

# 2016 Annual General Meeting

Managing Director's Presentation  
**Peter Harold**

24 November 2016

[www.panoramicresources.com](http://www.panoramicresources.com)

ASX: PAN

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# Disclaimer

## No New Information or Data

This presentation contains references to exploration results and Resource estimates, all of which have been cross referenced to previous market announcements made by the Company. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

## Forward Looking Statements

This presentation may contain certain “forward-looking statements” which may not have been based solely on historical facts, but rather may be based on the Company’s current expectations about future events and results. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis. However, forward looking statements are subject to risks, uncertainties, assumptions and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward-looking statements. Such risks include, but are not limited to metals price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks in the Countries and States in which we operate or sell product to, and governmental regulation and judicial outcomes. For a more detailed discussion of such risks and other factors, see the Company’s Annual Reports, as well as the Company’s other filings. The Company does not undertake any obligation to release publicly any revisions to any “forward-looking statement” to reflect events or circumstances after the date of this announcement, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

# Agenda

Company Overview

Nickel

Gold & PGMs

Nickel Price Outlook

FY2017 Goals



# Significant Resources

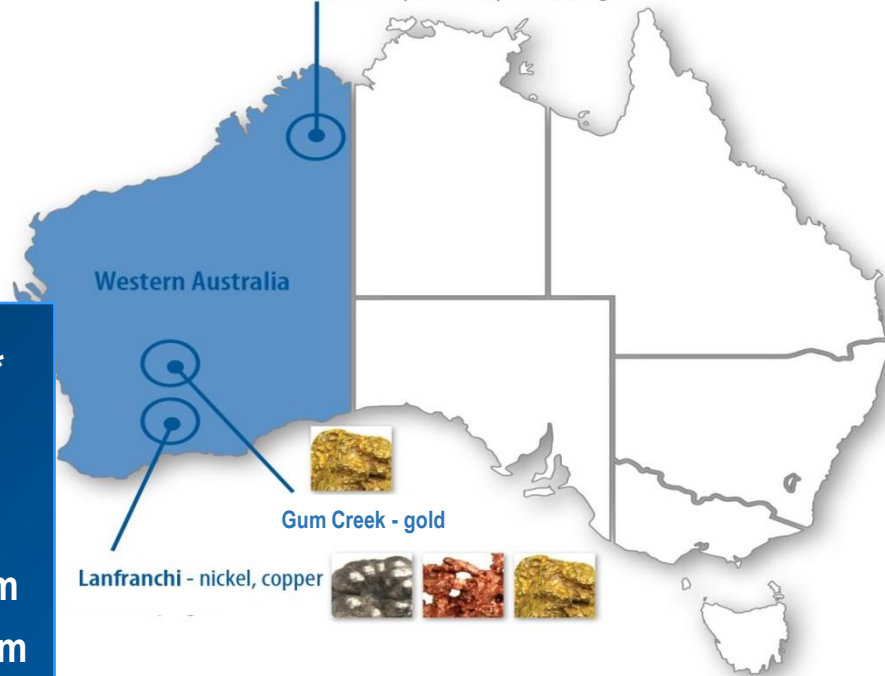
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Thunder Bay North - platinum, palladium, copper, nickel



Savannah - nickel, copper, cobalt  
Copernicus - nickel, copper, cobalt  
Panton - platinum, palladium, gold



**RESOURCES\***  
321,800t Nickel  
1.27Moz Gold  
1.36Moz Platinum  
1.44Moz Palladium  
83,200t Copper  
10,400t Cobalt

Gum Creek - gold

Lanfranchi - nickel, copper



Refer to Appendices "Resources and Reserves" and ASX Announcement "Major Resource Upgrade for Savannah North" dated 24 August 2016"



# Corporate overview

## Capital Structure and Enterprise Value

ASX Ticker	ASX:PAN
Shares on issue	428.6M
Share Price	\$0.325 (23 November 2016)
Market Cap	~\$140M
Cash	~\$20M (30 September 2016)
Bank debt	Nil
Enterprise Value	~\$120M

## Significant Shareholders (at 30 June 2016)

Zeta Resources Limited	24.68%
Colonial First State	6%

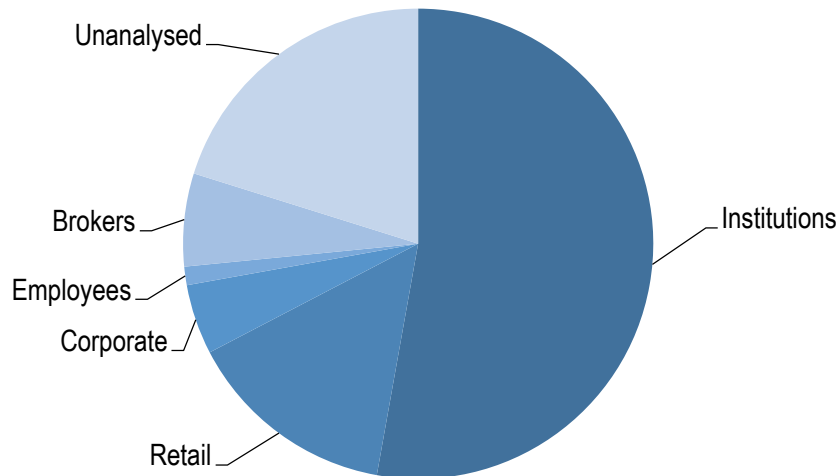
## Volume

30-day average daily volume	342,000
90-day average daily volume	453,000

## Board

Brian Phillips	Non Executive Chairman
Peter Harold	Managing Director
John Rowe	Non Executive Director
Peter Sullivan	Non-Executive Director
Trevor Eton	CFO/Company Secretary

## Shareholder spread +50% institutional



# ... some tough decisions in FY2016

## ■ Lanfranchi

- Cease mining Deacon post seismic event
- Production from lower grade Jury-Metcalfe suspended due to price
- Care and maintenance from November 2015

## ■ Savannah

- Placing mine on care and maintenance due to low nickel price

## ■ Mt Henry

- Selling Mt Henry at a lower point in the US\$ gold price

## ■ Balance Sheet

- Significant asset write-downs

## ■ Personnel

- Approximately 350 employees made redundant across nickel operations and Perth office
- Salary reductions due to changed operating circumstances



## ... some highlights in FY2016

### ■ Safety

- LTIFR reduced to zero during March 2016 quarter

### ■ Savannah

- Record Production of **9,485t Ni, 6,011t Cu and 476t Co**

### ■ Savannah North

- Positive Scoping Study on Savannah North interim Resource indicates **+8 year mine life**
- Major Resource upgrade **10.27Mt at 1.70% Ni for 175,100t contained Ni, 74,400t Cu, 12,700t Co**

### ■ Lanfranchi

- Lower Schmitz maiden high-grade Resource of **131,000t at 5.1% Ni for 6,700t Ni**

### ■ Mt Henry

- Sold to Metals X for 15.4M shares in Metals X and realising \$17.8M in cash

### ■ Gum Creek

- Exciting new exploration targets identified through geophysics
- The Horizon Gold \$15M IPO





# ... fantastic team effort

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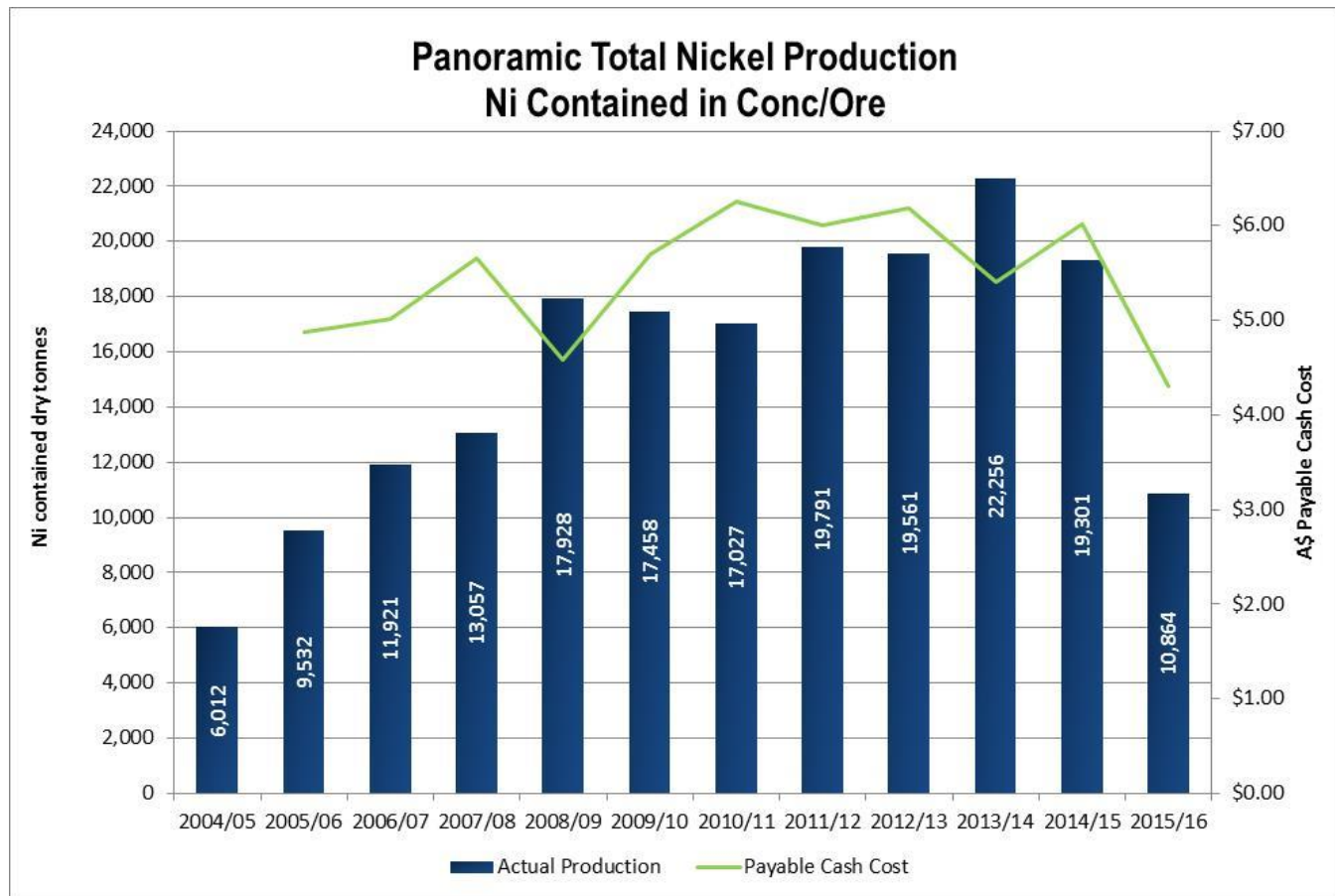




