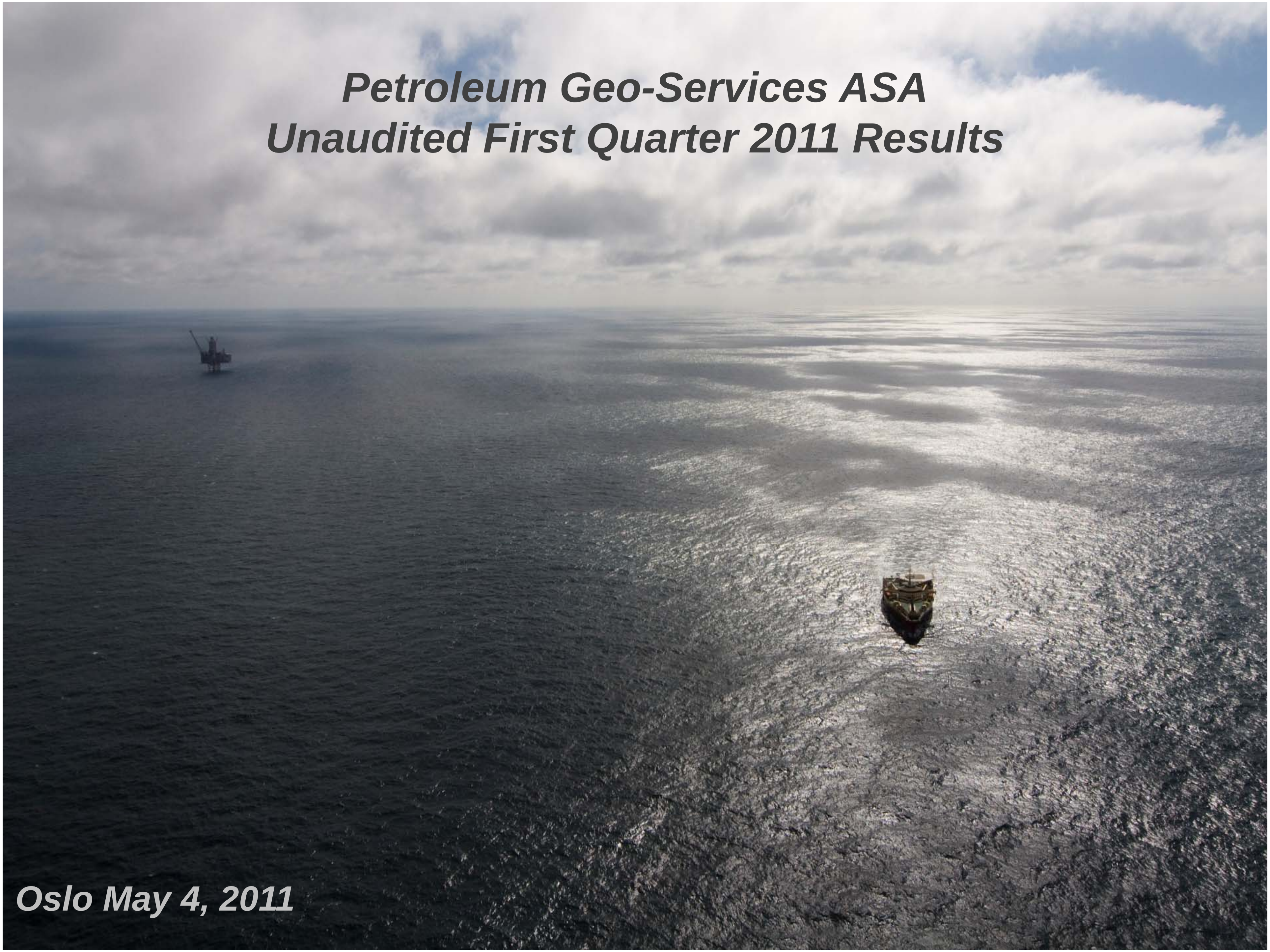
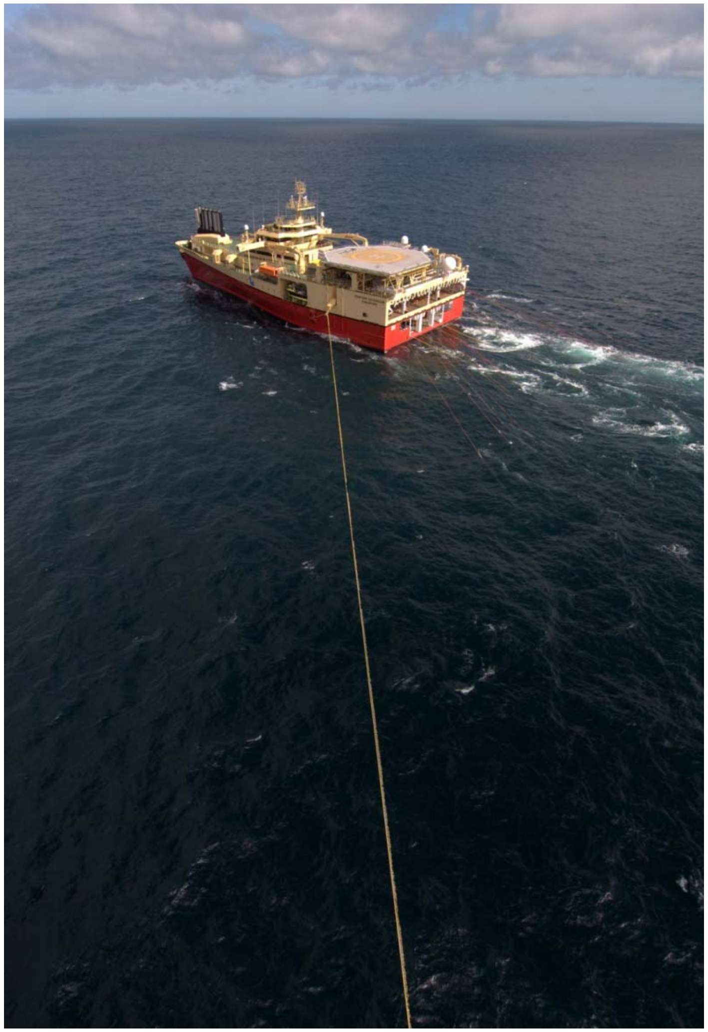

Petroleum Geo-Services ASA
Unaudited First Quarter 2011 Results
Oslo May 4, 2011

Cautionary Statement

- This presentation contains forward looking information
- Forward looking information is based on management assumptions and analyses
- Actual experience may differ, and those differences may be material
- Forward looking information is subject to significant uncertainties and risks as they relate to events and/or circumstances in the future
- This presentation must be read in conjunction with the press release for the Q1 2011 results and the disclosures therein

Positioned for Growth



- E&P spending increase driven by high oil price
- Bid activity gradually increasing
- GeoStreamer® maintains technological leadership
- Ramform productivity leadership sustained
- Robust product and technology pipeline
  - PGS hyperBeam™ and GeoStreamer processing
- Contract signed for Ramform W-class with Mitsubishi Heavy Industries

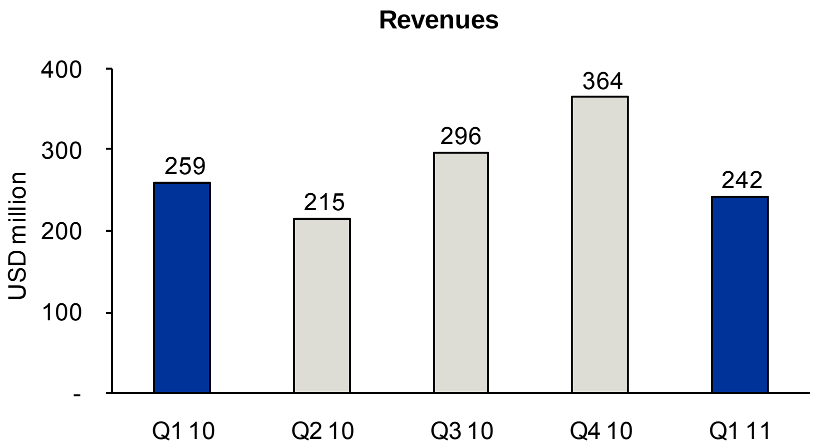
Technology and Productivity Leadership

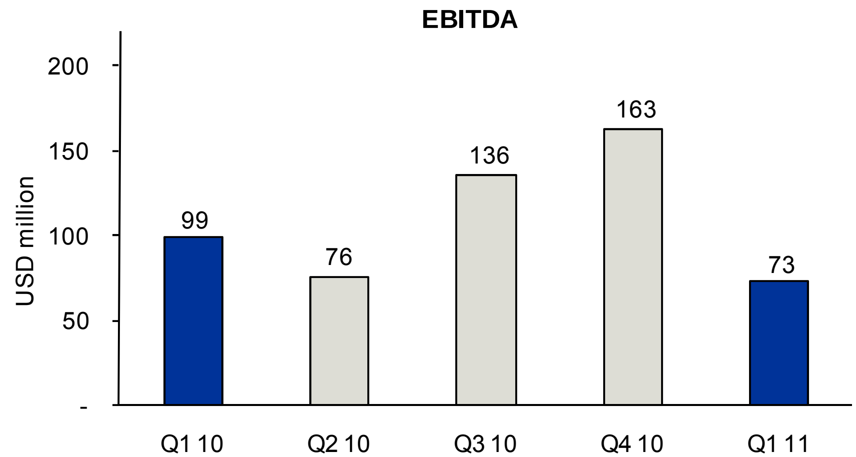
Order Book increase reflects PGS Differentiation

