

SILVER STANDARD

CREATING VALUE

April 2017 Corporate Presentation

Cautionary Notes

Cautionary Note Regarding Forward-Looking Statements
This presentation contains forward-looking information within the meaning of Canadian securities laws and forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995 (collectively, "forward-looking statements"). All statements, other than statements of historical fact, are forward-looking statements. Generally, forward-looking statements can be identified by the use of words or phrases such as "expects," "anticipates," "plans," "projects," "estimates," "assumes," "intends," "strategy," "goals," "objectives," "potential," "believes," or variations thereof, or stating that certain actions, events or results "may," "could," "would," "might" or "will" be taken, occur or be achieved, or the negative of any of these terms or similar expressions. These forward-looking statements or information relate to, among other things: our ability to complete and successfully integrate Golden Arrow Resources Corporation's ("Golden Arrow") Chinchillas project, on a joint venture basis, into our current operations; future production of precious metals; future costs of inventory, and cash costs per payable ounce of precious metals sold; expected exploration and development expenditures; the prices of precious metals; the timing of cessation of stockpile processing at the Pirquitas mine; the effects of laws, regulations and government policies affecting our operations or potential future operations; future successful development of our projects; the sufficiency of our current working capital, anticipated operating cash flow or our ability to raise necessary funds; estimated production rates for precious metals; timing of development and production and the cash costs and total costs of production at the Marigold mine, the Seabee Gold Operation and the Pirquitas mine; the estimated cost of sustaining capital; ability to extend life of Pirquitas operations; impact of Chinchillas project on local communities; expected operating costs; the estimated cost of sustaining capital; estimated initial capital expenditures at the Chinchillas project; expected ore supply generated from the Chinchillas project; expected composition of mining fleet at the Chinchillas project; outcome of permitting process for the Chinchillas project; ongoing or future development plans and capital replacement, improvement or remediation programs; the estimates of expected or anticipated economic returns from our mining projects, including future sales of metals, concentrate or other products; our ability to expand Mineral Resources and convert Mineral Resources into Mineral Reserves; and our plans and expectations for our properties and operations.

These forward-looking statements are subject to a variety of known and unknown risks, uncertainties and other factors that could cause actual events or results to differ from those expressed or implied, including, without limitation, the following: uncertainty of production, development plans and cost estimates for the Marigold mine, the Seabee Gold Operation, the Pirquitas mine and our projects; our ability to replace Mineral Reserves; our ability to complete and successfully integrate Golden Arrow's Chinchillas project, on a joint venture basis, into our current operations; ability to obtain necessary permits for the Chinchillas project; ability to satisfy closing conditions and successfully form the joint venture with Golden Arrow; commodity price fluctuations; political or economic instability and unexpected regulatory changes; currency fluctuations; the possibility of future losses; general economic conditions; fully realizing the value of our shareholdings in Pretium Resources Inc. and our other marketable securities, due to changes in price, liquidity or disposal cost of such marketable securities; export duty and related interest on past production and sales of silver concentrate from the Pirquitas mine; counterparty and market risks related to the sale of our concentrate and metals; uncertainty in the accuracy of Mineral Reserves and Mineral Resources estimates and in our ability to extract mineralization profitably; differences in U.S. and Canadian practices for reporting Mineral Reserves and Mineral Resources; lack of suitable infrastructure or damage to existing infrastructure; future development risks, including start-up delays and cost overruns; our ability to obtain adequate financing for further exploration and development programs and opportunities; uncertainty in acquiring additional commercially mineable mineral rights; delays in obtaining or failure to obtain governmental permits, or non-compliance with our permits; our ability to attract and retain qualified personnel and management; potential labour unrest, including labour actions by our unionized employees at the Pirquitas mine; the impact of governmental regulations, including health, safety and environmental regulations, including increased costs and restrictions on operations due to compliance with such regulations; reclamation and closure requirements for our mineral properties; social and economic changes following closure of a mine, including the anticipated closure of the Pirquitas mine in late 2017 or early 2018, may lead to adverse impacts and unrest; unpredictable risks and hazards related to the development and operation of a mine or mineral property that are beyond our control; indigenous peoples' title claims and rights to consultation and accommodation may affect our existing operations as well as development projects and future acquisitions; assessments by taxation authorities in multiple jurisdictions; recoverability of value added tax and significant delays in the collection process in Argentina; claims and legal proceedings, including adverse rulings in litigation against us and/or our directors or officers; compliance with anti-corruption laws and internal controls, and increased regulatory compliance costs; complying with emerging climate change regulations and the impact of climate change; fully realizing our interest in deferred consideration received in connection with recent divestitures; uncertainties related to title to our mineral properties and the ability to obtain surface rights; the sufficiency of our insurance coverage; civil disobedience in the countries where our mineral properties are located; operational safety and security risks; actions required to be taken by us under human rights law; competition in the mining industry for mineral properties; our ability to complete and successfully integrate an announced acquisition; an event of default under our convertible notes may significantly reduce our liquidity and adversely affect our business; failure to meet covenants under our senior secured revolving credit facility; conflicts of interest that could arise from certain of our directors' and officers' involvement with other natural resource companies; information systems security threats; and those various risks and uncertainties identified under the heading "Risk Factors" in our most recent Annual Information Form filed with the Canadian securities regulatory authorities and Annual Report on Form 40-F filed with the U.S. Securities and Exchange Commission ("SEC").

The foregoing list is not exhaustive of all factors and assumptions which may have been used. We cannot assure you that actual events, performance or results will be consistent with these forward-looking statements, and management's assumptions may prove to be incorrect. Our forward-looking statements reflect current expectations regarding future events and operating performance and speak only as of the date hereof and we do not assume any obligation to update forward-looking statements if circumstances or management's beliefs, expectations or opinions should change other than as required by applicable law. For the reasons set forth above, you should not place undue reliance on forward-looking statements. All references to "$" in this presentation are to U.S. dollars unless otherwise stated.

Qualified Persons: Except as otherwise set out herein, the scientific and technical information contained in this presentation relating to the Marigold mine has been reviewed and approved by Thomas Rice and James N. Carver, each of whom is a SME Registered Member, a Qualified Person under National Instrument 43-101 — Standards of Disclosure for Mineral Projects ("NI 43-101") and our employee. The scientific and technical data relating to the Seabee Gold Operation has been reviewed and approved by F. Carl Edmunds, P. Geo., a Qualified Person under NI 43-101 and our employee. The scientific and technical information relating to the Pirquitas mine and the Chinchillas project has been reviewed and approved by Bruce Butcher, P.Eng., a Qualified Person under NI 43-101 and our employee.

Cautionary Note to U.S. Investors
This presentation includes Mineral Reserves and Mineral Resources classification terms that comply with reporting standards in Canada and the Mineral Reserves and the Mineral Resources estimates are made in accordance with NI 43-101. NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. These standards differ significantly from the requirements of the SEC set out in SEC Industry Guide 7. Consequently, Mineral Reserves and Mineral Resources information included in this presentation is not comparable to similar information that would generally be disclosed by domestic U.S. reporting companies subject to the reporting and disclosure requirements of the SEC. Under SEC standards, mineralization may not be classified as a "reserve" unless the determination has been made that the mineralization could be economically produced or extracted at the time the reserve determination is made. In addition, the SEC's disclosure standards normally do not permit the inclusion of information concerning "Measured Mineral Resources," "Indicated Mineral Resources" or "Inferred Mineral Resources" or other descriptions of the amount of mineralization in mineral deposits that do not constitute "reserves" by U.S. standards in documents filed with the SEC.

Cautionary Note Regarding Non-GAAP Measures
This presentation includes certain terms or performance measures commonly used in the mining industry that are not defined under International Financial Reporting Standards ("IFRS"), including cash costs per payable ounce of precious metals sold, realized metal prices and adjusted net income (loss) and adjusted basic earnings (loss) per share. Non-GAAP financial measures do not have any standardized meaning prescribed under IFRS and, therefore, may not be comparable to similar measures reported by other companies. We believe that, in addition to conventional measures prepared in accordance with IFRS, certain investors use this information to evaluate our performance. The data presented is intended to provide additional information and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with IFRS. These non-GAAP measures should be read in conjunction with our consolidated financial statements. Readers should refer to our management's discussion and analysis, available under our corporate profile at www.sedar.com or on our website at www.silverstandard.com, under the heading "Non-GAAP and Additional GAAP Financial Measures" for a more detailed discussion of how we calculate such measures and for a reconciliation of such measures to IFRS terms.

High-Quality Intermediate Precious Metals Producer

Production Growth and Scale

- Three mining operations with prospective land positions
- Produced record 393,325 oz AuEq in 2016
- Produced 97,851 oz AuEq in Q1 2017

Generating Free Cash Flow

- Operating cash flow of $171M *(FY 2016)*
- Net income of $65M *(FY 2016)*

Creating Mine Life Extension

- Developing the Chinchillas project to extend Pirquitas plant life
- Increased gold Mineral Reserves at Marigold and Seabee
- Targeting Mineral Resources growth at Marigold and Seabee in 2017

Strong Financial Position

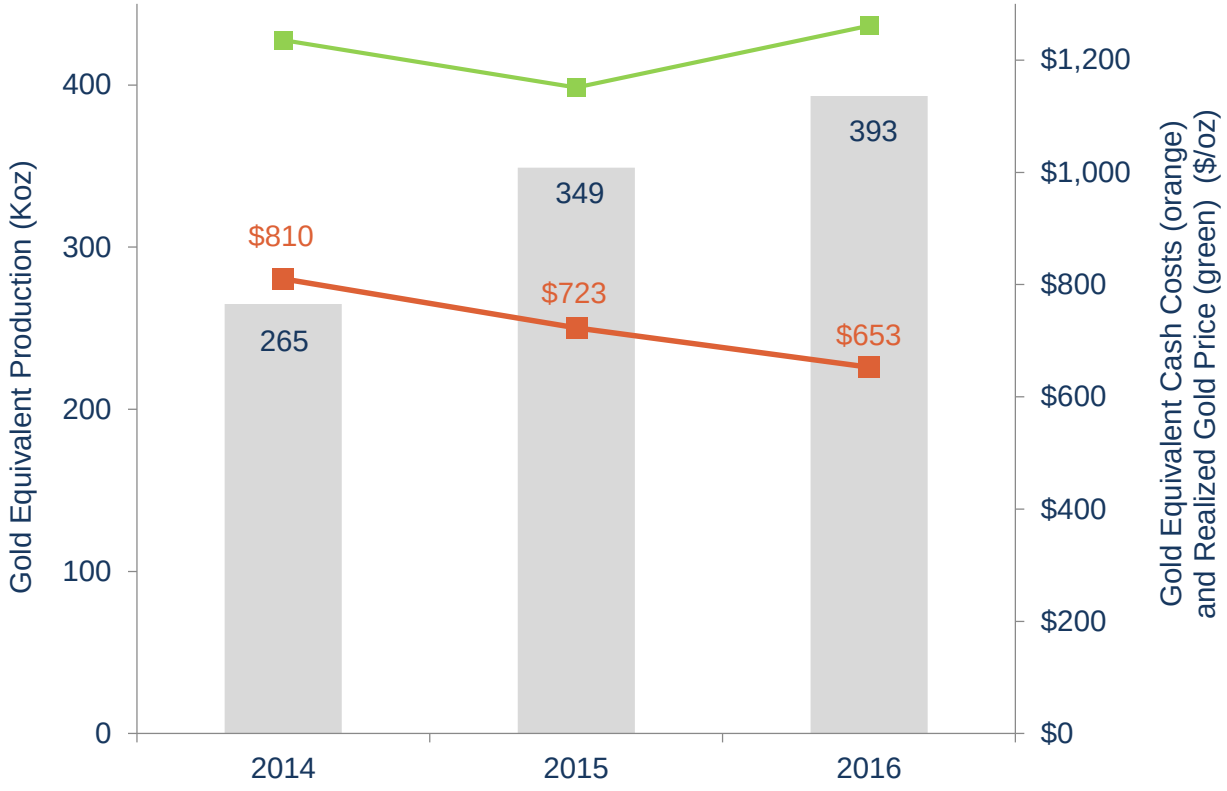
- Cash of $327M, 54% increase year-on-year
- Marketable securities of $149M, 69% increase year-on-year
- Convertible notes of $265M



Notes: Gold equivalent production is calculated based on the mid-point of previously announced 2016 guidance for our three operations, with silver converted to gold equivalent at a 75:1 ratio. For additional information see our news releases dated February 23, 2017 and April 11, 2017.

Delivering Scale and Margin

Record Gold Equivalent Production in 2016



12%

Increase in Production year-on-year

10%

Decrease in Cash Costs year-on-year

Notes: Gold Eq. ounces have been established using the realized silver price and the weighted average realized gold price at each of our operations in the respective years and applied to the recovered metal content of the gold and silver ounces produced, as applicable. Realized metal prices and cash costs are non-GAAP financial measures. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation.