# Strong production history

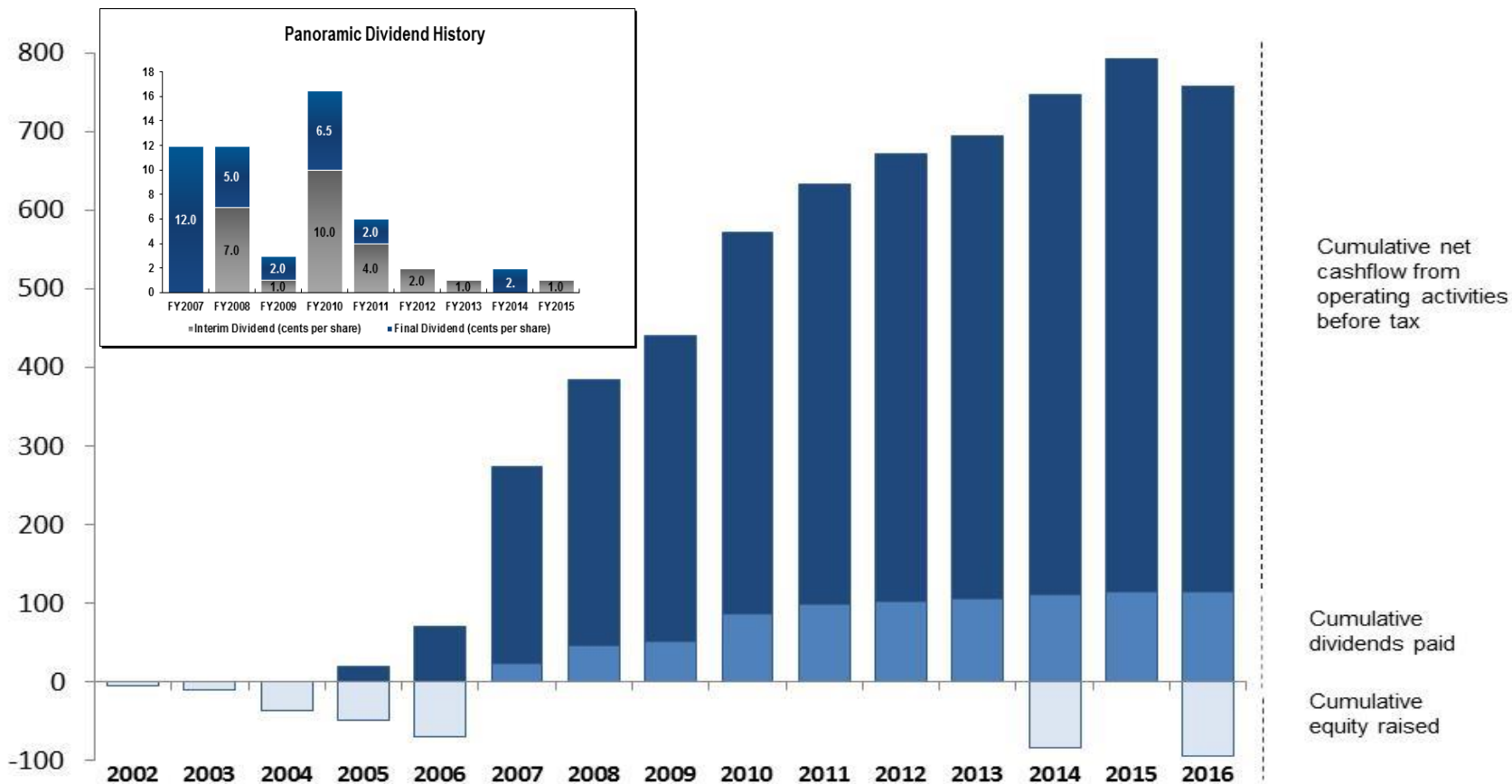
■ Nickel	184,708t
■ Copper	60,590t
■ Cobalt	4,966t

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# Generated cash and paid \$114.3M in dividends

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# Continuous exploration success

## Savannah

- **Savannah Lower Zone 2008**  
3.4Mt @ 1.48% Ni for **50,120t Ni**
- **Below 900 Fault 2014**  
905kt @ 1.65% Ni for **14,900t Ni**
- **Copernicus 2006**  
852kt @ 1.24% Ni for **10,600t Ni**
- **Savannah North 2014**  
10.27Mt @ 1.70% Ni for **175,100t Ni**

## Lanfranchi

- **Deacon 2006**  
2.24Mt @ 2.83% Ni for **63,551t Ni**
- **Jury-Metcalf 2013**  
312kt @ 1.94% Ni for **6,000t Ni**
- **Lower Schmitz 2015**

**TOTAL ~320,000t Ni**



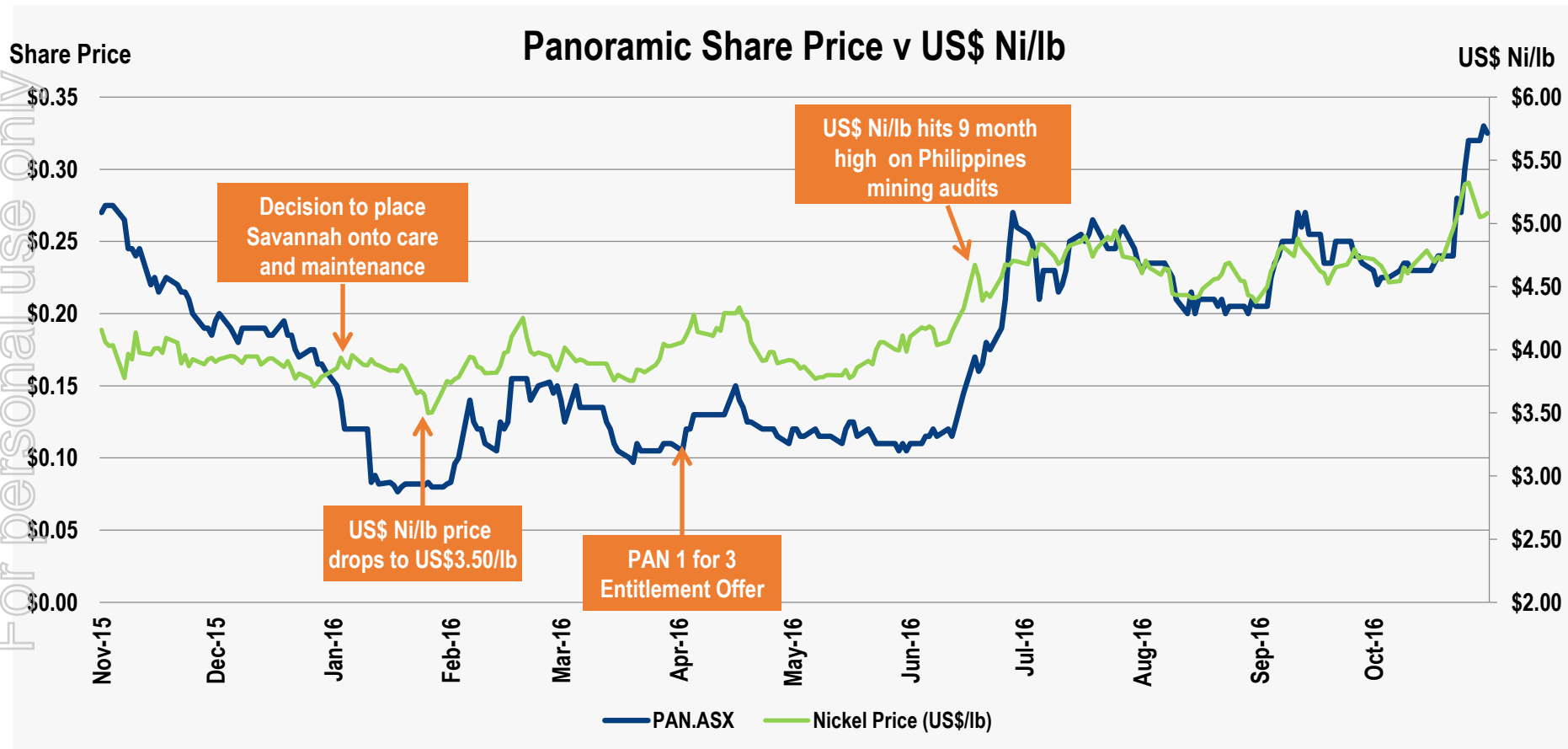
*John Hicks, General Manager Exploration*

## Gum Creek

- **Combined Howards, Heron South, Swan, Swift and Wilsons**  
14.0Mt @ 1.41g/t Au for 638koz Au

**TOTAL ~630,000oz Au**

# Highly leveraged to nickel price



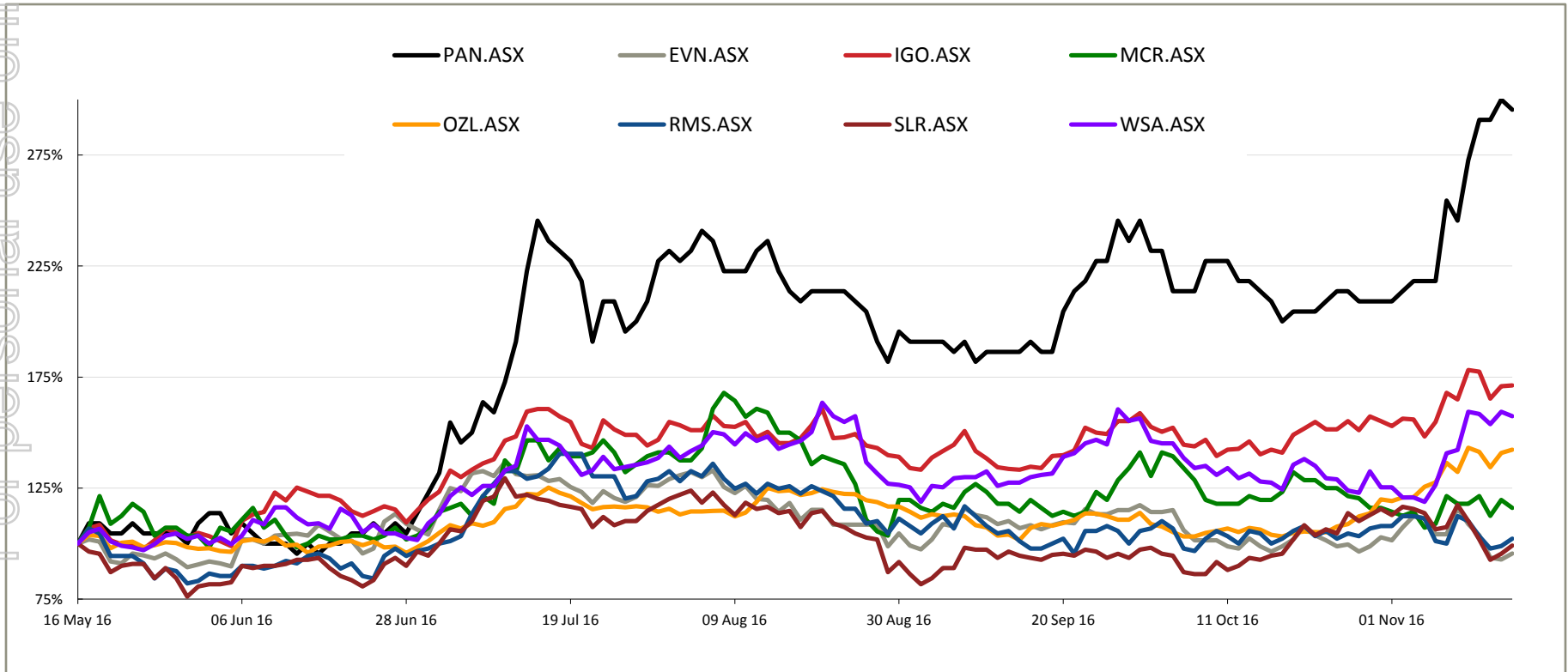
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# Solid performance against our peers in last six months

