

2017 Results Conference Call



10 YEARS SINCE IPO

March 8, 2018

Cautionary Statement

Forward Looking Statements

This presentation contains “forward looking information” and “forward looking statements” within the meaning of applicable Canadian securities laws and the United States Private Securities Litigation Reform Act of 1995, respectively, which may include, but are not limited to, statements with respect to future events or future performance, management’s expectations regarding Franco-Nevada’s growth, results of operations, estimated future revenues, carrying value of assets, future dividends and requirements for additional capital, mineral reserve and mineral resource estimates, production estimates, production costs and revenue, future demand for and prices of commodities, expected mining sequences, business prospects and opportunities and the completion of previously announced transactions, including Cobre Panama. In addition, statements (including data in tables) relating to reserves and resources and gold equivalent ounces are forward looking statements, as they involve implied assessment, based on certain estimates and assumptions, and no assurance can be given that the estimates and assumptions are accurate and that such reserves and resources and gold equivalent ounces will be realized. Such forward looking statements reflect management’s current beliefs and are based on information currently available to management. Often, but not always, forward looking statements can be identified by the use of words such as “plans”, “expects”, “is expected”, “budgets”, “scheduled”, “estimates”, “forecasts”, “predicts”, “projects”, “intends”, “targets”, “aims”, “anticipates” or “believes” or variations (including negative variations) of such words and phrases or may be identified by statements to the effect that certain actions “may”, “could”, “should”, “would”, “might” or “will” be taken, occur or be achieved. Forward looking statements involve known and unknown risks, uncertainties and other factors, which may cause the actual results, performance or achievements of Franco-Nevada to be materially different from any future results, performance or achievements expressed or implied by the forward looking statements. A number of factors could cause actual events or results to differ materially from any forward looking statements, including, without limitation: fluctuations in the prices of the primary commodities that drive royalty and stream revenue (gold, platinum group metals, copper, nickel, uranium, silver, iron-ore and oil and gas); fluctuations in the value of the Canadian and Australian dollar, Mexican Peso and any other currency in which revenue is generated, relative to the U.S. dollar; changes in national and local government legislation, including permitting and licensing regimes and taxation policies, and the enforcement thereof; regulatory, political or economic developments in any of the countries where properties in which Franco-Nevada holds a royalty, stream or other interest are located or through which they are held; risks related to the operators of the properties in which Franco-Nevada holds a royalty, stream or other interest, including changes in the ownership and control of such operators; influence of macroeconomic developments; business opportunities that become available to, or are pursued by Franco-Nevada; reduced access to debt and equity capital; litigation; title, permit or license disputes related to interests on any of the properties in which Franco-Nevada holds a royalty, stream or other interest; whether or not Franco-Nevada is determined to have “passive foreign investment company” (“PFIC”) status as defined in Section 1297 of the United States Internal Revenue Code of 1986, as amended; potential changes in Canadian tax treatment of offshore streams; excessive cost escalation as well as development, permitting, infrastructure, operating or technical difficulties on any of the properties in which Franco-Nevada holds a royalty, stream or other interest; actual mineral content may differ from the reserves and resources contained in technical reports; rate and timing of production differences from resource estimates, other technical reports and mine plans; risks and hazards associated with the business of development and mining on any of the properties in which Franco-Nevada holds a royalty, stream or other interest, including, but not limited to unusual or unexpected geological and metallurgical conditions, slope failures or cave-ins, flooding and other natural disasters, terrorism, civil unrest or an outbreak of contagious disease; and the integration of acquired assets. The forward looking statements contained in this presentation are based upon assumptions management believes to be reasonable, including, without limitation: the ongoing operation of the properties in which Franco-Nevada holds a royalty, stream or other interest by the owners or operators of such properties in a manner consistent with past practice; the accuracy of public statements and disclosures made by the owners or operators of such underlying properties; no material adverse change in the market price of the commodities that underlie the asset portfolio; Franco-Nevada’s ongoing income and assets relating to determination of its PFIC status; no material changes to existing tax treatment; no adverse development in respect of any significant property in which Franco-Nevada holds a royalty, stream or other interest; the accuracy of publicly disclosed expectations for the development of underlying properties that are not yet in production; integration of acquired assets; risks related to the completion of previously announced transactions, including Cobre Panama; and the absence of any other factors that could cause actions, events or results to differ from those anticipated, estimated or intended. However, there can be no assurance that forward looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements and investors are cautioned that forward looking statements are not guarantees of future performance. Franco-Nevada cannot assure investors that actual results will be consistent with these forward looking statements and investors should not place undue reliance on forward looking statements due to the inherent uncertainty therein. For additional information with respect to risks, uncertainties and assumptions, please refer to the “Risk Factors” section of Franco-Nevada’s most recent Annual Information Form filed with the Canadian securities regulatory authorities on www.sedar.com and Franco-Nevada’s most recent Annual Report filed on Form 40-F filed with the SEC on www.sec.gov. The forward-looking statements herein are made as of the date herein only and Franco-Nevada does not assume any obligation to update or revise them to reflect new information, estimates or opinions, future events or results or otherwise, except as required by applicable law.

Non-IFRS Measures

Adjusted Net Income, Adjusted EBITDA and Margin are intended to provide additional information only and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with International Financial Reporting Standards (“IFRS”). They do not have any standardized meaning under IFRS, and may not be comparable to similar measures presented by other issuers. Management uses these measures to evaluate the underlying operating performance of the Company as a whole for the reporting periods presented, to assist with the planning and forecasting of future operating results, and to supplement information in its financial statements. The Company also uses Margin in its annual incentive compensation process to evaluate management’s performance in increasing revenue and containing costs. Management believes that in addition to measures prepared in accordance with IFRS such as Net Income and Earnings per Share (“EPS”), our investors and analysts use these measures to evaluate the results of the underlying business of the Company, particularly since the excluded items are typically not included in guidance. While the adjustments to Net Income and EPS include items that are both recurring and non-recurring, management believes these measures are useful measures of the Company’s performance because they adjust for items which may not relate to or have a disproportionate effect on the period in which they are recognized, impact the comparability of our core operating results from period to period, are not always reflective of the underlying operating performance of our business, and/or are not necessarily indicative of future operating results. For a reconciliation of these measures to various IFRS measures, please see the end of this presentation or the Company’s most recent Management’s Discussion and Analysis filed with the Canadian securities regulatory authorities on www.sedar.com and with the SEC on www.sec.gov.

This presentation does not constitute an offer to sell or a solicitation of an offer to purchase any security in any jurisdiction.

