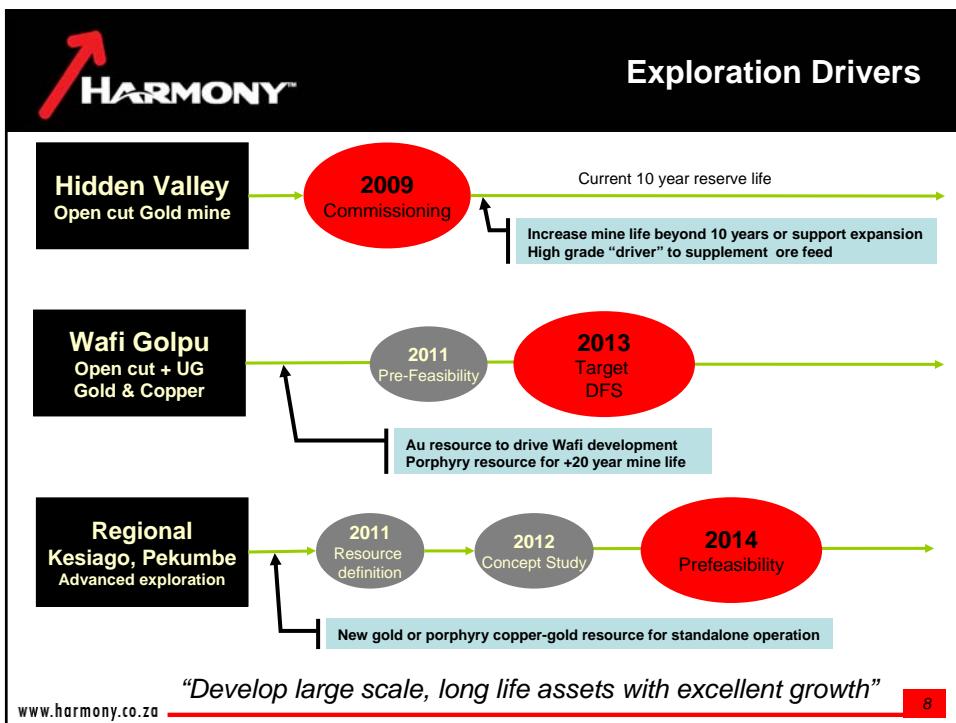
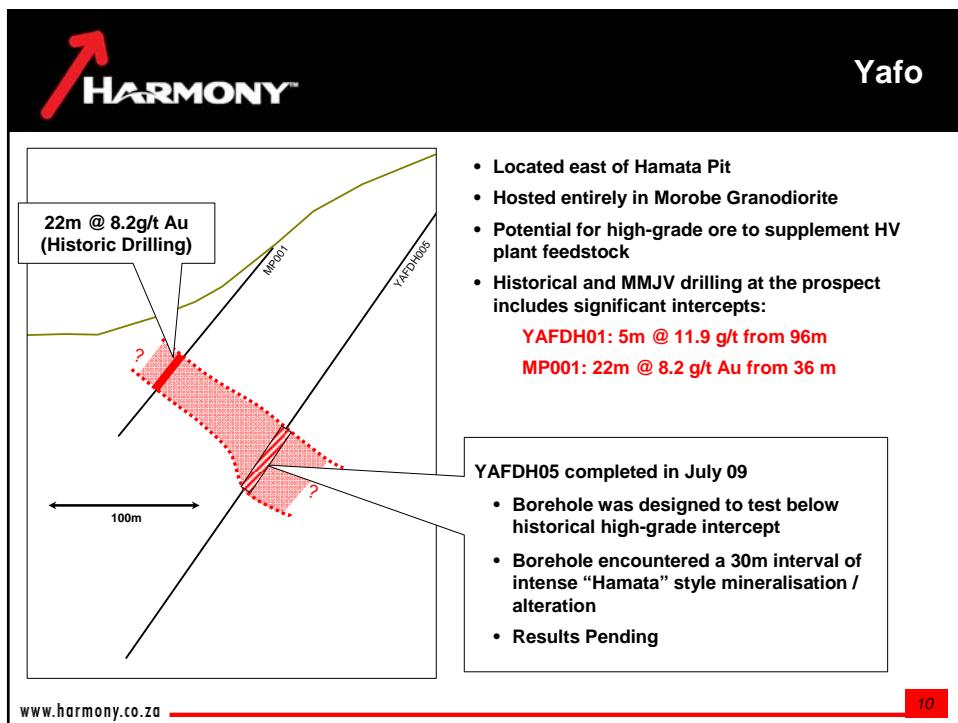
