IAMGOLD® CORPORATION

Rosebel Reserves and Resources Update

July 27, 2017

Empowering People, Extraordinary Performance

| TSX: IMG | NYSE: IAG |

Cautionary Statement

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.

For a more comprehensive discussion of the risks faced by the Company, and which 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 forward-looking information or forward-looking statements, please refer to the Company's latest Annual Information Form, filed with Canadian securities regulatory authorities at www.sedar.com, and filed under Form 40-F with the United States Securities Exchange Commission at www.sec.gov/edgar.shtml. The risks described in the Annual Information Form (filed and viewable on www.sedar.com and www.sec.gov/edgar.shtml, and available upon request from the Company) are hereby incorporated by reference into this presentation.

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.

Technical Information/Qualified Person:

The technical information in this presentation has been prepared with the consent and prior review of IAMGOLD's EVP and COO Gord Stothart, P.Eng.

Balanced Business Model

Short-Cycle Capacity

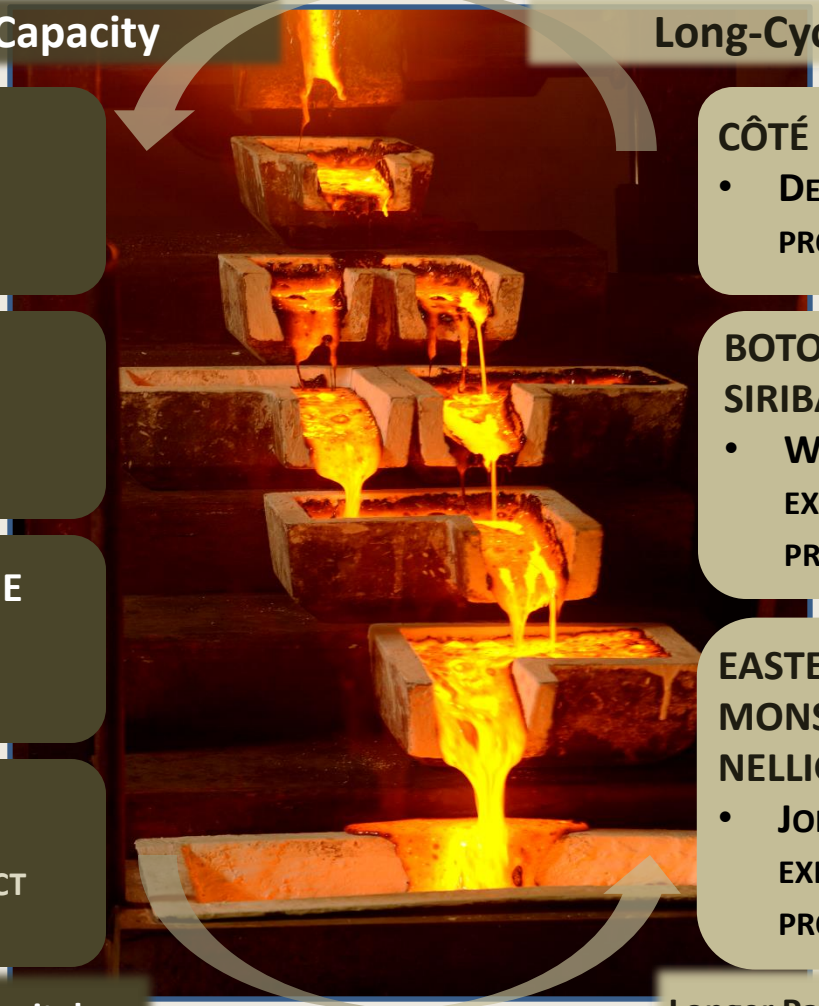
ROSEBEL MINE
- Saramacca
- Saddles

ESSAKANE MINE
- Heap Leaching
- Falagountou

WESTWOOD MINE
- Production ramp-up

SADIOLA
- Sulphide Project

Shorter Payback, Less Capital



Long-Cycle Capacity

CÔTÉ GOLD
- Development project

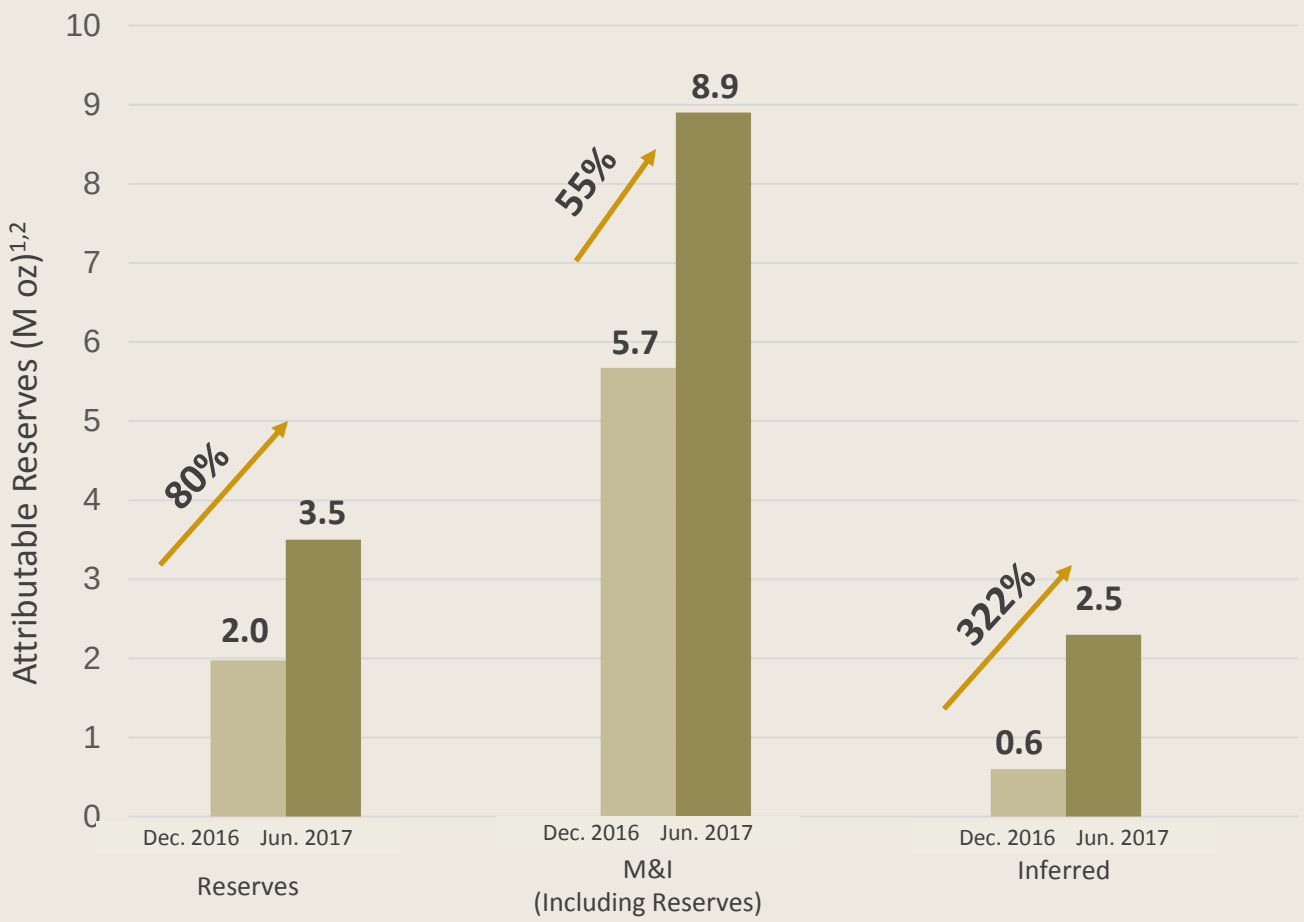
BOTO, PITANGUI, SIRIBAYA
- Wholly-owned exploration projects

EASTERN BOROSI, MONSTER LAKE, NELLIGAN
- Joint-venture exploration projects

Longer Payback, More Capital

Reserves at Rosebel Concession Increase 80%*

"This does not include Saramacca"



Reserve and resource numbers on this slide have been rounded

1. 2016 Year End Reserves and 2017 Reserves are estimated using a $US1,200/oz gold price.