Agenda

- ★ Overview of 2017 Results
- ★ Business Development / Mineral Asset Update
- ★ Outlook and Q&A

Sandip Rana

Paul Brink

David Harquail



David Harquail
President & CEO



Sandip Rana
CFO



Paul Brink
SVP, Business
Development



Lloyd Hong
CLO & Corporate
Secretary

Overview of 2017 Results

Sandip Rana – CFO



Bald Mountain

Franco  Nevada

TSX/NYSE FNV

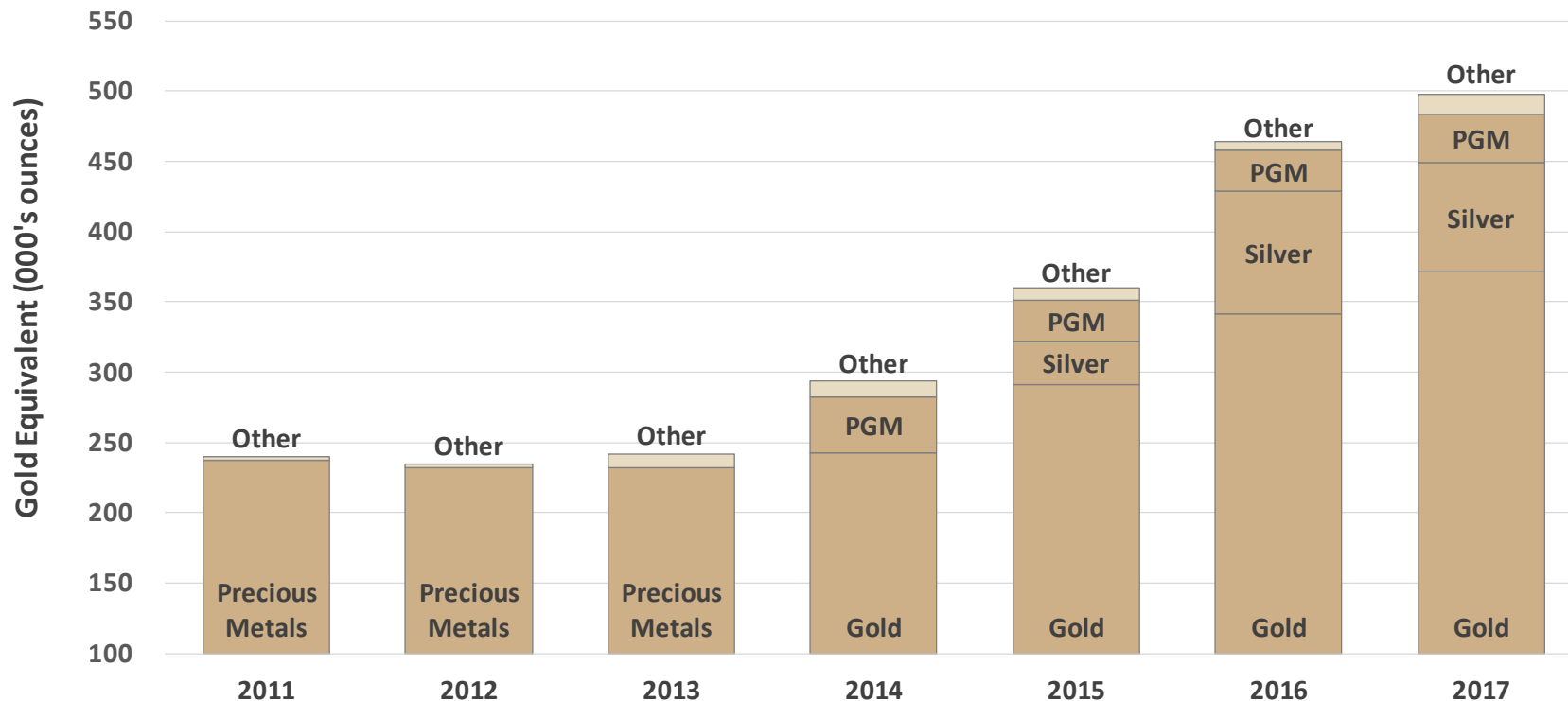
2017 Performance vs Guidance and Prior Year

Top end of guidance

	2015 Results	2016 Results	2017 March Guidance¹	2017 Results
GEOs ²	360,070	464,383	470k – 500k	497,745
Oil & Gas Revenue	\$28M	\$30.1M	\$35M – \$45M	\$47.0M