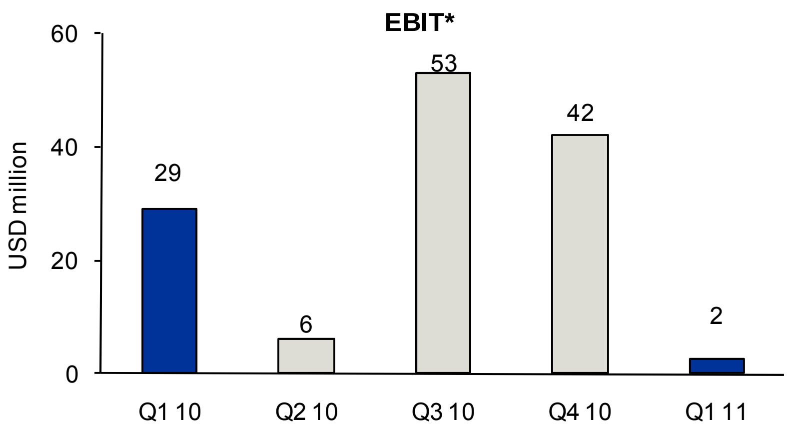
- Q1 financial performance:
  - EBITDA of USD 72.9 million
  - Marine contract EBIT margin of 12%
  - Weaker MultiClient sales
  - Increased fuel cost and a weaker USD
- Strong operational performance
- Y-o-Y increase in order book of 48%
- GeoStreamer momentum continues
- Full year EBITDA of approximately $500 million expected

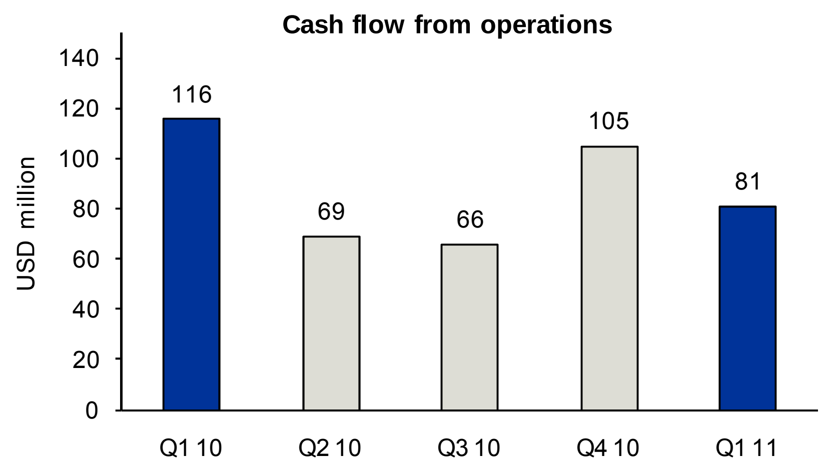
Positioned for expected growth in demand

Financial Summary



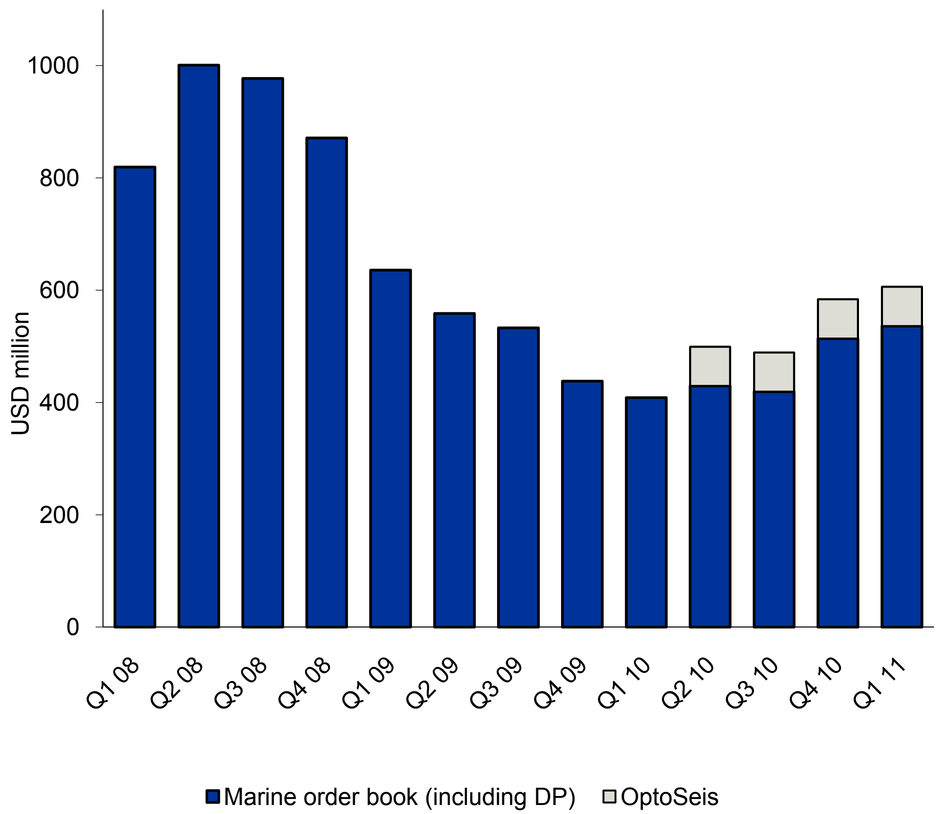






Graphs show numbers for PGS continuing business. Figures for prior periods has been restated due to change in accounting policy
*Excluding reversal of impairment of USD 1.3 million in Q4 2010 and excluding impairments of USD 79.9 million in Q3 2010 and USD 0.5 million in Q1 2010.
EBITDA, when used by the Company, means income before income tax expense (benefit) less, currency exchange gain (loss), other financial expense, other financial income, interest expense, income (loss) from associated companies, impairments of long-lived assets and depreciation and amortization.

Visibility and Momentum



- Order book of USD 606 million
  - Q3: 65% booked
  - Q4: 40% booked
  - Strong booking continues in April
- GeoStreamer momentum continues
- Good short term visibility

Achieving GeoStreamer price premium

Petroleum Geo-Services ASA

Financials

Unaudited First Quarter 2011 Results

Consolidated Statements of Operations Summary

USD million (except per share data)	Quarter ended March 31 2011	2010	% change	Full year 2010
Revenues	242.2	259.4	-7 %	1 135.1
EBITDA*	72.9	99.4	-27 %	475.4
Operating profit (EBIT) excluding impairments**	2.5	30.0	-92 %	130.7
Operating profit (EBIT)	2.5	29.5	-92 %	51.6
Net financial items	(10.8)	(19.3)	44 %	(60.0)
Income (loss) before income tax expense	(8.3)	10.2	n/a	(8.4)
Income tax expense (benefit)	0.6	4.9	-87 %	13.9
Net income to equity holders	(8.9)	11.4	n/a	(13.8)
EPS basic	($0.04)	$0.06	n/a	($0.07)
EPS diluted	($0.04)	$0.06	n/a	($0.07)
EBITDA margin*	30.1 %	38.3 %		41.9 %
EBIT margin**	1.0 %	11.6 %		11.5 %

