



Barclays Global Cross-Asset Class Materials Conference

March 29 – April 1, 2016

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Cautionary Statement on Forward-Looking Information

All information included in this presentation, including any information as to the Company's future financial or operating performance, and other statements that express management's expectations or estimates of future performance, other than statements of historical fact, constitute forward looking information or forward-looking statements and are based on expectations, estimates and projections as of the date of this presentation. Forward-looking statements contained in this presentation include, without limitation, statements with respect to: the Company's guidance for production, cash costs, all-in sustaining costs, depreciation expense, effective tax rate, and operating margin, capital expenditures, operations outlook, cost management initiatives, development and expansion projects, exploration, the future price of gold, the estimation of mineral reserves and mineral resources, the realization of mineral reserve and mineral resource estimates, the timing and amount of estimated future production, costs of production, permitting timelines, currency fluctuations, requirements for additional capital, government regulation of mining operations, environmental risks, unanticipated reclamation expenses, title disputes or claims and limitations on insurance coverage. Forward-looking statements are provided for the purpose of providing information about management's current expectations and plans relating to the future. Forward-looking statements are generally identifiable by, but are not limited to the, use of the words "may", "will", "should", "continue", "expect", "anticipate", "estimate", "believe", "opportunities", "intend", "plan", "possible", "suggest", "guidance", "outlook", "potential", "prospects", "seek", "targets", "strategy" or "project" or the negative of these words or other variations on these words or comparable terminology. Forward-looking statements are necessarily based upon a number of estimates and assumptions that, while considered reasonable by management, are inherently subject to significant business, economic and competitive uncertainties and contingencies. The Company cautions the reader that reliance on such forward-looking statements involve risks, uncertainties and other factors that may cause the actual financial results, performance or achievements of IAMGOLD to be materially different from the Company's estimated future results, performance or achievements expressed or implied by those forward-looking statements, and the forward-looking statements are not guarantees of future performance. These risks, uncertainties and other factors include, but are not limited to, changes in the global prices for gold, copper, silver or certain other commodities (such as diesel and electricity); changes in U.S. dollar and other currency exchange rates, interest rates or gold lease rates; risks arising from holding derivative instruments; the level of liquidity and capital resources; access to capital markets, and financing; mining tax regimes; ability to successfully integrate acquired assets; legislative, political or economic developments in the jurisdictions in which the Company carries on business; operating or technical difficulties in connection with mining or development activities; laws and regulations governing the protection of the environment; employee relations; availability and increasing costs associated with mining inputs and labour; the speculative nature of exploration and development, including the risks of diminishing quantities or grades of reserves; adverse changes in the Company's credit rating; contests over title to properties, particularly title to undeveloped properties; and the risks involved in the exploration, development and mining business. With respect to development projects, IAMGOLD's ability to sustain or increase its present levels of gold production is dependent in part on the success of its projects. Risks and unknowns inherent in all projects include the inaccuracy of estimated reserves and resources, metallurgical recoveries, capital and operating costs of such projects, and the future prices for the relevant minerals. Development projects have no operating history upon which to base estimates of future cash flows. The capital expenditures and time required to develop new mines or other projects are considerable, and changes in costs or construction schedules can affect project economics. Actual costs and economic returns may differ materially from IAMGOLD's estimates or IAMGOLD could fail to obtain the governmental approvals necessary for the operation of a project; in either case, the project may not proceed, either on its original timing or at all.

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The Company disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise except as required by applicable law.

Geographically Diversified Asset Base



Strong Foundation

Strong liquidity

Strengthened
with recent
transactions



Improving cost structure

AISC of \$1,057/oz
in 2015¹



Four producing gold mines on three continents

806,000 oz.
produced in
2015²



Robust exploration portfolio

2 wholly-owned
and 3 JV projects

¹ Excludes \$61/oz impact from realized hedge and non-hedge derivative losses (\$63/oz) and the purchase of assets held under finance leases at Rosebel (\$33/oz) partially offset by normalization of costs following the production interruption at Westwood (\$35/oz)

² Attributable gold production

Strong Liquidity¹

Position	\$M
Cash, cash equivalents and restricted cash ²	548.0
Bullion (at market) ²	143.3
Credit facility:	
Fully committed and available	100.0
Accordion - Option to increase	<u>150.0</u>
Total	250.0

Liquidity Impact of Transactions in 2016

(\$US Millions)

→ Paid short-term debt	(70)
→ Issued flow-through shares	~31
→ Converted bullion to cash (after-tax gain of \$72M)	27

¹ \$635 million senior unsecured notes due October 2020. Purchased \$5.4 million (face value) in Q1/15 and \$9.6 million (face value) in Q3/15

² As at December 31, 2015

Recent Transactions

Gold Bullion Purchases:

- Sold 135,148 ounces on dates from February 16, 2016 to March 17, 2016
- at an average price of \$1,260 per oz.
- for after-tax proceeds of \$170.1M,
- compares favourably to:
 - › market value at December 31, 2015 of \$143.3M (\$1,060 per oz.)
 - › book value of \$97.4M (\$721 per oz.)

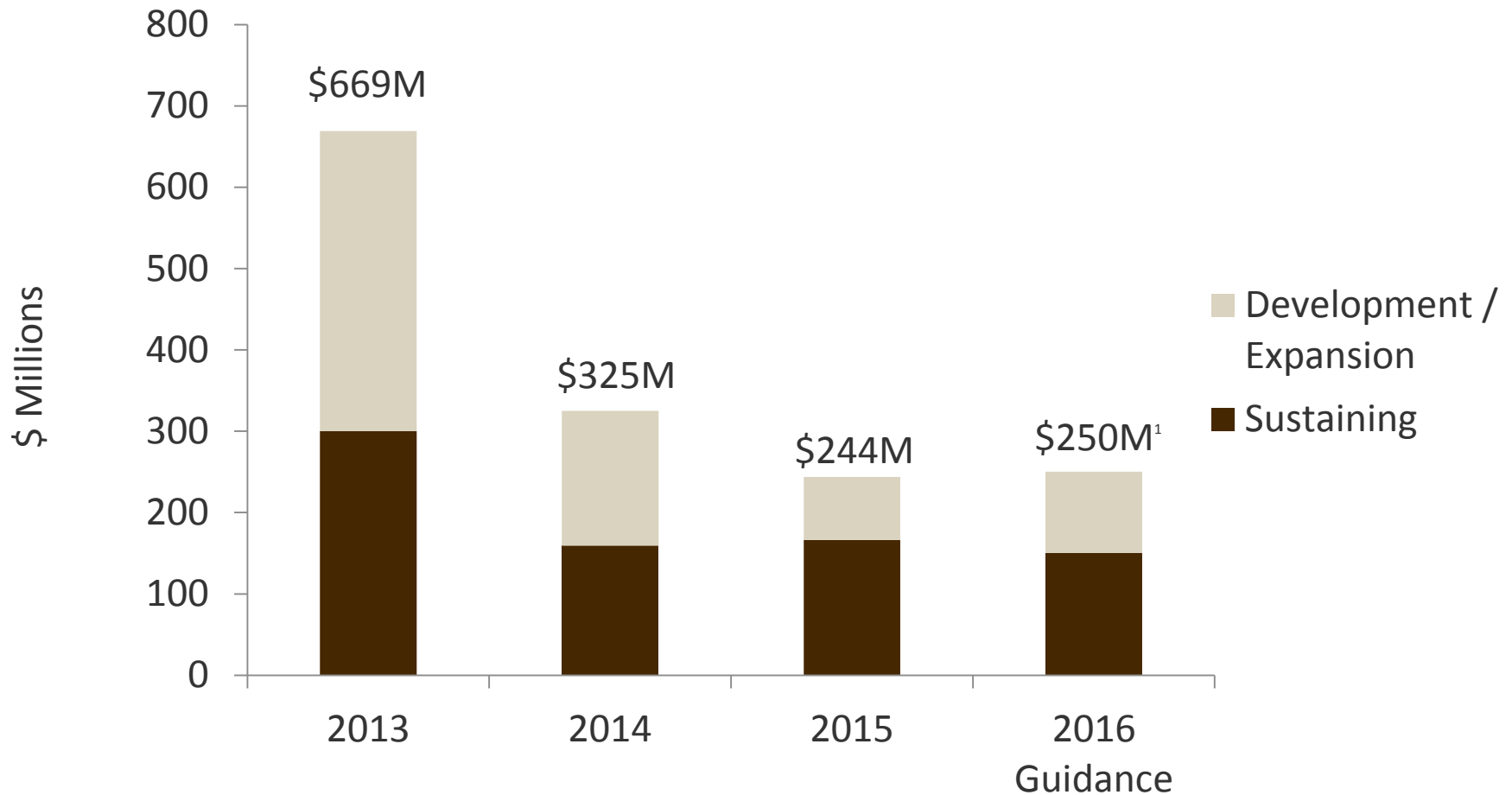
Flow-through Shares:

- In the first quarter of 2016, IAMGOLD has issued 12,042,101 CDE flow-through shares at a price of C\$3.41 (10% premium) to raise C\$41M.

