

Capital Markets Day 2019



7 February 2019

Forward-Looking Statements

All statements in this presentation other than statements of historical fact, are forward-looking statements, which are subject to a number of risks, uncertainties, and assumptions that are difficult to predict and are based upon assumptions as to future events that may not prove accurate. These factors include TGS' reliance on a cyclical industry and principal customers, TGS' ability to continue to expand markets for licensing of data, and TGS' ability to acquire and process data products at costs commensurate with profitability. Actual results may differ materially from those expected or projected in the forward-looking statements. TGS undertakes no responsibility or obligation to update or alter forward-looking statements for any reason.

2

2018 – Another Year of Outperformance



- Strong revenue growth of 26%
- Outperformed consensus once again*
- ROCE at 18% approaching historical levels
- Solid cash generation enables continued dividend growth

* Analyst consensus estimate at 11 January 2018 according to Factset

3

Agenda

Time CET	Presentation
0000 0045	Procentation of 04 2019, market outlook and 2010 guidence
0900-0945	Presentation of Q4 2018, market outlook and 2019 guidance
0945-1000	Questions & Answers
1000-1015	Break
1015-1030	Financial strategy
1030-1145	Strategic priorities
1145-1200	Questions & Answers
1200-1230	Light lunch



Presentation team



Kristian Johansen CEO



Sven Børre Larsen CFO



Erik Finnstrom SVP New Ventures



Katja Akentieva SVP Onshore Seismic & Well Data



Arvind Sharma VP Data & Analytics



Zhiming Li SVP Imaging



Q4 2018 presentation

2018 Highlights

- Q4 2018 another solid quarter
 - Q4 net revenues of 188 MUSD, compared to 157 MUSD in Q4 2017 20% growth
 - Operating profit for the quarter was 68 MUSD, up 32% from 52 MUSD in Q4 2017
 - Earnings per share (dil.) of 0.59 USD, up 11% from 0.53 USD in Q4 2017
- 2018 strong growth and outstanding cash generation
 - 2018 net revenues of 622 MUSD, compared to 492 MUSD in 2017 26% growth
 - Operating profit of USD 172 MUSD, up 76% from 97 MUSD in 2017
 - Free cash flow was 117 MUSD for the full-year 2018
- Quarterly dividend payment of increased to USD 0.27 per share in Q1 2019, up 35% sequentially



Operational Highlights

Q4 2018 Operations





9

Q4 Activity – Norway / UK

Q4 Activity

- Utsira: 1,560 km² multi-client ocean bottom node (OBN)
 project in core part of the central North Sea
 - Strategic collaboration with Axxis Geo Solutions

Norway / UK Market

- Annual APA rounds in Norway / numbered rounds in UK
- Acreage turnover and farm-ins
- Small and mid-sized companies becoming increasingly important – 33 companies offered ownership interest in a total of 83 production licenses on the Norwegian Shelf in the APA 2018



Q4 Activity – North West Africa

Q4 Activity

- MSGBC SeaSeep: 113,500 km² multi-client regional SeaSeep project in the North West Africa Atlantic Margin
- Jaan 3D: 28,300 km² multi-client 3D project in the southern portion of the MSGBC Basin in partnership with PGS and GeoPartners
 - 11,100 km² new acquisition, complemented by reprocessing and full pre-stack merging of existing multi-client 3D

NW Africa Market

- Increased E&P company interest driven by exploration success
- Still some uncertainty on timing of license rounds





Q4 Activity – Brazil

Q4 Activity

- Brazil Southern Basins SeaSeep: 200,000 km² multibeam and coring project in Campos and Santos basins
- Santos Basin 3D: 15,000 km² multi-client 3D in the southern Santos Basin, in collaboration with Spectrum

Brazil Market

- License round transparency calendar out to 2021
- Seismic permitting process becoming more streamlined
 - But environmental permit challenges remain
- Supermajor focus area leading to competitive bidding