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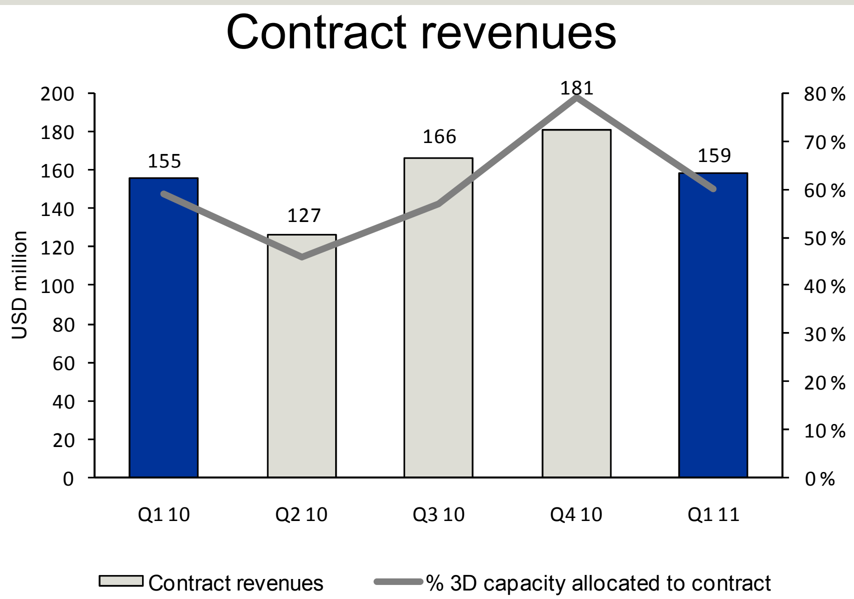
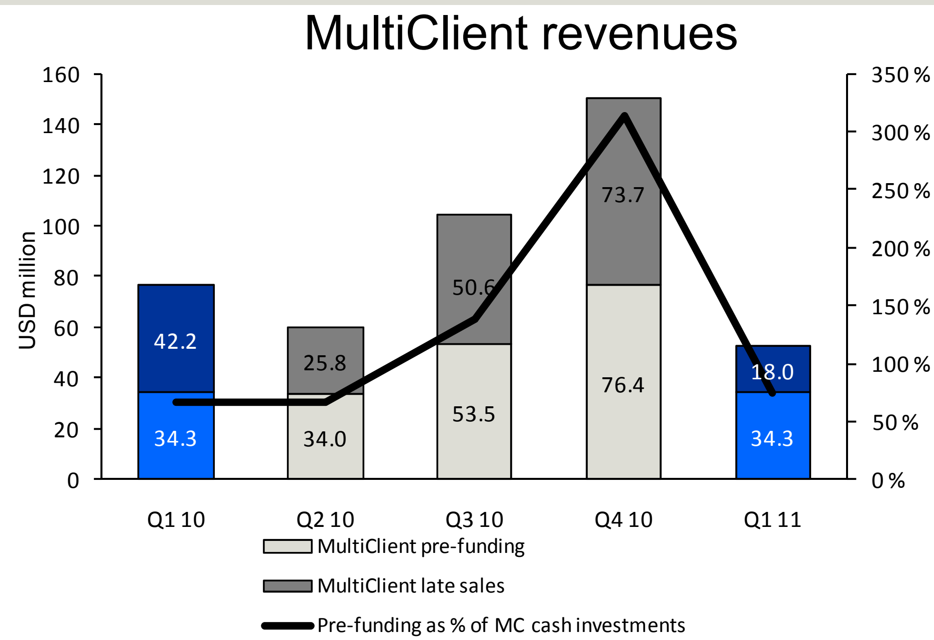
Q1 Highlights

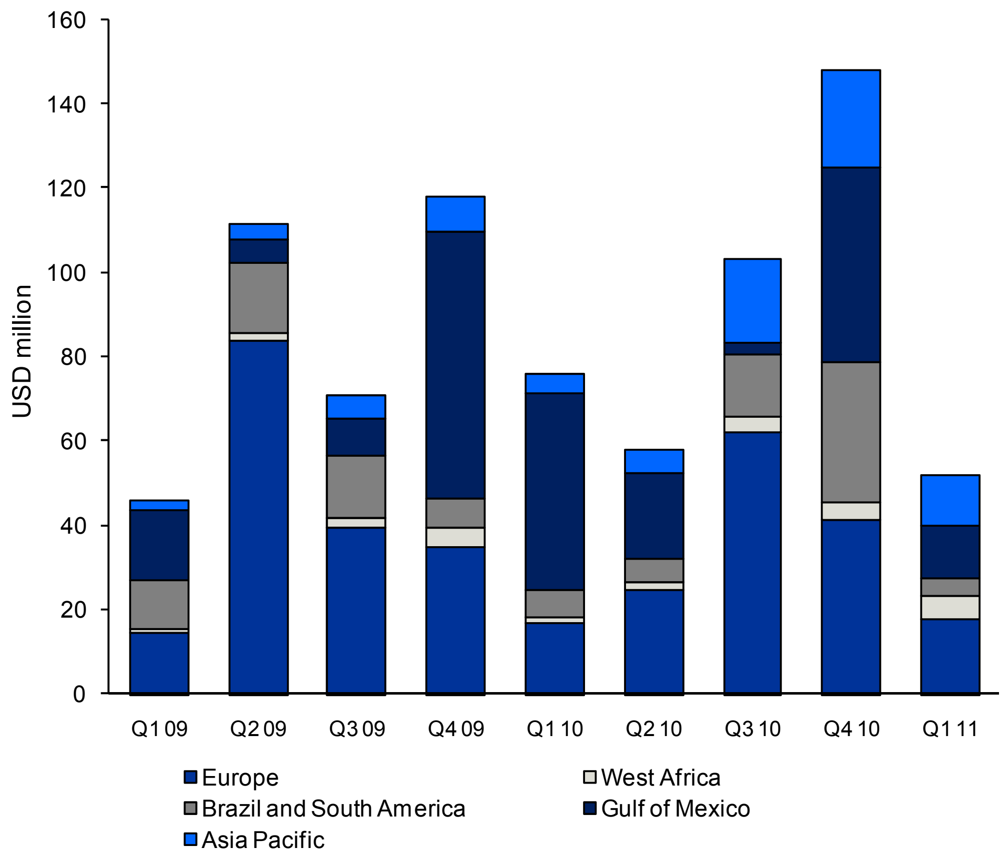




- Low MultiClient late sales primarily related to Asia Pacific and Europe
  - Prefunding seasonally lower due to acquisition in regions with generally less prefunding
- Marine Contract EBIT margin of 12%, up from 2% in Q4 '10, but down from 22% in Q1 '10
  - Profitability negatively impacted by more steaming and yard time, market driven cost increase and unrest in the Middle East
- External Data Processing revenues of USD 27.2 million, compared to USD 23.2 million in Q1 '10

MultiClient Revenues per Region

Pre-funding and Late Sales Revenues Combined

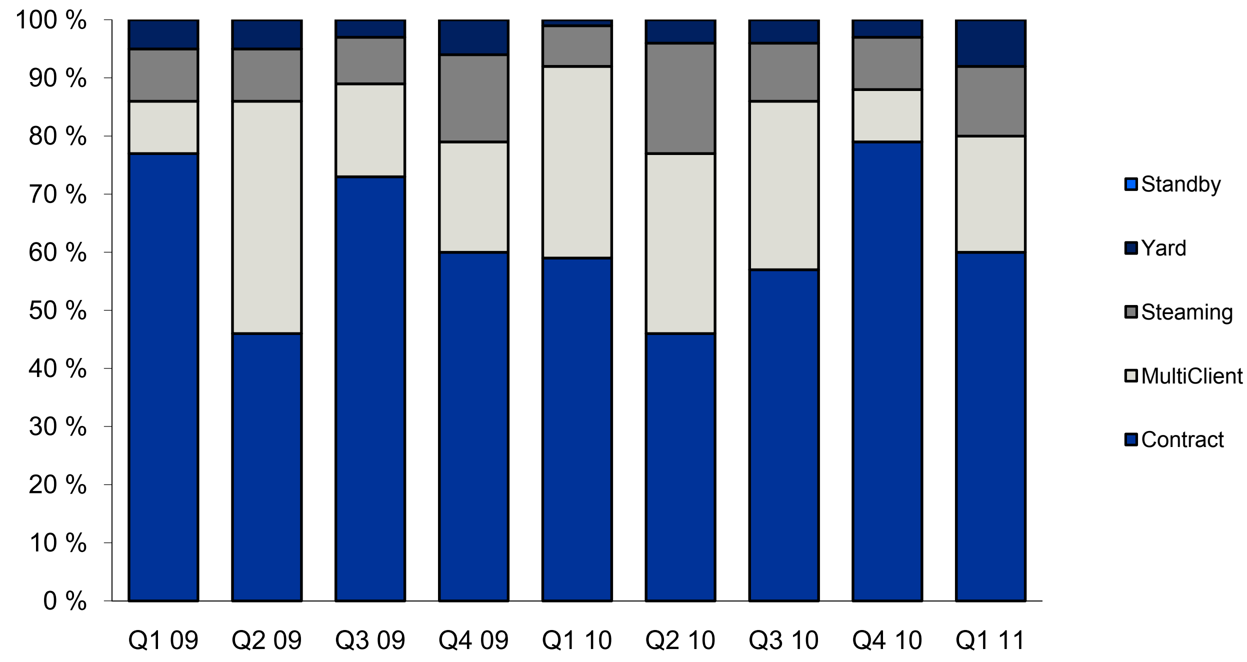


- MultiClient Q1 revenues impacted by typical seasonal variations expected to be recovered through the year
- Majority of Australian Aurora MC3D revenues to be recognized during Q2
- Early start of North Sea MC3D season with excellent operational performance
- Pre-funding for the full year 2011 expected to be 90-100% of capitalized cash investment