Strong Outlook in 2017

	Marigold	Seabee	Pirquitas	Silver Standard
	Gold	Gold	Silver	Gold Equivalent
Production	205K – 215K oz	72K – 82K oz	4.5M – 5.5M oz	340K – 370K oz
Cash Costs *(US$/oz)*	$655/oz – $705/oz	$575/oz – $625/oz	$13.50/oz – $16.00/oz *	$700/oz – $770/oz

Mid-point Guidance 355,000 oz AuEq at $735/oz cash costs in 2017

* As cash costs are reported on a per payable ounce sold basis, 2017 expected cash costs include stockpile inventory costs of approximately $3.50 per ounce of silver previously incurred.
Notes: For discussion of 2017 guidance, refer to our news release dated February 23, 2017. Gold equivalent production and cash costs are calculated based on the mid-point of our 2017 production and cash costs guidance for our three operations, with silver converted to gold equivalent at a 71:1 ratio. Cash costs is a non-GAAP financial measure. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation.



MARIGOLD
GROWTH IN NEVADA

Track Record of Performance and Growth

- Open pit, run-of-mine heap leach gold operation
- Continuous production since 1988
- Strong safety and environmental practices
- Excellent infrastructure
- 205,116 oz Au production at $647/oz cash costs in 2016
- 55,215 oz Au production in Q1 2017
- Exploration drilling for Mineral Resource expansion



Long Mine Life — 8-year Mineral Reserve life with potential to extend

Note: Cash costs is a non-GAAP financial measure. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation.

Marigold Operating Outlook

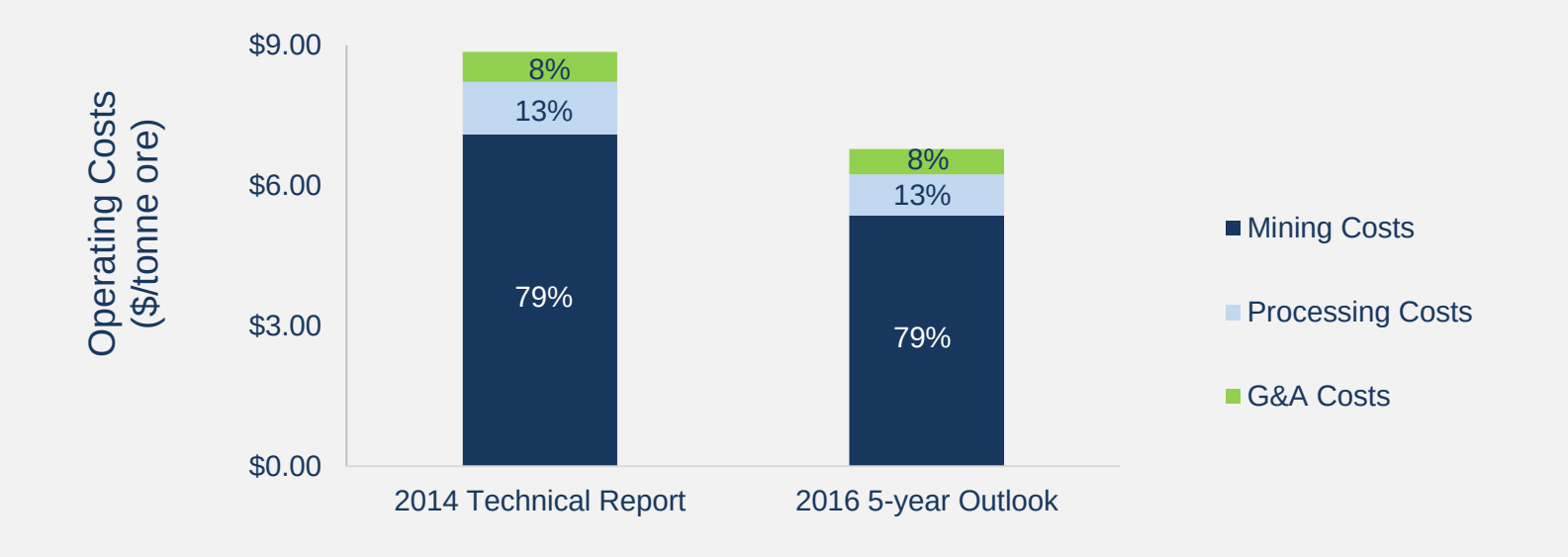
	2017	2018	2019	2020	2021
Gold production (Koz)	205 – 215	200 – 210	225 – 235	205 – 215	230 – 240
Cash costs ($/oz)	$655 – $705	$830 – $880	$740 – $790	$660 – $710	$550 – $600
Capital investment ($M)	$30	$35	$25	$20	$25
Capitalized deferred stripping ($M)	$17	$15	$15	$30	$70

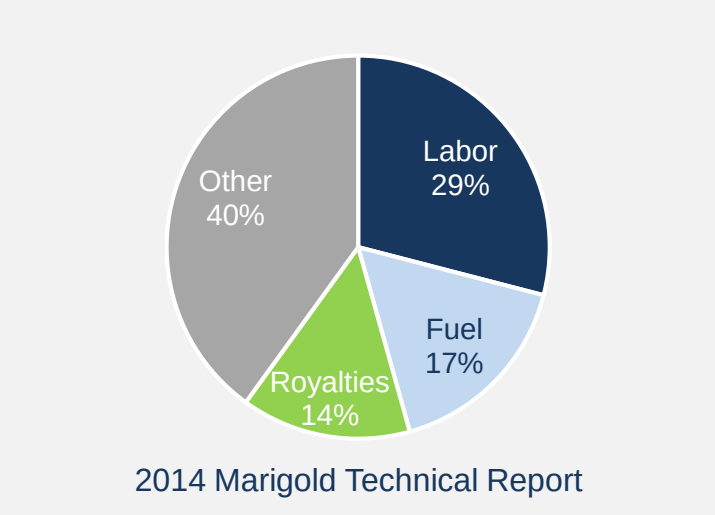
Expanding Margins Forecast average annual production up by 35K oz Au at reduced cash costs

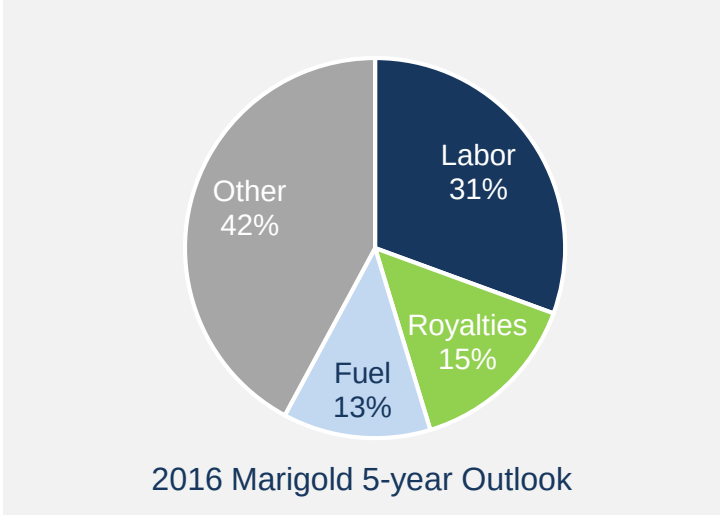
Notes: Elevated deferred stripping activity in 2020 and 2021 relates to stripping further phases of the mine plan that is expected to benefit future periods and support mine life extension. Please refer to our news release dated September 15, 2016. Cash costs is a non-GAAP financial measure. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation.

Lower Operating Cost Profile

Focus and Discipline for Long Term Value







Note: Please refer to our news release dated September 15, 2016. Operating cost breakdown is based on the average operating cost for the period from 2017 to 2021 and does not include sustaining capital investment.

Creating Value with Operational Excellence

DRILL



Reduced drills to four from six

BLAST



Improved blasting pattern / products and loading sequence

LOAD

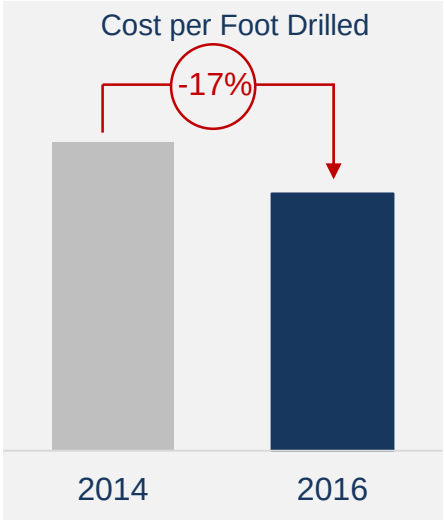


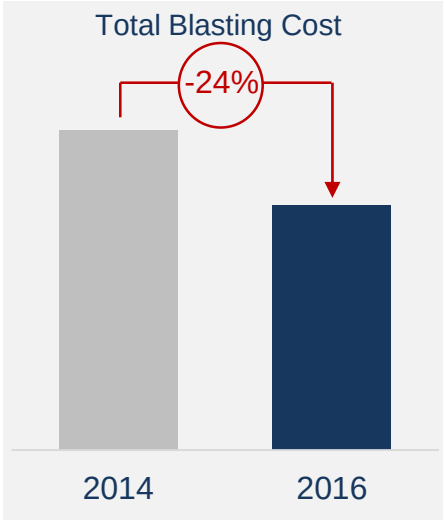
Used most effective shovel operator to train others