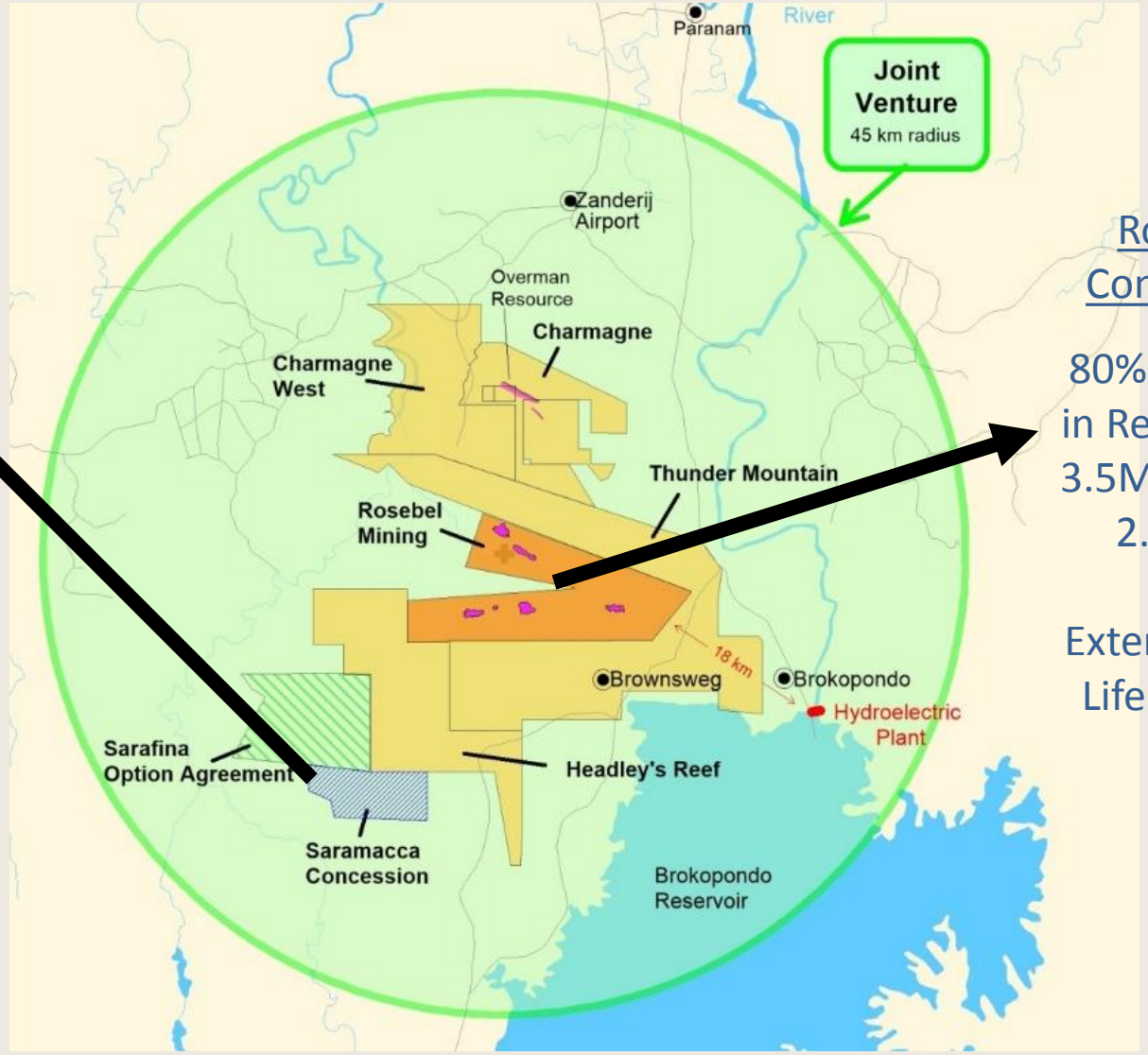
2. 2016 Year End Resources and 2017 Resources are estimated using a $US1,500/oz gold price.