Our issuance of flow-through shares will fund approximately half of the US\$65M development capital we've committed to Westwood in 2016.

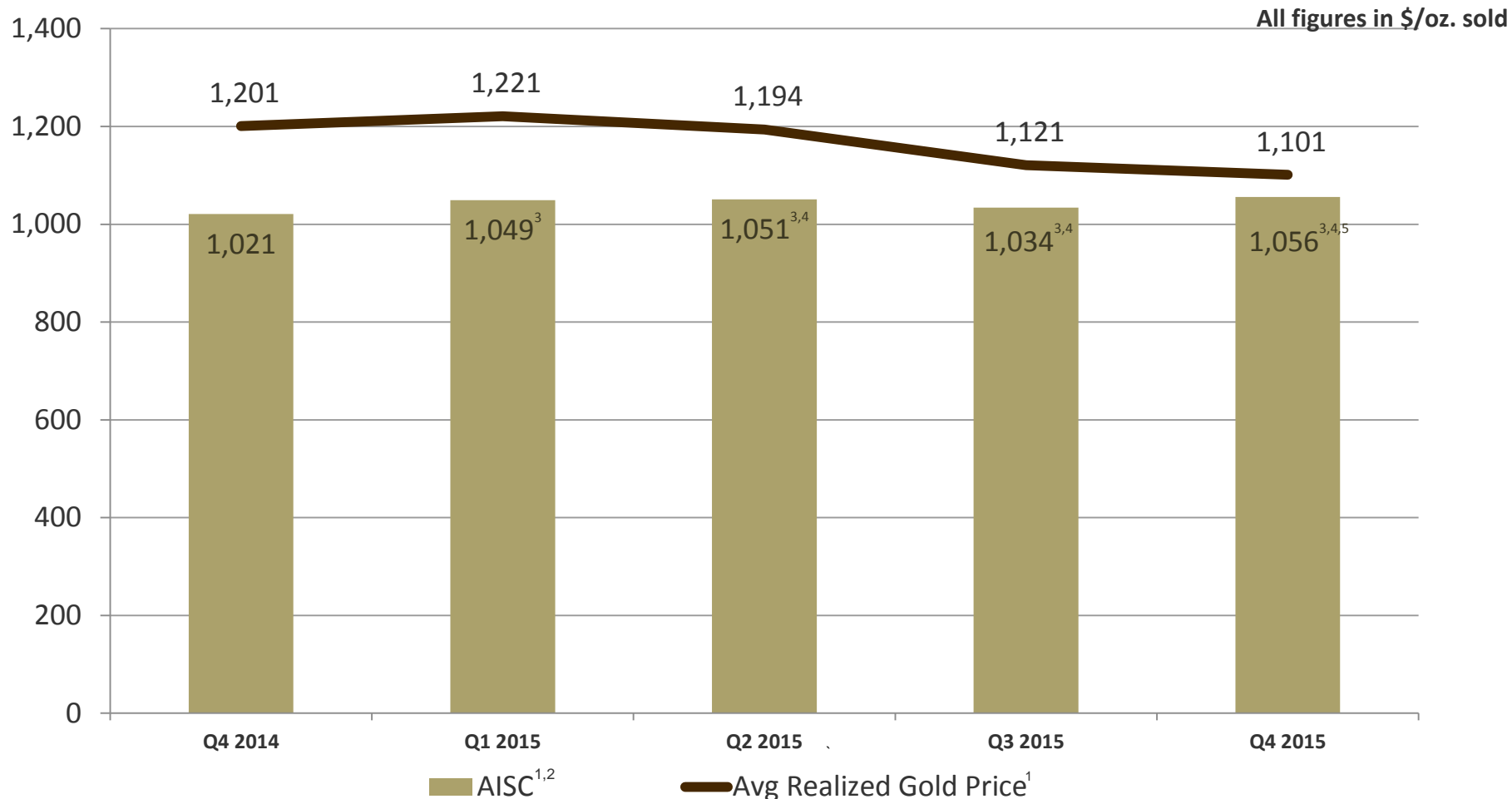
IAMGOLD now has 405.4 million shares outstanding.

Disciplined Capital Spending



¹ Plus or minus 10%

All-In Sustaining Costs^{1,2} – Adjusted for Unusual Items



¹ This is a non-GAAP measure. Refer to the non-GAAP performance measures section of the MD&A for reconciliation to GAAP.

² Consists of Rosebel, Essakane, Westwood, Sadiola and Yatela on an attributable basis.

³ Excludes realized hedge and non-hedge derivative losses of \$64/oz in Q1/15, \$53/oz in Q2/15, \$73/oz in Q3/15 and \$59/oz in Q4/15

⁴ Excludes normalization of Westwood's costs following production interruption of \$28/oz sold in Q2/15, \$80/oz sold in Q3/15 and \$36/oz sold in Q4/15

⁵ Excludes purchase of assets held under finance leases at Rosebel of \$123/oz in Q4/15

2016 Production and Cost Guidance^{1,3}

	<u>2016 Guidance</u>¹
Rosebel (000s oz.)	285 – 295
Essakane (000s oz.)	365 – 375
Westwood (000s oz.)	50 – 60
Total owner-operated production (000s oz.)	700 -730
Joint ventures (000s oz.)	70
Total attributable production (000s oz.)	770 – 800
Total cash costs ^{2,3} – owner-operator (\$/oz.)	\$775 - \$815
Total cash costs ^{2,3} (\$/oz.)	\$775 - \$815
All-in sustaining costs ^{2,3} – owner-operator (\$/oz.)	\$1,000 - \$1,100
All-in sustaining costs ^{2,3} (\$/oz.)	\$1,000- \$1,100

¹ The outlook is based on 2016 full year assumptions with an average realized gold price of \$1,150 per ounce, Canadian \$/USD exchange rate of 1.25, USD/€ exchange rate of 1.10 and average crude oil price of \$60/barrel for Rosebel and \$65/barrel for Essakane.

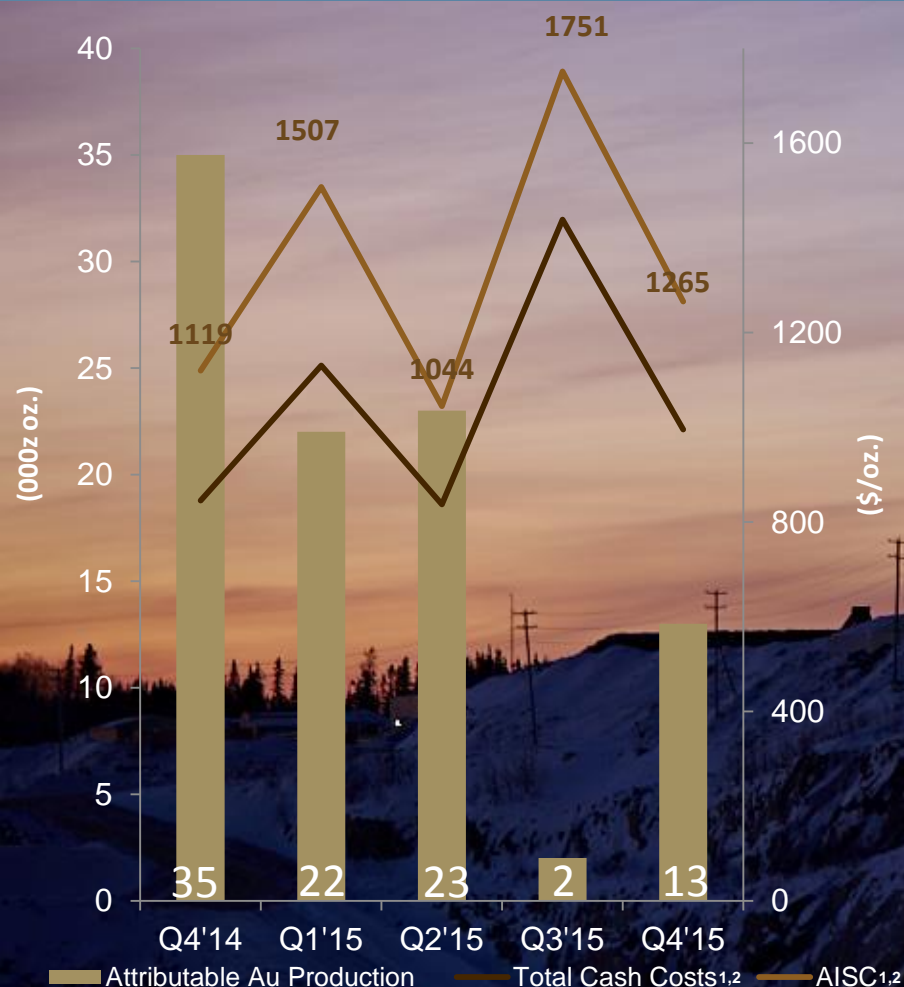
² This is a non-GAAP measure. Refer to the non-GAAP performance measures section of the MD&A for reconciliation to GAAP.