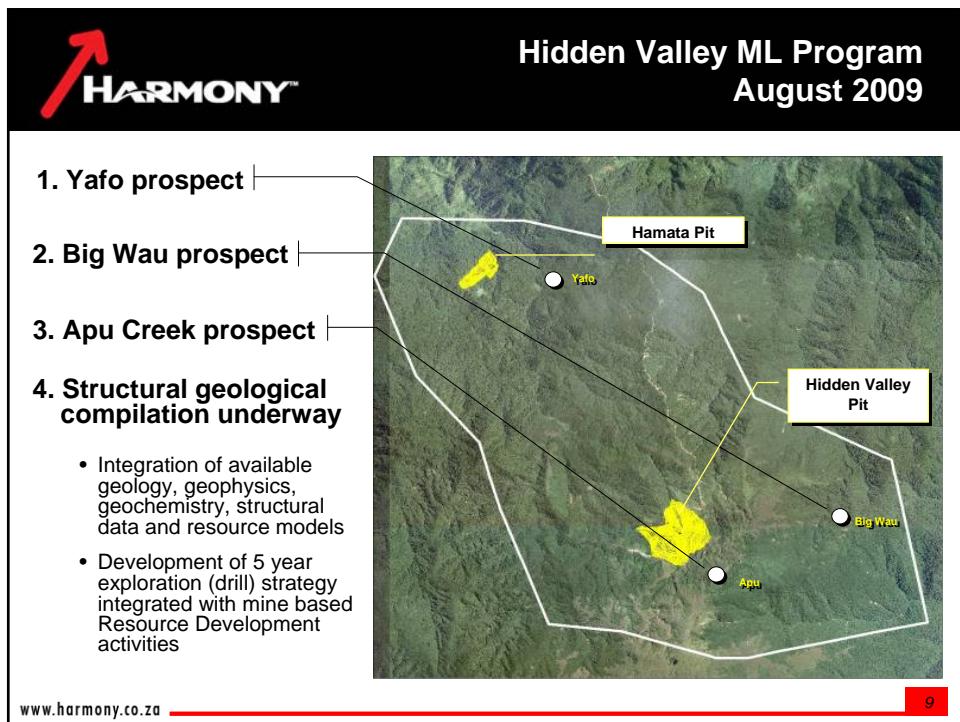


