



HIDDEN VALLEY

PNG MINING AND PETROLEUM INVESTMENT CONFERENCE 2016

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2016



PRIVATE SECURITIES LITIGATION REFORM ACT SAFE HARBOUR STATEMENT

This presentation contains forward-looking statements within the meaning of the safe harbor provided by Section 21E of the Securities Exchange Act of 1934, as amended, and Section 27A of the Securities Act of 1933, as amended, with respect to our financial condition, results of operations, business strategies, operating efficiencies, competitive positions, growth opportunities for existing services, plans and objectives of management, markets for stock and other matters. These include all statements other than statements of historical fact, including, without limitation, any statements preceded by, followed by, or that include the words “targets”, “believes”, “expects”, “aims”, “intends”, “will”, “may”, “anticipates”, “would”, “should”, “could”, “estimates”, “forecast”, “predict”, “continue” or similar expressions or the negative thereof.

These forward-looking statements, including, among others, those relating to our future business prospects, revenues and income, wherever they may occur in this report and the exhibits to this report, are essentially estimates reflecting the best judgment of our senior management and involve a number of risks and uncertainties that could cause actual results to differ materially from those suggested by the forward-looking statements. As a consequence, these forward-looking statements should be considered in light of various important factors, including those set forth in this presentation. Important factors that could cause actual results to differ materially from estimates or projections contained in the forward-looking statements include, without limitation: overall economic and business conditions in South Africa, Papua New Guinea, Australia and elsewhere, estimates of future earnings, and the sensitivity of earnings to the gold and other metals prices, estimates of future gold and other metals production and sales, estimates of future cash costs, estimates of future cash flows, and the sensitivity of cash flows to the gold and other metals prices, statements regarding future debt repayments, estimates of future capital expenditures, the success of our business strategy, development activities and other initiatives, estimates of reserves statements regarding future exploration results and the replacement of reserves, the ability to achieve anticipated efficiencies and other cost savings in connection with past and future acquisitions, fluctuations in the market price of gold, the occurrence of hazards associated with underground and surface gold mining, the occurrence of labor disruptions, power cost increases as well as power stoppages, fluctuations and usage constraints, supply chain shortages and increases in the prices of production imports, availability, terms and deployment of capital, changes in government regulation, particularly mining rights and environmental regulation, fluctuations in exchange rates, the adequacy of the Group’s insurance coverage and socio-economic or political instability in South Africa and Papua New Guinea and other countries in which we operate.

For a more detailed discussion of such risks and other factors (such as availability of credit or other sources of financing), see the Company’s latest Integrated Annual Report and Form 20-F which is on file with the Securities and Exchange Commission, as well as the Company’s other Securities and Exchange Commission filings. The Company undertakes no obligation to update publicly or release any revisions to these forward-looking statements to reflect events or circumstances after the date of this presentation or to reflect the occurrence of unanticipated events, except as required by law.

