



INVESTOR PRESENTATION
(UPDATED DECEMBER 12, 2011)

NXT

Energy Solutions

AN EMERGING GEOPHYSICAL SERVICE COMPANY

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Disclaimer and Forward-looking Statements



This presentation is not intended to be used as an Offering Document.

The information contained in this document may include forward-looking statements including opinions, assumptions, estimates and expectations of future prospects for the Company and financial projections. When used in this document, the words "anticipate," "believe", "estimate," "expect," "intend," "may," "project," "plan," "will," "should" and similar expressions are intended to be among the statements that identify forward-looking statements.

Forward-looking statements are subject to a wide range of risks and uncertainties, and although the Company believes that the expectations represented by such forward-looking statements are reasonable; there can be no assurance that such expectations will be realized. Any number of important factors could cause actual results to differ materially from those in the forward-looking statements including, but not limited to, volatility of oil and natural gas prices, changes in the oil and gas industry, the Company's ability to implement corporate strategies and obtain financing, the state of capital markets, operating risks, changes in general economic conditions and other factors more fully described from time to time in the reports and filings made by the Company with securities regulatory authorities.

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Board and Management



Management	Non-Executive Directors	Geosciences Advisory Board
<p>George Liszicasz Chairman & CEO</p> <p>Greg Leavens, C.A. Chief Financial Officer</p>	<p>Charles Selby <i>Caledonian Royalty Corporation</i></p> <p>Mickey Abougoush <i>Teknica Overseas Ltd.</i></p>	<p>Dr. George Iusco <i>Repsol</i></p>
<p>Andy Steedman, M.B.A. V-P Operations</p> <p>Grafton Withers, M.B.A. V-P Marketing & Sales</p>	<p>Tom Valentine <i>Macleod Dixon LLP</i></p> <p>Brian Kohlhammer <i>Delphi Energy Corp.</i></p> <p>John Agee <i>Business Advisor</i></p>	<p>Dr. Carlos Vargas <i>National University of Colombia</i></p>
<p>Extensive public company experience</p>	<p>Solid global management experience</p>	<p>Outstanding scientific credibility</p>

Market Facts as of December 12, 2011



Capitalization - Shares Outstanding (millions)

34.7	Common shares issued
10.0	Convertible Preferred shares (convert at 1:1, mature Dec 31, 2015)
2.7	Warrants (exercise price \$0.60, expiry Feb 16, 2012)
<u>2.8</u>	Stock options (average exercise price primarily \$0.72)
50.2	Fully diluted # of shares

D&O Insider Ownership - 17.5% Basic, 35.5% Fully diluted

52 Week High/Low: \$0.25 - \$1.29

Market Capitalization: ~\$30 million (on Basic)

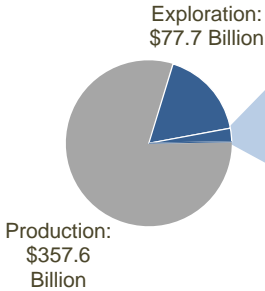
Debt-Free Balance Sheet

TSX-V: **SFD**, OTCBB: **NSFDF**

Opportunity in a Huge Global Market



2010 E&P Market:
\$447 Billion



\$12 Billion
Global Geophysics
Market

1% = \$120 million

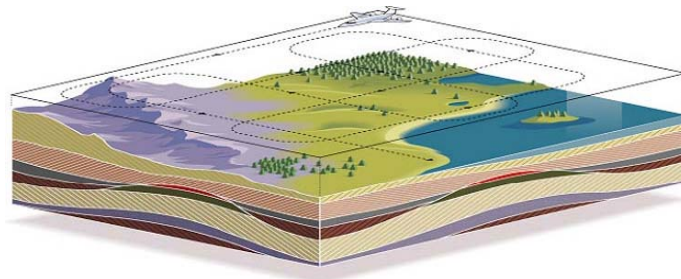
Market share is always available to cutting edge technologies

Source: Spears Oilfield Market Report, 2010; Barclay's Original E&P Spending Survey, 2010; NXT Market Analysis

What if....



a geophysics technology exists that will identify the best oil and gas prospects 10 times faster, and at 1/10 the cost of existing methods.