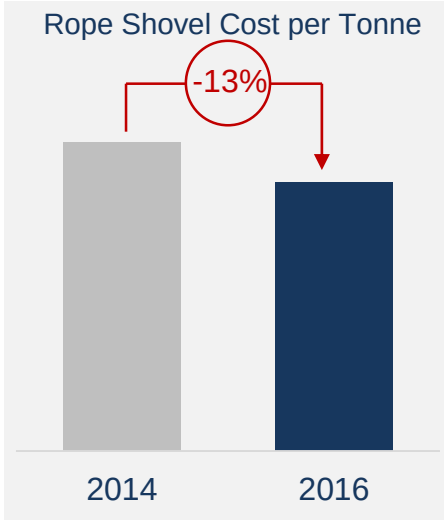
HAUL

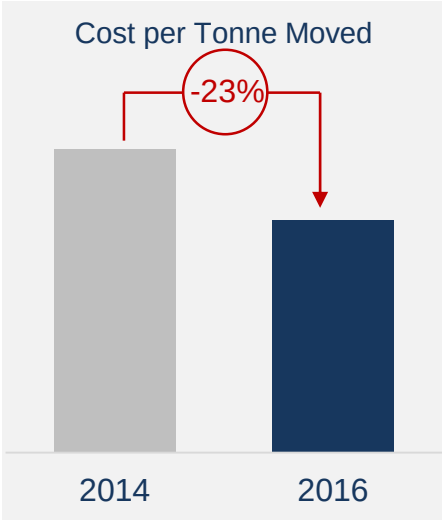


Implemented a 'hot shift change' for truck operators



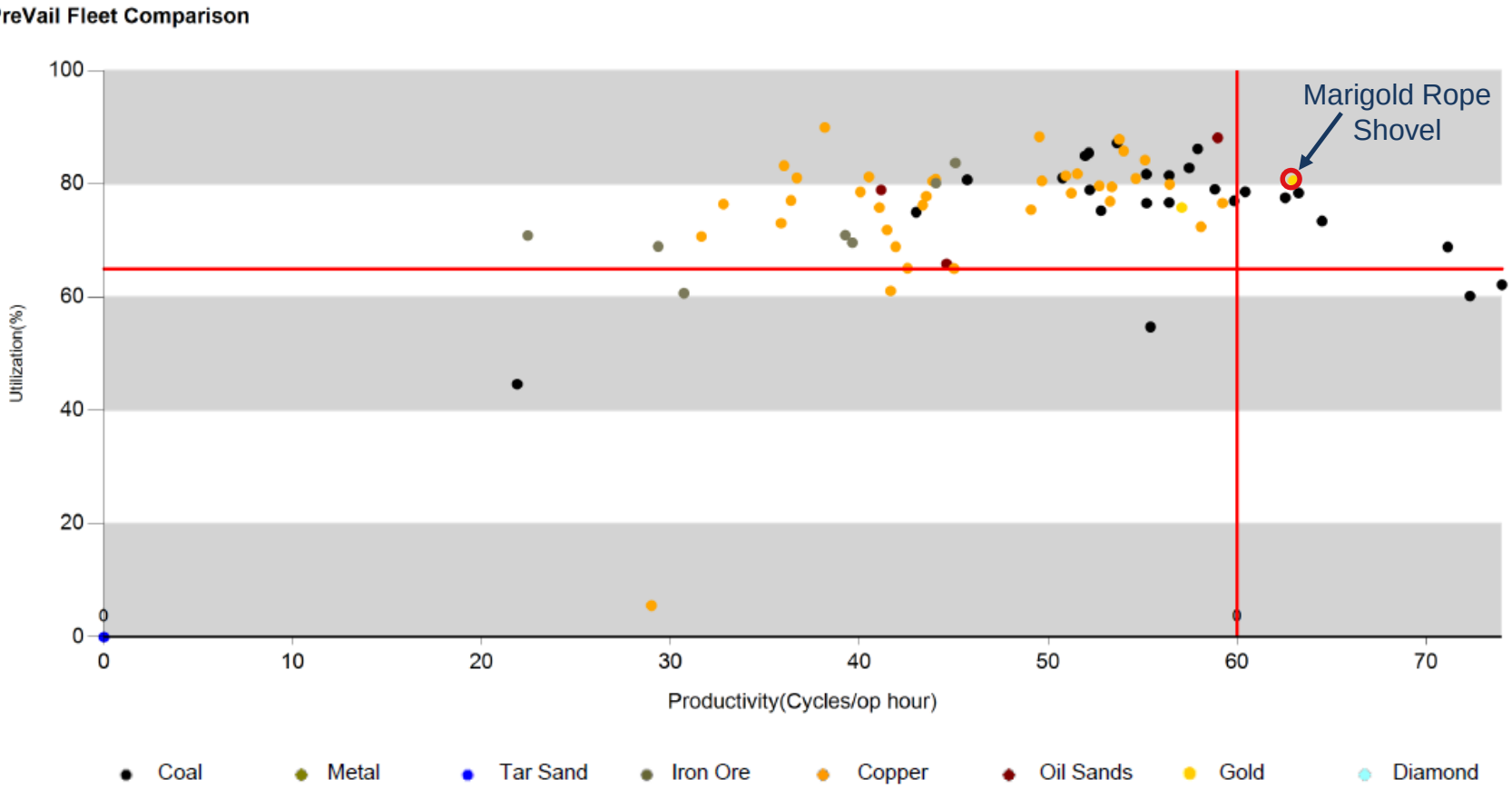






Leader in Productivity and Utilization

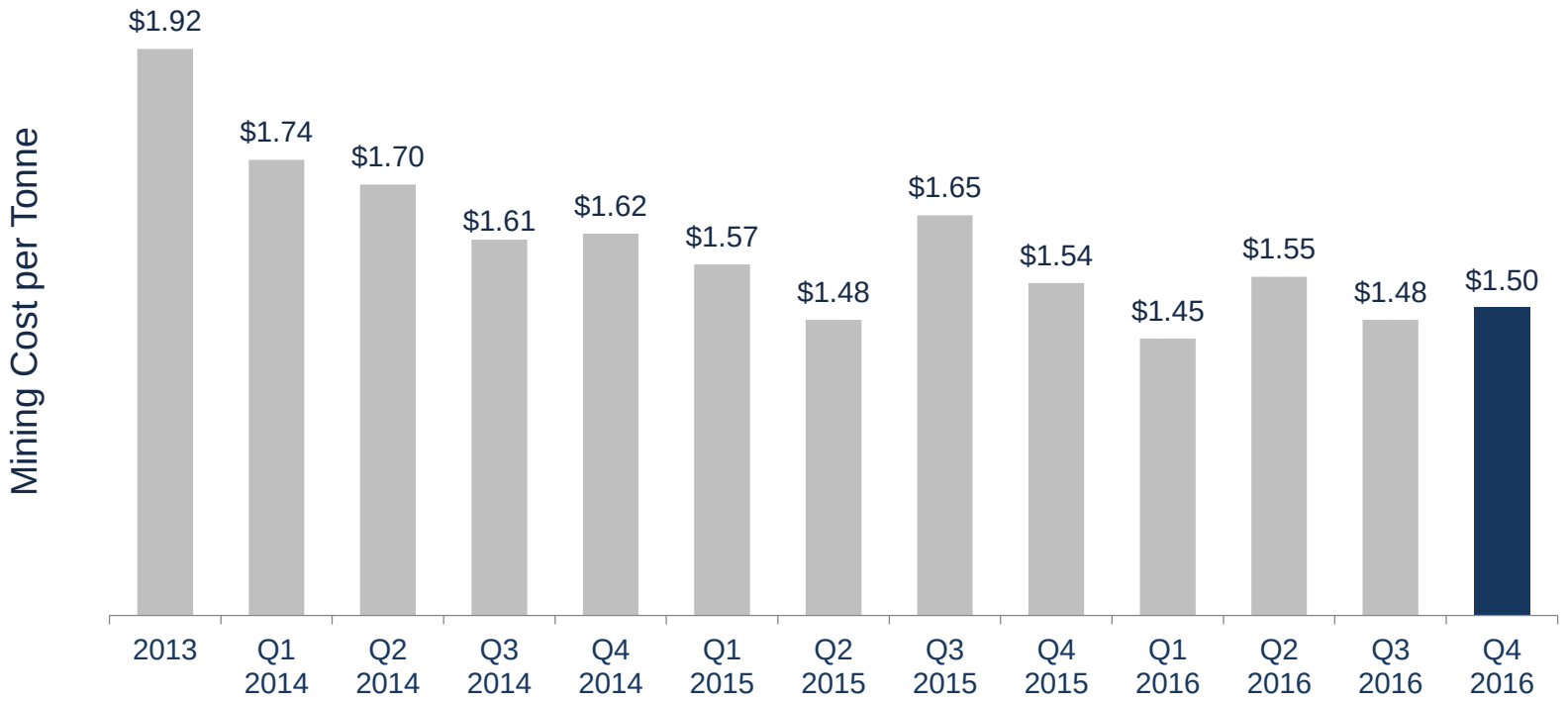
Marigold Rope Shovel



Note: Marigold 4100 XPC-AC Rope Shovel compared to information provided by Joy Global benchmark study for the period January 1, 2017 to February 1, 2017 with respect to rope shovel operating practices at certain precious, base metal and diamond mines.

Operational Excellence is Fundamental

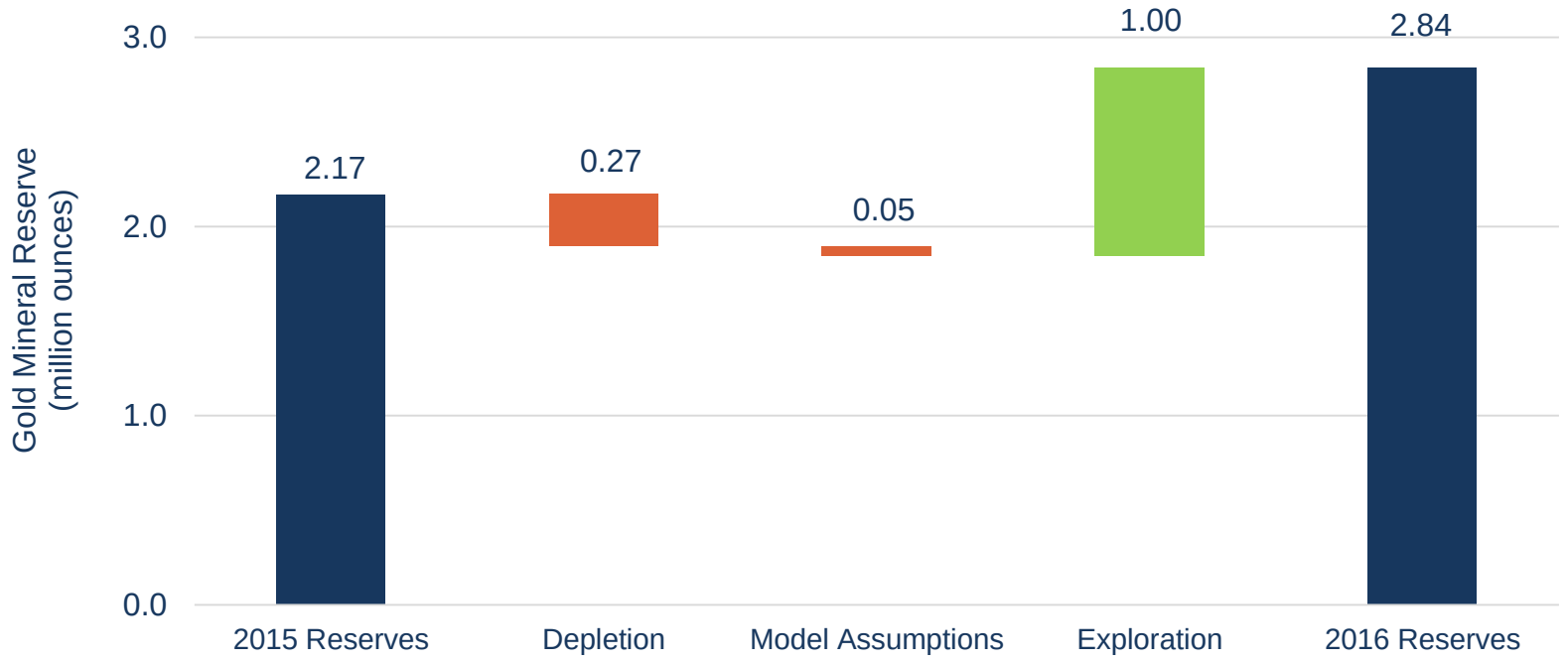
Long-term Cost Savings at Marigold



Lowering Costs Savings of 1¢ cost per tonne mined = $800,000 annually

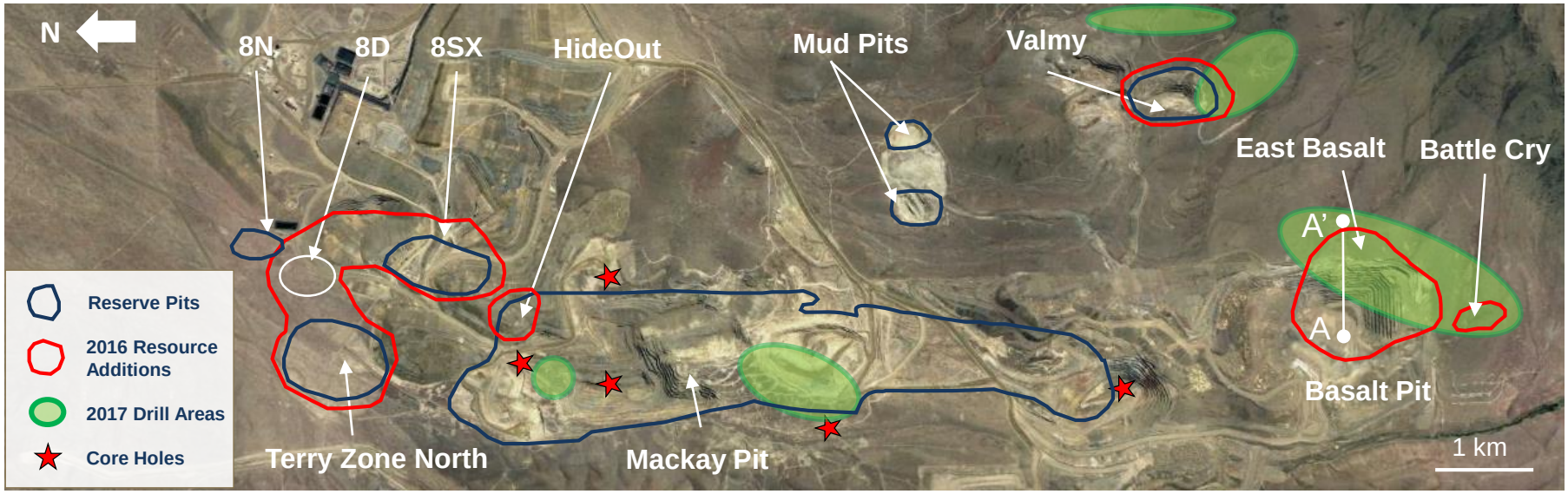
Notes: Annual savings of $800,000 based on assumption of 80 million tonnes of material moved annually. Please see "Cautionary Notes" in this presentation.