OUR VALUES



WHERE WE OPERATE

South Africa



Listed on JSE and NYSE

9 underground operations ■●

1 open pit mine ▲

Multiple surface sources ●

Papua New Guinea



Hidden Valley open pit mine ▲

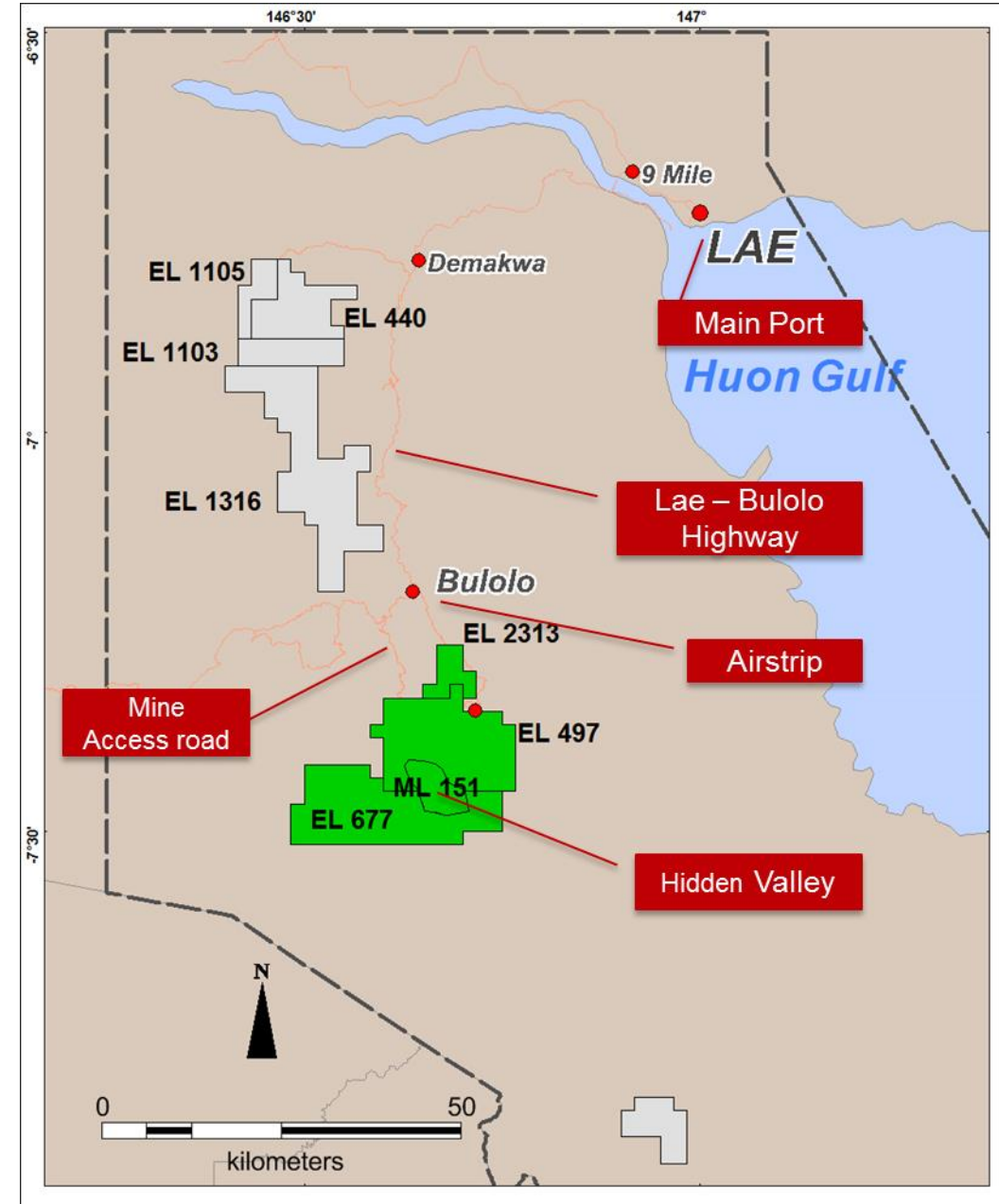
Wafi Golpu project (50:50 JV) ●

Multiple exploration areas (50% and 100%)