Full year expectation for MultiClient sales is unchanged

Vessel Utilization

Seismic Streamer 3D Fleet Activity in Streamer Months



Active vessel time down to 80% primarily due to high yard activity (8%)

Key Operational Figures

USD million	2011 Q1	2010 Q4	2010 Q3	2010 Q2	2010 Q1
Contract revenues	158.6	180.6	166.3	126.8	155.4
MultiClient Pre-funding	34.3	76.4	53.5	34.0	34.3
MultiClient Late sales	18.0	73.7	50.6	25.8	42.2
Data Processing	27.2	30.8	24.6	24.9	23.2
Other	4.0	2.9	1.4	3.5	4.3
Total Revenues	**242.2**	**364.4**	**296.4**	**214.9**	**259.4**
Operating cost	(169.3)	(201.1)	(160.0)	(138.5)	(160.0)
EBITDA	**72.9**	**163.3**	**136.4**	**76.4**	**99.4**
Depreciation	(37.7)	(43.7)	(33.9)	(36.6)	(32.9)
MultiClient amortization	(32.7)	(77.7)	(49.3)	(34.1)	(36.5)
EBIT*	**2.5**	**41.9**	**53.2**	**5.7**	**30.0**
CAPEX	(81.3)	(61.0)	(56.9)	(52.7)	(48.0)
Cash investment in MultiClient	(45.6)	(24.3)	(38.6)	(51.7)	(52.1)
Order book	**606**	**584**	**489**	**499**	**409**

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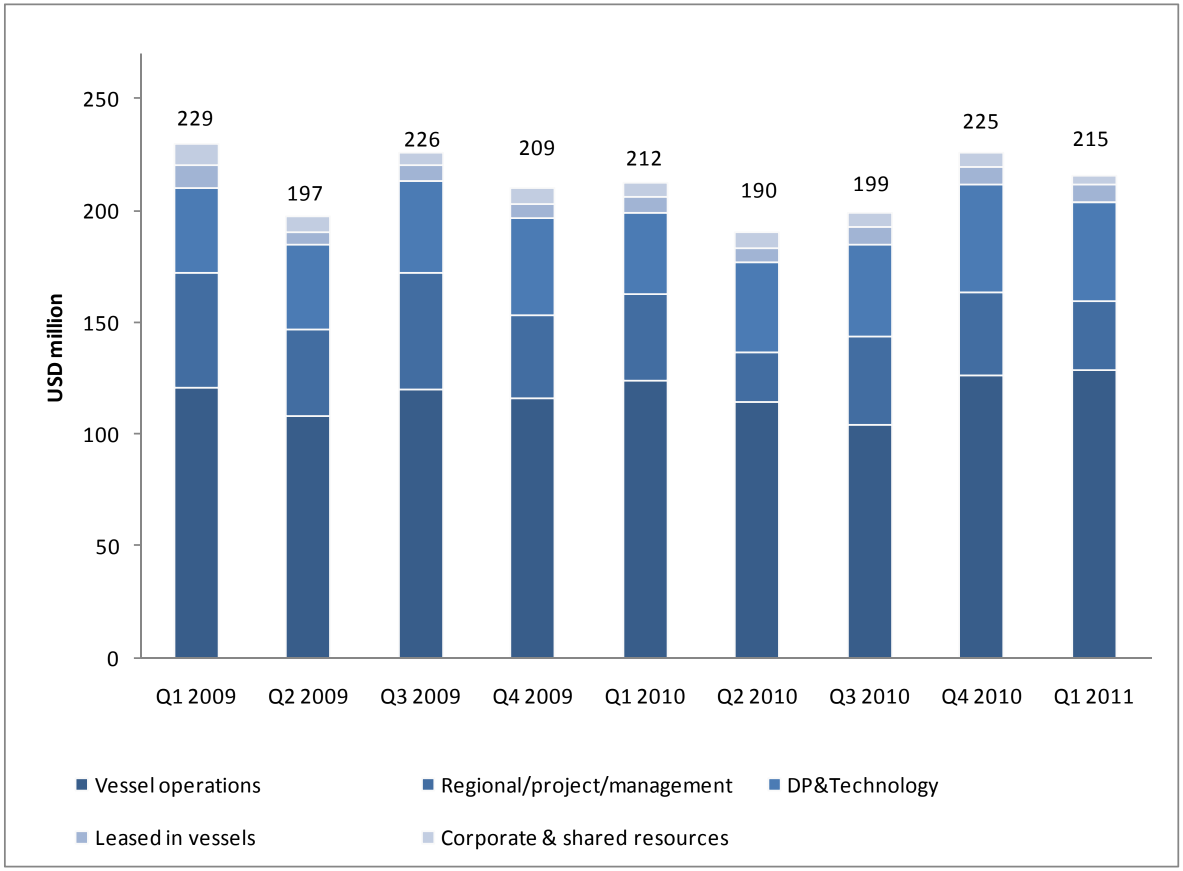
Group Cost* Development



- Q1 cost impacted by increasing fuel prices and a weaker USD
- Capitalization of cost for major vessel overhaul has a positive impact due to higher yard activity
- Project specific cost lower than Q4

*Amounts show the sum of operating cost and capitalized MultiClient cash investment.

2009 figures are not adjusted for revised accounting policy

Change in accounting principle for yard stay (periodic maintenance)

- Change of accounting policy for major vessel overhauls implemented 1 January 2011 with comparable figures for 2010 restated
- Following the change, all costs relating to major vessel overhauls are capitalized and depreciated over three to five years
- The former policy was to expense substantially all such costs when incurred
- Change is made to:
  - Better reflect the economic reality
  - Reduce volatility and more correctly allocate cost to projects and product lines
  - Align to dominant IFRS accounting practice
- Estimated impact of change on full year 2011
  - USD 20-30 million increase of both EBITDA and capital expenditures
  - USD 15 million increase of depreciation expense

CAPEX effect of new builds and yard accounting policy

- Contract with Mitsubishi Heavy Industries Ltd. signed in April 2011
  - Two firm vessels for delivery in 1H and 2H 2013, respectively
  - Two optional vessels for delivery 1H and 2H 2015, respectively, with option exercise by April 2012
  - USD 250 million estimated full cost of vessels with seismic equiment (excluding capitalization of interest)
  - Payments under the yard contract, excluding seismic equipment, is payable on five milestones with 50% of contract amount at delivery

- Estimated 2011 CAPEX including new builds

– 2011 CAPEX on new builds	USD 35 – 55 million
– 2011 Impact of accounting change	USD 20 – 30 million
– Initial 2011 CAPEX guidance	Approximately USD 185 million
– Revised 2011 CAPEX guidance	USD 250 – 265 million

Consolidated Statements of Cash Flows Summary

USD million	Quarter ended March 31 2011	2010	December 31 2010
Cash provided by operating act.	81.0	115.6	355.5
Investment in MultiClient library	(45.6)	(52.1)	(166.7)
Capital expenditures	(68.3)	(48.0)	(223.5)
Other investing activities	(73.6)	219.7	248.8
Financing activities	(8.8)	(10.6)	92.5
Net increase (decr.) in cash and cash equiv.	**(115.3)**	**224.6**	**306.6**
Cash and cash equiv. at beginning of period	432.6	126.0	126.0
Cash and cash equiv. at end of period	**317.3**	**350.6**	**432.6**

- Q1 improvement (reduction) of working capital benefiting cash provided by operating activities
- Other investing activities includes a USD 42.9 million convertible loan to Seabird Exploration and a USD 29.0 million restricted deposit to replace bank guarantee for ongoing court case relating to ISS in Brazil
- PGS sold “available for sale” shares for USD 4.6 million in Q1. Remaining portfolio value is $32.6 million

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Consolidated Statements of Financial Position - Key Figures

