering and construction company Aker Maritime ASA from 1997 to 2000. Langseth worked at Arthur Andersen Norway from 1991 to 1997. Mr. Langseth is a member of the board of directors of Mesta AS. Mr. Langseth was certified as a Norwegian state-authorized public accountant in 1993 and holds a Master of Business Administration degree from the Norwegian School of Economics and Business Adminis-

#### Per Arild Reksnes

Executive Vice
President, Marine Contract

Mr Reksnes was promoted to Executive Vice President in April 2010, initially to run PGS' New Ventures business area and subsequently Marine Contract. From 2007-2010, he was PGS Marine's President, EAME (Europe, Africa, Middle East) and CIS. His job titles at PGS have included President for Geoscience and Engineering, President for Technology, Vice President for Profiling and Marketing, and Vice President, Technical Marketing, Per Arild Reksnes joined PGS in 2001 from his position as Chief Professional Geophysics at Norsk Hydro. During his 16 years at Norsk Hydro, he held several geophysics and management positions. Mr. Reksnes holds a Master's degree in Applied Geophysics from the University of Oslo and a Master's degree in Technology Management from MIT/NTH (Norwegian University of Science and Technology).



#### **Sverre Strandenes**

Executive Vice
President, MultiClient

Mr Strandenes was appointed Executive Vice President MultiClient in May 2010. He previously had been PGS' Group President, Imaging & Engineering since November 2006. Strandenes has held several senior PGS management positions, including President, Marine Geophysical EAME Region (Europe, Africa, and Middle East). Prior to joining PGS in 1995, Mr. Strandenes was the Geosciences department manager at Norsk Hydro Research Center. During his 14 years at Norsk Hydro he held several geophysics and management positions. Mr. Strandenes is a hoard member of Azimuth Ltd. Sverre Strandenes was awarded a Master of Science degree (Cand. Real) from the University of Bergen in 1981.

#### Magne Reiersgaard

Executive Vice President, Operations

Mr Reiersgaard joined PGS at its inception in 1990/91 and has held a number of key executive positions in the PGS Group. He has been Executive Vice President, Operations since April 2010. Magne Reiersgard's prior management roles at PGS include President, Marine Geophysical NSA Region, based in Houston; President, Marine Geophysical Asia Pacific Region, headquartered in Singapore; and Vice President, Marine Acquisition. Prior to joining PGS, he held various management positions in the survey division of Geoteam AS. Currently on the Board of Directors of IAGC (International Association of Geophysical Contractors), he is also a board member of the not-for-profit Society of Exploration Geophysics (SEG) Foundation. Mr. Reiersgard holds an electronics degree from Agder University College, Grimstad, Norway, and a business degree from BI Norwegian School of Management.

#### **Guillaume Cambois**

Executive Vice President, Imaging & Engineering

Mr Cambois joined PGS in 2007 as the senior advisor spearheading deployment of PGS' GeoStreamer technology. He took over as Marine Contract President, Asia-Pacific in March 2009 and in May 2010 advanced to Executive Vice President, Imaging and Engineering. During a 20-year career at the geophysical services company CGG prior to joining PGS, Guillaume Cambois held various executive management posts, such as Executive Vice President, Data Processing and Chief Technology Officer. An active member of the Society of Exploration Geophysicists, he was the Society's Vice President in 2007/2008 and is currently serving as Director at Large. Mr. Cambois received his Ph.D. in Geophysics from the University of Texas at Austin.

From left to right; Sverre Strandenes, Guillaume Cambois, Gottfred Langseth, Jon Erik Reinhardsen, Magne Reiersgaard and Per Arild Reksnes.

## ACLEARER IMAGE

15 PGS STRATEGY

17 HEALTH, SAFETY, ENVIRONMENT AND QUALITY

20 CORPORATE RESPONSIBILITY





NEW BUILD PROGRAM INCREASES NUMBER OF STREAMERS PER VESSEL BY APPROXIMATELY



## PGS STRATEGY - THE INDUSTRIAL APPROACH

The Industrial Approach is all about establishing a sound, industrial platform for delivering performance through the cycle and generating returns to shareholders.

The platform is supported by three pillars: a vessel investment strategy, an operational strategy and a financial strategy.

#### **Vessel Investment Strategy**

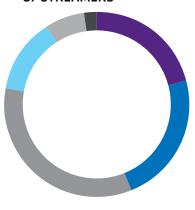
- Investing in own capacity only when differentiation can be achieved
- ◆ Newbuild program renews and expands PGS' fleet, reduces average age of fleet vessels, and increases the average number of streamers towed per vessel by approximately 50 percent
- Add new capacity step by step through the cycle, in line with market and replacement needs
- Maintain critical mass. Market share is not an objective.

#### **Operational Strategy**

- Taking the industry lead in Health Safety Environment and Quality ("HSEQ")
- Further increase productivity advantage relative to peers
- Implement differentiating GeoStreamer-based technologies on all vessels and in all imaging centers
- Proactive MultiClient/Contract mix to ensure profit optimization over the cycle
- MultiClient pre-funding level of 80-120 percent of capitalized cash investment
- Emergence of GeoStreamer-based Imaging technologies
- Technology pipeline with further profit potential.



#### MARKET SHARE IN NUMBER **OF STREAMERS**



- PGS 21%
- WesternGeco 23%
- CGG 34%
- Polarcus 13%
- Dolphin 7%
- Others 2%

As of year-end 2013 (PGS estimate).

#### **Financial Strategy**

- Prudent financial structure and conservative gearing policy
- Focus on return on capital employed and dividend capacity.

2015 marks the end of the current new build program. From then on the Company's focus will increasingly be on:

- Improving profitability, free cash flow, return on capital employed and dividend capacity
- Leveraging the GeoStreamer equipped fleet and enhancing productivity differentiation
- Continued MultiClient revenue growth and optimizing invested capital
- GeoStreamer imaging as a new differentiator
- Continued rollout of new technologies
- HSE, Cost, and Quality leadership.

#### **PGS' STRATEGIC AMBITIONS**

To care for its stakeholders

To deliver productivity leadership

To develop superior data quality

To innovate

To perform over the cycle

Caring for employees' health and safety alongside caring for the environment and society at large is good for business. Leadership in HSEQ contributes to the pledge to care for customers' success.

Productivity leadership is delivered through the Company's fleet of Ramform vessels and the GeoStreamer technology. PGS intends to be recognized as the first port of call for clients seeking tight turnaround times for large projects in a licensing environment that specifies ever-shorter lead times until the first exploratory well is drilled.

PGS' GeoStreamer technology drives the ambition to develop superior data quality that enables oil companies to more accurately characterize subsurface features.

Innovation is strategically important to differentiate. PGS was the first company to launch a dual-sensor streamer, the acclaimed GeoStreamer; the first to deploy vessels capable of towing more than 20 streamers, and the creator of unique reservoir-centric solutions and technologies.

PGS is determined to perform over the cycle and mitigate its exposure to industry cyclicality by maintaining a strong balance sheet, taking a proactive approach to capacity and capital allocation between MultiClient and contract work, maintaining cost and capital discipline and focus on productivity, quality improvement and technology differentiation. Achieving this ambition will improve profitability, free cash flow return on capital employed and dividend capacity.



## **HEALTH, SAFETY, ENVIRONMENT AND QUALITY**

Health, Safety, Environment and Quality ("HSEQ") management and reporting are key parameters for the evaluation of business performance at all PGS management levels and by the Company's Board of Directors.

PGS has a strong Company-wide HSEQ culture. To further improve HSEQ performance and reinforce HSEQ management systems, PGS set three main goals for 2013 that were largely achieved:

- Maintain a low incidence of recordable injuries, in particular Lost Time Injuries
- Strengthen risk management and reduce overall risk exposure
- Improve employee HSE awareness and performance.

#### **HSEQ Performance**

2013 saw an increase in the number of injuries, compared to 2012; nevertheless, the number of recordable injuries still remained lower than in prior years. The PGS organization (core fleet vessels and PGS offices) had the following health and safety incident levels in 2013:

- Zero fatalities, compared with zero in 2012
- Two Lost Time Injuries, compared with two in 2012
- Five Restricted Work Day Cases, compared with three in 2012
- Five Medical Treatment Cases, compared with three in 2012
- Four High Potential Incidents, compared with one in 2012.

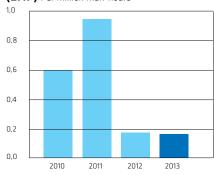
Total Company activity (core fleet vessels and PGS offices) in 2013 comprised 12,745,472 man-hours. Total activity in 2012 amounted to 12,045,876 man-hours.

The overall Lost Time Injury Frequency ("LTIF") decreased to 0.16 per million man-hours in 2013, compared with 0.17 per million man-hours in 2012. The Total Recordable Case Frequency ("TRCF") increased to 0.94 per million man-hours, compared with 0.66 per million manhours in 2012. The number of total recordable incidents increased from eight in 2012 to 12 in 2013.

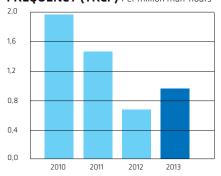
Despite the increase in injuries in 2013, the Company has recorded

#### **LOST TIME INCIDENTS FREQUENCY**





#### **TOTAL RECORDABLE CASE** FREQUENCY (TRCF) Per million man-hours





#### **HEALTH AND SAFETY INCIDENT RATES**

201



improving HSEQ performance in recent years. These improvements are attributable to systematic work that builds HSEQ competence, enhances risk management, and drives ongoing HSEQ awareness among employees.

#### **Marine Operations**

In 2013, PGS Marine Operations (core fleet) experienced the following health and safety incident rates:

- Zero fatalities, compared with zero in 2012
- Two Lost Time Injury, compared with one in 2012
- Five Restricted Work Day Cases, compared with three in 2012
- Five Medical Treatment Cases, compared with three in 2012
- Four High Potential Incidents, compared with one in 2012.

PGS Marine Operations (core fleet) comprised 8,535,832 man-hours, compared with 7,820,536 in 2012, Marine Operations' overall Lost Time Injury Frequency ("LTIF") increased to 0.23 per million manhours in 2013 compared with 0.13 in 2012. The Total Recordable Case Frequency ("TRCF") rose to 1.41 per million man-hours in 2013, compared with 0.90 in 2012. The number of total recordable incidents increased to 12 from seven in 2012.

#### **Office Activities**

In 2013, PGS offices experienced the following health and safety incident rates:

- Zero fatalities, compared with zero in 2012
- Zero Lost Time Injury, compared with one in 2012
- Zero Restricted Work Day Cases, compared with zero in 2012

- Zero Medical Treatment Cases, compared with zero in 2012
- ullet Zero High Potential Incidents, compared with zero in 2012.

PGS office operations in 2013 totaled 4,209,640 man-hours, compared with 4,225,340 man-hours in 2012 At PGS offices, the overall Lost Time Injury Frequency ("LTIF") declined to zero per million manhours in 2013, compared with 0.24 in 2012. The Total Recordable Case Frequency ("TRCF") declined to zero per million man-hours in 2013, compared with 0.24 in 2012. The number of total recordable incidents decreased to zero from one in 2012.

#### Strengthening Risk Management

The Company's risk management system was further developed in 2013 to ensure that all hazards associated with activities are identified, risks assessed, and appropriate mitigation measures are determined. PGS implemented measures that strengthen processes and systems for risk and change management, and intensified the Company-wide focus on carrying out formal and informal risk assessments offshore and onshore.

#### Improving Employee HSE Awareness and Performance

HSEQ engagement continued to be a top PGS priority in 2013 and Company employees have been encouraged to assume greater ownership and responsibility for HSEQ matters. PGS promotes an organization-wide culture of HSEQ ownership so as to ensure that each department fulfills its responsibility for correct management and implementation of HSEQ practices.





## CORPORATE RESPONSIBILITY

In 2012, PGS responded to stakeholder demand for transparency by publishing its first-ever Responsibility report: Responsibility Review 2011. The Review presented the Company's efforts and achievements in this area.

#### **PGS BECAME A SIGNATORY**

of the UN Global Compact in December



The process adopted to produce the Review was a good learning experience that helped Company employees evolve in their thinking and approach. PGS has continued on its journey since then, increasing the level of commitment and engagement by its workforce.

To further demonstrate the Company's commitment to continuously improve its corporate responsibility culture, in December 2013 PGS became a signatory of the UN Global Compact — a United Nations initiative that encourages businesses to adopt sustainable policies and to report their progress. By signing up to this international initiative, PGS is committed to align its approach to the ten principles of the UN Global Compact in the spheres of Human Rights, Labor, Environment, and Anti-Corruption.

The Responsibility Report will be distributed in conjunction with PGS' annual reports hereafter. PGS' aim with this second responsibility publication is to communicate to all stakeholders the progress the Company has made against its responsible business commitments during 2012 and 2013.

"Evolution," the title of the report, highlights PGS' growth in the Corporate Responsibility arena while adapting to the needs of a changing world. The responsibility report is organized around four key areas — People, Environment, Conduct, and Stakeholders. It presents PGS' commitments, activities and performance data relating to the issues that matter most for the Company's business. The report's content has been assembled by a wide range of PGS employees from across the business and around the globe.

## PGS RESPONSIBILITY REPORT 2014



**Download the report** at www.pgs.com or **order** a hard copy at info@pgs.com

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IMAGING &
ENGINEERING



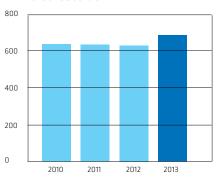
## MARINE CONTRACT

Seismic Data under Exclusive Client Contracts

Marine Contract acquires seismic data under exclusive contracts with its customers. Marine Contract also generates growth opportunities for PGS through commercialization of new technology and business ideas.

#### **MARINE CONTRACT REVENUES**

In millions of US dollars



#### **Value Proposition**

Marine Contract's value proposition is to meet customers' requirements for efficient and cost-effective delivery of seismic data, offered with the highest available data quality, and delivered through safe and environmentally sound operations.

#### Seismic Surveys are Growing in Size

PGS has a unique advantage in being the only seismic operator to use ships of the Ramform design. The ability to tow large, dense streamer spreads, as well as rapid streamer deployment and retrieval, are critical factors for high productivity. Measured in terms of unit production cost, no other fleet in the industry delivers comparable cost-effectiveness. The capability to complete large surveys in short time spans is a significant PGS advantage, particularly in light of the near doubling of average survey size over the last five years.

#### GeoStreamer in the Driver's Seat

PGS introduced GeoStreamer technology in 2007. Rollout of 2D vessels began in 2008, followed by the first 3D vessels in 2009. Today, the dual sensor streamer technology is recognized as the leading streamer technology among a majority of oil companies. The introduction of GeoStreamer has encouraged PGS competitors to develop similar systems. With the early development and implementation of GeoStreamer, PGS enjoys a clear advantage in the segment for high-end data quality. GeoStreamer delivers high bandwidth data, generically known as Broadband. Such data yields clearer subsurface images, and furnishes added information vital to analyzing the characteristics of specific reservoirs or other geological bodies. Market acceptance and dramatically increased demand for Broadband data

has been the trend headlined in the seismic industry since the launch of GeoStreamer. PGS expects about half of all customers' seismic requirements to be Broadband in 2014.

#### Market Polarization Favors PGS

Larger survey size combined with an increasing focus on data quality favor PGS' Ramform fleet. The requirement for GeoStreamer quality data to image deep and complex structures also favors PGS' technology offering. Getting the most out of GeoStreamer data demands proprietary data analysis techniques and experience, which in turn draw customers to PGS.

From an efficiency perspective, the PGS fleet will extend its competitive advantage over the coming years as the Company continues to take delivery of new Ramform Titan-class vessels with greater capabilities than current Ramform vessels.

#### **New Growth Opportunities**

Towed Electro Magnetic ("Towed EM") technology and OptoSeis are two key ventures for PGS.

The Towed EM solution yields benefits such as high data quality from dense data sampling, high acquisition efficiency, real-time quality control, and onboard processing capability. PGS is the only company that can combine simultaneous EM and 2D seismic acquisition — a solution with the potential to become the ultimate exploration tool.

OptoSeis is a fiber-optic technology which forms the backbone of PGS' system for permanent reservoir monitoring ("PRM") of pro-



ducing fields in the marine environment (OptoSeis Marine) and for 3D acquisition on land (OptoSeis Land). PGS has installed an OptoSeis Marine system for Petrobras on parts of the Jubarte field offshore Brazil. Delivered as a turnkey system, Jubarte's OptoSeis is the world's first PRM system installed at water depths greater than 1,000 meters.

The development of a permanent land-based fiber-optic system for 3D seismic acquisition is sponsored by Shell. The project's goal is to deliver cost-effective large 3D surveys with ultra-high channel density.

Both Towed EM and OptoSeis have significant growth potential in the next several years.

Since delivery in 2013 the *Ramform Titan* has operated in the challenging waters of the North Sea and in the South Atlantic. The vessel has performed excellently and surpasses the Company's expectations.

## BROADBAND SURVEYS ARE INCREASING AND ACCOUNTED FOR



of all surveys in 2013



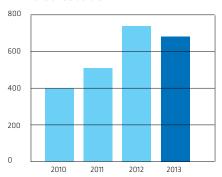
#### **MULTICLIENT**

Supporting Exploration Success

MultiClient manages and licenses seismic data that PGS acquires on a non-exclusive basis. The Company invests in the projects and licenses the data to customers under a variety of business models.

#### **MULTICLIENT REVENUES**

In millions of US dollars



The MultiClient business area has two main revenue streams: pre-funding and late sales. Customers who pre-fund surveys are committed to license the data before processing is completed. Late sales revenues are generated from customers who purchase data sets after processing is completed.

#### **Value Proposition**

MultiClient helps PGS' clients achieve exploration success by providing rapid access to a global seismic database which can be licensed through attractive commercial models. Licensing MultiClient data enables oil companies to attain a global reach, reduce risk and cycle times, and optimize their decision-making. PGS targets data acquisition in prospective areas for discovering and producing oil and gas — and that provide an opportunity for oil companies to gain access to acreage. Thus, MultiClient shares a common aim with customers searching for hydrocarbons by screening frontier areas or seeking near-field exploration prospects in mature areas.

MultiClient's Reservoir Services organization delivers world-class expertise in geology, geophysics, and reservoir characterization. This expertise is used to identify the best areas for new MultiClient surveys and to present the prospectivity within the MultiClient library.

The PGS MultiClient business area leverages the full capability of PGS' high-end fleet, GeoStreamer technology, and imaging solutions. MultiClient offers business models tailored to each client, enabling them to pursue their exploration objectives effectively.

#### **MultiClient in Different Scenarios**

A common scenario for a MultiClient 3D ("MC3D") project in a mature area is to combine several smaller-sized seismic surveys into one large survey. The efficiency of the larger MC3D program is considerably better than if each of the original survey components were acquired separately. Project turn-around time and cost are considerably reduced, compared with conducting each of the sub-projects independently. Participating clients may also gain a better understanding of the regional geology due to the availability of more extensive data.

In frontier areas, with greater open acreage, MultiClient 2D and 3D surveys provide a cost-effective way for oil companies to gain critical insight into new regions before making significant investment decisions, such as selecting blocks and determining pricing ahead of bidding in a licensing round.

A trend in recent years has been to conduct very large MultiClient 3D surveys in areas where the exploration license period, from acreage award to first well, is short. In 2012, PGS acquired one such program – the world's largest single seismic 3D project – in the Kwanza Basin offshore Angola. In 2013, PGS acquired most of a 15,500 square kilometer survey offshore Uruguay.

Governments seeking to explore and better understand their continental shelf in preparation for future licensing rounds also benefit from the MultiClient business model. The latest such example was a 2D MultiClient survey PGS acquired offshore Greece in 2013.



#### MultiClient Library

PGS owns a substantial global library of marine MultiClient seismic data acquired in all of the world's major oil and gas basins. The Multi-Client data library currently comprises individual surveys totaling more than 580,000 square kilometers of 3D data and 350,000 line kilometers of recent 2D seismic acquired by PGS.

GeoStreamer is the preferred technology for MultiClient acquisition and is used for the majority of PGS' MultiClient surveys as the Company continuously builds upon and upgrades its library. Clients can extend their exploration options by enabling better geological modeling and improving prospect definition and identification using GeoStreamer data.

#### MegaSurveys and MegaProjects

MegaSurveys and MegaProjects are well-recognized PGS Multi-Client products and key business enablers. MegaSurveys are merged 3D data sets, while MegaProjects are merged 2D and 3D data sets. These products are constructed by seamlessly combining many MultiClient surveys – both PGS data sets and those of third parties – into large, contiguous, regional volumes.

MegaSurveys and MegaProjects enable oil companies to explore, with unparalleled insight, the geology and hydrocarbon potential of entire basins. Oil companies have embraced these products in their quest to understand the geology and prospectivity of their acreage, placed within a larger regional context. The findings can be applied as much to near-field exploration as to the evaluation of open blocks or farm-in and farm-out opportunities. PGS also uses MegaSurveys and MegaProjects as a pathfinder for developing new MultiClient projects.

These large integrated survey products also bring value to governments by updating and expanding their national databases. PGS has extensive MegaSurvey coverage of the North Sea, Barents Sea, Gulf of Mexico, and Northwest Australia, as well as offshore Brazil and West Africa.

PGS MegaSurveys offer total 3D coverage of more than 690,000 square kilometers. PGS MegaProjects comprise 335,000 line km of 2D data linked to 25,000 square kilometers of 3D data. PGS has also

begun to incorporate GeoStreamer data within MegaSurveys to create the MegaSurveyPlus product, which by year-end 2013 comprised more than 50,000 square kilometers of 3D data worldwide.

#### Reservoir Expertise

To meet the oil industry's growing demand for enhanced oil recovery and improved reservoir understanding, PGS is investing in state-of-the-art reservoir characterization skills and technologies. The Company's reservoir-focused services help clients to better image reservoirs, quantify reservoirs and fluid properties and, ultimately, improve drilling success.

PGS Reservoir Services provides skills that are integral to positioning and profiling PGS' MultiClient projects and vital to PGS' Imaging businesses. Reservoir Services personnel are experts in sub-surface interpretation and reservoir characterization.

Reservoir teams produce interpretation products and services, including exploration play studies and inversion volumes that complement PGS' MultiClient services and enhance the value of PGS data sets. Through these projects, PGS has gained extensive knowledge about petroleum basins around the globe and enhanced the Company's ability to accurately assess the variety of sub-surface risks a client faces.

#### **Providing a Range of Business Models**

In recent years, an increasing number of smaller-sized oil companies are pursuing business models that typically involve access to PGS' services or MultiClient library in exchange for ownership in their licenses. In order for PGS to benefit from the value creation of these equity positions while avoiding conflicts of interest, the Company has entered into an agreement with Azimuth Ltd, whereby PGS divests its direct ownership in licenses to Azimuth Ltd. PGS holds a minority ownership position in Azimuth. This arrangement provides a means for PGS to organize its equity business and monetize its stakes in licenses while remaining at arm's length from its major clients. At present, Azimuth Ltd. has three operating subsidiaries: AziNor, which concentrates on northwestern Europe; AziNam, focusing on Namibia; and AzEire, focusing on Ireland.



#### **OPERATIONS**

Building Sustainable Competitive Advantages

Operations supports both Marine Contract and MultiClient with reliable and efficient seismic production services as well as resource planning and fleet renewal strategies.

#### IN 2013 PGS TOOK DELIVERY OF



new Ramform Titan-class vessels

The implementation, management, and performance improvement of the Company's Health, Safety, Environment, and Quality ("HSEQ") systems are also major responsibilities of the Operations business area.

#### **Value Proposition**

HSEQ excellence is a core value for PGS. The Company aims to be best-in-class, with zero injury to people and minimal harm to the environment. HSEQ leadership requires continuous improvement through identifying, assessing, mitigating, and managing risks affecting employees, clients, contractors, and the environment.

The improved HSEQ performance in recent years is attributable to systematic work that builds HSEQ competence, enhances risk management, and drives ongoing HSEQ awareness among employees. In 2013 PGS further developed its risk management system to ensure all hazards associated with offshore activities are identified, risks assessed and appropriate mitigation measures are defined. Engaging in HSEQ is a top priority and PGS continues to encourage personnel to take increasingly more ownership and responsibility for HSEQ matters.

Seismic performance is improved through operational enhancements, investments, resource planning, and fleet renewal. Efficient operation of sophisticated systems enhances customer satisfaction as well as PGS' profitability.

#### The Ramform Advantage

PGS is recognized throughout the industry for its unique Ramform vessels. The seismic vessels have a delta-shaped hull distinguished

by an extremely wide aft beam, which for the new Ramform Titanclass vessels measures 70 meters wide. The broad aft workspace allows for safe and efficient deployment and retrieval of streamers and seismic sources. The acknowledged efficiency and productivity benefits of PGS Ramform vessels, the proprietary PGS seismic technologies, along with the quality of PGS' personnel, make the PGS fleet industry leading.

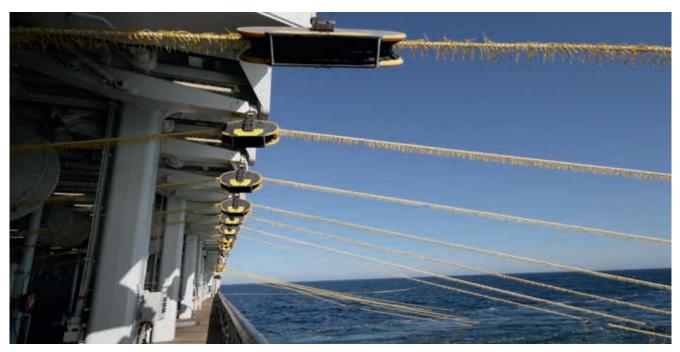
#### Continuous Focus on Reducing Technical Downtime

#### - Best-in-Class Performance

Technical downtime as a percentage of total fleet time for the PGS fleet has decreased steadily over the last 20 years. Similarly, performance over the same period has improved. Performance is a measure of how well PGS utilizes the time available to acquire seismic data. Ongoing improvement of these indicators enables PGS to remain best-in-class. Productivity leadership, a core Company ambition, will continue by combining the newest and most efficient vessels in the industry with PGS' GeoStreamer technology.

#### **Ramform Titan-class Vessels**

In late 2010, PGS launched a fleet renewal and expansion program — and two Ramform Titan-class vessels were ordered from Mitsubishi Heavy Industries in Japan in April 2011. The following year, the Company exercised its option to build two additional Ramform Titan-class vessels for delivery in 2015. The first newbuild, the *Ramform Titan*, was delivered in late April 2013 and the vessel is performing beyond expectations. The second in the series, the *Ramform Atlas*, was delivered in January 2014 and commenced her first survey in the North Sea.



The Ramform Titan-class vessels have an aft stern of 70 meters. The vessels can tow 16 streamers with 100 meter separation and has 24 streamer reels onboard. The Ramform Titan-class vessels serves the ultra high-end segment of the seismic market.

Safety, efficiency, performance, and crew comfort are the main rationale for PGS' continued investments in the Ramform design and construction of Ramform Titan-class vessels. Larger surveys and increased focus on data quality require more seismic streamers in the water. Wider back-deck working space and automated handling of equipment make the operation of a large streamer spread significantly safer and more efficient, compared to smaller-dimensioned vessels.

#### **Exploiting the GeoStreamer Benefits**

In addition to delivering superior seismic data quality, GeoStreamer significantly widens the weather window in which data acquisition can be performed. This is possible because GeoStreamer can be towed deeper than conventional streamers, since the receiver ghosts, which degrade data, have been eliminated. Improved operational efficiency is a clear PGS advantage and a significant contributor to increased margins, with customers benefitting from shorter cycle times. With an aft beam of the Ramform Titan-class vessels of 70 meters, 30 meters wider than the Ramform S- and V-class vessels, the back deck of a Ramform Titan-class vessel is stable enough to operate in harsh environments and exploit the full potential of the improved weather window created by the GeoStreamer technology.

The Ramform Titan-class vessels are bolstering PGS' position in the fast growing high-end survey market segment, where a premium

seismic data product is required in order for customers to gain a solid understanding of the geology and resource potential of deep targets with complex structures.

#### GeoStreamer Rollout

GeoStreamer is a proprietary, dual sensor streamer technology unique to PGS. Demand for GeoStreamer acquisition has surpassed all projections. GeoStreamer technology was launched in 2007 and quickly gained widespread acceptance among oil companies. PGS rolled out the new streamer technology on 2D vessels in 2008 to prove its benefits to customers. In 2009, PGS extended the rollout to 3D operations, and the Atlantic Explorer was the first 3D vessel to have the new streamer technology installed. In late 2009, Ramform Challenger was equipped with GeoStreamer to become the Company's first high-capacity Ramform vessel to deploy the advanced streamer technology. Survey and vessel performance have been excellent since the conversion to GeoStreamer. Since then, PGS has equipped all its vessels with GeoStreamers, except the Ramform Sterling, which is scheduled for GeoStreamer upgrade in 2016. The new Ramform Titan-class vessels will all be equipped with the Geo-Streamer technology.



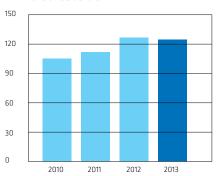
## IMAGING & ENGINEERING

Science and Technology in PGS

The Imaging department provides a full range of advanced imaging and reservoir-related processing services to a global exploration and production customer base and to PGS MultiClient business. The Engineering department constitutes PGS R&D center.

#### **IMAGING REVENUES**

In millions of US dollars



#### **Value Proposition**

PGS provides marine geophysical solutions that enable faster hydrocarbon discovery and recovery with less risk. This applies to data acquired both for external and internal customers (PGS MultiClient). The Imaging department of the Imaging and Engineering business area focuses on delivering geophysical solutions featuring significantly improved imaging and characterization. The Engineering department develops technologies and services that enhance PGS' leadership position in operational efficiency and differentiate the Company's strong service capabilities for identification and characterization of complex reservoirs.

#### GeoStreamer Advantage

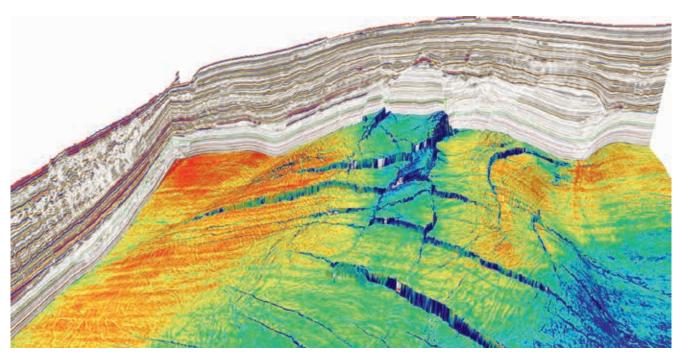
PGS reduces risk for clients in their quest for hydrocarbons in off-shore areas. A key success factor is the dual-sensor GeoStreamer technology. In contrast to all previous towed streamer technologies, GeoStreamer explicitly measures the vertical component of particle velocity for the seismic wavefield. This robust measurement leads to an explicit wavefield separation platform, which provides many opportunities for improved resolution and characterization of reservoir rocks and fluids. An entirely new arena of seismic imaging solutions has been enabled by GeoStreamer, namely, the ability to construct subsurface seismic images using multiples.

The elimination of dynamic sea-state effects upon the seismic images removes many noise modes confronting high-accuracy reservoir monitoring during reservoir depletion, and improves operational windows during rougher weather.

#### **Imaging Department**

Growth at PGS' Imaging department is mainly attributable to proprietary GeoStreamer processing and best-in-class imaging tools. Imaging is noted for several state-of-the-art products that PGS and clients consider competitive advantages. These technologies include the Separated Wavefield Imaging ("SWIM") technology, which exploits surface multiples as well as primary wavefields. An industry-leading portfolio of anisotropic velocity model building tools delivers the best images tailored to any geological scenario and challenge. High-end imaging technology has spurred stronger external revenues for the Imaging department, generated higher-quality products, and shortened cycle times. PGS' robust visualization tools have enhanced customers' target interpretation, characterization, and decision-making processes.

Dual-sensor GeoStreamer technology has proved its ability to reveal reservoir details and properties of unrivalled resolution. Each Geo-Streamer survey acquired and processed by PGS has delivered improved frequency bandwidth and data quality. So-called "broadband" solutions are becoming commonplace among competitors, yet these efforts primarily depend upon creative processing-based enhancements to conventional streamer data acquired with either flat or variable-depth streamer profiles. In short, the unique vector-based dual-sensor engineering of GeoStreamer consistently outperforms conventional streamer data processing results. Moreover, the GeoStreamer platform delivers a range of previously unrealized opportunities for better reservoir interpretation and characterization.



This 3D GeoStreamer image of a layer some 2 seconds (TWT) below the mudline (seabed) shows the excellent structural resolution achieved. A complex network of faults and fractures is crisply imaged in extraordinary detail.

#### **Engineering Department**

The Engineering department comprises the Company's research and development ("R&D") activities. Projects span a diverse range of development and support functions for marine seismic acquisition. Techniques and imaging technologies include PGS' Towed Electromagnetic ("Towed EM") technology and several innovative technologies not yet commercialized. PGS has major R&D offices in the United States, the UK, and Norway, with additional groups in the Netherlands, Sweden, Australia, and Singapore. PGS spends approximately USD 60 million annually on research and development.

New technologies that provide the right solutions to address the geophysical challenges facing a diverse customer base, are a priority for PGS' Engineering department. A cornerstone of PGS' technology leadership is implementation of efficiency and productivity enhancements, including greater automation of activities where appropriate and practical. The Company focuses on reducing the exposure of people and the environment to potential hazards in all areas of activity.

#### **Human Resources**

The outstanding competence of PGS employees and management is critical to achieve leadership in the technology markets. PGS recruits

and develops high performing leaders wherever the Company has a strategic presence. They are encouraged to reinforce PGS' reputation and customer relationships through their achievements and conduct. PGS' research and development teams proactively seek to improve their skills and product lifecycle management.

PGS invests in developing emerging technology through Technology Collaboration Agreements, joint ventures, government funding, and academic partnerships.

#### **Intellectual Property**

PGS' patents, trademarks, service marks, copyrights, and licenses protect its proprietary technology. The Company's intellectual property includes the Ramform™ seismic vessels as well as the acclaimed GeoStreamer®, GeoSource®, OptoSeis®, HD3D® and hyperBeam® technology suites. These intellectual property rights collectively represent a material business asset. As of December 31, 2013, PGS held 395 patents granted under the laws of the U.S., the UK, and Norway — an increase of 44 new patents in these jurisdictions in 2013. Additional patent-protected innovations help sharpen and preserve the competitive advantages achieved by PGS through technological differentiators.

## PGS PERFORMANCE

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## THE PGS SHARE

The PGS share has its primary listing on the Oslo Stock Exchange in Norway. In the United States, PGS' ADS are traded over the counter.

NUMBERS OF SHARES ISSUED



#### **Share Facts**

PGS has 217,799,997 shares outstanding, including American Depository Shares ("ADS"), all of which are of the same class, and carry equal voting and dividend rights. Each share has a par value of NOK 3.

The ticker code for PGS at the Oslo Stock Exchange is "PGS" and the shares are denominated in Norwegian kroner (NOK). The Company's ADS traded over the counter in the US have the ticker code "PGSVY" and are denominated in US dollars (USD). Each ADS represents one share. An American Depository Receipt, with the acronym ADR, is the actual physical certificate confirming ADS ownership. The term ADR is often used for both the certificates and the securities themselves.

#### **Share Price Development**

From roughly mid-year 2011 to the second half of 2012 prices for seismic services increased significantly. Going into 2013, expectations of further price escalations were high. In the spring of 2013, oil companies typically became more attentive to capital discipline and cash returns, a focus that became increasingly evident throughout the year. A more muted spending pattern among customers resulted in a more challenging market environment for seismic companies than initially projected. This situation was reflected in a negative share price development for a majority of seismic companies. PGS' share price declined 24 percent in 2013, including dividend paid. Other European seismic companies were also down significantly; only the shares of TGS Nopec and Spectrum outperformed PGS in 2013. However, the US oil services sector performed very well in 2013. Schlumberger, with its seismic subsidiary WesternGeco, outperformed all

PGS RANKING OF MOST TRADED STOCK ON OSLO STOCK EXCHANGE





European seismic companies; its share price increased approximately 30 percent in 2013. European seismic companies also lagged key indices, such as the Oslo Stock Exchange's Benchmark Index and the Oslo Stock Exchange 10 Energy Index.