Marigold Mineral Reserves Increase 30%



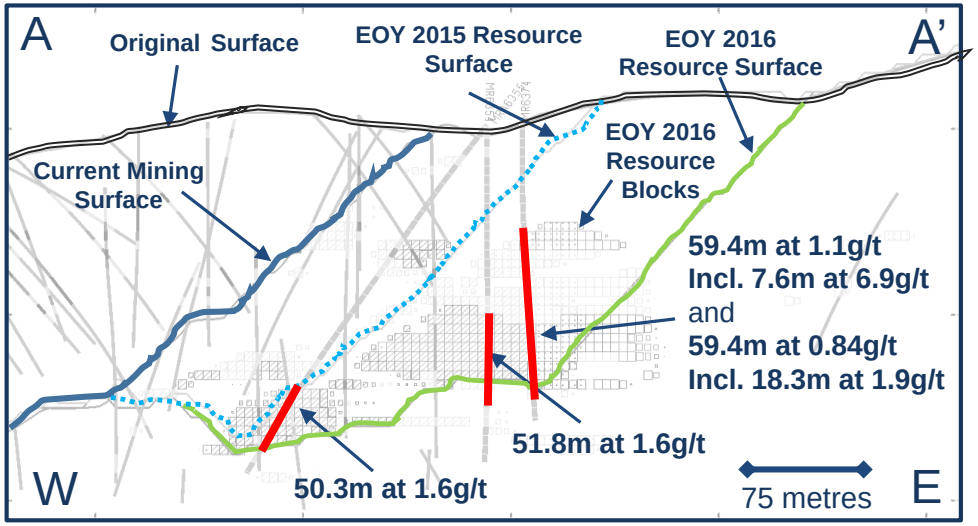
Notes: Mineral Reserves are based on $1,250/oz gold price assumption. Mineral Reserves include 0.17 million ounces of leach pad inventory. Gold Probable Mineral Reserves have a grade of 0.45 g/t. Mineral Reserves figures have some rounding applied, and thus totals may not sum exactly. Please refer to “Cautionary Notes” and “Reserves & Resources: Notes to Tables” in this presentation.

Exploration Success and Resource Conversion



Higher-grade discoveries since 2014

- 8SX: 91.4 m at 2.48 g/t Au
- 8D: 164.6 m at 1.67 g/t Au
- HideOut: 76.2 m at 2.47 g/t Au
- Terry Zone North: 39.6 m at 1.56 g/t Au
- Valmy: 59.4 m at 1.65 g/t Au
- East Basalt: 59.4 m at 1.1 g/t Au and 59.4 m at 0.84 g/t Au



Notes: See news releases dated July 6, 2015, September 18, 2015, May 9, 2016 and August 8, 2016 for selected drillhole highlights and reference data for the Marigold exploration drill program. See also "Cautionary Notes" and "Reserves & Resources: Notes to Tables" in this presentation.

SEABEE GOLD OPERATION
HIGH-GRADE GOLD MINE



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Seabee Gold Operation Overview

High-margin Underground Operation in a Stable Jurisdiction

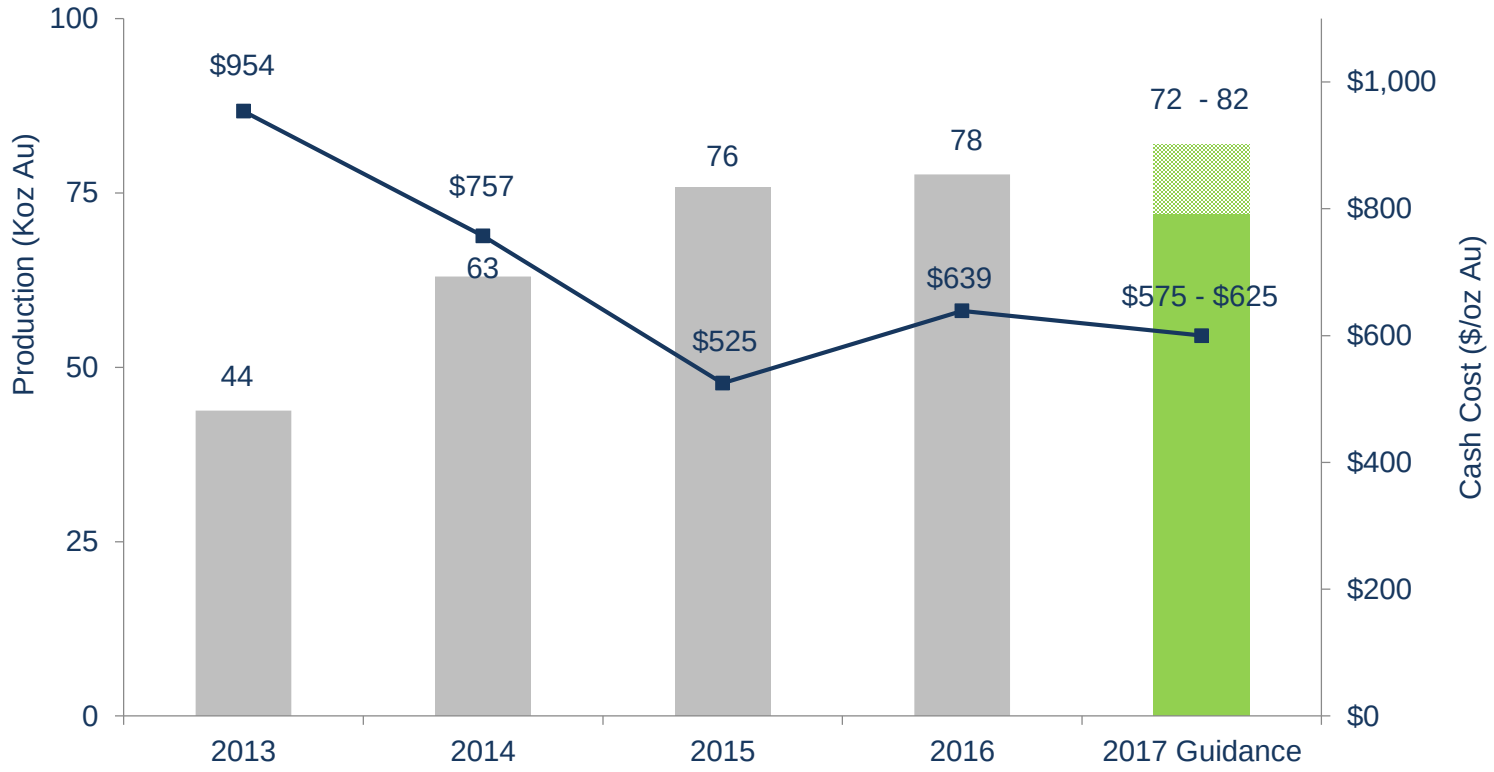
- High-grade, underground mine in Saskatchewan, Canada
- Mill operating since 1991 with current capacity of 900 tpd
- Strong safety and environmental practices
- 77,640 oz Au record production in 2016
- 21,023 oz Au production in Q1 2017
- Large underexplored land position of +23,000 ha
- Option agreement to explore the contiguous Fisher project



Notes: For information on the Fisher project, refer to our news release dated October 6, 2016. Please see "Cautionary Notes" in this presentation.

Improved Operating Profile

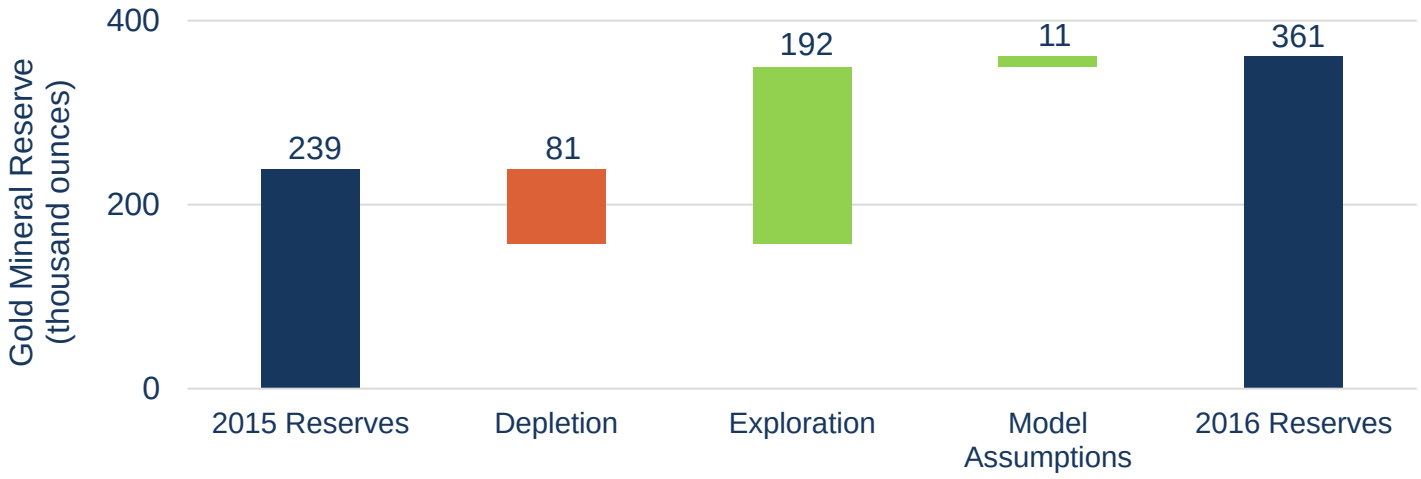
Higher Gold Grade and Lower Costs with Santoy Discovery



Notes: 2016 cash costs of $639/oz are for the period from May 31, 2016 to December 31, 2016, the period for which we were entitled to all economic benefits of the Seabee Gold Operation following our acquisition of Claude Resources. 2016 production is for the full fiscal year. For 2017 guidance, refer to our news release dated February 23, 2017. Cash costs is a non-GAAP financial measure. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation.