³ Consists of Rosebel, Essakane, Westwood, Sadiola and Yatela on an attributable basis.

Operations Review



Westwood – Canada



- Production of 60,000 attributable ounces for 2015 due to seismic event
- Focus continues to be on underground development to expand number of mining areas and remedial work
 - Development work will open up access to multiple mining blocks for future years and provide optionality
- AISC¹ was \$1,292 for 2015 after normalization of costs
- Revised LOM plan announced January 2016:
 - 20 year mine life with average annual production of 183,000 oz.

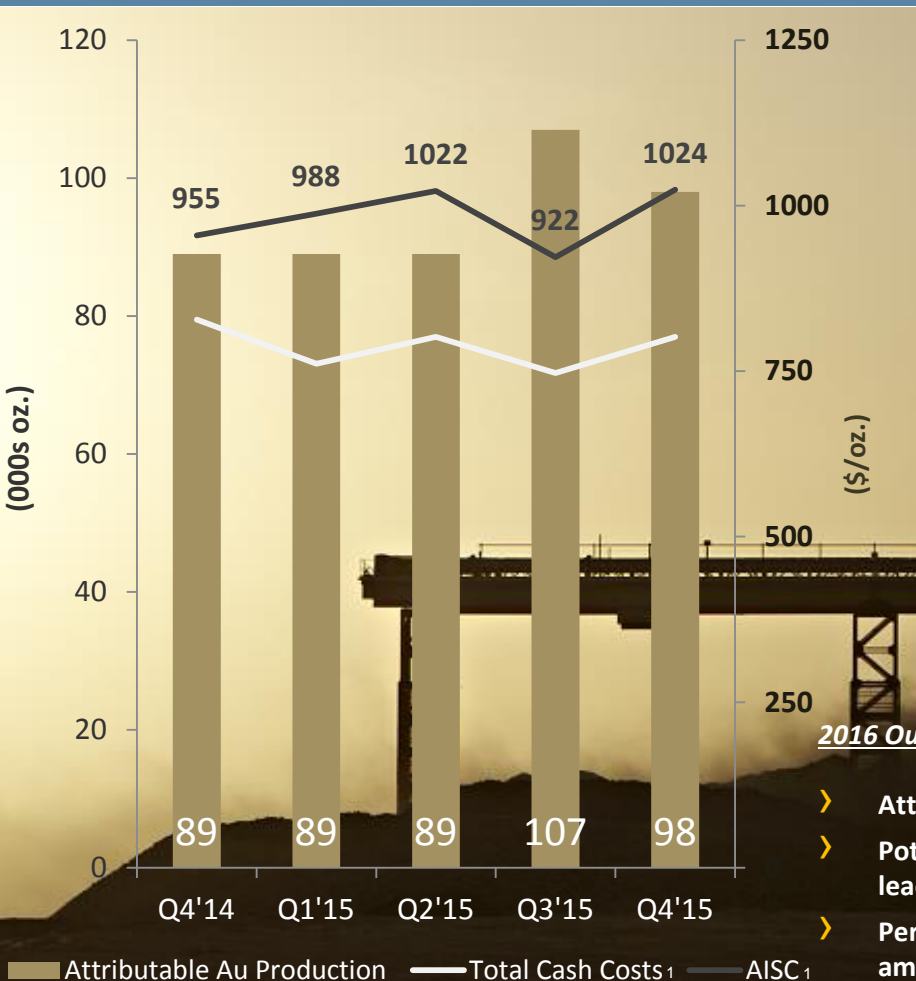
2016 Outlook

- Attributable production of 50,000-60,000 oz.
- Mill will operate on a reduced schedule due to low level of ore being mined
- Continuing development work to advance ramp-up
- Expect to ramp-up to full capacity in 2019

¹ This is a non-GAAP measure. Refer to the non-GAAP performance measures section of the MD&A for the reconciliation to GAAP.

² Q2'15, Q3'15 and Q4'15 cash costs and AISC reflect \$5.4, \$15M and \$7.8M inventory adjustments, respectively, to normalize costs.

Essakane – Burkina Faso



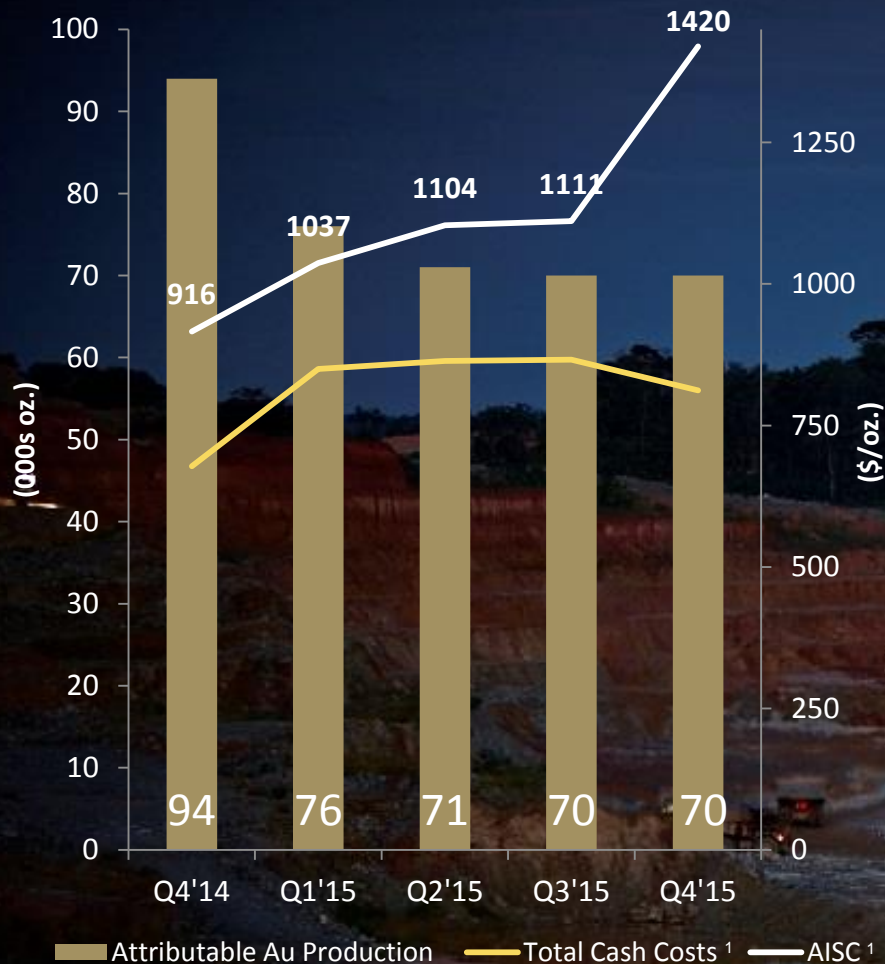
- Record production of 383,000 attributable ounces for 2015, up 15% from 2014 due to mill optimization, 15% grade increase and mining at Falagountou
- Mill expansion completed in 2013 to accommodate increasing proportion of hard rock:
 - Hard rock milled was 65% in 2015 due to saprolite ore from stockpiles and Falagountou; planned to reach 90% by end of Q1/16
- AISC¹ of \$1,010/oz. in 2015 - including realized losses on fuel and currency hedges (\$75/oz)
- Revised LOM plan announced January 2016:
 - 8 year mine life with average annual attributable production of 368,000 oz.

2016 Outlook

- Attributable production of 365,000-375,000 oz.
- Potential to improve gold recoveries through oxygen injection into the carbon-in-leach tanks and installation of an intensive leach reactor in the gravity circuit
- Performance improvement initiatives: optimized drill and blast practices to reduce amount of explosives used, automated cyanide injection to enhance circuit stability, installation of a carbon fines incinerator to reduce gold-in-process inventory, and reduced fuel consumption/improved power plant efficiencies

¹ This is a non-GAAP measure. Refer to the non-GAAP performance measures section of the MD&A for the reconciliation to GAAP.