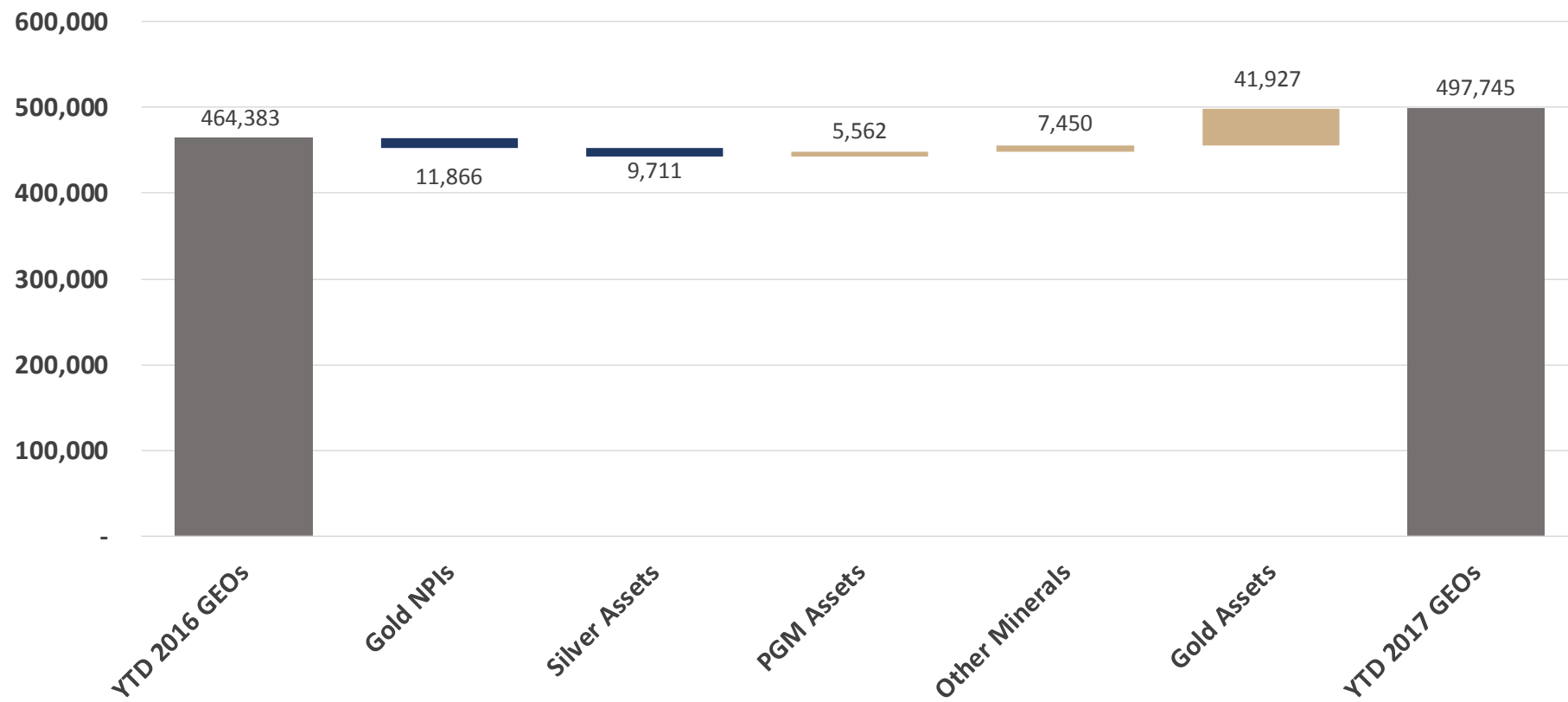
Assets continue to deliver

GEOs Realized













GEOs realized increased 7% year over year

GEOs: 2016 to 2017

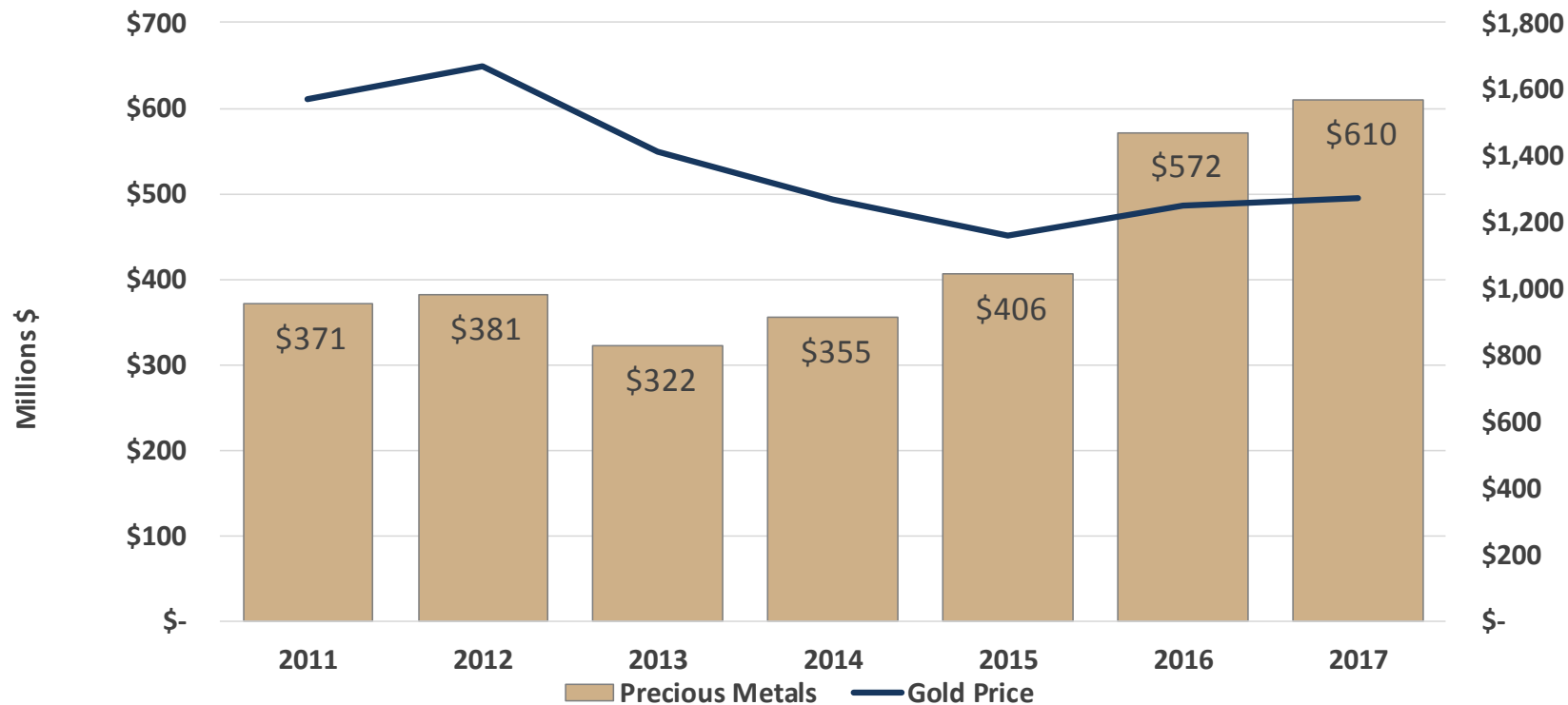


Year Over Year Average Price Changes

	Q4 2017	Full Year 2017
Gold	 4.6%	 0.7%
Silver	 2.8%	 0.8%
Platinum	 2.5%	 3.9%
Palladium	 45.2%	 41.9%
Oil	 10.0%	 18.6%

Partial Recovery

Precious Metals Revenue



6.6% increase in Precious Metals Revenue year over year

2016/2017 Financial Results

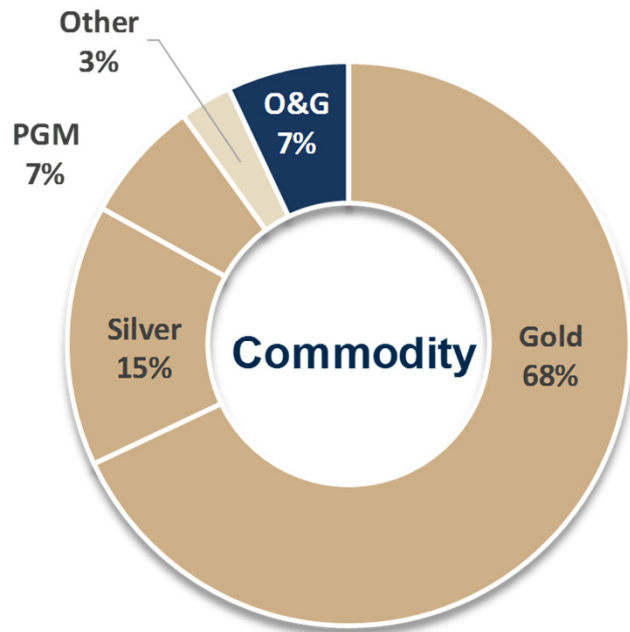
(\$ millions except gold price, GEOs, per share and %)	Q4 2017	Q4 2016	FY 2017	FY 2016
Average Gold Price (\$/ounce)	\$1,274	\$1,218	\$1,257	\$1,248
Gold Equivalent Ounces (GEOs)	119,839	121,910	497,745	464,383
Revenue	\$167.2	\$155.3	\$675.0	\$610.2
Adjusted EBITDA ¹	\$128.0	\$122.2	\$516.1	\$489.1
Adjusted EBITDA ¹ per share	\$0.69	\$0.69	\$2.82	\$2.79
Net Income (loss)	\$43.5	(\$4.5)	\$194.7	\$122.2
Net Income (loss) per share	\$0.23	(\$0.03)	\$1.06	\$0.70
Adjusted Net Income ²	\$52.1	\$42.9	\$198.3	\$164.4
Adjusted Net Income ² per share	\$0.28	\$0.24	\$1.08	\$0.94
Margin ³	76.6%	78.7%	76.5%	80.2%