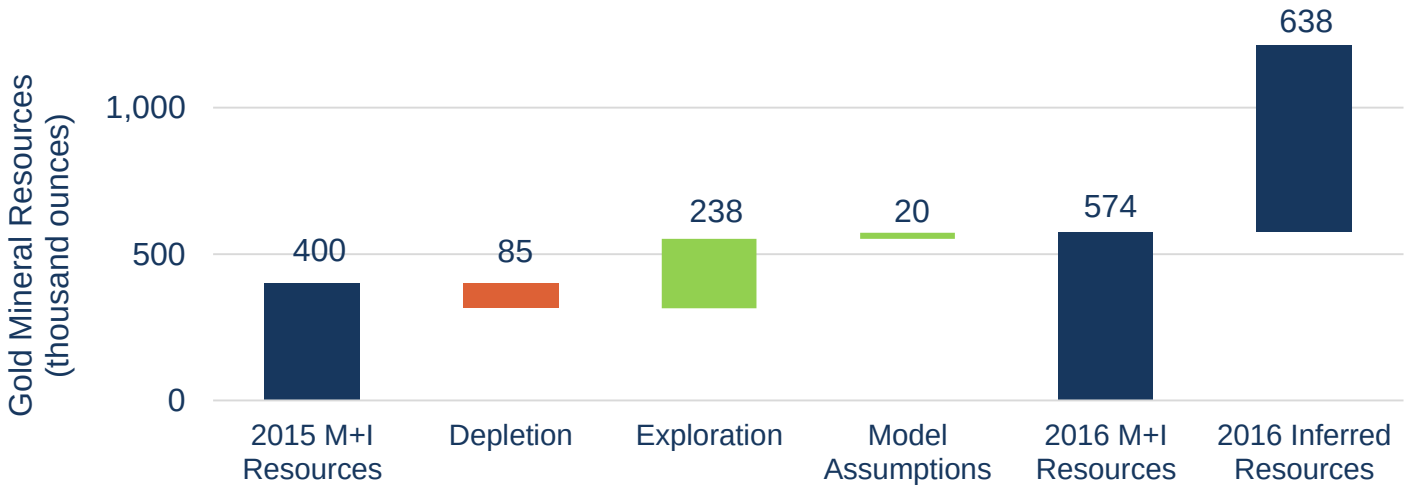
Reserve Gold Grade Increased to 8.2 g/t

Seabee 2016 Mineral Reserves and Resources



↑50%

Increase in Mineral Reserves year-on-year

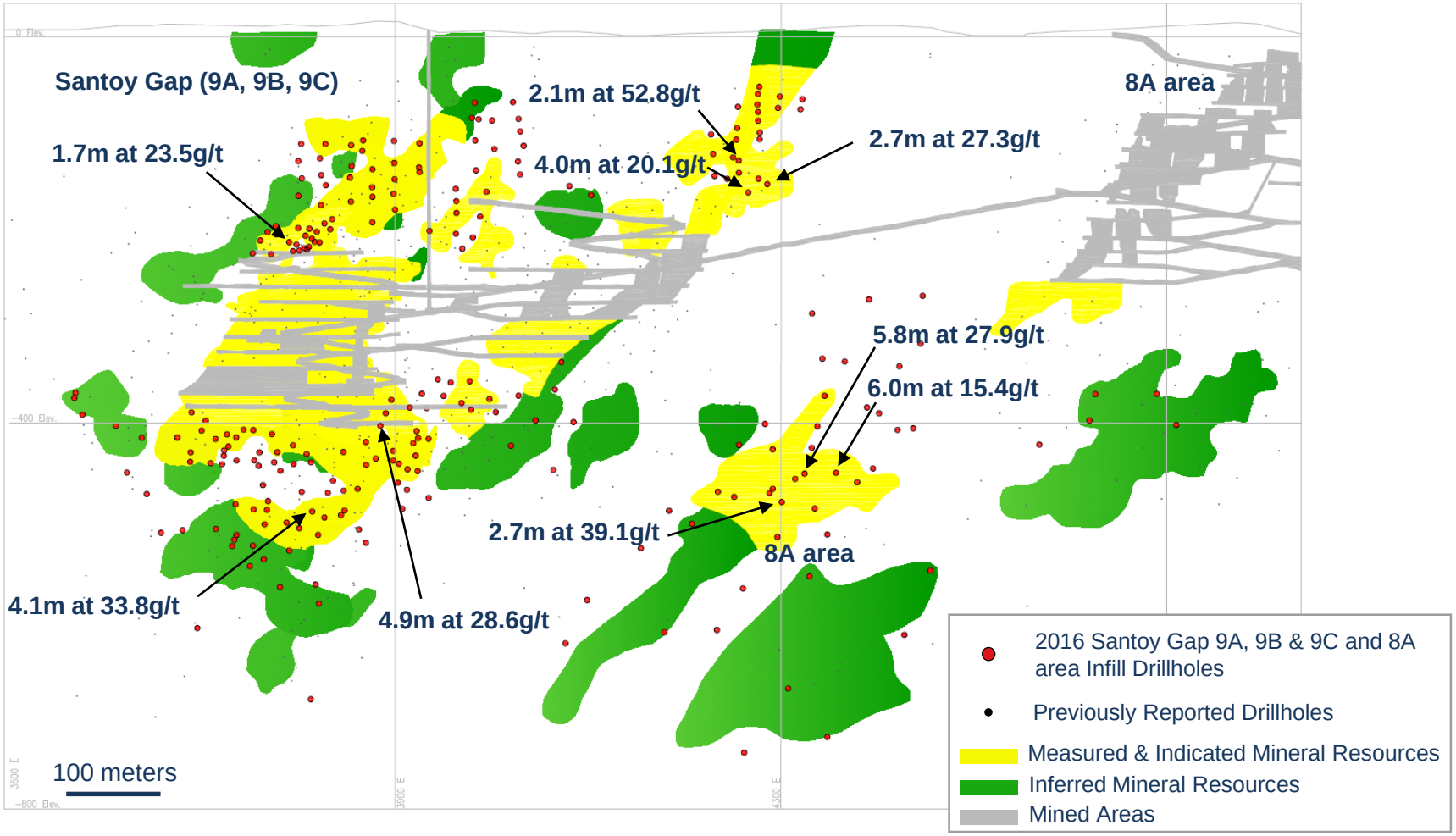


↑43%

Increase in M+I Mineral Resources year-on-year

Notes: "M+I" refers to Measured and Indicated Mineral Resources. Mineral Reserves and Mineral Resources figures have some rounding applied, and thus totals may not sum exactly. Mineral Reserves are based on $1,250/oz gold price and Mineral Resources are based on $1,400/oz gold price. Gold Proven and Probable Mineral Reserves have a grade of 8.19 g/t. Inferred Mineral Resources as at December 31, 2015 total 1.013 million ounces of gold as reported by Claude Resources. Measured and Indicated Mineral Resources are inclusive of Mineral Reserves. 2015 Measured and Indicated Mineral Resources of 400,000 ounces account for mining recovery, resulting in a higher figure compared to Claude Resources disclosures where Mineral Resources were reported exclusive of Mineral Reserves. Gold Measured and Indicated Mineral Resources have a grade of 7.99 g/t. Inferred Mineral Resources have a grade of 7.74 g/t. Please refer to "Cautionary Notes" and "Reserves & Resources: Notes to Tables" in this presentation.

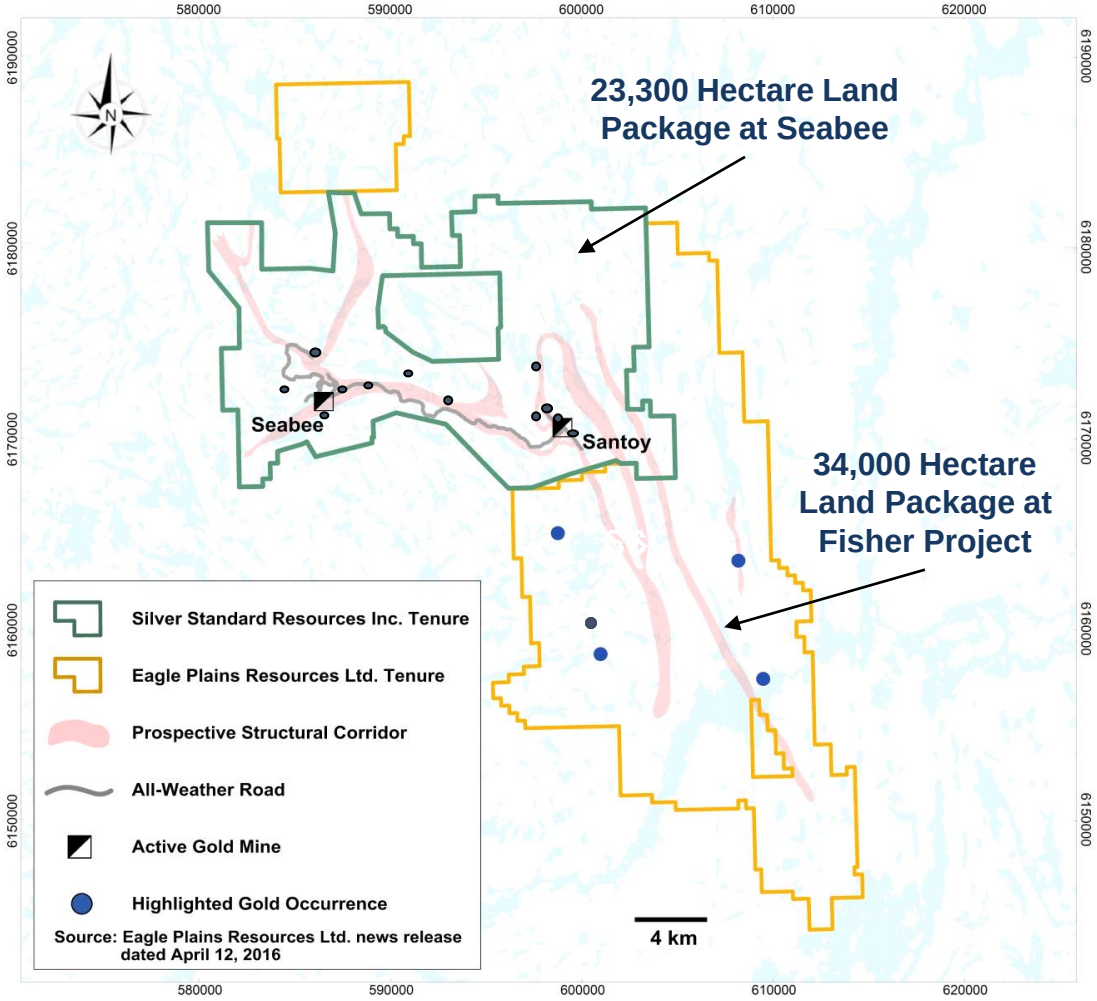
Exploration Success Increases Resources at Santoy



2017 Focus Targeting resource addition and conversion

Notes: Measured and Indicated Mineral Resources are inclusive of Mineral Reserves. See news releases dated August 8, 2016 and November 7, 2016 for drillhole highlights and reference data for the Seabee Gold Operation exploration program. See also “Cautionary Notes” and “Reserves & Resources: Notes to Tables” in this presentation.

Increased Land Package ~150% with Fisher Project



Underexplored

Well-positioned for discovery with $5M spend in 2017

Notes: Exploration spend for Claude Resources includes actual spend in 2013, 2014, and 2015. See “Cautionary Notes” in this presentation.



PIRQUITAS
LARGE-SCALE SILVER PRODUCER

Proven Capability and Delivery

Generated Free Cash Flow in 2016

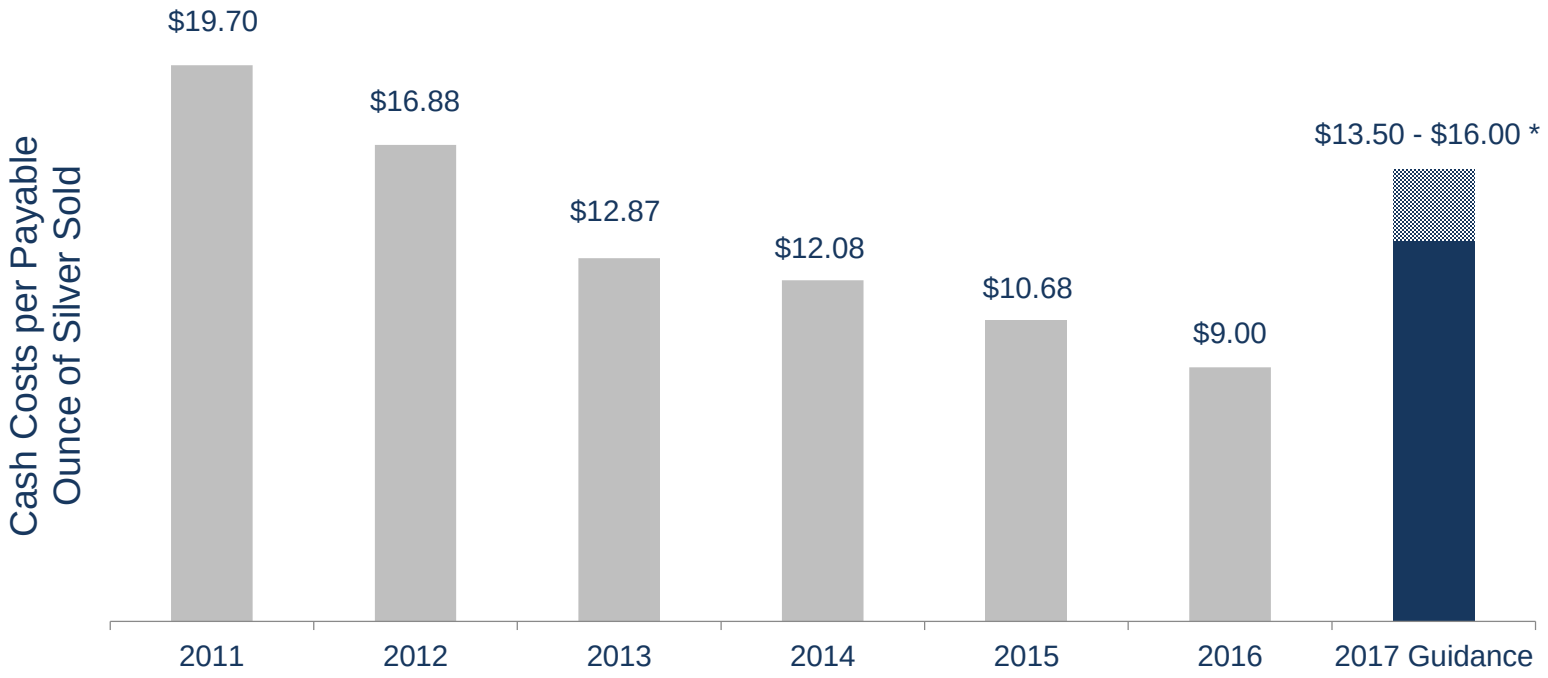
- Commercial production at Pirquitas achieved in 2009
- Plant processed +4,000 tpd producing a silver concentrate
- 10.4M oz Ag record annual production in 2016
- 1.5M oz Ag production in Q1 2017
- Open pit closure in January 2017 and stockpile processing throughout the remainder of the year
- Good safety record and solid stakeholder relations
- Elected to enter joint venture for Chinchillas project March 2017



Strong Track Record Achieved guidance for fifth consecutive year

Note: For further information on the Chinchillas project refer to our news release dated March 31, 2017 and to Golden Arrow's news release dated March 30, 2017. Please also refer to "Cautionary Notes" in this presentation.