Rosebel – Suriname



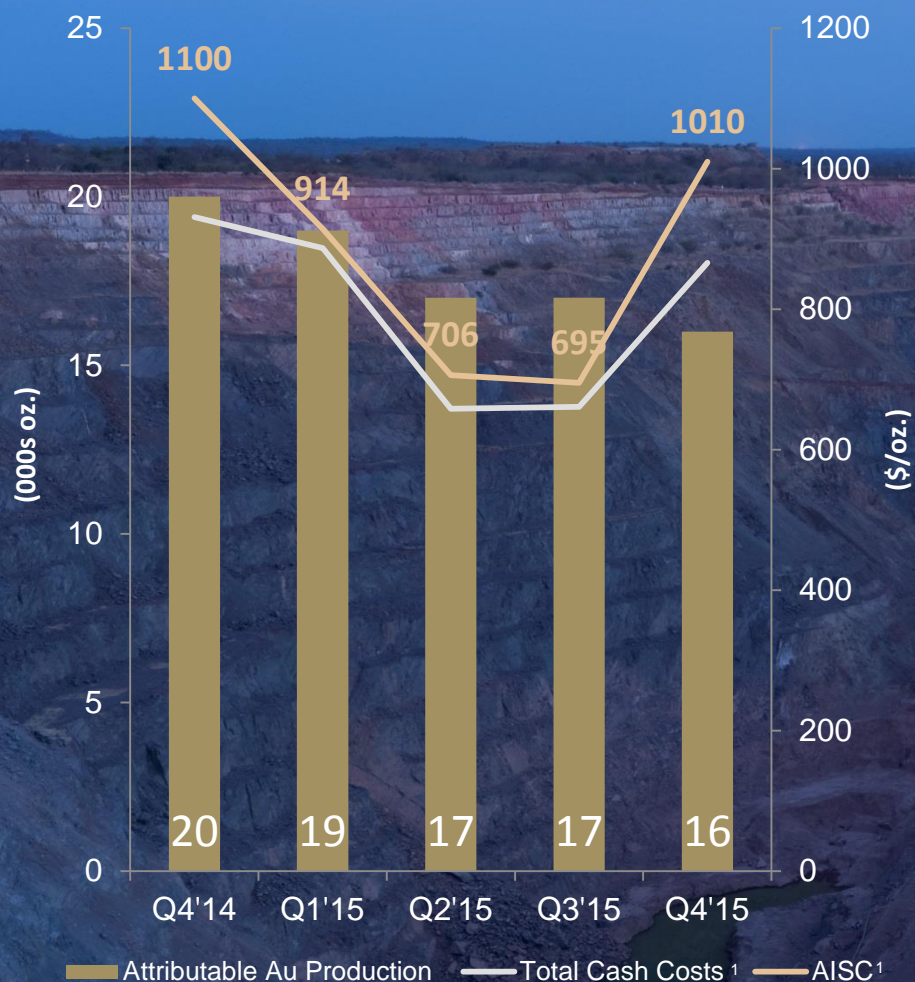
- Production of 287,000 attributable ounces for 2015, below 2014 due to lower grades & throughput; proportion of soft rock fell from 38% to 25%
 - Q4/15 production down due to eleven day work-stoppage
- AISC¹ of \$1,165 in 2015 – included one-time purchase of assets held under finance leases and realized losses on fuel and currency hedges (\$140/oz.)
 - Excl. impact of these items, AISC were \$980/oz. in Q4/15
- ~10% workforce reduction in process to better align labour costs with production levels
- Revised LOM plan announced:
 - 6-7 year mine life; average annual attributable production of 316,000 oz.

2016 Outlook

- **Attributable production of 285,000– 295,000 oz.**
- **Increasing capacity to process hard rock by installation of a permanent secondary crusher, changing grinding media size and re-configuring the SAG mill liners**
- **Performance improvement initiatives: reduced cycle times through enhanced dispatching and road optimization, increased bench heights, optimized gravity circuits and carbon-in-leach configuration**

¹ This is a non-GAAP measure. Refer to the non-GAAP performance measures section of the MD&A for the reconciliation to GAAP.

Sadiola – Mali



- Production of 69,000 attributable ounces in 2015
 - › Decline from 2014 due to lower grades
- AISC¹ of \$839/oz. for 2015, 23% lower than previous year due to lower fuel and consumable prices and favourable FX rates
- Results from RC drilling program testing oxide targets has increased the year-end reserves and resource estimate
 - › Current assessment indicates mining and milling into early 2018

2016 Outlook

- › Attributable production of 70,000 oz.
- › Continue to update feasibility study
- › Continue to work with our JV partner, AngloGold Ashanti, on options to extend mine life

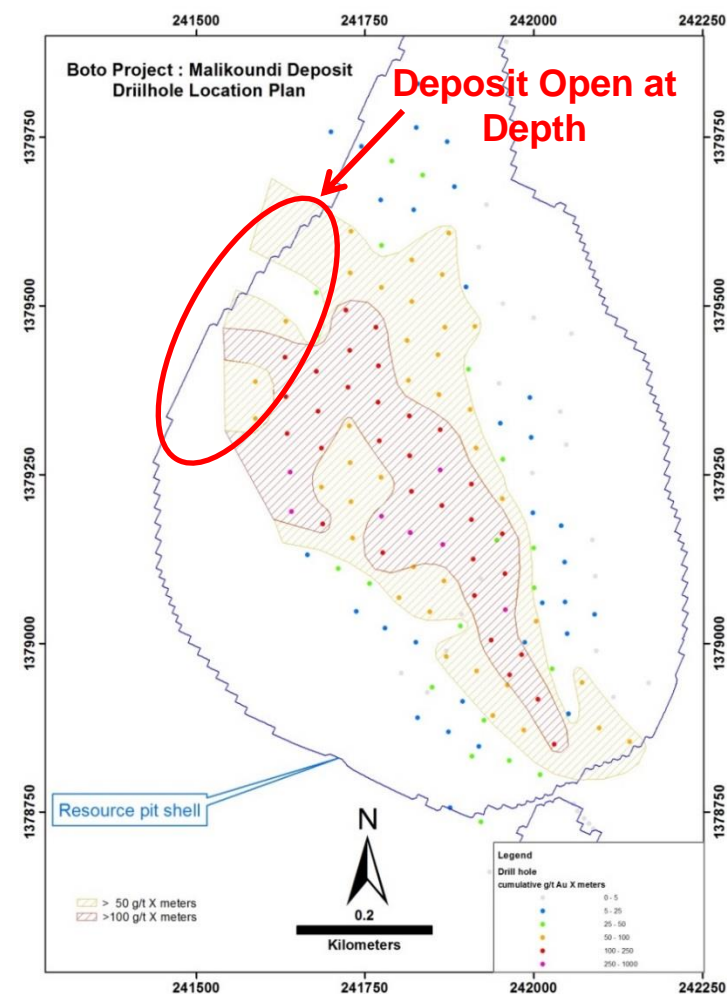
¹ This is a non-GAAP measure. Refer to the non-GAAP performance measures section of the MD&A for the reconciliation to GAAP.

Exploration Review



Boto Project (Senegal)

- Infill drilling at Malikoundi deposit completed
- Updated estimated indicated resource of 1.6 M oz in 27.7 Mt at 1.8 g/t Au and inferred resource of 125,000 oz in 2.9Mt at 1.3 g/t Au¹
 - › Final 2015 assay results reported include (Jul 20, 2015):
 - 36 m at 3.59 g/t Au, including 7 m at 9.46 g/t Au
 - 25 m at 4.26 g/t Au, including 8 m at 8.80 g/t Au
- In 2016 we will continue technical studies to support economic evaluation and prepare application for exploitation permit
- Exploration drilling program planned with objective of identifying higher grade zones deeper in the deposit