Price, Volume and Performance (Rebased)

Period: 6 months



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# Nickel – production ready assets



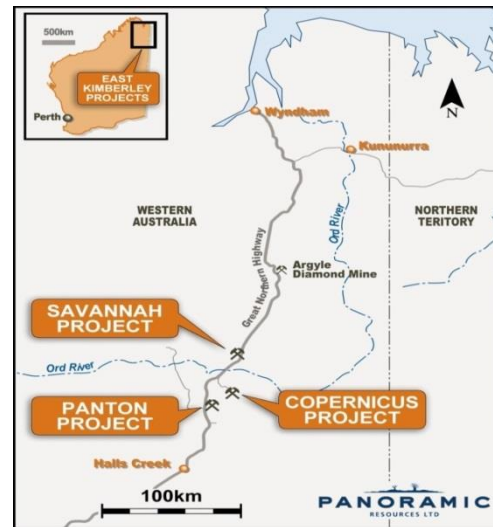
# Savannah - summary

## Combined Resources at Savannah\*

- 226,400t Ni
- 104,700t Cu
- 15,300t Co

## Key Points

- Underground mine, 1Mtpa processing plant, mobile mining fleet & associated infrastructure
- Operated continuously for 12 years
- 8.5Mt ore milled
- 95kt Ni, 53kt Cu, 5kt Co of metal
- C&M from May 2016
- Very quick re-start
- Offtake agreement until early 2020



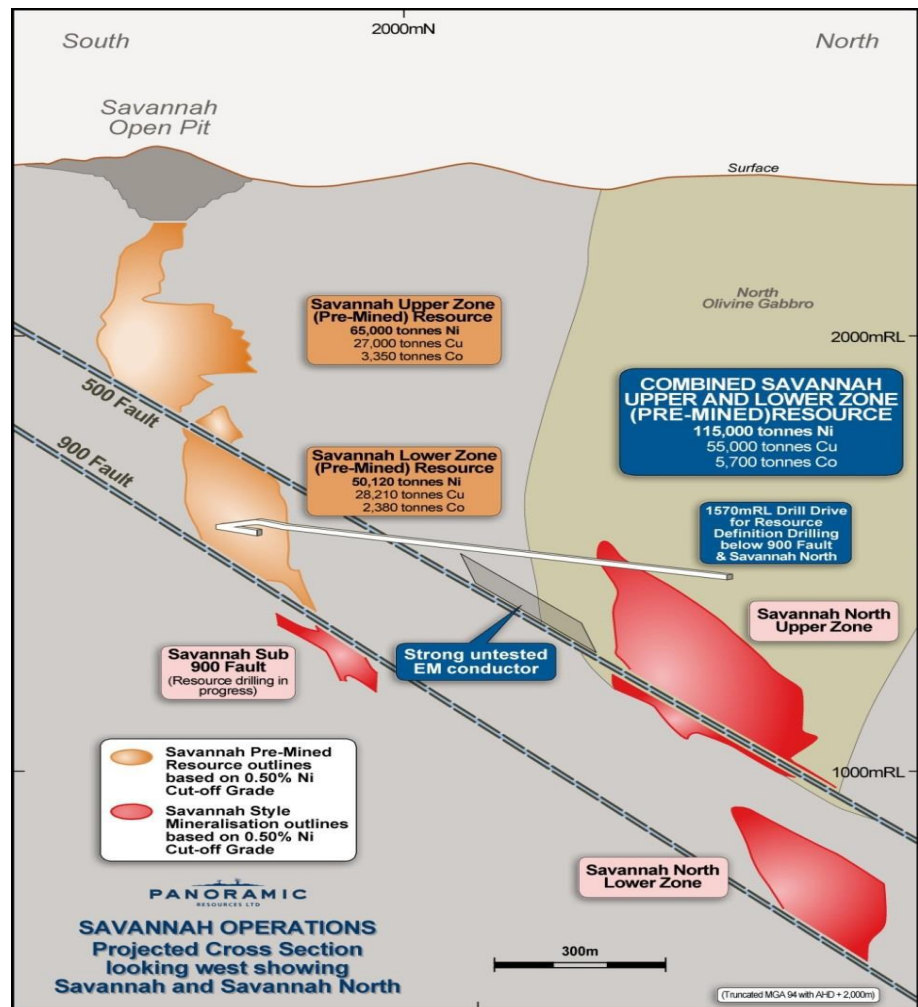
# Savannah North

## Upgraded Resource\*

- 175,100t Ni
- 74,400t Cu
- 12,700t Co

## Key Points

- ~500 metres from existing decline
- January 2016 Scoping Study indicated ~8 year mine life
- Short development timeframe and relatively low CAPEX
- Feasibility Study nearing completion
- Exploration upside





# January 2016 Scoping Study vs Feasibility Study

Operating Metric	Scoping Study (March 2016)	Feasibility Study (due December 2016)
<b>Mineral Resources</b>	<b>6.88Mt @ 1.59%Ni, 0.77% Cu, 0.11% Co containing: 109,600t Ni 52,900t Cu 7,800t Co</b>	<b>10.27Mt @ 1.70%Ni, 0.72% Cu, 0.12% Co containing: 175,100t Ni 74,400t Cu 12,700t Co</b>
<b>Mining Inventory</b>	<b>6.07Mt @ 1.26% Ni, 0.64% Cu, 0.09% Co containing: 76,500t Ni 38,600t Cu 5,300t Co</b>	<b>TBA</b>
<b>Mine Life</b>	7.75 years	<b>TBA</b>
<b>LOM production (metal in concentrate)</b>	<b>66,200t Ni 36,700t Cu 5,000t Co</b>	<b>TBA</b>
<b>Annual production (metal in concentrate)</b>	<b>9,500t Ni 5,300t Cu 700t Co</b>	<b>TBA</b>

The Mineral Resources underpinning the above production target have been prepared by a competent person or persons in accordance with the requirements of the JORC Code – refer to the Company’s ASX announcement of 1 October 2015.

## Cautionary Statements

This presentation includes information extracted from Panoramic Resources Limited ASX announcement dated 27 January 2016 entitled “Savannah North Scoping Study - Positive results demonstrates robust, long life, Ni-Cu-Co Project”. The Scoping Study is based on low-level technical and economic assessments, and is insufficient to support the estimation of Ore Reserves or to provide assurance of an economic development case at this stage, or to provide certainty that the conclusions of the Scoping Study will be realised. There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of Indicated Mineral Resources or that the production target itself will be realised.

# January 2016 Scoping Study - Financials

Financial Metric	Units	US\$5.00/lb	US\$6.00/lb	US\$7.00/lb	US\$8.00/lb
Revenue	A\$M	892	1,032	1,179	1,319
Initial Capital <i>(Pre-production and ramp-up)</i>	A\$M	42	42	42	42
LOM Capital <i>(inclusive of initial capital)</i>	A\$M	137	137	137	137
Operating costs plus royalties	A\$M	700	708	715	722
Pre-tax cashflow	A\$M	54	187	327	460
Pre-tax NPV <i>(11% discount rate)</i>	A\$M	6	80	158	232
IRR	%	14	47	82	118
C1 cash cost (Ni in concentrate basis)	A\$/lb Ni	3.14	3.14	3.14	3.14
	<b>US\$/lb</b>	<b>2.20</b>	<b>2.20</b>	<b>2.20</b>	<b>2.20</b>
Payable Ni cash costs	A\$/lb Ni	5.19	5.26	5.29	5.36
	<b>US\$/lb</b>	<b>3.63</b>	<b>3.68</b>	<b>3.70</b>	<b>3.75</b>

## Basis

- A\$1 = US\$0.70
- Copper US\$2.50/lb
- Cobalt US\$10.00/lb
- Savannah North stand alone
- No Savannah ore

# Savannah – immediate priorities

## Complete Feasibility Study

### Key changes from Scoping Study

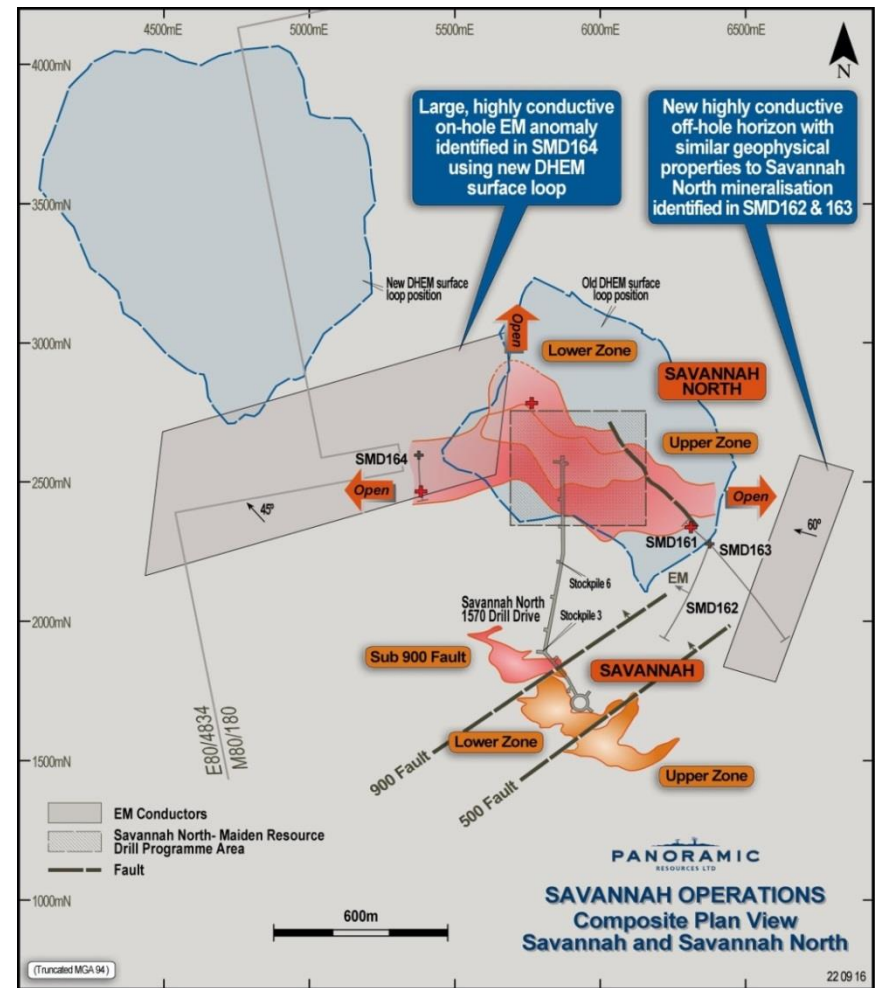
- Combined Savannah/Savannah North
- Optimised mine plan
- 8% nickel bulk concentrate
- CAPEX and OPEX optimisation