Q4 Activity – North America Land

Q4 Activity

- **Gloss Mountain (SCOOP/STACK):** 1,500 km² highresolution 3D multi-client project in the Anadarko Basin
- **Canton 3D (SCOOP/STACK):** 1,400 km² high-resolution 3D multi-client project in the Anadarko Basin
- Quail Ridge East 3D (Permian): 330 km² high-resolution 3D multi-client project in the Delaware Basin, in collaboration with Fairfield Geotechnologies
- **Dawson 3D Phase II (Montney):** 450 km² 3D multi-client project in the Montney shale formation

Onshore Market

- Geological complexity in some plays maximizing
 productivity from horizontals to minimize break even cost
- Acreage turnover and farm-ins





Financials

Net Revenues Segment Reporting



Prefunding revenues





Proprietary revenues



TGS

Net Revenues Breakdown

Segment Reporting





TGS

By Technology

Operating Expenses, EBIT, Free Cash Flow Segment Reporting



1. Personnel costs and other operating expenses excluding restructuring charges and larger impairments of operating items

EBIT²



2. Earnings before interest and taxes excluding restructuring charges and larger impairments of operating items



Amortization and impairments





3. Cash flow from operations minus operational investments in multi-client projects

Multi-client Library Segment Reporting



Operational investments and prefunding ratio



NBV multi-client library

Investments and NBV by year of completion







TG

Income Statement

Segment Reporting

(MUSD)		Q4 2018	Q4 2017	Change
Net operating revenues		188.3	156.7	20%
Cost of goods sold		0.3	0.1	244%
Personnel cost		21.6	17.4	24%
Other operational costs		9.8	8.7	13%
Cost of stock options		0.0	0.0	n/a
EBITDA	83%	156.7	130.5	20%
Amortization of multi-client library		86.1	76.8	12%
Depreciation		2.2	2.1	4%
Operating result	36%	68.4	51.6	32%
Net financial items		1.3	1.4	-4%
Result before taxes	37%	69.7	53.0	32%
Tax cost	12%	8.4	-2.0	n/a
Net income	33%	61.3	55.0	11%
EPS (USD)		0.60	0.54	11%
EPS fully diluted (USD)		0.59	0.53	11%

Cash Flow Statement

(MUSD)	Q4 2018	Q4 2017	Change
Received payments	119.9	172.7	-31%
Payments for operational expenses	-28.9	-34.0	-15%
Paid taxes	-28.6	-1.4	1983%
Net cash flow from operating activities		137.3	-55%
Investment in tangible fixed assets	-10.7	-1.5	593%
Investments in multi-client library	-80.8	-81.2	0%
Investments through mergers and acquisitions	0.0	0.0	n/a
Interest income	1.4	1.6	-11%
Net Cash Flow from investing activities	-90.1	-81.1	11%
Net change in loans	0.0	0.0	n/a
Interest expense	-0.4	-0.2	118%
Payment of dividends	-20.5	-15.3	34%
Paid in equity	0.0	3.9	-100%
Net cash flow from financing activities	-20.9	-11.5	81%
Net change in cash and cash equivalents	-48.7	44.7	-209%

20

Balance Sheet Segment Reporting

(MUSD)	Q4 2018	Q4 2017	Change
Goodwill	67.9	67.9	0%
Multi-client library	726.1	799.0	-9%
Deferred tax asset		4.4	-90%
Other non-current assets	31.4	29.2	7%
Total non-current assets	825.9	900.5	-8%
Cash and cash equivalents	273.5	249.9	9%
Other current assets	379.5	273.6	39%
Total current assets	653.0	523.6	25%
TOTAL ASSETS	1,478.9	1,424.1	4%
Total equity	1,265.5	1,200.1	5%
Deferred taxes	27.2	23.7	15%
Non-current liabilities	5.0	5.3	-6%
Total non-current liabilities	32.2	29.1	11%
Taxes payable, withheld payroll tax, social security	27.1	25.2	7%
Other current liabilities	154.2	169.8	-9%
Total current liabilities	181.2	194.9	-7%
TOTAL EQUITY AND LIABILITIES	1,478.9	1,424.1	4%





Thin balance in the oil market when taking uncertainty in US production growth into consideration



- EIA estimates a slight supply surplus in 2019...
- ...but EIA is in the high-end of the range with respect to US production growth estimates in 2019



Exploration activity has to increase



Source: SEB Research

Low spending driving down RRR...