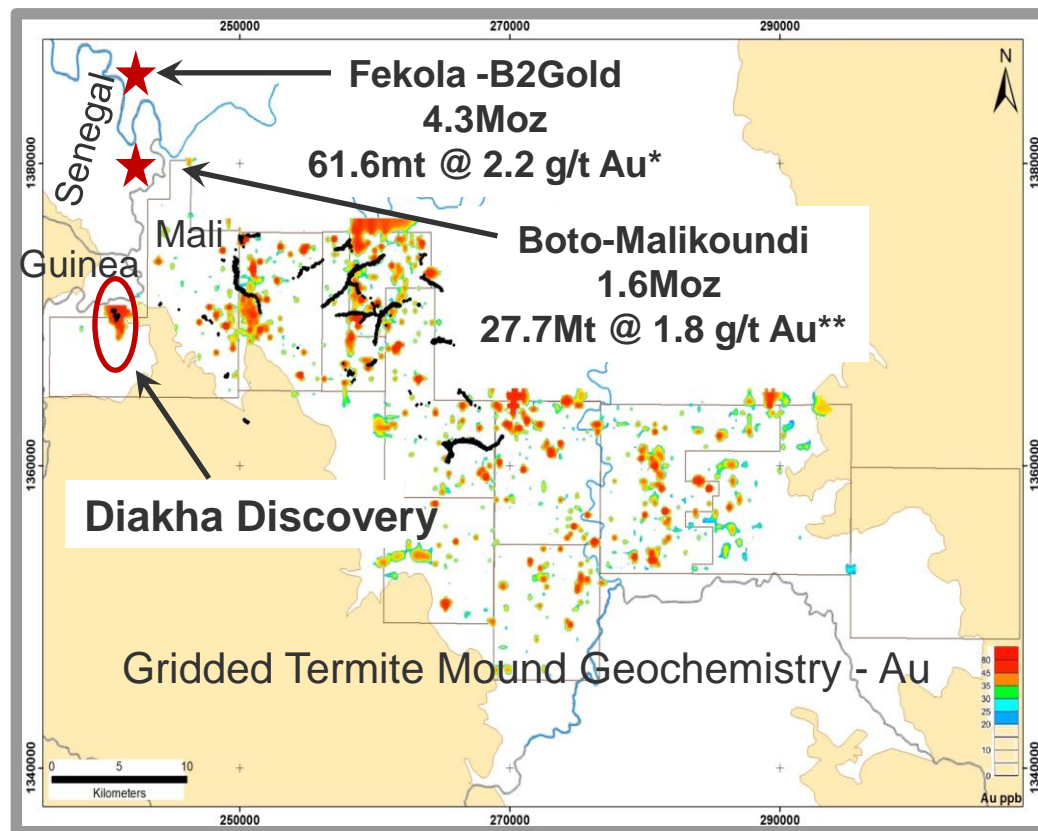


¹ Updated Resource Estimate for Boto Gold, effective December 31, 2015 (see news release dated February 17, 2016).

Note: CIM Definitions were followed for classification of Mineral Resources. Mineral Resources are estimated at a cut-off grade of 0.60 g/t Au. Mineral Resources are estimated using a gold price of US\$1,500 per ounce. High grade assays are capped at 15 g/t Au to 30 g/t Au depending on geological area. Bulk density varies from 1.61 g/cm³ to 2.62 g/cm³ based on weathering code. The Mineral Resource Estimate is constrained by a Whittle Pit shell. Mineral Resources are not Mineral Reserves and do not yet have demonstrated economic viability, but are deemed to have a reasonable prospect of economic extraction. Numbers may not add due to rounding. Mineral Resources are reported on a 100% ownership basis.

Siribaya (Mali) – JV with Merrex Gold

- Focused on Diakha prospect - extension of trend hosting Boto Gold deposit
- Initial 43-101 compliant mineral resource estimate completed and announced February 9, 2016
 - › Indicated resource of 129,000 oz. in 2.1Mt at 1.9 g/t Au and an inferred resource of 1.1M oz. in 19.8Mt at 1.7 g/t Au¹
- Highlights from infill delineation drilling completed in H1/15 include:
 - › 34 m at 11.99 g/t Au, including 18 m at 18.10 g/t Au²
 - › 40 m at 2.52 g/t Au, including 9 m at 8.83 g/t Au³
- Significant potential to expand resource with deposit open along strike and at depth
- November 10, 2015 – announced increase in share ownership of Merrex to 25%



* - B2Gold News release June 11, 2015

** - IAMGOLD News Release – February 17, 2016

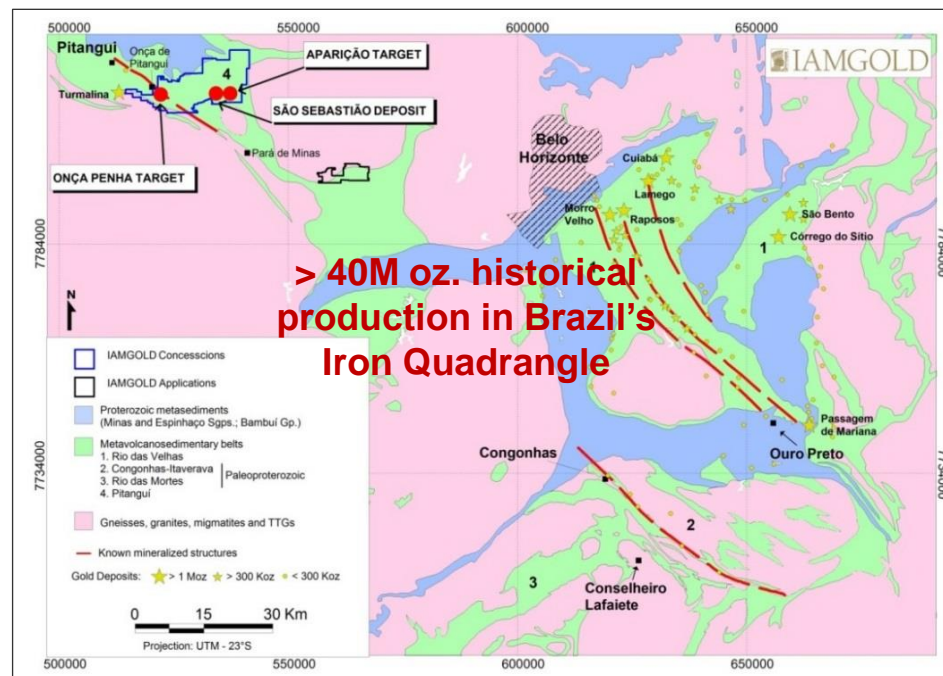
¹ Initial resource estimate effective Dec 31, 2015 reported by IAMGOLD February 9, 2016. CIM definitions were followed for classification of Mineral Resources. Cut-off grades range from 0.45 g/t Au to 0.60 g/t Au and vary by weathering material type. Mineral Resources are estimated using a gold price of US\$1,500 per ounce. Bulk density varies from 1.55 g/cm³ to 2.63 g/cm³ based on deposit and weathering code. The resources are constrained by a Whittle optimized pit shell. Numbers may not add due to rounding.

² Reported by Merrex on August 5, 2015.

³ Reported by Merrex on June 11, 2015.

Pitangui Project (Brazil)

- Infill diamond drilling program within the core area of the São Sebastião deposit completed resulting in a more robust geological model to support a revised resource estimate
 - › Inferred resource estimate increased to 679,000 ounces at 5.0 g/t Au¹
- Assay results included (July 7, 2015):
 - › 11.9 m at 6.84 g/t Au, including 3.5 m at 17.02 g/t Au
 - › 7.6 m at 9.78 g/t Au and 4.4 m at 16.56 g/t Au
 - › 7.4 m at 8.12 g/t Au
- Drilling will continue to test electromagnetic anomalies and geological targets previously identified on property

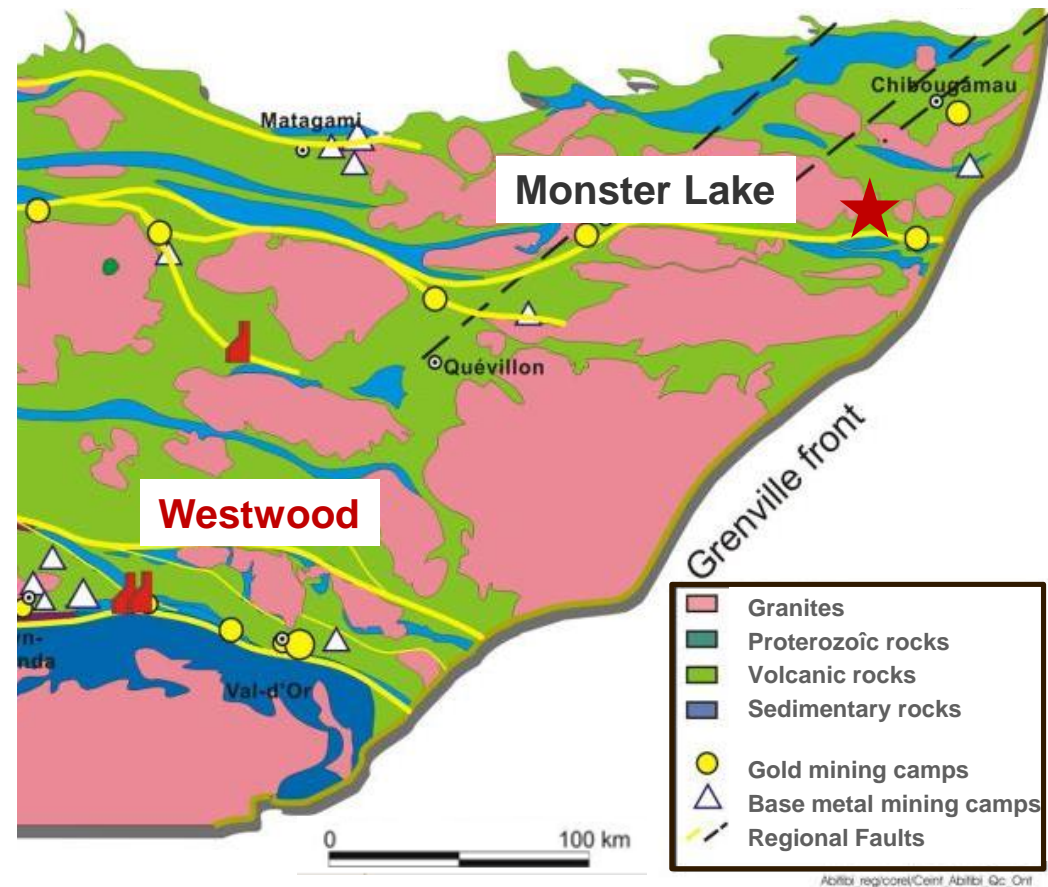


¹ Updated Resource Estimate for Pitangui, effective Dec 31, 2015 (see news release dated February 17, 2016).