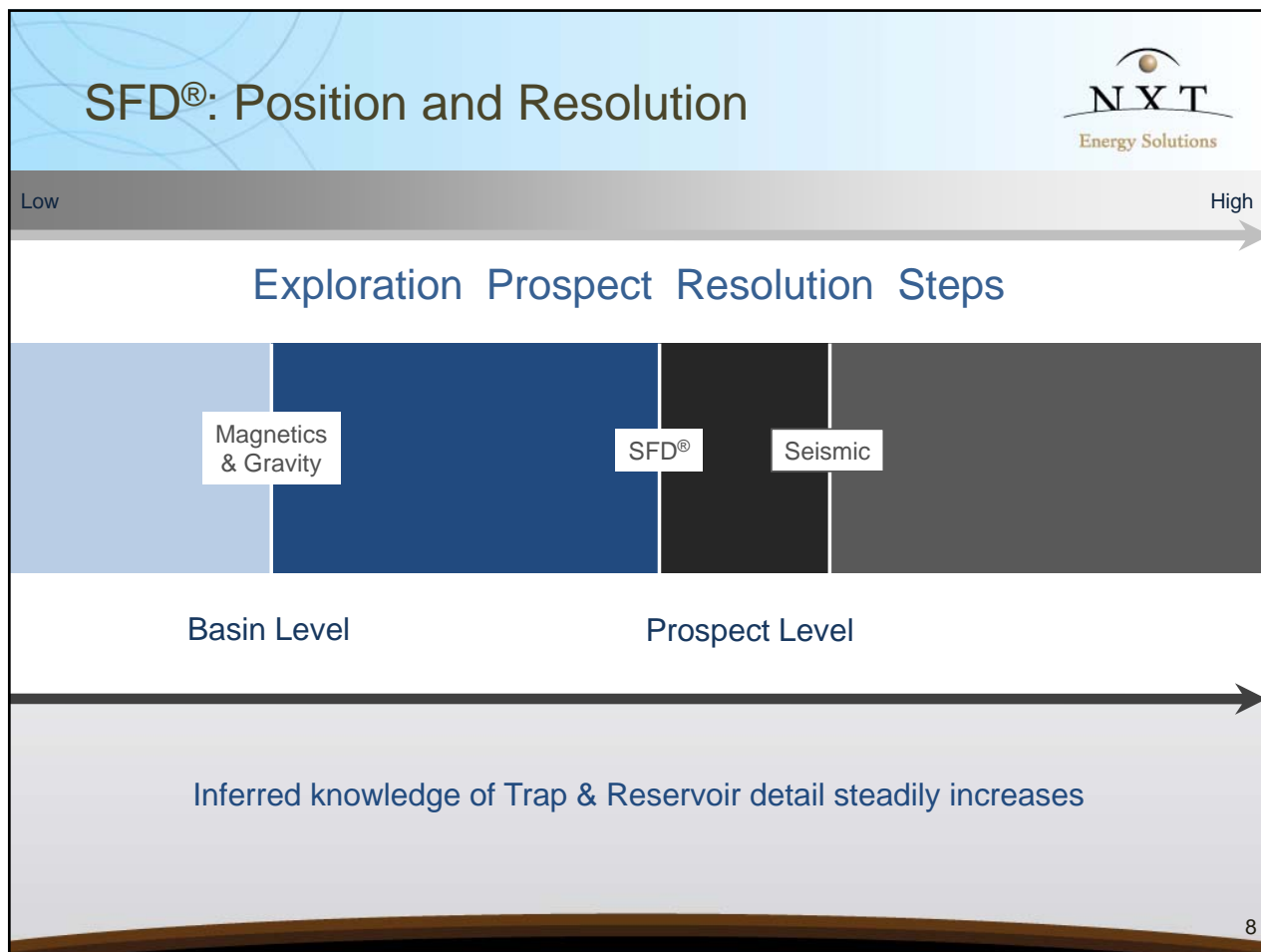


SFD[®]