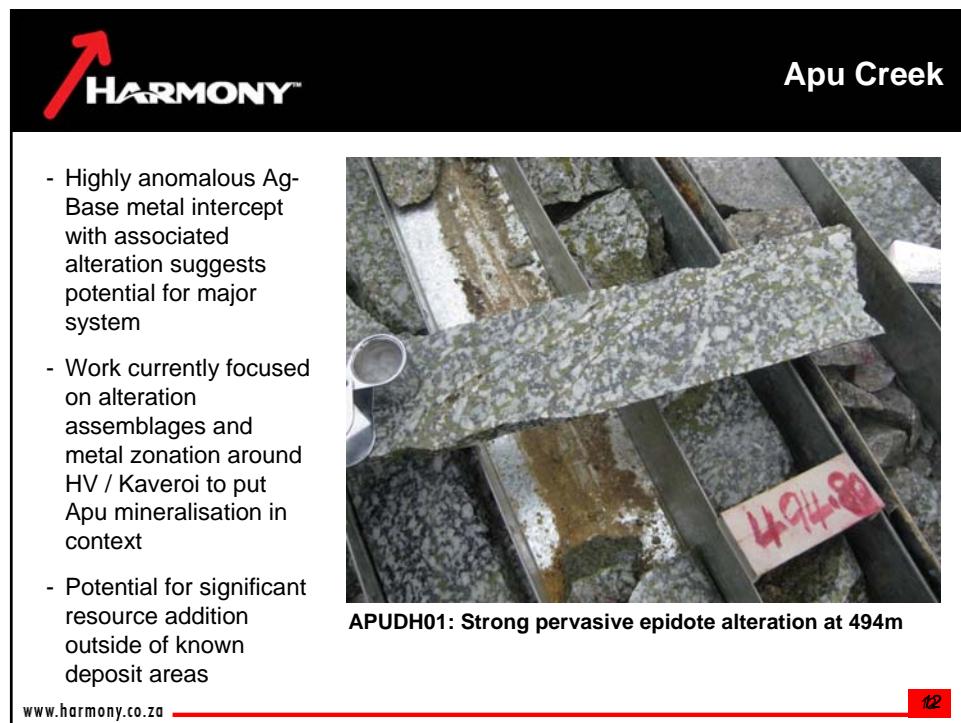
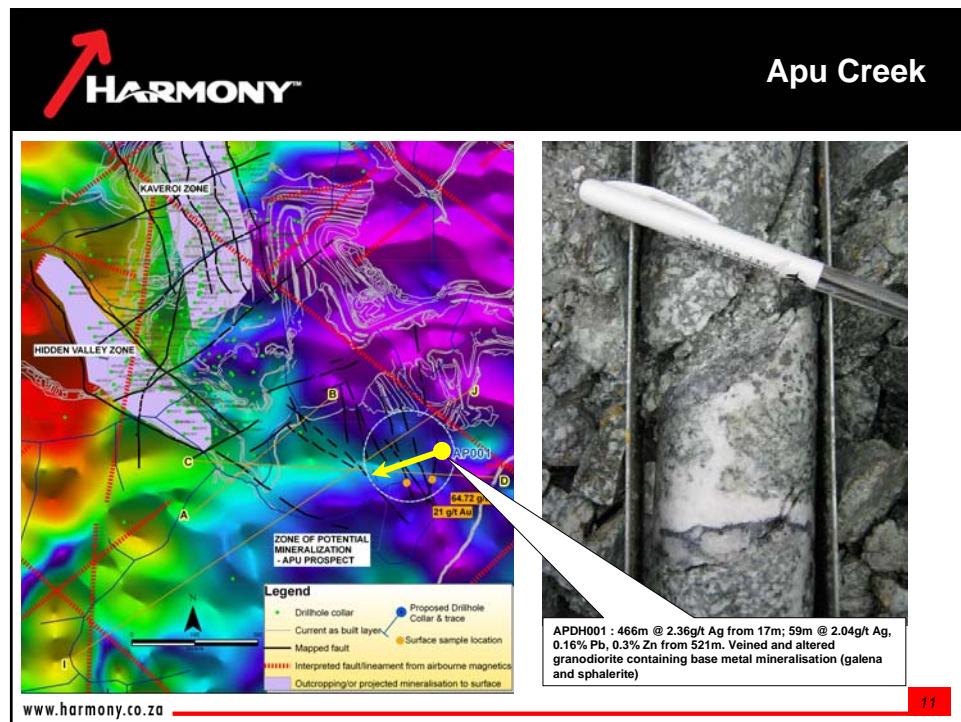