Note: CIM Definitions were followed for classification of Mineral Resources. Mineral Resources are estimated at a cut-off grade of 3.0 g/t Au. Mineral Resources are estimated using a gold price of US\$1,500 per ounce. High grade assays are capped at 10 g/t Au to 15 g/t Au depending on geological area. Bulk density, as determined from 2,570 measurements, varies from 3.06 g/cm³ to 3.24 g/cm³ based on geologic area. Mineral Resources are not Mineral Reserves and do not yet have demonstrated economic viability, but are deemed to have a reasonable prospect of economic extraction. Numbers may not add due to rounding. Mineral Resources are reported on a 100% ownership basis.

Monster Lake (Quebec) – JV with TomaGold

- In 2015, 11,700 metres of diamond drilling was completed on the Megane-325 zone and other priority targets on the property
- February 22, 2016 – announced final assay results from the 2015 fall diamond drilling program completed in November. Highlights include:
 - › 3.9m at 3.30 g/t Au
 - › 2.8m at 9.05 g/t Au; including 0.5m at 48.9 g/t Au
 - › 3.3m at 1.61g/t Au
- October 30, 2015 - Amended earn-in option agreement with TomaGold
 - › Acquired 50% interest in exchange for C\$3.2M cash payment
 - › Option to increase interest to 75% with further C\$10M in exploration expenditures by 2021



High-grade Megane-325 zone extends at depth;
new gold bearing structures identified

Eastern Borosi (Nicaragua) – JV with Calibre Mining

- Drilling program in 2015 focused on diamond drilling to test selected gold and silver vein systems
- Results to date confirm multiple vein systems with high grades
- May 6, 2015 – Blag vein system drilling¹:
 - › Included highest grade silver intercepts reported to date
 - › 10.7 m at 3.08 g/t Au and 381.3 g/t Ag, including 2.6 m at 9.01 g/t Au and 949.1 g/t Ag
 - › Defined a continuous high-grade gold and silver shoot within the vein system
- July 2015 - Blag vein system drilling highlights include²:
 - › 5.4 m at 2.99 g/t Au and 31.6 g/t Ag
 - › 4.7 m at 7.84 g/t Au and 6.0 g/t Ag
 - › 19.2 m at 1.11 g/t Au and 223.4 g/t Ag
- Compiling results from 2015 to guide the 2016 exploration program



¹ Reported by Calibre Mining May 6, 2015.

² Reported by Calibre Mining July 20, 2015.

Appendices

All-In Sustaining Costs^{1,2}

Q4 2015

Full Year 2015

Rosebel	Essakane	Westwood	Total IAMGOLD	\$/ounce	Rosebel	Essakane	Westwood	Total IAMGOLD
\$1,420	\$1,024	\$1,265	\$1,202	Reported AISC	\$1,165	\$1,010	\$1,292	\$1,118
(58)	(55)	(130)	(59)	Hedge losses pertaining to 2015	(46)	(75)	(93)	(63)
(382)	-	-	(123)	Lease buy-back at Rosebel	(94)	-	-	(33)
-	-	826	36	Normalization of Westwood's costs	-	-	436	35
\$980	\$969	\$1,961	\$1,056	AISC before unusual items	\$1,025	\$935	\$1,635	\$1,057

¹ This is a non-GAAP measure. Refer to the non-GAAP performance measures section of the MD&A for reconciliation to GAAP.

² Consists of Rosebel, Essakane, Westwood, Sadiola and Yatela on an attributable basis.

2015 Reserves and Resources¹

Contained Gold (000s attributable oz.) <i>As of December 31, 2015</i>	2015	Change	2014
Total proven and probable mineral reserves	7,690	(11%)	8,608
Total measured and indicated mineral resources ^{2,3}	23,482	10%	21,412
Total inferred resources	6,733	(4%)	7,018

- Gold reserves have been estimated at our owned and operated mines using a gold price of \$1,200 per ounce in 2015.
- Resources for our owned and operated mines have been estimated using a gold price of \$1,500 per ounce in 2015.

¹ Detail behind the gold price assumptions used to determine reserves and resources can be found in the Reserves and Resources section of the MD&A.

² Measured and indicated gold resources are inclusive of proven and probable reserves.

³ In mining operations, measured and indicated resources that are not mineral reserves are considered uneconomic at the price used for reserves estimations, but are deemed to have a reasonable prospect of economic extraction.

2016 Capital Expenditure Outlook¹

(\$ millions)	Sustaining ¹	Development/ Expansion (Non-sustaining)	Total
Rosebel	50	15	65
Essakane	85	0	85
Westwood	15	65	80
Total gold segments	150	80	230
Corporate & Development Projects ²	-	10	10
Total consolidated	150	90	240
Joint ventures	5	5	10
Total ³(±10%)	155	95	250

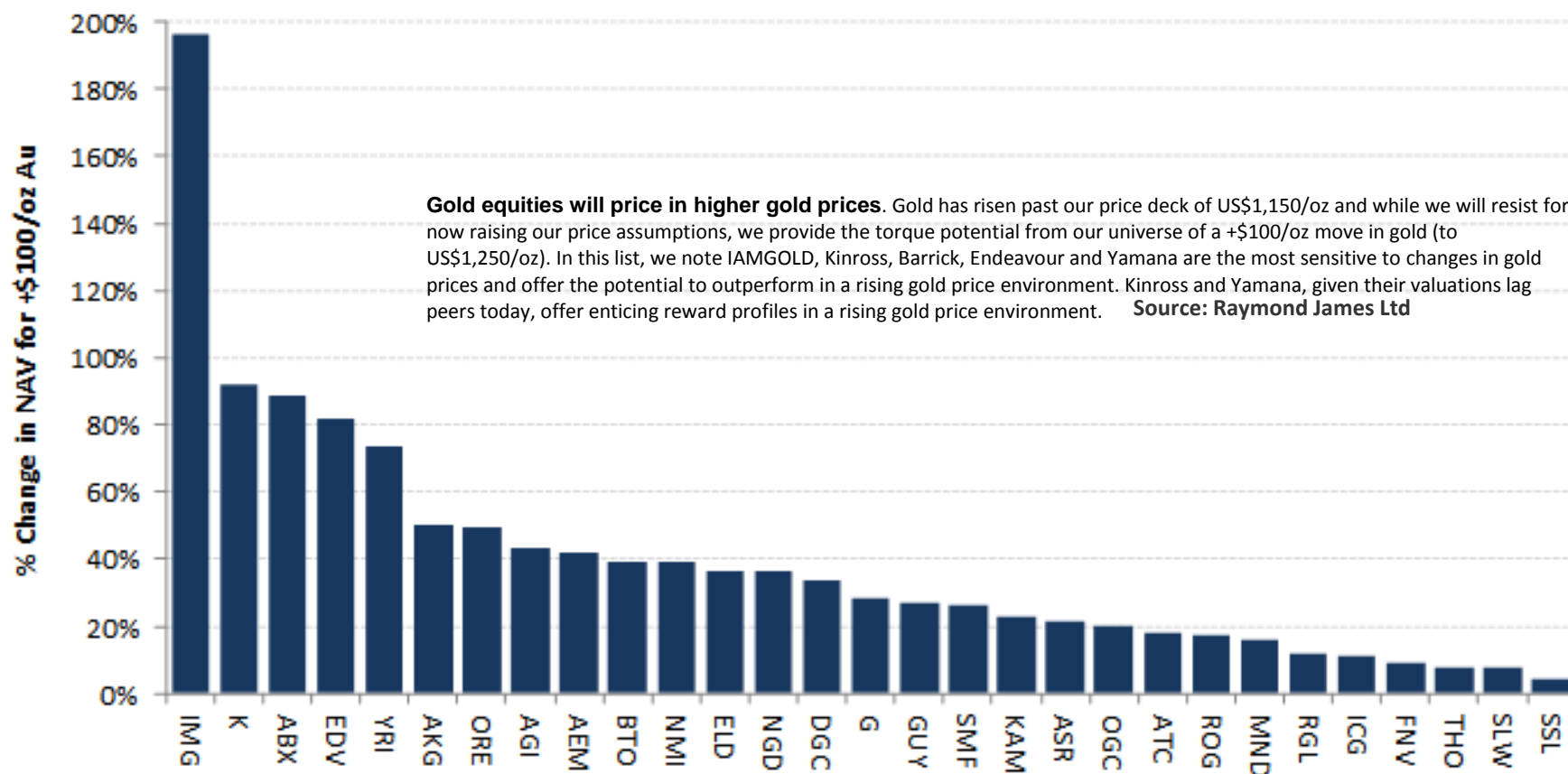
¹ Includes capitalized stripping of \$14 million at Rosebel and \$43 million at Essakane.