Records

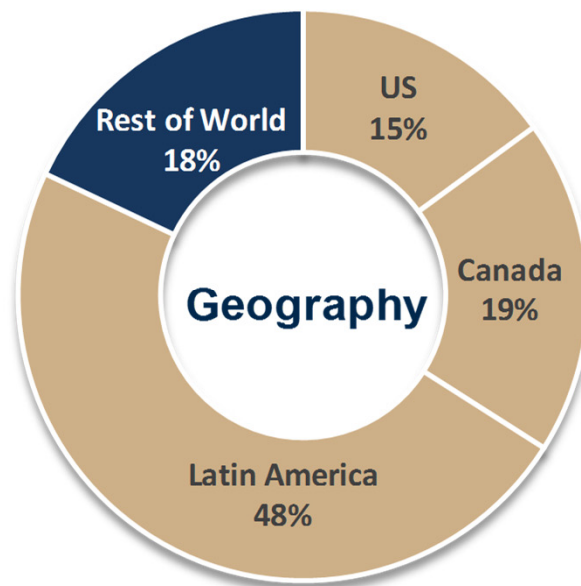
2017 Revenue Sources



90% Precious Metals



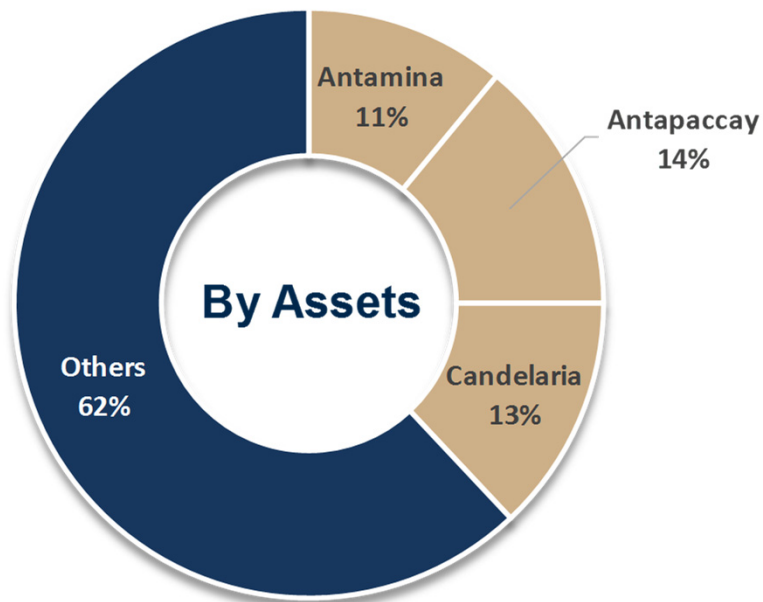
82% from Americas



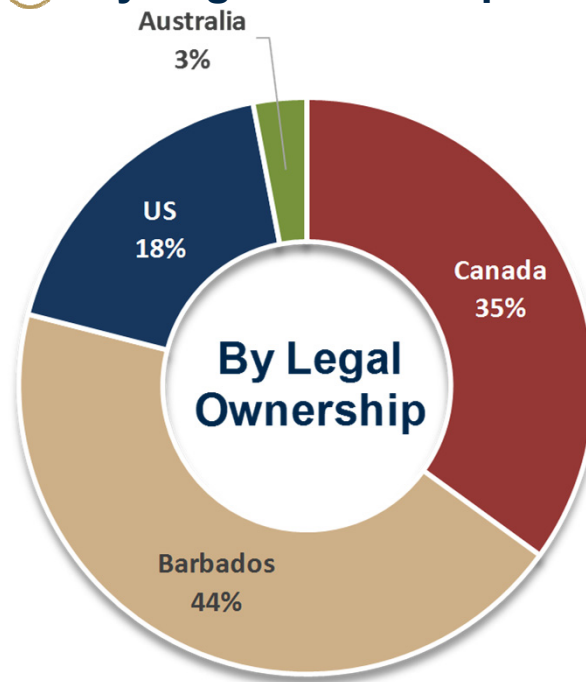
2017 Adjusted EBITDA Diversification



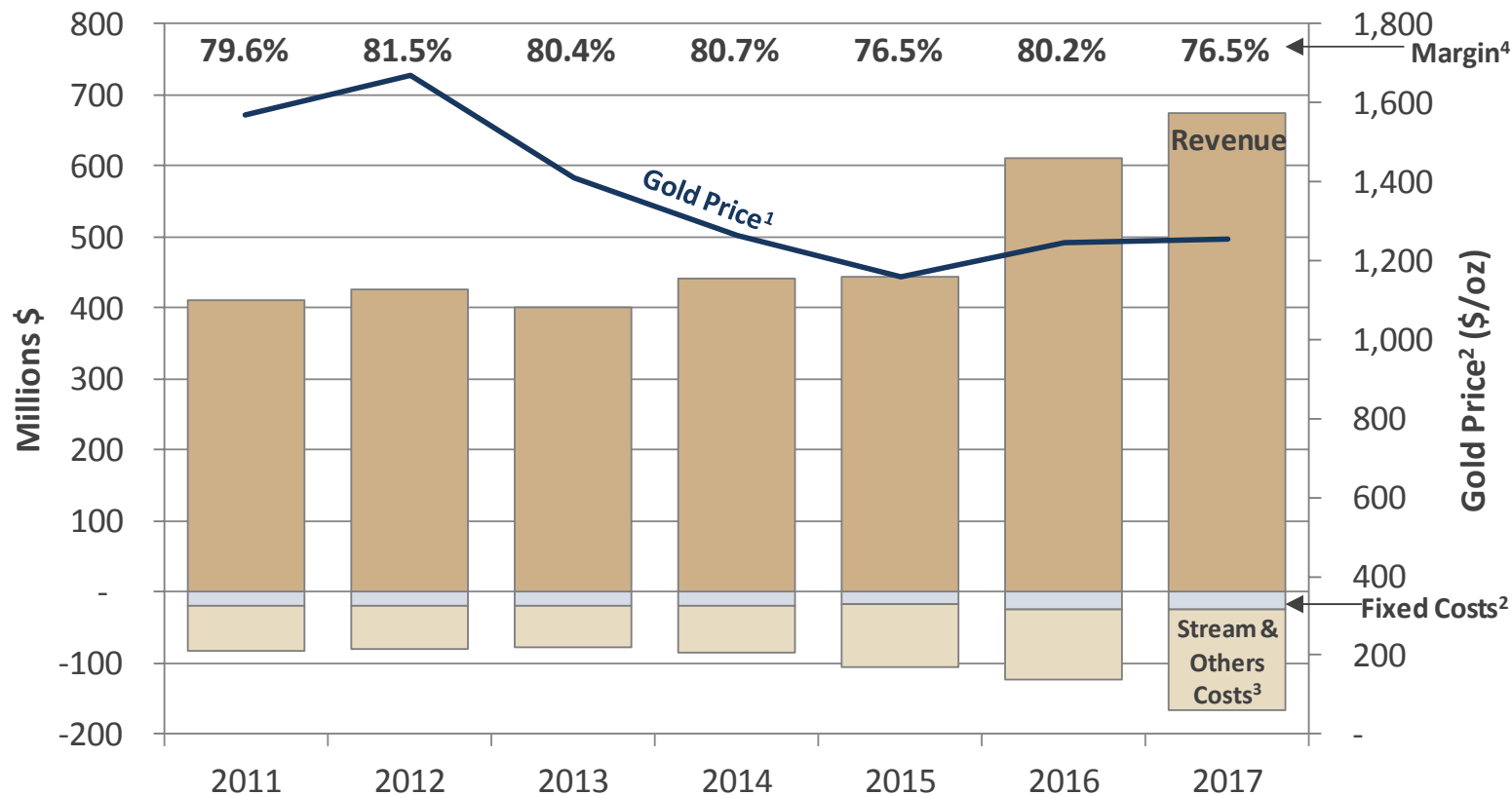
By Asset >10%



By Legal Ownership



A High Margin and Scalable Business



Available Capital

Working Capital ^{1,2}	\$593.8 M
Marketable Securities ¹	\$168 M
Credit Facilities	\$1,100 M
Delaware	(\$90 M)
Cobre Panama	(\$356 M)
Available Capital	US\$1.4 B