USD million	Quarter ended March 31 2011	Quarter ended March 31 2010	December 31 2010
Total assets	2 973.4	2 881.3	3 038.0
MultiClient Library	336.0	321.4	310.8
Shareholders' equity	1 754.7	1 504.9	1 758.3
Cash and cash equiv.	317.3	350.6	432.6
Restricted cash	108.0	31.4	71.2
Liquidity reserve	663.7	700.6	777.9
Gross interest bearing debt *	793.4	919.3	790.2
Net interest bearing debt	315.7	534.4	279.1

*Includes capital lease agreements

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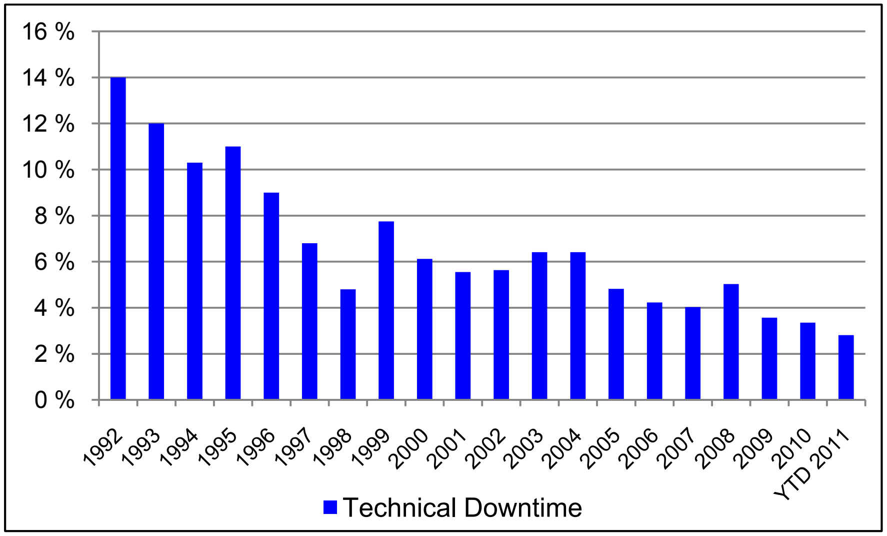
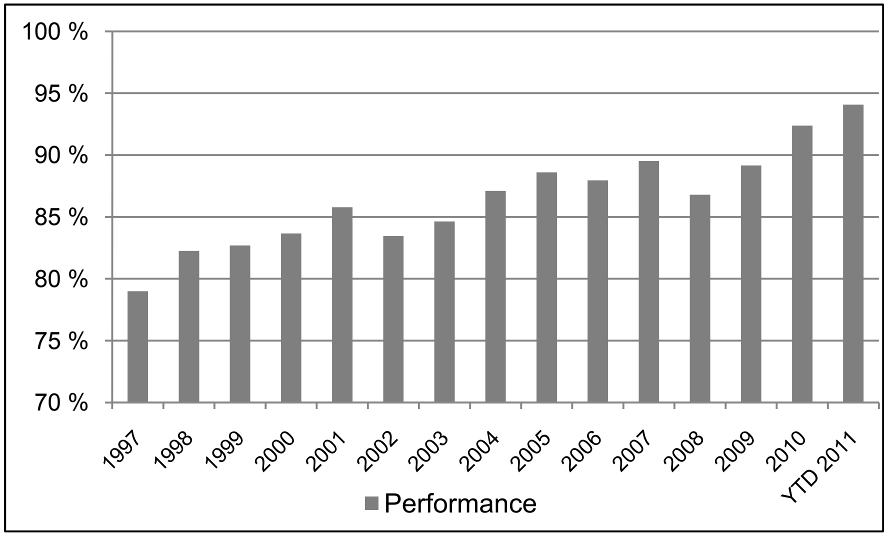
GeoStreamer meets W-Class

Operations update

Continuous Strong fleet performance





- **Continuous focus on reducing technical downtime**
- **Strong development in performance**
- **Strong operations performance driven by GeoStreamer**

Unmatched fleet performance

W-class and GeoStreamer to deliver further sustainable improvements

On Track Towards Full GeoStreamer Deployment

- Current GeoStreamer operations

- 3D
  - *Atlantic Explorer*
    - (6 streamers*)
  - *Ramform Challenger*
    - (10 streamers*)
  - *Ramform Valiant*
    - (12 streamers*)
  - *Ramform Explorer*
    - (10 streamers*)
  - *Ramform Viking*
    - *(12 streamers*)*
- 2D
  - *Sanco Spirit*
  - *Harrier Explorer*

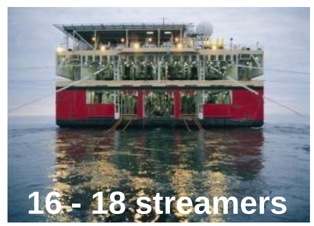
* In exploration mode with 100 meter streamer separation

- Planned GeoStreamer rollout

- Additional 3D vessels
  - *PGS Apollo (10 Streamers)* scheduled for GeoStreamer upgrade Q2 2011, "*ready for North Sea season"*
  - *Ramform Vanguard (12 streamers*)* scheduled for GeoStreamer upgrade H1 2012
  - Ramform W 1, (16 streamers) Q1 2013
  - Ramform W 2, (16 streamers) Q4 2013

Strong demand drives GeoStreamer rollout

Continuously Ahead of Competition

	1992 - 1996	1998 - 1999	2007 - 2009	2012 - 2014
Competition				
PGS				

Improved safety and cost efficiency

More streamers, longer streamers and wider & denser streamer spreads

Optimized to meet HD3D market growth and GeoStreamer demand

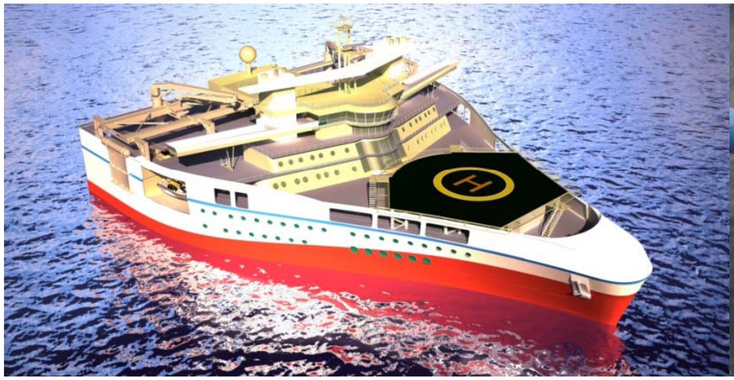
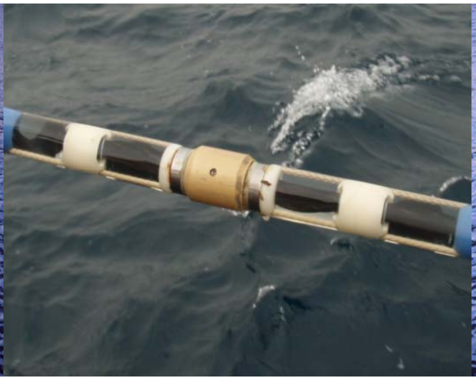
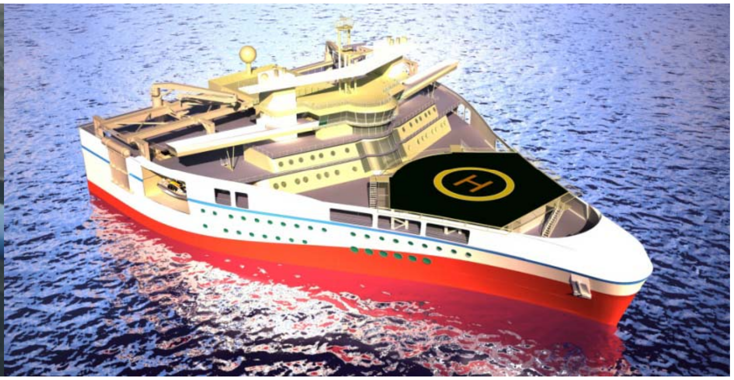
Update on yard

- Final contract between PGS and Mitsubishi Heavy Industries signed 14th of April 2011
- No major changes versus tender specification
- Delivery for vessels 1 and 2 H1/2013 and H2/2013
- Options for vessels 3 and 4 to be declared by April 14th 2012, for delivery in 2015

Optimized for Safe and Efficient GeoStreamer Production

- Unmatched Streamer handling
  - Wide back deck enabling deployment of multiple streamers simultaneously
  - Safe and fast deployment and recovery in harsh weather, extending the weather windows for production
  - Separate streamer and lead/in winches – significant reduction in re-configuration time (faster mobilization and de-mobilization)
  - 24 streamer winches
  - 2 stern operated workboats for more efficient in-sea maintenance of streamer spread and other peripheral in-sea equipment