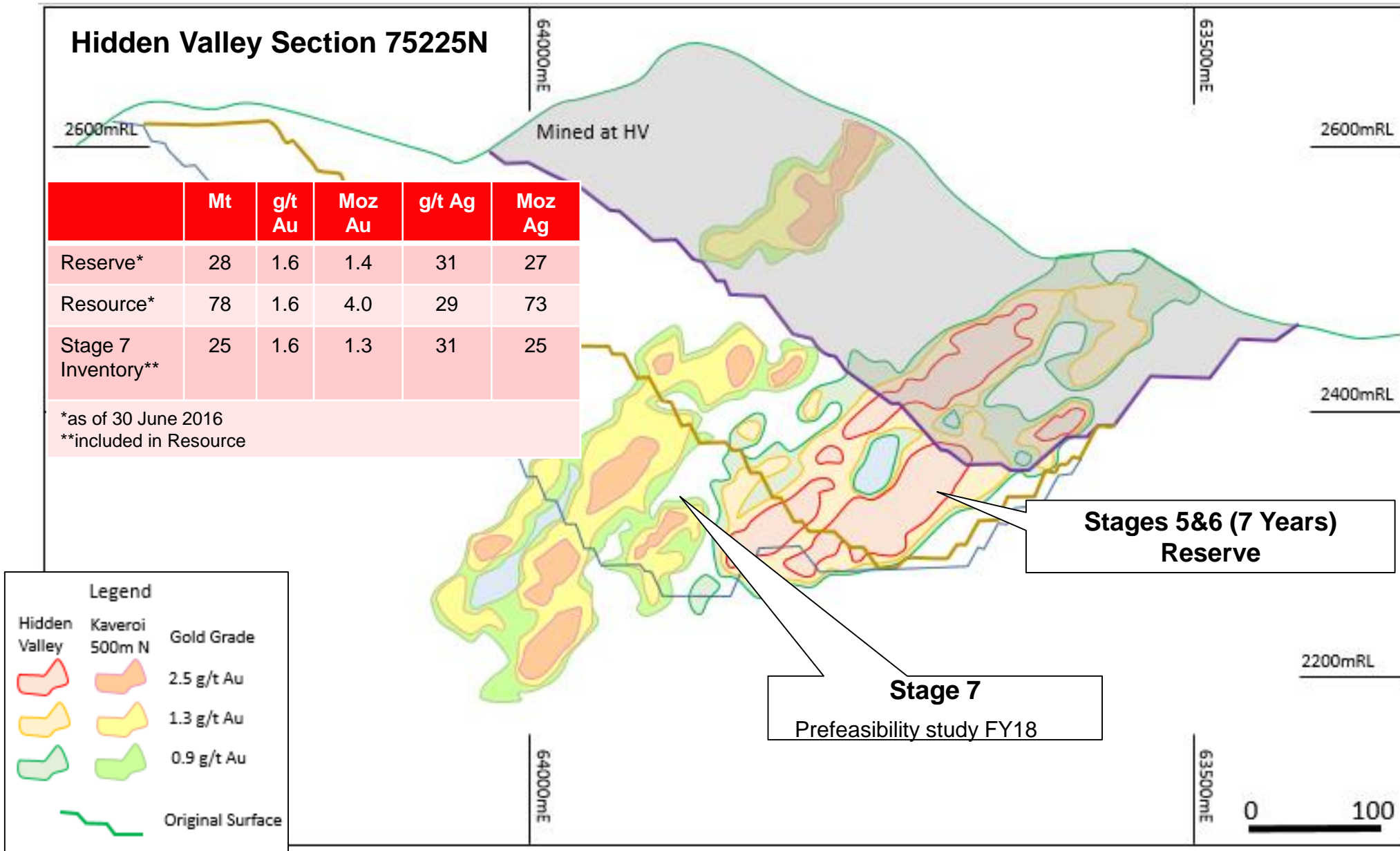
Kili Teke discovery (100% owned) ■

LOCATION

- ◆ Hidden Valley tenements located in the Morobe Province PNG
- ◆ Mine site is 140km from Lae via road
- ◆ Goods come in through Lae and transported along Lae – Bulolo Highway (100km) and via Mine Access road (40km)
- ◆ River crossing at Kumalu River



RESOURCE AND RESERVES



HARMONY – PNG HISTORY

- ◆ Established presence in Papua New Guinea since 2004
- ◆ Hidden Valley – access road construction commenced July 2006
- ◆ Harmony and Newcrest establish Joint venture in Morobe Province PNG May 2008
- ◆ Hidden Valley officially opened September 2010
- ◆ Harmony acquired 100% of Hidden Valley in October 2016



SUMMARY OF HIDDEN VALLEY ACQUISITION

- ◆ Transaction announced September 2016, concluded October 2016 with all conditions met
- ◆ 100% ownership of producing gold and silver mine in PNG – a proven gold province
- ◆ Attractive reserve life with extension possible within the current open pit resource
- ◆ Established quality management team and stable workforce
- ◆ Identified opportunities to further reduce costs
- ◆ Hidden Valley forms an important part of Harmony's growth strategy





OUR STRATEGY



OUR STRATEGY



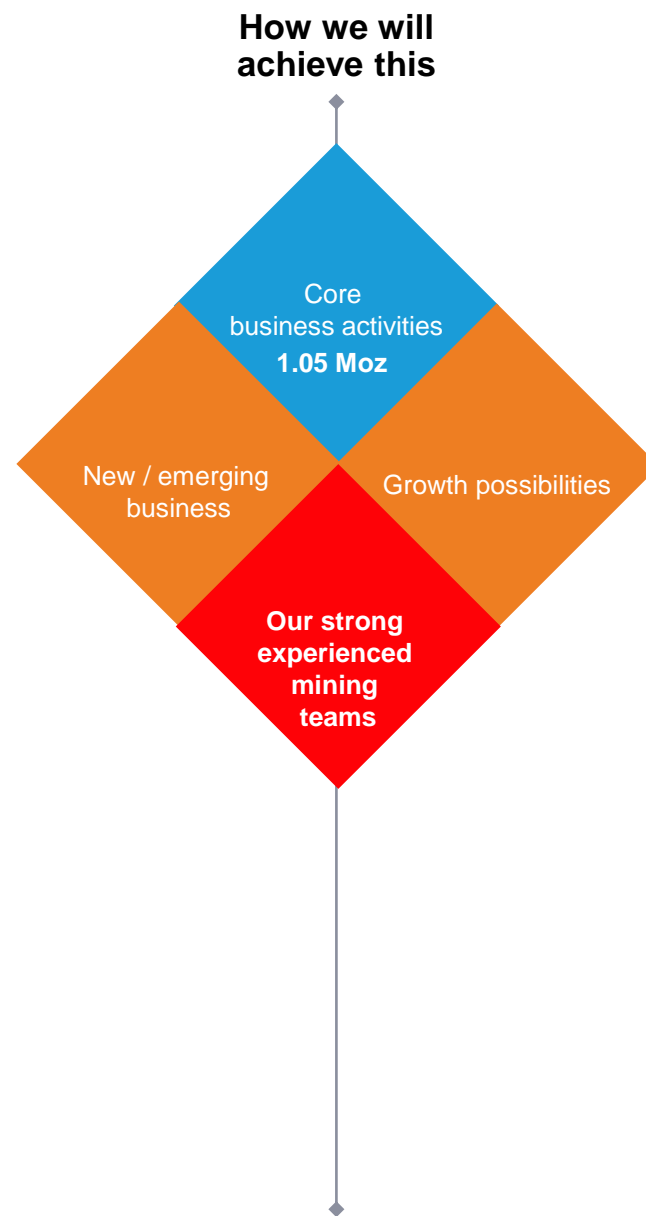
- ◆ Enabling environment
- ◆ Maintaining disciplined cost management
- ◆ Positioned high cost operations for profitability
- ◆ Disciplined mining
- ◆ Living our values
- ◆ Increasing productivity
- ◆ Grade management

- ◆ Achieving operational plans
- ◆ Hedging to protect our margins
- ◆ Strong balance sheet
- ◆ Dividends – paid out of profits