### Timing

- Finalising inputs December 2016
- Write-up and release results January 2017

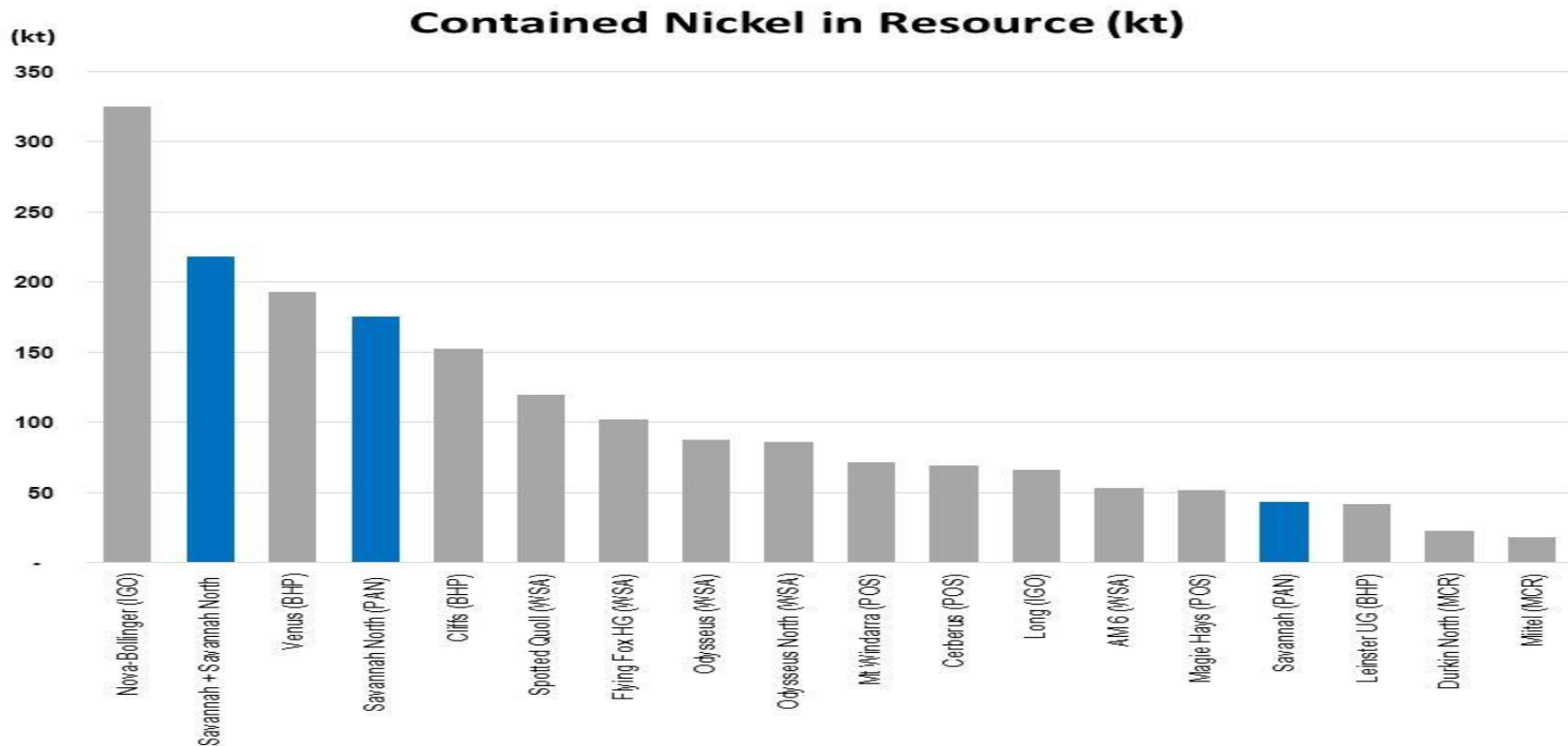
### Continue exploration

- Surface drilling to test EM targets
- Continue testing 2km strike length



# Savannah + Savannah North – a significant Resource

## Australian higher grade nickel sulphide deposits



Source:

IGO - ASX announcement dated 28-10-2015

BHP - 2015 Annual Report

WSA - ASX announcement dated 21-7-2016

POS - ASX announcement dated 7-7-2016

MCR - ASX announcement dated 29-7-2016



# Lanfranchi - summary

## Resource

- 95,500t Ni

## Key Points

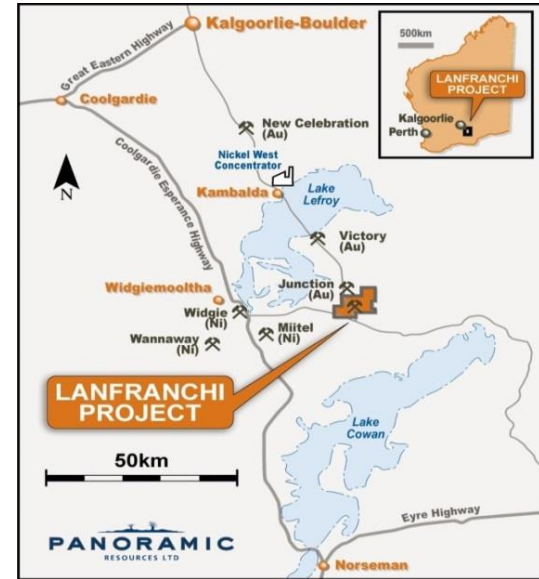
- Underground mine, mobile mining fleet and equipment and associated infrastructure
- Mined continuously for 10 years (2005-2015)
- **3.85Mt ore mined containing 94kt Ni**
- C&M from November 2015
- Quick re-start to mine Jury-Metcalf, Deacon
- Offtake with BHP Nickel West to February 2019

## Lower Schmitz high-grade Resource

- **131kt at 5.1% Ni for 6,700t Ni**
- EM anomaly 100m to the north

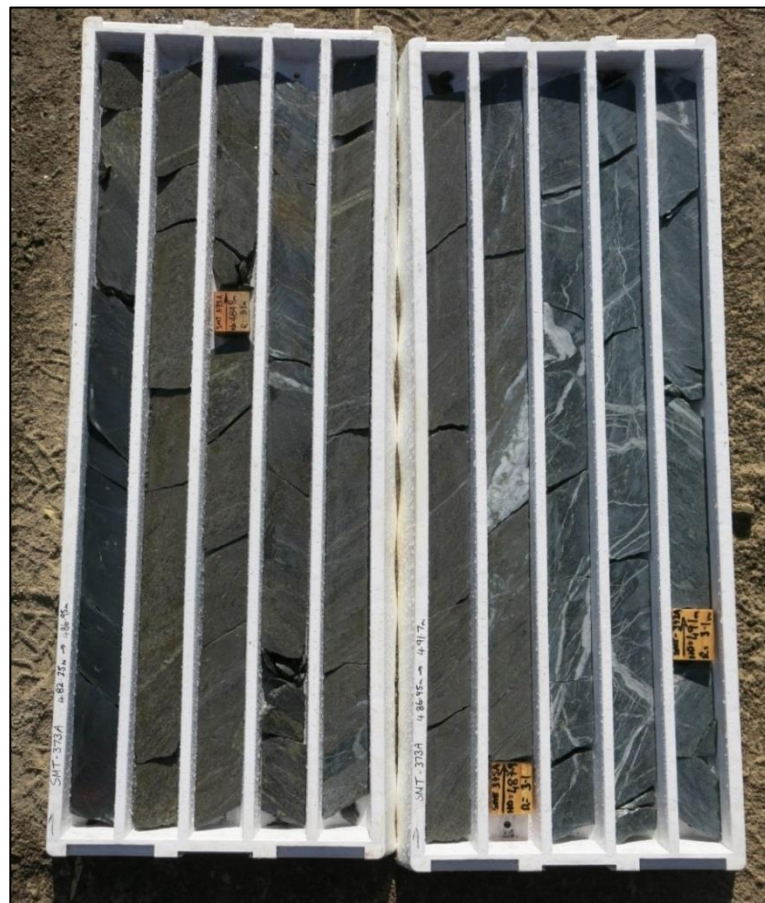
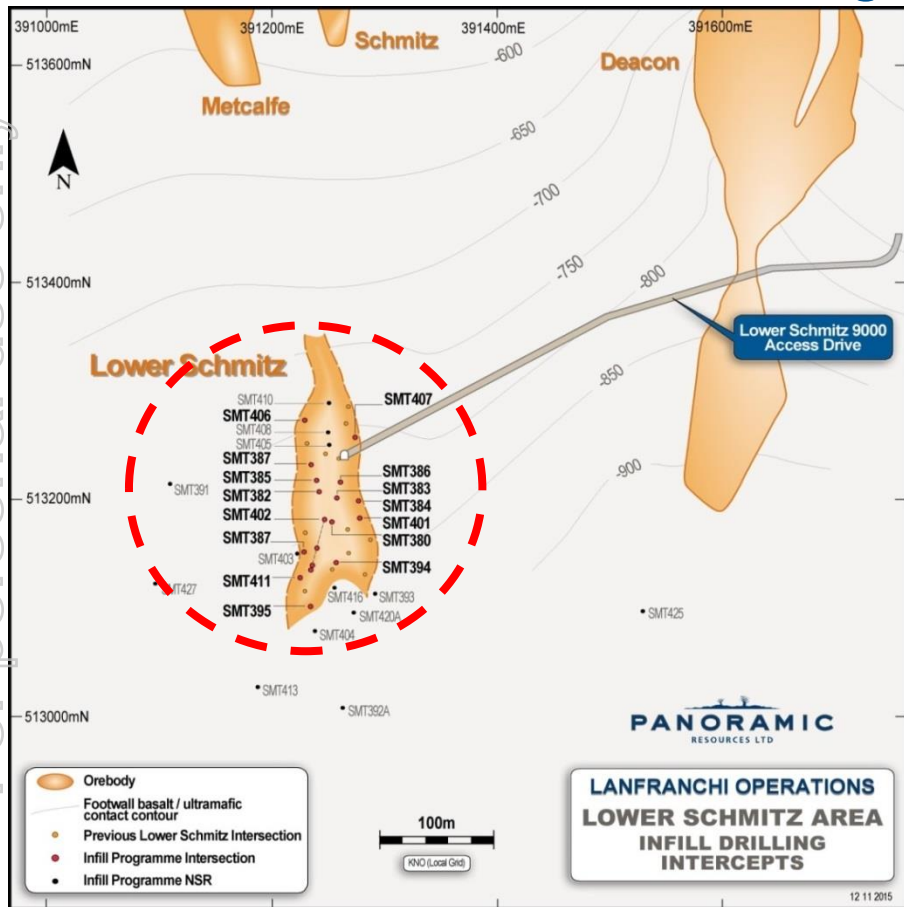
## Exploration upside