Cobre Panama – Mill Site



Business Development

Paul Brink – SVP, Business Development



Tasiast

Evolving Investment Opportunities

since 1985	Existing 3rd Party Royalties	<ul style="list-style-type: none"> • Cerro Moro – Yamana Gold • Brucejack – Pretium Resources 	<ul style="list-style-type: none"> • Hardrock – Premier Gold Mines
since 2008	By-Product Funding	<ul style="list-style-type: none"> • Palmarejo – Coeur Mining • Cobre Panama – First Quantum 	
since 2011	Primary Product Funding	<ul style="list-style-type: none"> • Kirkland Lake – Kirkland Lake Gold • Stibnite Gold – Midas Gold 	<ul style="list-style-type: none"> • Karma – True Gold Mining
since 2013	M&A Funding	<ul style="list-style-type: none"> • Sabodala – Teranga Gold • Fire Creek/Midas – Klondex Mines 	<ul style="list-style-type: none"> • Candelaria – Lundin Mining
since 2015	Recapitalization	<ul style="list-style-type: none"> • Antamina – Teck Resources • Antapaccay – Glencore 	
since 2016	Commodity Diversification	<ul style="list-style-type: none"> • STACK Oil & Gas – Oklahoma • Delaware Oil & Gas, Permian/Texas 	<ul style="list-style-type: none"> • Orion Oil & Gas, Alberta • Midland Oil & Gas – Permian/Texas
since 2017	Project Financing	<ul style="list-style-type: none"> • Cobre Panama – KORES 	

Recent Investments

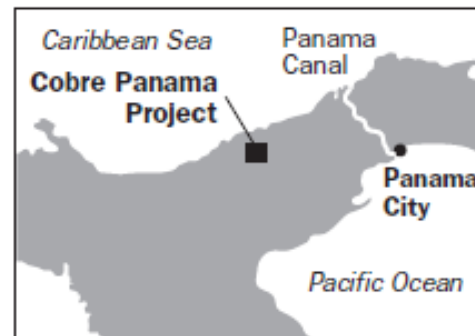
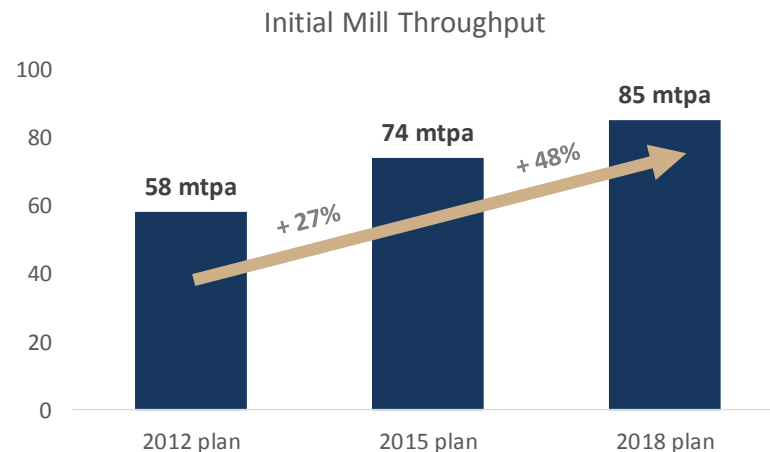
Date	Amount	Asset	Investment
Q4 2016	\$100M	STACK, Oklahoma	O&G royalties
Q1 2017	\$115M	Midland, Permian Basin	O&G royalties
Q2 2017	\$28M	STACK II, Oklahoma	O&G royalties
Q3 2017	\$74M	Orion, Alberta	O&G royalties
Q4 2017	\$101M	Delaware, Permian Basin	O&G royalties
Q1 2018	\$356M ¹	Cobre Panama	Precious Metals



Midland Basin, Texas

Additional Cobre Panama Stream

- ✓ New stream on KORES 10% and former LS-Nikko 10% for \$356M. FNV now has streams on 100% of Cobre Panama
- ✓ First Quantum recently announced the addition of an 8th mill, increasing initial throughput to 85mtpa and upgrades to allow future throughput of 100 mtpa
- ✓ Phased commissioning will start in late 2018 with ramp-up 2019



Cobre Panama – First Coal Shipment



Cobre Panama – Power plant



Cobre Panama – Plant site looking north



Cobre Panama – Pre strip

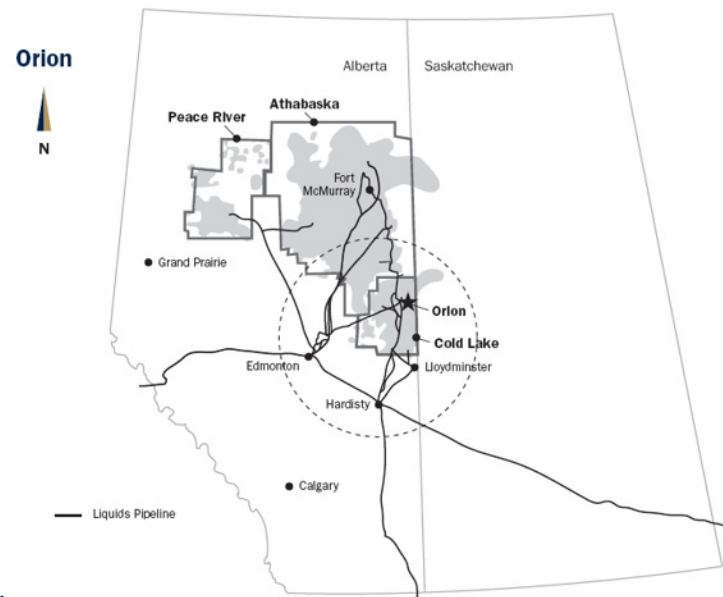


Orion 4% GORR

- ✓ Acquired 4% GORR on Osum's Orion Project for \$74.1M (effective date of Sep. 1, 2017)
- ✓ Royalty applies to Clearwater formation and allows for deduction of transport and diluent costs
- ✓ Orion is a SAGD operation located in Cold Lake area of Alberta
- ✓ Osum is a private oil sands company formed in 2005 and is well funded to execute growth strategy

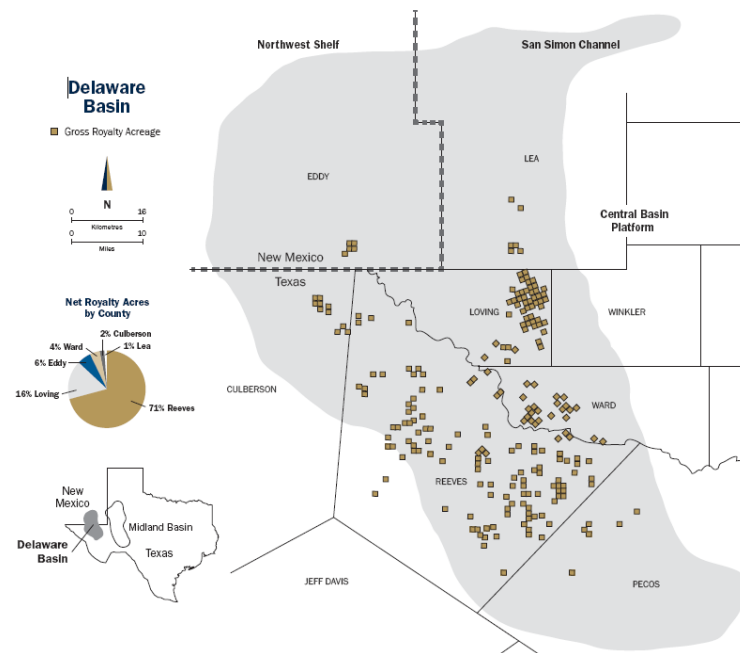


- ✓ Current production rate of ~9,000 bbl/d
- ✓ Phase 2B+2C underway, expected to increase production to 18,000 bbl/d by end of 2019
- ✓ Company has regulatory approval for and is targeting production of up to 20,000 bbl/d via future phases
- ✓ December royalty revenue of ~C\$500k¹