...resulting in falling remaining reserve life

 \mathbf{TG}

Cash flow supporting increased E&P spending

- Most observations point to E&P spending growth of 5-10% in 2019
- Exploration spending traditionally has higher beta
- Several positive revisions of offshore spending and negative revision of onshore spending seen lately



2019 growth

Source: Carnegie



Multi-client spending still some way off pre-2015 levels



- Total industry multi-client sales growing 8% in 2018:
 - TGS +26%
 - Rest of the industry¹ +3%
- 32% above 2016 through, but still well below pre-2015 levels

1. PGS, WesternGeco, CGG, Spectrum, ION, Seitel, Polarcus (Segment revenues); companies that have not yet reported Q4 2018 are included with revenue growth equal to the average of the others



[■] Rest of the industry¹ ■ TGS

Net revenue backlog





2019 Projects Schedule*



*Acquisition schedule excludes processing projects and GPS investments









2019 guidance

- Growth in multi-client investments of approximately 20%
- Pre-funding of new multi-client investments expected to be 40-45%
- Amortization to be at approximately same level as 2018

Operational investments in new multi-client projects







Financial strategy

Superior value creation



Annual Total Shareholder Return

 TGS has created superior shareholder value over time

 Outperforming both other oil services stocks and the broader stock market significantly

Source: Capital IQ, Bloomberg

TGS's financial priorities

Maximize Return on Capital Employed

Maximize Cash Flow

Returning Excess Capital to Shareholders





Return on Capital Employed recovering



Return on Capital Employed¹

1. Return on average capital employed = EBIT / Average capital employed Capital employed = Equity + Net interest-bearing debt Annual average over indicated period

Maximize Return on Capital Employed

Maximize Cash Flow

Returning Excess Capital to Shareholders



Outperforming most other oil services companies



* Rolling 12 months to date of last report

Amortization policy Segment reporting

- Work in Progress (WIP) phase
 - Amortization based on sales

- After completion
 - Straight-line over four year for most projects
 - Land projects amortized over seven years
- Accelerated amortization
 - When recognition of sales leads to present value of forecasted remaining sales being lower than **Net Book Value**

	WIP	Year	Year	Year	Year	
Example project	phase	1	2	3	4	Total
Investment	100	0	0	0	0	100
Pre-funding revenues	50	0	0	0	0	50
Additional WIP sales	30	0	0	0	0	30
Late Sales after completion	0	80	20	20	0	120
Total revenues	80	80	20	20	0	200
WIP amortization pre-funding	25	0	0	0	0	25
WIP amortization additional sales	15	0	0	0	0	15
Straight-line amortization	0	15	15	15	0	45
Accelerated amortization	0	0	0	15	0	15
Total amortization	40	15	15	30	0	100
Net Book Value	60	45	30	0	0	0

- Project example
 - Investment 100
- Pre-funding 50%
 - Sales/investment 2.0x Additional sales in WIP phase 30


2019 Amortization

Segment reporting

- 2019 guidance: Approximately same level as in 2018
- Straight-line amortization
 - Likely to be slightly lower in 2019 than in 2018
- WIP amortization
 - Expected higher investments and pre-funding revenues
 - Possibly further increase from potential additional sales of projects in the WIP phase





Return impact integral part of decision processes

Maximize Return on Capital Employed

Maximize Cash Flow lacksquare

Returning Excess Capital to Shareholders

- Strict emphasis on return in evaluation of new multi-client projects
 - Focus on survey life almost 100% incremental margin on vintage sales
- Streamlining Working Capital
- Portfolio thinking risk/reward of portfolio better than the sum of the individual projects
- ROCE key metric in long-term incentive plans



Consistently strong cash flow

100% 94% 91% 90% 80% 80% 72% 71% 71% 68% 67% 70% 63% 62% 60% 60% 50% 40% 28% 30% 25% 24% 22% 19% 17% 17% 20% 16% 11% 10% 10% 5% 0% 2014 2015 2008 2009 2010 2011 2012 2013 2016 2017 2018 ■ CFFO / Net revenues FCF* / Net revenues