Positioned to Generate Free Cash Flow in 2017



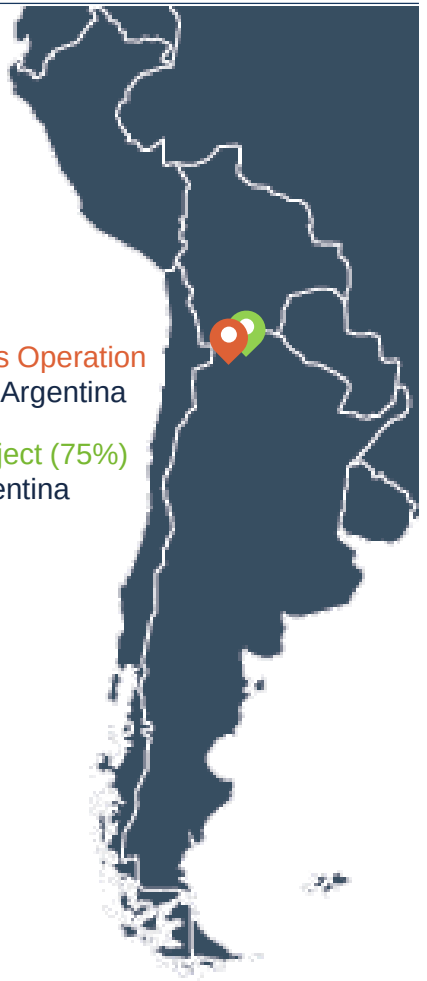
Year of Records Achieved record low costs and production at Pirquitas

* As cash costs are reported on a per payable ounce sold basis, 2017 expected cash costs include stockpile inventory costs of approximately $3.50 per ounce of silver previously incurred.
Notes: Cash costs is a non-GAAP financial measure. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation. Information for 2011 has not been restated for IFRIC 20, Stripping costs in the Production Phase of a Surface Mine.

Chinchillas Project Overview

Brownfields Development for Pirquitas Operating Life Extension

- Silver Standard to be JV operator with a 75% controlling interest in Chinchillas
- Chinchillas is a silver-lead-zinc deposit located 45 km from the Pirquitas plant and facilities
- Key milestones
  - Finalize JV agreement by May 30, 2017
  - Construction begins 3Q 2017 *(subject to permitting)*
  - First concentrate production expected H2 2018
- Opportunities: Pirquitas Underground and Mineral Resources conversion and addition



Value and Growth Chinchillas: Robust economics and short time to production

Notes: For further information refer to our news release dated March 31, 2017 on the Chinchillas project and to Golden Arrow's news release dated March 30, 2017. Please also refer to "Cautionary Notes" in this presentation.

Chinchillas Project Overview (100% Project Basis)

Near-term Production with Positive Pre-Feasibility Results

Mine life:	8 years
Total material mined:	66.6 M tonnes
Strip ratio:	4.7
Processing rate:	4,000 tpd
Average annual production (8 years active mining):	6.1 Moz Silver 35.0 Mlb Lead 12.3 Mlb Zinc 8.4 Moz Silver Eq
Total production	51.0 Moz Silver 71.0 Moz Silver Eq
Operating costs:	$2.88 / t mined mining costs $15.34 / t milled mining costs $14.72 / t milled processing cost $7.00 / t milled G&A costs $8.29 / t milled ore transport & other
Cash cost:	$7.40 / oz Silver *(net of by-products)*
AISC:	$9.75 / oz Silver *(net of by-products)*
Development capital:	$81 M
Sustaining capital:	$44 M
NPV:	$178 M *(post-tax, 5%)*
IRR:	29% *(post-tax)*



Mineral Reserves and Resources

	Tonnes	Ag	Pb	Zn	Ag	Pb	Zn
	Mt	g/t	%	%	Moz	Mlb	Mlb
P&P	11.7	154	1.20	0.49	58	310	127
M&I	29.3	101	0.90	0.60	96	581	386
Inf	20.9	50	0.54	0.81	34	250	374

Notes: All data is as reported by Silver Standard and Golden Arrow in our respective news release dated March 31, 2017. Cash costs are net of estimated capitalized stripping over the life of mine. Metal price assumptions include $19.50/oz silver, $0.95/lb lead and $1.00/lb zinc. Silver equivalent values are based on these metal price assumptions. Measured and Indicated Mineral Resources are inclusive of Mineral Reserves. Please refer to "Cautionary Notes" in this presentation and the slide entitled "Chinchillas Mineral Reserves and Resources".

Pirquitas Underground

Focused on Mine Life Extension

- Potential small-scale, high-grade ore feed from the Chocaya, Oploca and Cortaderas veins
- Positive drill results from 2015 drill program:
  - 3.16 meters at 1,436 g/t silver
  - 1.93 meters at 1,890 g/t silver
  - 0.83 meters at 2,670 g/t silver
- Re-evaluate Pirquitas UG Mineral Resources as a high-grade ore supply to supplement Chinchillas ore

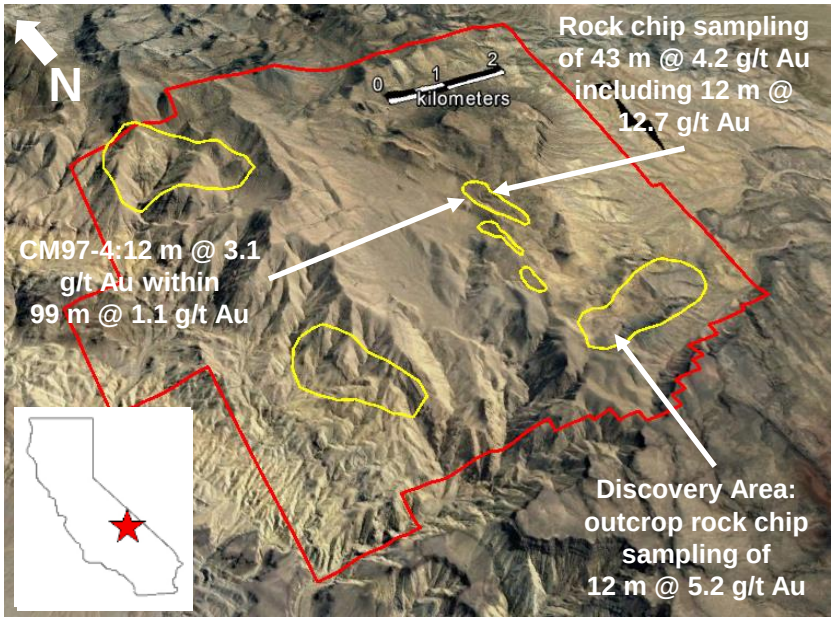


Notes: See news release dated September 21, 2015 for drillhole highlights and reference data for the Pirquitas exploration drill program. See also “Cautionary Notes”.

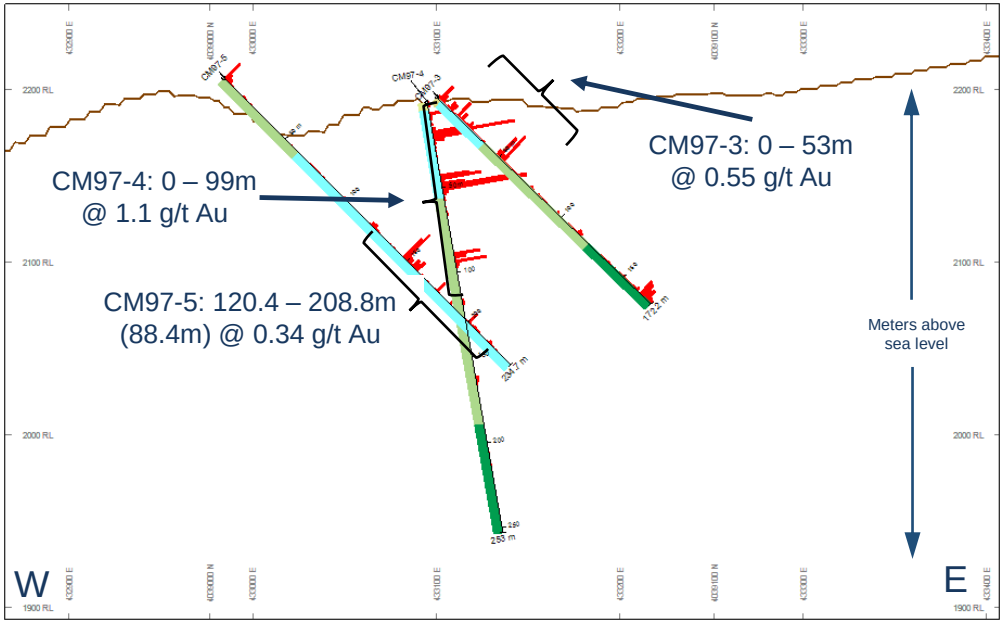
Perdito Project

High-grade, Carlin-type Sediment-hosted Gold Deposit in California

- Multiple, ready-to-drill targets
- $1M for drilling and field work in 2017; drill program planned for H1 2017
- Gold grades of up to 10.9 g/t confirmed by duplicate surface sampling
- Large land package of 5,780 hectares near major infrastructure
- 3-year option agreement to earn in 100% interest



Drill targets at Perdito project (yellow); Property outline (red)

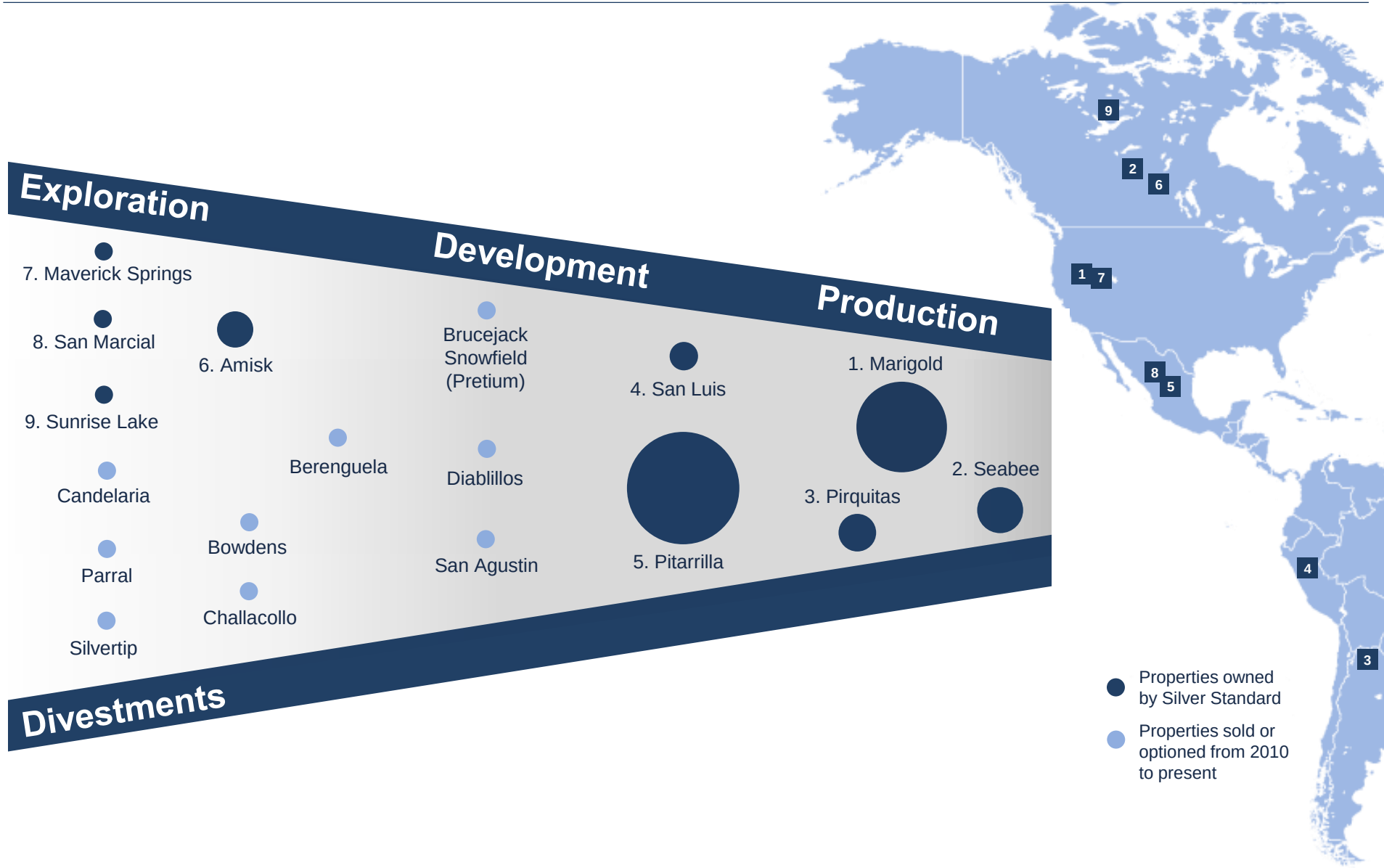


Cross section of drillholes CM97-3, CM97-4, CM97-5

Notes: See news release dated March 31, 2016 for information on the Perdito option agreement. Select drill intercepts presented are as reported by Great Bear Resources Ltd. in its news release dated April 8, 2013. All such drill intercepts are considered as "historical data" and have not been independently verified by us. See also "Cautionary Notes" in this presentation.

