

Equivalent Oz Chart - Reserves HARMONY Total Harmony SE Asia Reserves 2009 (Equity) Slight drop in Reserves due to mine design optimisation at Hidden Valley 4.80 5.0 4.0 Hidden Valley Expansion studies 3.0 (Moz) 2.0 underway – will increase Reserve if 2.14 2.10 successful 0.69 1.0 1.53 1.23 0.0 2008 2009 2009 Eq Ozs ■ Hidden Valley ■ Golpu ■ Hamata 2008 Reserve factored for current equity www.harmony.co.za



International Portfolio

Mt Magnet Project Study Update August 2009

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Scoping Study

HISTORY

- Harmony purchased Mt Magnet Operations (MMG) in 2002 through the acquisition of Hill 50 Gold NL
- Located approx 600 km north of Perth, in town of Mt Magnet, WA
- On Care and Maintenance since Dec 07

RECENT WORK

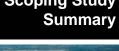
Current work looking at open pit conceptual studies over the Galaxy, Boomer areas, consolidating some

historic smaller pits into a larger pit complex

Initial Results (excl peripheral ore sources); 130,000 – 150 000 oz pa Ave. Production

Total Cost US\$651/oz Cash cost US\$ 550 / oz

Mine Life 5 years A\$42M + A\$4M Capital Study Potential first gold September 2010







Scoping Study Concept

- Consolidation of resources into large "super pit" type concept
- Larger open pit bulk mining will reduce costs over historic production costs
- Proposed 10 month study
- Initial study work will target resource and historic underground stope delineation
- Focus on improving cost per oz
- 5 month start up and pre strip
- First gold potential September 2010
- Higher grade areas can be targeted for quick payback (~18 months)



Scoping Study Resource Area

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Scoping Study background

- Mt Magnet is an established producer with historic production of 5.3M ounces
- Site on full care and maintenance and requires short start up time. Care and maintenance cost approx A\$ 6 mil pa
- All infrastructure in place or available
- "Simple" open pit operation proposed
- Large Resource base for future expansion
- Areas to be targeted in study to improve ounce profile and reduce costs
 - · Tails retreatment
 - · Low Grade Stockpiles
 - Additional smaller open pits
 - Underground potential below Galaxy pit



Checker Processing Plant - on care and maintenance

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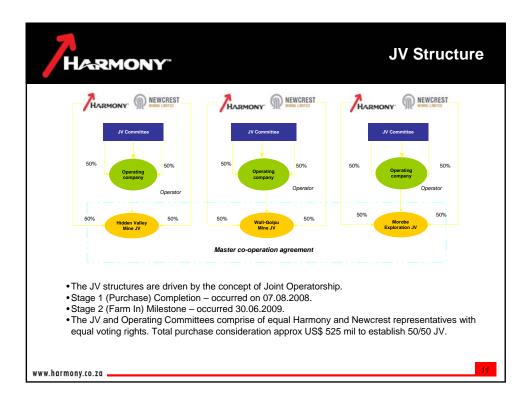
Morobe Mining Joint Ventures (JV's with Newcrest earning 50%)

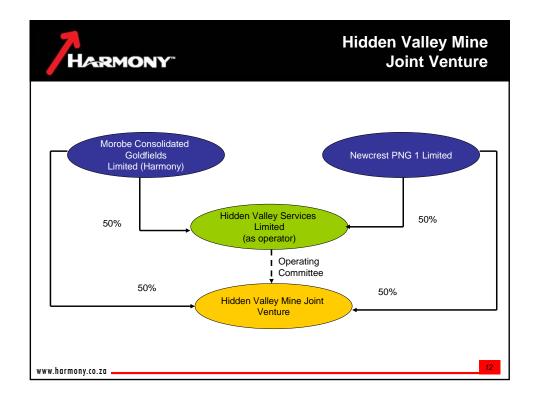
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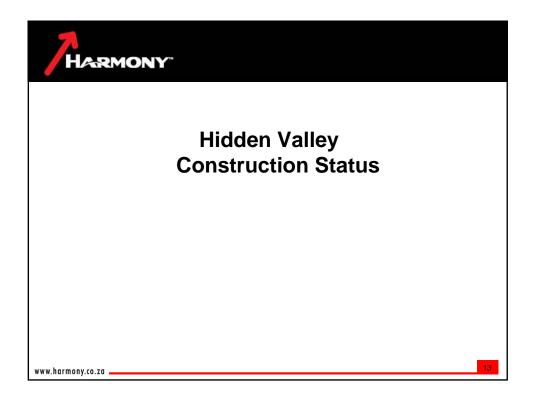