Refer to: IAMGOLD News Releases dated February 22, 2017 and July 26, 2017

Transformation of Rosebel Mine Continues

Saramacca

Initial Resource Estimate Expected September 2017



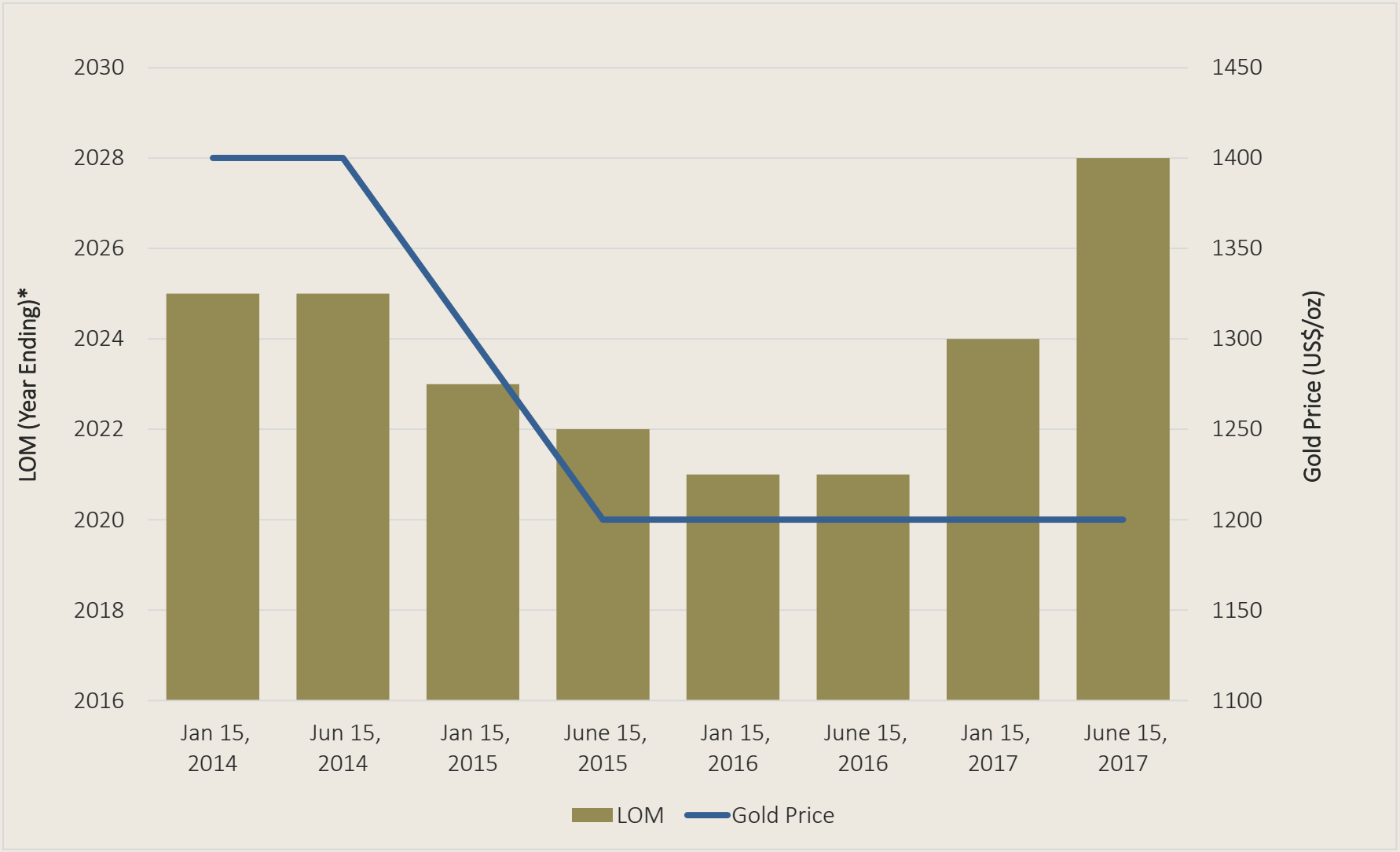
Rosebel Concession

80% increase in Reserves to 3.5M oz. from 2.0M oz