(Stress Field Detector)

- Proprietary
- Citation 560 jet aircraft
- Survey altitude: 3000m
- Environmentally friendly
- Identifies areas of reservoir potential both onshore and offshore

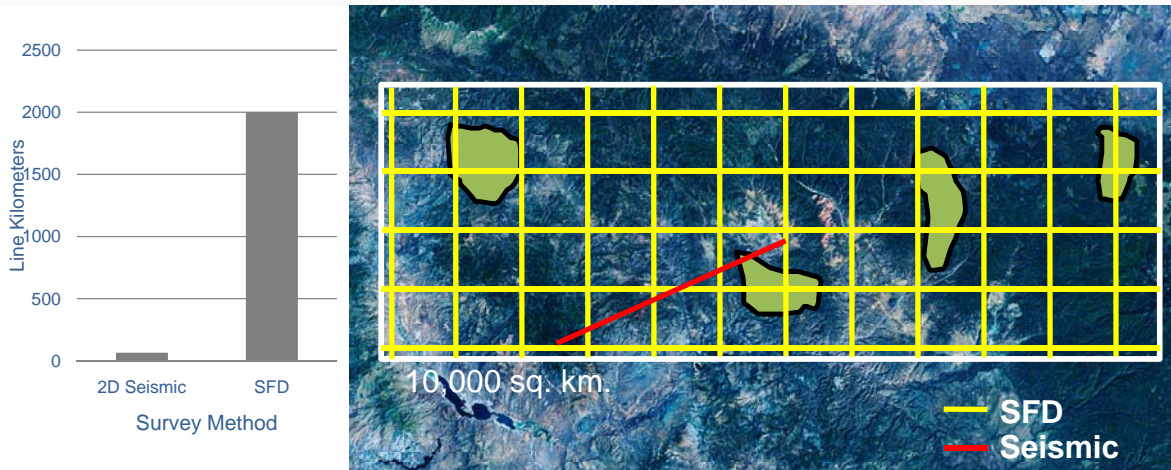




Comparison of Geophysical Methods

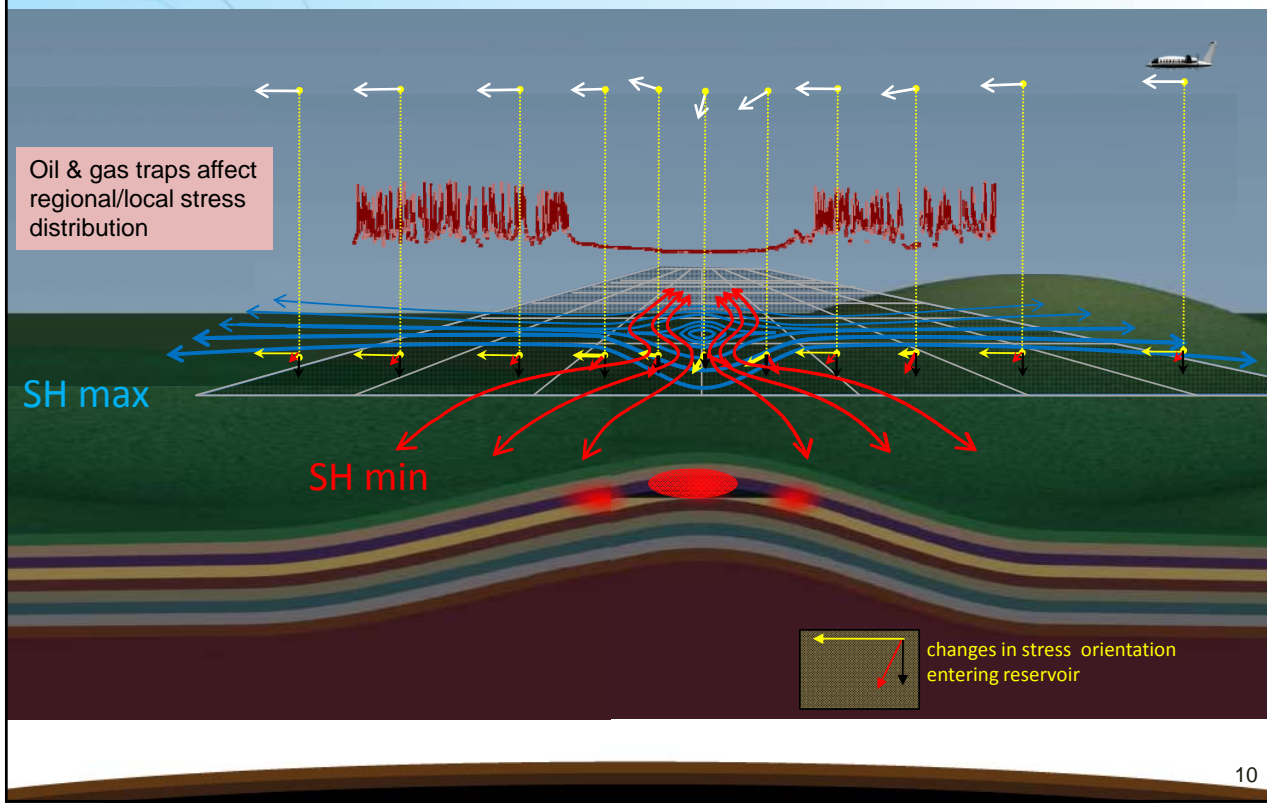


Data Coverage for \$2 Million (SFD or Seismic)



SFD delivers Focus quickly and cost effectively

SFD[®]: The Breakthrough Technology



Further Technical Validation



NXT is ahead of the curve with the **SFD[®] sensor.**

Quantum detectors are now being proposed by prestigious researchers.