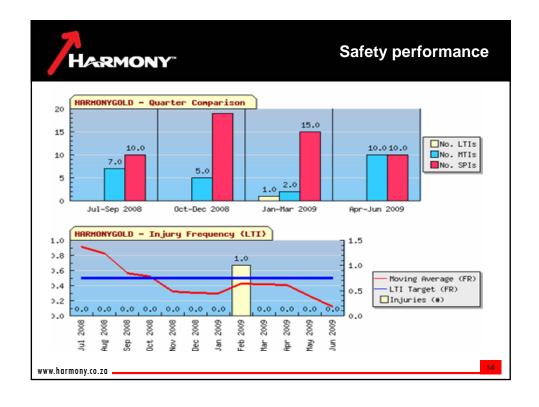
JV Management

- Agreement based on unincorporated JV structure:
 - · Each party directly owns assets and receives product from JV
 - · Each party responsible for selling or marketing its own product
 - Operating company jointly owned by Newcrest and Harmony with controlling Operating Committee for administrative function of the new venture, with 50/50 representation on Operating Committee
 - Operating Committee reports to the Joint Venture Committee, also with 50/50 representation on Joint Venture Committee
 - General Manager reports to Operating Committee











Construction & Commissioning

- Commissioning
 - Power station, grinding, gravity gold recovery sections commissioned late June - MMD and stackout Conveyor early July
 - · CIL circuit commissioning middle of August
 - Overland Conveyor (OLC) commissioning date expected to be October
- Construction to complete
 - OLC civil works, gantry erection, belt installation, crushing stations
 - Non-critical infrastructure to be built in Q1/Q2 warehouse, fixed plant workshop, security buildings, offices

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Overland conveyor

- 300 mm diameter Pipe Conveyor
- Length = 5,364 m
- RL drop over 530 m, before rising to mill
- Design Capacity = 800 tph / Nominal Operating rate = 750 tph.
- SAG Mill at 130% of design, solely fed from HVK 750 tph.
- Design Earthquake loading = 0.26g
 (1 in 475 year annual probability level)









Overland Conveyor

- Surge bin, sacrificial belt conveyor and large rock detector in place to ensure that maximum rock lump size does not exceed design capacity
- Surface water run off, micro piling to enhance stability, slope depressurisation to manage geotechnical risks



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HV Expansion Options

August 2009



HV expansion study

- Pre-Concept Level study completed
- Objective was to identify and evaluate potential business cases for production of >400 000 ozs Au from Hidden Valley
- Stage phased approach considered:
 - 1. De-bottlenecking to 4.7 Mtpa
 - 2. Expansion to 5.5 Mtpa
 - 3. Step Change 6 to 8.8 Mtpa (potential to yield 400k to 500k ozs)

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Hidden Valley Resource Model

Hidden Valley lode

Gold Grades

Mageria 2-20gt

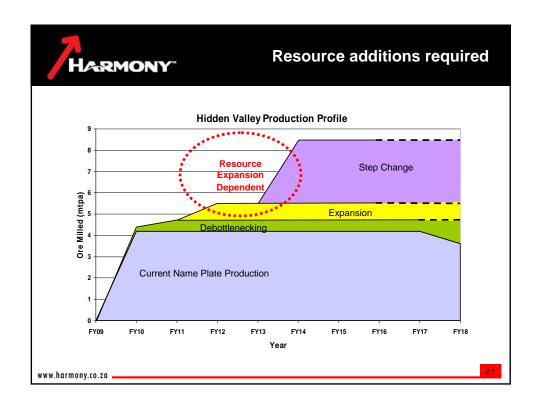
Red 1.0-2.0gt

Yellow 0.8-1.0gt

Green 0.5-0.8gt

Significant Resource below pit.