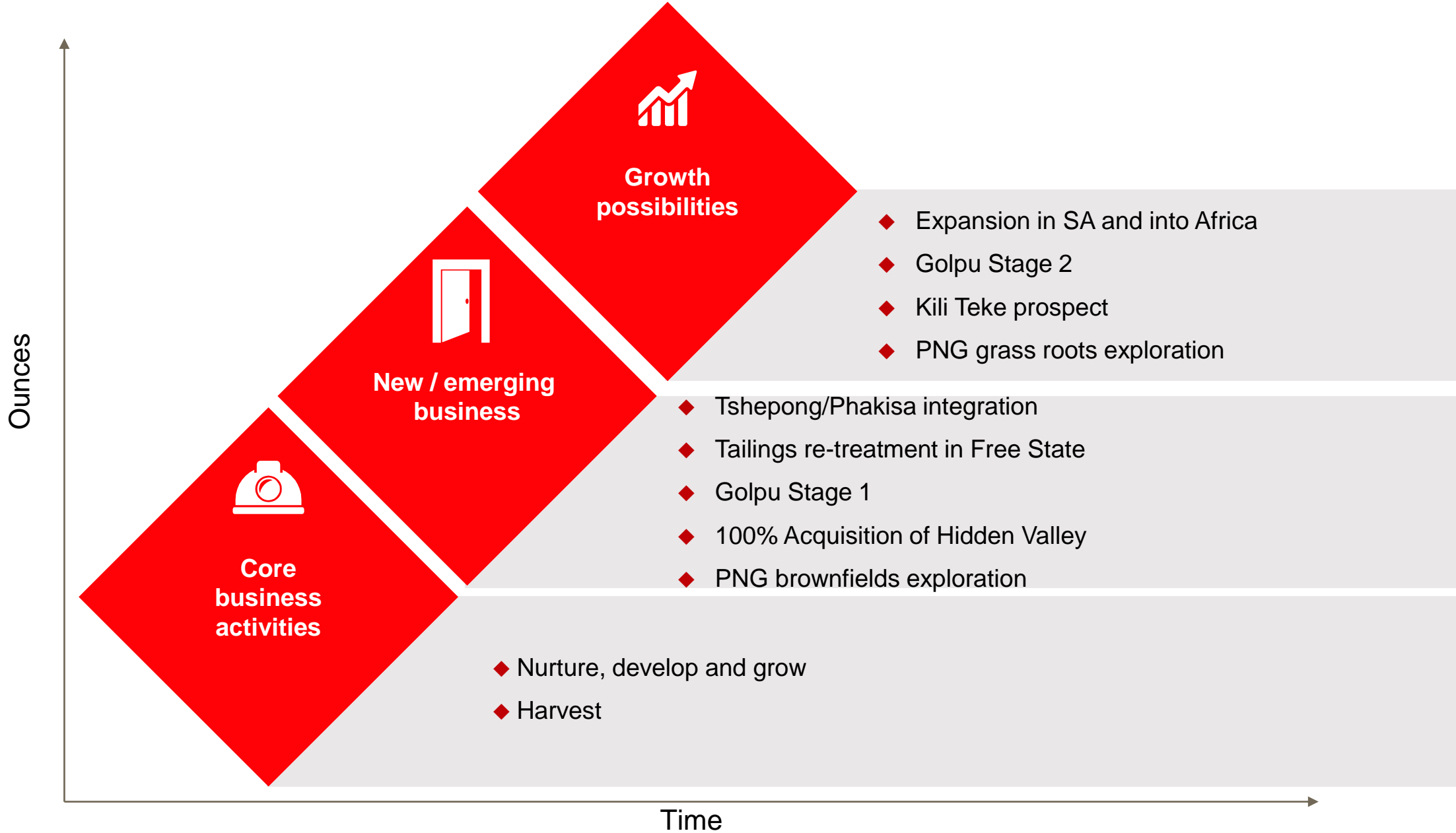
- ◆ Repaying debt a priority
- ◆ Growth through
 - organic growth
 - exploration
 - acquisitions