Cash conversion rate

* Free Cash Flow (FCF) calculated as Net Cash Flow from Operating activities minus Net Cash Flow from Investing activities

Maximize Cash

Flow





Industry leading cash conversion



* Free Cash Flow / Net revenues. Rolling 12 months to date of last report

40

Cash and cost are always on our minds

Maximize Return on Capital Employed

Maximize Cash Flow

Returning Excess Capital to Shareholders

- Strict cost control entire organization focused on cost and cash
 - Pro-active cash collection efforts
 - Strong correlation between cash in- and outflow
- Quality project management to ensure projects are completed at (or below) budget
- Improved forecasting



Returning excess capital to shareholders

Maximize Return on Capital Employed

Maximize Cash Flow

Returning Excess Capital to Shareholders

Dividend policy:

It is the ambition of TGS to pay a cash dividend that is in line with its longterm underlying cash flow. When deciding the dividend amount, the TGS Board of Directors will consider expected cash flow, investment plans, financing requirements and a level of financial flexibility that is appropriate for the TGS business model.

Implementation:

- Paid quarterly in NOK, but defined in USD
- New dividend level set in Q1 every year
- Aim at keeping a steady quarterly dividend through the year



Quarterly dividend increased by 35%

Maximize Return on Capital Employed

Maximize Cash Flow

Returning Excess Capital to Shareholders

- Quarterly dividend of USD 0.27 per share to be paid in Q1 2019
- Increase of 35 %
- Ex-date 14 February 2019
- Payment date 28 February 2019







1. Quarterly dividends defined in USD from 2016. Annual dividends defined in NOK prior to 2016 – converted to USD with the FX rate at the ex-dividend dates

2. Yield based on share price at date of announcing the dividend. From 2016-18 yield is calulated using the average of the quarterly payments

Paying dividends through the downturn



** Assuming that TGS continues to pay the quarterly dividend announced for Q1 2019 for the rest of the year

- Solid cash flow paves the way for dividend payments even when markets are weak
- TGS one of few oil service companies that kept paying dividends through the downcycle



Summary: What can you expect from TGS?



Strategic priorities

We've delivered since our last Capital Markets Day

	Capital Markets Day 2017	Capital Markets Day 2019	
Revenue*	456 MUSD	622 MUSD	+36%
MC Sales / MC Investment*	1.6	2.4	+50%
ROACE*	5%	18%	+234%
Dividend per share*	0.60 USD	0.80 USD	+33%

TGS Stock Price**	197.5 NOK	258.20***	+31%
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* Prior full year. Segment accounts

** 31 January

***Close 5 February 2019

Unique equity story in a cyclical industry

- Last 3 years Annual shareholder return of 17%
- Average free cash flow before dividend of 99 million
- Dividend of 203.7 million paid to shareholders



Free Cash Flow last 3 Years*



What defines our proven track record and performance?





Our people and reputation are TGS' most important assets

Employee Turnover



Industry Turnover: 12.6% (Source: Gartner)

Internal Job Fill



Employee Tenure







Employee Engagement





Different cycles – different priorities



Growth powered by performance and innovation











Strategic priorities

Profitable growth (ROCE)

- Apply new technologies in mature basins
- ✓ More South Atlantic focus
- ✓ Grow onshore investments

Expand value chain through Data & Analytics

- Capitalize on Big Data position
- ✓ From data to solution

Imaging quality and reputation

✓ R&D

- Leading position in Onshore and OBN processing
- ✓ Proprietary offering



1. Profitable growth

Different basins – different priorities



Net revenues of the last three years



- Core basins becoming mature drives need for new technologies
- Increased activity in South Atlantic driven by Brazil
- Onshore activity growing due to increasing geological complexity



New technologies required to unlock potential in mature basins

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore

bp

"BP's Gulf of Mexico business is key to our strategy of growing production of advantaged high-margin oil. We are building on our world-class position, <u>upgrading the resources at our fields through</u> <u>technology</u>, <u>productivity and exploration success</u>"

Bernard Looney, BP, Upstream chief executive



"Exploring for <u>resources close to existing infrastructure</u> is a central part of Equinor's strategy to further develop the Norwegian continental shelf (NCS). We need this kind of discoveries in the years to come"