- Safe and efficient source deployment and recovery
  - Separate boom and winch for each source array – faster operations
  - Hands off back deck

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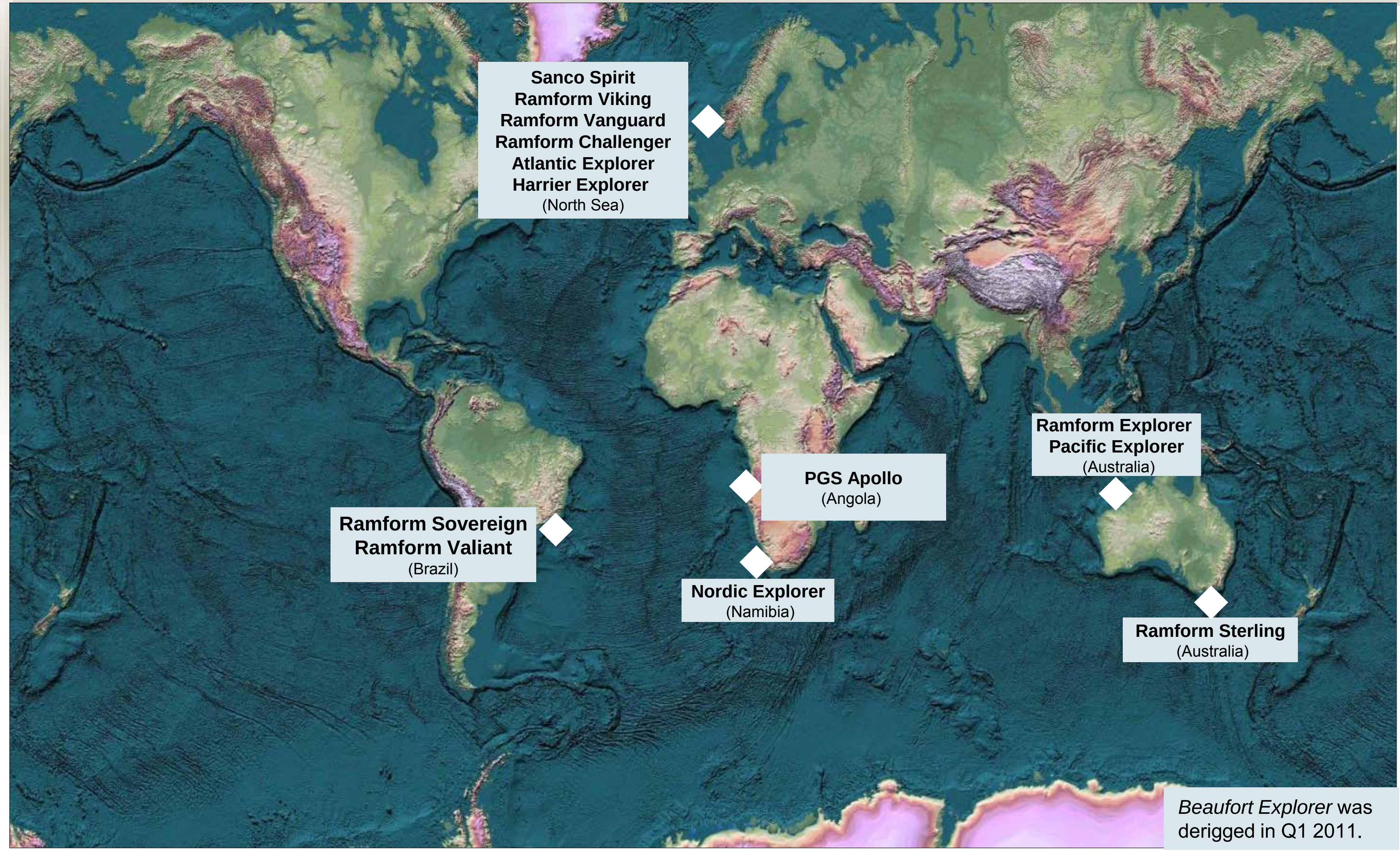
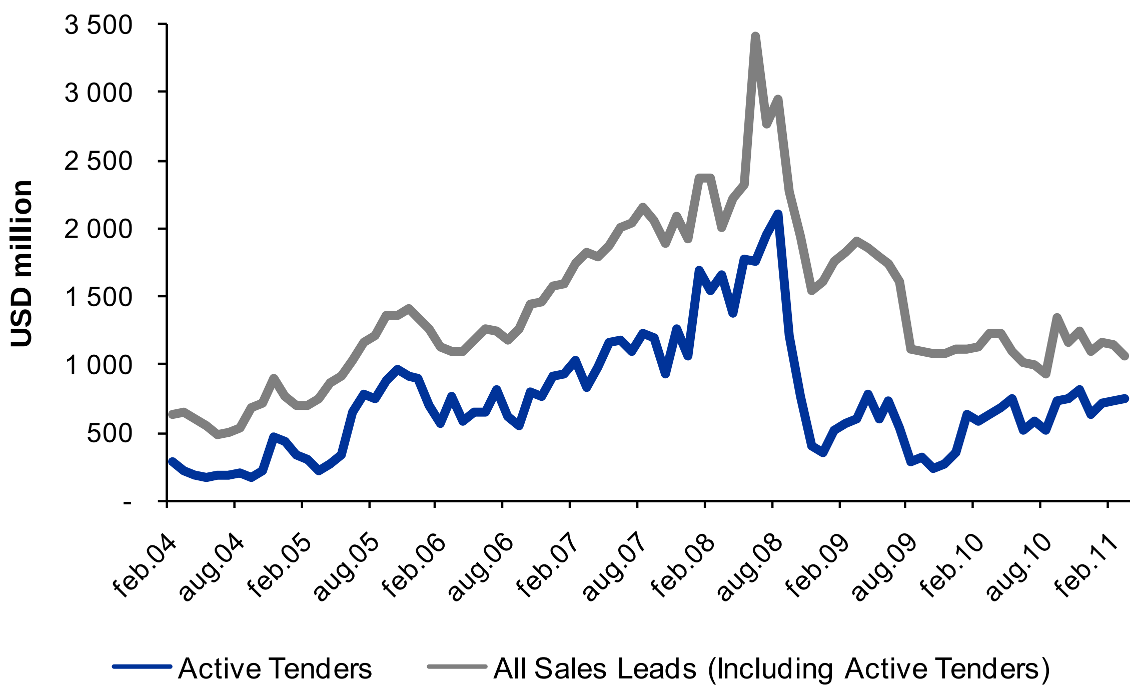
PGS going forward