OUR ASPIRATION IS TO GROW....BUT NOT AT ALL COST

Producing
1.5 Moz
at less than **US\$950/oz.** within a
THREE YEAR PERIOD



GROWING FROM 1.1 MOZ TO 1.5 MOZ





SAFETY, HEALTH AND SECURITY



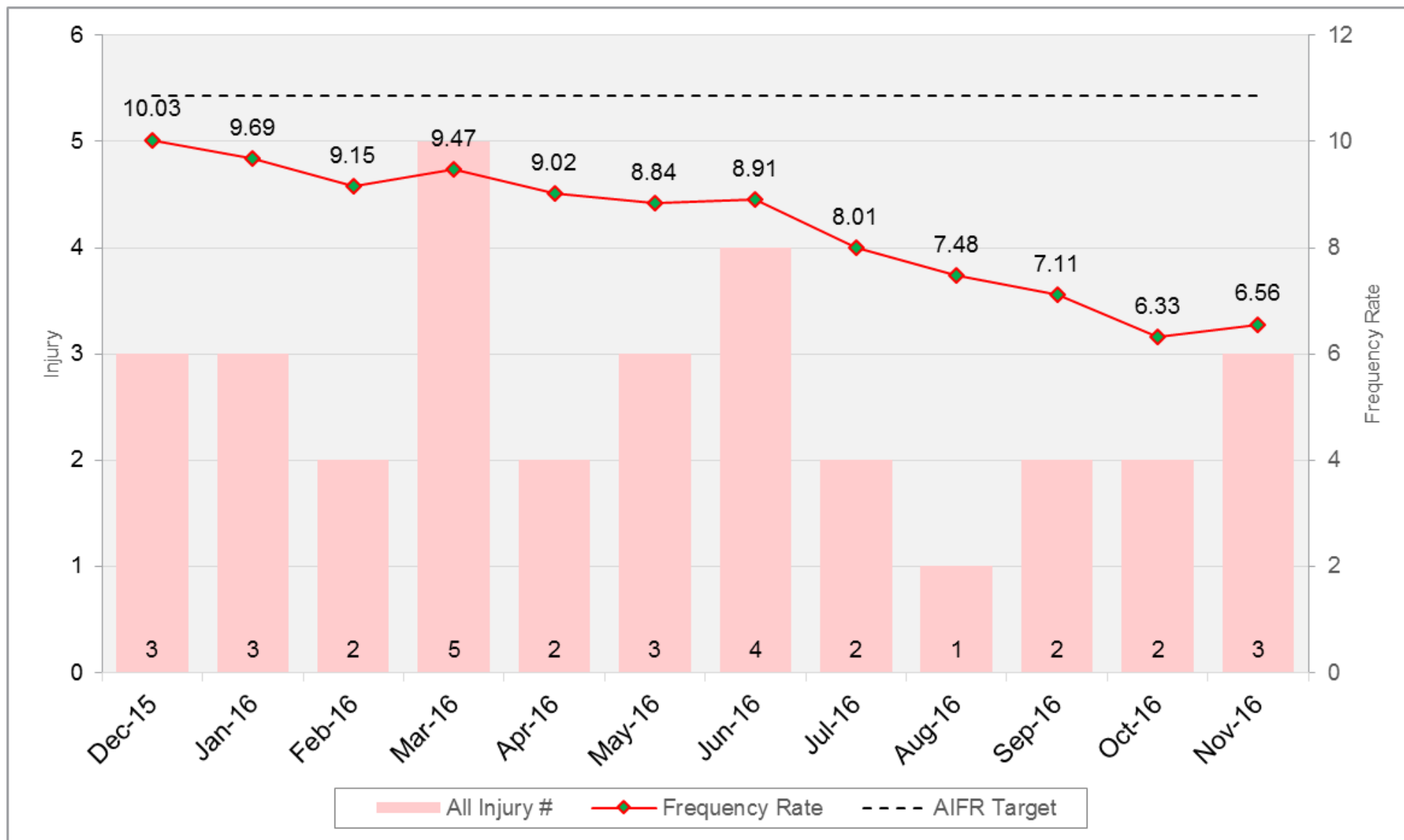
SAFETY, HEALTH AND SECURITY – OUR TOP PRIORITY



HEALTH, SAFETY & SECURITY – OUR TOP PRIORITY

- ◆ 143 LTI free days, 273 recordable injury free days
- ◆ Management of major hazards, fatal risk and high risk activities
 - High risk task assessments
 - Vehicle operations, vehicle/pedestrian interaction, tree felling, working at heights
 - Ensure critical controls in place for every high risk task and verified
 - Employee competency cards, personal risk assessments, supervisor work menus
- ◆ Training
 - Hazard identification / risk assessment and closing out corrective actions fully
 - Supervisor development and operating discipline
- ◆ Initiatives
 - Visible Felt Safety Leadership
 - Operator safety awareness and behaviours coaching
 - Vehicle tracking and video monitoring

ALL INJURY FREQUENCY RATE CONTINUES TO DECLINE



HEALTH

- ◆ Well equipped and accredited on site medical centre
- ◆ Employee medicals conducted on site
- ◆ Health monitoring programs
 - Human Immunodeficiency Virus (HIV)
 - Tuberculosis and hypertension
- ◆ Occupational hygiene monitoring
- ◆ Initiatives
 - Cancer awareness
 - HIV



COMMUNITY AND REGIONAL DEVELOPMENT

- ◆ Sustainable development plan and program initiated in 2010
- ◆ Development planning aligned with Community, Ward, LLG and District priorities
- ◆ Ongoing investment in community and regional development
 - Health
 - Birth attendant training, logistic support, medivacs
 - Water supply and sanitation
 - Education
 - Infrastructure support, teacher support, books, training
 - Agriculture
 - Coffee and Cocoa
 - Community and LLG capacity building programs
 - Working to acquire additional development partnerships for the region