² Includes capital spending at Côté Gold and Boto Gold.

³ Capitalized borrowing costs are not included.

IAMGOLD Leads with its Torque Potential

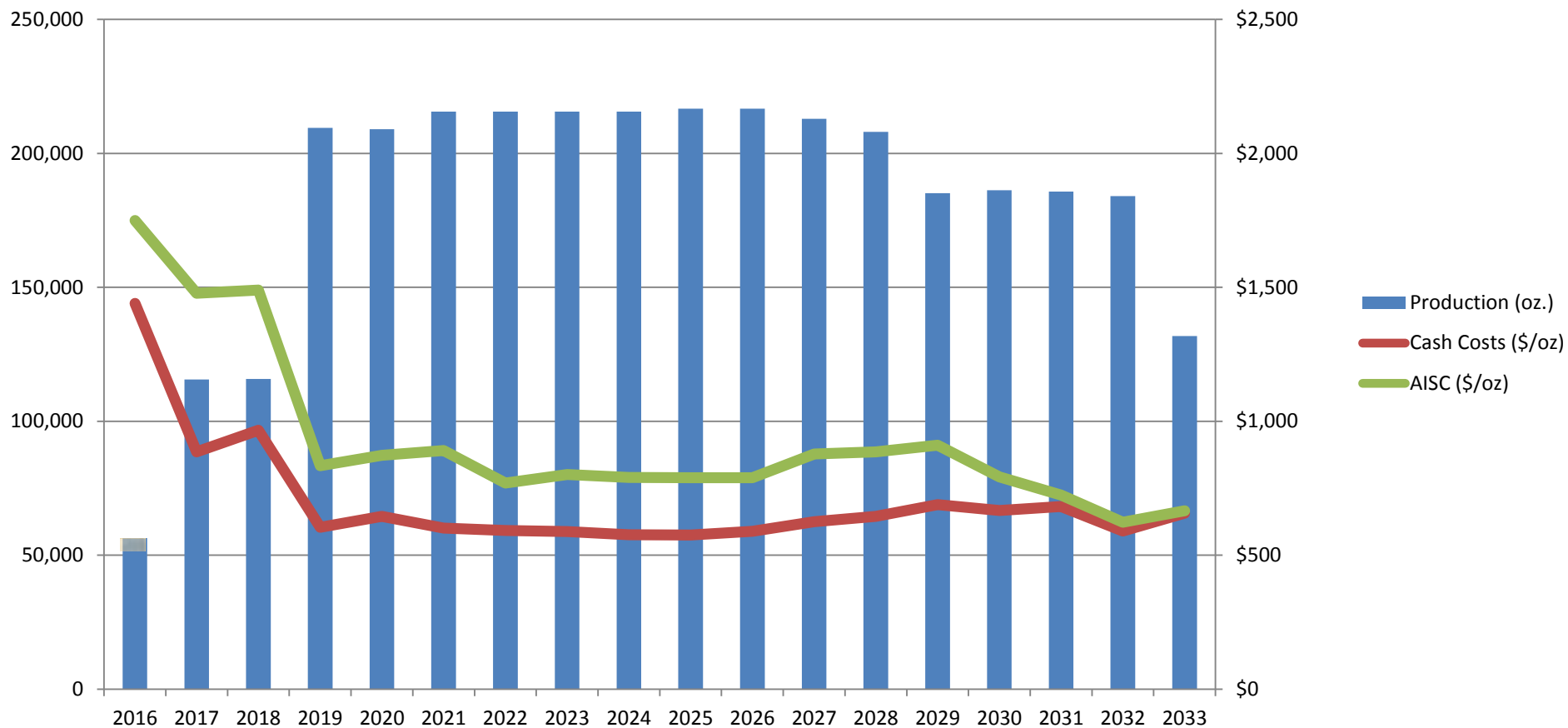
% Change in NAV for a \$100/oz Increase in Gold Price



Source: Raymond James Ltd.
February 9, 2016

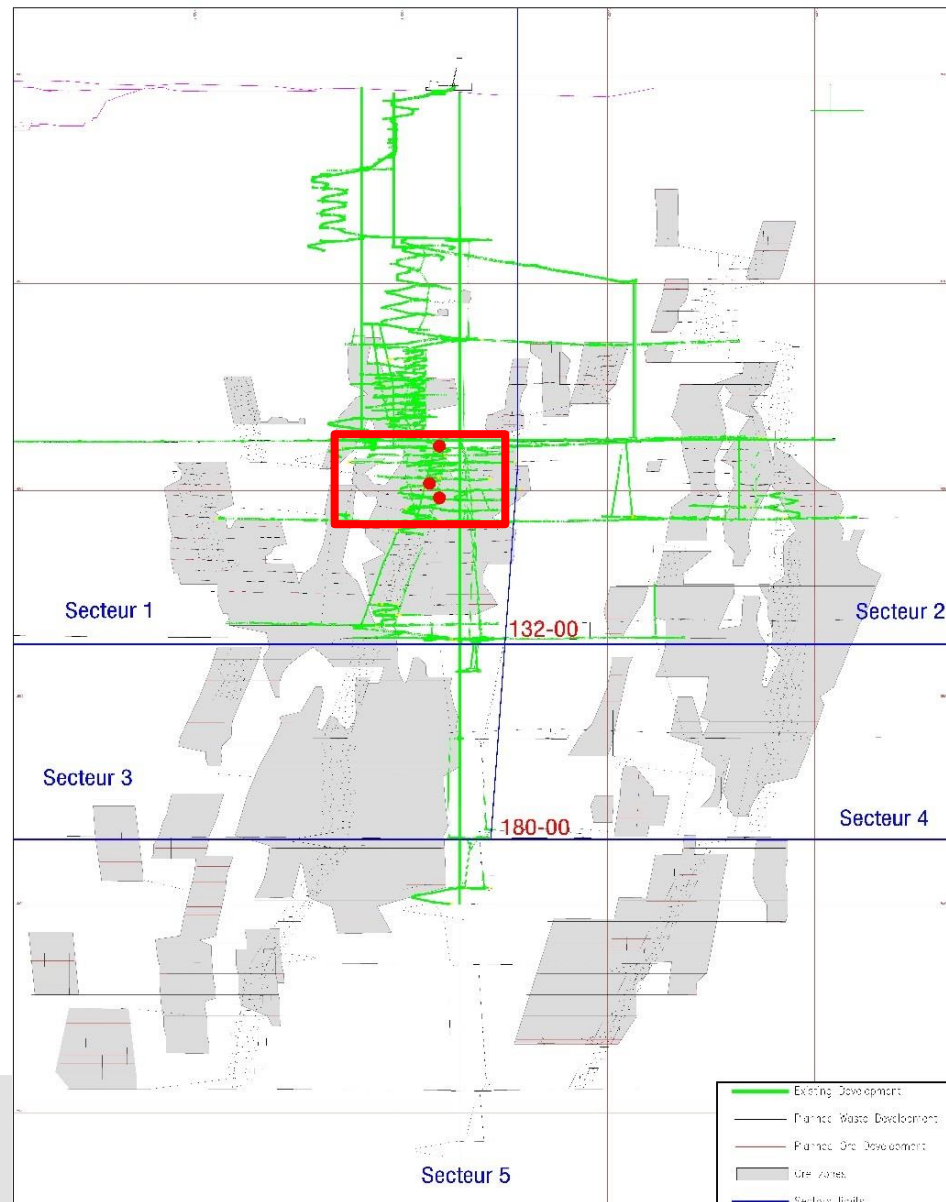
Westwood LOM – Production and Costs Forecast