On average, approximately 1.5 million PGS shares traded daily on the Oslo Stock Exchange in 2013. In terms of turnover value, PGS was the eighth-most traded stock. Excluding companies in which the Norwegian government is the largest shareholder, PGS ranked number three, behind Seadrill and Subsea 7. Measured by market capitalization, PGS was number 20 among all companies listed on the Oslo Stock Exchange. The liquidity of PGS' ADS is significantly lower; the average daily ADS trading volume was approximately 16,900 shares in 2013.

# Shareholders

PGS had 5,586 shareholders on record as of December 31, 2013, according to the Norwegian Central Securities Depository ("VPS").

By year-end 2013, non-Norwegian investors owned approximately 63 percent of the outstanding PGS shares. In 2013, non-Norwegian ownership decreased by approximately five percentage points, compared to the shareholder structure as of year-end 2012. The decline was mainly driven by US-based investors decreasing their proportionate holdings from approximately 26 percent to nearly 21 percent. Holdings among UK-based investors remained fairly flat at 13 percent; holdings of other non-Norwegian shareholders, mainly domiciled in Europe, also remained largely at year-earlier levels.

PGS has a diversified shareholder base in which the most commonly practiced investment strategies are present. Investors focusing on growth and Growth At a Reasonable Price ("GARP") account for approximately 45 percent of shareholders. Value investors make up approximately 30 percent, while the more risk-seeking hedge funds constitute about 5 percent. Index investors amount to 10 percent and the remaining 10 percent are shareholders with "Other" mandates, such as mixed style, venture capital funds, and private equity investors.

As of December 31, 2013, Folketrygdfondet (The Norwegian State Pension Fund) was the largest PGS shareholder, owning 21.8 million shares or 10.02 percent of outstanding shares.

# Distribution of Information and IR Activities

All Company information considered material to the capital markets is published via the Oslo Stock Exchange's news service: www.news-web.no, and posted on the Company's website: www.pgs.com. PGS holds public presentations and arranges conference calls and webcasts in connection with quarterly earnings releases. The Company hosts an annual Capital Markets Day presentation for the investment community, and management regularly meets with investors and participates at investor conferences.

#### **Treasury Shares**

PGS is authorized to purchase up to 10 percent of its own share capital. The authorization was made by the Company's 2013 Annual General Meeting and remains valid for one year following its date of registration with the Norwegian Register of Business Enterprises. As of December 31, 2013, the Company held 2,658,671 own shares, equal to 1.22 percent of total shares outstanding.

# **Analyst Coverage**

As of December 31, 2013, there were 26 sell-side analysts covering PGS on a regular basis, with market updates and estimates of PGS' financial results. Of these, nine are based in the UK, two in France, two in the US, and the rest in Norway. An updated list of analyst coverage is published on the Company's website: www.pgs.com.

# Dividend

PGS implemented its new dividend policy in 2011, with a dividend of NOK 1.10 per share paid in 2012 based on financial performance in 2011. In 2013, the dividend increased by 50 percent and amounted to NOK 1.65 per share. PGS' dividend policy is to distribute between 25 to 50 percent of net income over the business cycle, and is a testament to the Company's industrial approach to the business and its commitment to deliver cash returns to shareholders. The Board of Directors expects to propose to the 2014 Annual General Meeting a dividend of approximately NOK 2.30 per share for the 2013 financial year.

# 2014 Annual General Meeting

PGS' 2014 Annual General Meeting is scheduled for May 8, 2014 at 15:00 CET at the Company's headquarters at Lilleakerveien 4C, 0216 Oslo, Norway.

Each PGS share is entitled to one vote. Please note that Norwegian regulations stipulate that shares must be registered in the name of a specific owner in order for that person (or duly authorized agent) to be allowed to vote.

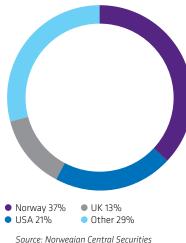
Shareholders who wish to attend the Annual General Meeting are requested to pre-register via the Company's registrar. Registration and proxy forms will be mailed to shareholders' registered addresses along with meeting documents. The registrar's contact information follows:

DNB Bank ASA
Registrar Services
PO Box 1600 Sentrum
NO-0021 Oslo, Norway
Phone:+4723268021
Email: kua@dnb.no

Owners of American Depository Shares can vote by surrendering their shares to the ADS depositary bank, Deutsche Bank, so that title

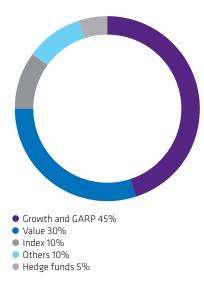


# CITIZENSHIP OF SHAREHOLDERS



Source: Norwegian Central Securities
Depository (VPS) as of December 31, 2013

# COMPOSITION OF INVESTOR STRATEGIES



Source: ThomsonReuters as of December 31, 2013

to the shares in question is appropriately recorded in the share register maintained by Norway's VPS prior to the meeting date.

# Contact Information for ADS Shareholders

The depositary bank for PGS' ADS shares is Deutsche Bank; the contact information is as follows:

Deutsche Bank Shareholder Services
American Stock Transfer & Trust Company
6201 15th Avenue Brooklyn, NY 11219, USA

E-mail: DB@amstock.com

Toll-free number: +1 800 937 5449 Direct Dial: +1 718 921 8124

# **Corporate Debt Rating**

PGS is rated 'BB' by Standard and Poor's and 'Ba2' by Moody's Investor Service. In 2011, the Company issued USD 300 million of Senior Notes with seven years maturity, and in 2012 an add-on of USD 150 million aggregate principal amount was placed at 107.5 percent of par. Both Standard and Poor's and Moody's Investor Service awarded the facility the same rating they had applied at the corporate level. PGS' secured debt, which includes the Term Loan B and the Revolving Credit Facility, is only rated by Moody's Investor Service; Moody's awarded these obligations the same rating as applied at the corporate level.



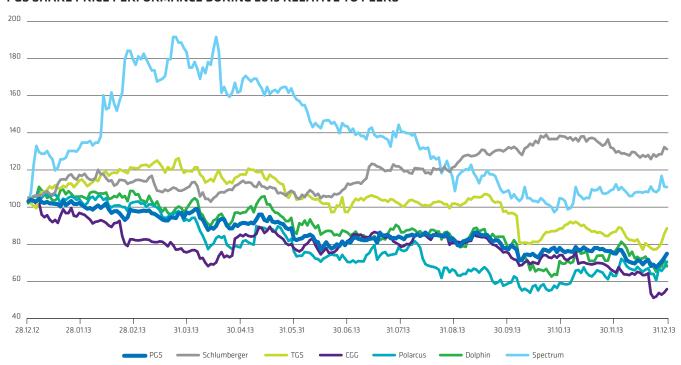
# **20 LARGEST PGS SHAREHOLDERS**

As of December 31, 2013

Rank	Shareholder	Shares held	Ownership in %
1	FOLKETRYGDFONDET / THE NORWEGIAN STATE PENSION FUND	21 822 711	10.02
2	EUROCLEAR BANK	9 897 049	4.54
3	CLEARSTREAM BANKING	7 255 245	3.33
4	STATE STREET BANK	6 788 618	3.12
5	DEUTSCHE BANK TRUST DEPOSITORY RECEIPTS 1)	5 038 678	2.31
6	VARMA MUTUAL PENSION COMPANY	4 789 879	2.20
7	JPMORGAN CHASE BANK	4 504 814	2.07
8	JPMORGAN CHASE BANK	4 369 665	2.01
9	TAPIOLA	4 300 000	1.97
10	STATE STREET BANK	3 906 224	1.79
11	STATE STREET BANK	3 498 132	1.61
12	VERDIPAPIRFONDET DNB	3 427 199	1.57
13	VERDIPAPIRFONDET DNB	3 194 859	1.47
14	JPMORGAN CHASE	3 127 589	1.44
15	STATE STREET BANK	3 026 661	1.39
16	GOLDMAN SACHS	2 932 646	1.35
17	PETROLEUM GEO-SERVICES ASA	2 658 671	1.22
18	HSBC BANK	2 360 514	1.08
19	CITIBANK	2 091 641	0.96
20	VANGUARD INTL. BROWN BROTHERS HARRIMAN	2 069 250	0.95
Total:	20 largest shareholders	101 060 045	46.40

<sup>&</sup>lt;sup>1)</sup> The beneficial owners of American Depository Shares held by depositaries are not disclosed in the above table due to depository agreement terms.

# PGS SHARE PRICE PERFORMANCE DURING 2013 RELATIVE TO PEERS





# CORPORATE GOVERNANCE

Petroleum Geo-Services is committed to maintaining high standards of corporate governance. We believe that effective corporate governance is essential to our Company's success and establishes the framework by which we conduct ourselves in delivering services to our customers and creating value for our shareholders.

Petroleum Geo-Services ASA is registered in Norway as a public limited liability company, and our corporate governance model is based on Norwegian corporate law and the Norwegian Code of Practice for Corporate Governance (the NUES Recommendations). To the extent practicable, PGS adheres to requirements applicable to registrants of foreign securities in the United States, where our American Depositary Shares (ADS) are publicly traded. We have also implemented corporate governance guidelines particularly suited to our Company and the industry in which we operate.

The Norwegian Public Limited Liability Companies Act section 5-6 (4) requires that the Ordinary General Meeting approves the statement of Corporate Governance. Consequently, this report will be presented to the General Meeting on May 8, 2014.

Our corporate governance principles, which have been adopted by our Board of Directors, are summarized below. Our website provides full versions of our basic corporate governance documents. These items include the Company's Articles of association, corporate governance policy, the Board of Directors' Rules of Procedure, and the charters for the Company's Audit Committee, Remuneration and Corporate Governance Committee, and Nomination Committee. The documents can be downloaded from our website: www.pgs.com.

In accordance with the Norwegian Accounting Act section 3-3b, PGS is required to give a statement of our corporate governance in the Board of Directors report. In the Board of Directors report we refer to this document.

# 1. Code of Conduct, Core Values and Corporate Responsibility

We have adopted a Code of Conduct that reflects our commitment to our shareholders, customers, and employees to carry out our business with the utmost integrity. Our Code of Conduct and Core Values are available in full on our website: www.pgs.com.

At the heart of our Core Values is also a serious approach to Corporate Responsibility. We have built our framework for Corporate

Responsibility around four key areas: People, Environment, Conduct, and Stakeholders. For a further description, see our Corporate Responsibility Report, which is available at www.pgs.com.

#### 2. Business

PGS is a focused geophysical company providing a broad range of seismic and reservoir services, including acquisition, processing, interpretation, and field evaluation. The company also possesses the world's most extensive multi-client data library. PGS operates on a worldwide basis with headquarters in Oslo, Norway.

Our business purpose, as presented in the Company's Articles of Association, is as follows:

"The business of the Company is to provide services to and participate and invest in energy related businesses."

Our business operations and the goals and strategies for our business areas are presented in greater detail on pages 15–16 and 24–31 of this annual report.

# 3. Equity and Dividends

Shareholders' equity as of December 31, 2013 was \$2,065.6 million, corresponding to 58% of total assets. The Board of Directors believes that the Company's net interest-bearing debt should be at moderate levels and not exceed two times annual EBITDA in the weak part of a business cycle and not exceed one times annual EBITDA at the peak of the cycle. The current net interest-bearing debt of \$666.7 million is well within this range, and the Company's funding and equity positions are considered satisfactory by the Board of Directors. The Board continually monitors the adequacy of the Company's equity in light of its objectives, strategy, and risk profile.

The Board of Directors has adopted a dividend policy whereby it is the intention to distribute 25 to 50 percent of net income as dividends.

The Board of Directors is authorized to buy back up to 10 percent of the



Company's share capital. The current authorization expires on June 30, 2014. However, the authorization will – as always – be replaced by a new authorization at the next Annual General Meeting ("AGM").

It has been an ongoing practice of PGS shareholders to grant limited authorizations to the Board of Directors permitting it to increase the Company's share capital and/or acquire the Company's shares (treasury shares) for certain defined purposes. Separate General Meeting votes are held for (a) authorizations related to employee stock option programs and (b) authorizations for other purposes. When a proposed authorization encompasses share capital increases and/or acquisition of treasury shares for various purposes, the Company does not find it practical to hold separate votes on each proposed purpose. Authorizations are time-limited, see the paragraph above.

# 4. Equal Treatment of Shareholders and Transactions with Close Associates

PGS has a single share class and all shares carry the same rights. At our General Meetings, each share carries one vote. Our Board of Directors is committed to equal treatment of shareholders in all respects.

When applicable, transactions involving the Company's own shares should be carried out through a stock exchange, or at prevailing stock-exchange prices if carried out in an alternative manner.

Transactions between the Company and shareholders, a shareholder's parent company, members of the Board of Directors, executive officers, or close associates of any such party (referred to as "Close Associates") shall be conducted at arm's length and at market terms. Material transactions with Close Associates will be subject to independent valuation by third parties. According to PGS' Code of Conduct, our employees shall not have any personal or financial interest that might conflict with those of PGS nor influence, or appear to influence judgments or actions in carrying out their responsibilities on behalf of the Company. According to our Rules of Procedure, a member of our Board of Directors may not participate in discussions or decision-making as to issues in which the director or any person closely associated with the director has a material personal or financial interest. The Code of Conduct and Rules of Procedure are available on our website: www.pgs.com.

# 5. Freely Transferable Shares

The Company's shares are freely transferable.

# 6. General Meetings

Through participation in General Meetings, our shareholders exercise ultimate authority over the Company and elect the members of its Board of Directors and the chairperson of the Board of Directors.

Pursuant to PGS' Articles of Association, the notice of an AGM is distributed at least four weeks in advance of the meeting to sharehold-

ers or their depository banks. For ADS holders, the record date for notice-distribution purposes is set at approximately five weeks prior to the AGM. A copy of the call notice with appendices will be posted on our website: www.pgs.com.

Notices convening Extraordinary General Meetings ("EGM") must be distributed at least two weeks ahead of the meeting. The Board of Directors is to call shareholders to an EGM upon a written demand by the Company's independent auditor or shareholders representing at least five percent of the share capital, or for other purposes.

Shareholders who wish to attend a General Meeting must notify the Company's registrar or PGS by the deadline stated in the meeting notice, which must be at least two working days before the General Meeting.

According to the Company's Articles of Association, documents to be considered at the General Meeting may be published on our website. The same applies to documents that, due to statutory requirements must be attached to, or included in the notice calling the General Meeting. If the documents are published in such a manner, the statutory requirements for distribution shall not apply. Nevertheless, shareholders are entitled to request that documents to be considered by the General Meeting be sent to them via regular mail.

To vote at General Meetings, in person or by proxy, a shareholder must be registered with the Norwegian Central Securities Depository (VPS). Holders of American Depositary Shares ("ADS") may vote according to the underlying shares by: (a) having the underlying shares transferred to an account with the Norwegian Central Securities Depository in the name of the holder, (b) attending the meeting as a shareholder by providing their name and address and a confirmation from Deutsche Bank, depositary for the ADS, to the effect that they are the beneficial owner of the underlying shares, or (c) authorizing Deutsche Bank to vote the ADS on their behalf in accordance with specific guidelines.

An owner with shares registered through a custodian has voting rights equivalent to the number of shares covered by the custodial arrangement, provided that the owner of the shares, within two working days ahead of the General Meeting, provides PGS with his or her name and address together with written confirmation from the custodian to the effect that he or she is the beneficial owner of the shares held in custody.

Written and/or electronic voting in accordance with the Norwegian Public Limited Liability Companies Act, section 5-8b, shall be allowed for meetings where such method of voting is arranged by the Board of Directors.

All directors generally attend the AGM together with the chairman  $\,$ 



of the nomination committee and the auditor. In accordance with our Articles of Association, the chairperson of the Board of Directors chairs General Meetings. This is a deviation from the NUES Recommendation (identified below) No. 6 for making arrangements to ensure an independent chairman for the General Meetings. The reason for this deviation is that the Company has found this more practical and that PGS wishes to ensure that General Meetings are chaired by a competent person having proper insight into PGS' overall operations.

#### 7. Nomination Committee

According to our Articles of Association, the Company has a Nomination Committee comprised of three members to be elected by our shareholders at the AGM. Nominations should take into account the interests of shareholders in general. The members and the chairperson of the Nomination Committee are elected at the General Meeting. The majority of Nomination Committee members shall qualify as independent parties, pursuant to the Norwegian Code of Practice for Corporate Governance. The term of service shall be two years unless the General Meeting determines that the period shall be shorter.

The Nomination Committee's main responsibilities, which are set out in its charter, are to propose nominees for election as members and chairperson of the Board of Directors and the Nomination Committee. Further, the Committee proposes remuneration to be paid to members of the Board of Directors and Nomination Committee. Remuneration is approved by the General Meeting. Annually, the Nomination Committee produces a written report containing its nominations and proposals, which is distributed in advance of each AGM.

Once a year, the Nomination Committee meets with each director individually and discusses how the Board and its committees function and whether there is a need for changes to the Board.

# **Current Nomination Committee**

The current Nomination Committee comprises Roger O'Neil (chair-person), C. Maury Devine, and Hanne Harlem. All three were re-elected at the AGM held May 14, 2013 for a service period ending with the 2014 AGM.

Shareholders who wish to propose new Board members may do so by submitting a candidate's name to PGS' investor relations staff via the Company's website: www.pgs.com by following the link, "Nominate a Board Member." The deadline for submissions each year is the end of February. Alternatively, candidates can be proposed by letter to PGS or via email to: ir@pgs.com. PGS does not employ any Nomination Committee members and none is a member of the Board of Directors.

In 2013, the Nomination Committee held four meetings. The Nomination Committee's report on its work and recommendations will be distributed with the notice of the 2014 Annual General Meeting.

# 8. Board of Directors - Composition and Independence

According to PGS' Articles of Association, our Board of Directors shall have from three to thirteen directors. The period of service for members of the Board of Directors shall be one year.

The Board has adopted its own Rules of Procedure that establish in more detail its roles and responsibilities, including:

- Directors' qualifications
- Requirement that a majority of the Board, a majority of the members of the Remuneration and Corporate Governance Committee, and all members of the Audit Committee are considered to be independent directors
- Annual review and determination of the independence of each director.

The composition of the Board of Directors is a reflection of the Company's commitment to protect the common interests of all shareholders and the Company's need for expertise, capacity, and diversity.

All directors are independent of the Company's management. All directors are also per December 31, 2013, independent of our major business relations and major shareholders. The Board of Directors has considered whether Walter Qvam, who was appointed to the Board of Directors in November 2013, can be considered independent as he is the Chief Executive Officer of Kongsberg Gruppen ASA. Kongsberg Gruppen ASA, through its subsidiaries, is a provider of various services and equipment to PGS. However, this activity is not significant for either of the two companies involved, and PGS' Board has concluded that Mr. Qvam is to be regarded as independent of the Company. No member of our Board of Directors may be an executive of PGS. Directors are not permitted to perform paid consultancy work for PGS. Five board members, directly or indirectly, own PGS shares.

Shareholders and other interested parties may communicate directly with our independent directors by written correspondence addressed to Petroleum Geo-Services, Board of Directors (Independent Members), Secretary of the Board of Directors or to the Company's General Counsel Rune Olav Pedersen, PO Box 251, NO-0216 Oslo, Norway. Further, our website: www.pgs.com invites shareholders wishing to discuss corporate governance or corporate responsibility matters to contact Mr. Pedersen by phone or arrange a meeting with him.

# **Current Board of Directors**

As of December 31, 2013, the Board of Directors comprised nine shareholder representatives. Current board members are presented on the Company's website: www.pgs.com and in this annual report.

# 9. The work of the Board of Directors

In accordance with Norwegian corporate law, our Board of Directors has overall responsibility for management of the Company, while the Company's Chief Executive Officer ("CEO") is responsible for day-to-day management.



The Board of Directors provides oversight of the CEO's day-to-day management and company activities in general. The Board of Directors is also responsible for ensuring that appropriate management, guidelines, and control systems are in place and are followed. The CEO, as agreed with the chairperson of the Board of Directors, annually submits a schedule for the meetings of the Board of Directors in the upcoming calendar year. The schedule is subject to Board approval. In 2013, the Board of Directors held nine meetings including conference calls. During 2013, all directors participated in all meetings and conference calls, with the exception of one director who missed one meeting and another director who missed one conference call.

Key elements of the Rules of Procedure cover the Board of Directors' responsibilities to determine the Company's financial targets, set strategies along with the CEO and executive committees, and approve business plans, budgets, and budgetary and risk frameworks. In its supervision of the Company's business activities, the Board of Directors will seek to ensure that satisfactory procedures are in place for monitoring and follow-up of Board-approved corporate principles and guidelines covering areas such as ethical conduct; adherence to laws, rules, and regulations; health, safety and environment; and corporate social responsibility.

The Rules of Procedure also require an annual self-evaluation to determine whether the Board of Directors and its committees are functioning effectively. The annual self-evaluation is prepared and facilitated by the Remuneration and Corporate Governance Committee. An anonymous survey is carried out and the findings are discussed by the Board of Directors. The survey's findings are made available to the Nomination Committee. The Chairperson of the Nomination Committee also shares with the Board relevant information for improvement of Board processes that may come up in their annual interviews with individual directors.

Each scheduled Board of Directors meeting includes a separate session at which issues may be discussed without the presence of management.

The tasks and duties of the CEO vis-à-vis the Company's Board of Directors are also outlined in the Rules of Procedure, along with the tasks and duties of the chairperson of the Board of Directors. The CEO participates in all board meetings other than closed sessions. The Board of Directors elects a vice chairperson to chair board meetings in the chairperson's absence. The full text of the Board of Directors' Rules of Procedure is available at: www.pgs.com.

Our governance structure is organized as described below.

Our Board of Directors is responsible for the development and supervision of our business activities. The Board has established an Audit

Committee and a Remuneration and Corporate Governance Committee to assist in organizing and carrying out its responsibilities.

# Board responsibilities include:

- The Board of Directors appoints the Company's CEO
- The Board of Directors, along with the CEO, is committed to operating PGS in an effective and ethical manner in order to create value for the Company's shareholders. Our Code of Conduct requires management to maintain an awareness of the risks involved in carrying out our business strategies. Personal interests must not override or conflict with the interests of PGS.

# The responsibilities of the CEO include:

- Day-to-day management of company activities
- Organizing PGS' Executive Committees and the Disclosure Committee to further assist the CEO
- ◆ The CEO, under the guidance and supervision of the Board of Directors and the Audit Committee, is responsible for ensuring that the Company's financial statements in all material respects, fairly present the Company's financial condition and the results of its operations. Timely disclosure of issues to the Board of Directors is also essential to the assessment of the Company's financial condition, business performance and risks.

# **Board of Directors Committees**

Our Audit Committee comprises board members Harald Norvik (chairperson), Carol Bell, Daniel J. Piette, and Anne Grethe Dalane. All committee members are considered independent of the Company. The committee's functions are to assist the Board of Directors in its supervision of the integrity of PGS' financial statements; to monitor the independent auditor's qualifications, independence and performance; to monitor the performance of the internal audit function; and to promote and review compliance with laws and regulatory requirements.

PGS' Remuneration and Corporate Governance Committee comprises board members Holly Van Deursen (chairperson), Annette Malm Justad, Ingar Skaug, and Walter Qvam. The function of the committee is to assist in matters relating to compensation, benefits, and perquisites of the CEO and other senior executives. Review and modification of the Company's guidelines for good corporate governance are also committee responsibilities.

# 10. Risk Management and Internal Control

The Board of Directors is responsible for ensuring that appropriate guidelines, monitoring, and internal control systems are in place and effective. These are to include embedding risk management, designating risk ownership, and implementing risk responses and controls.

The Board of Directors has systems in place to ensure that the CEO exercises appropriate and effective management. The Board of



Directors' Audit Committee assesses the integrity of PGS' accounts. It also inquires into, on behalf of the Board of Directors, issues related to financial review and external audit of PGS' accounts. Further, the Board of Directors and the Audit Committee supervise and verify that effective internal control systems are in place, including systems for risk management and financial reporting.

The Board of Directors and the Audit Committee take steps to ensure that the Company's internal control functions are working as intended and that necessary measures are taken to reduce extraordinary risk exposure. Furthermore, the Board of Directors makes certain that there are satisfactory routines for follow-up of principles and guidelines adopted by the Board of Directors governing ethical conduct; compliance with laws, rules and regulations; health, safety and working environment; and corporate social responsibility.

The Company's anti-corruption program includes a policy, a management statement, and procedures as to several ethical issues, periodic training, high risk area assessment and monitoring, compulsory contract wording, etc. The policy and procedures are available at www. pgs.com. The program is evaluated on a regular basis by the Audit Committee.

Management maintains and regularly reviews a risk matrix setting out the main risks for the Company. These risk factors and the Company's risk mitigating activities are subject to discussion in the Board of Directors at least once a year.

Management conducts day-to-day follow-up of financial management and reporting. Management has established a structured process to ensure that Internal Control over Financial Reporting is effective. The process includes identification and assessment of all material financial reporting risks, identifying and documenting relevant controls to address these risks, and monitoring that controls are implemented and performed. For controls that are not operationally effective at year-end, their potential financial exposure and impact on the consolidated financial statements are evaluated.

# **Internal Audit Department**

PGS has an Internal Audit Department reporting directly to the Audit Committee on its audit planning and audit reports. The purpose of the Internal Audit Department is to perform independent, objective assurance and consulting activities that add value and improve the Company's initiatives in financial, operational and compliance areas.

The scope of work for the Internal Audit Department includes determining whether the Company's risk management, control, and governance processes, as designed and represented by management, are adequate and well-functioning. The department has established a process for ensuring that adequate internal control-related activities are integrated into significant PGS business operations world-

wide and that focus is directed towards areas of perceived high risk. Any non-conformance is systematically followed up and corrective measures are implemented and their effects monitored.

# 11. Remuneration of the Board of Directors and Executive Management

Remuneration of board members is not linked to performance but is based on participation in meetings and is subject to annual approval by the General Meeting. Board members shall not solicit or accept specific assignments for PGS beyond their role as Board members. Board members do not hold any PGS share options.

For details on compensation to individual board members, please see Note 28 to the financial statement of PGS.

Remuneration payable to board members will be proposed by the Nomination Committee according to its charter, and submitted to the AGM for approval.

Executive remuneration is one of the primary tasks of the Remuneration and Corporate Governance Committee. The committee annually reviews the total compensation level, the mix between fixed and performance related compensation and the mix between short, medium and long-term compensation. The Remuneration and Corporate Governance Committee has developed an annual schedule in order to ensure and facilitate a structured approach to the annual review of executive compensation. The committee has also engaged an external advisor for this work.

A specific peer group of comparable companies and an executive remuneration philosophy have been adopted. The peer group currently consists of seventeen companies from Norway, Europe, and the Americas. All companies are of comparable size and have international operations in the oil service sector. The external advisor collects and compiles relevant information on peer group companies. This information is used by the Remuneration and Corporate Governance Committee for benchmarking executive remuneration. The executive remuneration policy document includes certain targets and guidelines on how the Company's executives should compare to the peer group. These tools amongst others, are used by the Remuneration and Corporate Governance Committee to decide on an appropriate remuneration structure and to set appropriate total remuneration.

Compensation for the CEO adheres to the same process as that used for other executives, but is also subject to approval by the Board of Directors

PGS currently has a compensation structure for executive managers that includes a base salary, benefits such as newspaper and mobile phone subscriptions, cash bonuses, pension plans, and stock-based



long-term incentive programs. Features of these programs include an absolute ceiling on performance-related remuneration and a cap on maximum gain on option programs.

For further details on the compensation structure and total compensation to executive team members, see Note 28 to the financial statement of PGS

# 12. Information and Communications

The Board of Directors is committed to reporting financial results and other relevant information based on openness and the requirement of equal treatment of all shareholders and securities market participants. The Company complies with relevant disclosure rules and regulations. Announcements are released through the Thomson Reuters reporting channel and posted on the Oslo Stock Exchange's news service: www.newsweb.no. In addition, all announcements are available on the Company's website: www.pgs.com. The Company's policy of accessibility for shareholders is also presented on the Company's website.

The Company has an investor relations function to ensure that requests for information from shareholders, analysts and other interested parties are satisfied. The Company has an active investor communication program which includes senior management roadshows in connection with reporting of financial results, presentations at relevant investor conferences, and availability for one-on-one meetings. The Company hosts a Capital Markets Day presentation once a year.

The Board of Directors and the Nomination Committee send a letter to the largest shareholders once a year inviting them to join in a dialog on corporate governance and corporate responsibility matters. The letter is also posted on www.pgs.com and any shareholder may initiate communication with the Company on these matters. During 2013, several meetings and phone conferences were conducted with shareholders under this initiative.

# 13. Takeover Bids

The Board of Directors has established guiding principles for how it will act in the event of a takeover bid. The Board of Directors will ensure that all shareholders are treated equally and seek to prevent disruptions to, or interference with, Company operations to the extent possible. In the event of a takeover bid, the Board of Directors will, in accordance with its overall responsibilities and good corporate governance, act in the best interest of shareholders and ensure that

they are given sufficient information in the matter. If a takeover bid is made, the Board of Directors will issue a statement containing a recommendation as to whether the shareholders should accept or reject the offer, including an independent valuation of the offer. The Company's Articles of Association do not contain any restrictions, limitations, or defense mechanisms against acquisition of its shares.

# 14. Auditor

The Audit Committee shall support the Board of Directors in the administration and exercise of its responsibility for supervision of the work of the independent auditor, who shall keep the Board of Directors informed of all aspects of its work for PGS. This duty includes submission of an annual plan for the audit of PGS. The auditor attends all Audit Committee meetings and, at least twice a year, meets with the Audit Committee without the presence of management. In-house policies govern the use of the auditor's services. Use of the auditor for services other than the audit of PGS requires pre-approval by the Audit Committee.

The independent auditor meets with the full Board of Directors at least once a year in connection with the preparation of the annual financial statements and, at least once a year, presents a review of PGS' financial reporting and internal control procedures for financial reporting. At least once a year, the independent auditor meets with the Board of Directors without the presence of any member of the executive management.

Remuneration paid to the auditor for mandatory and other audit services will be reported to the AGM for approval.

# 15. Compliance with Laws, Rules, Regulations and Recommendations

As part of PGS' Business Practice outlined on www.pgs.com, PGS is inter alia committed to comply with relevant laws, rules, and regulations. In addition, PGS complies with the current recommendations set forth in the NUES Recommendations, subject only to deviations identified and justified in this report. The NUES Recommendations are available at www.nues.no.

The Board of Directors further conducts periodic reviews of PGS' corporate governance policies and procedures, including the Board of Directors' Rules of Procedure. This process is conducted annually and managed by the Remuneration and Corporate Governance Committee. Any changes to policies or procedures are presented to the Board of Directors for approval.



# BOARD OF DIRECTORS 2013



Francis Gugen Chairperson Elected 2003



**Harald Norvik**Vice Chairperson
Elected 2003
Audit Committee Chairperson



Holly Van Deursen Board member Elected 2006 Remuneration and Corporate Governance Committee Chairperson



**Daniel J. Piette**Board Member *Elected 2007*Audit Committee Member

Mr Gugen was elected PGS Board Chairman in May 2009. Currently an energy-industry consultant and investor, he worked at Amerada Hess Corporation for 18 years, from 1982 to 2000. Mr. Gugen served as Chief Executive of Amerada Hess UK from 1995 to 2000 and Amerada Hess' Chief Executive of North West Europe from 1998 to 2000. His board positions at listed companies include Board Chairman of IGas Energy Plc and Board Member of SBM Offshore NV; Mr. Gugen is an IGas Energy investor. Francis Gugen is also Chairman of the Board and investor in a number of privately held companies. A UK chartered accountant, he has also worked at Arthur Andersen. As of April 10, 2014, Mr. Gugen owns 30,000 PGS shares.

Mr Norvik is an independent advisor and consultant. He is Board Chairman of Aschehoug Publishing House and Board Member of ConocoPhillips, Inc., Deep Ocean Holding, and Umoe. Mr. Norvik was President and Chief Executive Officer of Statoil from 1988 to 1999. From 1981 to 1988, he was Finance Director and a Member of the Executive Board of the Aker Group. Harald Norvik served as Personal Secretary to the Prime Minister of Norway and as State Secretary in the Ministry of Petroleum and Energy from 1979 to 1981. He received his Master of Science in Business from the Norwegian School of Economics and Business Administration. As of April 10. 2014. Mr. Norvik owns 8,000 PGS shares.

Ms. Van Deursen currently holds non-executive director positions with Petroleum Geo-Services, Bemis Company, Inc., Actuant Corporation, Capstone Turbine Corporation, and Anson Industries, Inc. She served on BP nlc's Top-Forty Executive Team as Group Vice President, Petrochemicals from 2003 to 2005 and Group Vice President, Strategy from 2001 to 2003. Prior to these executive appointments, Ms. Van Deursen held a variety of senior positions with BP and Amoco in Chicago, London, and Hong Kong and has served on the boards of directors of the American Chemistry Council and Amoco's joint ventures in Korea, Taiwan, and Japan. Ms. Van Deursen holds a B.Sc. in Chemical Engineering from the University of Kansas and an MBA from the University of Michigan. As of April 10, 2014, Ms. Van Deursen owns 2.000 PGS shares

Mr Piette is Executive Chairman of TerraSpark Geosciences, a software company that offers technology for the interpretation of seismic data. Previously, Mr. Piette was President, CEO, and a Board Member of Object Reservoir. Mr. Piette was President and CEO of OpenSpirit Corporation from 2003 to 2011. After receiving his B.Sc. with honors in Mining Engineering from the University of Wisconsin-Madison in 1980, he held several executive management positions in the oil and gas industry, including business unit manager for the land acquisition systems group at Input/Output. President and CEO of Bell Geospace, and Vice President and General Manager of the Asia Pacific region for Landmark Graphics. As of April 10, 2014. Mr. Piette owns 7.000 PGS shares.





Annette Malm Justad Board Member Elected 2008 Remuneration and Corporate Governance Committee Member



Carol Bell
Board Member
Elected 2009
Audit Committee Member



Ingar Skaug Board Member Elected 2009 Remuneration and Corporate Governance Committee Member



Walter Qvam
Board Member
Elected 2013
Remuneration and Corporate
Governance Committee
Member



Anne Grethe Dalane Board Member *Elected 2013* Audit Committee Member

Ms. Malm Justad is an independent consultant and board member. She has served as CEO of Eitzen Maritime Services ASA, Vice President and Head of Purchasing for Yara International ASA, and Vice President and Fleet Manager of Norgas Carriers AS. At Norsk Hydro ASA. Annette Malm lustad held various technical and commercial positions. Ms. Malm lustad holds a Master's degree in Technology Management from MIT/ NTH, as well as an M.Sc. in Chemical engineering from the Norwegian University of Science and Technology. Board memberships include Board Chairman of American Shipping Company and Store Norske Spitsbergen and Board Member of Awilco. As of April 10,2014, Annette Malm lustad does not own any PGS shares.

Dr. Bell has over 30 years of experience in the energy industry, with particular expertise in investment and financing in the oil and gas sector. She is a non-executive director of Salamander Energy plc and Caracal Energy Inc (both London Stock Exchange). She has held senior positions in investment banking, including Managing Director of the Global Oil & Gas Group at Chase Manhattan Bank, Head of European Equity Research at IPMorgan and Global Head of its Oil and Gas Equity Research Team. Dr. Bell began her career in corporate planning and development with RTZ Oil and Gas and later worked at Charterhouse Petroleum plc. She was awarded a Ph.D in May 2005 for her research on the evolution of economic and trade relations in the Ancient Eastern Mediterranean across the Late Bronze/ Iron Age transition, and in 2006 published a book on this subject. Dr. Bell is Honorary Treasurer of the British School in Athens. She was educated as a scientist, earning an M.A. in Biochemistry from Cambridge University, a B.A. in Geology from the Open University, and a Ph.D. in Archaeology from University College, London. As of April 10, 2014, Dr. Bell owns 5,000 PGS shares.

Mr Skaug was Group CEO of the maritime industrial group Wilh. Wilhelmsen ASA from 2003 to 2010, after having served in several senior management positions within the group since 1990. Previously, Mr. Skaug was VP and Deputy Chief Operating Officer of SAS Airlines, a position that capped nearly three decades. Mr. Skaug is a Board Member of the ferry, roll-on roll-off, and logistics company DFDS AS, the travel hureau Berg-Hansen and Bery Maritime. He is also Board Chairman of Center for Creative Leadership, Ragni Invest, and Deputy Board Chairman and a member of the auditing committee of J. Lauritzen AS. In 2013 he joined Environor AS and Vectura AS as Board Chairman and ABN/AGN as Board Member. He received his MBA degree from the University of Nürnberg, Germany. As of April 10, 2014, Mr. Skaug does not own any PGS shares.