Extends Mine Life to 2028

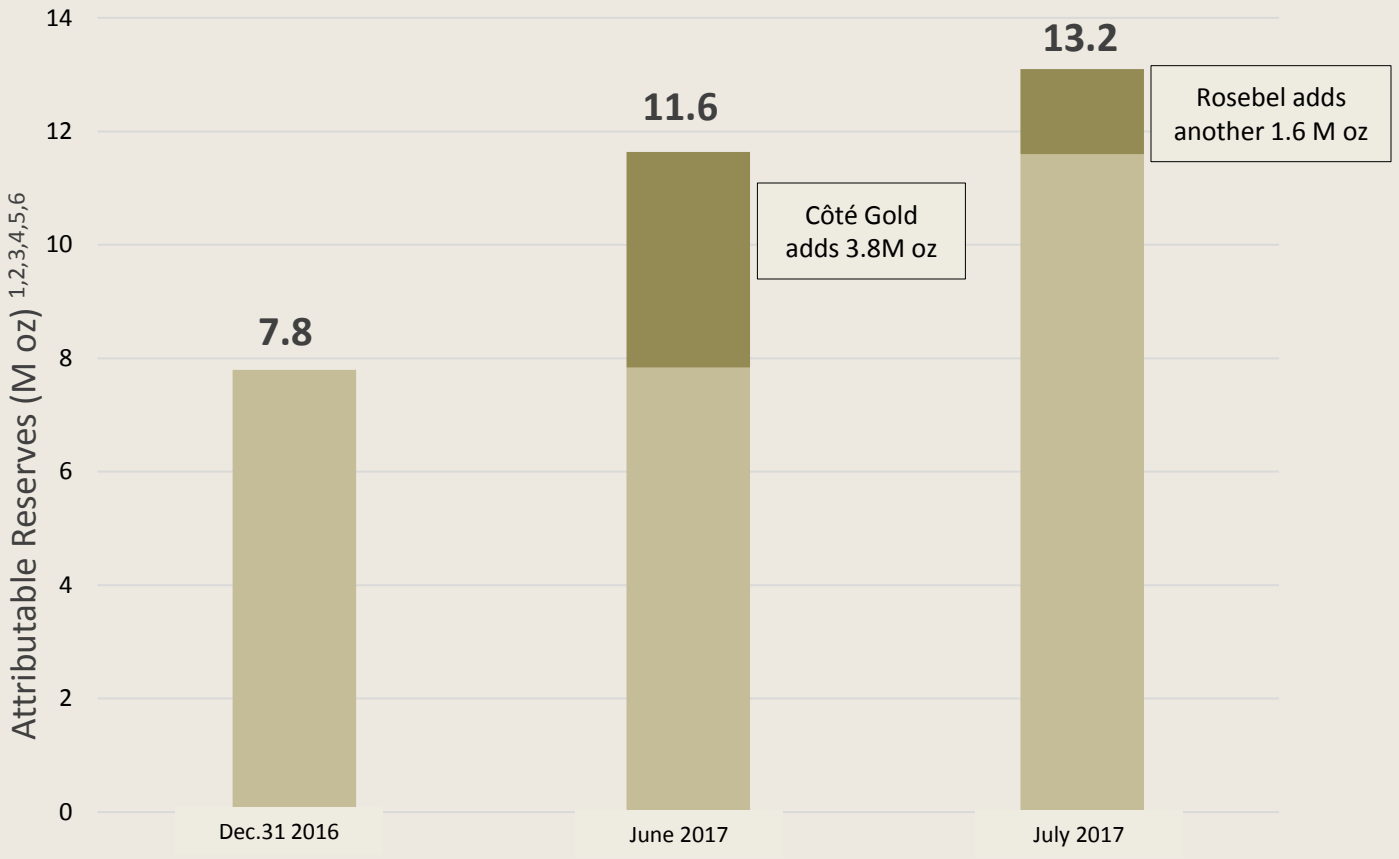
Refer to: IAMGOLD News Release dated July 26, 2017

Rosebel's LOM* vs. Gold Price Assumptions



*Internal Life of Mine Plans shown do not necessarily correlate with Reserve and Resource Statements in their coinciding year.