- Multiple exploration targets identified



# Lanfranchi – Lower Schmitz high-grade

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# Lanfranchi – significant exploration potential

## Schmitz Channel – Lower Zone

- 700m below surface
- 9,000t Ni per 100m vertical\*
- Historic production of ~53,000t Ni from the Schmitz channel including:
  - Schmitz 33,552t Ni
  - Skinner 13,678t Ni
  - Winner 6,250t Ni

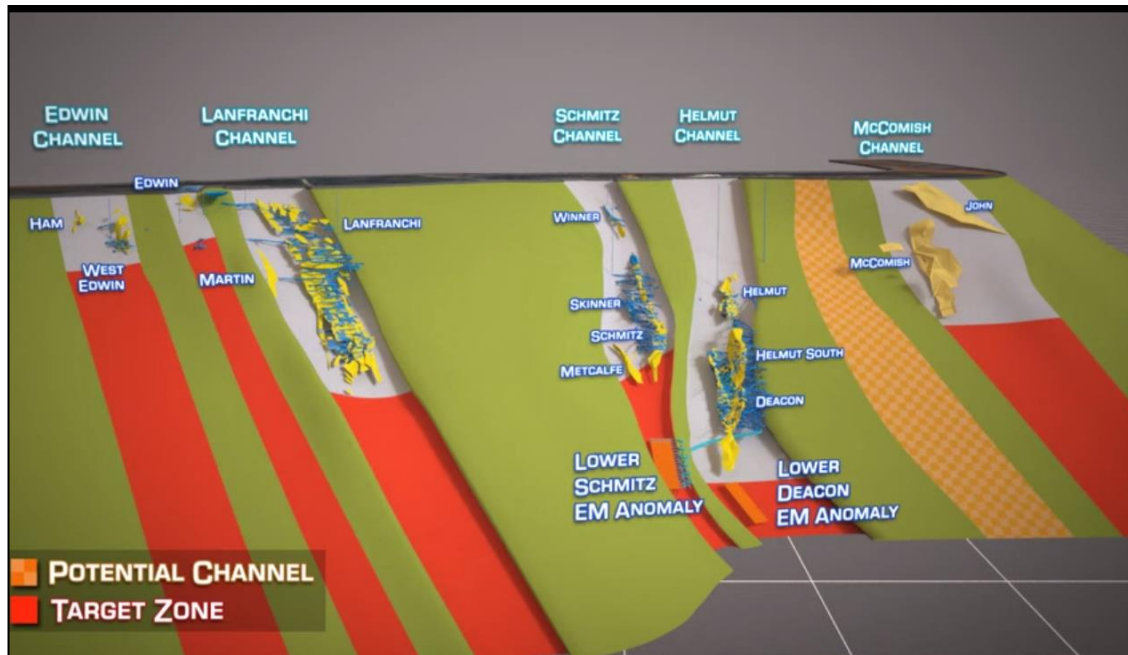
## Lanfranchi Channel

- 500m below surface
- 6,000t Ni per 100m vertical\*

## Helmut/Deacon Channel

- 900m below surface
- 20,000t Ni per 100m vertical\*

## New Channels?

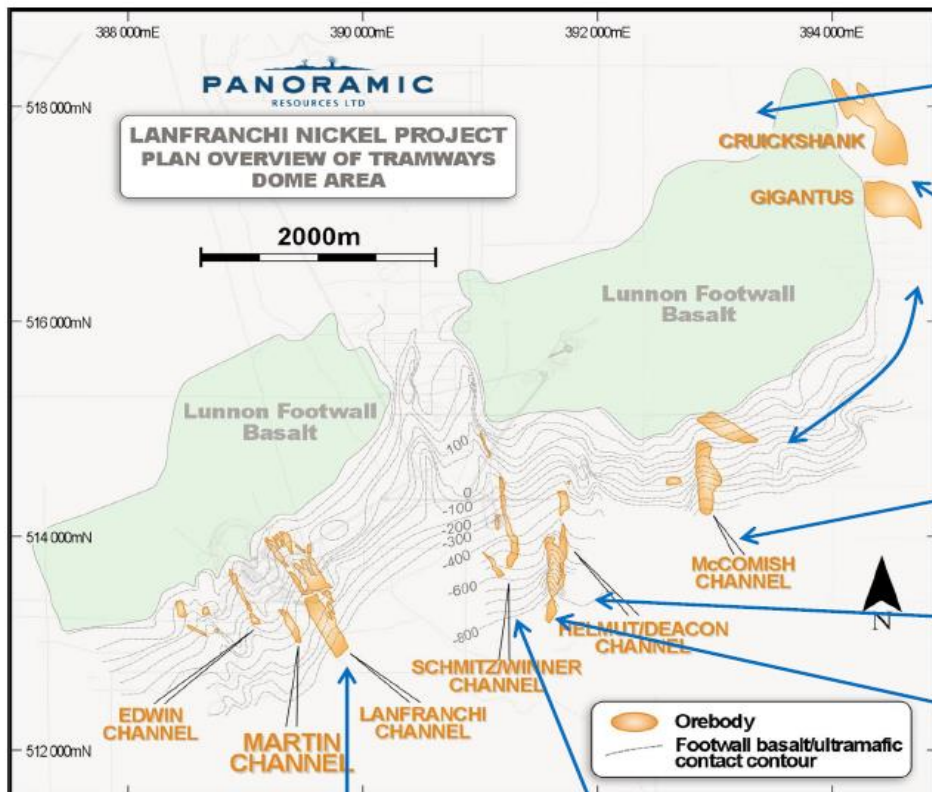


\*Historical Ni tonnes per vertical metre



# Lanfranchi – Exploration Targets

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Northern Dome East channel with prospective geochemistry magnetic anomalies.

Cruickshank – depth extension around fold hinge

Gigantus to McCormish – ~2km minimal exploration

McCormish – known channel underexplored

East Deacon – EM anomaly with spinifex sulphides intersected

Lower Deacon channel structure with EM anomaly

Lanfranchi – channel open at depth

Lower Schmitz – depth extensions [PRIORITY]

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# HORIZON GOLD

L I M I T E D

## Unlocking Gum Creek

Proposed ASX code: HRN

[www.horizongold.com.au](http://www.horizongold.com.au)



## New gold company

### 1.25Moz Resource and large ground holding on the Gum Creek Greenstone Belt

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#### IPO and Capital Raising

- Panoramic Resources (ASX: PAN) to spin out Horizon Gold (new ASX listing)
- \$15M fully underwritten IPO capital raising at \$0.40 per share
- PAN will retain a 51% interest in Horizon Gold (escrowed for two-years)

#### Capital Structure post IPO

- Shares on issue 76.53M, market capitalisation ~\$30.6M (at \$0.40 per share)
- Pro-forma cash ~\$13.65M, enterprise value ~\$16.9M
- Zeta Resources, PAN's largest shareholder, has agreed to sub-underwrite the IPO to \$4.6M (~15% of Horizon Gold)

#### Gum Creek Gold Project

- Acquired by PAN in 2011-2012 for ~\$23M
- Significant exploration activity by PAN has doubled Resources to 1.25Moz<sup>1</sup>
- Substantial infrastructure in-place and historical production >1Moz<sup>2</sup>
- 724km<sup>2</sup> of tenure covering the Gum Creek Greenstone Belt

#### Exploration and news flow post IPO

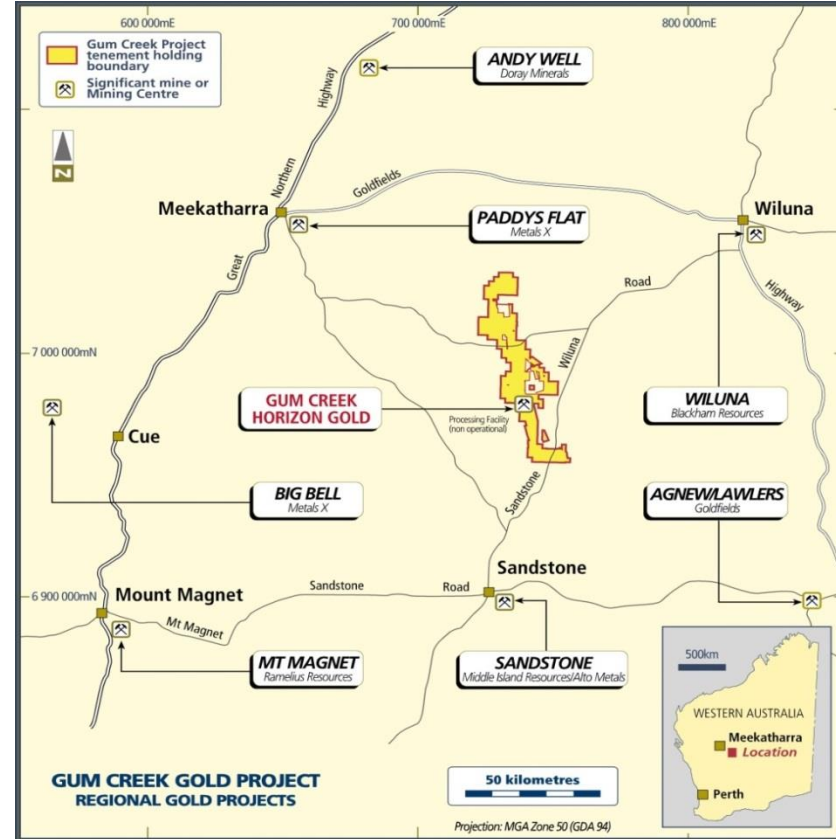
- Resource extension and infill drilling
- Regional exploration targeting new gold discoveries
- Free Milling and Refractory development studies

Note 1: refer JORC Resource Table on slide 13 for details

Note 2: refer Appendix 1 Gum Creek Historical Production

# Horizon Gold - Gum Creek Gold Project

- **Location** – 640km NE of Perth, Western Australia
- **Large tenement package** - 724km<sup>2</sup> covering the Gum Creek Greenstone belt
- **Significant Resources** - 17.3Mt at an average grade of 2.25g/t Au for **1.25Moz**
- **Tenements** - 42 mining tenements with key Resources held on **granted mining leases**
- **New exploration targets** – 14 priority exploration targets recently identified
- **Historic Production** - >1Moz gold
- **Substantial infrastructure:**
  - 600ktpa process plant (not in operation and not capable of use without significant capital investment in refurbishment)
  - Village and airstrip
  - Tailings storage facilities
  - Extensive road network
- **Water** – excellent water quality in pits