Properties, Projects and Production

Maximizing Value of Portfolio with Property Sales



Delivering Long-Term Value for our Shareholders

Scale and Quality for Growth	▪ Three mining operations with prospective land positions in the Americas ▪ Developing the Chinchillas project for 2018 production ▪ Market cap of ~$1.3B with listings on NASDAQ and TSX
Operational Excellence	▪ Maximizing value of existing assets ▪ Record production of 393,325 oz AuEq at $653/oz cash costs *(FY 2016)* ▪ Consistent production scale with 97,851 oz AuEq produced in Q1 2017
Generating Free Cash Flow	▪ Operating cash flow of $171M *(FY 2016)* ▪ $327M in cash and $149M in marketable securities *(FY 2016)*
Investing in the Future	▪ Spending $18M on exploration in 2017 ▪ Mineral Reserves increased 50% at Seabee and 30% at Marigold y-on-y ▪ Prospective brownfields and greenfields exploration

Notes: For 2016 operating and financial results, 2017 guidance and gold equivalent calculation details, refer to our news release dated February 23, 2017. For Q1 2017 production refer to our news release dated April 11, 2017. Cash costs is a non-GAAP financial measure. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation.

Value & Growth



San Luis Project

High-Grade Gold Development Option

High-grade mineralization with M+I Mineral Resources of

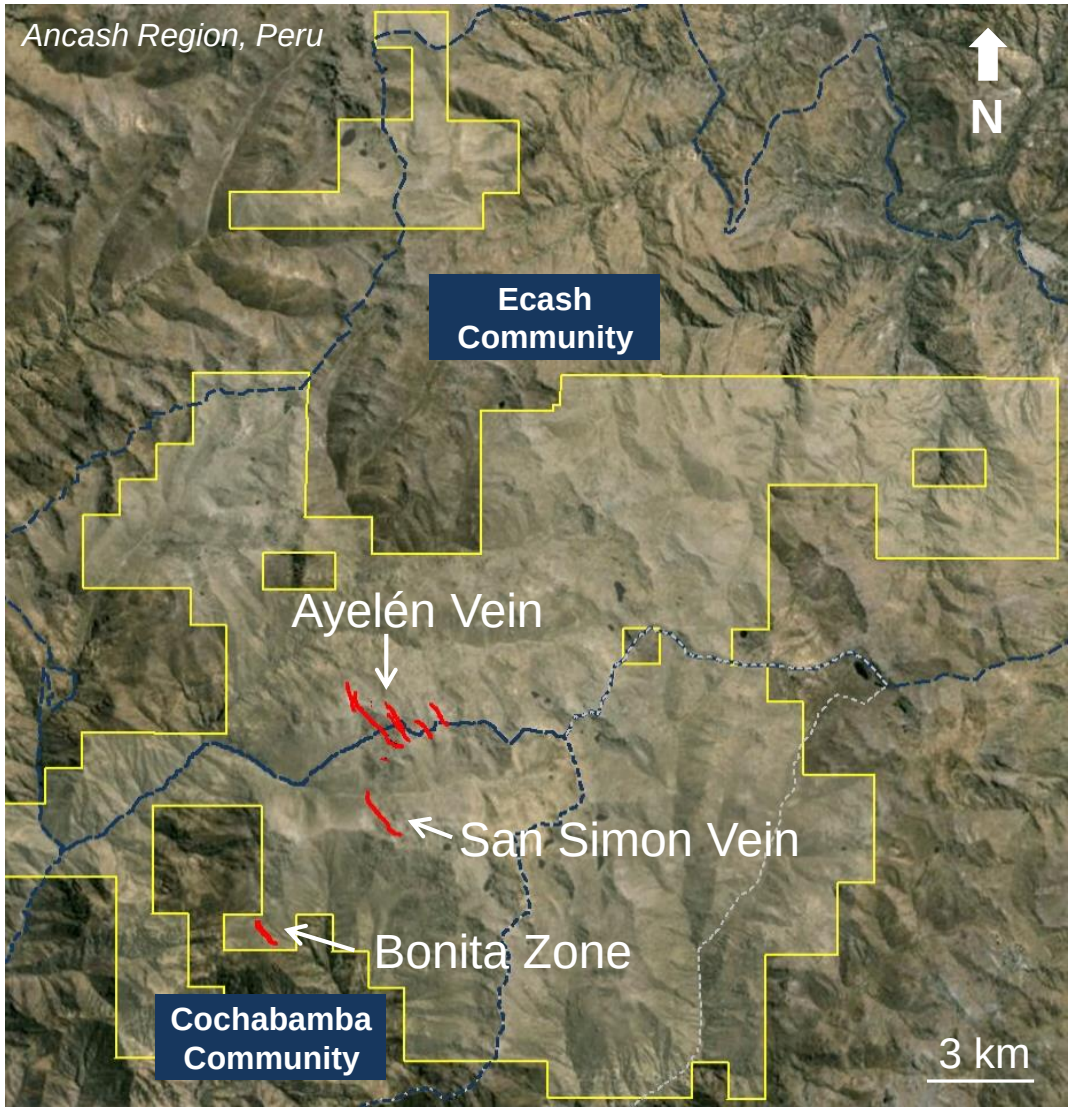
- 9.0M oz Ag at 578.1 g/t
- 0.35M oz Au at 22.4 g/t

Already Secured

- EIA
- Feasibility Study

Going forward

- Pursuing community agreements



Notes: Measured and Indicated Mineral Resources are inclusive of Mineral Reserves. See “Cautionary Notes”, Mineral Reserves and Mineral Resources tables and “Reserves and Resources: Notes to Tables” in this presentation.

Pitarrilla Project

Large Mineral Resource Development Option

- Development stage silver-lead-zinc deposit
- Open pit / UG project with potential for long life
- Conventional flotation and leaching
- Measured and Indicated Mineral Resources
  - Open pit: 497M oz Ag at 96.7 g/t
  - Underground: 29M oz Ag at 173.5 g/t
- Maintaining social license



Optionality One of the largest undeveloped silver Mineral Resources

Note: See “Cautionary Notes”, Mineral Reserves and Mineral Resources tables and “Reserves & Resources: Notes to Tables” in this presentation.

Mineral Reserves
(as at December 31, 2016)

Mineral Reserves							
	Location	Tonnes millions	Silver g/t	Gold g/t	Zinc %	Silver million oz	Gold million oz
Proven Mineral Reserves							
Seabee	Canada	0.52		6.97			0.12
Total							0.12
Probable Mineral Reserves							
Marigold	U.S.	185.00		0.45			2.67
Marigold Leach Pad Inventory	U.S.						0.17
Seabee	Canada	0.85		8.93			0.25
Pirquitas	Argentina	0.08	139.2		0.09	0.4	
Pirquitas Stockpiles	Argentina	2.42	118.1		0.40	9.2	
San Luis	Peru	0.51	447.2	18.06		7.2	0.29
Total						16.8	3.38
Total Proven and Probable Mineral Reserves							
Marigold	U.S.	185.00		0.45			2.67
Marigold Leach Pad Inventory	U.S.						0.17
Seabee	Canada	1.37		8.19			0.36
Pirquitas	Argentina	0.08	139.2		0.09	0.4	
Pirquitas Stockpiles	Argentina	2.42	118.1		0.40	9.2	
San Luis	Peru	0.51	447.2	18.06		7.2	0.29
Total Proven and Probable						**16.8**	**3.49**

Mineral Resources: Measured and Indicated

(as at December 31, 2016)

Mineral Resources								
	Location	Tonnes millions	Silver g/t	Gold g/t	Lead %	Zinc %	Silver million oz	Gold million oz
Measured Mineral Resources (Inclusive of Proven Mineral Reserves)								
Seabee	Canada	0.81		7.71				0.20
Pitarrilla	Mexico	10.13	91.7		0.70	1.23	29.8	
Total							29.8	0.20
Indicated Mineral Resources (inclusive of Probable Mineral Reserves)								
Marigold	U.S.	348.30		0.45				4.98
Marigold Leach Pad Inventory	U.S.							0.17
Seabee	Canada	1.43		8.14				0.37
Pirquitas	Argentina	12.88	108.6			1.16	45.0	
Pirquitas UG	Argentina	1.83	224.1			5.17	13.2	
Pirquitas Stockpiles	Argentina	2.42	118.1			0.40	9.2	
Pitarrilla	Mexico	149.82	97.1		0.31	0.83	467.5	
Pitarrilla UG	Mexico	5.16	173.5		0.50	1.19	28.8	
San Luis	Peru	0.48	578.1	22.40			9.0	0.35
Amisk	Canada	30.15	6.2	0.85			6.0	0.83
Total							578.6	6.70
Measured and Indicated Mineral Resources (Inclusive of Mineral Reserves)								
Marigold	U.S.	348.30		0.45				4.98
Marigold Leach Pad Inventory	U.S.							0.17
Seabee	Canada	2.23		7.99				0.57
Pirquitas	Argentina	12.88	108.6			1.16	45.0	
Pirquitas UG	Argentina	1.83	224.1			5.17	13.2	
Pirquitas Stockpiles	Argentina	2.42	118.1			0.40	9.2	
Pitarrilla	Mexico	159.95	96.7		0.33	0.86	497.3	
Pitarrilla UG	Mexico	5.16	173.5		0.50	1.19	28.8	
San Luis	Peru	0.48	578.1	22.40			9.0	0.35
Amisk	Canada	30.15	6.2	0.85			6.0	0.83
Total Measured and Indicated							**608.4**	**6.90**

Mineral Resources: Inferred
(as at December 31, 2016)

Mineral Resources								
	Location	Tonnes millions	Silver g/t	Gold g/t	Lead %	Zinc %	Silver million oz	Gold million oz
Inferred Mineral Resources								
Marigold	U.S.	53.60		0.41				0.70
Seabee	Canada	2.56		7.74				0.64
Pirquitas	Argentina	0.91	80.3			1.88	2.3	
Pirquitas UG	Argentina	0.94	202.0			6.97	6.1	
Pitarrilla	Mexico	9.04	76.6		0.16	0.54	22.2	
Pitarrilla UG	Mexico	1.31	139.0		0.85	1.21	5.9	
San Luis	Peru	0.02	270.1	5.60			0.2	
Amisk	Canada	28.65	4.0	0.64			3.7	0.59
Total Inferred							40.4	1.93

Reserves and Resources

Notes to Tables

All estimates set forth in the Mineral Reserves and Mineral Resources table have been prepared in accordance with National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101"). The estimates of Mineral Reserves and Mineral Resources for each property other than the Marigold mine, the Seabee Gold Operation and the Amisk gold project have been reviewed and approved by Bruce Butcher, P.Eng., our Director, Mine Planning, and F. Carl Edmunds, P.Geo., our Chief Geologist, each of whom is a Qualified Person.

Mineral Resources are reported inclusive of Mineral Reserves. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability. Due to the uncertainty that may be attached to Inferred Mineral Resources, it cannot be assumed that all or any part of an Inferred Mineral Resource will be upgraded to an Indicated or Measured Mineral Resource as a result of continued exploration. Mineral Resources and Mineral Reserves figures have some rounding applied, and thus totals may not sum exactly. All ounces reported herein represent troy ounces, and "g/t" represents grams per tonne. All $ references are in U.S. dollars. All Mineral Reserve and Mineral Resource estimates are as of December 31, 2016.

Metal prices utilized for Mineral Reserves estimates are $1,250 per ounce of gold, $18.00 per ounce of silver and $1.00 per pound of zinc, except as noted below for the San Luis project. Metal prices utilized for Mineral Resources estimates are $1,400 per ounce of gold, $22.50 per ounce of silver, $1.10 per pound of zinc and $3.00 per pound of copper, except as noted below for the San Luis project and the Amisk gold project. The table does not include an estimate of Mineral Resources for the Diablillos project, which we sold to Huayra Minerals Corporation effective as of November 1, 2016, or the Berenguela project, which we agreed to sell to Valor Resources Limited, as announced in our news release dated February 13, 2017. All technical reports for the properties are available under our profile on the SEDAR website at www.sedar.com or on our website at www.silverstandard.com.

Marigold: Except for updates to cost parameters and metal price assumptions, all other key assumptions, parameters and methods used to estimate Mineral Reserves and Mineral Resources and the data verification procedures followed are set out in the technical report entitled "NI 43-101 Technical Report on the Marigold Mine, Humboldt County, Nevada" dated November 19, 2014. For additional information about the Marigold mine, readers are encouraged to review our most recently filed Annual Information Form. Mineral Reserves estimate was prepared under the supervision of Thomas Rice, SME Registered Member, a Qualified Person and our Technical Services Manager at the Marigold mine, and is reported at a cut-off grade of 0.065 g/t payable gold. Mineral Resources estimate was prepared under the supervision of James N. Carver, SME Registered Member, and our Chief Geologist at the Marigold mine, and Karthik Rathnam, MAusIMM (CP), and our Senior Resource Geologist at the Marigold mine, each of whom is a Qualified Person. Mineral Resources estimate is reported based on an optimized pit shell at a cut-off grade of 0.065 g/t payable gold, and includes an estimate of Mineral Resources for mineralized stockpiles. Mineral Resources for mineralized stockpiles were estimated using Inverse Distance cubed.