IAMGOLD Reserves up 69% from December 2016*



Reserve numbers included on this slide have been rounded

1. Reserves for all sites except Sadiola have been estimated in accordance with NI43-101; Reserves for Sadiola have been estimated in accordance with JORC code

2. 2016 Year End Reserves for all sites except Sadiola are estimated using a gold price of $US 1,200/oz, Sadiola uses a gold price of $US 1,100/oz;

3. 2017 Reserves for Côté Gold are estimated using an economic model assuming a gold price of $US 1,250/oz and based on a mine design originally done using a gold price of $US 1,200/oz

4. 2017 Reserves for Rosebel are estimated using a gold price of $1,200 an ounce.

5. 2017 Reserves for all other entities other than Côté Gold and Rosebel are assumed unchanged from the 2016 Year End Reserves excluding depletion or additions

6. Refer to IAMGOLD News Releases dated Feb. 22, 2017, June 5, 2017 and July 26, 2017

Resource Estimate Development

2014

- Major reconciliation audit with action plans
  - Geology, grade control, mine operations, mill operations, assay lab, QA/QC, accounting
- New Geology team in place.
  - Major review of historical geologic work, drilling programs, targeting strategy, modelling practices and all department processes
  - Blitz program on pit mapping

2015

- Commenced systematic use of Reverse Circulation (RC) for grade control
- Geology program accelerated
  - Pit mapping blitz continues, advanced geostatistical reviews of existing DDH and new RC data
  - New ore genesis / mineralization models; saddle zones identified as potential targets
- QA/QC program overhaul: High-level, cross-functional team established

Resource Estimate Development (cont.)

2016

- Greater coverage of RC grade control, reduction of blasthole grade control
- Reconciliation workshop; enhanced reconciliation processes introduced across IMG
- Drilling of saddle zone targets commenced
  - Test of concept drilling followed by detailed drilling on a few of the higher priority targets
- Preliminary resource models developed using revised geostatistical techniques
  - Models incorporate both RC and DDH drill data. Kriging followed by local uniform conditioning (LUC)
  - Extensive 3rd party review of models highlights need for additional investigations and validation
  - Sampling & QA/QC audit initiated
- R & R for year end 2016 calculated using simple depletion calculation from prior year's estimate

2017 H1

- Current Resource Models completed and validated for all orebodies
  - Sampling & QA/QC Audit completed
  - Use of co-kriging of RC & DDH data sets to manage change of support; data cutoff Nov. 2016
  - Models fit closer to historical reconciliation (more tonnage, lower grades, more ounces)
- Saddle drilling continues

Cost Improvement – 2014 to 2017

- **Significant Productivity, Quality, and Equipment Reliability improvements have been realized in mining and milling**
- **We Tjaring Waka: Operational enhancement initiative (with 3rd party) in 2014 and 2015**
  - Mine planning, mine operations, mine maintenance and mill maintenance
  - Improvement in processes, procedures, planning and management tools
  - Program was permanently imbedded as part of continuous improvement and is thriving today
- **Engineered ROM Stockpile to stabilize mill blend and reduce variability of mill feed**
  - Optimized use of installed power
  - Reduced reagent and steel consumption
- **Dilution reduction strategies in the mine**
  - Improved blast design and blast displacement measurement
  - RC grade control and improved polygon design
  - Grade control technicians on the loading equipment and enhanced digging strategies
- **Changes in the crushing and grinding circuit to maximize throughput of hard rock**
  - New SAG liner design, larger SAG grinding media, re-power SAG mill with new drive system and new secondary crusher

Cost Improvement – 2014 to 2017 (cont.)