Mr Qvam is President and Chief Executive Officer of Kongsberg Group ASA. He has previously held leading positions in various prominent Norwegian and international businesses in a variety of fields, including oil & gas, shipping (DNV - Det Norske Veritas), IT (Capgemini), transportation (the Norwegian State Railway) and consultancy (Gemini Consulting). Mr. Ovam graduated Master of Science (M.Sc.) from the Norwegian University of Science and Technology (1979), and has also studied at INSEAD in Singapore (1985). He is Chairman of the Council of Det Norske Veritas. As of April 10, 2014, Mr. Qvam does not own any PGS shares.

Ms. Dalane is a senior executive at Yara International and previously held a number of senior positions at Norsk Hydro. She is currently Business Process Owner, Sales at Yara International. Her previous experience covers a range of fields including HR as well as oil and gas. She has been Region Director Latin America and Country Manager of Argentina. Ms. Dalane's background is in economics and she holds a business degree from the Norwegian School of Economics NHH. As of April 10, 2014, Anne Grethe Dalane does not own any PGS



# BOARD OF DIRECTOR'S REPORT

Margins were higher in 2013 compared to 2012. Solid performance from all business areas and the increasing effects of the Company's 2012 Profit Improvement Program contributed to the improvement.

RECORD MULTICLIENT LATE SALES OF USD MILLION



The marine seismic market changed to become more challenging in the latter half of 2013. PGS responded to this situation by switching more capacity to MultiClient projects that met its rigorous performance criteria, and thereby being able to focus on the best contract jobs and maintaining good profitability. The platform for future earnings has increased with the delivery of *Ramform Titan* and *Ramform Atlas*, and will improve further when the Company takes delivery of the last two Ramform Titan-class vessels in 2015, combined with a continuous improvement of the GeoStreamer technology platform.

Petroleum Geo-Services ("PGS" or "the Company") is a focused Marine geophysical company that provides a broad range of seismic and reservoir services, including acquisition, imaging, interpretation, and field evaluation. The Company's MultiClient data library is among the largest in the seismic industry, with modern 3D coverage in all significant offshore hydrocarbon provinces of the world. The Company operates on a worldwide basis with headquarters in Oslo, Norway.

PGS is organized into four business areas: Marine Contract, MultiClient, Operations, and Imaging & Engineering ("I&E").

• Marine Contract: manages projects and customer relationships pertaining to seismic data acquired under exclusive contracts; the diversified customer base comprises a broad range of the world's independent and national oil and gas exploration and production companies. PROPOSED DIVIDEND
PER SHARE FOR 2013 (IN NOK)





- MultiClient: initiates and manages projects and customer relationships pertaining to seismic data licensed on a non-exclusive basis from the Company's data library of seismic surveys. The PGS MultiClient library covers substantial areas in the major offshore hydrocarbon basins that the Company and its customers deem to have the highest potential for exploration and production, such as the North Sea, offshore West Africa, Brazil, the Gulf of Mexico and the Mediterranean Sea.
- Operations: supports both Marine Contract and MultiClient with reliable and efficient data acquisition by managing operations of the Company's seismic vessels and related equipment, including fleet expansion and maintenance.
- ◆ IGE: processes seismic data acquired for PGS' MultiClient library and as a contract service to external customers. It also manages the Company's research and development activities.

# 2013 Business Highlights

Operating profit in 2013 increased from the previous year, despite a slight decline in revenues. This improvement reflects higher profitability for all business areas and the growing impact of the Company's Profit Improvement Program.

Late sales were at a record high, delivering good returns on the investments made in MultiClient. The strong late sales performance demonstrates healthy demand for quality products in attractive locations, despite a generally increased focus on cost and improved cash flow among customers. Going forward, the Company aims to further increase late sales by capitalizing on the 2013 investment in MultiClient.

In April, PGS took delivery of *Ramform Titan*, the first in a series of four Ramform Titan-class vessels. *Ramform Titan* is the most powerful and efficient marine seismic acquisition vessel in the world. The vessel has performed above expectations, being put to the test in the North Atlantic and offshore the Falkland Islands. With the *Ramform Titan*, the Company has been able to fully utilize all the weather benefits of GeoStreamer technology, and thereby further improve efficiency.

Financial flexibility remains a strategic ambition for PGS. In the fall of 2013, the Company increased its revolving credit facility by \$150 million to \$500 million and extended the maturity by three years to 2018. With the successful completion in March 2014 of both the refinancing of the Term Loan B and the Japanese export credit financing for the two last Ramform Titan-class vessels, the average time to maturity for the Company's debt and drawing facilities has increased to almost six years.

In 2013, PGS gained greater market recognition of its Towed Electro Magnetic ("Towed EM") and imaging technologies. In the fourth quarter, the Company completed the first ever full-scale simulta-

neous acquisition of Towed EM and 2D GeoStreamer seismic. The MultiClient program was undertaken with industry support. Turning to Imaging, the new GeoStreamer imaging technology, Separated Wavefield Imaging ("SWIM") in combination with Full Waveform Inversion, have enabled velocities to be set much more accurately and thereby achieve a perfect seismic tie at well locations in areas where, until now, this had been impossible to reliably accomplish this by using conventional seismic data.

In November, PGS commenced the acquisition of its Triton Full Azimuth GeoStreamer survey in the Gardens Banks and Keathley Canyon areas of the Gulf of Mexico. There are a number of discoveries already within the limits of the survey. PGS is applying all of its latest technologies to deliver the best possible image of the subsurface in an area of the Gulf of Mexico where the geology is very complex.

As a follow-up to the 2012 Profit Improvement Program, PGS introduced a Quality Improvement Program in 2013. The aim of this latest program is to improve revenues by preventing quality related losses. Initiatives include improved communication among business functions, clear definitions of roles and responsibilities in the project organization, and streamlining of key project-related processes and project risk assessments.

PGS implemented its dividend policy in 2011. For 2013, the Board of Directors proposes a dividend of NOK 2.30 per share, up 39 percent from 2012. PGS' dividend policy, whereby it is the intention to distribute between 25 to 50 percent of net income over the business cycle, is a testament to the Company's industrial approach to the business and its commitment to deliver cash returns to shareholders.

# Strategy Review

PGS' strategic ambitions are anchored in five core pledges: To care, To deliver productivity leadership, To develop superior data quality, To innovate, and To perform over the cycle.

PGS has a strategic ambition *to care* for employees' health and safety alongside caring for the environment and society at large. Leadership in HSEQ is one of PGS' core values. To further improve HSEQ performance and reinforce HSEQ management systems, PGS set three main goals for 2013 that were largely achieved:

- Maintain a low incidence of recordable injuries, in particular Lost Time Injuries
- Strengthen risk management and reduce overall risk exposure
- Continue to improve employee HSE awareness and performance.

The "Q" is in focus via implementation of the Quality Improvement Program. The Company aims to be best-in-class, and believes in zero injury to people and limited harm to the environment. HSEQ leadership requires continuous improvement through identifying,



assessing, mitigating, and managing risk affecting PGS employees, contractors, and the environment. Leadership in HSEQ also contributes to the pledge to Care for Customers' Success.

Productivity leadership is served first and foremost by PGS' fleet of Ramform vessels. Given the trend towards larger surveys and shorter cycle times between award of a license and the required drilling of the first well, efficiency and reliability are important performance criteria differentiating PGS from its competition. PGS has a new build program of four Ramform Titan-class vessels. The first vessel, the Ramform Titan was delivered in April 2013. The Ramform Atlas entered the market in early 2014, while the two last vessels are scheduled for delivery in 2015. Although PGS already has the most productive fleet in the industry, the Company's competitive advantage will be further enhanced when all Ramform Titan-class vessels have been delivered. GeoStreamer increasingly contributes to PGS productivity. With all but one vessel equipped with GeoStreamer, the Company is positioned to get full benefit out of the deeper tows enabled by GeoStreamer. Full GeoStreamer deployment will be achieved in 2016.

When adding capacity, PGS takes a long term view and invests through the cycle, backed by a solid balance sheet. The Company will only add capacity when differentiation can be achieved and, of course, it can see the prospect of a satisfactory ROCE (return on capital employed). The Company is of the opinion that it has a fleet fit to serve the ultra-high-end segment of the market, which will be ever more the case after delivery of the additional Ramform Titan-class vessels in 2015. In the absence of capital expenditures for vessel new builds, the free cash flow potential of the Company will be significant and the Board intends to focus on further increasing ROCE and dividend capacity. Maintaining critical mass is important for PGS; however, market share growth alone is not a Company objective.

Oil companies are ultimately seeking *superior data quality*. The ability to deliver an ever clearer, more informative seismic image requires successful product *innovation*. PGS introduced GeoStreamer in 2007 and was first to offer a dual-sensor streamer, despite industry efforts over many years to develop a dual-sensor streamer. PGS claims with pride that GeoStreamer has been the greatest game-changer in the seismic industry since the launch of 3D seismic in the early 1970s, and that it is the best example of PGS' technology differentiation. To further advance the GeoStreamer technology platform, the Company has developed a number of spin-off products and technologies, such as GeoSource™ and SWIM. Imaging technologies derived from GeoStreamer, such as SWIM, have emerged as a competitive advantage for PGS in 2013. The Company expects these technologies to become an ever more important market differentiator going forward.

Regarding operational *innovation*, PGS was the first company to deploy vessels capable of towing more than 20 streamers. The Company delivers unique reservoir-focused solutions based on the

high-performance GeoStreamer technology platform. There is a good technology pipeline with further profit potential which the Company intends to capitalize on; Towed EM and the OptoSeis fiber optic permanent monitoring technology being the most attractive candidates in the medium term. The Company progressed well on this ambition in 2013, with the first full-scale simultaneous acquisition of Towed EM and 2D GeoStreamer seismic. On the Jubarte Permanent Reservoir Monitoring ("PRM") project for Petrobras (offshore Brazil), where PGS installed the subsea system in 2012, the Company completed both the first baseline survey and the first monitoring survey in 2013

The seismic market is characterized by short order books which expose seismic companies to earnings fluctuations. PGS aims to *perform over the cycle* and mitigate its exposure to industry cyclicality by maintaining a strong balance sheet, taking a proactive approach to capacity and capital allocation between MultiClient and contract work, maintaining cost and capital discipline, and focusing on productivity, quality improvement, and technology differentiation. The Company progressed in all of these areas in 2013.

#### Markets and Main Businesses

PGS is one of the three largest participants in the global marine 3D seismic market, with a market share of approximately 20 percent.

2013 ended up being a challenging year for the seismic industry with slower market growth and weaker than expected earnings development. This was especially true for the second half of the year. An increasing focus on cost and cash flow among customers adversely impacted their seismic spending. In this context, it is important to note that spending did not decline for exploration and development among oil companies; rather, the growth rate slowed compared to previous years.

The cautious approach to spending among oil companies affected the aggregate square kilometers of seismic acquired in 2013; the figure remained roughly unchanged from 2012. The average annual growth rate over the past eight years has been approximately 11 percent.

Well-established seismic companies have recently responded by decommissioning some capacity. These efforts trimmed capacity by approximately three percent in 2013, measured in terms of number of streamers. PGS sees further potential for decommissioning of vessels, as the industry is still operating with a significant amount of old and ineffective capacity.

Historically, a weaker seismic market has been driven by macro events that cause oil prices to decline. During 2013, oil prices on average remained well above \$100 per barrel and there were no macro events adversely impacting overall financial markets. On the contrary, most of the world's financial equity indices rose in 2013.



Brazil has traditionally been an anchor market for seismic activity. The large discoveries made there several years ago led the government to halt licensing rounds to allow time for Brazilian authorities to determine how best to manage their natural resources. Activity in Brazil is expected to pick up in the wake of the 11th and 12th licensing round carried out in 2013. In the Gulf of Mexico activity also showed positive signs in 2013 after the region had been on hold for a number of years following the Macondo incident in 2010.

Going into the fourth quarter of 2013, the industry suffered from below-normal order book combined with a seasonally weaker winter market. PGS was able to build its order book as early as the third quarter, thereby making good progress on the transition into the 2014 summer season. Order book growth continued in the fourth quarter, but at the cost of lower rates for work scheduled for the winter season. By year-end 2013, the Company had better order book visibility than the industry average. The Company's order book amounted to \$669 million, including \$80 million of committed pre-funding for scheduled MultiClient projects.

Contract seismic work continued to contribute strongly to PGS business activity in 2013, with approximately 52 percent of active 3D vessel time spent on contract work. 48 percent of active 3D vessel time was used for acquisition of new MultiClient surveys with solid pre-funding levels. Pre-funding amounted to 97 percent of capitalized MultiClient cash investments in 2013.

# Technology

High-end imaging technology contributes to imaging revenue growth and has resulted in higher-quality data, shorter cycle times, and better-informed decision-making by customers. PGS' goal is to provide services efficiently and effectively that are recognized as state-of-the-art and to consistently maintain best-in-class MultiClient imaging capabilities.

GeoStreamer, the first-ever dual-sensor streamer and a proprietary PGS technology, represents a game changer in streamer technology and the best proof of PGS' technology differentiation. GeoStreamer delivers enhanced resolution, better depth imaging, and improved operational efficiency.

GeoStreamer is used as an integrated acquisition and imaging solution that enables PGS to deliver unparalleled features that differentiate the Company's product capabilities from industry alternatives.

PGS has invested considerable resources to develop and deliver efficient imaging solutions and technological differentiators to customers. SWIM is the newest addition to PGS processing technologies. SWIM has the potential to both improve data quality and make seismic acquisition more efficient.

While seismic data yields an image of the subsurface geological structure, electromagnetic ("EM") data can provide information about the fluid content of reservoirs. PGS is bringing to the market a Towed EM streamer system. The benefits of towed EM acquisition are many, and customers have shown good interest in the technology. First and foremost, efficiency is significantly improved, compared to existing EM acquisition technologies.

#### **Financial Results**

Total revenues in 2013 were \$1,501.6 million, compared to \$1,518.3 million in 2012, a decrease of one percent, mainly due to lower Multi-Client pre-funding revenues.

Revenues from Marine Contract seismic acquisition increased by \$54.0 million, or nine percent, to \$677.5 million in 2013 primarily as a result of higher prices on contract services compared to 2012. The increase comes despite less 3D vessel capacity allocated to contract work. The contract EBIT margin for the full-year 2013 was 29 percent, compared to 16 percent in 2012. The margin improvement came in a generally stronger marine seismic market, particularly in the early part of 2013, but was also made possible by cost reductions and improved profitability of the Company's increasingly GeoStreamer focused services.

Total MultiClient revenues (pre-funding and late sales combined) decreased by \$56.3 million, or eight percent, to \$671.8 million in 2013, caused by lower pre-funding revenues. The lower pre-funding revenues are mainly due to the lower weight of surveys covering held acreage. The project mix of MultiClient surveys will vary from year to year depending on the opportunities arising. Late sales in 2013 were record high at \$311.3 million, up \$44.5 million, or 17 percent from 2012.

Cash investment in the MultiClient library increased by \$75.6 million, or 25 percent, to \$373.0 million in 2013. Pre-funding as a percentage of capitalized cash investment was 97 percent in 2013, compared to 155 percent in 2012. The decrease in pre-funding level was primarily driven by the same factors mentioned above describing the lower pre-funding revenues. A more cautious spending pattern among oil companies and increased competition for pre-funding commitment to MultiClient projects, as experienced in 2013, also contributed to the reduced pre-funding level. In 2013, the fleet allocation ratio (active 3D vessel time for Marine Contract vs. MultiClient data acquisition) was approximately 52:48, compared to 57:43 in 2012.

Operating costs, which include cost of sales, expensed research and development costs, and selling, general and administrative costs, totaled \$672.7 million in 2013, compared to \$742.1 million in 2012, a decrease of \$69.4 million, or nine percent. The decrease primarily reflects more costs capitalized to the MultiClient library and less activities in high cost regions. Further, cost inflation has been moderate and the cost impact of 2014 capacity growth has been mitigated



by the improved cost position achieved by the Company's 2012 Profit Improvement Program.

Full year 2013 research and development costs decreased by \$1.2 million, or 2 percent, to \$54.7 million. The decrease is primarily driven by field trial activity returning to a more normal level, while overall resource levels remain roughly the same. Capitalized development costs totaled \$16.0 million in 2013, compared to \$17.6 million in 2012.

Net depreciation and amortization for 2014 amounted to \$432.5 million, compared to \$484.3 million in 2012, down \$51.8 million or 11 percent.

Gross depreciation increased by \$21.3 million, to \$243.9 million in 2013, driven by entry of the *Ramform Titan* into the fleet, vessel upgrades and continued GeoStreamer investments. Depreciation capitalized increased by \$30.2 million in 2013 mainly as a result of more fleet capacity allocated to 3D MultiClient surveys, causing reported net depreciation cost to decline by \$8.9 million in 2013, compared to 2012.

MultiClient amortization for 2013 decreased by \$42.9 million, or 12 percent, to \$301.8 million, compared to 2012. MultiClient amortization as a percentage of total MultiClient revenues was 45 percent in 2013, which is down from 47 percent recorded in 2012. The net book value of the MultiClient library was \$576.9 million as of December 31, 2013, compared to \$382.3 million as of December 31, 2012.

In the fourth quarter of 2013 the Company recorded an impairment of \$15 million related to the stacked source vessel *Polar Sea*.

Operating profit in 2013 was \$382.1 million. The corresponding 2012 operating profit was \$293.8 million.

Gross interest expense increased by \$6.2 million, or 12 percent, to \$57.6 million in 2013, compared to 2012. Higher capitalized interest related to construction in progress and to the MultiClient library more than offset the increase of gross interest expense, causing net interest expense to be \$32.3 million in 2013, compared to \$37.8 million in 2012.

Other financial expense, net of \$21.9 million in 2013 compared to \$27.5 million in 2012 is mainly attributable to loss from associated companies related to investments in PGS Khazar LLC and Azimuth Ltd. and a currency loss. The currency loss amounted to \$7.6 million in 2013 compared to a loss of \$7.3 million in 2012. The Company holds foreign currency positions to balance its operational currency exposure.

Income tax expense was \$89.6 million in 2013, compared to \$42.9 million in 2012. Current tax expense for the full year was \$32.2 million, compared to \$43.9 million in 2012. Current tax expense relates primarily to foreign taxes or income taxes in countries in which PGS

have no carry forward losses or where there are limitations on the application of such losses. Deferred tax expense for the full year 2013 was \$57.4 million compared to a benefit of \$1.0 million in 2012.

With multinational operations, PGS is subject to taxation in many jurisdictions around the world with increasingly complex tax laws. PGS has identified issues in several jurisdictions that could eventually make the Company liable to pay tax claims relating to prior years in excess of the liability recognized in financial statements. Reference is made to Note 9 of the 2013 financial statements for a description of significant tax contingencies.

Net income to equity holders of PGS ASA was \$238.3 million in 2013, compared to \$185.5 million in 2012.

# Cash Flow, Financial Position and Financing

Net cash provided by operating activities totaled \$775.3 million in 2013, compared to \$752.9 million in 2012. The increase is largely attributable to higher EBITDA.

Cash and cash equivalents totaled \$263.8 million as of December 31, 2013, compared to \$390.3 million as of December 31, 2012.

In the third quarter of 2013, PGS increased its revolving credit facility from \$350 million to \$500 million and extended the maturity from 2015 to 2018. The facility is undrawn and further strengthened the Company's solid liquidity reserve at improved terms.

PGS interest-bearing debt comprises the following primary components:

	December :		
(In USD million)	2013	2012	
Secured:			
Term loan B, due 2015	470.5	470.5	
USD 450 million Senior Notes, due 2018	450.0	450.0	
Japanese export credit financing	119.8		
Total	1,040.3	920.5	

Net interest-bearing debt (interest-bearing debt less cash and cash equivalents, restricted cash, and interest-bearing investments) was \$666.7 million as of December 31, 2013, compared to \$435.6 million as of December 31, 2012.

With the successful completion in March 2014 of both the refinancing of the Term Loan B and the Japanese export credit financing for the two last Ramform Titan-class vessels, the average time to maturity for our debt and drawing facilities has increased to almost six years.

# Investments

In 2013, total MultiClient cash investments, excluding capitalized interest, amounted to \$373.0 million, compared to \$297.4 million in



2012, an increase of \$75.6 million. The increase is primarily due to more vessel capacity allocated to MultiClient in 2013 than in 2012.

Capital expenditures totaled \$437.8 million in 2013, compared to \$368.1 million in 2012, an increase of \$69.7 million or 19 percent. The increase is largely attributable to higher capital expenditures related to vessel new builds (\$258.5 million in 2013).

# **Financial Market Risk**

PGS is exposed to certain market risks, including adverse changes in interest rates and foreign currency exchange rates, as discussed below.

#### Interest Rate Risk

The Company enters into financial instruments, such as interest rate swaps, to manage the impact of interest rate fluctuations.

As of December 31, 2013, the debt structure of the Company included \$527.8 million in floating interest rate debt, with interest based on one and six month LIBOR rates, plus a margin. Fixed-interest-rate debt amounted to \$512.5 million. To reduce the adverse effects of any interest rate increases, the Company has a portfolio of interest rate swaps ("IRS") with a total nominal value of \$300.0 million. The fair value of the IRS portfolio was minus \$8.3 million as of December 31, 2013. The swaps are for periods of ½ to 1 ¼ years. Taking into account the effect of interest rate swaps, for every (hypothetical) one percentage point increase in LIBOR, the annual net interest expense of the Company's net debt, including finance leases, would decrease by approximately \$2.5 million, given PGS cash holdings as of December 31, 2013.

# Currency exchange risk

PGS conducts business primarily in US dollars ("\$" or "USD"), but also in several other currencies, including British pounds ("GBP"), Norwegian kroner ("NOK"), Brazilian real ("BRL"), euro ("EUR"), and Singapore dollars ("SGD"). PGS is subject to foreign currency exchange rate risk on cash flows related to sales, expenses, financing, and investment transactions in currencies other than the US dollar.

The Company predominantly sells its products and services in US dollars, and to a limited extent in other currencies. In addition to USD, a significant proportion of PGS' operating expenses are incurred in GBP and NOK. Less substantial amounts are incurred in Singapore dollars and various other currencies. Thus, regarding expenses and revenues in currencies other than US dollars, such expenses will typically exceed revenues.

A stronger US dollar reduces PGS' operating expenses as reported in US dollars. It is estimated that a 10 percent change of the US dollar against the two most significant non-USD currencies, NOK and GBP, would have an annual impact on operating profit of \$26-27 million, and \$10-12 million, respectively, before currency hedging.

PGS hedges part of its foreign currency exposure related to operating income and expenses by entering into forward currency exchange contracts. While the Company enters into these contracts with the purpose of reducing its exposure to exchange rate fluctuations, the contracts are not treated as hedges unless they are specifically designated as hedges of firm commitments or certain cash flows. Consequently, these forward currency exchange contracts are recorded at estimated fair value with gains and losses included in the line Currency exchange gain (loss) in the consolidated statement of operations.

As of December 31, 2013, PGS had net open forward contracts to buy/ sell GBP, NOK and BRL. The total nominal amount of these contracts was approximately \$188.2 million, compared to \$153.6 million as of December 31, 2012. Of the total notional amounts of forward exchange contracts, \$51.4 million was accounted for as fair value hedges as of December 31, 2013 and \$19.2 million was accounted for as fair value hedges as of December 31, 2012. There were no designated foreign currency cash flow hedges in 2013 or in 2012. Outstanding contracts at year-end 2013 had a net positive fair value of \$1.0 million, compared to a net negative fair value of \$2.3 million at year-end 2012.

A 10 percent depreciation of the US dollar against all the currencies in which the Company holds derivative contracts would increase the fair value of these contracts by approximately \$9.1 million. The effect on the consolidated statements of operations would have been \$3.6 million.

All interest-bearing debts are denominated in US dollars.

# Credit Risk

PGS' accounts receivable are primarily from multi-national, integrated oil companies and larger-sized independent oil and natural gas companies, including companies that are owned in whole or in part by governments. The Company manages its exposure to credit risk through ongoing credit evaluations of customers. The Board deems the Company's exposure to credit risk as relatively limited due to the nature of the Company's customer base, the long-term relationships, and the low level of losses on accounts receivable incurred over the years.

PGS monitors the counterparty credit risk of its banking partners, including derivatives counterparties and the institutions in which cash is held on deposit.

# Liquidity Risk

As of December 31, 2013, PGS had an unrestricted cash balance of \$263.8 million and a total liquidity reserve, including available unutilized drawing facilities, of \$763.8 million, compared to \$390.3 million and \$740.3 million respectively at year-end 2012. The Company has a structured approach to monitoring credit risks as to financial counterparties.

PGS has a robust debt structure with adequate maturity profile. Financial covenants relating to existing facilities are not unduly



restrictive. However, materially adverse future market developments could require PGS to implement measures to meet financial covenants or refinance debt.

Based on the year-end cash balance, available liquidity resources, and the current structure and terms of the Company's debt, it is the Board's opinion that PGS has adequate funding and liquidity to support its operations and investment programs.

# **Commodity Risk**

Operation of seismic vessels requires substantial fuel purchases. Thus, PGS is exposed to fuel price fluctuations. Based on the Company's fuel consumption in 2013, a 10 percent increase in fuel prices would increase the total fuel costs and operating expenses by approximately \$1.0 million per month. The Company seeks to pass fuel price risk to customers in a majority of contracts.

# Operational and Other Risks

Demand for the Company's products and services depend on the level of spending by oil and gas companies on hydrocarbon-resource exploration, field development, and production. Spending levels are heavily influenced by oil and gas prices and the oil and gas companies' focus areas. In addition to the risk of less demand for PGS' services or for data from the MultiClient data library, the Company is subject to a large number of other risk factors including, but not limited to increased competition, the attractiveness of its technology, changes in governmental regulations affecting the markets, technical downtime, licenses and permits, and operational hazards such as weather conditions.

Contracts for services are occasionally modified by mutual consent and in certain instances may be cancelled by customers on short notice without compensation. Consequently, the order book as of any particular date may not be indicative of actual operating results for any succeeding period.

# Shares, Share Capital, and Dividend

PGS has 217,799,997 shares issued and outstanding, all of which are of the same class and carry equal voting and dividend rights. Each share has a par value of NOK 3.

PGS' ordinary shares are listed on the Oslo Stock Exchange (ticker: PGS) and denominated in Norwegian kroner. The PGS share continues to be traded as an American Depositary Share ("ADS") over the counter in the US (ticker: PGSVY). Quotes are denominated in US dollars and each ADS represents one share.

As of December 31, 2013, the Company held 2,658,671 treasury shares, primarily to be able to satisfy the exercise of options granted under the employee option programs.

The Board of Directors will propose to the 2014 Annual General Meeting ("AGM") that a dividend for the year ended December 31, 2013 of NOK 2.30 per share to be paid. PGS has a dividend policy which aims to distribute 25 to 50 percent of net income as dividends over the business cycle. Proposals for dividend distributions in future years will be subject to assessments of business performance, operating environment, and growth opportunities to determine the appropriate dividend disbursement in any specific year.

# Health, Safety, Environment and Quality ("HSEQ")

HSEQ management and reporting are key parameters for the evaluation of business performance at all PGS management levels and by the Company's Board of Directors.

PGS' HSEQ performance has improved over the past several years, but 2013 saw an increase in the number of injuries, compared to 2012. Nevertheless, the number of recordable incidents still remained low, and at industry leading levels. The PGS organization (core fleet vessels and PGS offices) had the following health and safety incident levels in 2013:

- Zero fatalities, compared to zero in 2012
- Two Lost Time Injuries, compared to two in 2012
- Five Restricted Work Day Cases, compared to three in 2012
- Five Medical Treatment Cases, compared to three in 2012
- Four High Potential Incidents, compared to one in 2012.

Total Company activity (core fleet vessels and PGS offices) in 2013 comprised 12,745,472 man-hours. Total activity in 2012 amounted to 12,045,876 man-hours.

The overall Lost Time Injury Frequency ("LTIF") decreased to 0.16 per million man-hours in 2013, compared to 0.17 per million man-hours in 2012. The Total Recordable Case Frequency ("TRCF") increased to 0.94 per million man-hours, compared to 0.66 per million man-hours in 2012. The number of total recordable incidents increased from eight in 2012 to 12 in 2013.

The Company's risk management system was further developed in 2013 to ensure that all hazards associated with activities are identified, risks assessed, and appropriate mitigation measures determined. PGS implemented measures that strengthen processes and systems for risk and change management, and intensified the Company-wide focus on carrying out formal and informal risk assessments offshore and onshore.

HSEQ engagement continued to be a top PGS priority in 2013 and Company employees have been encouraged to assume greater ownership and responsibility for HSEQ matters. PGS promotes an organization-wide culture of HSEQ ownership so as to ensure that each department fulfills its responsibility for correct management and implementation of HSEQ practices.



# Organization

PGS had an average of 2,245, 2,227 and 2,149 regular active employees in the years ended December 31, 2013, 2012 and 2011 respectively.

As of December 31, 2013, PGS employees represented 71 nationalities; 31 percent of the office based employees are women (five percent of offshore employees are women). Among staff working in Norway, 37 percent are women. The Board of Directors has five male and four female directors.

At the headquarters in Oslo, 26 percent of management positions are held by women. Six percent of women and one percent of men working for the Norwegian organization of PGS work part-time.

PGS consciously strives to improve the nationality and gender diversity of staff. Long-standing practices include ensuring that offshore crews are culturally diverse and balanced, and that cultural sensitivity training is offered at all levels of the organization.

The average monthly salary of active regular employees as of December 2013 was \$8,277 (\$6,090 for female employees and \$8,483 for male employees) based on January 31, 2014 exchange rates.

PGS headquarter is located at Oslo, Norway. The Company also has offices in other cities in Norway, and in 20 other countries: Angola, Australia, Brazil, China, Egypt, India, Indonesia, Japan, Kazakhstan, Malaysia, Mexico, the Netherlands, Nigeria, Russia, Singapore, Sweden, Turkmenistan, United Kingdom, United States of America, and Vietnam.

# **Board of Directors and Corporate Governance**

The Board of Directors was, in November, expanded and strengthened by the additions of Walter Qvam, CEO of the Kongsberg Group, and Anne Grethe Dalane, currently Business Process Owner, Sales at Yara.

The Board of Directors has the following members: Francis Gugen (Chairperson), Harald Norvik (Vice Chairperson), Holly Van Deursen, Annette Malm Justad, Daniel J. Piette, Carol Bell, Ingar Skaug, Walter Qvam, and Anne Grethe Dalane.

The Board has established two sub-committees: an Audit Committee, comprising Harald Norvik (Chairperson), Carol Bell, Daniel J. Piette, and Anne Grethe Dalane, and the Remuneration and Corporate Governance Committee, consisting of Holly Van Deursen (Chairperson), Annette Malm Justad, Ingar Skaug, and Walter Qvam. The committees act as preparatory bodies for the Board of Directors and assist the Directors in exercising their responsibilities.

PGS also has a Nomination Committee, elected by the shareholders, consisting of Roger O'Neil (Chairperson), Hanne Harlem, and C. Maury Devine.

PGS' corporate governance principles are adopted by the Board of Directors. The Board periodically reviews these principles. Statements of the corporate governance structure are described in more detail in the corporate governance section of this annual report. The Company's Articles of association, in addition to full versions of the rules of procedures for the Board of Directors, the Audit Committee charter, the Remuneration and Corporate Governance Committee charter, the Nomination Committee charter, and PGS' Code of Conduct are available on the Company's website www.pgs.com (follow the links: About us > Commitments > Corporate Governance).

Since 2004, PGS has maintained a compliance hotline operated by an external service provider in order to facilitate reporting of any concerns regarding inappropriate business conduct. The Company encourages use of the hotline by anyone who has concerns relating to compliance with laws and regulations, breaches of the code of conduct, fair treatment, or any other matter. Concerns can also be raised directly with the General Counsel or any Board member.

When PGS published the 2013 annual report the Company also made available a corporate responsibility report. The Company's corporate responsibility is organized around four key areas — People, Environment, Conduct, and Stakeholders.

# Outlook

PGS entered 2014 with good visibility, and a majority of its capacity has already been booked.

The first quarter of 2014 will be challenging, while market conditions for the second and third quarters of 2014 appear healthy, driven by good activity levels in the North Atlantic region. All in all, the Company expects a modest growth in demand in 2014. The average PGS streamer capacity will continue to increase in 2014, contributing to the Company's earnings capacity. Based on experience with the new *Ramform Titan* delivered in 2013, the Company is confident that the new capacity will be very accretive to Company earnings.

PGS has made significant investments in MultiClient, and the Company was pleased to see record late sales in 2013. Going forward, PGS also aims at capitalizing on MultiClient investments made in 2013, when investment levels were at a record high.

The long-term prospects for the seismic industry are good. Energy companies continue their search for new hydrocarbon resources in regions featuring deeper waters, harsher environments, extreme reservoir depths, and complex geologies. PGS' capabilities and solid position in the high-end market segment makes the Company an attractive contractor for oil companies worldwide.

PGS capabilities and capacity will increase further as the two last Ramform Titan-class vessels enter the fleet in 2015. The vessels fea-



ture the design strengths demonstrated by today's Ramform fleet along with capability enhancements across a series of key technologies. PGS is well positioned to differentiate itself from peers going forward. The Company's services are competitive, it offers leading-edge technologies, and its balance sheet is robust.

The Board emphasizes that forward looking statements contained in this report are based on various assumptions made by management, depend on factors beyond its control, and are subject to certain risks and uncertainties. Accordingly, actual results may differ materially from those contained in forward looking statements.

Pursuant to section 3-3a of the Norwegian Accounting Act, the Board confirms that the 2013 financial statements have been prepared based on the assumption of a going concern and that it believes that this assumption is appropriate.

# **Events After the end of the Reporting Period**

Subsequent to December 31, 2013, PGS took delivery of the second vessel in the Ramform Titan-class, the Ramform Atlas in late January 2014.

In March 2014 the Term Loan B was resized from \$470.5 million to \$400.0 million and the maturity extended to March 2021.

The Company also signed agreements for \$305.0 million export credit financing relating to the two Ramform Titan-class new builds to be delivered in 2015.

# Allocation of the Parent Company's Gain for 2013

The financial statements of the parent company, Petroleum Geo-Services ASA ("PGS ASA"), are prepared and presented in accordance with generally accepted accounting principles in Norway ("N GAAP"). PGS ASA reported a net income of NOK 702.2 million for 2013, compared to a net income of NOK 915.0 million in 2012. PGS ASA is a holding company with no material operating activities. The positive net income for 2013 is primarily caused by dividends from subsidiaries.

Of the total 2013 net income of NOK 702,246,000 the Board proposes to allocate NOK 207,421,000 to other equity and NOK 494,825,000 as dividend to shareholders. Total shareholders' equity in PGS ASA as of December 31, 2013 was NOK 11,021,711,000, corresponding to 52 percent of total assets. Other equity as of December 31, 2013 was NOK 7.989.607.000.

London, March 19, 2014 Board of Directors Petroleum Geo-Services ASA

Francis Gugen Chairperson

Anne Grethe Dalane

Harald Norvik Vice Chairperson

Annette Malm Justad

Walter Qvam

Holly Van Deursen

Jon Erik Reinhardsen Chief Executive Officer



# RESPONSIBILITY **STATEMENT**

Today, the Board of Directors and the Chief Executive Officer reviewed and approved the Board of Directors' report and the consolidated and separate annual financial statements for PGS ASA, for the year ending and as of December 31, 2013.

PGS ASA's consolidated financial statements have been prepared and presented in accordance with IFRSs and IFRICs as adopted by the EU and additional disclosure requirements in the Norwegian Accounting Act, and that should be used as of December 31, 2013. The separate financial statements for PGS ASA have been prepared in accordance with the Norwegian Accounting Act and Norwegian accounting standards as of December 31, 2013. The Board of Directors report for the group and the parent company is in accordance with the requirements of the Norwegian Accounting Act and Norwegian accounting standard 16, as of December 31, 2013.

# To the best of our knowledge:

- The consolidated and separate annual financial statements for 2013 have been prepared in accordance with applicable accounting standards.
- The consolidated and separate annual financial statements give a true and fair view of the assets, liabilities, financial position, and result of operations as a whole as of December 31, 2013, for the group and the parent company.
- The Board of Directors' report for the group and the parent company include a true and fair review of:
  - The development and performance of the business and the position of the group and the parent company.
  - The principal risks and uncertainties the group and the parent company face.