Streamer Operations May 2011

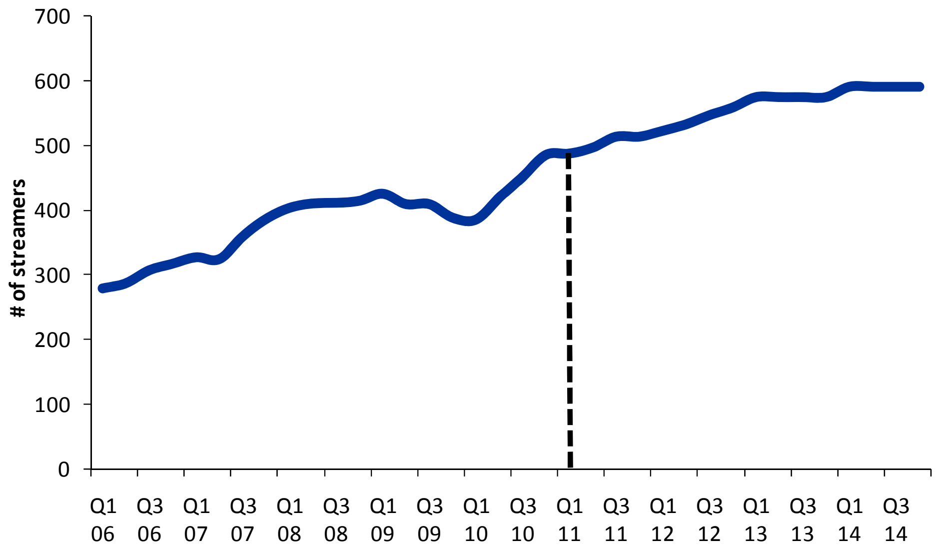


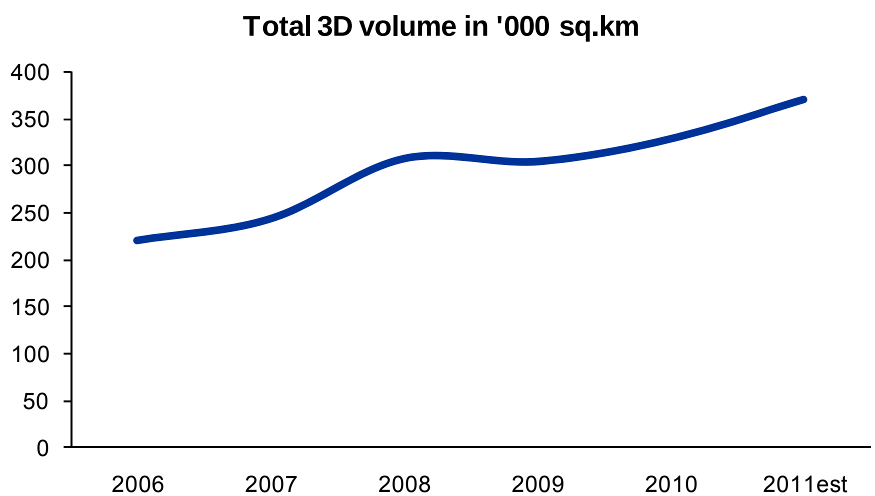
Bidding Activity Gradually Increasing



- Strong interest for GeoStreamer
- Significant bid opportunities in West Africa, Brazil
- North Sea season tightening up
- High licensing rounds activity
- GoM upside potential
- No activity in Egypt, Libya
- Price pressure in Asia Pacific

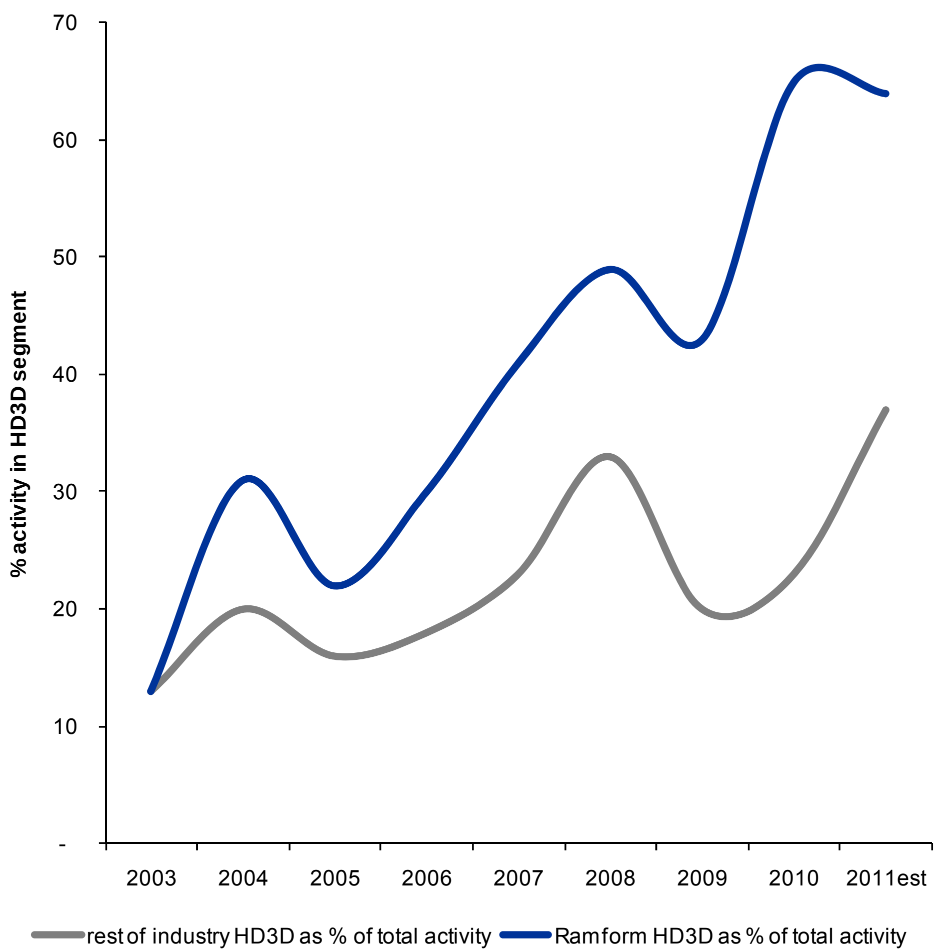
Capacity Increase Tapering Off





- Expected capacity increases
  - 7% increase in 2011
  - 7% increase in 2012
  - 4% increase in 2013
- Continuous E&P growth requirements evidenced by spending surveys
- Growth of 12-13% in km^{2} - 2011 over 2010
- PGS' fleet well positioned
  - Ramform W-class in 2013

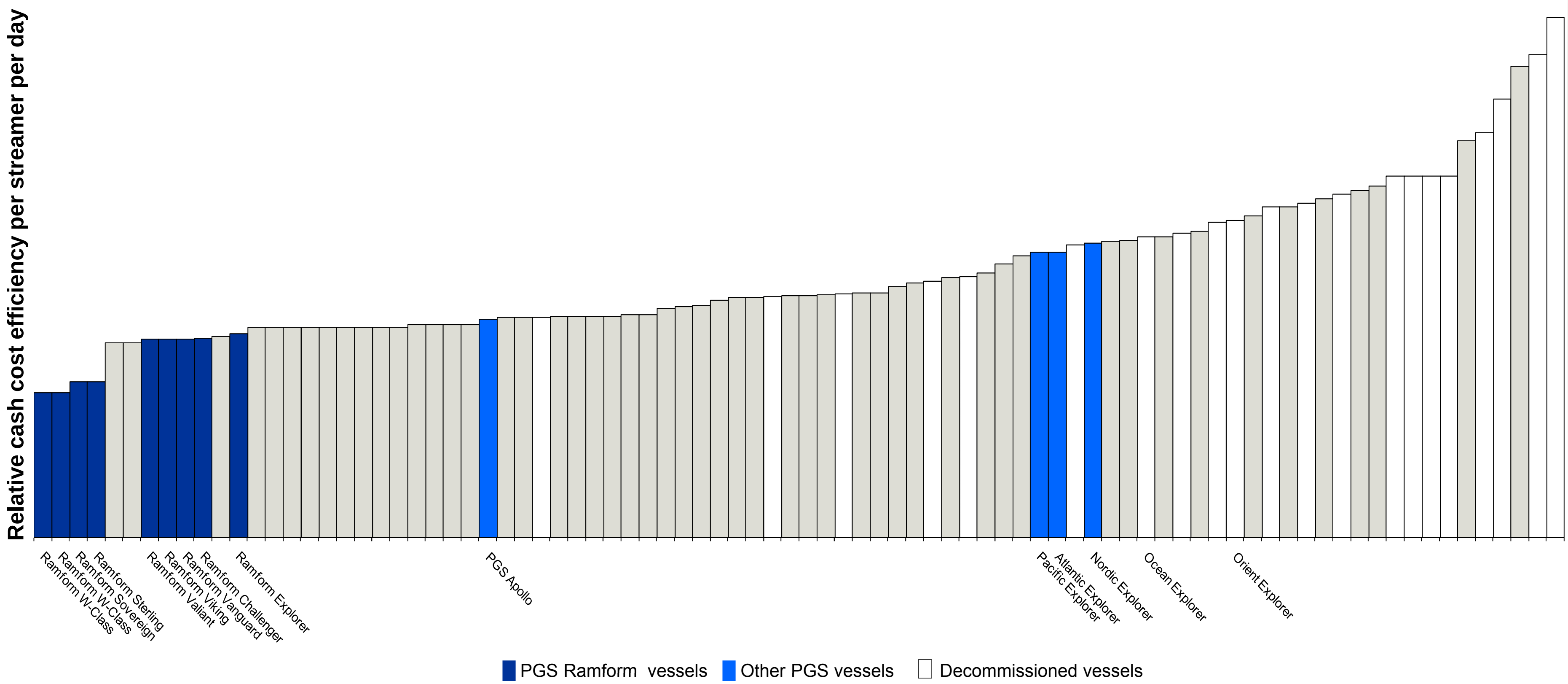
Ramforms Have the Lead in a Growing HD3D Segment



- HD3D has grown significantly over the last 8 years
  - Both in absolute size and in share of total activity
- In 2011, HD3D is growing to around 40% of total market in km^2 and significantly more in terms of revenue
- The Ramform fleet has consistently captured a large share of the HD3D segment
  - In 2011 Ramform capacity will be approximately 75% of PGS total
- HD3D market is less cyclical than exploration seismic and has more attractive margins

Favorably Positioned on the Industry Cost Curve

Excluding GeoStreamer productivity effect



PGS fleet is positioned to generate the industry's best margins

Source: The cash cost curve is based on PGS' internal estimates and typical number of streamer towed, and excludes GeoStreamer productivity effect. The graph shows all seismic vessels in the market, both existing and new-builds. The Ramform W-Class is incorporated with 15 streamers, S-class with 14 streamers and the V-class with 12 streamers.