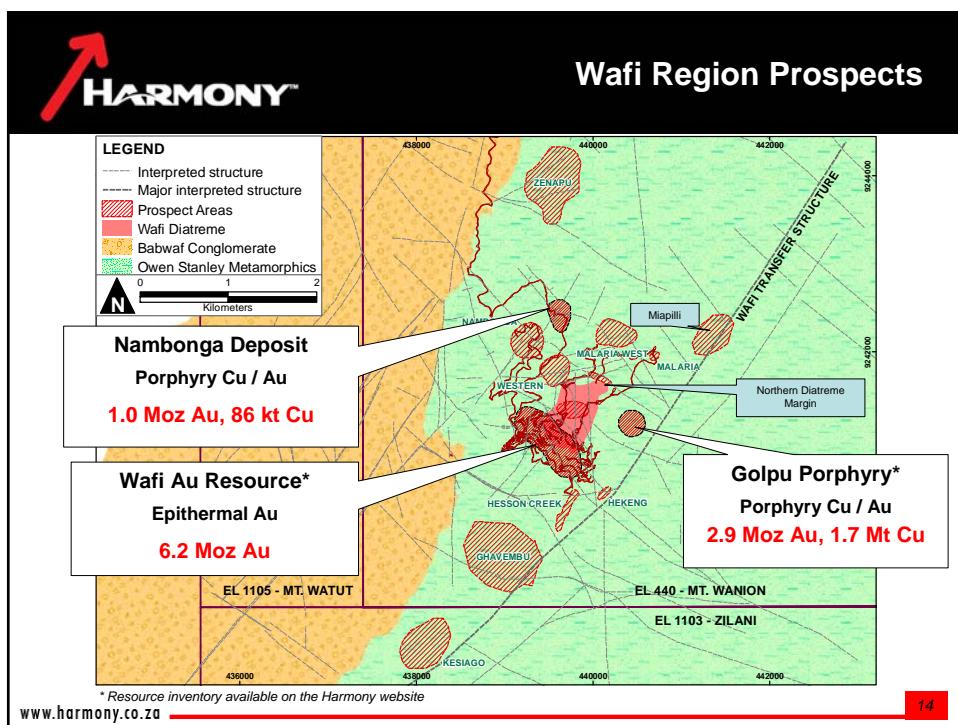
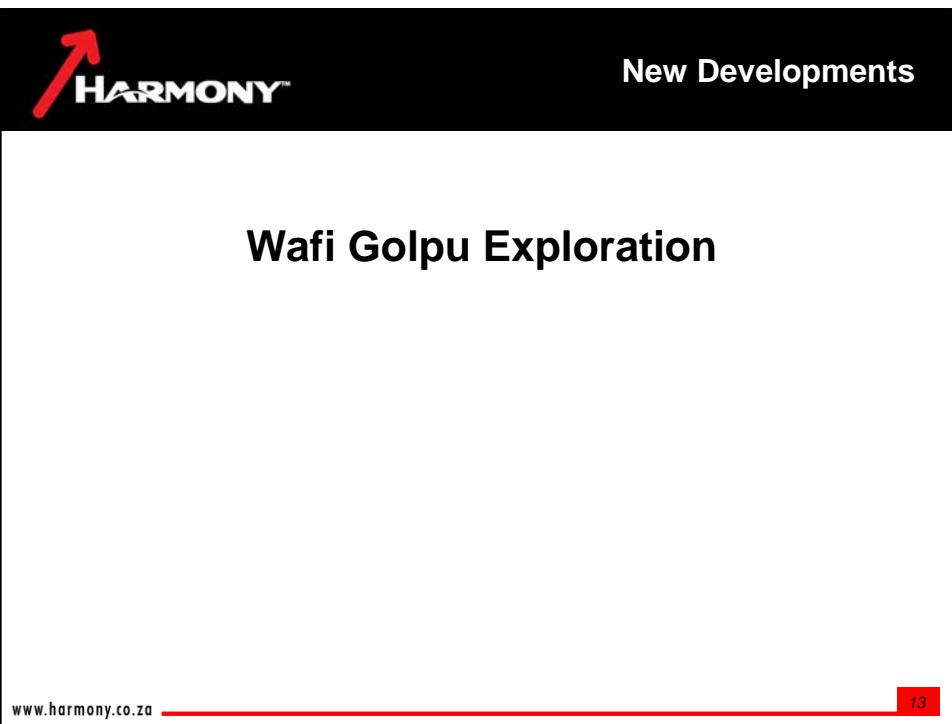
## FY09 – PNG Exploration Highlights