Westwood LOM Forecast



*includes inferred resources

Location of Zone Affected by May Seismic Event



Review Process & Conclusions

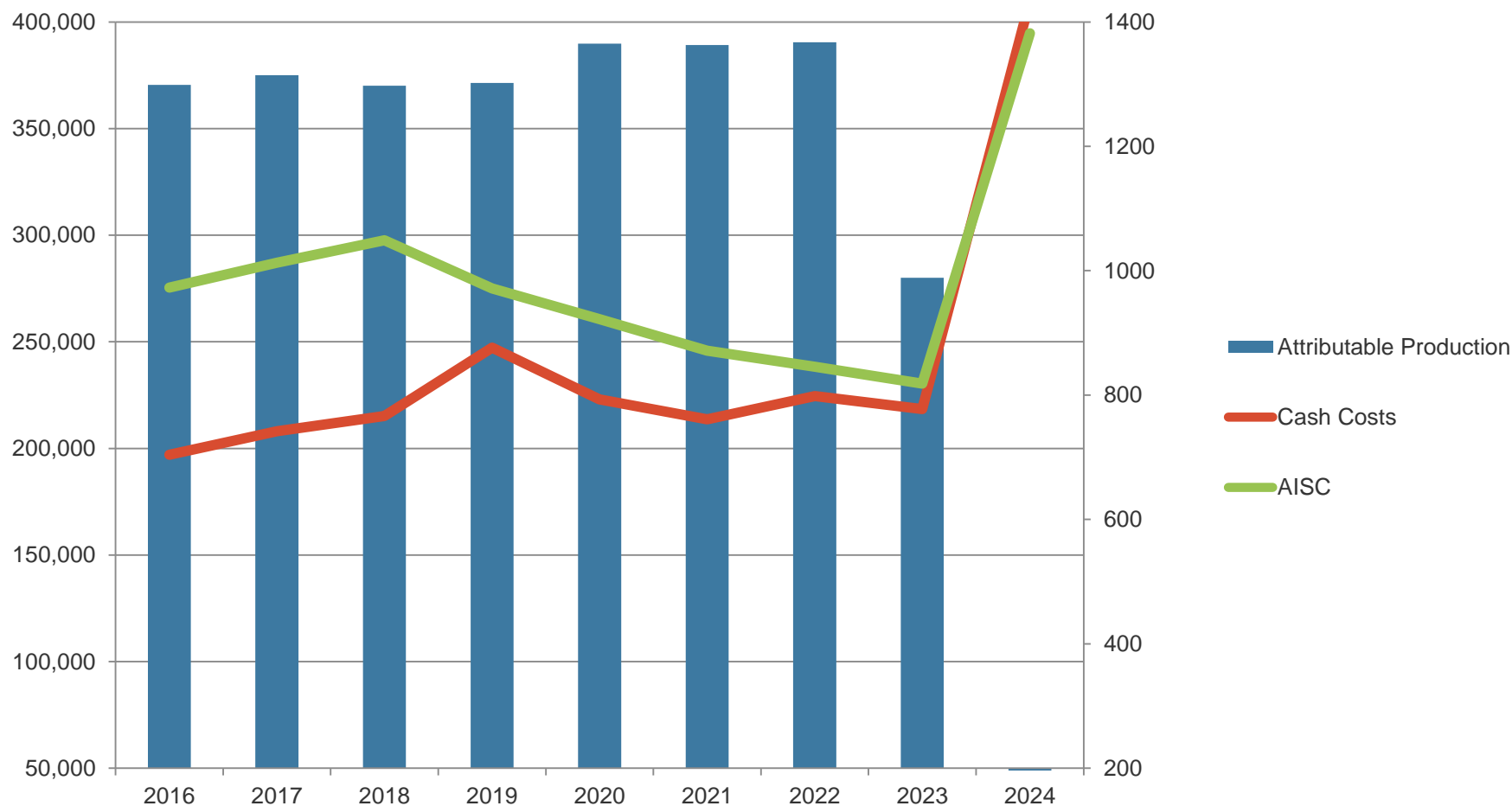
Review:

- Technical review in parallel with ICAM investigation
- Lead by WW Rock Mechanics Group with significant support from Longueuil Technical Services Group
- Principal consultant: Rob Mercer, Knight Piesold Ltd.
- Other Experts:
 - › Kathy Kalenchuk, MDEng (numeric modeling)
 - › Dave Collins, Yuzo Toya et al., ESG Solutions (seismic analyses)

Conclusions:

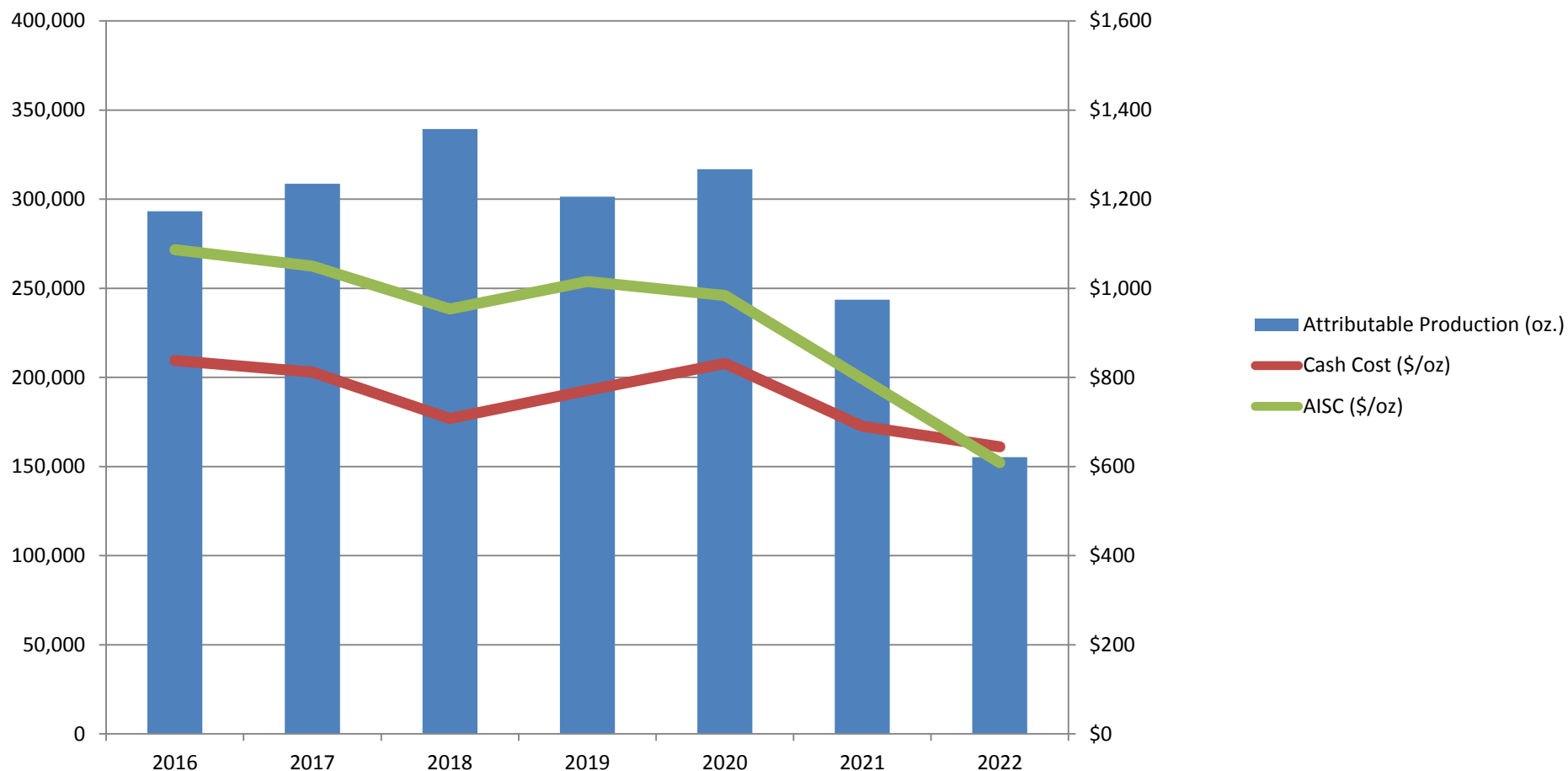
- Rejected failure hypotheses
 - › Movement
 - › Production blasting/stress redistribution due to ore mining sequence
 - › Water management
- Peer review concluded that these events could not have been anticipated
- Appropriate risk management strategies are available

Essakane LOM – Production and Costs Forecast



Rosebel – Production and Costs Forecast

Rosebel LOM Forecast



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