Seabee Gold Operation: Except for updates to cost parameters, metal price assumptions and mill recovery and dilution to include recent operating results, all other key assumptions, parameters and methods used to estimate Mineral Reserves and Mineral Resources and the data verification procedures followed are set out in the technical report entitled "Mineral Resource and Mineral Reserve Estimate Seabee Gold Operation Saskatchewan, Canada" dated December 23, 2013. For additional information about the Seabee Gold Operation, readers are encouraged to review our Management Information Circular dated April 1, 2016. Mineral Reserves estimate was prepared under the supervision of under the supervision of Kevin Fitzpatrick, P.Eng., a Qualified Person and our Engineering Supervisor at the Seabee Gold Operation. Mineral Reserves estimate for the Seabee mine is reported at a cut-off grade of 4.92 g/t gold, and for the Santoy mine is reported at a cut-off grade of 3.65 g/t gold. Mineral Resources estimate was prepared under the supervision of Jeffrey Kulas, P.Geo., a Qualified Person and our Manager Geology, Mining Operations at the Seabee Gold Operation. Mineral Resources estimate for the Seabee mine is reported at a cut-off grade of 4.40 g/t gold, and for the Santoy mine is reported at a cut-off grade of 3.26 g/t gold. Block modelling techniques were used for Mineral Resources and Mineral Reserves evaluation for the Santoy mine and the majority of the Seabee mine. Polygonal techniques were used in areas of historical mining at the Seabee mine.

Pirquitas: Except for the optimized pit constraints and updates in metal price assumptions and cut-off grade used for the Mineral Reserves estimate and value estimation methodology used in the Mineral Resources block model, all other key assumptions, parameters and methods used to estimate Mineral Reserves and Mineral Resources and the data verification procedures followed are set out in the technical report entitled "NI 43-101 Technical Report on the Pirquitas Mine, Jujuy Province, Argentina" dated December 23, 2011. For additional information about the Pirquitas mine, readers are encouraged to review our most recently filed Annual Information Form. Mineral Reserves estimate is reported at a cut-off grade of $21.31 per tonne net smelter return ("NSR"). Mineral Resources estimate for the open pit is reported at a cut-off grade of $22.06 per tonne NSR, constrained within an open pit resource shell. Underground Mineral Resources (Pirquitas UG) are reported below the open pit resource pit shell; Mineral Resources for the Mining Area (which includes San Miguel, Chocaya, Oploca and Potosí zones) are reported at a cut-off grade of $85.00 per tonne NSR; and Mineral Resources for the Cortaderas Area are reported at a cut-off grade of $75.00 per tonne NSR. Mineral Reserves and Mineral Resources in surface stockpiles are reported at a cut-off grade of $23.25 per tonne NSR and $24.00 per tonne NSR, respectively, and were determined based on grade, rehandling costs and recovery estimates from metallurgical testing.

San Luis: Mineral Reserves estimate is reported at a cut-off grade of 6.9 g/t gold equivalent, using a gold price of $800 per ounce and a silver price of $12.50 per ounce. Mineral Resources estimate is reported at a cut-off grade of 6.0 g/t gold equivalent, using a gold price of $600 per ounce and a silver price of $9.25 per ounce.

Pitarrilla: Mineral Resources estimate for the open pit is reported at a cut-off grade of $16.38 per tonne NSR for direct leach ore, using an average recovery of 56% silver, and $16.40 per tonne NSR for flotation/leach ore, using average recoveries of 75% silver, 73% lead and 75% zinc, constrained within an open pit resource shell. Underground Mineral Resources (Pitarrilla UG) are reported below the constrained open pit resource pit shell above a cut-off grade of $80.00 per tonne NSR, using grade shells that have been trimmed to exclude distal and lone blocks that would not support development costs.

Amisk: Mineral Resources estimate was prepared by Sebastien Bernier, P.Geo., Principal Consultant (Resource Geology), SRK Consulting (Canada) Inc., a Qualified Person. Mineral Resources estimate is reported at a cut-off grade of 0.40 grams of gold equivalent per tonne using a price of $1,100 per ounce of gold and $16.00 per ounce of silver inside conceptual pit shells optimized using metallurgical and process recovery of 87%, overall ore mining and processing costs of $15.00 per tonne and overall pit slope of fifty-five degrees.

Chinchillas Mineral Reserves and Resources

100% Project Basis

Mineral Resources	Tonnes	AgEq	Ag	Pb	Zn	AgEq	Ag	Pb	Zn
	(Mt)	(g/t)	(g/t)	%	%	(Moz)	(Moz)	(Mlb)	(Mlb)
Measured	3.1	160	128	0.60	0.41	16	13	41	28
Indicated	26.2	148	98	0.94	0.62	124	83	540	358
Total (M+I)	29.3	149	101	0.90	0.60	140	96	581	386
Inferred	20.9	94	50	0.54	0.81	63	34	250	374

Mineral Reserves	Tonnes	Ag	Pb	Zn	Ag	Pb	Zn
	(Mt)	(g/t)	%	%	(Moz)	(Mlb)	(Mlb)
Proven	1.6	180	0.75	0.42	9	27	15
Probable	10.1	150	1.27	0.50	48	282	111
Total	11.7	154	1.20	0.49	58	310	127

Notes to Mineral Resources Table: As at October 2, 2016. Mineral Resources estimate was prepared in accordance with the Canadian Institute of Mining, Metallurgy and Petroleum Counsel – Definitions adopted by the CIM Counsel on May 10, 2014 (the "CIM Standards") and reported in accordance with National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101") under the direction of Robert Sim, P.Geo, SIM Geological Inc., a qualified person. Mineral Resources estimate has been generated from drill hole sample assay results and the interpretation of a geologic model relating to the spatial distribution of silver, lead and zinc. Interpolation characteristics were defined based on the geology, drill hole spacing, and geostatistical analysis of the data. Grade estimates using ordinary kriging are made into model blocks measuring 8 x 8 x 5 metres (LxWxH). Mineral Resources were classified according to their proximity to sample data locations. Mineral Resources are contained within a pit shell generated using a silver equivalent grade derived from the following formula: AgEq = Ag g/t + (Pb% ∗ 30.49) + (Zn% * 33.54). Mineral Resources estimate is based on metal price assumptions of $22.50/oz silver, $1.00/lb lead and $1.10/lb zinc. The base case cut-off grade, which reflects the transport and processing of ore at Pirquitas, is estimated to be 60 g/t AgEq based on projected operating costs and metal prices listed above. Metallurgical recoveries, used in the generation of the pit shell, are assumed to be 85% silver, 93% lead and 80% for zinc. Mineral Resources are reported inclusive of Mineral Reserves. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability. The quantity and grade of reported Inferred Mineral Resources are uncertain in nature and there has been insufficient exploration to classify these Inferred Mineral Resources as Indicated or Measured Mineral Resources. We intend to conduct further exploration to upgrade the Inferred Mineral Resources; however, due to the uncertainty that may be attached to Inferred Mineral Resources, it cannot be assumed that all or any part of an Inferred Mineral Resource will be upgraded to an Indicated or Measured Mineral Resource as a result of continued exploration. Figures may not total exactly due to rounding. All ounces reported represent troy ounces, and "g/t" represents grams per tonne.

Notes to Mineral Reserves Table: As at December 31, 2016. Mineral Reserves estimate was prepared in accordance with the CIM Standards and reported in accordance with NI 43-101 under the direction of Anoush Ebrahimi, P.Eng, Ph.D., SRK Consulting (Canada) Inc., a qualified person. Mineral Reserves estimate is based on metal price assumptions of $18.00/oz silver, $0.90/lb lead and $1.00/lb zinc. Mineral Reserves estimate is reported at a cut-off grade of $32.56 per tonne net smelter return. All figures include dilution. The average mining dilution is calculated to be 11%. Ore loss is estimated at 2%. There is an estimated 54.89 Mt of waste in the ultimate pit. The strip ratio is 4.69 (waste:ore). Processing recoveries vary based on the feed grade. The average recovery is estimated to be 85% for silver, 95% for lead and approximately 80% for zinc. Metals shown in this table are the contained metals in ore mined and processed. This Mineral Reserves estimate assumes that all required permits, as discussed under the heading "Environment, Communities and Permitting" will be obtained. Figures may not total exactly due to rounding. All ounces reported represent troy ounces, and "g/t" represents grams per tonne.

Strong Technical and Commercial Experience

Board of Directors

Peter Tomsett
Chairman

Michael Anglin

Paul Benson

Brian Booth

Gustavo Herrero

Beverlee Park

Richard Paterson

Steven Reid

Management Team

Paul Benson
President, CEO and Director

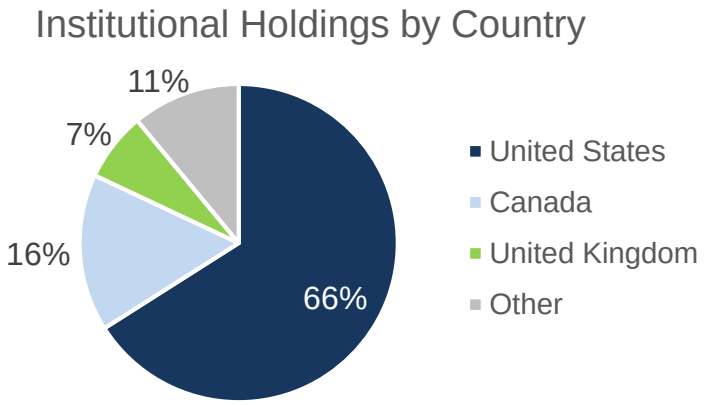
Gregory Martin
SVP and CFO

Alan Pangbourne
COO

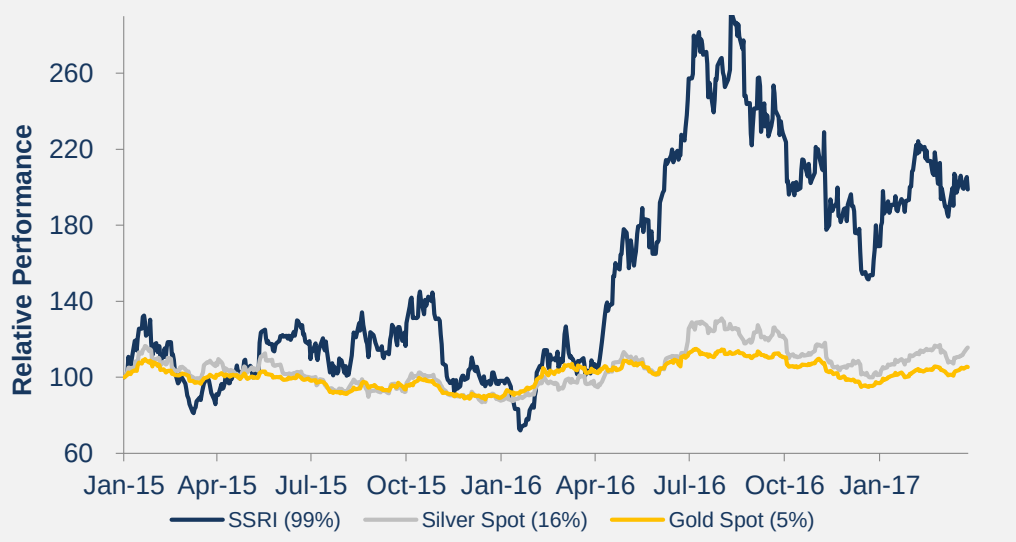
John DeCooman
VP, Business Development and Strategy

Ownership and Capitalization Summary

Top 10 Shareholders	% of Shares Outstanding
Van Eck Value	18.2%
Renaissance Technologies	4.5%
Deutsche Bank	2.0%
The Vanguard Group	1.8%
Sun Valley Gold	1.6%
Connor Clark & Lunn	1.6%
Sentry Investments	1.5%
Investec Asset Management	1.4%
BlackRock Asset Management	1.3%
TD Asset Management	1.3%



Holding by Investor Class: 58% Institutional
42% Retail and Other



	$ Million
Cash and Cash Equivalents	$327
Marketable Securities	$149
Convertible Notes	$265
Revolving Credit Facility	$75
Market Capitalization	$1,260

Total Shares Outstanding: 119.4 million

Source: Bloomberg; as at March 28, 2017. Cash and cash and cash equivalents, marketable securities, convertible notes, revolving credit facility and total shares outstanding as at December 31, 2016. Market capitalization as at March 28, 2017.



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