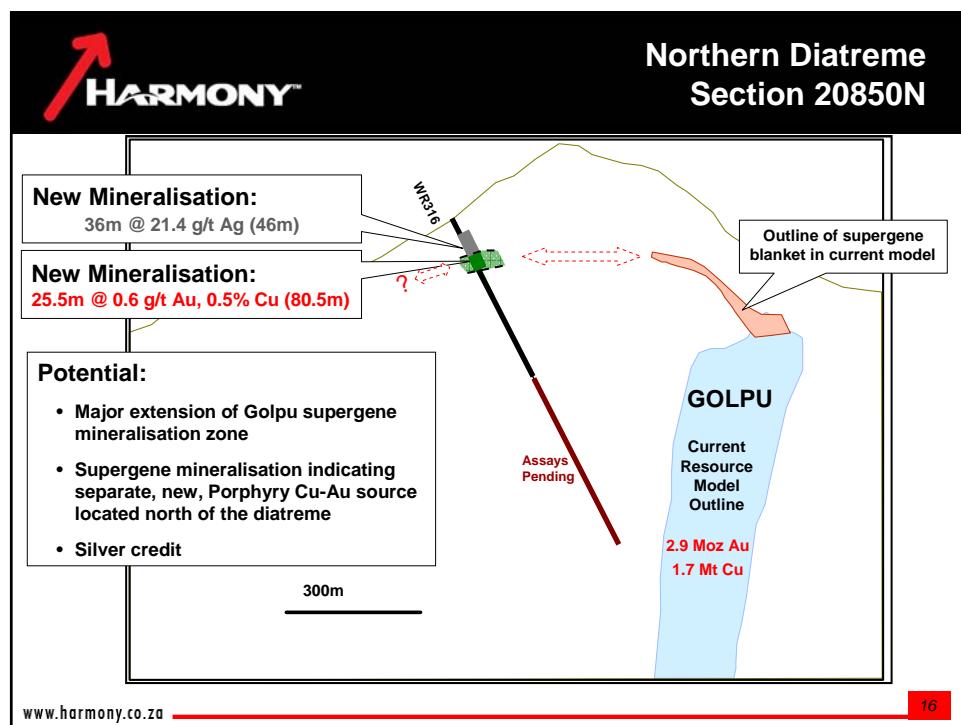
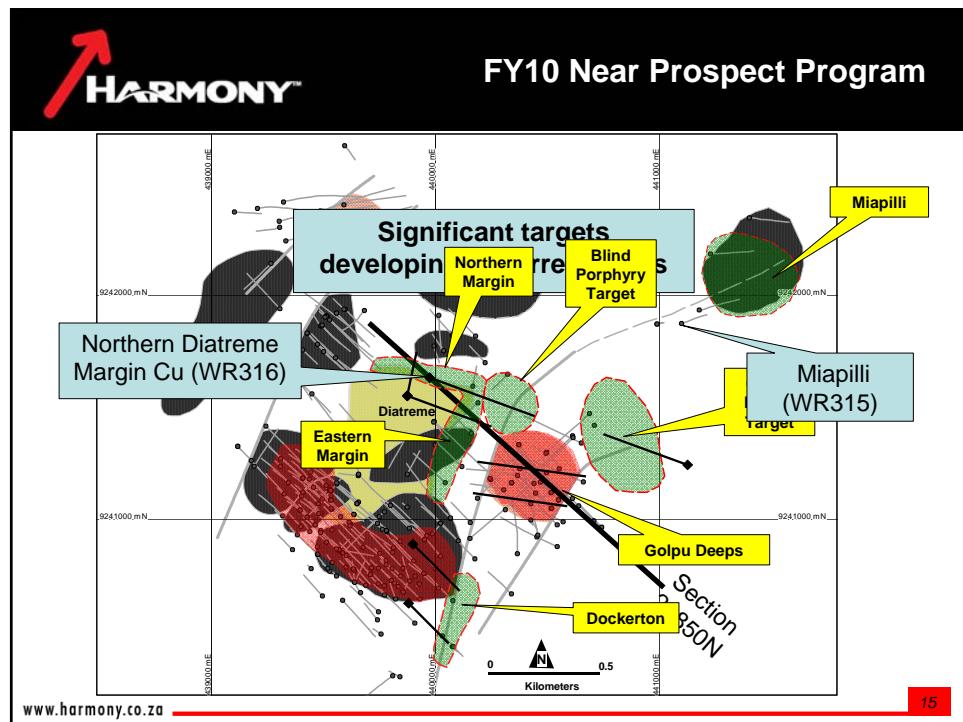
- Resource Addition:
  - Nambonga North 1.0 Moz Au, 86 kt Cu
  - (1.5 Moz Au equivalent using US\$ 750 per oz and US\$ 1.90 per pound copper)
  - FY09 Discovery Cost per ounce US\$ 14
- Significant Results:
  - HVML prospects including Hidden Valley South, Yafo, and Apu Creek
  - Significant porphyry potential developing at Miapilli and Northern Diatreme area, northeast of Golpu
  - Major porphyry and epithermal potential identified along the Wafi Transfer
  - Grassroots anomalies progressed at Morobe Coast, Garaina
- Drill Production:
  - Actual production of 39,385m for FY09 vs 11,269m for FY08
  - Increased prospect turnover
- Safety:
  - 1 LTI
  - Improved reporting and systems awareness