Delaware Basin Royalties

- ✓ US\$101M¹ acquisition of royalties in the Delaware Basin (effective date of Oct 1, 2017)
- ✓ ~700 acres net to royalty (almost entirely mineral title)
- ✓ Delaware Basin is the western portion of Permian Basin
- ✓ Acquisition provides exposure to one of the most economically attractive shale plays in the US
- ✓ Most active basin in the US with ~150 Hz rigs



- ✓ Royalty acreage focused on the core of the play with exposure to strong operators
- ✓ Mineral title provides perpetual exposure to multiple formations at depth
- ✓ Revenues expected to grow with further development of the basin

Organic Portfolio Growth

NEAR TERM

2018

Tasiast (*Mauritania*) phase 1 expansion Q2

Subika/Ahafo (*Ghana*) commercial production H2

Cerro Moro (*Argentina*) start-up in Q2

Brucejack (*British Columbia*) production ramp-up

Sissingue (*Côte d'Ivoire*) start-up in H1

2019

Cobre Panama (*Panama*) ramp-up

Candelaria (*Chile*) new pit fleet

Ity (*Côte d'Ivoire*) CIL production

Musselwhite (*Ontario*) materials handling project

Subika/Ahafo (*Ghana*) mill expansion

2020

Cobre Panama (*Panama*) ramp-up

Tasiast (*Mauritania*) phase 2 expansion

Orion O&G (*Alberta*) phase 2B + 2C expansions

2021

Stillwater (*Montana*) Blitz production adds >50%

EXPECTED DEVELOPMENT

South Arturo (*Nevada*)

Macassa (*Ontario*)

Rosemont (*Arizona*)

West Detour (*Ontario*)

Hardrock (*Ontario*)

Agi Dagi/Camyurt (*Turkey*)

Castle Mountain (*California*)

SCOOP/STACK O&G (*Oklahoma*)

Permian Basin O&G (*Texas*)

EXPLORATION GROWTH

Hemlo (*Ontario*)

Bald Mountain (*Nevada*)

Tasiast Sud (*Mauritania*)

Guadalupe (*Mexico*)

Marigold (*Nevada*)

Duketon (*Australia*)

Canadian Malartic (*Ontario*)

Outlook

David Harquail, President & CEO

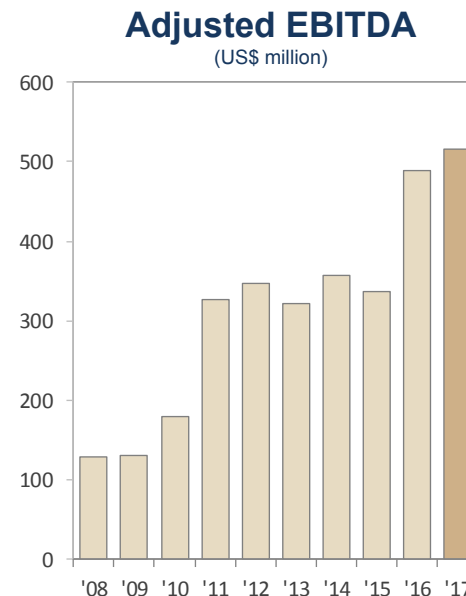
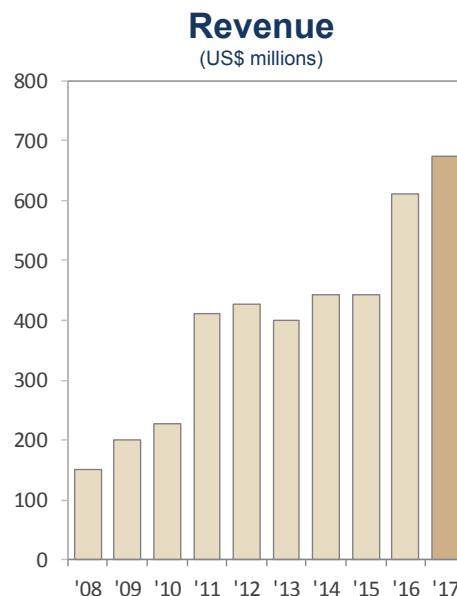
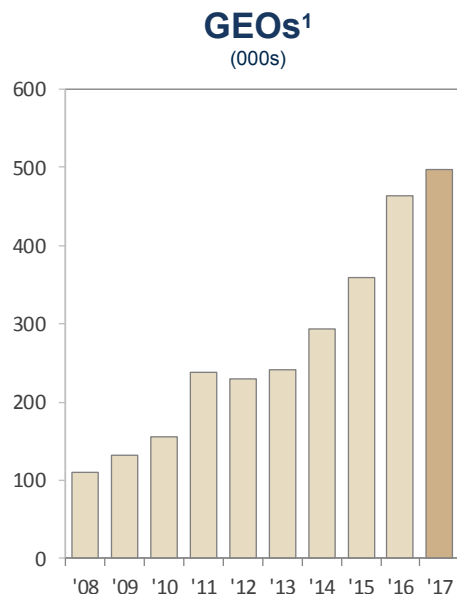


Antamina

Franco  Nevada

TSX/NYSE FNV

Performance Since IPO



**Exceptionally strong 2016 and 2017 driven
by Candelaria, Antamina, Guadalupe-Palmarejo and South Arturo**

2018 Guidance

★ **Expected GEOs¹: 460,000 to 490,000**

- Assumes no GEOs from Cobre Panama
- Temporary dip at Candelaria
- Normalized production at Antamina and Guadalupe-Palmarejo

★ **Oil & Gas revenue: \$50M to \$60M²**

- Reflects higher oil price and production ramp-up
- Full year from Midland, Osum and Delaware acquisition

★ **Depletion**

- Estimate \$250M - \$280M in 2018 (was \$273M in 2017)