Reserve currently constrained to 42Mt Tailings Dam



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De-bottlenecking

- Current nameplate 4.2 Mtpa
- De-bottlenecking target 4.7 Mtpa (+12%)
- Current resource development drilling program (strike and dip extensions) to support expansion
- Plant target constraints include: primary ore handling, gravity circuit,
 CIL inter-tank screens
- Mining constraint analysis
- Incremental TSF expansion options



Expansion

- Expansion target 5.5 Mtpa
- Timeframe 12 to 24 months
- Current resource development program to support expansion and possibly step change (the orebody will ultimately dictate)
- Expansion of Hamata process plant
- Revised mine plan based on pit expansion and increased mining rate
- Additional TSF and waste dump capacity

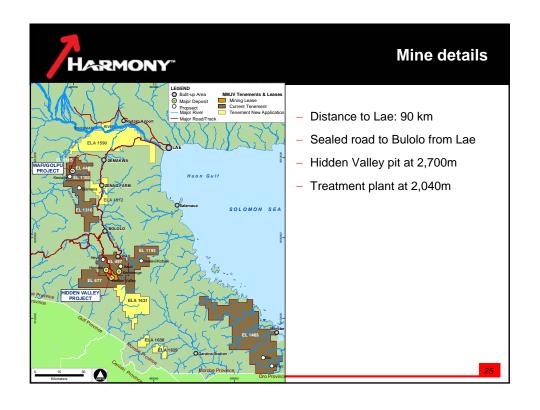
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Hidden Valley Operational overview

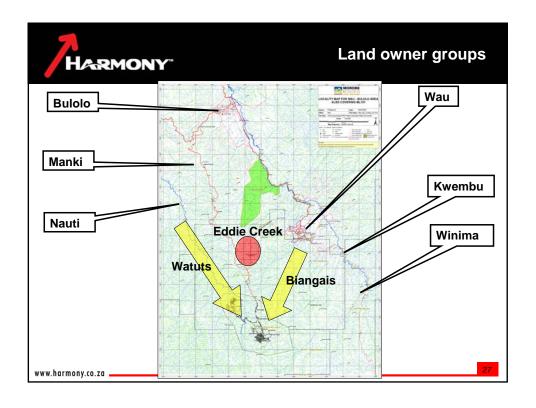
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Workforce

- At start-up most senior roles will be filled by expatriates, objective is to transition majority of senior roles to national employees
- Workforce of 800 employees plus contractors
- >50% of permanent employees are Landowners (Tier 1) or non-landowner local communities (Tier 2)
- Operational readiness programs and training in place
- Royalty distribution mechanism for landowners being established



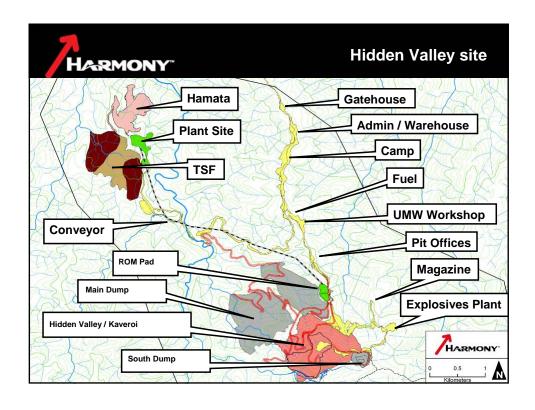


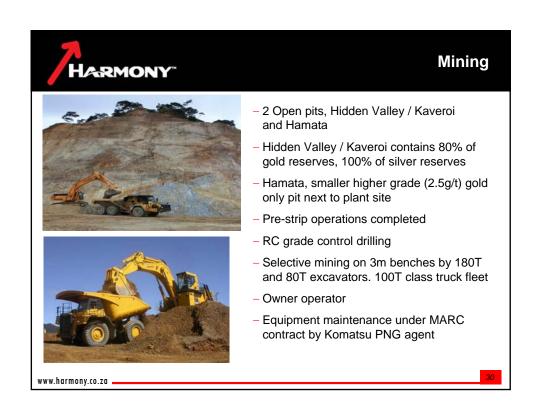
Community relations

- Memorandum of Agreement Compliance and review meetings
- Continuous Landowner engagement
- Continuous village liaison
- Community support
- Social monitoring



- Employment opportunities
- Training and development
- Supply and Procurement policy
- Business development through NKW landowner company
- Supportive government