 **Miapilli**



- 1.5 km northeast from Golpu
- Along strike on the Wafi Transfer structure
- Potential for new porphyry Cu-Au mineralisation
- Host rocks: Owen Stanley Metamorphics intruded by andesite porphyry
- Results:  
**WR315: 52m @ 1 g/t Au, 0.2% Cu (409m)**
- Stockwork Au-Cu vein mineralisation developed in medisediments, adjacent porphyry intrusive
- Follow-up drilling planned

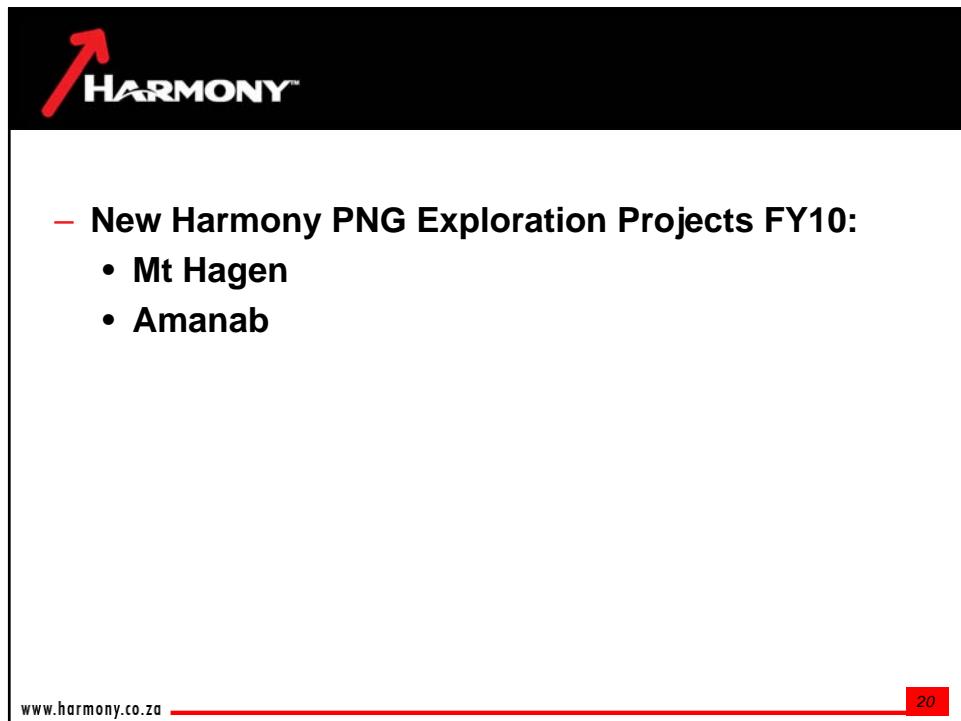
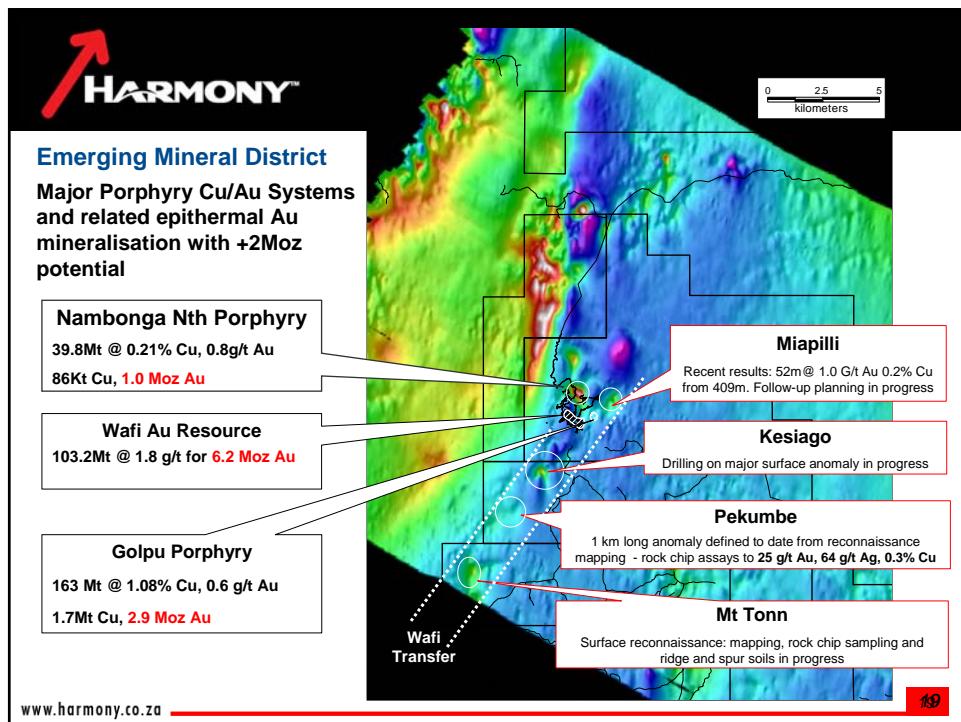
**WR315 @ 433.4m:** Veined and mineralised metasediments  
Assays 1.9 g.t Au, 0.44% Cu

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 **New Developments**

## Regional Exploration

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## Strategic fit

- Development of a pipeline of quality projects to deliver new economic resources beyond 2013
- Expansion of exploration activities outside of MMJV
  - Lever off PNG operating advantage

### Organic Growth Opportunities in PNG

#### 1 Mt Hagen Project

- Harmony management control, ownership and option to purchase
- Greenfields exploration project with significant potential
- Excellent prospectivity with outcropping gossan

#### 2 Amanab Project

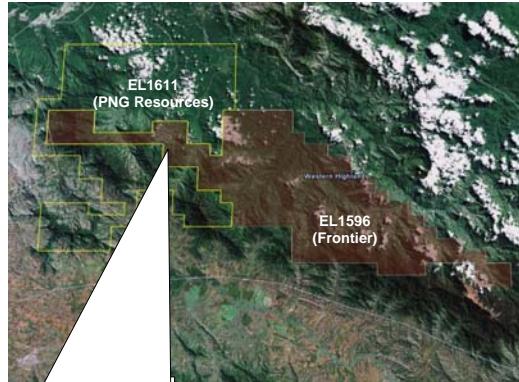
- Low cost greenfields area
- 100% Harmony owned.
- Underexplored highly prospective belt