# Significant infrastructure

Extensive site infrastructure



Air Strip



Process Plant \*



110 Person Village



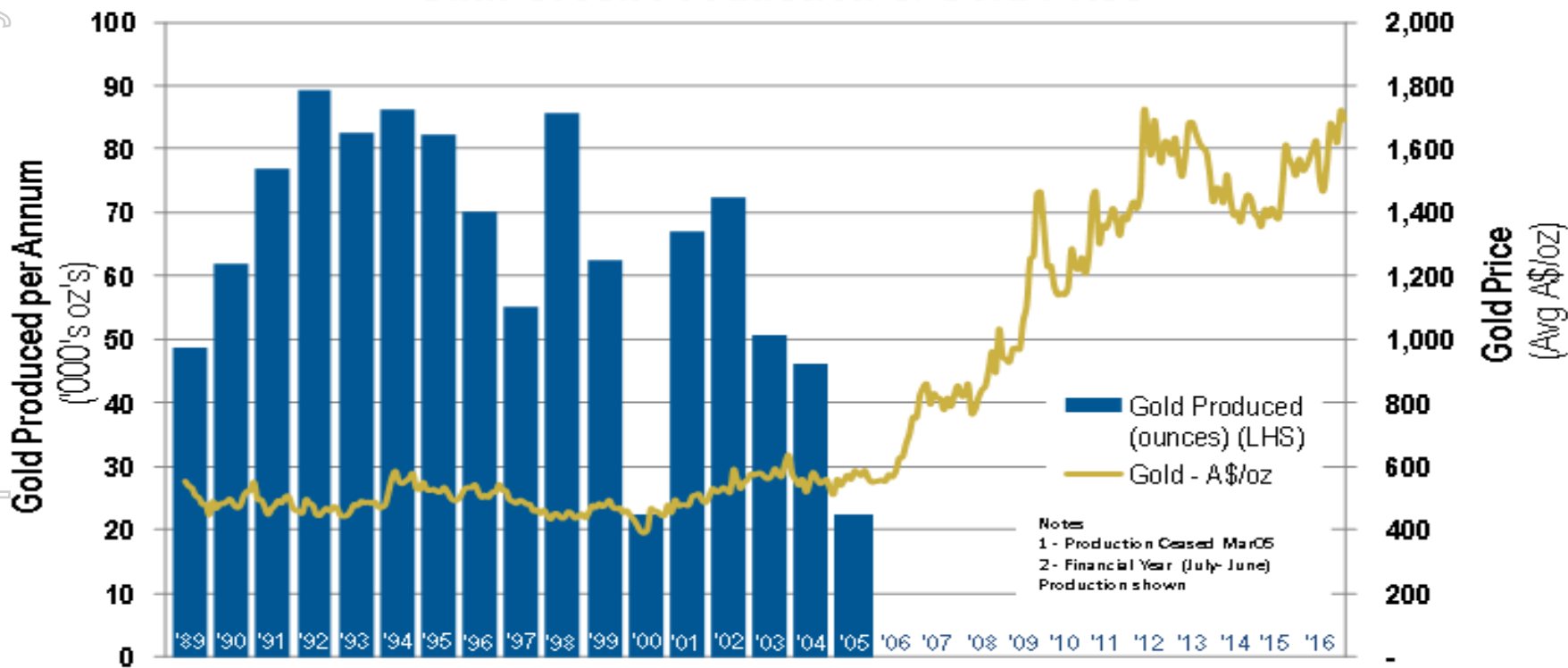
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\*not in operation and would require substantial refurbishment

# Horizon Gold - Historical Production >1Moz

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## Gum Creek Production & Gold Price

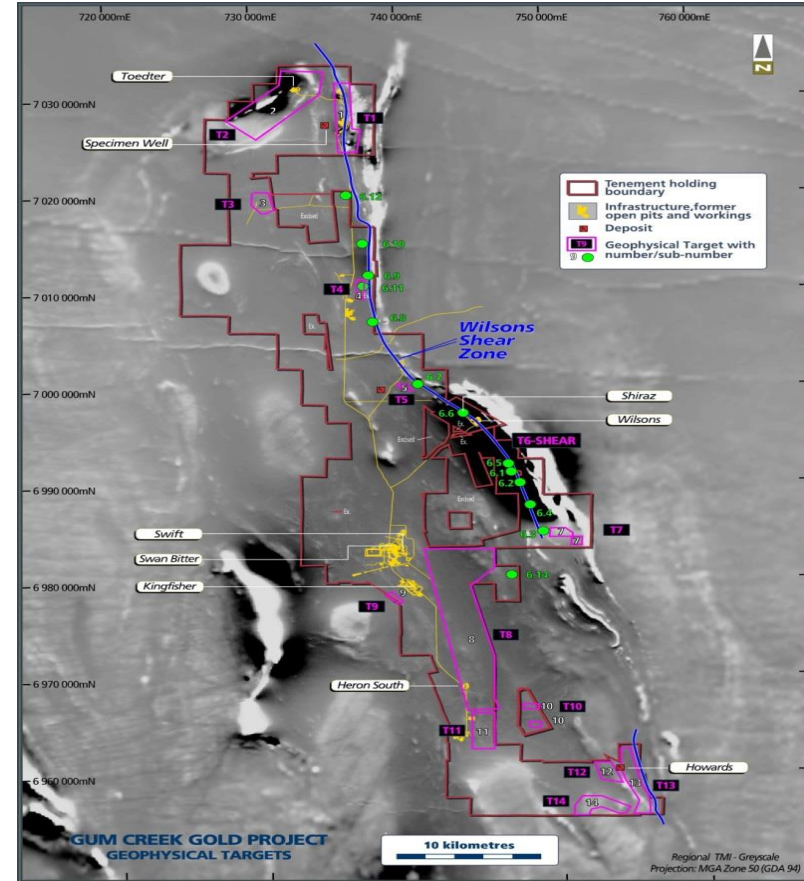




# Horizon Gold - Regional Exploration

- Recent geophysical surveys, combined with analysis of historical work has identified 14 new exploration targets
- The Wilsons Shear, which is one of the fourteen new regional targets, hosts several gold deposits and has been more accurately defined
- An additional fourteen discrete geophysical targets are located on the Wilsons Shear
- Proposed regional exploration includes ground EM surveys, IP surveys and air-core drilling to better define geophysical, geochemical and structural targets to be followed by RC and core drilling of prospects. Initial program includes:
  - 200 line kilometres of EM
  - 400 line kilometres of IP
  - 13,000m of air-core drilling

Horizon will now benefit from a fully integrated, high quality, belt scale geological, geophysical and geochemical dataset driving future exploration targeting



Refer Section 5, page 36 of the Independent Technical Report in the Prospectus

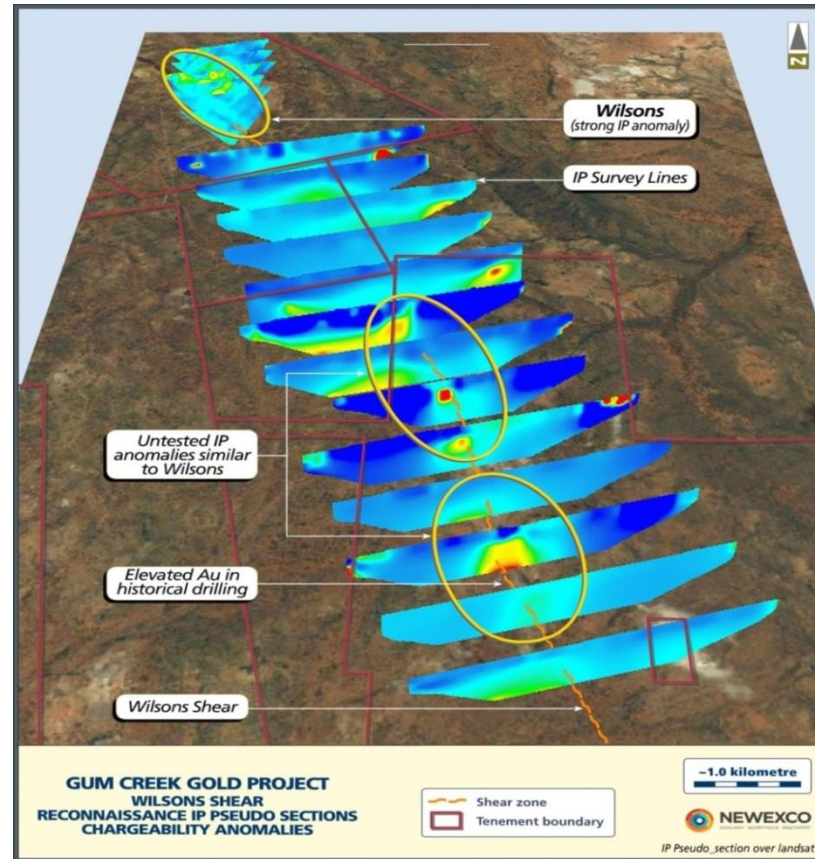


# Horizon Gold - Regional Exploration Targets

## Wilson's Shear – IP Targets

- Mineralisation at Wilsons is associated with a strong chargeable IP anomaly
- Two discrete chargeable IP anomalies similar to Wilsons have been identified coincident with the Wilsons Shear to the south of Wilsons
- Only an estimated **10% of the Wilson Shear** within Gum Creek **has been tested** using modern IP techniques
- **IP anomalies to be drill-tested**

Exploration of the two IP anomalies identified to the south of Wilsons is a priority



Refer Section 5, page 38 of the Independent Technical Report within the Prospectus

# Horizon Gold - Objectives and Strategy

Proposed strategy comprises three key objectives:

## 1. Resource Extension and Infill

- To grow the known resources and lift defined resources into higher-confidence JORC categories

## 2. Regional Exploration

- Target new gold discoveries outside the known resources

## 3. Development Studies

- On free milling mineralisation
- On refractory mineralisation
- Includes metallurgical and processing investigations

Horizon's objective is to become a stand-alone gold producer



# Relative Valuation of Horizon Gold

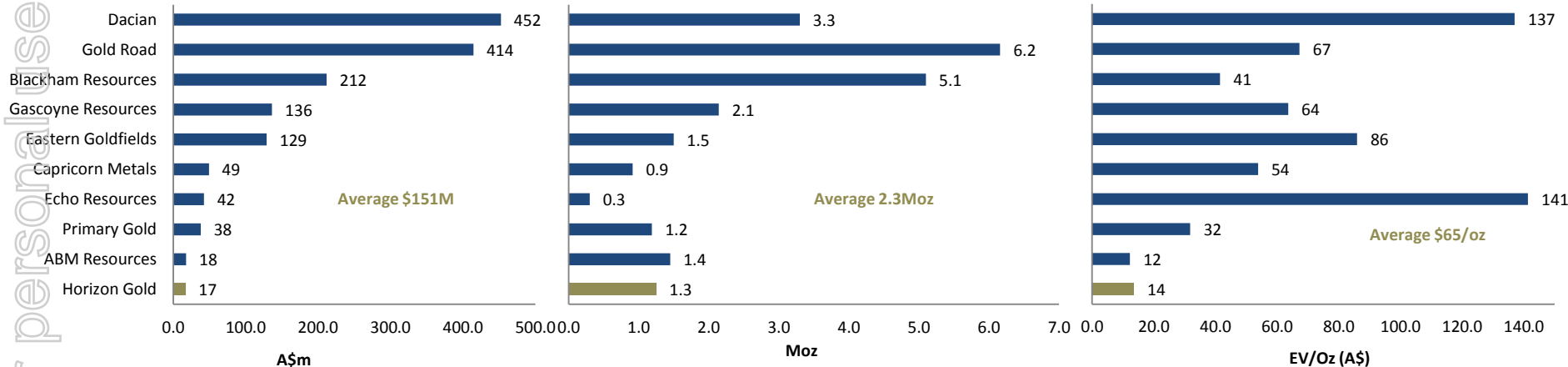
Implied EV/Resource ounce metric of ~\$14/oz is a significant discount to ASX listed gold peers

## Enterprise Value

## Resource

## EV / Resource

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Source: IRESS, Company announcements

Note: Share price as at 27 October 2016, company data sourced from latest company announcements

The share price for Horizon Gold is based on the issue price of shares under the Prospectus, being \$0.40 per share. The issue price of shares in Horizon Gold is not determinative of the actual trading price. The price at which Horizon Gold's shares trade on ASX may be higher or lower than \$0.40 per share and may be subject to varied and unpredictable influences on the market for equities in general and resource exploration stocks in particular.