Nick Ashton, Equinor, SVP Norway & UK



"Dover showcases our expertise in discovering new, commercial resources in a heartland helping deliver our deep-water growth priority. By focusing on <u>near-field exploration opportunities</u> in the Norphlet, we are adding to our resource base in a prolific basin that will be anchored by the Appomattox development"

Andy Brown, Shell Upstream Director



"We are investing to find **profitable barrels around our hubs**, test new plays and generate new potential stand-alone development opportunities"

Karl Johnny Hersvik, CEO, Aker BP





Introducing OBN technology in MC market

New technologies in mature basins



Introducing OBN technology in MC market: US GoM

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore

- Amendment: >2,350 km² multi-client nodal project in Mississippi Canyon and Atwater Valley*
- Long offsets will drive FWI to produce more accurate salt and thus sub salt images
- Substantial potential for further projects utilizing existing WAZ data in the Central GoM



*Collaboration with Western Geco

Introducing OBN technology in MC market: North Sea

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore

- Utsira OBN: 1,560 sq.km multi-client node project in the Utsira area in Norway*
- APA 2019 provided record-high interest and multiple licenses in the Utsira area
- Data spans near field exploration, appraisal and 4D baseline.



*Collaboration with Axxis Geophysical Services



Why the South Atlantic?



- Exploration and appraisal spend in the area increasing
- Demonstrated prospectivity region accounted for 5 of the top 10 discoveries in 2018. World's largest also in 2014,15, 17.
- Improving licensing round visibility despite continued political uncertainty



TGS' current position

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore



TGS

Current project activity

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore

- Brazil Multibeam and Sea seep
 200,000 km² and 400 cores
- Santos Basin 3D*
 - 15,000 km²
 - Positioned for new license rounds
- MSGBC Multibeam and Sea seep
 - 113,500 km² and 230 cores
 - Exciting preliminary data
- Jaan 3D**
 - 11,100 km² new data + 17,000 km² reprocessed and merged
 - On major discovery trend across 3 countries



* JV with Spectrum **JV with Geopartners and PGS



Ambition: Establish long-term revenue stream on par with existing TGS core areas

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore

- Build organization to meet ambition
- Focus on prolific hydrocarbon basins with selected high potential frontier entries
- Build sustainable project pipeline and library
- Create multi-layered data offerings as basins mature
- Leverage new analytics capabilities
- Build on data management capabilities



The shale industry has made America the world's top producer of crude oil



New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore

- Texas state production compared to all countries ranks #3 in the world
- Most US shale production is now profitable at less than \$50 a barrel
 - As low as \$30 in the Permian and SCOOP&STACK

TGS Onshore growth powered by performance and innovation



~12,270 sq. km. 3D

2019: ~34,700 sq. km. 3D

- Significant organic growth since acquisition of Arcis in mid-2012
- Technology uplift and strong returns underscore strategy of focused and selective expansion of onshore footprint



Core positions in premium basins

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore



TGS

How does Onshore fit within TGS Portfolio?





Unique offering through combination of seismic and well data

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore



- TGS is the only data library that contains both subsurface data types
- TGS Well Log Data is the most accurate and complete
- TGS seismic data is modern and fit for purpose



Importance of seismic for Unconventional resources is increasing

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore

"Initial stages of Unconventional revolution were driven by leaps in drilling and completions technology. Next stages will be driven by **improving our understanding of the behavior of these rocks and fluids and by improving our ability to predict them**"

David Hager, Devon, CEO



devon

"Our Basin-Leading Subsurface Capability such as Integrated workflows with vast Permian subsurface data drives customized development. <u>Integrated subsurface characterization optimizes</u> <u>development for value</u>"

Occidental corporate presentation, 7 January 2019



Chart from Occidental corporate presentation 7 January 2019

69

Subsurface data reveals complexity of the Delaware Basin

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore





Regional Structure map overlaid with Basin Temperature Model developed from well data. An indicator of which formations are in the oil window. Detailed structure map using seismic data and well logs.