## Mt Hagen

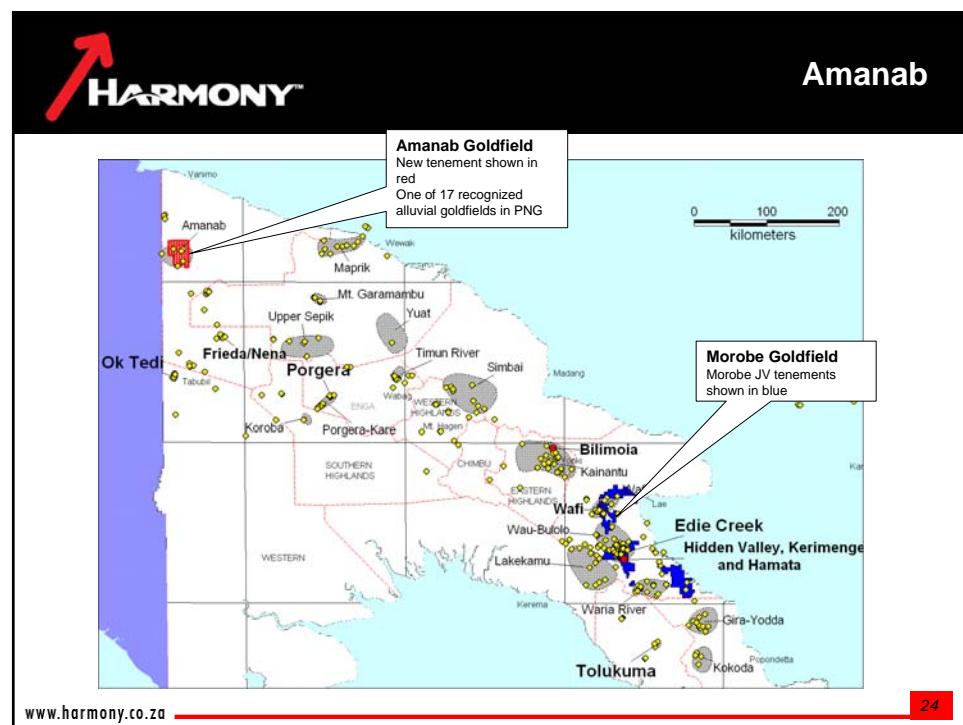
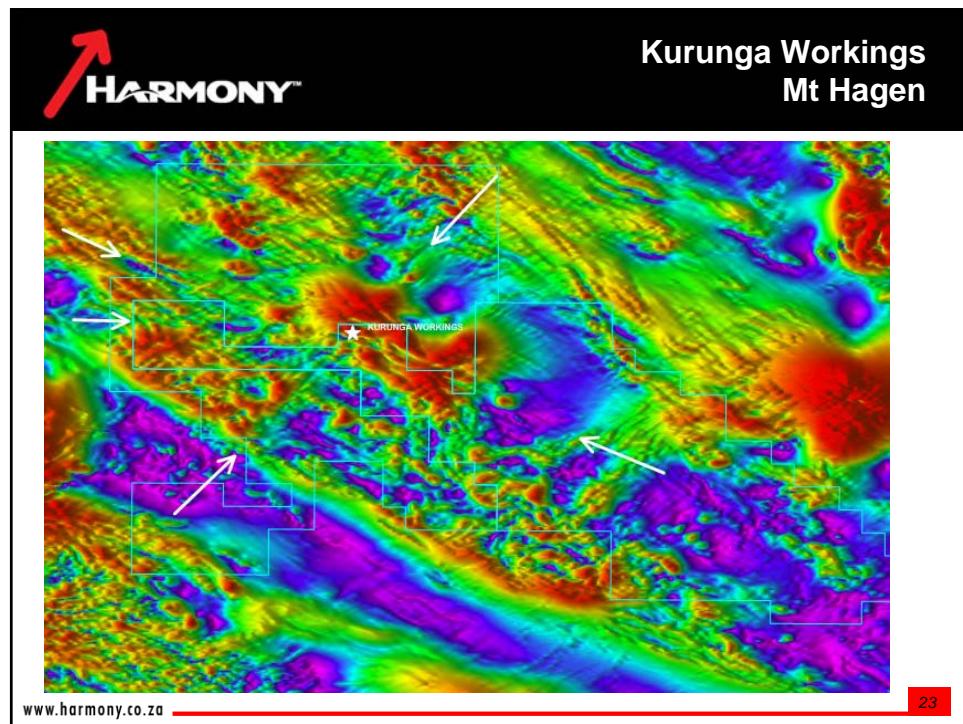
### EL1611 & EL 1596 (Mt Hagen)