JQI has “developed a novel design for a highly compact, ultra-sensitive quantum device to measure subtle changes in gravity using atomic interferometry.”

It may “be used to search for natural resources beneath the Earth’s surface.”

August 2010

Source: <http://www.jqi.umd.edu/news/242-a-new-design-for-a-gravimeter.html>

SFD[®]: Fast Tracks the Exploration Process



REDUCES

Cost

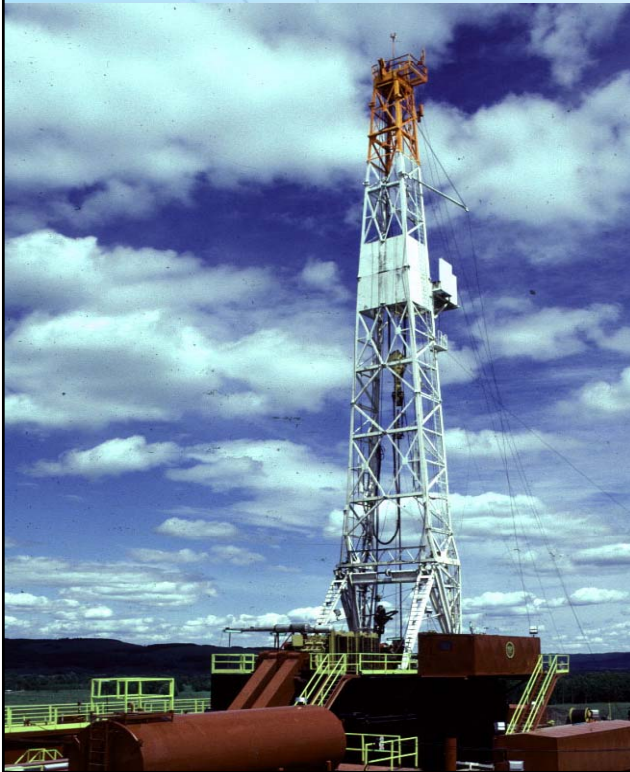
Time

Risk

E&P Success
=
**LOW FINDING
COSTS**

Focus is the key

Prospect-Scale Reconnaissance



SFD[®]
showed them
**WHERE TO
SHOOT**

Seismic showed them
where to drill.