London, March 19, 2014 Board of Directors Petroleum Geo-Services ASA

Francis Gugen Chairperson

Anne Grethe Dalane

Harald Norvik Vice Chairperson

Annette Malm Justad

Ingar Skaug

Daniel J. Piette

Walter Qvam

Holly Van Deursen

Jon Erik Reinhardsen Chief Executive Officer

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# **CONSOLIDATED STATEMENTS OF OPERATIONS**

	_	Year end	ed December 3	1,
(In millions of US dollars)	Note	2013	2012	2011
Revenues	5	1,501.6	1,518.3	1,253.3
Cost of sales	4	570.9	642.4	643.4
Research and development costs		38.7	38.3	24.3
Selling, general and administrative costs		63.1	61.4	50.8
Depreciation and amortization	6	432.5	484.3	397.9
Impairment (reversal) of long-term assets	6	15.0	(8.0)	2.6
Other operating (income) expense		(0.7)	(1.1)	(4.4)
Total operating expenses		1,119.5	1,224.5	1,114.6
Operating profit	5	382.1	293.8	138.7
Interest expense	7	(32.3)	(37.8)	(42.2)
Other financial expense, net	8	(21.9)	(27.5)	(33.4)
Income before income tax expense		327.9	228.5	63.1
Income tax expense	9	89.6	42.9	30.0
Income from continuing operations		238.3	185.5	33.1
Income from discontinued operations, net of tax		-	-	0.6
Net income to equity holders of PGS ASA		238.3	185.5	33.7
Earnings per share, to ordinary equity holders of PGS ASA:	10			
- Basic		\$1.11	\$0.86	\$0.16
- Diluted		\$1.10	\$0.85	\$0.15
Earnings per share from continuing operations,				
to ordinary equity holders of PGS ASA:	10			
- Basic		\$1.11	\$0.86	\$0.15
- Diluted		\$1.10	\$0.85	\$0.15

# CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

		Year	per 31,	
(In millions of US dollars)	Note	2013	2012	2011
			Restated <sup>(1)</sup>	Restated <sup>(1)</sup>
Net income		238.3	185.5	33.7
Other comprehensive income				
Actuarial gains (losses) on defined benefit pension plans	24, 30	(12.2)	25.4	(28.8)
Income tax effect on actuarial gains and losses	9	2.5	(7.0)	7.2
Items that will not be reclassified to statements of operations		(9.7)	18.4	(21.6)
Revaluation of cash flow hedges				
Gains (losses) arising during the period		0.1	(5.0)	(12.1)
Reclassification adjustments for losses included in the statements of operations		8.8	12.5	14.7
Deferred tax on cash flow hedges	9	(2.6)	(2.1)	(0.7)
Revaluation of shares available-for-sale				
Gains (losses) arising during the period		(0.6)	1.0	(11.4)
Reclassification adjustments for losses (gains) included in the statements of operations		1.4	(0.9)	(1.4)
Other comprehensive income (loss) from joint venture and associated companies		0.6	(1.3)	0.2
Translation adjustments and other		(0.1)	0.1	1.3
Items that may be subsequently reclassified to statements of operations		7.6	4.3	(9.4)
Other comprehensive income (loss), net of tax	ive income (loss), net of tax (2.1) 22.7		22.7	(31.0)
Total comprehensive income to equity holders of PGS ASA		236.2	208.2	2.7

 $<sup>^{\</sup>mbox{\scriptsize (1)}}$  The financial information is restated from retrospectively adopting IAS19R, see note 30.

# PETROLEUM GEO-SERVICES

# **CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY**

	Attributable to equity holders of PGS ASA							
(In millions of US dollars)	Paid in capital	Treasury shares	Additional paid-in capital	Accumulated earnings	Other comprehensive income	Total	Non- controlling interests	Share- holders' equity
Balance as of December 31, 2011	96.5	(0.6)	508.2	1,187.7	(20.3)	1,771.5	0.2	1,771.7
Effect of retrospectively adopting IAS 19R (1)	_	-	-	-	(28.7)	(28.7)	_	(28.7)
Balance as of January 1, 2012	96.5	(0.6)	508.2	1,187.7	(49.0)	1,742.8	0.2	1,743.0
Total comprehensive income	-	-	-	185.5	22.7	208.2	-	208.2
Dividend paid (2)	-	-	-	(41.5)	-	(41.5)	(0.2)	(41.7)
Acquired treasury shares	-	(0.4)	-	(10.9)	-	(11.3)	-	(11.3)
Transferred shares, conversion of convertible								
notes	-	-	-	1.1	-	1.1	-	1.1
Employee benefit plans	-	0.5	5.1	6.6	-	12.2	-	12.2
Balance as of December 31, 2012	96.5	(0.5)	513.3	1,328.5	(26.3)	1,911.5	-	1,911.5
Total comprehensive income	-	-	-	238.3	(2.1)	236.2	-	236.2
Dividend paid (3)	-	-	-	(60.7)	-	(60.7)	-	(60.7)
Acquired treasury shares	-	(1.0)	-	(28.2)	-	(29.2)	-	(29.2)
Employee benefit plans	-	0.1	6.2	1.5	-	7.8	-	7.8
Balance as of December 31, 2013	96.5	(1.4)	519.5	1,479.4	(28.4)	2,065.6	-	2,065.6

<sup>(1)</sup> The financial information is restated from retrospectively adopting IAS19R, see note 30.

<sup>(2)</sup> NOK 1.10 per share was paid as ordinary dividend for 2011.

<sup>(3)</sup> NOK 1.65 per share was paid as ordinary dividend for 2012.

# **CONSOLIDATED STATEMENTS OF FINANCIAL POSITION**

		Dece	ember 31,
(In millions of US dollars)	Note	2013	2012
ASSETS			Restated <sup>(1)</sup>
Current assets			
Cash and cash equivalents	20	263.8	390.3
Restricted cash	11	14.6	6.5
Accounts receivable	20	177.1	176.3
Accrued revenues and other receivables	12	183.3	153.6
Other current assets	13	124.5	110.1
Total current assets		763.3	836.8
Long-term assets			
Property and equipment	14	1,629.5	1,437.7
MultiClient library	15	576.9	382.3
Restricted cash	11	74.8	85.8
Deferred tax assets	9	110.0	169.9
Other long-term assets	16	85.0	80.4
Goodwill	17	139.9	139.9
Other intangible assets	18	164.9	142.8
Total long-term assets		2,781.0	2,438.8
Total assets		3,544.3	3,275.6
LIABILITIES AND SHAREHOLDERS' EQUITY			
Current liabilities			
Short-term debt and current portion of long-term debt	19, 20	10.8	1.0
Accounts payable	20	66.0	61.0
Accrued expenses	22	279.4	275.6
Income taxes payable	9	34.3	31.3
Total current liabilities		390.5	368.9
Long-term liabilities			
Long-term debt	19, 20	1,019.6	915.8
Deferred tax liabilities	9	6.2	8.5
Other long-term liabilities	23	62.4	70.9
Total long-term liabilities		1,088.2	995.2
Shareholders' equity			
Common stock; par value NOK 3; issued and outstanding 217,799,997 shares	25	96.5	96.5
Treasury shares, par value	25	(1.4)	(0.5)
Additional paid-in capital		519.5	513.3
Total paid-in capital		614.6	609.3
Accumulated earnings		1,479.4	1,328.5
Other comprehensive income		(28.4)	(26.3)
Total shareholders' equity		2,065.6	1,911.5
Total liabilities and shareholders' equity		3,544.3	3,275.6

<sup>(1)</sup> The financial information is restated from retrospectively adopting IAS19R, see note 30.

London, March 19, 2014

Board of Directors, Petroleum Geo-Services ASA

Francis Gugen

Chairperson

Anne Grethe Dalane

Harald Norvik

Vice Chairperson

Aury Baleur Awater Halm Justan Annette Malm Justad

Carol Bell

Ingar Skaug

Raif J. Piette Holly Van Deursen

Walter Qvam Jon Erik Reinhardsen Chief Executive Officer

# **CONSOLIDATED STATEMENTS OF CASH FLOWS**

	Year ended December		nber 31,
(In millions of US dollars)	2013	2012	2011
Cash flows provided by operating activities:			
Net income to equity holders of PGS ASA	238.3	185.5	33.7
Adjustments to reconcile net income to net cash provided by operating activities:			
Depreciation, amortization and impairment of long-term assets	447.5	483.5	400.5
Share of loss in Joint venture and associated companies	14.3	4.2	12.4
Interest expense	32.3	37.8	42.2
Loss on sale and retirement of assets	8.6	11.2	1.6
Income taxes paid	(33.8)	(28.5)	(20.2)
Other items	3.5	7.3	5.7
(Increase) decrease in accounts receivable, accrued revenues and other receivables	(30.7)	(2.9)	39.4
Increase (decrease) in accounts payable	17.0	(8.0)	(24.4)
Change in other short-term items related to operating activities	34.7	57.0	(4.5)
Change in other long-term items related to operating activities	43.6	5.8	(6.0)
Net cash provided by operating activities	775.3	752.9	480.4
Cash flows used in investing activities:			
Investment in MultiClient library	(373.0)	(297.4)	(203.9)
Investment in property and equipment	(438.5)	(358.5)	(299.1)
Investment in other intangible assets	(29.2)	(28.0)	(20.0)
Investment in other current- and long-term assets	(22.0)	(0.1)	(28.7)
Proceeds from sale of other current- and long-term assets	2.6	31.4	13.1
(Increase) decrease in long-term restricted cash	(0.6)	(5.4)	(33.3)
Net cash used in investing activities	(860.7)	(658.0)	(571.9)
Cash flows (used in) provided by financing activities:			
Proceeds, net of deferred loan cost, from issuance of long-term debt	114.6	156.3	288.0
Repayment of long-term debt	(11.9)	(190.6)	(156.0)
Purchase of treasury shares	(29.2)	(11.3)	(17.4)
Proceeds from sale of treasury shares	1.6	7.1	4.2
Dividend paid	(60.9)	(41.7)	(1.2)
Interest paid	(55.3)	(49.1)	(33.9)
Net cash (used in) provided by financing activities	(41.1)	(129.3)	83.7
Net decrease in cash and cash equivalents	(126.5)	(34.4)	(7.9)
Cash and cash equivalents as of January 1	390.3	424.7	432.6
Cash and cash equivalents as of December 31	263.8	390.3	424.7



# Note 1 – General information about the Company and Basis of Presentation

# **General information**

Petroleum Geo-Services ASA ("PGS ASA") is a public limited liability company established under the laws of the Kingdom of Norway in 1991. Unless stated otherwise, references herein to the "Company" and "PGS" refer to Petroleum Geo-Services ASA and its subsidiaries.

PGS is a technologically focused oilfield service company principally involved in providing geophysical services worldwide. PGS provides a broad range of seismic and reservoir services, including acquisition, imaging, interpretation and field evaluation. The Company's headquarters are at Lilleaker, Norway.

#### Basis of presentation

The Company prepares its consolidated financial statements in accordance with International Financial Reporting Standards ("IFRS") as adopted by the European Union ("EU"). IFRS as adopted by the EU differs in certain respects from IFRS as issued by the International Accounting Standards Board ("IASB"). References to IFRS hereafter should be construed as references to IFRS as adopted by the EU. The consolidated financial statements are prepared using the historical cost basis, except for available-for-sale financial assets and derivative financial instruments that have been measured at fair value. The consolidated financial statements are presented in US Dollars ("\$" or "dollars") rounded to the nearest million, unless otherwise indicated.

The consolidated financial statements were authorized for issue by the Board of Directors on March 19, 2014.

# **Note 2 - Summary of Significant Accounting Policies**

# Adoption of new and revised policies and standards and interpretations

Effective January 1, 2013, the Company adopted revised IAS 19 Employee benefits (2011). The main amendments impacting the Company are: (i) removal of the corridor mechanism such that actuarial gains and losses are recognized immediately in other comprehensive income, and (ii) the expected returns on plan assets must equal the discount rate on the projected benefit obligation. The standard is applied retrospectively including periods prior to January 1, 2013. See note 30 for presentation of adjustments made in the restated periods.

Effective January 1, 2013, the Company adopted IFRS 13 Fair value measurement which does not have a significant effect on the financial statements of the Company. Further, the Company adopted the amendments to IAS 1 Presentation of financial statements which changed the presentation of the consolidated statements of comprehensive income to group items that may be subsequently reclassified to statements of operations and those that will not be reclassified.

# Consolidation

# Subsidiaries

Subsidiaries are all entities (including special purpose entities) over which the Company has the power to govern the financial and operating policies generally accompanying a shareholding of a majority of the voting rights. Potential voting rights that are currently exercisable or convertible are considered when assessing whether the Company controls another entity.

# Investments in joint ventures and associated companies

A joint venture is a contractual arrangement whereby the Company under-

takes an economic activity that is subject to joint control and which strategic financial and operating policy decisions relating to the activities require the unanimous consent of the parties sharing control.

An associated company is an entity over which the Company has significant influence and that is neither a subsidiary nor an interest in a joint venture. Significant influence is the power to participate in the financial and operating policy decisions of the investee but is not control or joint control over those policies, generally accompanying a shareholding of between 20% and 50% of the voting rights.

The Company accounts for its investments in jointly controlled entities and associates using the equity method of accounting. Under the equity method, investments are carried in the consolidated statements of financial position at cost as adjusted for post-acquisition changes in the Company's share of the net assets (i.e. profit or loss and equity adjustments), less impairment in the value of individual investments. Losses in excess of the Company's investment (which includes long-term interests that, in substance, form part of the Company's net investment) are not recognized, unless the Company has incurred legal or constructive obligations or made payments on behalf of the investment. Profits and losses resulting from sales of assets between the Company and the investee are deferred to the extent of the interest in the investee, and recognized when the assets are sold to an independent party or otherwise expensed.

The Company periodically reviews its net investments to determine whether there is an indication of impairment. If such indication exists, the recoverable amount of the net investment is estimated in order to determine the extent of the impairment (if any).

# Long term assets held-for-sale

Non-current assets are classified as held-for-sale when their carrying amount will be recovered principally through sale rather than through continuing use. This condition is deemed to exist when the sale is highly probable, the asset is available for immediate sale in its present condition and management is committed to the sale. Such assets, which are typically vessels, are measured at the lower of carrying amount and fair value less costs to sell and are presented separately in the consolidated statements of financial position.

# Cash and cash equivalents and restricted cash

Cash and cash equivalents include demand deposits and all highly liquid financial instruments purchased with original maturities of three months or less. Cash and cash equivalents that are restricted from the Company's use are presented separately in the consolidated statements of financial position and are classified as current or long-term depending on the nature of the restrictions. Such restrictions primarily relate to the Brazilian tax claim deposit (note 11), employee tax withholdings, cash collateral for bid or performance bonds, certain health insurance and restricted deposits under contracts.

# Foreign currency translation and transactions

The financial statements of subsidiaries and associates whose functional currency is not US dollar are translated using the current exchange rate. Assets and liabilities are translated at the rate of exchange in effect at the period end; share par value and paid-in capital are translated at historical exchange rates; and revenues and expenses are translated at the average rate of exchange in effect during the period. Translation adjustments are recorded as a separate component in the consolidated statements of other comprehensive income.

Foreign exchange gains and losses resulting from the settlement of foreign currency transactions and from the translation of realized and unrealized monetary assets and liabilities denominated in foreign currencies are rec-



ognized in the consolidated statements of operations, except when recognized in the consolidated statements of other comprehensive income as

qualifying cash flow hedges.

# Intangible assets

Intangible assets acquired separately are measured on initial recognition at cost. Following initial recognition, intangible assets are carried at cost less accumulated amortization and accumulated impairment. The cost of internally generated intangible assets, other than those specified below, is expensed as incurred.

#### MultiClient library

The MultiClient library consists of seismic data surveys which are licensed to customers on a non-exclusive basis. Costs directly incurred in acquiring, imaging and otherwise completing seismic surveys are capitalized to the MultiClient library. Costs incurred while relocating or "steaming" a vessel or crew from one location to another and borrowing costs incurred during the acquisition and imaging phases of the survey are also capitalized to the MultiClient library.

A project remains in surveys-in-progress until imaging is complete, which may be some months or up to a year after data acquisition ends, at which point it is transferred to finished library.

The Company records the costs incurred on the MultiClient library in a manner consistent with its capital investment and operating decision analysis, which generally results in each component of the MultiClient library being recorded and evaluated separately. The cost of projects within the same political regime, with similar geological traits and that are marketed collectively are recorded and evaluated as a group by year of completion.

The Company amortizes each MultiClient library survey based on the ratio of survey cost to forecast sales. On an annual basis each survey is placed in an amortization category based on this ratio. Effective January 1, 2012, the Company refined its method for calculating amortization expense on the MultiClient library by introducing more amortization categoris or bands in order to more precisely calculate sales amortization expense. In previous years, four categories were applied with amortization rates of 90%, 75%, 60% or 45% of sales. From January 1, 2012, these categories range from 30-95% of sales amounts with 5% intervals, with a minimum of 45% for pre-funding. Each category includes surveys where the remaining unamortized cost as a percentage of remaining forecasted sales is less than or equal to the amortization rate applicable to each category.

An integral component of amortization of the MultiClient library is the minimum amortization policy. The book value of each survey (including groups of surveys) of the MultiClient library is reduced to a specified percentage by year-end, based on the age of the survey in relation to its year of completion. This requirement is applied each year-end regardless of future sales estimates for the survey. The specified percentage generates the maximum permitted book value for each survey as the product of the percentage multiplied by the original capitalized cost of the survey at the respective period end. Any additional or minimum amortization charges required are then determined through a comparison of the remaining book value to the maximum permitted book value allowed for each survey.

The specified percentages used to determine the maximum book value of the MultiClient library surveys are summarized as follows:

	5-year	3-year
Calendar year after project completion	profile	profile
Year O (a)	100%	100%
Year 1	80%	66%
Year 2	60%	33%
Year 3	40%	0%
Year 4	20%	
Year 5	0%	

(a) Represents the year in which the survey is classified as completed.

All surveys, except derivative products, have a 5-year profile starting in the year after project completion. Derivative processed products have a 3-year profile starting in the year after data delivery. Derivative products are mainly reprocessing which creates data that can be licensed separately from the original survey.

The Company classifies, as amortization expense in its consolidated statements of operations, impairment of individual MultiClient surveys that are based on changes in project specific expectations and that are not individually material. The Company expects this additional, non-sales related, amortization expense to occur regularly because each individual survey is evaluated at least annually for impairment or when specific indicators exist. The Company classifies as impairment in its consolidated statements of operations write-downs related to fundamental changes in estimates affecting a larger part of the Company's MultiClient library where the effects are material. See impairment of property, equipment and intangibles below.

# Research and development costs

Research costs are expensed as incurred. An internally generated intangible asset arising from development (or from the development phase of an internal project) is recognized if, all of the following have been demonstrated: technical and commercial feasibility of completing the intangible asset so that it will be available for use or sale; the intention to complete the intangible asset and use or sell it; the ability to use or sell the intangible asset; how the intangible asset will generate probable future economic benefits; the availability of adequate technical, financial and other resources to complete the development and to use or sell the intangible asset; and the ability to measure reliably the expenditure attributable to the intangible asset during its development.

The amount initially recognized for internally generated intangible assets is the sum of the expenditure incurred from the date on which the intangible asset first satisfies the recognition criteria above. All other development costs are expensed as incurred.

Subsequent to initial recognition, internally generated intangible assets are reported at cost less accumulated amortization and accumulated impairment, on the same basis as intangible assets acquired separately. Capitalized development costs are amortized on a straight-line basis over the estimated useful life of the asset.

# Patents, licenses and technology

Patents, licenses and technology are stated at cost less accumulated amortization and accumulated impairment. Amortization is calculated on a straight-line basis over the estimated period of benefit, ranging from one to twenty years.



#### Property and equipment

Property and equipment are stated at cost, excluding the costs of the day-to-day servicing, less accumulated depreciation and impairment. Depreciation is calculated on a straight-line basis over the useful life of the assets based on cost less estimated residual values. The estimated useful lives for property and equipment are as follows:

	Years
Seismic vessels	25 - 30
Seismic and operations equipment, incl. computer	3 - 15
Buildings and related leasehold improvements	1 - 17
Fixture, furniture, fittings and office computers	3 - 5
Major overhauls	3 - 7.5

Subsequent expenditures and major inspections/overhauls are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. The carrying amount of replaced asset components are derecognized. All other repairs and maintenance are charged to the consolidated statements of operations during the period in which they are incurred.

The assets' residual values, useful lives and method of depreciation are reviewed, and adjusted if appropriate, at least at each year-end.

Assets under construction are carried at cost, less accumulated impairment. Cost includes borrowing costs incurred during construction in accordance with the Company's accounting policy as stated below. Depreciation commences when the asset is ready for its intended use.

A component of property and equipment is derecognized upon disposal or when no future economic benefit is expected from its use or disposal. Gains and losses arising on de-recognition of assets (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in the consolidated statements of operations in the year derecognized.

Significant spare parts are capitalized along with the assets to which they relate. Other spare parts, consumables and bunker inventory are classified as other current assets and stated at cost.

# Steaming costs

Steaming costs relate to relocating or "steaming" a vessel and its crew from one location to another. Steaming costs are capitalized or deferred to the extent the probable future economic inflows from the projects to which the vessel will steam are sufficient to recover the cost of the steam. The recoverable steaming cost associated with MultiClient surveys is capitalized as a part of the MultiClient library (see above). The recoverable steaming costs associated with exclusive contract surveys is deferred and charged to the consolidated statements of operations based upon the percentage of completion of the surveys.

# Impairment of property, equipment and intangibles

Tangible and intangible assets are reviewed to determine whether there is any indication of impairment. If such indication exists, or when annual impairment testing for an asset is required, the recoverable amount of the asset is estimated to determine the extent of the impairment, if any. An asset's recoverable amount is the higher of (i) its fair value less cost to sell and (ii) its value in use. This determination is made for an individual asset, unless the asset does not generate cash inflows that are largely independent of those from other assets or groups of assets. In assessing value in use, the estimated future cash flows are discounted to their present value using a rate

that reflects current market assessments of the time value of money and the risks specific to the asset for which the estimates of future cash flows have not been adjusted. If the carrying amount of an asset (or cash generating unit) exceeds its recoverable amount, the carrying amount is reduced to its recoverable amount and the impairment is recognized immediately and presented separately in the consolidated statements of operations.

Goodwill does not generate cash flows independently of other assets or groups of assets and is allocated to the cash-generating units expected to benefit from the synergies of the combination that gave rise to the goodwill.

Where a reasonable and consistent basis of allocation can be identified, corporate assets are also allocated to individual cash-generating units, or otherwise they are allocated to the smallest group of cash-generating units for which a reasonable and consistent allocation basis can be identified.

Goodwill (and the cash-generating unit to which goodwill is allocated) and intangible assets not yet available for use are evaluated for impairment annually, or whenever there is an indication that the asset may be impaired. If the recoverable amount of the cash generating unit is less than the carrying amount of the unit (including goodwill allocation), the impairment goes first to reduce the carrying amount of goodwill and then to reduce the carrying amount of the other assets in the unit pro-rata, based on their relative carrying amounts.

Reversal of an impairment is recognized if the circumstances that gave rise to the impairment no longer exist. The carrying amount of the asset (cash-generating unit) is increased to the revised estimate of its recoverable amount. The increased carrying amount may not exceed the carrying amount that would have existed had no impairment been recognized for the asset (cash-generating unit). The reversal is presented separately in the consolidated statements of operations. Impairment recognized on goodwill is not subject to reversal.

# Derivative financial instruments and hedging

The Company uses derivative financial instruments to reduce its exposure related to fluctuations in foreign currency rates and interest rates. Derivative instruments are recognized in the consolidated statements of financial position at their fair values. Realized and unrealized gains and losses attributable to derivative instruments that do not qualify for hedge accounting are recognized as other financial items, net, as they arise.

In limited circumstances, the company may apply hedge accounting if it meets certain criteria at hedge inception and on an ongoing basis.

The Company accounts for hedges that meet these criteria as follows: Fair value hedges: Fair value hedges are used to hedge currency risk on equipment purchases denominated in currencies other than USD. The change in fair value of the hedging instrument is recognized in the consolidated statements of operations. The change in fair value of the hedged item attributable to the risk hedged is recorded as part of the carrying value of the hedged item and is also recognized in the consolidated statements of operations. When an unrecognized firm commitment is designated as a hedged item, the subsequent cumulative change in fair value of the firm commitment attributable to the hedged risk is recognized as an asset or liability with a corresponding gain or loss recognized in the consolidated statements of operations.

Cash flow hedges: Cash flow hedging is used to hedge interest rate risk. The effective portion of the gain or loss on the hedging instrument is recognized in the consolidated statements of other comprehensive income, while any



ineffective portion is recognized immediately in the consolidated statements of operations. Amounts recorded in the consolidated statements of other comprehensive income are transferred to the consolidated statements of operations when the hedged transaction affects the consolidated statements of operations. If a cash flow hedge is discontinued, any subsequent change in value is recorded directly to the consolidated statement of operations. The fair value of the derivatives at the time is retained in other comprehensive income and amortized as an adjustment to the effective interest rate over the term of highly probable expected cash flows.

#### Revenue recognition

The Company recognizes revenue when (i) persuasive evidence of a sale arrangement exists, (ii) delivery has occurred or services have been rendered, (iii) the sales price is fixed or determinable and collection is reasonably assured. The Company defers the unearned component of payments received from customers for which the revenue recognition requirements have not been met. Consideration is generally allocated among the separate units of accounting based on their estimated relative fair values when elements have stand alone value. If an element of a customer agreement does not have stand alone value, revenue is deferred and recognized over the period services are provided. The Company's revenue recognition policy is described in more detail below.

# Sales of MultiClient library data

Late sales - The Company grants a license to a customer, which entitles the customer to have access to a specifically defined portion of the MultiClient data library. The Company recognizes revenue for late sales on completed surveys when the customer executes a valid license agreement and has received the underlying data or has the right to access the licensed portion of the data, the customer's license payment is fixed and determinable and collection is reasonably assured.

Volume sales agreements – The Company grants licenses to the customer for access to a specified number of blocks of MultiClient library within a defined geographical area. These licenses typically enable the customer to select and access the specific blocks over a period of time. Although the license fee is fixed and determinable in all cases, the payment terms of individual volume sales agreements vary, ranging from payment of the entire fee at the commencement of the agreement, to installment payments over a multi-year period, to payment of the license fee as the specific blocks are selected. Revenue recognition for volume sales agreements is based on a proportion of the total volume sales agreement revenue, measured as the customer executes a license for specific blocks and the customer has received the data or has been granted access to the data and collection is reasonably assured.

Pre-funding arrangements – The Company obtains funding from a limited number of customers before a seismic survey project is completed. In return for the pre-funding, the customer typically gains the ability to direct or influence the project specifications, to access data as it is being acquired and to pay discounted prices. The Company recognizes pre-funding revenue on surveys-in-progress as the services are performed on a proportional performance basis. Progress is measured in a manner generally consistent with the physical progress on the project, and revenue is recognized based on the ratio of the project's progress to date, provided that all other revenue recognition criteria are satisfied.

# Proprietary sales/contract sales

The Company performs seismic services under contract for a specific customer, whereby the seismic data is owned by that customer. The Company recognizes proprietary/contract revenue as the services are performed and

become chargeable to the customer on a proportionate performance basis over the term of each contract. Progress is measured in a manner generally consistent with the physical progress of the project, and revenue is recognized based on the ratio of the project's progress to date, provided that all other revenue recognition criteria are satisfied.

# Other services

Revenue from other services is recognized as the services are performed, provided all other recognition criteria are satisfied.

#### Income taxes

Income tax expense is comprised of the sum of current tax expense (or benefit) plus the change in deferred tax liabilities and assets during the period, except for current and deferred income tax relating to items recognized in the consolidated statements of other comprehensive income, in which case the tax is also recognized in the consolidated statements of other comprehensive income.

Current tax assets and liabilities are measured at the amount expected to be recovered from or paid to the taxation authorities. The tax rates and tax laws used to compute the amount are those that are enacted or substantively enacted by the end of the reporting period.

Deferred tax assets and liabilities are calculated using the liability method for all temporary differences between the carrying amount of assets and liabilities in the consolidated financial statements and for tax purposes, including tax losses carried forward. A deferred tax liability is not recognized on temporary differences arising from the initial recognition of goodwill.

Deferred income tax is recognized on temporary differences arising on investments in subsidiaries, associates and interests in joint ventures, except where the timing of the reversal of the temporary differences can be controlled by the Company and it is probable that the temporary differences will not reverse in the foreseeable future.

The Company recognizes deductions/benefits from uncertain tax positions when it is probable that the tax position will ultimately be sustained.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent it is no longer probable that estimated future taxable profit will be sufficient to recover all or part of the deferred tax asset. Unrecognized deferred tax assets are reassessed at the end of each reporting period and are recognized to the extent it has become probable that estimated future taxable profit is sufficient to recover the deferred tax asset. The probability assessment is based on Management's judgment and estimates of future taxable income, including the estimated effect of tax planning opportunities (see separate note describing accounting estimates below).

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the estimated year of realization or settlement, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period.

Deferred tax assets and deferred tax liabilities are offset, if a legally enforceable right exists to set off current tax assets against current tax liabilities and the deferred taxes are related to the same taxable entity and the same taxation authority. Deferred tax assets and liabilities are classified as long-term in the consolidated statements of financial position.

# **Employee benefits**

# Pension obligations

The Company operates various pension schemes. The schemes are funded through payments to insurance companies or trustee-administered funds. The Company has both defined benefit and defined contribution plans. A defined benefit plan is a pension plan which defines an amount of pension benefit that an employee will receive on retirement, dependent on factors such as age, years of service and compensation.

The liability recognized for defined benefit pension plans is the present value of the defined benefit obligation at the end of the reporting period, adjusted for past service costs and reduced by the fair value of plan assets. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using estimated interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating the terms of the related pension liability.

Past service costs, which is an increase in the present value of the defined benefit obligation for employee services in prior periods due to current period changes to a defined benefit plan, are recognized immediately in the consolidated statements of operations unless the changes to the defined benefit plan are conditional on the employees remaining in service for a specified period of time (the vesting period). In this case, the past service costs are recognized on a straight-line basis over the vesting period.

Actuarial gains and losses due to current period changes in assumptions applied are recognized immediately in other comprehensive income.

For defined contribution plans, the Company pays contributions to privately administered pension insurance plans on a mandatory, contractual or voluntary basis. The Company has no further payment obligations once the contributions have been paid. The contributions are recognized as employee benefit expense when due. Prepaid contributions are recognized as an asset to the extent that a cash refund or a reduction in the future payments is available.

# Bonus plans

The Company recognizes a provision where contractually obliged or where there is a past practice that has created a constructive obligation.

# Share-based payments

Share options are measured at the fair value of the equity instrument at the grant date. Fair value is measured using the Black-Scholes pricing model. The expected life used in the model is based on management's best estimate and considers the effects of non-transferability, exercise restrictions and behavioral considerations. Social security tax on share options is based on the intrinsic value as of the end of the reporting period and is recorded as a liability over the option period.

Restricted Stock Unit Plans are measured at the grant date using the current market value reduced by expected dividends paid before the vesting date, which is then further discounted.

# Interest bearing debt and borrowings

Interest bearing loans are recognized initially at fair value less transaction costs. Subsequent to initial recognition, interest bearing loans are measured at amortized cost using the effective interest method. Gains and losses are recognized in the consolidated statements of operations when the liabilities are derecognized as well as through the amortization process.

#### Financial assets and liabilities

Financial assets and liabilities are recognized when the Company becomes party to the contractual obligations of the financial instrument and are initially recognized at fair value.

Financial assets and liabilities are classified into categories as follows:

# Financial assets and liabilities measured at fair value through the consolidated statements of operations

This category is comprised of financial assets and liabilities held-for-trading and financial assets and liabilities designated upon initial recognition as measured at fair value through the consolidated statements of operations.

Financial assets and liabilities are classified as held-for-trading if they are acquired for the purpose of selling in the near term. Derivatives are classified as held-for-trading unless designated as effective hedging instruments.

After initial recognition, financial assets and liabilities in this category are measured at fair value with unrealized gains and losses recognized through the consolidated statements of operations.

# Financial assets and liabilities measured at amortized cost

This category is comprised of loans and receivables and other non-derivative financial assets and liabilities with fixed or determinable payments that are not quoted in an active market. These financial assets and liabilities are initially recognized at fair value, with additions for directly attributable transaction costs. After initial measurement, they are carried at amortized cost using the effective interest method less any allowance for impairment.

# Financial assets and liabilities measured at fair value through the consolidated statements of other comprehensive income

This category is comprised of financial assets and liabilities that are non-derivatives and are either designated as available-for-sale or not classified in any of the other categories. After initial measurement, they are measured at fair value with unrealized gains or losses recognized in the consolidated statements of other comprehensive income. When the asset or liability is disposed of, the cumulative gain or loss previously recorded in the consolidated statements of other comprehensive income is reversed and recognized in the consolidated statements of operations.

The fair value of financial instruments that are traded in active markets at each reporting date is determined by reference to quoted market prices or dealer price quotations, without any deduction for transaction costs. For financial instruments not traded in an active market, the fair value is determined using appropriate valuation techniques. Such techniques may include using recent arm's length market's transaction, reference to the current fair value of other instruments that are substantially the same, discounted cash flow analysis or other valuation models. An analysis of fair values of financial instruments and further details as to how they are measured are provided in note 20.

The Company assesses at the end of each reporting period whether there is objective evidence that a financial asset or a group of financial assets is impaired. In the case of equity instruments designated as available-forsale, a significant or prolonged decline in the fair value of the instrument below its cost is an indication of impairment. If such evidence exists for available-for-sale financial assets, the cumulative loss – measured as the difference between the acquisition cost and the current fair value, less any previously recognized impairment – is reversed through the consolidated statements of other comprehensive income and recognized in the consolidated statements of operations. Impairments recognized in the consolidated statements of operations on equity instruments are not

reversed. Impairment testing of trade receivables is described in note 20 "Credit risk"

Derivatives embedded in other financial instruments or other host contracts are treated as separate derivatives when their risks and characteristics are not closely related to those of host contracts and the host contracts are not carried at fair value through the consolidated statements of operations.

#### Earnings per share

Basic earnings per share is calculated by dividing the profit attributable to equity holders of the Company by the weighted average number of ordinary shares outstanding during the year, excluding ordinary shares purchased by the Company and held as treasury shares. Diluted earnings per share is calculated by adjusting the weighted average number of ordinary shares outstanding to assume conversion of all dilutive potential ordinary shares. For diluted earnings per share, dilutive potential ordinary shares are determined independently for each period presented. When the number of ordinary shares outstanding changes (e.g. share split) the weighted average number of ordinary shares outstanding during all periods presented is adjusted retrospectively. Basic and diluted earnings per share are presented separately for continuing and discontinued operations. The dilutive effect of outstanding options is reflected as additional share dilution in the computation of earnings per share.

# Standards issued but not yet effective (which the Company has not early adopted)

Unless specified, the issued standards are not expected to have a significant effect on the financial statements of the Company.

# IFRS 10 Consolidated Financial Statements

IFRS 10 replaces the portion of IAS 27 Consolidated and Separate Financial Statements that addresses the accounting for consolidated financial statements. IFRS 10 establishes a single control model that applies to all entities including special purpose entities. The changes introduced by IFRS 10 will require management to exercise significant judgment to determine which entities are controlled, and therefore, are required to be consolidated by a parent, compared with the requirements that were in IAS 27. This standard is approved by the EU effective from January 1, 2014. The Company will implement IFRS 10 from January 1, 2014.

# IFRS 11 Joint Arrangements

IFRS 11 replaces IAS 31 Interests in Joint Ventures and SIC-13 Jointly-controlled Entities – Non-monetary Contributions by Ventures. IFRS 11 removes the option to account for jointly controlled entities (JCEs) using proportionate consolidation. Instead, JCEs that meet the definition of a joint venture must be accounted for using the equity method. This standard is approved by the EU effective from January 1, 2014. The Company will implement IFRS 11 from January 1, 2014.

# IFRS 12 Disclosure of Interests in Other Entities

IFRS 12 includes all of the disclosures that were previously in IAS 27 related to consolidated financial statements, as well as all of the disclosures that were previously included in IAS 31 and IAS 28. These disclosures relate to an entity's interests in subsidiaries, joint arrangements, associates and structured entities. A number of new disclosures are also required. This standard is approved by the EU effective from 1 January 2014. The Company will implement IFRS 12 from January 1, 2014.