MINING HIDDEN VALLEY

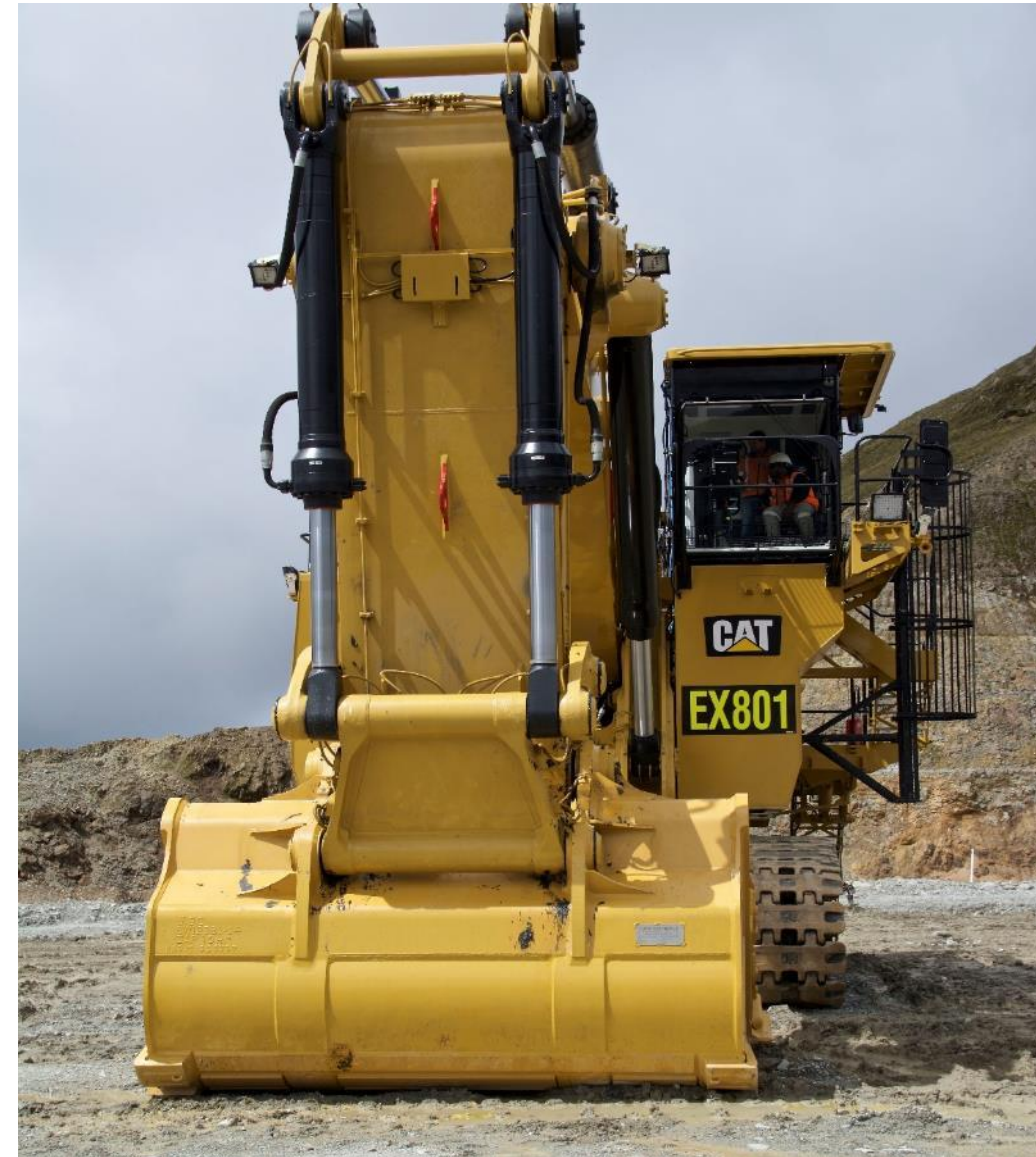


HIDDEN VALLEY MINE - OVERVIEW



HIDDEN VALLEY LIFE OF MINE

- ◆ Seven year life of mine
- ◆ Investment of up to Kina 560 million in the next 2 years
- ◆ Stage 5 and 6 life-of-mine production of 1.2Moz gold and 18Moz of silver
- ◆ Planned production at steady state of 180,000oz of gold and 3Moz of silver



HIDDEN VALLEY PLAN PROGRESS

- ◆ Waste stripping at Stage 5 has commenced
- ◆ Investment in additional and replacement mobile fleet underway – 9 additional mining trucks purchased
- ◆ Stockpile processing with Hamata ore continues
 - SAG reline completed during November
- ◆ Planning for plant maintenance and upgrade projects during the mill shut down underway
- ◆ Recruitment of additional 200 personnel to operate and maintain additional mining equipment well advanced



MINING PROGRESS

- ◆ Hidden Valley Kaveroi Main pit Stage 5 and 6 are push backs onto current highwall
- ◆ Mine rate ramps up to 28Mtpa
- ◆ Four main production diggers (1 x 300t and 3 x 200t)
- ◆ 35 x 96t dump trucks
- ◆ Fully engineered waste dumps designed for life of mine