- **Improved input prices:**
  - Fuel Price reduction
  - Favorable exchange rate movement (SRD)
- **Productivity enhancements and right sizing allowed a 10% reduction in manpower, end of 2015**
  - The expatriate component of the labour force has been optimized through increased development of national staff

Results

(2017 LOM Cost Model vs. 2015 LOM Cost Model)

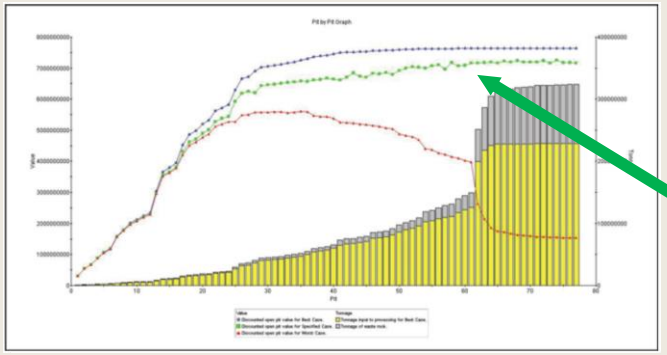
- 24% reduction in mining ($/t mined)
- 16% reduction in milling excluding power ($/t milled)
- 6% reduction in power ($/t milled)
- 18% reduction in G&A ($/t milled)

Enhanced Value Mine Plan – Money Mining

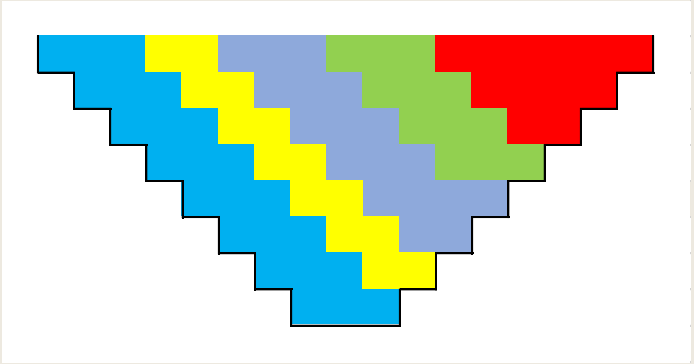
Step #1: Shell Selection

- **Whittle pit optimization used to determine maximum net discounted cash flow**
- **Selection methods incorporates phasing into the ultimate undiscounted pit shell selection, to obtain a discounted optimized cash flow.**
- **Dilution factor of 8% in soft, 10% in trans and 10% in hard rock was applied to select the optimized pit shells**
  - Resulted in smaller pit shells due to diminished value of the blocks used to determine the optimized pit shell

Apex of Theoretical Best Case



Apex of Phased case – Compromise of optimization and practicality



Multi-Pit Blending – Money Mining (Cont.)

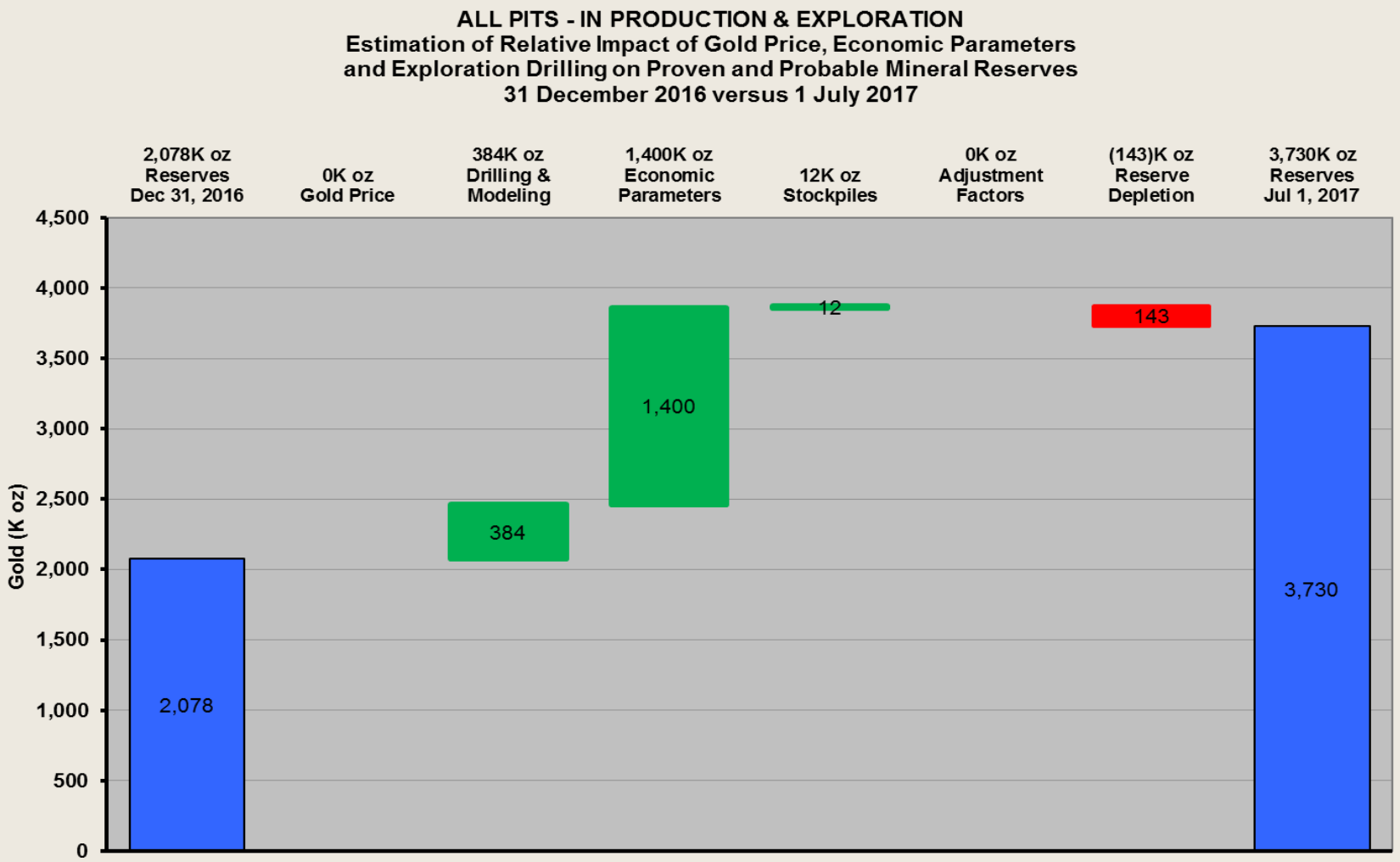
- **Detailed mine designs chosen from selected shells, with extensive use of pit phasing**