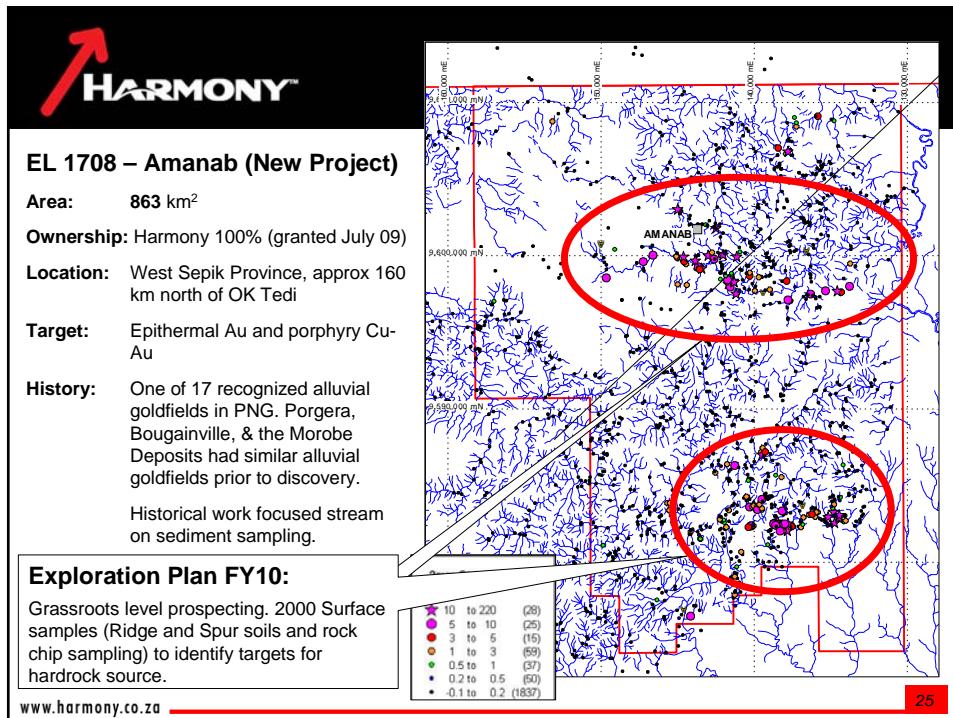
**Area:** 1100 km<sup>2</sup>  
**Ownership:** Project comprises 2 tenements:  
EL1611 – Regional Resources  
EL1596 – Frontier Resources  
**Location:** Western Highlands Province  
**Target:** Porphyry Cu-Au  
Cu-Au Skarn  
Epithermal Au mineralisation  
**Tenure:** EL1611 option to purchase  
(100%)  
EL1596 outright purchase  
(100%)



#### Exploration Plan FY10:

- Grassroots level prospecting (1800 surface samples)
- Geophysical data processing
- Drill test outcropping skarn mineralisation and coincident magnetic target Kurunga Hill (1600m drilling)





### Consolidated Exploration Budget FY10

Project		Budget (AUD)	Budget (ZAR)	Drilling Physicals (metres)
<b>PNG - Morobe JV</b>	<i>Morobe Exploration</i>	\$9,677,263	62,902,210	7200
	<i>Wafi Exploration</i>	\$7,299,765	47,448,473	7200
	<i>Hidden Valley Exploration</i>	\$5,831,333	37,903,665	10800
	<i>Hidden Valley Res Dev</i>	\$6,874,545	44,684,543	21600
	<i>Subtotal</i>	<b>\$29,682,906</b>	<b>192,938,889</b>	
	<i>Harmony Contribution (50%)</i>	<b>\$14,841,453</b>	<b>96,469,445</b>	
<b>PNG - Other Areas</b>	<i>Other Project</i>	\$1,659,680	10,787,920	1600
	<i>Amanab</i>	\$1,060,530	6,893,445	
	<i>Subtotal</i>	<b>\$2,720,210</b>	<b>17,681,365</b>	
<b>Mt Magnet Gold</b>	<i>Minimum Holding Costs</i>	\$2,215,000	14,397,500	
	<i>Subtotal</i>	<b>\$2,215,000</b>	<b>14,397,500</b>	
<b>Exploration Total</b>		<b>\$19,776,663</b>	<b>128,548,310</b>	

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Thank you



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*Wafi camp from A zone*

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