Stockpile

- Stockpile of 1.3 mil tonnes @ 1.8 g/t gold available at start of continuous operation
- Mining focused on Hamata open pit until overland conveyor commissioned



Mill Feed Stockpile

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Processing Plant



- Ore is crushed at the pit crest (Hidden Valley and Hamata pits) then conveyed to the Plant
- Process flow sheet provides flexibility to treat full range of ore types found at Hidden Valley
- Tailings will be disposed in a fully engineered storage facility constructed in accordance with international dam safety code requirements

- Single 11m diameter SAG mill
- Option of CIL or floatation process options with gravity circuit for enhanced Au recovery
- Au and Ag separated in onsite refining processes to optimise product transport security and cost.



Piping and E&I works on CIL Tank Tops

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Key operational metrics

- Estimated attributable gold production of 105 000 – 120 000 oz in 2010 financial year
- Attributable capital for project completion, development and sustaining capital of A\$ 60 mil expected during current financial year
- LOM cash costs US\$ 350 / oz net of silver credits



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Refining

- AGR Matthey Ltd (AGR):
 - Partnership between WA Mint (The Perth Mint) and Australian Gold Alliance Pty Ltd and Johnson Matthey (Aust) Ltd
 - · Located in Perth Western Australia
 - Product risk transfers to AGR at the Gold Room at the Plant
 - · Gold transported by air
 - Silver shipped



Financial parameters

Royalty payable to PNG government 2% of Net smelter return

30% corporate tax rate

Oil price assumptions (per barrel)

• 09/10 US\$ 68 (Kina1.97/I, current Kina 1.78/I)

10/11 US\$ 8011/12 US\$ 90

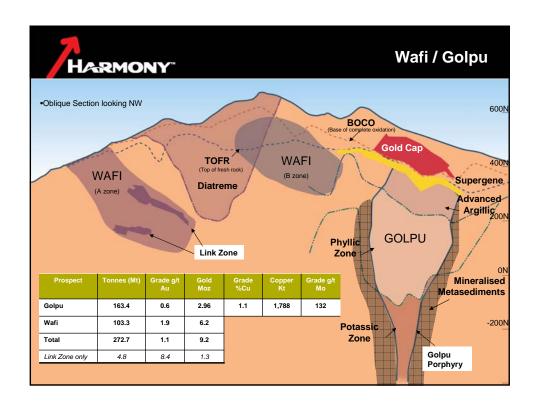
 Diesel vs Hydro price, impact A\$13mil – A\$ 15 mil per annum, hydropower expected to reach site towards end of 2010

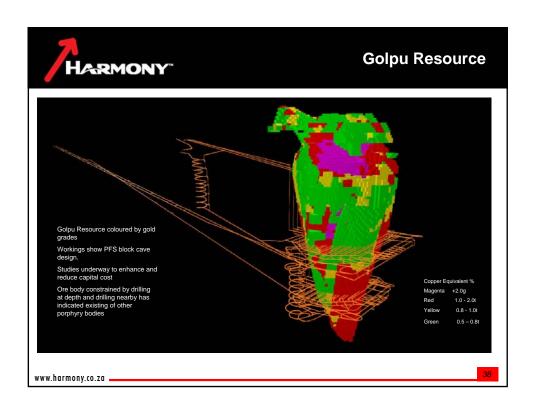
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Golpu Studies

August 2009







Golpu studies

- Objective a project with lower capital cost and better NPV than the previous concept study
- "Simplify concepts, reduce capex and improve NPV"
- The concept includes:
 - A single lift Golpu block cave (optimum extraction level at -350 m RL)
 - Cost-efficient design and location for mine access, process plant, TSF and infrastructure
 - · Synergistic open pit gold options for early development and cashflow
- The conceptual mine design is a significant departure from Golpu PFS scenario and viability will be tested against PFS study results

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Golpu studies, cont'd

- Key assumption is that Golpu resource is constrained by a lack of deep drilling and that the lower resource cross-sectional area is larger than currently modelled
- Better definition of mineralisation between 100 and -500 m RL is required to confirm lower elevation footprint area
- Potential benefits if mineralised zone extends to similar footprint as upper sections of deposit
- Conceptual study is expected to be completed in the September quarter
- Work program to be formulated based on study results