# Horizon Gold IPO Indicative Timetable

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<b>Date of Prospectus and lodgement with ASIC</b>	<b>Friday, 21 October 2016</b>
<b>Priority Offer Record Date</b>	<b>Friday, 28 October 2016</b>
<b>Opening Date</b>	<b>Friday, 28 October 2016</b>
<b>Closing Date for Priority Offer (PAN Shareholders)</b>	<b>Friday, 18 November 2016</b>
<b>Closing Date for Public Offer</b>	<b>Friday, 25 November 2016</b>
<b>Despatch of holding statements</b>	<b>Wednesday, 7 December 2016</b>
<b>Expected date for quotation on ASX</b>	<b>Wednesday, 14 December 2016</b>

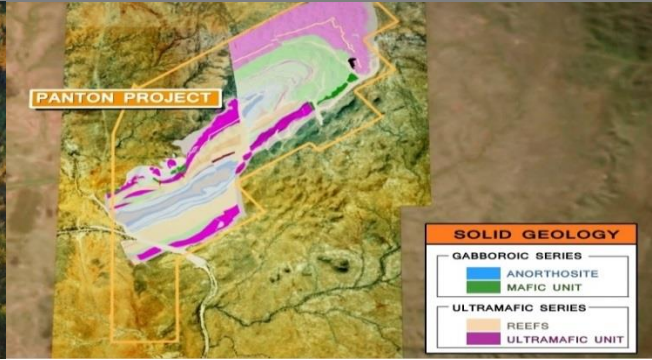
*\* The above dates are indicative only and may change without notice. The Company reserves the right to extend the Closing Dates or close the Offers early without prior notice. The Company also reserves the right not to proceed with the Offers at any time before the issue of Shares to Applicants.*

# Horizon Gold - Investment Highlights

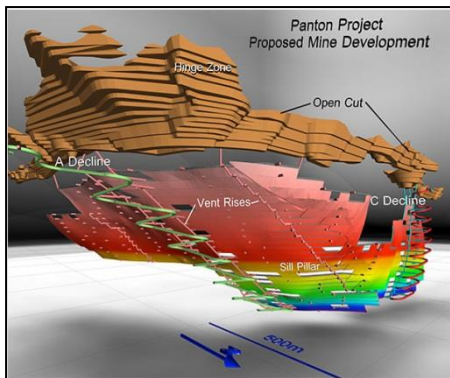
- ✓ **Well credentialed board and management**
  - Proven track record of exploration discovery and development
- ✓ **Strong cash position**
  - To fund active exploration program and development studies
- ✓ **Supportive shareholder base**
  - PAN (51%) to provide management and technical expertise
  - Zeta Resources (~15%) has agreed to sub-underwrite up to \$4.6M
- ✓ **Valuable Resource base, infrastructure and prospective exploration tenure**
  - Historical acquisition cost ~\$23M, plus significant in-ground exploration spend
  - IPO valuation represents a significant discount to ASX listed peers (\$/Resource oz)
- ✓ **Large prospective greenstone belt**
  - Current Resources 1.25Moz averaging 2.25g/t
- ✓ **Exploration upside**
  - 14 new priority exploration targets identified
  - Exploration drilling a priority post listing
  - Exciting IP targets – Wilsons Shear
- ✓ **Previous Studies**
  - Illustrate a potential pathway to development for both free milling and refractory Resources
  - Further work to be undertaken to enhance economics and de-risk
- ✓ **Exploration results and news flow post IPO**



# PGM option



# PGMs



## Panton

- Only 60km from Savannah

## Resources\*

- 2Moz of Pt+Pd

## Feasibility Study by previous owner

- Open pit plus underground mining
- 600,000tpa throughput rate
- 83,000oz Pt+Pd+Au per year

## Recent positive test work by Panoramic

- Improved recovery and concentrate grade
- Ore sorting



## Thunder Bay North

- Located in Ontario, Canada

## Resources\*

- 0.7Moz of Pt+Pd

## Rio earn in and JV option

- Consolidates Thunder Bay North Project (TBN) and Rio's Escape Lake Project (EL)

## Rio Farm-in

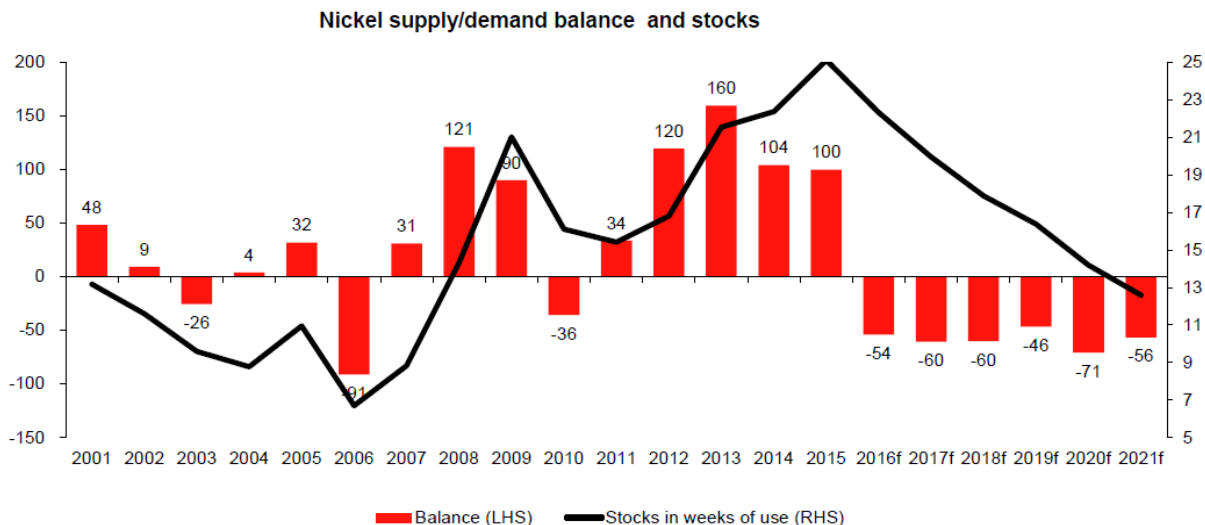
- **Earn in Option** - Rio spending up to C\$20M (minimum C\$5M) over 5½ years to earn a 70% interest in TBN



# Nickel Price Outlook

# Nickel price outlook much brighter

Market swinging into deficit on robust demand, despite NPI gains in Indonesia



Source: INSG, Company data, CRU, Macquarie Research, October 2016

We continue to anticipate an announcement of large-scale Filipino mine suspensions and resulting ore stocks drawdowns to low levels. We now expect this will drive nickel prices up to c.\$12,500/t over the next three months, relative to current pricing of c.\$10,800/t. The potential for nickel prices to rise more than our base case 3-mo target of \$12,500/t is high in our view, with upside in the bull case of larger and/or more permanent than expected Philippines mine suspensions potentially driving prices up to \$15-16,000/t. The main downside risk is a substantial decline in Chinese steel and coking coal prices, which could weigh on sentiment in the ferrous sector as well as reduce costs of production.

Source: Goldman Sachs, November 2016

# 2017 Deliverables

## SAFETY

No LTIs



## GROWTH

Increase Nickel Reserves

## RESOURCES

Continue to grow Savannah Resources



## GOLD

Complete IPO of Gum Creek

## Nickel Operations

Complete Savannah North feasibility & Lower Schmitz mining studies



## PGMs

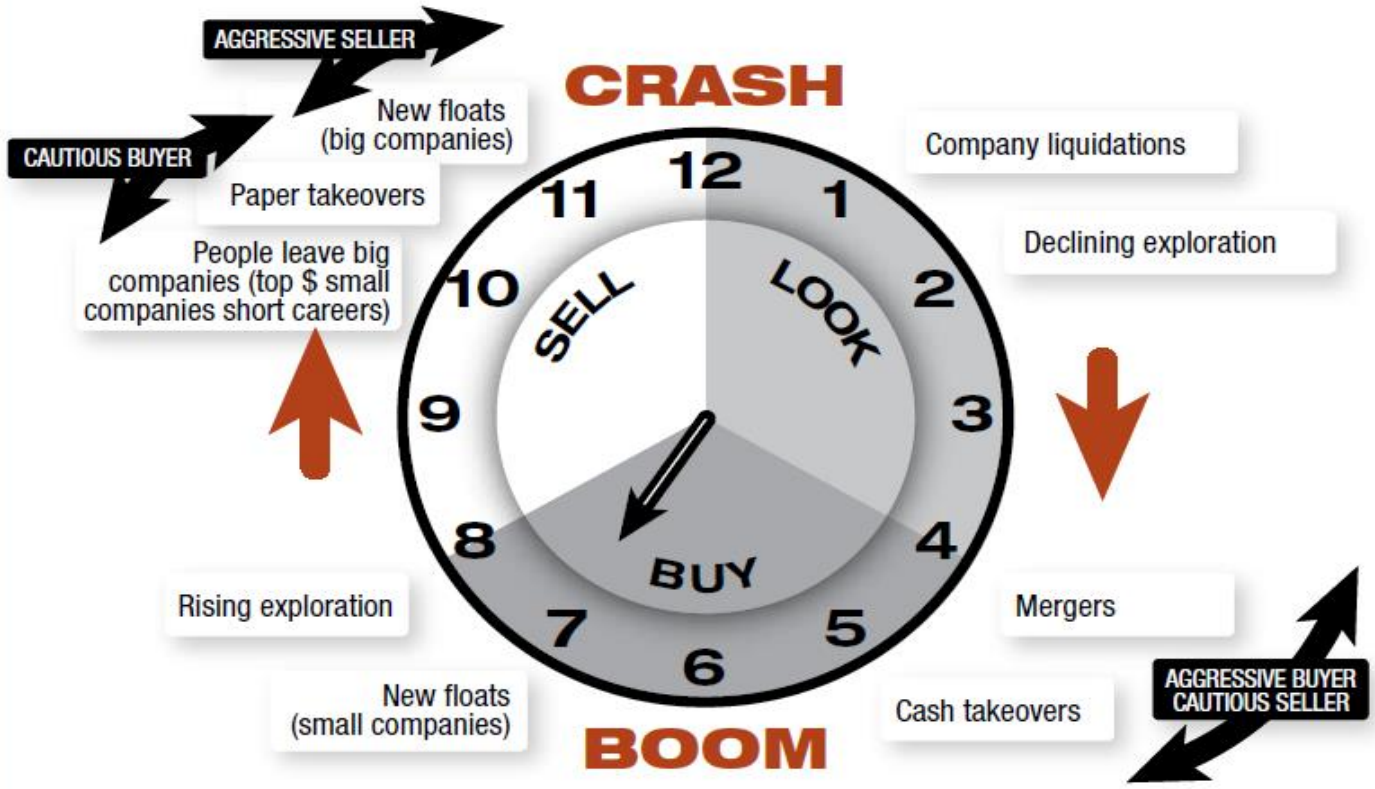
Advance both projects

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# Investment in Resources – Timing is right

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Source: LionAnalyst, August 2016. Edition 11

**ASX : PAN**

**[www.panoramicresources.com](http://www.panoramicresources.com)**

**Mission Statement**

We strive to achieve excellence in all aspects of our business to provide long term capital growth and dividend return to our shareholders, a safe and rewarding work environment for our employees, and opportunities and benefits to the people in the communities we operate in.