# IAS 27 Consolidated and Separate Financial Statements (revised)

As a consequence of the issuance of IFRS 10, 11 and 12, the IASB issued amended and re-titled IAS 27 Separate Financial Statements. What

remains in IAS 27 is limited to accounting for subsidiaries, jointly controlled entities, and associates in separate financial statements. IAS 27 as revised is approved by the EU effective from January 1, 2014.

# IAS 28 Investments in Associates and Joint Ventures (revised)

As a consequence of the new IFRS 11 and IFRS 12, IAS 28 has been renamed IAS 28 Investments in Associates and Joint Ventures, and describes the application of the equity method to investments in joint ventures in addition to associates. IAS 28 as revised is approved by the EU effective from lanuary 1, 2014.

# Note 3 – Critical Accounting Judgments, Estimates and Assumptions

# **Critical judgments**

The preparation of financial statements in accordance with IFRS requires management to make estimates, assumptions and judgments that affect the reported amounts of assets and liabilities and the disclosure of contingent liabilities. In many circumstances, the ultimate outcome related to the estimates, assumptions and judgments may not be known for several years after the preparation of the financial statements. Actual amounts may differ materially from these estimates due to changes in general economic conditions, changes in laws and regulations, changes in future operating plans and the inherent imprecision associated with estimates.

# Estimation uncertainty and assumptions

The key assumptions concerning the future and other key sources of estimation uncertainty at the end of the reporting period that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are discussed below.

# Deferred tax assets

Deferred tax assets are recognized for all unused tax losses to the extent it is probable that future taxable profit will be available against which the losses can be utilized. Significant management judgment is required to estimate the amount of deferred tax assets that can be recognized, based upon the likely timing and level of future taxable profit. The estimates of projected future taxable profit are based on a number of factors and assumptions, many of which are subjective and outside of the Company's control. Accordingly, these estimates may differ significantly from year to year, and the amount ultimately realized may differ from that which has been recognized in the consolidated statements of financial position.

# Forecast sales of MultiClient library

At least annually, management forecasts future sales for each MultiClient library survey for purposes of determining the amortization rate and amount of impairment, if any. In forecasting sales, management considers past experience, market developments, general prospects for hydrocarbons in the area, political risk, likelihood and timing of exploration licensing rounds, existence of competitor data sets and general economic conditions. Because of the inherent difficulty in forecasting sales and future developments, it is possible that the amortization rates could deviate significantly from year to year. In addition, future revenues on a survey may not be sufficient to cover the existing carrying value. To the extent the actual revenues achieved prove to be less than forecasted, future periods will reflect lower profitability due to increased amortization rates and/or impairments of MultiClient library surveys. The minimum amortization policy is designed to reduce the risk an increase in future years' amortization rates or impairment as result of unfavorable variances in revenues ultimately achieved compared to forecast.

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A 10% reduction in the sales forecast for all surveys with a net book value as of December 31, 2013 would have resulted in a further sales related impairment of \$19 million in 2013 and 5 percentage point higher composite sales amortization rate for those surveys in future periods.

# Property and equipment

Depreciation and amortization is based on management estimates of the future economic benefits and expected useful lives of property and equipment. These estimates may change due to changes in market conditions including competition, technological development, use of the assets and strategic considerations.

# Impairment of property and equipment

Property and equipment are regularly reviewed for impairment, whenever events or changes in circumstances indicate that the carrying amount of the asset may not be recoverable. Future cash flows expected to be generated from the use and eventual disposal of the asset are estimated to determine the amount of impairment, if any.

Estimating future cash flows requires management to make judgments regarding long-term forecasts of future revenues and costs related to the assets subject to review. These forecasts are subject to uncertainty as they require assumptions about demand for our products and services, future market conditions and technological developments. Significant and unanticipated changes in these assumptions could result in a provision for impairment in a future period. Given the nature of these evaluations and their application to specific assets and specific times, it is not possible to reasonably quantify the impact of changes in these assumptions.

# Forecast future revenues from services and products related to intangible assets

At least annually, management forecasts future cash flows from services and products related to intangible assets, hereof \$76 million relating to Towed EM activity. In forecasting cash flow, management considers the future market demand, extent of completion, technological and engineering requirements and the likelihood and timing of completing the service or product offering. Because of the inherent difficulty in estimating these factors, it is possible that future revenues and cash flows from these activities will not be sufficient to recover the existing carrying value of the related assets.

A 20% reduction in estimated gross future revenues from Towed EM activity without any adjustments to estimated future costs would result in an impairment of \$25 million as of December 31, 2013.

#### Provision for contingencies, claims and tax litigations

The Company records accruals for contingencies, claims and other uncertain liabilities, including possible tax litigation, when it is more likely than not that a liability has been incurred and the amount can be reasonably estimated. These accruals are adjusted periodically as assessments change or new or additional information becomes available. In estimating the likelihood of an unfavorable outcome, management evaluates the specific facts and circumstances in light of the related laws and regulations; advice from external counsel; and the outcome of similar cases, if any. Because of the inherent uncertainty in estimating the future outcome of such matters, it is possible that some of these matters will ultimately result in the Company incurring a material liability. As of December 31, 2013 there exists contingent tax claims and other contingent liabilities whose aggregate estimated maximum exposure is approximately \$300 million and for which management considers it more likely than not that the contingencies will be resolved in its favor, no provision is recognized for any portion of the exposure.

# Note 4 - Cost of Sales

(In millions of US dollars)	Year ended December 31,		
	2013	2012	2011
Vessel operating cost	616.9	574.3	556.9
Sales, project and project management cost	153.6	167.1	133.8
Imaging (previously "Data processing"), Geoscience and Engineering cost	149.9	137.3	135.2
Other	24.9	55.1	21.4
Total cash cost of sales	945.3	933.8	847.3
Less amount capitalized to MultiClient library	374.4	291.4	203.9
Net cost of sales	570.9	642.4	643.4

# Note 5 - Segment and Geographic Information

Executive management regularly evaluates the operating segments operational and financial performance. The financial information disclosed is consistent with that used by executive management in controlling the Company's business, for making strategic decisions and for allocating resources. The Company's operating segments are managed separately and represent strategic business product lines. The segments serve a similar worldwide market. Customers for both segments are primarily composed of the same major multi-national, independent and national or state-owned oil companies.

Marine Contract and MultiClient segments satisfy the aggregation criteria under IFRS and accordingly, are presented as a combined Marine reporting segment. Corporate overhead and significant charges that do not relate specifically to the operations of a particular segment are presented as Other. Inter-segment sales are at prices that approximate market values. Financial items, income tax expense and liabilities are not included in the measure of segment performance.

# Year ended December 31, 2013

			Total continuing
(In millions of US dollars)	Marine	Other	operations
Revenues by service lines:			
Marine Contract	677.5	-	677.5
MultiClient pre-funding	360.5	-	360.5
MultiClient late sales	311.3	-	311.3
Imaging (previously "Data processing")	122.7	-	122.7
Other	29.3	0.3	29.6
Total revenues	1,501.3	0.3	1,501.6
Operating costs (a)	(660.4)	(12.3)	(672.7)
EBITDA	840.9	(12.0)	828.9
Other operating income	0.7	-	0.7
Impairments of long-term assets (note 6)	(15.0)	-	(15.0)
Depreciation and amortization (note 6)	(123.9)	(6.8)	(130.7)
Amortization of MultiClient library (note 6)	(301.8)	-	(301.8)
Operating profit (loss)	400.9	(18.8)	382.1
Statement of financial position items and cash investments for the year			
Investments in joint venture and associated companies	48.1	-	48.1
Total assets	3,161.6	382.7	3,544.3
Cash used for investments in long-term assets (b)	822.0	17.4	839.4

<sup>(</sup>a) Operating costs include cost of sales, expensed research and development costs, and selling, general and administrative costs

<sup>(</sup>b) Consist of cash investments in MultiClient library, capital expenditures and investments in other intangible assets

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# Year ended December 31, 2012

			Total continuing
(In millions of US dollars)	Marine	Other	operations
Revenues by service lines:			
Marine Contract	623.5	-	623.5
MultiClient pre-funding	461.3	-	461.3
MultiClient late sales	266.8	-	266.8
Imaging (previously "Data processing")	124.4	-	124.4
Other	42.0	0.3	42.3
Total revenues	1,518.0	0.3	1,518.3
Operating costs (a)	(726.4)	(15.7)	(742.1)
EBITDA	791.6	(15.4)	776.2
Other operating income	1.1	-	1.1
Impairments of long-term assets (note 6)	0.8	-	0.8
Depreciation and amortization (note 6)	(134.3)	(5.3)	(139.6)
Amortization of MultiClient library (note 6)	(344.7)	-	(344.7)
Operating profit (loss)	314.5	(20.7)	293.8
Statement of financial position items and cash investments for the year			
Investments in joint venture and associated companies	52.2	(13.7)	38.5
Total assets	2,705.7	569.9	3,275.6
Cash used for investments in long-term assets (b)	686.9	6.6	693.5

<sup>(</sup>a) Operating costs include cost of sales, expensed research and development costs, and selling, general and administrative costs

# Year ended December 31, 2011

			<b>Total continuing</b>
(In millions of US dollars)	Marine	Other	operations
Revenues by service lines:			
Marine Contract	627.0	-	627.0
MultiClient pre-funding	223.5	-	223.5
MultiClient late sales	278.3	-	278.3
Imaging (previously "Data processing")	110.0	-	110.0
Other	14.2	0.3	14.5
Total revenues	1,253.0	0.3	1,253.3
Operating costs (a)	(707.2)	(11.3)	(718.5)
EBITDA	545.8	(11.0)	534.8
Other operating income	4.4	-	4.4
Impairments of long-term assets (note 6)	(2.6)	-	(2.6)
Depreciation and amortization (note 6)	(155.3)	(5.6)	(160.9)
Amortization of MultiClient library (note 6)	(237.0)	-	(237.0)
Operating profit (loss)	155.3	(16.6)	138.7
Statement of financial position items and cash investments for the year			
Investments in joint venture and associated companies	45.1	3.4	48.5
Total assets	2,507.8	629.4	3,137.2
Cash used for investments in long-term assets (b)	500.0	3.8	503.8

<sup>(</sup>a) Operating costs include cost of sales, expensed research and development costs, and selling, general and administrative costs

Because the Company provides services worldwide to the oil and gas industry, a substantial portion of the property and equipment is mobile, and their respective locations at the end of each period (as listed in the tables below together with the MultiClient library) are not necessarily indicative of the earnings generated by the related property and equipment during the period. Property and equipment is classified based upon location of ownership. Goodwill is classified in the same geographic area as the underlying acquired assets. The geographic classification of statements of operations items is based upon location of performance or, in the case of MultiClient seismic data sales, the geographic area covered by the data being licensed.

<sup>(</sup>b) Consist of cash investments in MultiClient library, capital expenditures and investments in other intangible assets

<sup>(</sup>b) Consist of cash investments in MultiClient library, capital expenditures and investments in other intangible assets

Revenues external customers		Year ended Decembe	r 31,
(In millions of US dollars)	2013	2012	2011
Americas (excluding Brazil and Falkland Islands)	259.7	165.1	185.1
Falkland Islands	134.1	11.7	-
Brazil	133.2	181.3	173.3
UK	132.4	163.6	102.2
Norway	200.4	174.5	169.9
Asia/Pacific	172.0	284.0	252.2
Africa (excluding Angola)	164.5	170.0	153.0
Angola	179.1	301.4	82.7
Middle East/Other	126.2	66.7	134.9
Total	1.501.6	1.518.3	1.253.3

Revenues, including inter-area		Year ended December 31,		
(In millions of US dollars)	2013	2012	2011	
Americas (excluding Brazil and Falkland Islands)	262.6	165.7	187.0	
Falkland Islands	134.1	11.7	-	
Brazil	133.2	181.3	173.3	
UK	165.3	188.8	115.6	
Norway	204.0	180.5	173.9	
Asia/Pacific	172.0	284.2	252.2	
Africa (excluding Angola)	176.8	179.2	157.2	
Angola	179.1	301.4	82.7	
Middle East/Other	126.2	66.7	135.5	
Elimination inter-area revenues	(51.7)	(41.2)	(24.1)	
Total	1,501.6	1,518.3	1,253.3	

Total non-current assets (a)	Decen	ıber 31,
(In millions of US dollars)	2013	2012
Americas (excluding Brazil)	174.8	125.4
Brazil	64.1	42.1
UK	342.7	373.2
Norway	1,220.5	908.1
Asia/Pacific (excluding Singapore)	101.9	103.0
Singapore	480.7	474.4
Africa	70.3	64.5
Middle East/Other	104.3	50.5
Total	2,559.3	2,141.2

<sup>(</sup>a) Consists of Property and equipment, MultiClient library, Investments in joint venture and associated companies (note 16), Goodwill and Other intangible assets.

In 2013, aggregate revenues from the two largest customers accounted for 11.0% and 9.0% of the Company's consolidated revenues, compared to 13.8% and 10.3% in 2012 and 11.0% and 7.0% in 2011, respectively (excluding discontinued operations).

# Note 6 - Depreciation, Amortization and Impairments of Long-Term Assets

Depreciation and amortization consist of the following:

(In millions of US dollars)		Year ended December 31,		
	2013	2012	2011	
Gross depreciation and amortization	(243.9)	(222.5)	(210.9)	
Depreciation capitalized and deferred, net	113.2	82.9	50.0	
Amortization of MultiClient library (note 15)	(301.8)	(344.7)	(237.0)	
Net depreciation and amortization expense	(432.5)	(484.3)	(397.9)	



Impairments and reversal of impairments of long-term assets consist of the following:

	Y	Year ended December 31,		
(In millions of US dollars)	2013	2012	2011	
Impairment of property and equipment (note 14)	(15.0)	(0.9)	(4.6)	
Reversal of impairment of property and equipment (note 14)	-	1.7	2.0	
Net impairment	(15.0)	0.8	(2.6)	

# Note 7 - Interest Expense

Interest expense consists of the following:

(In millions of US dollars)	Ye	Year ended December 31,		
	2013	2012	2011	
Interest expense, gross	(57.6)	(51.4)	(50.5)	
Interest capitalized to the MultiClient library (note 15)	10.5	5.6	6.4	
Interest capitalized to construction in progress (note 14)	14.8	8.0	1.9	
Total	(32.3)	(37.8)	(42.2)	

The average interest rate used to determine the amount of interest expense eligible for capitalization was 5.5%, 5.9% and 6.1% for the years ended December 31, 2013, 2012 and 2011, respectively.

# Note 8 - Other Financial Expense, Net

Other financial expense, net consists of the following:

(In millions of US dollars)	Yea	Year ended December 31,		
	2013	2012	2011	
Interest income	1.6	3.6	7.6	
Loss from joint venture and associated companies (note 16)	(14.3)	(4.2)	(12.4)	
Loss on repurchase of convertible notes (note 19)	-	(7.5)	(5.7)	
Fair value adjustments to financial instruments	-	(6.7)	(13.0)	
Currency exchange loss	(7.6)	(7.3)	(10.3)	
Other	(1.6)	(5.4)	0.4	
Total	(21.9)	(27.5)	(33.4)	

# Note 9 - Income Taxes

Net income tax expense from continuing operations consists of the following:

(In millions of US dollars)	Ye	Year ended December 31,		
	2013	2012	2011	
Current taxes (a)	32.2	43.9	1.2	
Deferred taxes	57.4	(1.0)	28.8	
Total income tax expense	89.6	42.9	30.0	

(a) Current tax mainly relates to withholding taxes in countries of operation.

The deferred tax asset recognized in other comprehensive income is as follows:

	Decem	1ber 31,
(In millions of US dollars)	2013	2012
Pensions (note 24, 30)	(4.1)	(1.6)
Cash flow hedges (note 20)	(2.4)	(5.0)
Total recognized in other comprehensive income	(6.5)	(6.6)

The income tax expense differs from the amounts computed when applying the Norwegian statutory tax rate to income before income taxes as a result of the following:

	Ye	ear ended December 3°	1,
(In millions of US dollars)	2013	2012	2011
Income before income tax expense from continuing operations	327.9	228.5	63.1
Norwegian statutory rate	28%	28%	28%
Provision for income taxes at statutory rate	91.8	64.0	17.7
Increase (reduction) in income taxes from:			
Effect of tax rates other than statutory tax rate in Norway	(1.1)	(3.5)	(1.2)
Tax exempt income within tonnage tax regimes (a)	(34.2)	(29.1)	1.1
Change in assessment of recoverability of prepaid income taxes in Brazil	-	-	(7.9)
Foreign taxes not deductible or subject to credit	7.4	5.5	4.3
Change in tax rate (b)	4.1	1.1	1.5
Currency effects (c)	14.7	(15.9)	1.0
Changes in tax contingencies recognized as tax expense (benefit)	(4.0)	(1.9)	(5.4)
Changes in unrecognized deferred tax assets	6.7	22.3	7.1
Prior period adjustments	(2.4)	3.9	7.4
Other permanent items	6.6	(3.5)	4.3
Income tax expense	89.6	42.9	30.0

Notes to selected items in the preceding table:

- (a) The Company's vessel operations are mainly within the Norwegian Tonnage Tax regime under which operating profit is tax exempt.
- (b) The Norwegian corporate income tax rate was reduced from 28% to 27% effective from January 1, 2014. As a result, a reduction in deferred tax assets of \$3.8 million was recognized in 2013.
- (c) Currency effects primarily relate to translating tax positions in local currency to US dollar functional currency.

The tax effects of the Company's temporary differences are as follows:

	Dece	mber 31,
(In millions of US dollars)	2013	2012
Deferred tax assets		
MultiClient library	(33.7)	(31.8)
Derivatives	(2.0)	(4.3)
Employee benefits	(20.5)	(21.7)
Tax loss carry-forwards	(171.0)	(222.3)
Tax credits	(22.0)	(19.5)
Unrealized exchange loss	(16.8)	-
Other	(21.2)	(29.2)
Deferred tax assets, gross	(287.2)	(328.8)
Deferred tax liabilities		
Property and equipment	38.3	32.0
Intangible assets	27.1	24.6
Current accruals/liabilities	9.0	10.4
Deferred taxable gain/revenue	9.8	4.4
Other	1.7	2.1
Deferred tax liabilities, gross	85.9	73.5
Deferred tax assets, net	(201.3)	(255.3)
Deferred tax assets not recognized in the consolidated statements of financial position	97.5	93.9
Net recognized deferred tax assets	(103.8)	(161.4)

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Net deferred tax (assets) in the consolidated statements of financial position are as follows:

	Decei	mber 31,
(In millions of US dollars)	2013	2012
Deferred tax assets	(110.0)	(169.9)
Deferred tax liabilities	6.2	8.5
Income tax assets, gross	(103.8)	(161.4)

Deferred tax assets specified by jurisdiction, both recognized and unrecognized, and tax losses including expiration periods as of December 31, 2013 are as follows:

			Recognized deferred	Not recognized
(In millions of US dollars)	Tax losses	Expiry dates	tax assets	deferred tax assets
Brazil	63.1	None	-	40.5
Norway	288.0	None	88.5	10.9
Singapore	192.5	None	0.3	-
UK	82.1	None	13.4	20.0
Other	77.7	2015 - No expiry	7.8	26.1
Total	703.4		110.0	97.5

It is the Company's current view that unremitted earnings from international operations are expected to be reinvested indefinitely, and as a result, no Norwegian taxes have been provided for unremitted earnings.

With its multi-national operations, the Company is subject to taxation in many jurisdictions around the world with increasingly complex tax laws. The Company has possible issues in several jurisdictions that could eventually make it liable for material amounts of taxes relating to prior years.

Total accrued tax contingency liabilities is recognized as follows:

	Dec	ember 31,
(In millions of US dollars)	2013	2012
Income tax payable	-	0.8
Other long-term liabilities	2.1	5.3
Total accrued tax contingency liabilities	2.1	6.1

# Brazil tax audits 2006-2008

In May 2012, the Company received two tax assessments for 2008 from the federal tax authorities in Brazil claiming approximately \$66 million including interests and penalties. One assessment asserts that seismic vessels do not meet the definition of a vessel and therefore the charters into Brazil are subject to a 15% withholding tax instead of 0%. The second assessment levies a 10% tax ("CIDE") on the same charters. In 2012, the first administrative appeal level ruled in favor of PGS with respect to the withholding tax claim but upheld the CIDE assessment. On July 17, 2013, the second administrative appeal level ruled in favor of PGS with respect to the withholding tax claim. The ruling has been appealed to the third and last administrative level. The CIDE case is still pending before the second level. Because the Company considers it more likely than not that this contingency will be resolved in its favor, no provision is recognized for any portion of the exposure.

# Note 10 - Earnings per Share Information

Specification of average number of shares:		Year ended December 31,			
	2013	2012	2011		
Weighted average basic shares outstanding (a)	215,566,344	216,634,550	217,238,666		
Dilutive potential shares (b)	834,181	833,388	879,061		
Weighted average diluted shares outstanding	216,400,525	217,467,938	218,117,727		

(a) Weighted average basic shares outstanding for each year is reduced by the average numbers of treasury shares owned by the Company during the year (see note 25)

<sup>(</sup>b) For the years ended December 31, 2013, 2012 and 2011, respectively, share options equivalent to 704,500, 5,649,689 and 6,538,530 common shares, were excluded from the calculation of diluted earnings per share as they were anti-dilutive. In addition 8.0 million shares related to the convertible notes (see note 25) were excluded from the calculation for the year ended December 31, 2011, as they were anti-dilutive.

# Note 11 - Restricted Cash

Restricted cash consists of the following:

	December 31,		
(In millions of US dollars)	2013	2012	
Current:			
Restricted Cash JBIC loan (note 19)	9.6	-	
Restricted payroll withholding taxes	4.5	5.0	
Other	0.5	1.5	
Total restricted cash, current	14.6	6.5	
Long-term:	-	-	
Deposits ISS disputes (note 21)	74.8	85.8	
Total current and long-term	89.4	92.3	

# Note 12 - Accrued Revenues and Other Receivables

Accrued revenues and other receivables consist of the following:

	Decen	1ber 31,
(In millions of US dollars)	2013	2012
Accrued revenues	166.1	132.3
Other receivables	17.2	21.3
Total	183.3	153.6

# Note 13 - Other Current Assets

Other current assets consist of the following:

	Decem	ber 31,	
In millions of US dollars)	2013	2012	
Consumables, supplies and fuel inventory	54.4	44.7	
Deferred steaming costs	25.0	17.2	
Prepaid operating expenses	12.7	16.4	
Withholding taxes and taxes receivable	7.5	7.7	
Prepaid reinsurance	7.1	6.4	
Loans to joint venture and associated company	6.5	-	
Available-for-sale investments	4.0	3.0	
Assets held-for-sale	-	7.5	
Other	7.3	7.2	
Total	124.5	110.1	



## Note 14 - Property and Equipment

The changes in property and equipment, including property and equipment under finance leases, are as follows:

(In millions of US dollars)	Construction of vessels in progress	Vessel conversions	Seismic vessels and equipment	Fixtures, furniture and fittings	Buildings and other	Total
Cost as of January 1, 2012	57.3	58.8	2,234.0	69.5	27.2	2,446.8
Capital expenditures/recoveries	201.7	-	156.1	8.6	1.5	367.9
Capitalized interest	8.0	-	-	-	-	8.0
Asset sales	-	-	(0.2)	(0.5)	-	(0.7)
Asset retirements	-	-	(48.6)	(6.3)	(0.2)	(55.1)
Reclassified to other short-term assets	-	-	(51.7)	-	-	(51.7)
Reclassified to intangible assets	-	-	(3.4)	(13.0)	-	(16.4)
Cost as of December 31, 2012	266.9	58.8	2,286.2	58.3	28.5	2,698.7
Capital expenditures/recoveries	258.5	-	158.4	19.2	1.7	437.8
Capitalized interest	14.8	-	-	-	-	14.8
Assets completed for intended use	(267.8)	-	267.8	-	-	-
Asset retirements	-	-	(53.5)	(4.7)	(0.6)	(58.8)
Cost as of December 31, 2013	272.4	58.8	2,658.8	72.9	29.6	3,092.5
Accumulated depreciation as of January 1, 2012	-	-	890.3	55.7	11.4	957.5
Impairments as of January 1, 2012	-	33.0	162.1	0.4	1.2	196.7
Depreciation	-	-	205.0	6.2	2.8	214.0
Impairments	-	-	(0.8)	-	-	(0.8)
Asset sales	-	-	(0.1)	(0.4)	-	(0.5)
Asset retirements	-	-	(37.5)	(6.3)	(0.2)	(44.0)
Reclassified to other short-term assets	-	-	(49.3)	-	-	(49.3)
Reclassified to intangible assets	-	-	-	(12.5)	-	(12.5)
Depreciation as of December 31, 2012	-	-	1,008.4	42.7	14.0	1,065.2
Impairments as of December 31, 2012	-	33.0	161.3	0.4	1.2	195.9
Depreciation	-	-	226.7	6.9	3.5	237.1
Impairments	-	-	15.0	-	-	15.0
Asset retirements	-	-	(45.1)	(4.4)	(0.6)	(50.2)
Depreciation as of December 31, 2013	-	-	1,190.0	45.2	16.9	1,252.1
Impairments as of December 31, 2013	-	33.0	176.3	0.4	1.2	210.9
Balance as of December 31, 2012	266.9	25.8	1,116.5	15.2	13.3	1,437.7
Balance as of December 31, 2013	272.4	25.8	1,292.6	27.2	11.5	1,629.5

### Impairments

The source vessel Polar Sea is currently stacked. Late in 2013, based upon management's evaluation of market conditions, fleet plan and capital expenditure expectations, management concluded that it no longer expected to re-rig the vessel for use in the fleet. The vessel's carrying value was adjusted down to its estimated sales value of \$2.5 million and an impairment of \$15 million was recognized.

In 2012, the Company reached an agreement for the sale of Beaufort Explorer for \$2.5 million and reversed \$1.7 million of previously recorded impairment. The sale was completed in January 2013. In addition, the Company recognized impairment on other seismic equipment of \$0.9 million, resulting in a net impairment reversal for the year of \$0.8 million.

The net book value of property and equipment under UK leases were zero and \$40.2 million at December 31, 2013 and 2012, respectively. See note 21 for further description of these leases and the accounting impact of certain lease terminations.

# New build program - Ramform Titan-class vessels

Ramform Titan and Ramform Atlas were delivered in May 2013 and January 2014, respectively. Two additional Ramform Titan-class vessels are scheduled for delivery from Mitsubishi Heavy Industries Ltd. in the first and second half of 2015. The estimated cost of each of the additional two vessels is approximately \$260 million, subject to project costs, additional costs related to new technology on the seismic equipment and inflationary price increase on equipment. As of December 31, 2013 an aggregate of \$550 million has yet to be incurred on the two additional vessels and Ramform Atlas.

# Arrow - vessels

In 2007, the Company acquired the Arrow Group which was constructing four 10-12 streamer seismic 3D vessels at the Factorias Vulcano shipyard group in Spain (the Arrow NB's). Subsequently, three of the new-build contracts were cancelled due to delays (NB 532, NB 533 and NB 534). The Company took delivery of NB 534, named PGS Apollo in 2010. For the cancelled Arrow vessels, NB 532 and NB 533, approximately EUR 7 million per vessel with the addition of

interest, is still outstanding from Factorias Vulcano. Factorias Vulcano has entered into Spanish bankruptcy proceedings. Arrow is currently taking steps to recover the values. The net book value of the receivable from the Spanish yard is \$10.1 million and \$9.8 million as of December 31, 2013 and 2012, respectively.

# Note 15 - MultiClient Library

The changes in the MultiClient library are as follows:

(In millions of US dollars)	2013	2012
Balance as of January 1,	382.3	334.1
Capitalized cash costs	373.0	297.4
Capitalized interest	10.5	5.6
Capitalized depreciation	112.9	81.5
Amortization expense	(301.8)	(344.7)
Other	-	8.3
Balance as of December 31,	576.9	382.3

Amortization expense for the year ended December 31, 2013 includes \$40.1 million of non-sales related amortization. This amount is comprised of \$30.0 million in minimum amortization and \$10.1 million of impairments to reflect the discounted cash flow of future sales on certain individual surveys. For the year ended December 31, 2012 the non-sales related amortization totaled \$35.0 million, comprised of \$23.9 million in minimum amortization and \$11.1 million of impairments. For the year ended December 31, 2011, the non-sales related amortization totaled \$19.5 million, comprised of \$17.0 million of minimum amortization and \$2.5 million of impairments.

The net carrying value of the MultiClient library, by the year of survey completion is as follows:

	Decer	nber 31,
(In millions of US dollars)	2013	2012
Completed surveys:		
Completed during 2008	-	17.0
Completed during 2009	27.6	54.9
Completed during 2010	20.5	28.5
Completed during 2011	32.1	48.3
Completed during 2012	45.2	63.1
Completed during 2013	60.2	-
Completed surveys	185.6	211.8
Surveys in progress	391.3	170.5
MultiClient library	576.9	382.3

For information purposes, the following table shows the hypothetical application of the Company's minimum amortization requirements to the components of the existing MultiClient library.

n millions of US dollars)		
During 2014	46.1	
During 2015	63.9	
During 2016	95.3	
During 2017	113.4	
During 2018	114.5	
During 2019	143.7	
Future minimum amortization	576.9	

Because the minimum amortization requirements apply to the MultiClient library on a survey-by-survey basis rather than in the aggregate, the Company may incur significant minimum amortization charges in a year even when the aggregate amount of ordinary amortization charges recognized exceeds the aggregate minimum amortization charges.



# Note 16 - Other Long-Term Assets

Other long-term assets consist of the following:

		December 31,	
(In millions of US dollars)	2013	2012	
Investments in joint venture and associated companies (a)	48.1	38.5	
Loan to PF Thor (note 21)	10.9	-	
Claims against yard (NB's 532 and 533) (note 14)	10.1	9.8	
Deferred loan costs on undrawn new-build borrowing facilities (b)	3.8	8.2	
Loans to joint venture and associated companies (a)	3.5	16.2	
Available-for-sale investments	-	1.5	
Other long-term receivables	8.6	6.2	
Total	85.0	80.4	

(a) Specification of investments in and loans to joint venture and associated companies:

(In millions of US dollars)	Net book value as of December 31, 2013	Loans as of December 31, 2013	Ownership as of December 31, 2013	Net book value as of December 31, 2012	Loans as of December 31, 2012	Ownership as of December 31, 2012
Corporations and limited partnerships						
Azimuth Limited	12.2	-	45%	26.7	-	45%
Azimuth II Limited	20.3	-	45%	-	-	-
Azinam Limited	0.1	-	-	2.0	12.8	35%
Seafloor Geophysical Solutions (SGS)	13.0	-	33%	-	-	-
PGS Overseas Operations (Cyprus) Limited	2.4	3.5	50%	9.6	3.4	50%
Other	0.1	-	-	0.2	-	-
Total	48.1	3.5	-	38.5	16.2	-

In addition, Petroleum Geo-Services ASA has a short-term loan of \$6.5 million to PGS Khazar LLC which is owned 100% by PGS Overseas Operations (Cyprus) Ltd.

(In millions of US dollars)	Share of income (loss) 2013	Share of income (loss) 2012
Corporations and limited partnerships		
Azimuth Limited	(4.9)	(2.2)
Azimuth II Limited	(2.4)	-
Azinam Limited	0.5	(0.5)
Seafloor Geophysical Solutions (SGS)	(0.4)	-
PGS Overseas Operation (Cyprus) Limited	(7.1)	(0.5)
Other	(0.1)	(1.0)
Total	(14.3)	(4.2)

The Company owns 45% of both Azimuth Limited and Azimuth II Limited, which together are the holding companies of the Azimuth Group. The Azimuth Group consists of several operating entities which invest in Exploration and Production (E&P) companies and exploration assets.

In 2011, the Company participated in the establishment of Azimuth Limited primarily by contributing existing equity holdings in smaller E&P companies. In 2012, the Company received shares in Azinam Limited as part of the settlement for exploration assets in Namibia. In addition to shares the Company received a convertible loan of \$12.8 million. In 2013, the Company participated in the establishment of Azimuth II Limited by contributing exploration assets in UK and Ireland, shares in Azinam Limited and Fortis Petroleum Corporation AS, and the convertible loan provided by Azinam Limited.

The Company has entered into a cooperation agreement whereby the Company provides certain services to the Azimuth Group and whereby Azimuth Group has the right to buy, for cash and at fair value, up to 50% of any future equity settlement that the Company may receive as payment for its library or services. The Company has a right but no obligation to provide further funding of Azimuth Group and has no guarantees outstanding.

In 2013, the Company acquired 33.4% of Seafloor Geophysical Solutions (SGS). A strategic cooperation agreement with SGS provides PGS exclusive rights to market and offer SGS node services to clients in the Brazilian market. SGS is a marine geophysical company focusing on seafloor acquisition, based on ocean bottom seismic technology. The Company has committed to contribute \$13.3 million in cash to SGS, of which \$5.3 million has been contributed at December 31, 2013. The Company has no obligation to provide further funding of SGS and has no guarantees outstanding.

The Company owns 50% of PGS Overseas Operations (Cyprus) Ltd (POOL) whose wholly-owned Russian subsidiary, PGS Khazar LLC, performs shallow-

water and transition zone seismic services in the Caspian Sea. In 2013 POOL began marketing the sale of PGS Khazar LLC and has recognized an impairment on long-term assets of PGS Khazar LLC in recording them at the lower of cost and estimated fair value. The Company's share of the impairment is \$5 million and is included in share of loss from joint venture and associated companies.

(b) Deferred loan costs is comprised of loan fees, guarantee fees and professional fees associated with separate financing arranged for each of the vessels Ramform Titan and Ramform Atlas. The related portion of deferred loan costs are reclassified and presented as a reduction of long-term debt when each loan facility is drawn (note 19).

#### Note 17 - Goodwill

The operating segments Marine Contract and MultiClient are cash generating units to which goodwill is allocated for the purpose of evaluating for impairment.

	Decen	nber 31,
(In millions of US dollars)	2013	2012
Marine Contract	97.9	97.9
MultiClient	42.0	42.0
Total	139.9	139.9

The recoverable amount of goodwill is estimated based upon value-in-use and after tax cash flow projections approved by executive management. The key assumptions used relate to growth rates, revenues, operating profit, capital expenditures and discount rate. An after tax discount rate was used of 10.2% as of December 31, 2013 and 9.4% as of December 31, 2012. The nominal growth rate used to extrapolate cash flows beyond the initial 5 years projection period as of December 31, 2013 and 2012 was 2.5%.

Management believes that any reasonably possible change in key assumptions underlying the calculations of the recoverable amount of each cash generating unit would not trigger an impairment as of December 31, 2013.

# Note 18 - Other Intangible Assets

The changes in other intangible assets are summarized as follows:

(In millions of US dollars)	Patents and licenses	Development cost	Technology and other	Exploration expenditures	Total
Cost as of January 1, 2012	181.6	64.7	22.1	20.8	289.2
Additions to costs	8.9	18.9	0.7	1.7	30.2
Asset sales	-	-	-	(16.5)	(16.5)
Asset retirements	(10.5)	-	-	-	(10.5)
Reclassified from property and equipment	16.4	-	-	-	16.4
Reclassified as other long-term assets	-	-	-	(1.0)	(1.0)
Cost as of December 31, 2012	196.4	83.6	22.8	5.0	307.8
Additions to costs	12.0	16.4	-	0.9	29.2
Asset retirements	(10.7)	(0.7)	-	(0.3)	(11.7)
Cost as of December 31, 2013	197.7	99.3	22.8	5.5	325.3
Amortization as of January 1, 2012 (a)	133.6	4.6	16.3	-	154.5
Amortization expense	3.6	1.7	3.2	-	8.5
Asset retirements	(10.5)	-	-	-	(10.5)
Reclassified from property and equipment	12.5	-	-	-	12.5
Amortization as of December 31, 2012 (a)	139.2	6.3	19.5	-	165.0
Amortization expense	3.9	2.2	0.7	-	6.8
Asset retirements	(10.7)	(0.7)	-	-	(11.4)
Amortization as of December 31, 2013 (a)	132.4	7.8	20.2	-	160.4
Balance as of December 31, 2012	57.2	77.3	3.3	5.0	142.8
Balance as of December 31, 2013	65.2	91.5	2.6	5.5	164.9
Estimated useful life	1 to 20 years	1 to 10 years (b)	1 to 12 years	(c)	

<sup>(</sup>a) The accumulated impairment charge on intangibles other than goodwill was \$99.1 million as of December 31, 2013 and 2012.