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Subsurface understanding key to increasing productivity



Understanding the reservoir and well-performance



Three horizontal wells drilled into the Wolfcamp (Permian) without modern seismic with variable results





Understanding the reservoir and well-performance

Seismic illuminates the complexities and heterogeneities of Wolfcamp formation (Permian Basin), helps to maximize the value



Consider how the wells would have been drilled with seismic - extreme brittleness (high or low) suggests bad wells


Summary

New technologies in mature basins

Strengthening position in South Atlantic

Further growth onshore



- Surging US shale production
- TGS onshore portfolio has exceeded expectations
- Importance of seismic is increasing
- Well positioned in key basins with plans to grow
- Large volumes of subsurface data, wells and seismic
- Opportunity to create further value through Data Analytics



2. Expanding value chain through Data & Analytics

Digital transformation

Data is changing the oil & gas industry

Combining skills, data and computer power

Enhancing client offering further





"Data is the new oil"

Data is changing the oil & gas industry

Combining skills, data and computer power

Enhancing client offering further

- Digitization leading to rapid changes in society and business
- Progression within machine learning and artificial intelligence (AI) has made data the world's most valuable resource
- Business success defined by ability to collect, refine and use data

10 year challenge: World's largest corporations by Market Cap



Source: www.statista.com

Data is changing the oil & gas industry

Data is changing the oil & gas industry

Combining skills, data and computer power

Enhancing client offering further

BIG DATA >	ANALYTICS	SOLUTION

"One of the things we see at Google Cloud is that it's not the company with the best algorithm that's going to win — it's the company with the most data"

> Darryl Willis, Google Cloud, VP oil, gas, and energy sector

"And just to give you a sense of the scale: What we can now do in 1 day used to take 7 years to do. That's the processing of all this information" Doug Suttles, Encana, President and CEO

"I have terabytes and terabytes of seismic data, and I might use 5% of that."

Al Walker, Anadarko Petroleum, CEO



TGS has the skills, the data and the power



Enabling the E&P digital transformation





TGS's digital offering

TGS.ai A Cognitive Solution Platform for E&P **Geoscience Products Geoscience Solutions Data Management** • ARLAS • SaltNet Salt Model Building • TGS Data ٠ • Strat3D FaciesNet Formation Prediction Client Data ٠ • *ProdNet, etc.* SandNet, etc. **Facies Prediction** • Warehouse Data Seismic Subscription ٠ Sweet Spot, etc. **Original LAS** with missing logs Enhancing client offering further **ARLAS** with complete logs

TGS Cloud Platform (Data Lake)

Data Library



Geoscience product example: Automated Salt Model (SaltNet)

Data is changing the oil & gas industry

Combining skills, data and computer power

Enhancing client offering further





Geoscience product example: Automated Salt Model (SaltNet)

Data is changing the oil & gas industry

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Summary and way forward

Data is changing the oil & gas industry

Combining skills, data and computer power

Enhancing client offering further

- Accomplishment
 - Finished Data Lake
 - Commercial AI Products (ARLAS, Salt Model Building)
 - Data Management as Service
- What's Next
 - Progress TGS AI Platform
 - Expand the Geoscience Services Offering
 - Further Collaborate with E&P Companies



3. Imaging the future

Imaging the future

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through technology leadership





Mature basins: new technology to improve production and reduce (increasingly difficult) exploration risk

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through tech' leadership



- Full Azimuth
- Full waveform
 inversion



Onshore basins: Well-tie imaging and fracture detection to help horizontal drilling shale oil & gas production

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through tech' leadership

- Pre-stack Depth Imaging
- Reservoir Attribute
 Inversion

Permian Wolfcamp Horizontal Producer (Shell) – 3D Onshore Pre-stack Depth Imaging Cumulative 200mboe since 03/2016





Frontier basins: matured technology to improve success of frontier area exploration



TG

2D Seismic Acquisition and Imaging (1980-90s) over Vito Discovery

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through tech' leadership

- 2D poor coverage
- Poor velocity model







3D Seismic Acquisition and Imaging (2000s) over Vito Discovery

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through tech' leadership

- 3D good coverage
- Tomography improves model







Wide-Azimuth Acquisition and Imaging (2010s) Over Vito Discovery

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through tech' leadership

- Wide azimuth better coverage
- Full Waveform
 Inversion
 provides
 better model