Pits	LOM 2016 Phases	LOM 2017 Phases
Rosebel	2	7
Pay Caro	3	5
J-Zone	2	5
Royal Hill	1	3
Mayo	1	5
Roma West	1	1
Roma East	0[1]	1
Koolhoven	1	0[2]
Total	11	27

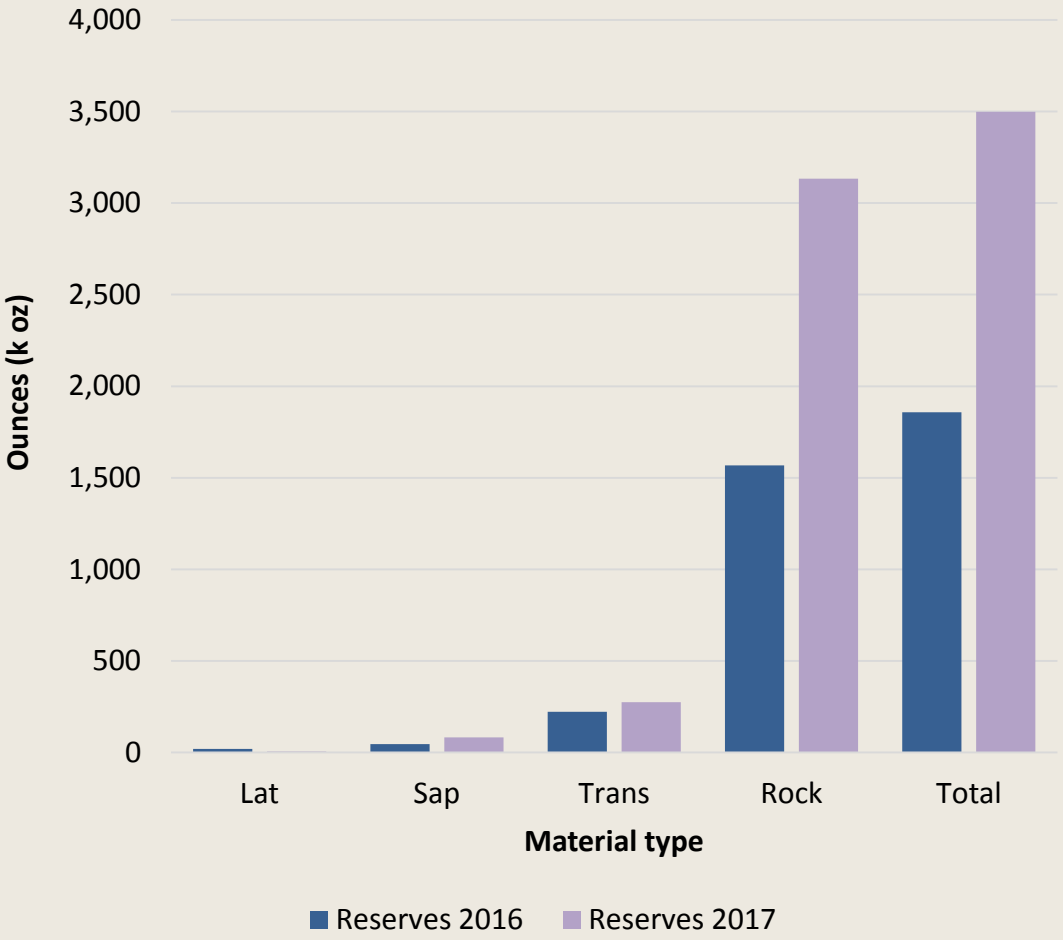
Notes:
1. Roma East not included in 2016 LOM
2. Koolhoven excluded from 2017 LOM, however prior to exclusion, had 4 phases

- **The mine schedule is then applied, using a multi-pit blending optimizer**
  - The software analyzes thousands of scenarios looking at sequencing and timing of material to mine with the goal of maximizing revenue and minimizing costs
  - The output of this exercise is a mill feed blend with variable cut-off grades, in order to accommodate the highest value blend through the mill
- **Inputs include:**
  - Mining & processing limitations (mine equipment, mill throughput, vertical rate of advance, etc.)
  - Financial assumptions (gold price, discount rate)