<sup>(</sup>b) Estimated useful life from completion of development project.

<sup>(</sup>c) Capitalized exploration expenditures are not amortized until the exploration is complete and the results have been evaluated at which time the asset is evaluated for de-recognition or tested for impairment.



#### Note 19 - Debt and Guarantees

## Long-term debt:

Long-term debt consists of the following:

	Dece	December 31,	
(In millions of US dollars)	2013	2012	
Secured:			
Term Ioan B, Libor + 175 Basic points, due 2015	470.5	470.5	
Export credit financing, due 2025	119.8	-	
Unsecured:			
Senior notes, Coupon 7.375%, due 2018	450.0	450.0	
Total	1,040.3	920.5	
Less current portion	(10.3)	-	
Less deferred loan costs, net of debt premiums	(10.4)	(4.7)	
Total long-term debt	1,019.6	915.8	

Undrawn facilities consists of the following:

(In millions of US dollars)	Decen	nber 31,
	2013	2012
Secured:		
Revolving credit facility, due 2018 (a)	500.0	350.0
Export credit financing	125.0	250.0
Unsecured:		
Bank facility (NOK 50 mill)	8.2	9.0
Performance bond	14.6	17.3
Total	647.8	626.3

<sup>(</sup>a) The Senior secured credit facility was amended and extended in September 2013, the Company may now borrow an additional sum of secured debt: \$1,850 million less the sum of (A) any RCF commitments outstanding, (B) Term Loans outstanding and (C) Permitted vessel financing indebtedness outstanding, either as a term loan or as an RCF. Such potential additional borrowing is not committed (except for secured undrawn debt in the table) but would be secured by the same collateral that secures the Term Loan and borrowings under the existing RCF. As long as the Company stays below a leverage ratio of 3:1 it can incur further unsecured debt.

### Senior Secured Credit Facility (Term Ioan B and Revolving Credit Facility "RCF")

The Term Loan is an obligation of PGS ASA and PGS Finance Inc. as co-borrowers, is secured by pledges of shares of material subsidiaries and is guaranteed by the same material subsidiaries. The Term Loan has no financial maintenance covenants. Any drawings on the "RCF" would be subject to the same security.

In September 2013, the "RCF" was increased from \$350 million to \$500 million and the maturity extended to September 2018. The margin on the extended facility changed from LIBOR + 2.25% to an initial margin of LIBOR + 1.75% with utilization fees dependent on the amount drawn (Less than \$150 million + 0.25%, between \$150 million and \$300 million + 0.40%, over \$300 million + 0.60%).

The Senior secured credit facility contains financial covenants and negative covenants that restrict the Company in various ways. The facility provides that:

- 1) For the RCF part the total leverage ratio (see note 20 for definitions of leverage ratios) may not exceed 2.75:1.0 (maintenance covenant). The Term Loan has an incurrence test prohibiting the Company from incurring more indebtedness, with certain exceptions, (described in footnote (a) in the table above) if the total leverage is above 3.00:1.0 (rolling last 4 quarters).
- 2) The credit agreement generally requires the Company to apply 50% of excess cash flow to repay outstanding borrowings for financial years when the total leverage ratio exceeds 2.5:1 or the senior secured leverage ratio exceeds 2:1. Excess cash flow for any period is defined as net cash flow provided by operating activities less capital expenditures and scheduled debt services during that period, minus capital income taxes to be paid in the next period and capital expenditure committed in the period but to be paid in future periods. The Company can make optional prepayments to reduce the outstanding principal balance at no penalty.

In addition, the credit agreement and the indenture to the \$450 million Senior notes (described below) restricts or could restrict the Company's ability, among other things, to sell assets without the sales proceeds being reinvested in the business or used to repay debt; incur additional indebtedness or issue preferred shares; prepay interest and principal on our other indebtedness; pay dividends and distributions or repurchase our capital stock; create liens on assets; make investments, loans, guarantees or advances; make acquisitions; engage in mergers or consolidations; enter into sale and leaseback transactions; engage in transactions with affiliates; amend material agreements governing our indebtedness; change our business; enter into agreements that restrict dividends from subsidiaries; and enter into speculative financial derivative agreements.

The RCF has a \$45 million sub-limit for issuance of letters of credit, which was increased from \$45 million to \$60 million in the second amendment to the credit agreement described above. The separate bonding facility of \$30 million (for issuance of bid and performance bonds) which was originally included in the sub-limit of the RCF, was discontinued during 2012. Under the RCF, the Company may borrow USD, or any other currency freely available in the London banking market to which the lenders have given prior consent, for working capital and for general corporate purposes. At December 31, 2013 and 2012, the Company had zero outstanding in cash advances, and zero outstanding standby letters of credit under the RCF.

#### Senior notes

In December 2012, the Company issued \$150 million add on to the \$300 million Senior notes (issued in November 2011) at a premium of 107.5% of the principal amount. Both the Senior notes issued in 2011 and 2012 will be treated as a single class of debt securities under the same indenture. The Senior notes are senior obligations of the company and rank equally in right of payment with all other existing and future senior debt. The Senior notes have an incurrence test prohibiting the Company from incurring more indebtedness, with certain exceptions, if the consolidated interest coverage ratio is less than 2.0:1.0. At any time prior to December 15, 2015, the Company may redeem the Senior notes at its option, in whole or in part, at a redemption price equal to 100% of the principal amount thereof plus the applicable premium as of, and accrued and unpaid interest to, the date of redemption. Applicable premium means the greater of (i) 1.0% of the principal amount of the Senior notes; and (ii) the excess of (a) the present value at such redemption date of the redemption price of the Senior notes at December 15, 2015 (such redemption price being set forth in the table appearing below plus all required interest payments due on the Senior notes during the period from such redemption date through December 15, 2015 (excluding accrued but unpaid interest), computed using a discount rate equal to the treasury rate as of such redemption date plus 50 basis points, over (b) the principal amount of the Senior notes, if greater. The Senior notes are also redeemable at the Company's option on or after December 15, 2015, in whole or in part, at the redemption prices (expressed as percentages of principal amount) set forth below, plus accrued and unpaid interest thereon to the applicable redemption date, if redeemed during the 12-month period beginning December 15 of the years indicated below:

Year	Percentage
2015	103.69%
2016	101.84%
2017 and thereafter	100.00%

#### **Convertible notes**

In 2012, the Company redeemed, at its option, the remaining Convertible notes for a nominal amount \$190.6 million at an average price of 100.51%.

## **Export credit financing**

On October 10, 2012, the Company entered into an Export credit financing arrangement which includes two loan agreements of \$125 million each with Japan Bank for International Cooperation ("JBIC") and Sumitomo Mitsui Banking Corporation ("SMBC"). The loans will be made available to a wholly owned subsidiary of the Company, PGS Titans AS, and disbursement of the loans become available upon delivery of each of the two new Ramforms, Ramform Titan and Ramform Atlas. Ramform Titan was delivered and the loan drawn in May 2013. Ramform Atlas was delivered from Mitsubishi Heavy Industries in January 2014 and the loan will be drawn before 30th of April 2014. The loans are senior facilities secured by first priority mortgages over the vessels and fittings on board (but excluding "in sea" equipment such as streamers), pledge of the borrower's right under a debt service reserve account and assignment of insurance rights in the vessels. The loans will be repaid over 12 years in semiannual equal installments and will have two tranches whereby JBIC and SMBC each receive 50%. The JBIC tranche bears a fixed interest and is repaid from the 7th to 12th year after draw down, while the SMBC tranche bears a floating interest based on 6 months Libor plus a margin and is repaid from 1st to 6th year after draw down. SMBC has received credit insurance from Nippon Export and Investment Insurance ("NEXI") and the insurance premium is paid by PGS Titans AS.

## Letters of credit and guarantees

The Company has \$8 million and \$10 million uncommitted bid and performance bond facilities intended for regional use. Drawings under these facilities totaled \$3.4 million and \$0.7 million as of December 31, 2013 and 2012, respectively.

The Company had aggregate outstanding letters of credit and similar guarantees, not reflected in the accompanying consolidated statements of financial position, of \$22.3 million and \$16.7 million as of December 31, 2013 and 2012, respectively.

# Note 20 - Financial Instruments

# Fair values of financial instruments

The Company is required to disclose the hierarchy of how fair value is determined for financial instruments recorded at fair value in the consolidated financial statements:

Level 1: quoted prices (unadjusted) in active markets for identical assets and liabilities.

Level 2: assets and liabilities whose values are based on quoted prices in markets that are not active or model inputs that are observable either directly or indirectly.

Level 3: techniques for which all inputs which have a significant effect on the recorded fair value that is not based on observable market data.

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The carrying amounts of cash and cash equivalents, restricted cash, accounts receivable, accrued revenues and other receivables, other current assets, accounts payable and accrued expenses approximate their respective fair values because of the short maturities of those instruments. The fair values of the long-term debt instruments, forward exchange contracts and interest rate swaps are estimated using quotes obtained from dealers in such financial instruments or latest quoted prices or indexes at Reuters or Bloomberg. Where market prices are not observed or quotes from dealers are not obtained, an indirect method is used by use of implied credit spread from debt instrument with similar risk characteristics.

The carrying amounts, estimated fair values of debt and derivatives instruments including how fair value is determined are summarized as follows:

	December 31, 2013		Decen	nber 31, 2012		
	Carrying	Fair		Carrying	Fair	
(In millions of US dollars)	amounts	values	Level	amounts	values	Level
Financial assets measured at fair value						
Forward exchange contracts used for hedging	0.1	0.1	2	1.3	1.3	2
Other foreign exchange contracts	3.1	3.1	2	1.3	1.3	2
Equity shares	4.0	4.0	1	4.5	4.5	1, 3
Financial liabilities measured at fair value						
Foreign exchange contracts used for hedging	(1.6)	(1.6)	2	-	-	-
Other foreign exchange contracts	(0.6)	(0.6)	2	(0.3)	(0.3)	2
Interest rate swaps used for hedging	-	-	-	(18.0)	(18.0)	2
Interest rate swaps not hedge accounted	(8.3)	(8.3)	2	-	-	-
Financial liabilities not measured at fair value						
Debt with fixed interest rate	(512.5)	(544.8)	2	(450.0)	(477.8)	2
Debt with variable interest rate	(527.8)	(530.8)	2	(470.5)	(460.9)	2

#### Financial risk management policies

The Company's objectives when managing capital are to safeguard the Company's ability to continue as a going concern in order to provide returns for shareholders and benefits for other stakeholders such as dividends and to maintain an optimal capital structure to reduce the cost of capital.

The management of the capital structure involves active monitoring and adjustments in light of changes in economic conditions and the risk characteristics of the underlying assets. In order to maintain or adjust the capital structure the Company may refinance its debt, buy or issue new shares or debt instruments, sell assets or return capital to shareholders.

The Company monitors debt on the basis of the leverage ratio and other covenants in credit agreements. This ratio is calculated as gross indebtedness divided by EBITDA less non pre-funded MultiClient library investments. At December 31, 2013, the gross indebtedness was \$1,063.2 million and EBITDA less non pre-funded MultiClient library was \$811.5 million. In addition, the Company monitors a leverage ratio based on net debt. Net debt is calculated as total indebtedness (including "current and long-term debt" as shown in the consolidated statement of financial position) less cash and cash equivalents. The Company generally seeks to keep net debt below 1 or 2 times EBITDA, dependent on several factors including capital spending commitments, the state of the seismic market and macro risks. The Company is of the opinion that the policy would generally satisfy the requirements for a BB-rating (Standard and Poor's)/Ba2-rating (Moody's). The gross leverage ratio at December 31, 2013 and 2012 was 1.31 and 1.22, respectively while the net leverage ratio was 0.76 and 0.72, respectively.

The Company is exposed to market risks such as interest rate risk, foreign exchange rate risk, credit risk and liquidity risk. The Company has written procedures and policies for establishing appropriate exposure levels for the main risks and monitoring such. The Company manages the exposure level through hedging with a mixture of fixed or floating interest rate debt or financial derivatives. The Company's risk management policies are approved by the Board of Directors. The treasury function reports regularly to the Company management and any breach of limits set in the policy shall be reported to the Board of Directors.

## Interest rate exposure

The Company is subject to interest rate risk on debt, including finance leases. The risk is managed by using a combination of fixed -and variable rate debt, together with interest rate swaps, where appropriate, to fix or lower the borrowing costs.

	December 31, 2013		December	31, 2012
	Notional amounts	Weighted average interest rate	Notional amounts	Weighted average interest rate
Debt at fixed interest rate	512.5	6.74%	450.0	7.38%
Debt at variable interest rate based on US dollar plus a margin	527.8	1.88%	470.5	2.00%
Variable interest rate debt with interest fixed	300.0	3.50%	300.0	3.50%

After giving effect to the Company's interest rate swaps, for every one-percentage point hypothetical increase in LIBOR, our annual net interest expense on our variable rate debt, inclusive finance leases and non-restricted cash holdings, will decrease by approximately \$2.5 million and \$2.2 million at December 31, 2013 and 2012, respectively.

#### Interest rate sensitivity

The following table demonstrates the sensitivity to a reasonably possible change in interest rates on the Company's loans and borrowings, after the impact of hedge accounting. The change in fair value of the derivatives used for cash flow hedges will be effected by a change in the interest rate and is shown as the effect on equity. All other variables are held constant and the effect is calculated based on the Company's financial instrument at December 31.

(In millions of US dollars)	Increase/ (decrease) in basis points	Effect on profit before tax	Effect on equity
2013	100	(0.1)	-
2012	100	(1.7)	5.3

#### Foreign exchange rate exposure

The Company is exposed to currency fluctuation due to the effects of a predominantly USD based revenue stream, while the Company's operating expenses and capital expenditures are mainly denominated in USD, GBP, NOK and EUR. The Company maintains a foreign currency risk management strategy that uses foreign currency exchange contracts to protect against fluctuations in cash flow caused by volatility in currency exchange rates. The Company had open forward contracts to buy and sell GBP, NOK, BRL, JPY and GBP, NOK, SGD, BRL and EUR at December 31, 2013 and 2012, respectively. The table shows exposures and foreign exchange contracts in currencies that the Company hedges on a regular basis.

	De	cember 31, 201	3	Dec	ember 31, 201	2
(Numbers in millions)	NOK	GBP	BRL	NOK	GBP	BRL
Restricted cash	27.4	-	176.6	27.9	-	175.3
Current assets	27.3	2.2	-	33.4	1.5	-
Current liabilities	(279.2)	(8.0)	-	(244.6)	(5.3)	-
Pension liabilities	(105.8)	(21.4)	-	(166.4)	(0.6)	-
Other long term liabilities	-	(1.7)	-	-	(1.6)	-
Net statements of financial position exposure	(330.3)	(28.9)	176.6	(349.7)	(6.0)	175.3
Committed capital expenditure:						
Next year	(111.4)	-	-	(112.3)	-	-
1-2 years	(196.5)	-	-	(11.4)	-	-
Net forecast exposure	(307.9)	-	-	(123.7)	-	
Forward exchange contracts	583.4	24.7	(120.0)	490.5	4.0	(120.0)
Net exposure	(54.8)	(4.2)	56.6	17.1	(2.0)	55.3

	Ave	Average rate		Year end spot rate	
	2013	2012	2013	2012	
USD / NOK	5.848	5.814	6.083	5.587	
GBP / USD	1.562	1.586	1.653	1.616	
USD / BRL	2.137	1.934	2.364	2.045	

## Foreign exchange rate sensitivity

A 10% depreciation of the USD would have increased the fair value of the Company's foreign currency derivatives by approximately \$9.1 million and \$4.4 million, and the effect on income before tax on the consolidated statements of operations would have been \$3.6 million and \$2.1 million as of December 31, 2013 and 2012, respectively. The Company's debt and interest swaps are denominated in USD.

#### Exposure to credit risk

The approximate maximum credit exposure related to financial assets is as follows:

Decei	December 31,		
2013	2012		
263.8	390.3		
89.4	92.3		
177.1	176.3		
183.3	153.6		
713.6	812.5		
	<b>2013</b> 263.8 89.4 177.1 183.3		

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We continually monitor the counterparty credit risk of our banking partners, including derivatives counterparties and the institutions in which our cash is held on deposit. Trade receivables are primarily with multinational integrated oil companies and independent oil and natural gas companies, including companies owned in whole or in part by governments. The Company manages its exposure to credit risk through ongoing credit evaluations of customers and counterparties and has provided for potential credit losses through an allowance for doubtful accounts. The allowance for doubtful accounts reflects management's best estimate of probable losses inherent in accounts receivable from trade customers and is based on a number of factors consisting mainly of aging of accounts, historical experience, customer concentration, customer creditworthiness and current industry and economic trends.

	Decen	nber 31,
(In millions of US dollars)	2013	2012
Accounts receivable - trade	178.3	181.0
Allowance for doubtful accounts	(1.2)	(4.7)
Total	177.1	176.3

The Company is also exposed to credit risk relating to off-balance items such as agreements to provide future services to customers and counterparties on derivatives and where cash is held on deposit. The Company manages its exposure to such risks through continuously monitoring of counterparties.

## **Exposure to liquidity risk**

The Company tries to minimize liquidity risk through ensuring access to a diversified set of funding sources, and management of maturity profile on debt and derivatives. The Company is exposed to liquidity risk related to the following:

December 31, 2013		_	Contractual cash flows						
(In millions of US dollars)	Carrying amount	Notional value	Total	0-1 years	1-2 years	2-3 years	3-4 years	4-5 years T	hereafter
Non-derivative financial assets/liabilities									
Trade payables	(66.0)	-	66.0	66.0	-	-	-	-	-
Finance lease liabilities	(0.3)	-	(0.3)	(0.3)	-	-	-	-	-
Debt with fixed interest rates	(512.5)	-	(681.9)	(34.1)	(33.9)	(33.9)	(33.9)	(483.5)	(62.6)
Debt with variable interest rates	(527.8)	-	(546.4)	(21.1)	(486.9)	(11.2)	(11.2)	(10.7)	(5.3)
Derivative financial assets/liabilities									
Interest rate swaps not hedge accounted	(8.3)	300.0	(8.4)	(7.8)	(0.6)	-	-	-	-
Forward exchange contracts used for hedging	(1.5)	51.4	(1.5)	(0.3)	(1.2)	-	-	-	-
Other foreign exchange contracts	2.5	136.8	2.5	2.5	-	-	-	-	-

December 31, 2012		_	Contractual cash flows						
(In millions of US dollars)	Carrying amount	Notional value	Total	0-1 years	1-2 years	2-3 years	3-4 years	4-5 years T	hereafter
Non-derivative financial assets/liabilities									
Trade payables	(61.0)	-	(61.0)	(61.0)	-	-	-	-	-
Finance lease liabilities	(0.1)	-	(0.1)	(0.1)	-	-	-	-	-
Debt with fixed interest rates	(450.0)	-	(649.1)	(33.2)	(33.2)	(33.2)	(33.2)	(33.2)	(483.1)
Debt with variable interest rates	(470.5)	-	(498.7)	(11.7)	(11.4)	(475.6)	-	-	-
Derivative financial assets/liabilities									
Interest rate swaps used for hedging	(18.0)	300.0	(18.1)	(9.9)	(7.6)	(0.6)	-	-	-
Forward exchange contracts used for hedging	1.3	19.2	1.3	1.2	0.1	-	-	-	-
Other foreign exchange contracts	1.0	134.4	1.0	1.0	-	-	-	-	-

In addition, the Company has operating lease commitments and CAPEX commitments, see note 14 and 21.

## Interest rate hedge accounting

In the year ended December 31, 2012, the fair value of the interest rate swaps were recorded in other comprehensive income as the effective portion of the designated and qualifying hedging instrument. The profit and loss impact of the cash flow hedges are estimated to be in the same year as the effect of the cash flows. The Company has not excluded any components of the derivative instruments' gain or loss from the assessment of hedge effectiveness with respect to the qualifying interest rate swaps. In September 2013, the Company discontinued the cash flow hedges and any subsequent change in value of the interest rate swaps has been taken directly to the consolidated statements of operations. The fair value of the derivatives at the time is retained in other comprehensive income and amortized as an adjustment to the effective interest rate over the term of highly probable expected cash flows.

#### Foreign exchange rate hedge accounting

The company entered into derivatives accounted for under fair value hedge relationships to hedge the currency risk related to NOK equipment purchases. A summary of fair value hedging relationships follows:

	December 31, 2013			Dec	2012	
(In millions of US dollars)	Notional value	Fair value	Change in fair value	Notional value	Fair value	Change in fair value
Foreign currency derivatives designated as fair value						
hedging instruments	51.4	(1.5)	(2.7)	19.2	1.3	2.4
Firm commitments to purchase equipment	50.6	2.1	3.2	22.1	(1.0)	(2.1)
Foreign currency derivatives not designated as hedges	136.8	2.5	3.7	134.4	1.0	4.9

The difference between the change in the value of the derivatives and the change in the fair value of the firm commitment is primarily caused by the fact that only the spot element of the derivative is designated to hedge the object and that in previous years derivatives at the hedge designation date were already carried at fair value.

# Note 21 - Leases, Contingent Liabilities and Provisions

#### Leases

# Operating Leases

The Company has operating lease commitments expiring at various dates through 2024. Future minimum payments related to non-cancellable operating leases were as follows:

(In millions of US dollars)	Decer	nber 31,
	2013	2012
2013	-	60.2
2014	67.8	61.8
2015	55.6	45.6
2016	41.6	32.5
2017	34.2	29.2
2018	30.2	28.1
thereafter	152.1	129.6
Total	381.5	387.0

The future minimum payments under the Company's operating leases are for the following types of property:

	Decei	mber 31,
(In millions of US dollars)	2013	2012
Marine seismic and support vessels	278.4	270.2
Buildings	92.3	96.5
Data processing operations equipment	9.1	18.3
Other	1.7	2.0
Total	381.5	387.0

Rental expense for operating leases, including leases with terms of less than one year, was \$108.2 million, \$106.5 million and \$103.3 million for the years ended December 31, 2013, 2012 and 2011, respectively.

## Seismic support vessels

The Company signed 10-year time charter agreements, with renewal options, with P/F Seismic Support for four new seismic support vessels. The Company is providing financing to P/F Seismic Support during the vessel construction phase. The financing is secured by an assignment of bank refund guarantees, a pledge in shares of P/F Seismic Support and a guarantee by its parent, P/F Thor. Upon completion, P/F Seismic Support may require that the Company purchase the vessels for 90% of construction cost, in aggregate \$86 million, and charter the vessels back to P/F Seismic Support under a 10-year bareboat agreement during which period P/F Seismic Support may purchase each of the vessels at a predetermined price. Regardless of whether P/F Seismic Support invokes this sale-leaseback financing mechanism, the time charter agreements remain in effect whereby P/F Seismic Support as lessor operates the vessels and the Company as lessee uses the vessels in its worldwide seismic activities. The loan balance is \$10.9 million at December 31, 2013.

## UK leases

The UK lease agreement for Ramform Valiant was terminated in 2012 pursuant to which the Company paid \$2 million and obtained formal ownership of the vessel. The UK lease agreement for Ramform Challenger was terminated in 2013 pursuant to which the Company received \$4.3 million.



## **Contingent liabilities**

#### Brazil service tax claim

The Company has an ongoing dispute in Brazil for municipal services tax ("ISS") related to the licensing of MultiClient data. The municipality contends that licensing of MultiClient data equates to providing a service to PGS' clients. ISS is a local service tax and the Company's primary view is that licensing of MultiClient data held by the Company should be treated as rental of an intangible asset, which is clearly not a service under the relevant provisions, and therefore not subject to ISS. This has been confirmed by several external advisors and the Company intends to vigorously defend its view. The calculated maximum exposure for ISS tax, including interest charges and penalties, was \$145 million as of December 31, 2013.

The Company has made deposits equivalent to \$94 million in 2010 and 2011 allowing it to file lawsuits covering some of the years, seeking to confirm that licensing of MultiClient data is not subject to ISS. The lawsuits relate to periods before 2002, where the Company has been assessed and lost at administrative appeal levels, as well as periods after 2005, which have not yet been assessed. The Company will continue depositing amounts relating to future licensing transactions. Because the Company considers it more likely than not that this contingency will be resolved in its favor, no provision is recognized for any portion of the exposure. Amounts deposited are held in an interest-bearing bank account with Banco do Brazil and will be released to the Company if and when a positive final ruling is awarded, which may take several years. The deposit is presented as long-term restricted cash in the statements of financial position.

#### Petroiarl

Following the demerger of Petrojarl in 2006, the Company retained a joint secondary liability for certain obligations of Petrojarl. Petrojarl has agreed to indemnify the Company from liabilities related to its operations. Such liabilities include liabilities related to the floating production, storage and offloading units ("FPSOs"), that the Company transferred to Petrojarl in connection with the demerger. With respect to the Petrojarl Foinaven FPSO, PGS has provided a separate on demand guarantee. The guarantee is made in relation to the FPSO service agreement and is for the benefit of the Foinaven co-ventures and is capped at \$10 million. With respect to the Petrojarl Banff FPSO, the Company remains with a joint secondary liability with Petrojarl under their FPSO service agreement with the customer. The guarantee is not capped. If these claims are made and Petrojarl does not honor its obligation to indemnify PGS, it could adversely affect the Company's business, results of operation or financial condition.

#### Provisions

#### Claim towards Polish yard

In 2008, PGS subsidiary Arrow Seismic Invest IV LTD ("Arrow IV") terminated a contract with Polish yard Stocznia Marynarki Wojennej S.A. (the "yard") for the conversion of the vessel Southern Explorer. The yard subsequently detained the vessel as security for alleged claims against Arrow IV. In 2009, Arrow IV initiated a lawsuit against the yard, claiming damages and repossession of the vessel. The yard is in bankruptcy proceedings and the estate is party to the dispute which is in litigation before Danish courts. In June 2013, the Court decision concluded with Arrow IV to pay approx. \$2.5 million in order to get the vessel released. Subsequently, both parties decided to appeal. PGS does not consider it probable that the outcome will have any adverse effect on the Company's business, results of operation or financial condition.

#### Provisions for onerous contracts and dilapidation

The Company has recognized a provision for onerous contract related to lease agreement in Norway for an office which the Company no longer occupies. In addition, the Company has recognized provisions for dilapidation on various office leases. The aggregate provision for the onerous contract and dilapidations was \$4.8 million and \$3.8 million as of December 31, 2013 and 2012, respectively.

## **Note 22 - Accrued Expenses**

Accrued expenses consist of the following:

	Decen	nber 31,
(In millions of US dollars)	2013	2012
Accrued employee benefits	65.3	83.9
Accrued revenue share	50.2	44.6
Accrued vessel operating expenses	34.8	40.7
Received, not invoiced, property and equipment	30.9	17.8
Customer advances and deferred revenue	25.6	31.7
Accrued commissions	15.9	9.0
Accrued project costs	14.8	13.3
Accrued sales tax and VAT	9.5	9.4
Future capital calls SGS (note 16)	8.0	-
Other	24.4	25.2
Total	279.4	275.6

# Note 23 - Other Long-Term Liabilities

Other long-term liabilities consist of the following:

	Decem	ber 31,
(In millions of US dollars)	2013	2012
Pension liability (note 24)	51.3	42.1
Unrealized loss on interest swaps/forward exchange contracts (note 20)	4.1	18.0
Other	7.0	10.8
Total	62.4	70.9

# Note 24 - Pension Obligations

## **Defined benefits plans**

#### Plan characteristics

The Company has defined benefit pension plans for certain Norwegian and UK employees, with eligibility determined by certain period-of-service requirements. In Norway these plans are generally funded through contributions to insurance companies. In the UK, the plans are funded through a separate pension trust. It is the Company's general practice to fund amounts to these defined benefit plans at rates that are sufficient to meet the applicable statutory requirements. The defined benefit plans have been closed for further entrants, as defined contribution plans have been established for all new employees. As of December 31, 2013, 499 employees were participating in the defined benefit plans.

#### Actuarial valuations and assumptions

The actuarial valuations are performed by independent actuaries in Norway and UK.

#### Risks

Actuarial valuations as applied in the consolidated financial statements are based upon financial and demographic assumptions which may be impacted by future events. Such future events include, but are not limited to, changes in discount rates, compensation rates and mortality rates. Changes to assumptions may have significant effect on present net pension liabilities, future pension cost and future cash requirements to fund the plans.

## Plan amendments, curtailments and settlements

Due to intra-group transfer of employees one Norwegian defined benefit plan was settled in 2013, and the participants were transferred to another defined benefit plan within the Company.

### Financial impact

A summary of changes in the plans' aggregate projected benefit obligations and fair values of assets are summarized as follows:

(In millions of US dollars)	2013	2012
Projected benefit obligations (PBO) as of January 1, (a)	193.6	185.3
Service cost	6.5	7.8
Interest cost	8.1	8.0
Employee contributions	1.3	1.4
Social security tax	(0.1)	0.1
Actuarial loss (gain), arising from changes in demographic assumptions	(8.9)	(10.4)
Actuarial loss (gain), arising from changes in financial assumptions	18.6	(8.0)
Plan settlements	(0.8)	-
Benefits paid	(1.5)	(1.5)
Exchange rate effects	(0.4)	10.9
Projected benefit obligations (PBO) as of December 31, (a)	216.4	193.6

(a) \$2.7 million and \$2.1 million arise from unfunded plans as of December 31, 2013 and 2012, respectively.

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Change in fair value of pension plan assets:

(In millions of US dollars)	2013	2012
Fair value of plan assets as of January 1,	151.5	118.3
Expected return on plan assets	6.5	7.6
Employer contributions	10.8	11.3
Employee contributions	1.3	1.4
Actuarial gain (loss) arising from return on plan assets	(2.5)	7.0
Plan settlements	(0.8)	-
Benefits paid	(1.5)	(1.5)
Exchange rate effects	(0.2)	7.4
Fair value of plan assets as of December 31,	165.1	151.5

The aggregate funded status of the plans and amounts recognized in the Company's consolidated statements of financial position are summarized as follows:

	D	ecember 31,
(In millions of US dollars)	2013	2012
Projected benefit obligation (PBO)	216.4	193.6
Fair value of plan assets	165.1	151.5
Net pension liability	51.3	42.1

Net amount recognized as accrued pension liability is presented as other long-term liabilities (see note 23).

Net periodic pension cost for the Company's defined benefit pension plans are summarized as follows:

(In millions of US dollars)	Ye	Year ended December 31,				
	2013	2012	2011			
Service cost	6.5	7.8	6.8			
Interest cost	8.1	8.0	7.8			
Expected return on plan assets	(6.6)	(7.7)	(8.2)			
Adjustments to prior service cost	-	-	(3.9)			
Administration costs	0.1	0.1	0.1			
Social security tax	0.5	0.7	0.6			
Other	-	1.7	(0.1)			
Net periodic pension cost	8.6	10.6	3.1			

Net periodic actuarial gains and losses charged towards other comprehensive income for the Company's defined benefit plans are summarized as follows:

	Year ended December 31,			
(In millions of US dollars)	2013	2012	2011	
Actuarial gain (loss), arising from changes in demographic assumptions	8.9	10.4	(7.9)	
Actuarial gain (loss), arising from changes in financial assumptions	(18.6)	8.0	(14.5)	
Actuarial gain (loss) arising from return on plan assets	(2.5)	7.0	(6.4)	
Net actuarial loss (gain) recognized towards other comprehensive income	(12.2)	25.4	(28.8)	

Assumptions used to determine periodic pension cost:

	20	13	2012	
	Norway	UK	Norway	UK
Discount rate	4.00%	4.65%	3.80%	4.55%
Return on plan assets	4.00%	4.65%	4.00%	6.81%
Compensation increase	3.50%	3.50%	3.00%	3.00%

The discount rate assumptions used for calculating pensions reflect the rates at which the obligations could be effectively settled. Observable long-term rates on corporate bonds are used for the Norwegian and UK plans.

#### Plan asset allocation

The Company's pension plan asset allocations, by asset category, are presented by major plan group as follows:

	Decembe	er 31, 2013	December 31, 2012	
(In millions of US dollars)	Norway	UK	Norway	UK
Fair value plan assets	41.1	124.0	41.5	110.0
Plan assets at fair value with quoted prices in active markets for identical assets:				
Equity/diversified growth funds	6%	44%	7%	44%
Debt securities	2%	42%	2%	44%
Real estate	-	9%	-	10%
Other	-	5%	-	2%
Plan assets valued without quoted prices in active markets:				
Equity/diversified growth funds	2%	-	3%	-
Debt securities	72%	-	68%	-
Real estate	17%	-	17%	-
Other	1%	-	3%	-
Total	100%	100%	100%	100%

Management of plan assets must comply with applicable laws and regulations in Norway and the UK where the Company provides defined benefits plans. Within constraints imposed by laws and regulations, and given the assumed pension obligations and future contribution rates, the majority of assets are managed actively to obtain a long-term rate of return that at least reflects the chosen investment risk.

#### Sensitivity

The following table show the sensitivity of pension cost (excluding amortization of actuarial gains and losses) and benefit obligation (including payroll tax) related to change in discount rate, compensation level and USD:

	1% increase in	1% decrease in	annual compensation	annual compensation	10% appreciation
(In millions of US dollars)	discount rate	discount rate	increase	increase	of USD (a)
Increase (decrease) in pension cost	(2.4)	4.9	3.6	(1.1)	(8.0)
Increase (decrease) in benefit obligations (PBO)	(42.5)	57.6	22.6	(20.8)	(19.6)

(a) Based on the Company's mix of Norwegian plans (NOK denominated) and UK plans (GBP denominated) as of December 31, 2013.

The Company expects to contribute approximately \$8.0 million to its defined benefit pension plans in 2014.

As of December 31, 2013, weighted average remaining service period for employees under the Company's defined benefit pension plans is 14.7 years, while weighted average duration of the defined benefit obligation is 24.1 years.

## **Defined contribution plans**

Substantially all employees not eligible for coverage under the defined benefit plans in Norway and the UK are eligible to participate in pension plans in accordance with local industrial, tax and social regulations. All of these plans are considered defined contribution plans.

The Company's contributions to the Norwegian defined contribution plans for the years ended December 31, 2013, 2012 and 2011 were \$2.1 million, \$2.0 million and \$1.7 million, respectively.

Under the Company's U.S. defined contribution 401(k) plan, substantially all US employees are eligible to participate upon completion of certain period-of-service requirements. The plan allows eligible employees to contribute up to 100% of compensation, subject to IRS and plan limitations, on a pre-tax basis, with a 2013 statutory cap of \$17,500 (\$23,000 for employees aged 50 years and over). Employee pre-tax contributions are matched by the Company as follows: the first 3% are matched at 100% and the next 2% are matched at 50%. All contributions vest when made. The employer matching contribution related to the plan was \$1.6 million, \$1.2 million and \$1.5 million for the years ended December 31, 2013, 2012 and 2011, respectively. Contributions to the plan by employees for these periods were \$4.2 million, \$3.2million and \$4.0 million, respectively.

Aggregate employer and employee contributions under the Company's other plans for the years ended December 31, were \$2.0 million and \$0.9 million (2013), \$1.8 million and \$0.8 million (2012), \$1.6 million and \$0.7 million (2011).

## Note 25 - Shareholder Information

As of December 31, 2013 and 2012, Petroleum Geo-Services ASA had a share capital of NOK 653,399,991 on 217,799,997 shares of par value NOK 3 each, all fully paid.

At the Annual General Meeting ("AGM") held on May 14, 2013, authority was given for the Board of Directors to acquire treasury shares at a maximum par value of the shares of NOK 65,339,999. The shares may be used to meet obligations arising from employee incentive schemes; as part of consideration payable or acquisitions made by the Company; as part of consideration for any merger, demerger or acquisition; by way of cancellation of the shares in part or full; to raise funds for specific investments; for the purpose of repaying loans (including convertible loans); or to strengthen the Company's capital base. The Board is free to choose the method of disposal considered expedient for such purposes. Further, the Board of Directors is authorized to increase the Company's share capital by a total amount of NOK 65,339,999 through one or more subscriptions. The authorization shall be utilized in connection with potential acquisitions of companies or businesses within the oil and energy sector, including the oil service sector, settlement of obligations (including convertible loans), funding of material investments or to raise funds to strengthen the Company's capital base. The Board of Directors was further authorized to increase the share capital with a maximum of NOK 11,000,000 through one or more subscriptions in connection with the share option programs for employees. The Board was also authorized to issue convertible bonds at a total amount of NOK 3,500,000,000. These authorizations are valid until June 30, 2014.