★ **Cobre Panama funding**

- Estimate \$230M - \$250M in 2018

2022 Guidance

★ **Expected GEOs¹: 565,000 to 595,000**

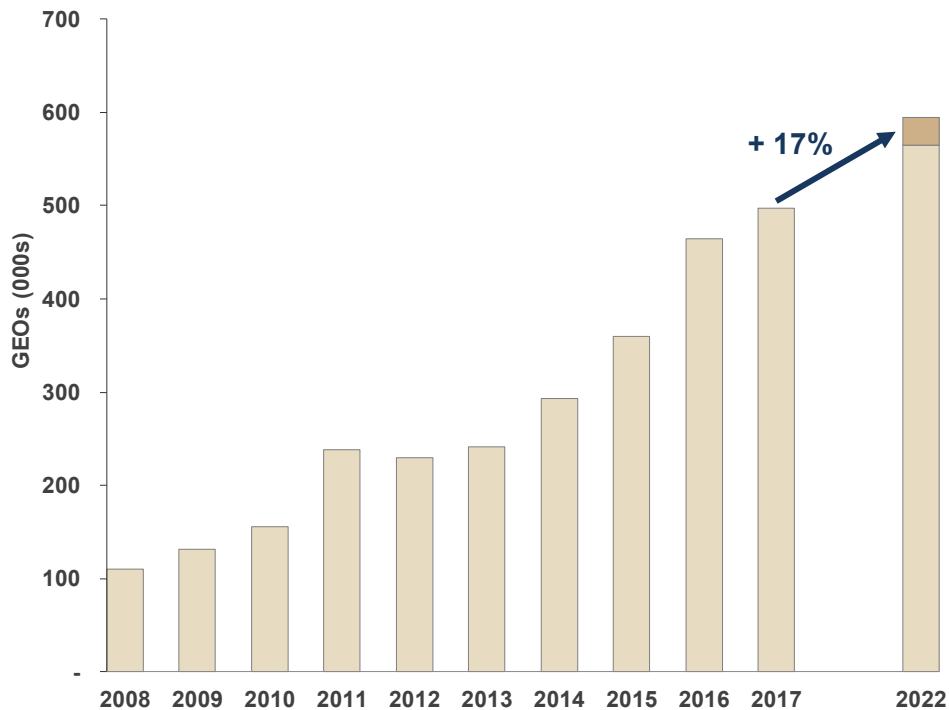
- Cobre Panama fully ramped-up based on First Quantum's projections
- Expansions at Subika, Tasiast and Stillwater
- Lower royalty and stream payments from Fire Creek/Midas, Karma and Sabodala

★ **Oil & Gas revenue: \$80M to \$90M²**

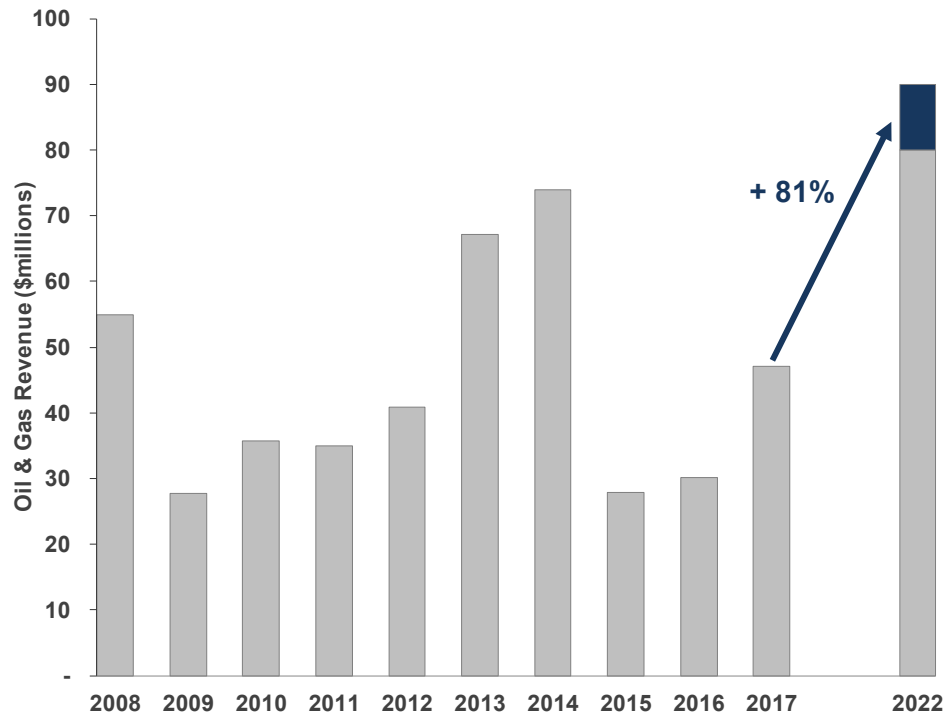
- On-going full-field development of U.S. Oil & Gas assets
- Doubling of production at Osum-Orion project in Alberta
- Lower production at Weyburn