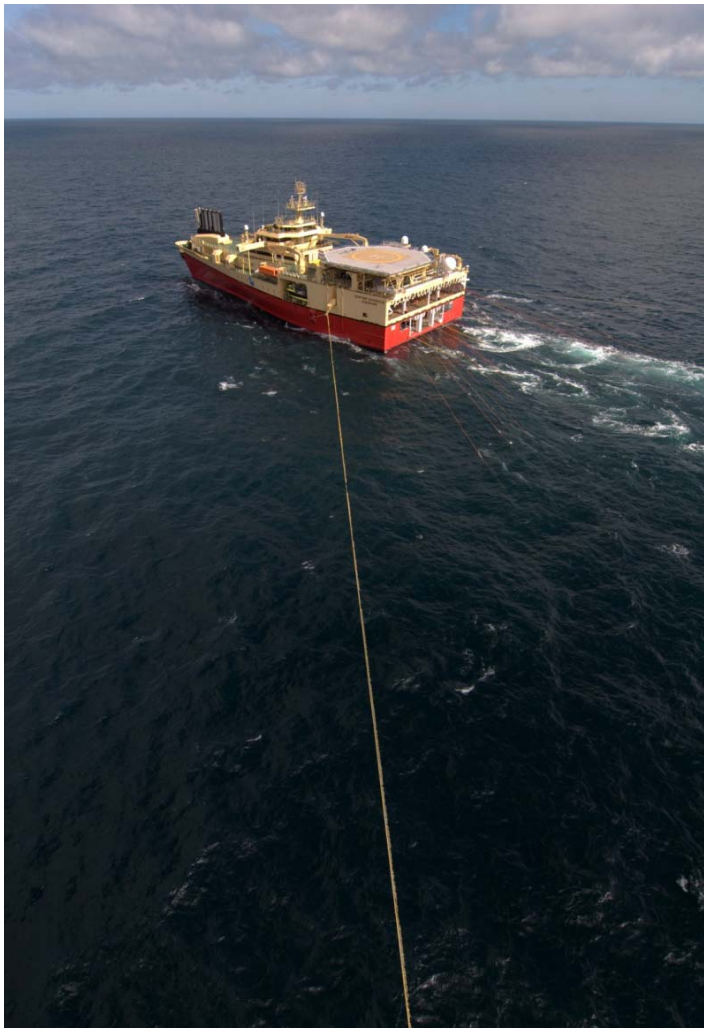
2011 Perspectives

- Average share of GeoStreamer out of total number of streamers will increase
  - 2011 increase in GeoStreamer capacity will primarily be used for MultiClient
- Temporary increase in yard stays from vessel upgrades and GeoStreamer rollout
- Temporary increase in technology spending caused by targeted R&D
- 2011 industry wide cost increase due to increased fuel cost and a weaker USD
- Expected full year marine contract EBIT margin of approximately 10-15%
- Good MultiClient revenues expected for the full year
- Strong growth momentum in Data Processing continues

Full Year 2011 Guidance

- EBITDA of approximately USD 500 million based on revised accounting policy
- CAPEX, including new builds, of approximately USD 250-265 million
- MultiClient cash investment in the range of USD 180-200 million
  - Potential for increase driven by strong customer interest and high prefunding

Positioned for Growth



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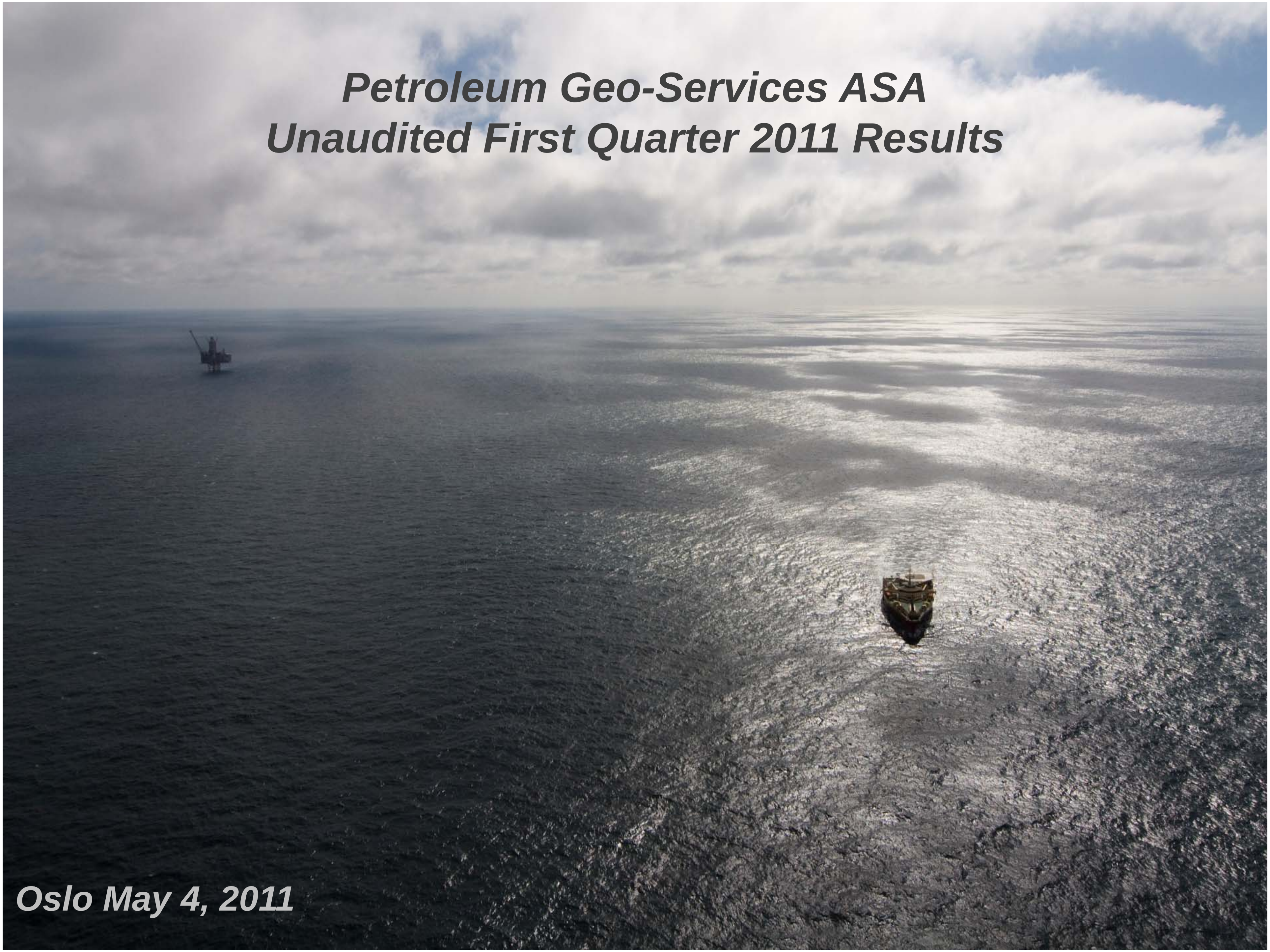
Technology and Productivity Leadership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Main Yard Stays for 3D Vessels Next 6 Months

Vessel	When	Expected Duration	Type of Yard Stay
Ramform Challenger	Scheduled May-June	Approximately 35 days	15 year class Upgrade instrument room DFE upgrade (digitalization of propulsion system.) New propulsion transformers.
PGS Apollo	Scheduled June 2011	Approximately 12 days	Installation of GeoStreamer
Pacific Explorer	Scheduled May-June 2011	Approximately 21 days	Class intermediate, annual and bottom survey. Change all bearings in gearbox
Ramform Explorer	Scheduled July 2011	Approximately 7 days	Engine overhaul, regular maintenance including repair of galley floor.

Robust Financing with good Maturity Profile

Long term Interest Bearing Debt	Balance as of March 31, 2011	Total Credit Line	Financial Covenants
USD 600 million Term Loan (“TLB”), Libor + 175 basis points, due 2015	USD 470.5 million		Incurrence test: total leverage ratio < 3.00:1
Revolving credit facility (“RCF”), Libor + 225 basis points, due 2015	USD 0 million	USD 350 million	Maintenance covenant: total leverage ratio < 2.75:1
USD 400 million convertible bond due 2012, coupon of 2.7% with strike NOK 216.19	USD 322.7 million*		None

* USD 344.5 million of nominal value outstanding after repurchase