All shares have equal voting rights and equal rights to dividends. Any distribution of the Company's equity is dependent on the approval of the shareholders, and the ability to make distributions is limited by certain debt covenants and Norwegian Corporate Law. The ordinary shares are listed on the Oslo Stock Exchange.

The Board of Directors will propose to the AGM in 2014 a dividend for the year ended December 31, 2013 of NOK 2.30 per share (NOK 495 million in total). The proposed dividend is recognized as a liability in the financial statements in the period it is approved by the AGM.

The Company's holding of treasury shares reconciles as follows:

	Treasury shares	% of total shares outstanding
Balance as of January 1, 2012	1,223,921	
Used to fulfill 2011 share bonus program	(24,700)	
Acquired in 2012	830,000	
Used to fulfill employee share option program in 2012 (note 27)	(985,535)	
Conversion of convertible notes (note 19)	(28,079)	
Balance as of December 31, 2012	1,015,607	0.47%
Acquired in 2013	1,864,893	
Used to fulfill employee share option program in 2013 (note 27)	(221,829)	
Balance as of December 31, 2013	2,658,671	1.22%

The 20 largest shareholders in Petroleum Geo-Services ASA were as follows:

	Decen	nber 31, 2013
	Total shares	Ownership percent
Folketrygdfondet	21,822,711	10.02
Euroclear Bank S.A. (nominee)	9,897,049	4.54
Clearstream Banking S.A. (nominee)	7,255,245	3.33
State Street Bank and Trust Co. (nominee)	6,788,618	3.12
Deutsche Bank Trust Depository Receipts (nominee)	5,038,678	2.31
Varma Mutual Pension Company	4,789,879	2.20
JPMorgan Chase Bank (nominee)	4,504,814	2.07
JPMorgan Chase Bank (nominee)	4,369,665	2.01
Tapiola Mutual Company	4,300,000	1.97
State Street Bank and Trust Co. (nominee)	3,906,224	1.79
State Street Bank and Trust Co. (nominee)	3,498,132	1.61
Verdipapirfondet DnB	3,427,199	1.57
Verdipapirfondet DnB	3,194,859	1.47
JPMorgan Chase Bank (nominee)	3,127,589	1.44
State Street Bank and Trust Co. (nominee)	3,026,661	1.39
Goldman, Sachs & Co (nominee)	2,932,646	1.35
Petroleum Geo-Services ASA	2,658,671	1.22
HSBC Bank Plc (nominee)	2,360,514	1.08
Citibank, N.A. (nominee)	2,091,641	0.96
Vanguard Intl Brown Brother Harriman	2,069,250	0.95
Other shareholders	116,739,952	53.60
Total	217,799,997	100.0

Shares owned or controlled by members of the Board of Directors, Chief Executive Officer and Other Executive Officers were as follows:

	Decem	ber 31, 2013
	Total shares	Ownership percent
Board of Directors		
Francis Gugen, Chairperson	30,000	(a)
Harald Norvik, Vice Chairperson	8,000	(a)
Holly Van Deursen	2,000	(a)
Daniel J. Piette	7,000	(a)
Annette Malm Justad		
Carol Bell	5,000	(a)
Ingar Skaug		
Anne Grethe Dalane		
Walter Qvam		
Chief Executive Officer and Other Executive Officers		
Jon Erik Reinhardsen, President and Chief Executive Officer	87,389	(a)
Gottfred Langseth, Executive Vice President and Chief Financial Officer	36,190	(a)
Guillaume Cambois, Executive Vice President Imaging and Engineering	9,038	(a)
Magne Reiersgard, Executive Vice President Operations	17,427	(a)
Per Arild Reksnes, Executive Vice President Marine Contract	14,791	(a)
Sverre Strandenes, Executive Vice President MultiClient	16,746	(a)

<sup>(</sup>a) Less than 1% of the Company's share as of December 31, 2013.

# **Note 26 - Related Party Transactions**

The following transactions were carried out with related parties:

Year ended December 31,			
2013	2012	2011	
5.6	1.9	2.3	
0.1	0.3	0.2	
-	0.6	2.3	
0.4	1.2	0.9	
3.9	n/a	n/a	
0.3	0.2	0.2	
	2013 5.6 0.1 - 0.4 3.9	2013 2012  5.6 1.9 0.1 0.3 - 0.6 0.4 1.2  3.9 n/a	

<sup>(</sup>a) The Director Mr. Walter Qvam is CEO of the Kongsberg Group and the disclosed transactions are for the period since his election on November 21, 2013 to year end.

The table below detail the outstanding balances with related parties for the years presented:

	December 31,		
(In millions of US dollars)	2013	2012	
Loan to associate (note 16)	10.0	3.4	
Convertible loan to associate (note 16)	-	12.8	

All transactions with related parties are priced on an arm's length basis.

Directors of the Company are also on the Board of certain customers and suppliers. As of December 31, 2013 and 2012, the Company did not have any significant outstanding balances with any of these companies.

## Note 27 - Employee Share Option and Restricted Stock Unit programs

Options and shares granted under the Company's employee option programs are as follows:

	Options on	Additional	Additional	
Grant Year	shares/shares granted	options granted year	options granted	Description
2008	3,060,000	2009	40,000	Employee option program
2009	3,012,500	2010	190,000	Employee option program
2010	1,476,500	2011	28,000	Employee option program
2011	1,469,000	-	-	Employee option program
2012	542,300	-	-	Restricted Stock Plan (RSU)
2013	768,425	-	-	Restricted Stock Plan (RSU)

#### The programs

The Company's option programs are considered as equity-settled plans and the options are measured at fair value at date of grant. For the 2008 and 2009 plans one third of the options vest each of the three years subsequent to the date of grant. The first exercise date is one year after grant date. For the 2010 and 2011 plans, the options vest 3 and 4 years, respectively, after the date of grant for each half of the award. The options may only be exercised four times each year, during a defined period after the publication of the Company's quarterly earnings release. The latest possible exercise date for each plan is five years subsequent to the grant date.

The Restricted Stock Unit programs ("RSU") requires the participant's continued employment with the Company (or a subsidiary) and is settled three years after grant. Upon settlement, the participant will receive at no charge a number of shares in the Company which equals the number of RSUs awarded.

#### Share option conditions

Under the 2008-2011 option programs, the number of options subject to exercise by an employee in a calendar year may not exceed the amount which would result in a gain in excess of 1.5 times the employee's salary for the calendar year. The options include a service condition as the individuals participating in the plan must be employed by the Company for a certain period of time in order to earn the right to exercise the options.

Vesting of options granted in the 2011 program is subject to achievements of strategic goals related to business growth and profitability, HSEQ, new build program and internal control. The Board of Directors shall at year end 2014 assess the Company's achievement of these goals and decide the percentage of options to be vested and that may be exercised subject to the limitations in the preceding paragraph. Options that are not declared vested within four years after the grant date will not become vested or exercisable. Other than for the 2011 program the options include no performance conditions.

#### Exercise price

The exercise price for share options granted corresponds to the weighted average trading price for the Company's ordinary shares on the Oslo Stock Exchange, at the date of grant for the 2008 to the 2011 options.

#### Effect on financial statements

For the years ended December 31, 2013, 2012 and 2011, the Company recognized compensation cost with a corresponding increase in shareholders' equity of \$6.2 million, \$5.1 million and \$5.1 million, respectively. Total net unrecognized compensation cost as of December 31, 2013 was \$12.2 million (related to nonvested share-based options and RSU's), which is expected to be recognized over a period of 3 years.

 $The \ tables \ below \ detail \ the \ Company's \ outstanding \ options \ and \ share \ awards \ (RSU) \ for \ the \ years \ presented.$ 

#### Year-ended December 31, 2013

Grant date	Options outstanding December 31, 2012		Options forfeited in 2013	Options expired in 2013	Options outstanding December 31, 2013	Weighted- average remaining contractual term	Options exercisable December 31, 2013
2008	2,408,666	-	(65,000)	(2,343,666)	-	-	-
2009	680,111	(186,829)	(7,000)	-	486,282	0.4 years	486,282
2010	1,438,500	(35,000)	(44,000)	-	1,359,500	1.4 years	736,248
2011	1,427,500	-	(76,000)	-	1,351,500	2.4 years	-
Total	5,954,777	(221,829)	(192,000)	(2,343,666)	3,197,282	1.6 years	1,222,530

Grant date	RSU share awards outstanding December 31, 2012	Shares granted in 2013	Shares forfeited in 2013	RSU outstanding December 31, 2013	Weighted-average remaining contractual term
2012	528,300	-	(17,100)	511,200	1.4 years
2013	-	768,425	(5,500)	762,925	2.4 years
Total	528,300	768,425	(22,600)	1,274,125	2.0 years

# Year-ended December 31, 2012

Grant date	Options outstanding December 31, 2011	Options exercised in 2012	Options forfeited in 2012	Options expired in 2012	Options outstanding December 31, 2012	Weighted-average remaining contractual term	Options exercisable December 31, 2012
2007	165,000	-	-	(165,000)	-	-	-
2008	2,434,666	-	(26,000)	-	2,408,666	0.4 years	2,408,666
2009	1,617,425	(925,535)	(11,779)	-	680,111	1.4 years	680,111
2010	1,538,500	(60,000)	(40,000)	-	1,438,500	2.4 years	66,667
2011	1,482,000	-	(54,500)	-	1,427,500	3.4 years	-
Total	7,237,591	(985,535)	(132,279)	(165,000)	5,954,777	1.7 years	3,155,444

Grant date	RSU share awards outstanding December 31, 2011	Shares granted in 2012	Shares forfeited in 2012	RSU outstanding December 31, 2012	Weighted-average remaining contractual term
2012	-	542,300	(14,000)	528,300	2.4 years
Total	-	542,300	(14,000)	528,300	2.4 years

The following share options, granted under the share option plans, were exercised for all years presented:

	Year	ended December 31, 201	13	Year ended December 31, 2012			
Grant date	Options exercised	Exercise date	Share price at exercise date	Options exercised	Exercise date	Share price at exercise date	
2009	93,585	February 20, 2013	NOK 96.6527	205,679	February 24, 2012	NOK 85.5154	
2009	15,000	May 6, 2013	NOK 85.7439	8,666	May 14, 2012	NOK 74.5693	
2009	29,686	July 31, 2013	NOK 80.3358	497,373	August 1, 2012	NOK 89.1462	
2010	35,000	July 31, 2013	NOK 80.3358	60,000	August 1, 2012	NOK 89.1462	
2009	43,558	October 31, 2013	NOK 72.2214	213,817	October 31, 2012	NOK 98.8904	
2009	5,000	November 7, 2013	NOK 74.5014				
Total	221,829			985,535			

The table below details the Company's assumptions used to calculate estimated fair value at grant date:

Grant date	Options and shares outstanding December 31, 2013	Average exercise price	Weighted average share price at grant date	Risk free rate	Dividend yield	Volatility factor	Weighted average life	Estimated fair value at grant date (average NOK/USD per share option)
2009	486,282	NOK 40.30	NOK 40.30	2.28%	-	55%	2.4 years	NOK 13.25/\$2.08
2010	1,359,500	NOK 78.31	NOK 78.31	2.30-2.45%	-	60%	3.5 years	NOK 28.24/\$4.57
2011	1,351,500	NOK 77.19	NOK 77.19	2.61-2.76%	-	60%	3.5 years	NOK 30.35/\$5.63
2012 (a)	511,200	NOK 0	NOK 67.65	N/A	-	N/A	N/A	NOK 59.80/\$9.73
2013 (a)	762,925	NOK 0	NOK 83.85	N/A	-	N/A	N/A	NOK 72.80/\$11.97
Total	4,471,407							

(a) Restricted Stock Units ("RSU")

Expected volatility for all grants is based on historical volatility of the Company's shares after emerging from Chapter 11 in November 2003. As a result of unusually high volatility during the international financial distress 2008 to 2009, the Company has estimated volatility for the 2009, 2010 and 2011 grants in order to reflect the expected volatility going forward.

There are no traded options of the Company's shares and there are no post vesting restrictions included in the option plan.

# Note 28 – Salaries and Other Personnel Costs, Number of Employees, and Remuneration to the Board of Directors, Executive Officers and Auditors

Salary and social expenses that are included in cost of sales, research and development costs and selling, general and administrative costs consist of:

	Year ended December 31,			
(In millions of US dollars)	2013	2012	2011	
Salaries and bonuses	271.4	279.4	258.0	
Social security	21.1	24.3	20.9	
Pension	15.8	18.3	7.8	
Other benefits	29.6	36.8	31.3	
Total	337.9	358.8	318.0	

The Company had an average of 2,245, 2,227 and 2,149 employees during the years ended December 31, 2013, 2012 and 2011, respectively.

#### Chief Executive Officer (CEO) and Other Executive Officers

In 2013, the Company paid compensation to its President and CEO and other executive officers as follows:

Total compensation paid in 2013 (a) Total paid Benefits Accrued target salary and paid to bonus as of Other compensation Fixed **Bonus** pension December Position benefits (c) 31, 2013 Name (in dollars) plan (d) salary (b) Jon Erik Reinhardsen President and Chief **Executive Officer** 908,818 1,221,538 89,215 2,219,572 61,351 478,989 Gottfred Langseth Executive Vice President and Chief Financial Officer 592,777 529,459 75,306 1,197,543 65,760 207,658 Guillaume Cambois Executive Vice President, Imaging and Engineering 544,657 435,154 69,668 1,049,479 42,469 189,740 Magne Reiersgard Executive Vice President, 410,000 Operations 506,089 17,040 933,129 76,320 178,875 Per Arild Reksnes Executive Vice President, Marine Contract 569,100 435,154 90,928 1,095,181 103,753 189,740 Sverre Strandenes Executive Vice President, MultiClient 569.100 435.154 100.549 1.104.802 104.557 189.740

Share options and RSUs held by the CEO and executive officers at December 31, 2013 were as follows:

Name	Options and RSUs as of December 31, 2012	Options and RSUs granted 2013	Options and RSUs forfeited 2013	Options exercised 2013	Average exercise price on exercised options (NOK)	Options expired 2013	Options and RSUs as of December 31, 2013	Average exercise price on outstanding options (NOK)	Weighted average remaining contractual term
Jon Erik Reinhardsen	430,000	41,500	-	-	-	(150,000)	321,500	61.67	1.5 years
Gottfred Langseth	258,000	24,900	-	-	-	(90,000)	192,900	61.67	1.5 years
Guillaume Cambois	173,000	24,900	-	-	-	(45,000)	152,900	69.84	1.7 years
Magne Reiersgard	188,000	24,900	-	-	-	(60,000)	152,900	69.84	1.7 years
Per Arild Reksnes	188,000	24,900	-	-	-	(60,000)	152,900	69.84	1.7 years
Sverre Strandenes	229,000	24,900	-	-	-	(90,000)	163,900	67.29	1.6 years

<sup>(</sup>a) Amounts in NOK have been translated to US Dollars using average exchange rate for 2013 of NOK/USD 5.86.

<sup>(</sup>b) Includes payments for the 2012 performance bonus plan (paid in March 2013).

<sup>(</sup>c) Includes items such as car allowance, telephone, internet and other minor benefits. In addition, taxable gain on exercised share options.

<sup>(</sup>d) Contribution to defined benefit plans and defined contribution plans (Norway).

In 2012, the Company paid compensation to its President and CEO and other executive officers as follows:

		Total	compensation	a)			
Name	Position	Fixed salary	Bonus (b)	Other benefits (c)	Total paid salary and compensation (in dollars)	Benefits paid to pension plan (d)	Accrued target bonus as of December 31, 2012
Jon Erik Reinhardsen	President and Chief						
	Executive Officer	889,431	573,373	543,691	2,006,495	60,470	1,053,742
Gottfred Langseth	Executive Vice President and						
	Chief Financial Officer	560,640	187,111	339,978	1,087,729	65,636	456,730
Guillaume Cambois	Executive Vice President,						
	Imaging and Engineering	535,143	196,412	34,408	765,962	42,201	417,582
Magne Reiersgard	Executive Vice President,						
	Operations	490,164	159,865	186,956	836,985	74,160	390,638
Per Arild Reksnes	Executive Vice President,						
	Marine Contract	557,942	170,777	179,944	908,664	103,563	417,582
Sverre Strandenes	Executive Vice President,						
	MultiClient	557,942	227,154	289,938	1,075,035	104,373	417,582

- (a) Amounts in NOK have been translated to US Dollars using average exchange rate for 2012 of NOK/USD 5.813.
- (b) Includes payments for the 2011 performance bonus plan (paid in April 2012).
- (c) Includes items such as car allowance, telephone, internet and other minor benefits. In addition taxable gain on exercised share options.
- (d) Contribution to defined benefit plans and defined contribution plans (Norway).

Share options and RSUs held by the CEO and executive officers as of December 31, 2012 were as follows:

Name	Options and RSUs as of December 31, 2011	Options and RSUs granted 2012	Options and RSUs forfeited 2012	Options exercised 2012	Average exercise price on exercised options (NOK)	Options expired 2012	Options and RSUs as of December 31, 2012	Average exercise price on outstanding options (NOK)	Weighted average remaining contractual term
Jon Erik Reinhardsen	450,000	30,000	-	50,000 (a)	39.19	-	430,000	81.88	1.49 Years
Gottfred Langseth	270,000	18,000	-	30,000 (b)	39.19	-	258,000	81.88	1.49 Years
Guillaume Cambois	155,000	18,000	-			-	173,000	78.73	2.02 Years
Magne Reiersgard	190,000	18,000	-	30,000 (c)	39.19	-	188,000	82.98	1.90 Years
Per Arild Reksnes	190,000	18,000	-	20,000 (d)	40.29	-	188,000	82.98	1.90 Years
Sverre Strandenes	240,000	19,000	-	30,000 (e)	39.19	-	229,000	87.12	1.69 Years

- (a) \$509,284 was reported as taxable income as a consequence of the exercise of share options.
- (b) \$305,570 was reported as taxable income as a consequence of the exercise of share options.
- (c) \$165,582 was reported as taxable income as a consequence of the exercise of share options.
- (d) \$154,139 was reported as taxable income as a consequence of the exercise of share options.
- (e) \$255,531 was reported as taxable income as a consequence of the exercise of share options.

See note 25 for shares held by the Company's CEO and other executive officers and note 27 for further information on the share based payments programs.

# CEO key employment terms

Jon Erik Reinhardsen, President and CEO of the Company, had an annual fixed salary of NOK 4,990,000 in 2013. The CEO has a mutual 6-months period of notice. The CEO is, both during and after the employment, obliged to refrain from taking employment with companies that are direct or indirect competition with PGS. This prohibition applies for a period of two years from the termination date unless the Company sets a shorter period of time.

Other executive officers have similar provisions in their employment terms, with periods of notice of twelve months or less.

Further information on compensation of the CEO and other executive officers are provided in the statement on remuneration below.

# **Board of Directors**

None of our Directors has any contract with us providing benefits upon termination of service.



The table below provides information about our Directors and compensation paid during 2013:

				Compensation
Name	Position	Director since	Term expire	(In US dollars)
Francis Gugen	Chairperson	2003	2014	125,250
Harald Norvik	Vice Chairperson	2003	2014	92,750
Holly Van Deursen	Director	2006	2014	103,750
Daniel J. Piette	Director	2007	2014	104,750
Annette Malm Justad	Director	2008	2014	80,750
Carol Bell	Director	2009	2014	94,750
Ingar Skaug	Director	2009	2014	80,000
Anne Grethe Dalane	Director	2013	2014	6,542
Walter Qvam	Director	2013	2014	6,542
			Total	695,084

The table below provides information about our Directors and compensation paid during 2012:

Name	Position	Director since	Term expire	Compensation (In US dollars)
Francis Gugen	Chairperson	2003	2013	115,028
Harald Norvik	Vice Chairperson	2003	2013	91,500
Holly Van Deursen	Director	2006	2013	96,526
Daniel J. Piette	Director	2007	2013	98,000
Annette Malm Justad	Director	2008	2013	77,554
Carol Bell	Director	2009	2013	90,250
Ingar Skaug	Director	2009	2013	78,554
			Total	647,412

See note 25 for shares held by the Company's Board of Directors.

#### Board of Directors' statement on remuneration to the CEO and the Executive Officers

In accordance with section 6-16a of the Norwegian Public Limited Companies Act, the Board of Directors has prepared a statement related to the determination of salary and other benefits for our CEO and other executive officers. The guidelines set out below for our CEO and other executive officers salary and other benefits, for the coming fiscal year, will be presented to the shareholders for their advisory vote at the May 2014 Annual General Meeting.

PGS is an international company operating in the global geophysical industry. Our operations are conducted world-wide and our employment base is and needs to be largely international. The total compensation package for our CEO and other executive officers shall therefore be competitive both within the Norwegian labor market and internationally. Both the level of total compensation and the structure of the compensation package for our CEO and other executive officers shall be such that it may attract and retain highly qualified international leaders. This will require the use of several different instruments and measures also meant to provide incentives for enhanced performance and to ensure common goals and interest between the shareholders and management.

The current remuneration package for our CEO and other executive officers includes fixed elements and variable elements. The fixed elements consist of a base salary and other benefits. Other benefits include car allowance, newspaper subscription, mobile phone, internet and similar benefits. The fixed elements also include a defined benefit and a defined contribution pension plan.

The CEO and three executive officers have an early retirement plan allowing for termination of employment without cause when the CEO or the executive officers reach the age of 62. Provided that the CEO or executive officers have been employed as a CEO or an executive officer for 10 years (or in some cases longer) the CEO or the executive officers are entitled to a yearly payment of up to 60% of the last base salary beginning in the year of retirement until the CEO or the executive officers reach the age of 67.

The variable elements today consist of a performance bonus scheme, participation in earlier years' share option program and participation in restricted stock unit programs.

Participation in the performance bonus scheme and the target levels and the maximum levels of the annual performance bonus scheme are determined annually. Payment under the performance bonus scheme is based partly on achievements of agreed financial key performance indicators ("KPIs") for the group and partly on achievements of agreed operational, financial and organizational KPIs included in a personal performance contract.

The Group KPIs are financial targets set by the Board of Directors at the start of each fiscal year. The Group KPIs are then broken down to business unit KPIs.

The CEO and other executive officers' personal performance contract for a given year therefore contains such Group or business unit KPI goals as well as KPI goals linked to other personal measures of success such as HSE, operational effectiveness and organizational development.

The annual performance bonus for the CEO is approved by the Board of Directors in a meeting, based on recommendations from the Remuneration and Corporate Governance Committee. The annual performance bonus scheme for the other executive officers are reviewed and approved by the Remuneration and Corporate Governance Committee on the CEO's recommendation, and the executive officers' achievements under the scheme are also reviewed by the Remuneration and Corporate Governance Committee.

In 2013 the CEO participated in a performance bonus scheme where he was entitled to a cash bonus provided the Company and the CEO met certain financial and non-financial performance targets. The target bonus for the CEO which assumes that the company goals and the CEO's individual goals are met is a cash bonus of 85% of the CEO's annual base salary. This target bonus can be increased or decreased in cases of performance above or below the targets set for the CEO and the Company. Other executive officers, listed above, who were employed by the Company during 2013 and remain employed as of March 1, 2014 are participants in a bonus scheme where they are entitled to a cash bonus targeted at 57% of the respective executive's annual base salary. The target bonus can be increased or decreased in cases of performance above or below the targets set for the executive and the Company. The CEO's performance bonus is capped at 150% of base salary, the executive officers' at 100% of base salary.

The Board of Directors will continue to use this scheme for determining the level of annual performance bonus in the coming financial year.

The Annual General Meetings in 2012 and 2013 authorized a performance based restricted stock unit program in order to ensure continued long term incentives which are linked to the development of the Company's share price. The Board of Directors will propose to the 2014 Annual General Meeting a Performance based Restricted Stock Unit program similar to the 2013 program. Under the 2014 Performance based Restricted Stock Unit program the Board of Directors will, based on the previous year's performance against specific targets, propose a pool of Restricted Stock Units which will be granted to eligible employees in 2014. The targets and achievement against such targets are disclosed in the calling notice to the 2014 Annual General Meeting.

Settlement of these Restricted Stock Units and subsequent transfer to the eligible employee of shares in the Company will take place three years later subject principally to further employment by the Company. The full Performance based Restricted Stock Plan including all terms and conditions will be presented to the Annual General Meeting in May 2014 for approval.

This statement deals primarily with the remuneration of our CEO and other executive officers. However, the above described remuneration policy is to a large extent applicable to a broad group of key employees within the Company. Enhanced performance by the management groups is not achieved by our CEO and other executive officers alone but rather is dependent on a large number of managers and key employees throughout the Company. Therefore, a large and increasing number of managers and key employees are included in performance based remuneration schemes, which contain all or some of the above mentioned elements. More than 500 employees within the Company are currently eligible for performance based remuneration. In addition, all other employees may receive up to a maximum of one month salary in annual bonus. The level of this bonus is determined by the Board of Directors based on the financial results of the Company.

Remuneration of the CEO and other executive officers are evaluated regularly by the Remuneration and Corporate Governance Committee and the Board of Directors. The Remuneration and Corporate Governance Committee annually reviews the total compensation level, the mix between fixed and performance related compensation and the mix between short, medium and long term compensation. The Remuneration and Corporate Governance Committee has developed an annual schedule in order to ensure and facilitate a structured approach to the annual review of executive compensation. The committee has also engaged an external advisor for this work.

A specific peer group of comparable companies and an executive remuneration philosophy has been adopted. The peer group currently consists of seventeen companies from Norway, Europe and the Americas. All companies are of comparable size and with international operations within the oil service sector. The external advisor collects and combines relevant information on the companies in the peer group. This is used by the Remuneration and Corporate Governance Committee and the Board of Directors for benchmarking of executive remuneration. The executive remuneration philosophy document includes certain targets and guidelines on how the Company's CEO and executives should compare to the peer group. These tools amongst others, are used by the Remuneration and Corporate Governance Committee and the Board of Directors to decide on an appropriate remuneration structure and to set appropriate total remuneration for the CEO and executive officers.

Since the Annual General Meeting in May 2013 the Board of Directors have followed the guidelines then approved by the Annual General Meeting with respect to remuneration of the CEO and the other executive officers.

#### Remuneration of auditor

Fees for audit and other services provided by the Company's auditor are as follows (exclusive VAT and including out of pocket expenses):

	Ye	Year ended December 31,			
(In millions of US dollars)	2013	2012	2011		
Audit fees	2.6	2.7	2.9		
Other attestation services and tax services (a)	0.3	0.1	0.2		
Total	2.9	2.8	3.1		

<sup>(</sup>a) Fees for tax services consist of fees for tax filing services and other tax assistance.

# Note 29 - Subsidiaries

The ownership percentage in subsidiaries as of December 31, 2013, was as follows:

Company	Jurisdiction	Shareholding and voting rights
PGS Onshore (Algeria) EURL	Algeria	100%
PGS Australia Pty. Ltd.	Australia	100%
Seahouse Insurance Ltd.	Bermuda	100%
PGS Investigação Petrolifera Limitada	Brazil	100%
PGS Onshore do Brazil Ltda.	Brazil	100%
PGS Onshore Servicos Ltda.	Brazil	100%
PGS Suporte Logistico e Servicos Ltda.	Brazil	100%
PGS Overseas Trading (Cyprus) Ltd.	Cyprus	100%
PGS Data Processing Middle East SAE	Egypt	100%
PGS Egypt for Petroleum Services	Egypt	100%
PT PGS Nusantara	Indonesia	94%
Oslo Challenger Plc	Isle of Man	100%
Oslo Explorer Plc	Isle of Man	100%
Oslo Seismic Services Ltd.	Isle of Man	100%
PGS Marine Services (Isle of Man) Ltd.	Isle of Man	100%
PGS Shipping (Isle of Man) Ltd.	Isle of Man	100%
PGS Japan K.K.	Japan	100%
PGS (Kazakhstan) LLP	Kazakhstan	100%
PGS Asia Pacific Labuan Ltd.	Labuan	100%
Petroleum Geo-Services Exploration (M) Sdn. Bhd.	Malaysia	100%
PGS Data Processing & Technology Sdn. Bhd.	Malaysia	100%
PGS Data Processing S.A. de C.V	Mexico	100%
Smart Technical Solutions Company S.A. de C.V	Mexico	100%
Technical Geophysical Solutions Company S.A. de C.V	Mexico	100%
PGS Geophysical (Netherlands) B.V.	Netherlands	100%
PGS Exploration (Nigeria) Ltd.	Nigeria	100%
Arrow Seismic ASA	Norway	100%
Dalmorneftegeofizika PGS AS	Norway	49%
Multiklient Invest AS	Norway	100%
PGS Falcon AS	Norway	100%
PGS Geophysical AS	Norway	100%
PGS Overseas AS	Norway	100%
PGS Shipping AS	Norway	100%
PGS Support AS	Norway	100%
PGS Titans AS	Norway	100%
Petroleum Geological Services LLC	Oman	100%
Natuna Ventures Pte. Ltd.	Singapore	100%
Petroleum Geo-Services Asia Pacific Pte. Ltd.	Singapore	100%
PGS Technology (Sweden) AB	Sweden	100%
Arrow Seismic Invest II Ltd.	United Kingdom	100%
Arrow Seismic Invest III Ltd.	United Kingdom	100%
Arrow Seismic Invest IV Ltd.		100%
Arrow Seismic Invest V Ltd.  Arrow Seismic Invest V Ltd.	United Kingdom	100%
	United Kingdom	
Arrow Seismic Invest VI Ltd.	United Kingdom	100%
Panoceanic Energy Limited	United Kingdom	100%
Petroleum Geo-Services (UK) Ltd.	United Kingdom	100%
PGS EM Limited	United Kingdom	100%
PGS Exploration (UK) Ltd.	United Kingdom	100%
PGS Geophysical (Angola) Ltd.	United Kingdom	100%

Company	Jurisdiction	Shareholding and voting rights
PGS Pension Trustee Ltd.	United Kingdom	100%
PGS Reservoir Ltd.	United Kingdom	100%
PGS Seismic (UK) Ltd.	United Kingdom	100%
PGS Seismic Services Ltd	United Kingdom	100%
Seismic Exploration (Canada) Ltd.	United Kingdom	100%
Strike Oil Ltd	United Kingdom	100%
Deep Gulf LP	United States	50.1%
Petroleum Geo-Services, Inc.	United States	100%
PGS Americas, Inc.	United States	100%
PGS Data Processing, Inc.	United States	100%
PGS Finance, Inc.	United States	100%
PGS Ocean Bottom Seismic, Inc.	United States	100%
PGS Servicios C.A.	Venezuela	100%
PGS Venezuela de C.A.	Venezuela	100%

# Note 30 - Change in Accounting Policy

Effective January 1, 2013, the Company adopted revised IAS 19 Employee benefits (2011). The main amendments impacting the Company are: (i) removal of the corridor mechanism such that actuarial gains and losses are recognized immediately in other comprehensive income, and (ii) the expected returns on plan assets must equal the discount rate on the projected benefit obligation. The standard is applied retrospectively including periods prior to January 1, 2013.

The following table presents the impacts of applying the standard retrospectively. The impact to the consolidated statements of operations is insignificant and, as such, the results from operations of prior periods are not restated.

	Decer	nber 31,
(In millions of US dollars)	2012	2011
Other long-term liabilities as previously reported	59.0	62.7
Change in pension liability from recognizing unrecognized actuarial losses	11.9	37.3
Restated other long-term liabilities	70.9	100.0
Deferred tax assets as previously reported	168.3	177.9
Tax effect from change in pension liability	1.6	8.6
Restated deferred tax assets	169.9	186.5
Other comprehensive income as previously reported	(16.0)	(20.3)
Effect on other comprehensive income	(10.3)	(28.7)
Restated other comprehensive income	(26.3)	(49.0)
	Year ended D	ecember 31,
Other comprehensive income	2012	2011
Actuarial gains (losses) on defined benefit pensions plans	25.4	(28.8)
Income tax effect on actuarial gains and losses	(7.0)	7.2
Items that will not be reclassified to statements of operations	18.4	(21.6)



## Note 31 - Subsequent Events

## **Delivery of Ramform Atlas**

The Ramform Titan-class vessel Ramform Atlas was delivered in January 2014.

#### Term loan

In March 2014, the Term Loan was resized from \$470.5 million to \$400 million and the maturity extended to March 2021. The margin on the extended facility changed from LIBOR + 1.75% to LIBOR (with a floor of 0.75%) + 2.50%. The security of the loan remains unchanged as described in note 19. As a result of this refinancing, deferred loan costs from the original instrument loan and the reserve related to hedging of the interest rate on the loan held in equity will be expensed in the total of \$6.4 million, net of tax.

## **Export credit financing**

In March 2014, the Company established Export Credit Financing of \$305 million for the two Ramform Titan-class vessels scheduled for delivery in 2015 (note 14). The lenders are Japan Bank for International Cooperation ("JBIC") and Sumitomo Mitsui Banking Corporation ("SMBC") with Nippon Export and Investment Insurance ("NEXI") insuring the SMBC portions of the loans. The loans will have a tenor of 12 years from delivery of the vessels with semi-annual equal installments. Lenders will have first priority mortgage in the two vessels. Half the loan will bear fixed interest rate while the other half will have a revolving 6 months floating interest plus a margin.

#### Termination of Norwegian defined benefit plan

In 2014, the Company decided to terminate the Norwegian defined benefit plan. During 2014, further pension benefit vesting will cease under this plan and the participants will be transferred to the defined contribution plan. The plan assets will be transferred to a 3rd party insurance company who in exchange will assume responsibility for making all benefit payments under that plan. Upon plan termination and transferring of the assets and related obligation to the 3rd party insurance company in 2014, the net pension liability, comprised of the project benefit obligation net of plan assets, will be de-recognized. As of December 31, 2013 the net pension liability related to this plan is approximately \$13.1 million.

# PETROLEUM GEO-SERVICES ASA (PARENT COMPANY)

# **STATEMENTS OF OPERATIONS**

		Υ	ear ended December 3	31,
(In millions of NOK)	Note	2013	2012	2011
Revenue	2	122.1	141.8	117.3
Cost of sales	2	2.4	2.5	2.5
Salaries and other operating expenses	2	137.8	143.8	135.7
Total operating expenses		140.2	146.3	138.2
Operating loss		(18.1)	(4.5)	(20.9)
Interest expense, net	2, 3	(304.1)	(249.2)	(232.2)
Impairment, net of reversal of impairment on shares in subsidiaries/				
intercompany receivables	1, 7	(358.0)	216.6	6.8
Impairment of investment in associated company		-	-	(106.1)
Dividends/group contribution received from subsidiaries	2	1,902.7	932.0	1,535.7
Other financial items, net	4	(330.1)	54.7	(246.0)
Income before income taxes		892.4	949.6	937.3
Income tax expense	5	190.2	34.6	299.2
Net income		702.2	915.0	638.1

# PETROLEUM GEO-SERVICES ASA (PARENT COMPANY)

# STATEMENTS OF FINANCIAL POSITION

		December 31	l,
(In millions of NOK)	Note	2013	2012
ASSETS			Restated <sup>(1)</sup>
Long-term assets:			
Deferred tax assets	5, 18	546.7	748.9
Shares in subsidiaries	1, 7	12,656.6	13,322.9
Intercompany receivables	1, 7	6,529.1	4,129.7
Total long-term assets		19,732.4	18,201.5
Current assets:			
Short-term intercompany receivables		19.4	44.0
Other current assets	8	62.8	35.9
Restricted cash	9	2.6	5.7
Cash and cash equivalents		1,268.1	2,036.2
Total current assets		1,352.9	2,121.8
Total assets		21,085.3	20,323.3
LIARDI ITIES AND SHAREHOI DEDS' FOUNTY			
LIABILITIES AND SHAREHOLDERS' EQUITY Shareholders' equity:			
Common stock; par value NOK 3; issued and outstanding 217,799,997 shares	10	653.4	653.4
Treasury shares, par value	10	(7.9)	(3.0)
Additional paid-in capital	10	2,386.6	2,348.7
Total paid in capital		3,032.1	2,999.1
Other equity	10, 18	7,989.6	7,898.6
Total shareholders' equity		11,021.7	10,897.7
Long-term liabilities:			
Long-term debt	11, 12	5,551.6	5,111.1
Intercompany debt	1	3,848.1	3,723.6
Other long-term liabilities	13, 18	37.6	112.5
Total long-term liabilities		9,437.3	8,947.2
Current liabilities:			
Short-term intercompany debt		42.3	46.9
Accrued dividend	10	494.8	359.4
Accrued expenses and other short-term liabilities	16	89.2	72.1
Total current liabilities		626.3	478.4
Total liabilities and shareholders' equity		21,085.3	20,323.3

 $<sup>^{(1)}</sup>$  The financial information is restated from retrospectively adopting NRS6 (revised) and IAS19R, see note 18.