Ocean Bottom Node Acquisition and Imaging (2020s)

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through tech' leadership

- Ocean Bottom Node best coverage
- Elastic Inversion leads full reservoir characterization







Leading Imaging technology, research & development, high performance computing and data analytics

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through tech' leadership

Technology Driven Projects

- OBN in mature basins
- FWI and Least-Squares migration in frontier areas
- Reservoir Characterization onshore

Client Focused Culture

- Top-tier processing shop
- Quality products and services
- Increase exposure to proprietary processing

Future Computing Strategy

- One of top-tier computer centers worldwide
- Cloud computing
- Next-generation software
- Data analytics





Summary and way forward

Growing demand for Imaging Technology

TGS has driven technology evolution

Strengthen reputation through tech' leadership

- Growing demand for Imaging technology in mature basins, onshore basins and frontier basins
- TGS has driven technology evolution, helping E&P companies to improve their understanding of the subsurface (2D 3D WAZ OBN)









Appendix

Income Statement

(MUSD)		Q4 2018	Q4 2017	Change
Net operating revenues		274.5	156.7	75%
Cost of goods sold		0.3	0.1	244%
Amortization of multi-client library		94.7	76.8	23%
Gross margin	65%	179.5	79.8	125%
Personnel cost		21.6	17.4	24%
Other operational costs		9.8	8.7	13%
Cost of stock options		0.0	0.0	n/a
Depreciation		2.2	2.1	4%
Operating result	53%	145.9	51.6	183%
Net financial items		1.3	1.4	-4%
Result before taxes	54%	147.2	53.0	178%
Tax cost	8%	22.3	-2.0	n/a
Net income	45%	124.9	55.0	127%
EPS (USD)		1.22	0.54	127%
EPS fully diluted (USD)		1.21	0.53	127%

Balance Sheet IFRS Reporting

(MUSD)	Q4 2018	Q4 2017	Change
Goodwill	67.9	67.9	0%
Multi-client library	870.5	799.0	9%
Deferred tax asset	0.9	4.4	-80%
Other non-current assets	31.4	29.2	7%
Total non-current assets	970.7	900.5	8%
Cash and cash equivalents	273.5	249.9	9%
Other current assets	380.2	273.6	39%
Total current assets	653.7	523.6	25%
TOTAL ASSETS	1,624.4	1,424.1	14%
Total equity	1,251.7	1,200.1	4%
Deferred taxes	29.3	2.9	927%
Non-current liabilities	5.0	26.2	-81%
Total non-current liabilities	34.3	29.1	18%
Taxes payable, withheld payroll tax, social security	27.1	101.4	-73%
Other current liabilities	311.4	93.5	233%
Total current liabilities	338.4	194.9	74%
TOTAL EQUITY AND LIABILITIES	1,624.4	1,424.1	14%



Reconciliation

Segment Reporting versus IFRS Reporting

Q4 2018 Income Statement (MUSD)	Segment Reporting	Diff.	IFRS Reporting
Net revenues	188.3	86.2	274.5
Amortization and impairment of multi-client library	/ 86.1	8.7	94.7
Total operating expenses	119.9	8.7	128.6
Tax cost	8.4	13.9	22.3
Net income	61.3	63.6	124.9

Q4 2018 Balance sheet (MUSD)	Segment Reporting	Diff.	IFRS Reporting
Multi-client library	726.1	144.3	870.5
Total non-current assets	825.9	144.8	970.7
Other equity	1,261.8	-13.8	1,248.0
Total equity	1,265.5	-13.8	1,251.7
Non-current liabilities			
Deferred taxes	27.2	2.0	29.3
Total non-current liabilities	87.4	-14.1	73.3
Accounts payable and debt to partners	87.4	-28.6	58.7
Taxes payable, withheld payroll tax, social security	27.1	0.0	27.1
Other current liabilities	66.8	185.9	252.6
Total current liabilities	181.2	157.2	338.4



Thank you