NXT's Global Reach



Commercial Acceptance: Colombia Case



Initial interest 2009	Further testing 2010	Verification	Wide Adoption 2011
Tacacho block (\$2.6 million)	Quifa Block	Successful drilling projects in Quifa	US \$4.5 million LOI (\$3.5 million awarded) 5 blocks in Colombia & 1 Guatemala

Client acceptance = Repeat business

Testimonials



"[SFD]...is a technique that measures the energy associated with tectonic stress in substructures and therefore is helping assess those areas that are very remote, very complicated to acquire seismic. Integrating these techniques with the existing knowledge, [such as] the geological surveys and seismic information, helps us to understand the structural pattern of the area and define and prioritize the areas where we are going to follow up with some more detailed seismic. ***We used [SFD] and the results were very encouraging... we plan to continue using this modern technique in some of those remote areas where seismic is very complicated and expensive to shoot. This doesn't mean we are not going to shoot seismic, but it helps to plan the seismic coverage in big areas where you need to prioritize the seismic coverage***"

Jose Francisco Arata
President, Pacific Rubiales Energy

excerpt from presentation at Raymond James Investing in Colombia conference, Sept 13, 2010

"The SFD® survey system allowed us to do a timely evaluation of our TEA block in the Putumayo basin. We are making extensive use of the SFD® data concurrently with the rest of the information to select the best areas for future exploration."

Dr. Jairo Lugo
Sr. Vice President, Exploration, Pacific Rubiales Energy

Where Are We At Today?



2011 Contracts backlog: \$8.96 million

PRE (Colombia and Guatemala) - \$4.5 million

- US \$2.9 million (4 blocks) - data acquisition flights completed early Dec 2011, interpretation to be completed by mid Jan 2012
- US \$0.6 million contract in Guatemala planned to commence in Jan 2012
- US \$ 1.0 million contract pending finalization of award pursuant to LOI from mid 2011

Montana Land (USA) - \$150,000

- Complete

PCR (Argentina) - \$1.65 million

- Flights to commence in December 2011

South Asia project - \$2.66 million

- Contract signed, awaiting final regulatory permits, planned to commence in Q1-2012

Currently negotiating additional contracts for Ecuador, Argentina, Colombia

The momentum is building

Why Colombia / Latin America



Established customer base

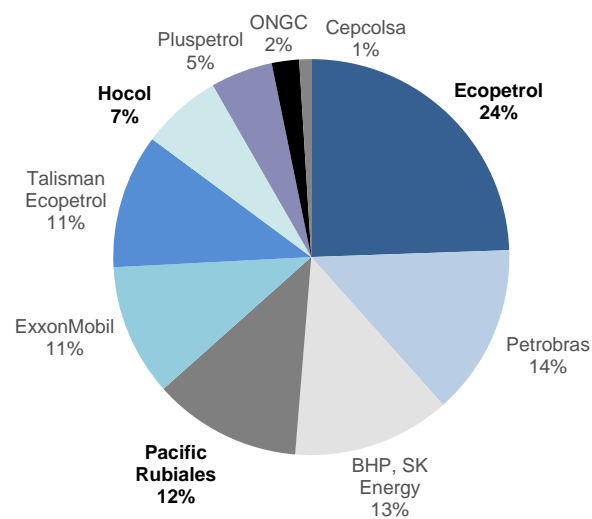
Large unexplored blocks

Many international players

Little existing data coverage

- Land access problems
- Environmental problems
- Ground security problems

Leverage success into other markets



Share of Colombian blocks over 1000 sq km in size
Total area 260,000 sq km

Revenue Sources



1. Fees for Service

Continue focusing on Latin America

Primarily Colombia, Argentina, Ecuador

Develop strategic global customers

Initially Pacific Rubiales Energy

2. Potential for Data Sales

Over 25,000 km of data already collected in Colombia

Additional data gathered with each new survey

3. Royalty / Bonus

Existing GORR contract in Canada (BC Horn River basin)

4. Potential Vertical Expansion

Equity ownership, long term contract, royalty



Additional high margin revenue streams being created

Summary



- Innovative exploration technology
- Early stages of commercial expansion
- High margin revenue streams
- Proven commercial field results
- Huge global market
- Sole global supplier
- Initial focus on Latin America



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