London, March 19, 2014 Board of Directors Petroleum Geo-Services ASA

Francis Gugen Chairperson

Harald Norvik Vice Chairperson

Carol Bell Daniel J. Piette Holly Van Deursen

Anne Grethe Dalane

Aury Baleur Aunder Halm Justa & Annette Malm Justad

Ingar Skaug

Walter Qvam

Jon Erik Reinhardsen Chief Executive Officer

# PETROLEUM GEO-SERVICES ASA (PARENT COMPANY)

# **STATEMENTS OF CASH FLOWS**

	Year ended December 31,		1,
(In millions of NOK)	2013	2012	2011
Cash flows provided by (used in) operating activities:			
Net income	702.2	915.0	638.1
Adjustments to reconcile net income to net cash used in operating activities:			
Changes in deferred tax assets	202.2	49.4	302.3
Impairment, net of reversal of impairment of shares in and loan to subsidiaries	358.0	(216.6)	(6.8)
Impairment of investment in associated companies	-	-	106.1
Dividend/ group contribution	(1,902.7)	(932.0)	(1,535.7)
Unrealized foreign exchange (gain) loss	339.7	(231.6)	(22.2)
Changes in current assets and current liabilities	284.4	247.0	213.3
Other items	(23.8)	191.3	232.1
Net cash provided by (used in) operating activities	(40.0)	22.5	(72.8)
Cash flows provided by (used in) investing activities:			
Investment in subsidiaries and changes intercompany receivables, net	(13.1)	421.1	(904.5)
Repayment of long term receivables, net	-	142.2	(156.7)
Net cash provided by (used in) investing activities	(13.1)	563.3	(1,061.2)
Cash flows provided by (used in) financing activities:			
Proceeds from issuance of long-term debt	(31.8)	884.9	1.729.2
Repayment of long-term debt	-	-	(837.2)
Net decrease in bank facility and short-term debt	_	(1,105.9)	-
Investment in/ sale of own shares, net	(158.7)	(26.9)	(72.6)
Receipts of dividend/ group contribution from group companies	-	-	535.7
Dividend paid to shareholders of PGS ASA	(355.6)	(238.5)	-
Other	(314.6)	(262.7)	(280.1)
Net cash provided by (used in) financing activities	(860.7)	(749.1)	1,075.0
Net decrease in cash and cash equivalents	(913.8)	(163.3)	(59.0)
Effect of exchange rate changes on cash and cash equivalents	145.7	(164.4)	64.0
Cash and cash equivalents at beginning of year	2,036.2	2,363.9	2,358.9
Cash and cash equivalents at end of year	1,268.1	2,036.2	2,363.9

## Note 1 - Summary of Significant Accounting Policies

Petroleum Geo-Services Group ("the Company") prepares its consolidated financial statements in accordance with International Financial Reporting Standards ("IFRS") as adopted by the European Union, while Petroleum Geo-Services ASA ("PGS ASA") prepares its financial statements in accordance with the Norwegian Accounting Act and accounting principles generally accepted in Norway ("N GAAP").

PGS ASA applies the same accounting policies as described in note 2 in the notes to the consolidated financial statements where relevant, except that unrealized foreign exchange gain (loss) on long-term intercompany loans is recognized in the statements of operations. The financial statements are presented in Norwegian Kroner ("NOK").

Shares in subsidiaries (see note 7) are presented at cost less impairment. Impairment is recognized based upon the carrying value of the individual shares and net intercompany receivables in the subsidiaries less the estimated recoverable amount (based on discounted estimated future cash flows). If and when estimated recoverable amounts increase, impairment charges are reversed. There is no fixed plan for repayment of long-term intercompany receivables.

The proposed dividend to shareholders for the year is recognized as a liability at year end because it is considered more likely than not that the dividend will be approved by the General Assembly the following year.

#### New standard adopted in 2013

The Company adopted revised NRS6 and IAS 19 Employee benefits (revised 2011; IAS 19R) effective for annual periods beginning on or after January 1, 2013. The standard is applied retrospectively. The main amendments impacting the Company are: (i) removal of the corridor mechanism such that actuarial gains and losses are recognized immediately in other comprehensive income, and (ii) the expected returns on plan assets must equal the discount rate on the projected benefit obligation. Refer to note 18 for further information.

# Note 2 - Intercompany Transactions

PGS ASA has significant intercompany transactions with its subsidiaries. Transactions with subsidiaries are mainly related to business support functions and financing activities. Intercompany transactions in the statements of operations consist of:

(In millions of NOK)	Ye	Year ended December 31,		
	2013	2012	2011	
Revenue	120.1	140.3	116.6	
Cost of sales	1.9	2.0	2.0	
Salaries and other operating expenses	92.2	115.7	37.5	
Interest expense (income), net (note 3)	(19.0)	(26.7)	(35.5)	
Other financial items, net (note 4)	0.4	(0.6)	35.1	
Dividends/group contribution received from subsidiaries	(1,902.7)	(932.0)	(1,535.7)	
Intercompany transactions, net	1,947.3	981.9	1,613.2	

## Note 3 - Interest Expense, Net

Interest expense, net, consist of:

(In millions of NOK)	Y	Year ended December 31,		
	2013	2012	2011	
Interest income, external	19.4	14.4	19.5	
Interest income, intercompany	492.4	510.7	442.5	
Interest expense, external	(342.5)	(290.3)	(287.2)	
Interest expense, intercompany	(473.4)	(484.0)	(407.0)	
Total	(304.1)	(249.2)	(232.2)	

# Note 4 - Other Financial Items, Net

Other financial items, net, consist of:

	Ye	Year ended December 31,		
(In millions of NOK)	2013	2012	2011	
Foreign currency (loss) gain	(334.5)	151.7	(154.8)	
Gain on sale of subsidiaries	4.6	-	6.8	
Loss on repurchase of convertible bonds	-	(43.7)	(31.2)	
Write-down of long term receivables	-	-	(44.7)	
Other	(0.2)	(53.3)	(22.1)	
Total	(330.1)	54.7	(246.0)	

# Note 5 - Income Taxes

The income tax expense differs from the amounts computed when applying the Norwegian statutory tax rate to income before income taxes as a result of the following:

	Y	Year ended December 31,		
(In millions of NOK)	2013	2012	2011	
Income before income taxes	892.4	949.6	937.3	
Norwegian statutory tax rate	28%	28%	28%	
Provision for income taxes at the statutory rate	249.9	265.9	262.5	
Increase (reduction) in income taxes from:				
Change in corporate tax rate	20.9	-	-	
Impairment (reversal) of shares in subsidiaries	(51.4)	(4.1)	147.7	
Non-taxable dividends/ group contribution	(196.0)	(188.9)	(356.2)	
Permanent difference impairment of intercompany receivables	172.4	(59.4)	249.4	
Other permanent items	(19.7)	21.1	(10.2)	
Change in unrecognized deferred tax assets	14.1	-	6.0	
Income tax expense	190.2	34.6	299.2	

	Decer	nber 31,
(In millions of NOK)	2013	2012
Temporary differences relates to:		
Pension liabilities (a)	3.3	2.6
Intercompany receivables	109.7	108.7
Unrealized exchange gain (loss)	(2.8)	5.9
Shares in foreign subsidiaries	37.0	94.5
Compensation cost employee share options	8.4	0.7
Interest rate swaps (a)	14.9	28.2
Other	6.2	15.6
Tax losses carried forward	407.0	587.2
Deferred tax assets	583.7	843.4
Deferred tax assets not recognized in statements of financial position	(37.0)	(94.5)
Deferred tax assets	546.7	748.9

<sup>(</sup>a) Change in deferred tax for actuarial gains/losses on pensions and interest swaps are recognized directly to shareholders' equity (see note 10, 12 and 14).



# Note 6 - Property and Equipment

Property and equipment consists of fixtures, furniture and fittings and is summarized as follows:

(In millions of NOK)	2013	2012
Purchase cost as of January 1	91.0	91.0
Sales/retirements	(85.9)	-
Purchase cost as of December 31	5.1	91.0
Accumulated depreciation as of January 1	89.8	89.5
Sales/retirements	(84.7)	-
Depreciation for the year	-	0.3
Accumulated depreciation as of December 31	5.1	89.8
Balance as of December 31		1.2

Property and equipment is depreciated between 3 to 5 years.

# Note 7 - Shares in Subsidiaries and Intercompany Receivables

Shares in subsidiaries are recognized in PGS ASA balance sheet at cost less any impairment.

	Registered office	Shareholding (a)	Book value as of 12/31/2013 (in millions of NOK)	Equity as of 12/31/2012 (in millions of NOK)	Net income 2012 (in millions of NOK)
PGS Asia Pacific Pte. Ltd.	Singapore	100%	3,148.6	3,030.0	117.0
PGS Geophysical AS	Oslo	100%	2,818.8	1,519.7	352.9
Petroleum Geo-Services (UK) Ltd.	London	100%	1,302.6	954.6	41.3
PGS Falcon AS	Oslo	100%	1,254.5	1,344.3	198.4
PGS Shipping AS	Oslo	100%	1,141.0	1,619.0	551.8
Multiklient Invest AS	Oslo	100%	989.7	918.6	235.1
Arrow Seismic ASA	Oslo	100%	786.9	1,670.8	(72.9)
PGS Titans AS	Oslo	100%	690.0	707.3	17.3
PGS EM Ltd.	Scotland	100%	312.3	(523.4)	(28.4)
PGS Support AS	Oslo	100%	150.0	N/A	N/A
Oslo Seismic Services Ltd. (IoM)	Isle of Man	100%	33.6	144.3	5.0
Seahouse Insurance Ltd.	Bermuda	100%	27.6	27.2	(10.1)
PGS Japan KK	Japan	100%	0.6	11.9	2.2
PGS Exploration (Nigeria) Ltd.	Nigeria	100%	0.3	(4.5)	(23.6)
PGS Overseas AS	Oslo	100%	0.1	37.4	(0.5)
Petroleum Geo-Services Inc.	Houston	100%	-	930.1	(51.6)
PGS Australia Pty. Ltd.	Perth	100%	-	(109.5)	(131.2)
PGS de Venezuela CA	Venezuela	100%	-	(15.3)	1.5
PGS Investigacao Petrolifera Ltda.	Brazil	99%	-	(583.5)	22.8
PGS Suporte Logistico e Servicios Ltda. (b)	Brazil	1%	-	(87.0)	(43.1)
PT PGS Nusantara (Indonesia)	Indonesia	93%	-	(17.6)	(25.4)
Technical Geophysical Solutions Company	Mexico	100%	-	0.2	0.6
Total			12,656.6		

<sup>(</sup>a) Voting rights are equivalent to shareholding for all companies.

In 2013, PGS ASA recognized net reversal of impairment charges totaling NOK 183.7 million on shares in subsidiaries, mainly due to equity transfers from group companies to Arrow Seismic ASA. In 2012, PGS ASA recognized a net reversal of impairment charges totaling NOK 14.7 million on shares in subsidiaries, which included a NOK 73.3 million impairment charge related to reduced equity in Petroleum Geo-Services Inc. and PGS Australia Pty, and a NOK 88.0 million impairment reversal in Petroleum Geo-Services (UK) Ltd. In 2011 PGS ASA recognized a NOK 421.3 million net impairment charge on shares in subsidiaries, mainly related to reduced equity in Petroleum Geo-Services Inc. and other US subsidiaries.

<sup>(</sup>b) The remaining 99% shareholding is held by PGS Overseas AS.

In 2013 PGS ASA recognized impairment charges on intercompany receivables totaling NOK 541.7 million while in 2012 and 2011, PGS ASA reversed previously recognized impairment charges NOK 201.9 million and NOK 428.1 million, respectively.

As of December 31, 2013, PGS ASA has accumulated impairment charges related to shares in subsidiaries and intercompany receivables totaling NOK 4.6 billion and NOK 1.6 billion, respectively.

For additional information on impairment of shares in subsidiaries and intercompany receivables, see note 1.

### Note 8 - Other Current Assets

Other current assets consist of:

(In millions of NOK)	Decem	ber 31,
	2013	2012
Short term receivables	40.3	20.3
Unrealized gain hedge contracts (note 12)	19.4	14.2
Other	3.1	1.4
Total	62.8	35.9

### Note 9 - Restricted Cash

Restricted cash as of December 31, 2013 and 2012 consists of payroll withholding taxes.

### Note 10 - Shareholders' Equity

Changes in shareholders' equity for the years ended December 31, 2013 and 2012 are as follows:

	F	Paid-in capital			
(In millions of NOK)	Common stock	Own shares, par value	Additional paid-in capital	Other equity	Shareholders' equity
Balance as of December 31, 2011	653.4	(3.7)	2,319.8	7,311.8	10,281.3
Effect of retrospectively adopting NRS6 (revised) and IAS 19R (1)	-	-	-	8.4	8.4
Restated balance as of January 1, 2012	653.4	(3.7)	2,319.8	7,320.2	10,289.7
Acquired treasury shares	-	(2.5)	-	(64.2)	(66.7)
Transferred shares, conversion of convertible notes	-	0.1	-	6.0	6.1
Employee benefit plans	-	3.1	4.8	38.7	46.6
Employee share options recharged to subsidiaries	-	-	24.1	-	24.1
Interest rate swaps (net of tax)	-	-	-	38.3	38.3
Dividend to shareholders	-	-	-	(359.4)	(359.4)
Difference between accrued and paid dividend for 2011	-	-	-	1.1	1.1
Actuarial gains and losses charged to equity (net of tax)	-	-	-	2.9	2.9
Net income	-	-	-	915.0	915.0
Restated balance as of December 31, 2012	653.4	(3.0)	2,348.7	7,898.6	10,897.7
Acquired treasury shares	-	(5.6)	-	(162.5)	(168.1)
Employee benefit plans	-	0.7	6.4	8.7	15.8
Employee share options recharged to subsidiaries	-	-	31.5	-	31.5
Interest rate swaps (net of tax)	-	-	-	33.9	33.9
Actuarial gains and losses charged to equity (net of tax)	-	-	-	(0.3)	(0.3)
Dividend to shareholders	-	-	-	(494.8)	(494.8)
Difference between accrued and paid dividend for 2012	-	-	-	3.8	3.8
Net income	-	-	-	702.2	702.2
Balance as of December 31, 2013	653.4	(7.9)	2,386.6	7,989.6	11,021.7

<sup>(1)</sup> The financial information is restated from retrospectively adopting NRS6 (revised) and IAS19R, see note 18.

As of December 31, 2013 and 2012 share capital is NOK 653,399,991 consisting of 217,799,997 shares of par value NOK 3, each fully paid (see note 25 to the consolidated financial statements).

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All shares have equal voting rights and are entitled to dividends. Distribution of PGS ASA's equity is dependent upon the approval of the shareholders, and the ability to make distributions is limited by certain debt covenants and Norwegian Corporate Law (see note 19 to the consolidated financial statements). A listing of PGS ASA's largest shareholders is provided in note 25 to the consolidated financial statements.

For the year ended December 31, 2013, PGS ASA expect to distribute a dividend of NOK 494.8 million. For the year ended December 31, 2012, PGS ASA distributed a dividend of NOK 355.6 million.

### Note 11 - Debt and Guarantees

### Long-term debt

Long-term debt consists of the following:

(In millions of NOK)	Dece	ember 31,
	2013	2012
Secured:		
Term Ioan B, Libor + 175 Basic points, due 2015	2,860.8	2,628.6
Senior notes, Coupon 7.375%, due 2018	2,736.0	2,513.9
Total	5,596.8	5,142.5
Less current portion	-	-
Less deferred loan costs, net of debt premiums	(45.2)	(31.4)
Total long-term debt	5,551.6	5,111.1

December 31

Undrawn facilities consists of the following:

(In millions of NOK)	Deco	ember 31,
	2013	2012
Secured:		
Revolving credit facility, due 2018 (a)	3,040.0	1,955.3
Unsecured:		
Bank facility (NOK 50 mill)	50.0	50.0
Performance bond	88.8	96.8
Total	3,178.8	2,102.0

<sup>(</sup>a) The Senior secured credit facility was amended and extended in September 2013, the Company may now borrow an additional sum of secured debt: \$1,850 million (NOK 11.2 billion) less the sum of (A) any RCF commitments outstanding, (B) Term Loans outstanding and (C) Permitted vessel financing indebtedness outstanding, either as a term loan or as an RCF. Such potential additional borrowing is not committed (except for secured undrawn debt in the table) but would be secured by the same collateral that secures the Term Loan and borrowings under the existing RCF. As long as the Company stays below a leverage ratio of 3:1 it can incur further unsecured debt.

Aggregate maturities of long-term debt are as follows:

# (In millions of NOK) Year of repayment: 2014 2015 2,860.8 2016 2017 2018 2,736.0 Thereafter Total 5.596.8

### Senior Secured Credit Facility (Term Ioan B and Revolving Credit Facility "RCF")

The Term Loan is an obligation of PGS ASA and PGS Finance Inc. as co-borrowers, is secured by pledges of shares of material subsidiaries and is guaranteed by the same material subsidiaries. The Term Loan has no financial maintenance covenants. Any drawings on the "RCF" would be subject to the same security.

In September 2013, the RCF was increased from \$350 million (NOK 2.1 billion) to \$500 million (NOK 3.0 billion) and the maturity extended to September 2018. The margin on the extended facility changed from LIBOR + 2.25% to an initial margin of LIBOR + 1.75% with utilization fees dependent on the amount drawn (Less than \$150 million (NOK 0.9 billion) + 0.25%, between \$150 million (NOK 0.9 billion) and \$300 million (NOK 1.8 billion) + 0.40%, over \$300 million (NOK 1.8 billion) + 0.60%). The Senior secured credit facility contains financial covenants and negative covenants that restrict the Company in various ways. The facility provides that:

- 1) For the RCF part the total leverage ratio (see note 20 in consolidated financial statements for definitions of leverage ratios) may not exceed 2.75:1.0 (maintenance covenant). The Term Loan has an incurrence test prohibiting the Company from incurring more indebtedness, with certain exceptions, (described in footnote (a) in the table above) if the total leverage is above 3.00:1.0 (rolling last 4 quarters).
- 2) The credit agreement generally requires the Company to apply 50% of excess cash flow to repay outstanding borrowings for financial years when the total leverage ratio exceeds 2.5:1 or the senior secured leverage ratio exceeds 2:1. Excess cash flow for any period is defined as net cash flow provided by operating activities less capital expenditures and scheduled debt services during that period, minus capital income taxes to be paid in the next period and capital expenditure committed in the period but to be paid in future periods. The Company can make optional prepayments to reduce the outstanding principal balance at no penalty.

In addition, the credit agreement and the indenture to the \$450 million (NOK 2.7 billion) Senior notes (described below) restricts or could restrict the Company's ability, among other things, to sell assets without the sales proceeds being reinvested in the business or used to repay debt; incur additional indebtedness or issue preferred shares; prepay interest and principal on our other indebtedness; pay dividends and distributions or repurchase our capital stock; create liens on assets; make investments, loans, guarantees or advances; make acquisitions; engage in mergers or consolidations; enter into sale and leaseback transactions; engage in transactions with affiliates; amend material agreements governing our indebtedness; change our business; enter into agreements that restrict dividends from subsidiaries; and enter into speculative financial derivative agreements.

The RCF had a \$45 million (NOK 273.6 million) sub-limit for issuance of letters of credit, which was increased from \$45 million (NOK 273.6 million) to \$60 million (NOK 364.8 million) in the second amendment to the credit agreement described above. The separate bonding facility of \$30 million (NOK 182.4 million) (for issuance of bid and performance bonds) which was originally included in the sub-limit of the RCF, was discontinued during 2012. Under the RCF, the Company may borrow USD, or any other currency freely available in the London banking market to which the lenders have given prior consent, for working capital and for general corporate purposes. At December 31, 2013 and 2012, the Company had zero outstanding in cash advances, and zero outstanding standby letters of credit under the RCF.

### Senior notes

In December 2012, the Company issued \$150 million (NOK 0.9 billion) add on to the \$300 million (NOK 1.8 billion) Senior notes (issued in November 2011) at a premium of 107.5% of the principal amount. Both the Senior notes issued in 2011 and 2012 will be treated as a single class of debt securities under the same indenture. The Senior notes are senior obligations of the company and rank equally in right of payment with all other existing and future senior debt. The Senior notes have an incurrence test prohibiting the Company from incurring more indebtedness, with certain exceptions, if the consolidated interest coverage ratio is less than 2.0:1.0. At any time prior to December 15, 2015, the Company may redeem the Senior notes at its option, in whole or in part, at a redemption price equal to 100% of the principal amount thereof plus the applicable premium as of, and accrued and unpaid interest to, the date of redemption. Applicable premium means the greater of (i) 1.0% of the principal amount of the Senior notes; and (ii) the excess of (a) the present value at such redemption date of the redemption price of the Senior notes at December 15, 2015 (such redemption price being set forth in the table appearing below plus all required interest payments due on the Senior notes during the period from such redemption date through December 15, 2015 (excluding accrued but unpaid interest), computed using a discount rate equal to the treasury rate as of such redemption date plus 50 basis points, over (b) the principal amount of the Senior notes, if greater. The Senior notes are also redeemable at the Company's option on or after December 15, 2015, in whole or in part, at the redemption prices (expressed as percentages of principal amount) set forth below, plus accrued and unpaid interest thereon to the applicable redemption date, if redeemed during the 12-month period beginning December 15 of the years indicated below:

Year	Percentage
2015	103.69%
2016	101.84%
2017 and thereafter	100.00%

### **Convertible notes**

In 2012, the Company redeemed, at its option, the remaining Convertible notes for a nominal amount \$190.6 million (NOK 1.2 billion) at an average price of 100.51%.

### Letters of credit and guarantees

PGS ASA had aggregate outstanding letters of credit and related types of guarantees (including counter guarantees), not reflected in the accompanying financial statements, of \$5.9 million (NOK 35.3 million) and \$3.6 million (NOK 20.1 million) as of December 31, 2013 and 2012, respectively.

### Note 12 - Financial Instruments

### Fair values of financial instruments

The carrying amounts of cash and cash equivalents, restricted cash, accounts receivable, accrued revenues and other receivables, other current assets, accounts payable and accrued expenses approximate their respective fair values because of the short maturities of those instruments.

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PGS ASA disclose the hierarchy of how fair value is determined for financial instruments recorded at fair value in the financial statements as follows:

Level 1: quoted prices (unadjusted) in active markets for identical assets and liabilities.

Level 2: assets and liabilities whose values are based on quoted prices in markets that are not active or model inputs that are observable either directly or indirectly.

Level 3: techniques for which all inputs which have a significant effect on the recorded fair value that is not based on observable market data.

The fair values of the long-term debt instruments, forward exchange contracts and interest rate swaps are estimated using quotes obtained from dealers in such financial instruments or latest quoted prices or indexes at Reuters or Bloomberg. Where market prices are not observed or quotes from dealers are not obtained, an indirect method is used by use of implied credit spread from debt instrument with similar risk characteristics.

The carrying amounts, estimated fair values of debt and derivatives instruments including how fair value is determined are summarized as follows:

	December 31, 2013		De	ecember 31, 2012	2	
(In millions of NOK)	Carrying amounts	Fair values	Level	Carrying amounts	Fair values	Level
Financial assets measured at fair value						
Forward exchange contracts used for hedging	0.6	0.6	2	7.3	7.3	2
Other foreign exchange contracts	18.8	18.8	2	7.3	7.3	2
Financial liabilities measured at fair value						
Foreign exchange contracts used for hedging	(9.8)	(9.8)	2	-	-	-
Other foreign exchange contracts	(3.7)	(3.7)	2	(1.7)	(1.7)	2
Interest rate swaps used for hedging	-	-	2	(100.7)	(100.7)	2
Interest rate swaps not hedge accounted	(50.6)	(50.6)	2	-	-	
Financial liabilities not measured at fair value						
Debt with fixed interest rate	(2,736.0)	(2,932.4)	2	(2,514.0)	(2,669.0)	2
Debt with variable interest rate	(2,860.8)	(2,878.7)	2	(2,628.5)	(2,574.6)	2

### Interest rate exposure

PGS ASA is subject to interest rate risk on debt, including finance leases. The risk is managed by using a combination of fixed -and variable rate debt, together with interest rate swaps, where appropriate, to fix or lower the borrowing costs.

	December 31, 2013 December 3		31, 2012	
	,	Weighted average		Weighted average
(In millions of NOK)	Notional amounts	interest rate	Notional amounts	interest rate
Debt at fixed interest rate	2,736.0	7.38%	2,514.0	7.38%
Debt at variable interest rate based on US dollar plus a margin	2,860.8	1.92%	2,628.5	2.00%
Variable interest rate debt with interest fixed	1,824.0	3.50%	1,676.0	3.50%

### Foreign exchange rate exposure

PGS ASA and its subsidiaries is exposed to currency fluctuation due to the effects of a predominantly USD based revenue stream, while the companies operating expenses and capital expenditures are mainly denominated in USD, GBP, NOK and EUR. PGS ASA maintains a foreign currency risk management strategy that uses foreign currency exchange contracts to protect against fluctuations in cash flow caused by volatility in currency exchange rates. PGS ASA had open forward contracts to buy and sell GBP, NOK, BRL, JPY and GBP, NOK, SGD, BRL and EUR at December 31, 2013 and 2012, respectively.

### Note 13 - Other Long-Term Liabilities

Other long-term liabilities consist of:

	Decen	nber 31,
(In millions of NOK)	2013	2012
Unrealized loss hedge contracts (note 12)	25.0	100.6
Pension liability (note 14)	12.6	9.2
Other long-term liabilities	-	2.7
Total	37.6	112.5

### **Note 14 - Pension Obligations**

PGS ASA is required to maintain a pension plan in accordance with the Norwegian Pension Benefit Act. The pension plans of PGS ASA comply with the requirements set forth in the Norwegian Pension Benefit Act.

### Defined benefit plan

PGS ASA sponsors a defined benefit pension plan for certain Norwegian employees, in total 6 participants. This plan is funded through contributions to an insurance company and the insurance company undertakes the responsibility to pay the pension benefits. It is PGS ASA's general practice to fund amounts to this defined benefit plan in amounts sufficient to meet applicable statutory requirements. As of January 1, 2005, the defined benefit plan was closed for further entrants and a new defined contribution plan was established for new employees (see section below).

The components of net periodic pension cost for PGS ASA's defined benefit pension plan is summarized as follows:

(In millions of NOK)		Year ended December 31,			
	2013	2012	2011		
Service cost	2.3	2.8	2.5		
Interest cost	0.7	0.5	0.6		
Expected return on plan assets	(0.7)	(0.5)	(0.7)		
Amortization of actuarial gain	-	(0.9)	(1.4)		
Administrative costs	0.1	0.1	0.1		
Payroll tax	0.4	0.4	0.4		
Net periodic pension cost	2.8	2.4	1.5		

The aggregate funded status of the plan and amounts recognized in Other long-term liabilities (see note 13) is as follows:

(In millions of NOK)	Decen	nber 31,
	2013	2012
Projected benefit obligations	20.1	18.9
Fair value of plan assets	9.1	10.9
Funded status	11.0	8.0
Accrued payroll tax	1.6	1.2
Net pension liability (a)	12.6	9.2

(a) In 2014 PGS ASA decided to terminate the Norwegian defined benefit plan. See note 31 in the consolidated financial statements for further information.

The accumulated actuarial gains recognized in other equity are as follows:

(In millions of NOK)	Decen	nber 31,
	2013	2012
Accumulated actuarial gains	15.4	15.7
Deferred tax	(4.4)	(4.4)
Accumulated actuarial gains recognized towards other equity	11.0	11.3

Assumptions used to determine benefit obligations:

	Decer	December 31,	
	2013	2012	
Discount rate	4.0%	3.8%	
Return on plan assets	4.0%	4.0%	
Compensation increase	3.5%	3.0%	
Annual adjustment to pensions	0.6%	0.2%	

### Defined contribution plan

As described above under "Defined Benefit Plan", as of January 1, 2005, PGS ASA closed the defined benefit plan for further entrants and a new defined contribution plan was established for new employees. PGS ASA's contributions to this plan for the years ended December 31, 2013 and 2012 was NOK 1.7 million and NOK 1.4 million, respectively.

### Note 15 - Commitments

PGS ASA's operating lease commitments relate to estimated office rent from group companies, and expire in 2024. Future minimum payments related to non-cancelable operating leases existing at December 31, 2013 are as follows:

(In millions of NOK)	December 31, 2013 (a)
2014	1.8
2015	1.8
2016	1.8
2017	1.8
2018	1.8
Thereafter	9.3
Total	18.3

<sup>(</sup>a) Includes estimated office lease for the periods displayed.

Rental expense for operating leases, including leases with terms of less than one year, was NOK 4.4 million, NOK 9.8 million and NOK 8.3 million for the years ended December 31, 2013, 2012 and 2011, respectively.

### Note 16 - Accrued Expenses and Other Short-Term Liabilities

Accrued expenses and other short-term liabilities consist of the following:

	December 31,	
(In millions of NOK)	2013	2012
Accrued unrealized loss on hedging (note 12)	39.1	1.8
Accrued employee benefits	15.8	27.4
Foreign taxes	13.4	11.1
Accrued interest expense	9.0	8.2
Account payables	9.4	6.2
Other	2.5	17.4
Total	89.2	72.1

# Note 17 – Salaries and Other Personnel Costs, Number of Employees, and Remuneration to the Board of Directors, Executive Officers and Auditors

Salary and social expenses that are included in cost of sales and selling and general and administrative costs consist of:

(In millions of NOK)	Y	Year ended December 31,		
	2013	2012	2011	
Salaries and bonus	52.9	70.2	54.0	
Social security	4.5	10.9	8.0	
Pension	4.5	5.3	2.8	
Other benefits	6.6	3.5	4.6	
Total	68.5	89.9	69.4	

As of December 31, 2013, PGS ASA had 30 full time employees. Average labor years for the years ended December 31, 2013 and 2012 were 31 and 33, respectively.

### Compensation to Board of Directors, CEO and Other Executive Officers

For a full listing of Board of Directors, CEO and Other Executive Officers and their compensation, see note 28 to the consolidated financial statements.

PGS ASA has not provided loans or guarantees to the Board of Directors, CEO or Other Executive Officers as of December 31, 2013.

### Share option programs

In the 2008, 2009, 2010 and 2011 PGS ASA established employee share option programs and granted options to certain key employees. In 2012 and 2013, PGS ASA established Restricted Stock Unit programs (RSU) which requires the participant's continued employment with PGS ASA and is settled through receipt of shares in PGS ASA three years after grant. See note 27 to the consolidated financial statements for further information on the share option programs and RSU.

For the years ended December 31, 2013, 2012 and 2011, PGS ASA recorded compensation costs of NOK 6.4 million, NOK 4.8 million and NOK 4.4 million, respectively, recognized in additional paid-in capital. Total net unrecognized compensation cost as of December 31, 2013 was NOK 12.1 million related to nonvested share-based options and RSU's, which is expected to be recognized over a period of 2.5 years.

In 2013 and 2012, 221,829 and 985,535 options, respectively, were exercised under the PGS Group share option programs. PGS ASA used own treasury shares to facilitate these transactions and recognized a charge of NOK 9.4 million and NOK 41.8 million in shareholders' equity in 2013 and 2012, respectively. Share option costs related to non-PGS ASA employees are recharged to subsidiaries.

### Remuneration of auditor

Fees for audit and other services provided by PGS ASA's auditor are as follows (exclusive VAT and inclusive out of pocket expenses):

	Υ	Year ended December 31,		
(In millions of NOK)	2013	2012	2011	
Audit fees	4.2	4.7	3.3	
Other attestation services	0.2	-	2.0	
Fees for tax services (a)	0.4	0.1	-	
All other fees	0.2	0.1	0.2	
Total	5.0	4.9	5.5	

<sup>(</sup>a) Include fees for tax filing services and other tax assistance.

### Note 18 - Change in Accounting Policy

The Company adopted NRS6 Pension cost (revised) and IAS19R Employee Benefits (revised 2011) effective for annual periods beginning on or after January 1, 2013. The standard is applied retrospectively. The main amendments impacting the Company are: (i) removal of the corridor mechanism such that actuarial gains and losses are recognized immediately towards other equity, and (ii) the expected returns on plan assets must equal the discount rate on the projected benefit obligation.

The following table presents the impact of applying the standard retrospectively. The impact to the statements of operations is insignificant and, as such, the results from operations of prior periods are not restated.

	December 31,	
(In millions of NOK)	2012	2011
Other long-term liabilities as previously reported	128.2	145.4
Change in pension liability from recognizing unrecognized actuarial gains	(15.7)	(11.7)
Restated other long-term liabilities	112.5	133.7
Deferred tax assets as previously reported	753.3	802.8
Tax effect of change in pension liability	(4.4)	(3.3)
Restated deferred tax assets	748.9	799.5
Other equity as previously reported	7,887.3	7,311.8
Effect on Other equity	11.3	8.4
Restated other equity	7,898.6	7,320.2

### **AUDITOR'S REPORT**



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To the Annual Shareholders' Meeting of Petroleum Geo-Services ASA

### INDEPENDENT AUDITOR'S REPORT

### Report on the Financial Statements

We have audited the accompanying financial statements of Petroleum Geo-Services ASA, which comprise the financial statements of the parent company Petroleum Geo-Services ASA and the consolidated financial statements of Petroleum Geo-Services ASA and its subsidiaries. The parent company's financial statements comprise of the statement of financial position as at 31 December 2013, and statement of operations and statement of cash flows for the year then ended and a summary of significant accounting policies and other explanatory information. The consolidated financial statements comprise the statement of financial position as at 31 December 2013, and the statement of operations, the statement of comprehensive income, statement of changes in shareholders' equity and statement of cash flows for the year then ended, and a summary of significant accounting policies and other explanatory information.

The Board of Directors and the Chief Executive Officer's Responsibility for the Financial Statements

The Board of Directors and the Chief Executive Officer are responsible for the preparation and fair presentation of the parent company financial statements in accordance with the Norwegian Accounting Act and accounting standards and practices generally accepted in Norway and for the consolidated financial statements in accordance with International Financial Reporting Standards as adopted by the EU, and for such internal control as the Board of Directors and the Chief Executive Officer determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

### Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with laws, regulations, and auditing standards and practices generally accepted in Norway, including International Standards on Auditing. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

KPMG AS, a Norwegian member firm of the KPMG network of independen member firms affiliated with KPMG International Cooperative ("KPMG International"), a Swiss entity

Statsautoriserte revisorer - medlemmer av Den norske Revisorforening

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Petroleum Geo-Services ASA

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion on the separate financial statements

In our opinion, the parent company's financial statements are prepared in accordance with the law and regulations and give a true and fair view of the financial position of Petroleum Geo-Services ASA as at 31 December 2013, and of its financial performance and its cash flows for the year then ended in accordance with the Norwegian Accounting Act and accounting standards and practices generally accepted in Norway.

Opinion on the consolidated financial statements

In our opinion, the consolidated financial statements are prepared in accordance with the law and regulations and give a true and fair view of the financial position of Petroleum Geo-Services ASA and its subsidiaries as at 31 December 2013, and of its financial performance and its cash flows for the year then ended in accordance with International Financial Reporting Standards as adopted by the EU.

### Report on Other Legal and Regulatory Requirements

Opinion on the Board of Directors' report and the statements on Corporate Governance and Corporate Social Responsibility

Based on our audit of the financial statements as described above, it is our opinion that the information presented in the Board of Directors' report and in the statements on Corporate Governance and Corporate Social Responsibility concerning the financial statements, the going concern assumption and the proposal for the allocation of the profit is consistent with the financial statements and complies with the law and regulations.

Opinion on Accounting Registration and Documentation

Based on our audit of the financial statements as described above, and control procedures, we have considered necessary in accordance with the International Standard on Assurance Engagements (ISAE) 3000, «Assurance Engagements Other than Audits or Reviews of Historical Financial Information», it is our opinion that the management has fulfilled its duty to produce a proper and clearly set out registration and documentation of the company's accounting information in accordance with the law and bookkeeping standards and practices generally accepted in Norway.

Oslo, 19 March 2014 KPMG AS

Arne Frogner

State authorised public accountant

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# OTHER OFFICES

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The dual-sensor **GeoStreamer technology** has proved its ability
to reveal reservoir details and
properties of unrivalled resolution