2017 R&R – Mineral Reserve Waterfall (100% Basis)



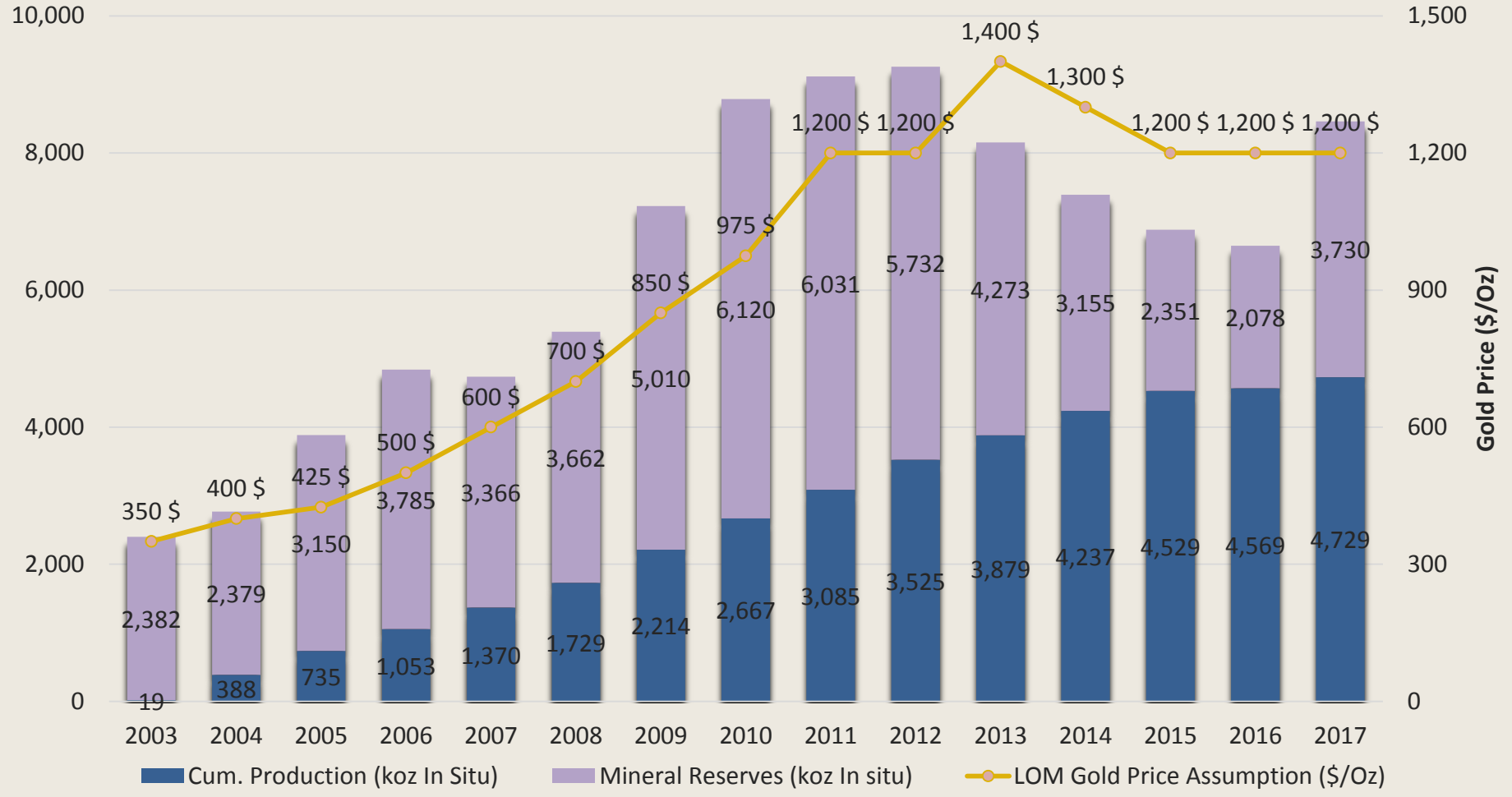
Ounces Produced per Material Type (100% Basis Exc. Stockpiles)



Average Cutoff Grades

Material Type	2016 LOM	2017 LOM	% of 2017 Reserve
Saprolite	0.23	**0.16**	5%
Transition	0.27	**0.21**	14%
Hard Rock	0.43	**0.45**	81%

Historical Production vs. Reserves



Conclusion

1. Longevity

2. Innovation

3. Optimization

4. Continuous Cost Improvement

5. Additional Catalysts Coming

IAMGOLD®
CORPORATION

Ken Chernin
VP, Investor Relations
T: 416-360-4743

Laura Young
Director, Investor Relations
T: 416-933-4952

Shae Frosst
Associate, Investor Relations
T: 416-933-4738

Empowering People, Extraordinary Performance

| TSX: IMG | NYSE: IAG |