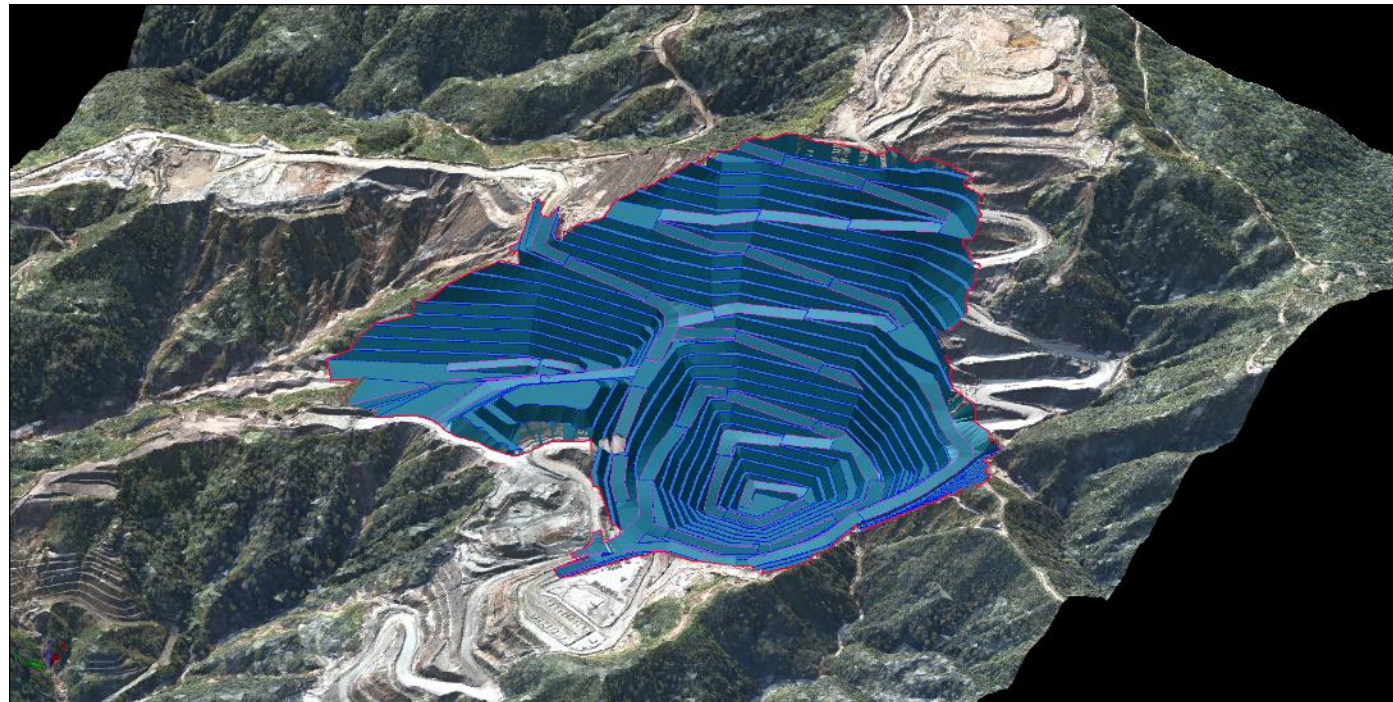
MINING STAGE 5

- ◆ Hidden Valley Kaveroi Main pit Stage 5 and 6 are push backs onto current highwall
- ◆ Mine rate ramps up to 28Mtpa
- ◆ Four main production diggers (1 x 300t and 3 x 200t)
- ◆ 35 x 96t dump trucks
- ◆ Fully engineered waste dumps designed for life of mine



MINING STAGE 6

- ◆ Hidden Valley Kaveroi Main pit Stage 5 and 6 are push backs onto current highwall
- ◆ Mine rate ramps up to 28Mtpa
- ◆ Four main production diggers (1 x 300t and 3 x 200t)
- ◆ 35 x 96t dump trucks
- ◆ Fully engineered waste dumps designed for life of mine



PROCESSING

- ◆ 4 million tonnes per annum
- ◆ SAG mill, gravity, flotation and CIL
- ◆ High reliability
- ◆ Gold recovery ~85%
- ◆ Silver recovery ~75%
- ◆ INCO and CAROS cyanide destruction circuits
- ◆ Power from grid (15MW)
 - 100% backup via on site diesel generation



TAILINGS STORAGE FACILITY

- ◆ Terrestrial tailing storage facility (TSF)
- ◆ Capacity for current Reserve
- ◆ Detailed engineered structure
 - four main zones, built up in 450mm compacted lifts
- ◆ Water pond kept to a minimum
- ◆ Regular 3rd party audits
- ◆ 7.1 magnitude earthquake
 - 2011, 30km from dam no visible or measurable movement