2022 Guidance in Perspective

GEOs



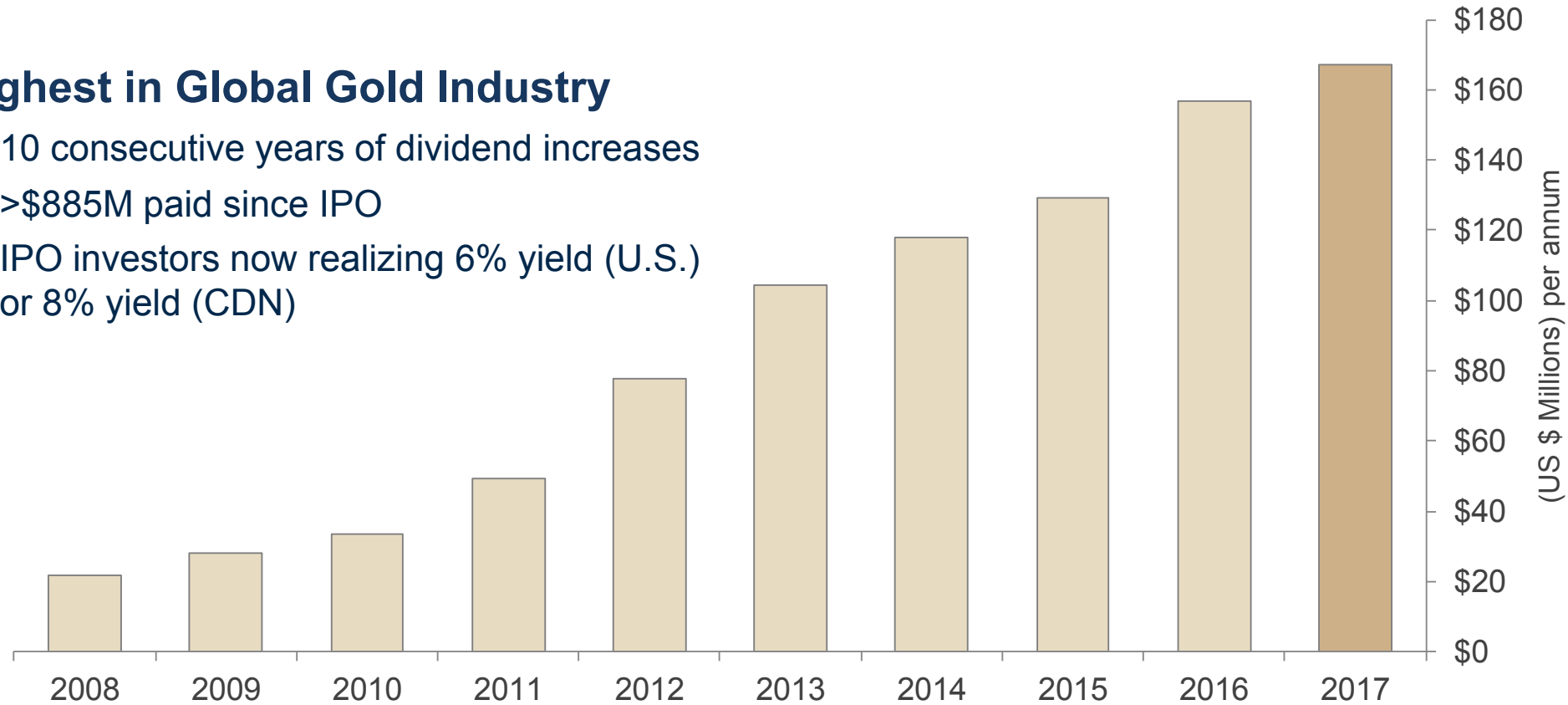
Oil & Gas Revenue



\$168M of Dividends Paid in 2017

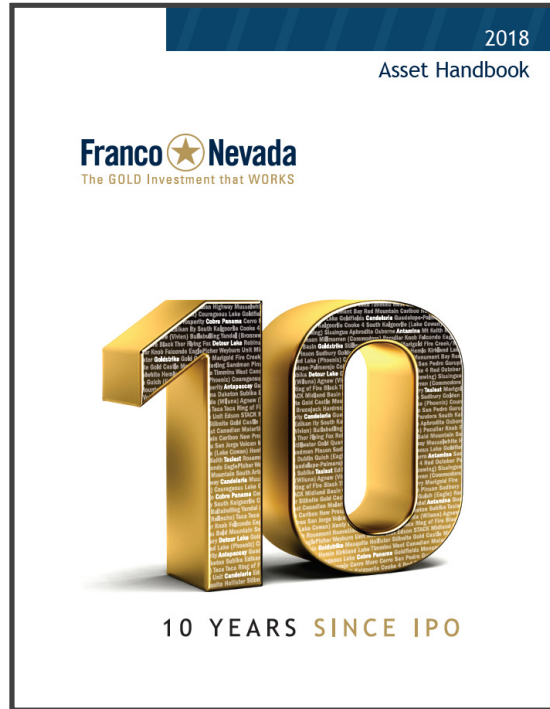
Highest in Global Gold Industry

- ✓ 10 consecutive years of dividend increases
- ✓ >\$885M paid since IPO
- ✓ IPO investors now realizing 6% yield (U.S.) or 8% yield (CDN)



Upcoming

Early April



May 9, 2018

- ✓ Q1 2018 Results
- ✓ AGM
- ✓ 10th Anniversary Celebration

Appendix – Non-IFRS Measures

1. GEOs include our gold, silver, platinum, palladium and other mineral assets. GEOs are estimated on a gross basis for NSR royalties and, in the case of stream ounces, before the payment of the per ounce contractual price paid by the Company. For NPI royalties, GEOs are calculated taking into account the NPI economics. Platinum, palladium, silver and other minerals are converted to GEOs by dividing associated revenue, which includes settlement adjustments, by the relevant gold price. The gold price used in the computation of GEOs earned from a particular asset varies depending on the royalty or stream agreement, which may make reference to the market price realized by the operator, or the average for the month, quarter, or year in which the mineral was produced or sold. For years 2010 through 2015, please refer to the relevant Annual MD&A for a reconciliation to the closest IFRS measures.
2. Adjusted Net Income and Adjusted Net Income per share are non-IFRS financial measures, which exclude the following from net income and net income per share: foreign exchange gains/losses and other income/expenses; impairment charges related to royalty, stream and working interests and investments; gains/losses on sale of royalty interests; gains/losses on investments; unusual non-recurring items; and the impact of income taxes on these items. Please refer to the 2017 Annual MD&A for details as to the relevance of these non-IFRS measures, and to the following appendix for a reconciliation to the closest IFRS measures for 2017 and 2016.
3. Adjusted EBITDA and Adjusted EBITDA per share are non-IFRS financial measures, which exclude the following from net income and net income per share: income tax expense/recovery; finance expenses; finance income; depletion and depreciation; non-cash costs of sales; impairment charges related to royalty, stream and working interests and investments; gains/losses on sale of royalty interests; gains/losses on investments; and foreign exchange gains/losses and other income/expenses. Please refer to the 2017 Annual MD&A for details as to the relevance of these non-IFRS measures, and to the following appendix for a reconciliation to the closest IFRS measures for 2017 and 2016.
4. Margin is defined by the Company as Adjusted EBITDA divided by revenue. Please refer to the 2017 Annual MD&A for details as to the relevance of these non-IFRS measures, and to the following appendix for a reconciliation to the closest IFRS measures for 2017 and 2016. For years 2010 through 2015, please refer to the relevant Annual MD&A for a reconciliation to the closest IFRS measures.
5. The Company defines Working Capital as current assets less current liabilities.
6. Fiscal years 2010 through 2017 were prepared in accordance with IFRS. Fiscal years 2008 and 2009 were prepared in accordance with Canadian GAAP

	Gold	Silver	Platinum	Palladium
Q4 2016	\$1,218/oz	\$17.18/oz	\$944/oz	\$684/oz
Q4 2017	\$1,274/oz	\$16.70/oz	\$920/oz	\$993/oz

Appendix – Non IFRS Measures

	For the three months ended December 31,		For the year ended December 31,	
(expressed in millions, except per share amounts)	2017	2016	2017	2016
Net Income	\$ 43.5	\$ (4.5)	\$ 194.7	\$ 122.2
Income tax expense	16.9	13.4	41.3	45.7
Finance expenses	1.0	0.8	3.4	3.6
Finance income	(1.8)	(0.9)	(5.4)	(3.5)
Depletion and depreciation	63.8	67.2	273.0	273.8
Non-cash costs of sales	3.0	1.2	7.7	6.5
Impairment charges	—	67.5	—	67.5
Impairment of investments	4.5	—	4.5	—
Gain on sale of royalty interest	—	(14.1)	—	(14.1)
Gain on investments	(2.0)	(7.9)	(2.0)	(12.4)
Foreign exchange (gains)/losses and other (income)/expenses	(0.9)	(0.5)	(1.1)	(0.2)
Adjusted EBITDA	\$ 128.0	\$ 122.2	\$ 516.1	\$ 489.1
Basic weighted average shares outstanding	185.5	178.3	182.9	175.2
Adjusted EBITDA per share	\$ 0.69	\$ 0.69	\$ 2.82	\$ 2.79

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Adjusted EBITDA	\$ 128.0	\$ 122.2	\$ 516.1	\$ 489.1
Revenue	167.2	155.3	675.0	610.2
Margin	76.6 %	78.7 %	76.5 %	80.2 %

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Impairment of investments	4.5	—	4.5	—
Gain on sale of royalty interest	—	(14.1)	—	(14.1)
Gain on investments	—	(7.9)	—	(12.4)
Tax effect of adjustments	1.0	4.3	(0.1)	4.7
Other tax related adjustments:				
Valuation allowance	—	(2.5)	0.1	(4.4)
Utilization of tax attributes for which no deferred tax asset was previously recognized	(1.3)	—	(5.1)	—
U.S. Tax Reform Impact	7.1	—	7.1	—
Impact of tax increases	—	0.6	—	1.0
Adjusted Net Income	\$ 52.1	\$ 42.9	\$ 198.3	\$ 164.4
Basic weighted average shares outstanding	185.5	178.3	182.9	175.2
Basic EPS	\$ 0.23	\$ (0.03)	\$ 1.06	\$ 0.70
Foreign exchange (gains)/losses and other (income)/expenses	(0.01)	—	(0.01)	—
Impairment charges	—	0.37	—	0.38
Impairment of investments	0.02	—	0.02	—
Gain on sale of royalty interest	—	(0.08)	—	(0.08)
Gain on investments	—	(0.03)	—	(0.07)
Tax effect of adjustments	0.01	0.02	—	0.03
Other tax related adjustments:				
Valuation allowance	—	(0.01)	—	(0.03)
Utilization of tax attributes for which no deferred tax asset was previously recognized	(0.01)	—	(0.03)	—
U.S. Tax Reform Impact	0.04	—	0.04	—
Impact of tax increases	—	—	—	0.01
Adjusted Net Income per share	\$ 0.28	\$ 0.24	\$ 1.08	\$ 0.94