REGIONAL ECONOMIC IMPACT OF MINE RE-INVESTMENT

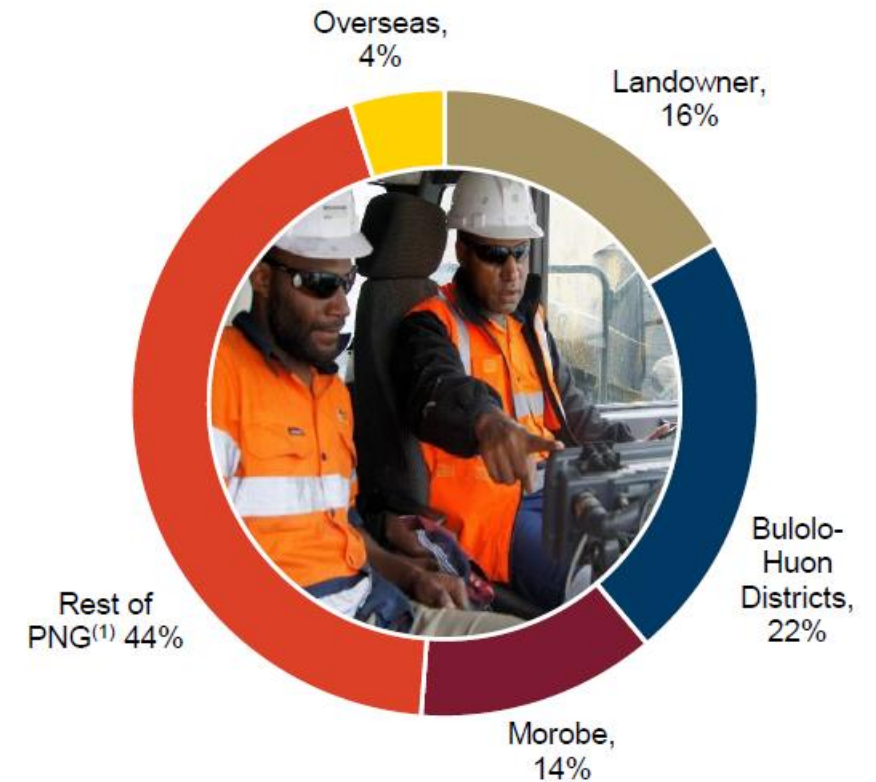
◆ Direct benefit streams (average annualized)

- Total employee salaries	PGK 85M
- Salary and wage tax	PGK 38M
- Royalties and production levy	PGK15M
- Local procurement (excluding PPL power)	PGK 410M
- Power purchased from PPL (PNG)	PGK 38M
- Total annual average benefit	PGK 586M

◆ Employment

- Total direct employees	1250 – 1300
- Total contractors	450 – 600
- 73% Workforce based in Morobe Province	
- >95% PNG resourced	

Hidden Valley Mine on average converts **US\$200m of foreign exchange per year into Kina to the benefit of the national economy**



⁽¹⁾ Our data for this group indicate that 48% of these employees actually live in the Morobe province, (although have their origins from outside the province)



IN CONCLUSION



HARMONY IN PNG

- ◆ We have a long history in PNG and understand the challenges of operating in a developing country
- ◆ We have a significant portfolio of assets in PNG covering the whole mining value chain, from an operating mine in Hidden Valley, the Wafi Golpu project as well as exciting brownfields and greenfields exploration prospects
- ◆ We have strong balance sheet to progress this portfolio up the value chain
- ◆ We understand that working with stakeholders at local, provincial and national level is fundamental to achieving success in PNG
- ◆ Our South African and PNG track record and experience will enable us to deliver on our PNG growth objectives



CONTACT US

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COMPETENT PERSON STATEMENT

The information in the presentation that relates to Exploration Results was compiled by Mike Humphries. Mr Humphries is a full time employee of Harmony Gold Mining Company Limited. Mr Humphries is a member of the Australian Institute of Geologists and has sufficient experience which is relevant to the styles of mineralisation and types of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the “JORC Code”. Mr Humphries consents to the inclusion in this presentation of the matters based on this information in the form and context in which they appear.

The information in this report that relates to Mineral Resources is based on information compiled by Mr Greg Job. Mr Job is a full time employee of Harmony and a member of the Australasian Institute of Mining and Metallurgy. Mr Job has sufficient experience that is relevant to the styles of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in 2012 Edition of the ‘Australasian Code for Reporting of Exploration Reports, Mineral Resources and Ore Reserves’. Mr Job consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.

The information in this report that relates to Golpu Mineral Resources is based on information compiled by the Competent Person, Mr Paul Dunham, who is a member of The Australasian Institute of Mining and Metallurgy. Mr Paul Dunham, is a full-time employee of Newcrest Mining Limited or its relevant subsidiaries, holds options and/or shares in Newcrest Mining Limited and is entitled to participate in Newcrest’s executive equity long term incentive plan, details of which are included in Newcrest’s 2016 Remuneration Report. Mineral Resource growth is one of the performance measures under that plan. Mr Paul Dunham has sufficient experience which is relevant to the styles of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the JORC Code 2012. Mr Dunham consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.

The information in this report that relates to Golpu Ore Reserves is based on information compiled by the Competent Person, Mr Pasqualino Manca, who is a member of The Australasian Institute of Mining and Metallurgy. Mr Pasqualino Manca, is a full-time employee of Newcrest Mining Limited or its relevant subsidiaries, holds options and/or shares in Newcrest Mining Limited and is entitled to participate in Newcrest’s executive equity long term incentive plan, details of which are included in Newcrest’s 2016 Remuneration Report. Ore Reserve growth is one of the performance measures under that plan. Mr Pasqualino Manca has sufficient experience which is relevant to the styles of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the JORC Code 2012. Mr Manca consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.