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# Appendices



*Note: further 2012 Edition JORC compliance tables are referenced in the PAN ASX announcement dated 30 September 2016*



# APPENDIX 1 - NICKEL - MINERAL RESOURCES AS AT 30 JUNE 2016

Resource	Equity	Metal	Date of Resource	JORC Compliance	Measured		Indicated		Inferred		Total		Metal Tonnes	
					Tonnes	(%)	Tonnes	(%)	Tonnes	(%)	Tonnes	(%)		
<b>Savannah Project</b>														
Savannah (above 900)	100%	Nickel	Jun-16	2012	1,275,000	1.51	759,000	1.2			2,034,000	1.39	28,300	
		Copper				0.87		0.9				0.88	17,900	
		Cobalt				0.07		0.07				0.07	1,400	
Savannah (below 900)	100%	Nickel	Jun-16	2012	780,000	1.64	125,000	1.72			905,000	1.65	14,900	
		Copper				0.76		0.75				0.76	6,900	
		Cobalt				0.1		0.09				0.1	900	
Savannah North	100%	Nickel	Jun-16	2012			4,780,000	1.51	2,103,000	1.77	6,883,000	1.59	109,600	
		Copper						0.72		0.88		0.77	52,900	
		Cobalt						0.11		0.12		0.11	7,800	
Copernicus (O/P)	100%	Nickel	Jun-15	2012	132,000	0.97					132,000	0.97	1,300	
		Copper				0.52						0.52	700	
		Cobalt				0.03						0.03	0	
Copernicus (U/G)	100%	Nickel	Jul-10	2004			508,000	1.3	25,000	0.98	532,000	1.29	6,800	
		Copper						0.91		0.69		0.9	4,800	
		Cobalt						0.05		0.02		0.05	300	
<b>Lanfranchi Project</b>														
Cruikshank			Apr-11	2004			2,018,000	1.42	611,000	0.79	2,629,000	1.28	33,600	
Deacon			Mar-14	2012	89,000	2.99			134,000	1.7	224,000	2.22	5,000	
Gigantus			Jul-07	2004					652,000	1.63	652,000	1.63	10,600	
Helmut South			May-14	2012										
Helmut South Ext			Apr-14	2012	21,000	4.54	29,000	2.87			50,000	3.59	1,800	
John			Jul-07	2004					291,000	1.42	291,000	1.42	4,100	
Lanfranchi			Apr-14	2012	40,000	4.12	55,000	4.4	63,000	3.49	158,000	3.97	6,300	
Martin			Feb-12	2012			47,000	3.58	7,000	4.16	54,000	3.66	2,000	
McComish			Jul-07	2004					992,000	1.49	992,000	1.49	14,800	
Metcalfe			Jan-14	2012			280,000	1.99	111,000	1.35	391,000	1.81	7,100	
Schmitz			Jul-13	2012	30,000	4.92	23,000	3.93	16,000	2.95	69,000	4.14	2,900	
Lower Schmitz			Mar-16	2012			51,000	5.6	79,000	4.8	131,000	5.11	6,700	
Winner			Jul-11	2004			14,000	4.4			14,000	4.4	600	
<b>Total (Equity)</b>		Nickel												256,300
		Copper												83,200
		Cobalt												10,400

Note: Savannah Resources upgraded – refer ASX Announcement 24 August 2016

# QUALIFYING STATEMENT AND NOTES

## Notes:

- *Figures have been rounded and therefore may not add up exactly to the reported totals*
- *All resources are inclusive of reserves*
- *Savannah Project Resource cutoff grade is 0.50% Ni*
- *Copernicus Project Resource cutoff grade is 0.50% Ni*
- *Lanfranchi Project Resource cutoff grade is 1.00% Ni*

## Competent Person Statement

*The information that relates to Mineral Resources is based on information compiled by or reviewed by Paul Hetherington (MAusIMM) for the Savannah Project Resource and Copernicus Project Resource and Bradley Robinson (MAusIMM) for the Lanfranchi Project Resources. The aforementioned were formerly full-time employees of Panoramic Resources Limited. The aforementioned have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The aforementioned consent to the inclusion in the release of the matters based on their information in the form and context in which it appears.*

*The information that relates Mineral Resources at Lower Schmitz is based on information compiled by Mr Paul Payne. Mr Payne is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and consultant working for Payne Geological Services Pty Ltd (PayneGeo). Mr Payne has sufficient experience that is relevant to the style of mineralisation and type of target/deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Payne consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.*



## APPENDIX 2 - NICKEL - ORE RESERVE AS AT 30 JUNE 2016

Reserve	Equity	Metal	Date of Reserve	JORC Compliance	Proven		Probable		Total		Metal Tonnes
					Tonnes	(%)	Tonnes	(%)	Tonnes	(%)	
<b>Savannah Project</b>											
Above 900 Fault	100%	Nickel	Jun-16	2012	1,365,000	1.15	194,000	1.24	1,558,000	1.16	18,100
		Copper				0.66		1.28		0.74	11,500
		Cobalt				0.06		0.07		0.06	900
Below 900 Fault	100%	Nickel	Jun-16	2012							
		Copper									
		Cobalt									
Copernicus Open Pit	100%	Nickel	Jun-16	2004							
		Copper									
		Cobalt									
<b>Lanfranchi Project</b>											
Deacon			Jun-16	2012			42,000	2.67	42,000	2.67	1,100
Metcalfe			Jun-16	2012			113,000	1.57	113,000	1.57	1,800
Lanfranchi			Jun-16	2012			11,000	2.56	11,000	2.56	300
Schmitz			Jun-16	2012			15,000	2.96	15,000	2.96	500
Helmut Sth Ext			Jun-16	2012			27,000	2.19	27,000	2.19	600
<b>Total (Equity)</b>		<b>Nickel</b>									<b>22,300</b>
		<b>Copper</b>									<b>11,500</b>
		<b>Cobalt</b>									<b>900</b>

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# QUALIFYING STATEMENT AND NOTES

## Notes:

- *Figures have been rounded and therefore may not add up exactly to the reported totals*
- *All reserves are inclusive of resources*
- *Savannah Project Reserve cutoff grade is 0.80% Ni*
- *Lanfranchi Project Reserve cutoff grade is 1.00% Ni except for airleg mining which is 2.00% Ni*

## Competent Person Statement

*Information relating to Ore Reserves has been compiled by or reviewed by Lilong Chen (MAusIMM). The aforementioned is a full-time employee of Panoramic Resources Limited. The aforementioned has sufficient experience that is relevant to the style 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 2012 Edition of the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The aforementioned consents to the inclusion in the release of the matters based on his information in the form and context in which it appears.*

# APPENDIX 3 - GOLD - MINERAL RESOURCES AS AT 30 SEPTEMBER 2016

Resource	Resource Date	Cut-off grade (g/t Au)	Mineralisation Type	Indicated		Inferred		Total		Contained Gold (oz)
				Tonnes	Au (g/t)	Tonnes	Au (g/t)	Tonnes	Au (g/t)	
<b>Open Pit Resources</b>										
Swan OC	Jun-15	0.7	Free Milling	2,250,000	2.57	990,000	2.36	3,240,000	2.51	261,100
Heron South	Aug-16	0.5	Refractory	1,135,000	2.20	2,000	1.32	1,137,000	2.20	80,400
Howards	Jul-13	0.4	Free Milling	5,255,000	1.07	716,000	1.01	5,971,000	1.06	204,000
Specimen Well	Aug-16	0.5	Free Milling			361,000	2.00	361,000	2.00	23,200
Toedter	Aug-16	0.5	Free Milling			690,000	1.54	690,000	1.54	34,200
Shiraz	Jul-13	0.4	Refractory	2,476,000	0.84	440,000	0.76	2,916,000	0.83	77,600
<b>Underground Resources</b>										
Swan UG	Jun-15	4.0/6.0	Free Milling	207,000	8.71	77,000	11.25	284,000	9.40	85,800
Swift UG	Jun-15	6.0	Free Milling			46,000	10.25	46,000	10.25	15,200
Kingfisher UG	Aug-16	3.5	Free Milling			391,000	6.14	391,000	6.14	77,200
Wilsons UG	Jul-13	1.0	Refractory	2,131,000	5.33	136,000	5.97	2,267,000	5.37	391,500
<b>Total</b>				<b>13,454,000</b>	<b>2.17</b>	<b>3,849,000</b>	<b>2.53</b>	<b>17,303,000</b>	<b>2.25</b>	<b>1,250,100</b>

# QUALIFYING STATEMENT AND NOTES\*

## Competent Persons Statement

*The information that relates to the Swan OC, Swan UG, Swift UG, and Kingfisher Mineral Resources is based on information compiled by or reviewed by Dr Spero Carras (FAusIMM). Dr Carras is the Executive Director of Carras Mining Pty Ltd and was acting as a consultant to Legend Mining Ltd in 2006 and Panoramic Resources Ltd between 2012 and 2016. Dr Carras has sufficient experience that is relevant to the style 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 2012 Edition of the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr Carras consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.*

*The information that relates to the Heron South, Howards, Specimen Well, Shiraz and Toedter Mineral Resources is based on information compiled by or reviewed by Andrew Bewsher (AIG). Mr Bewsher is a full time employee of BM Geological Services and has sufficient experience that is relevant to the style 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 2012 Edition of the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Bewsher consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.*

*The information that relates to the Wilsons Mineral Resource is based on information compiled by or reviewed by Ben Pollard (AIG, AusIMM). Mr Pollard is a full time employee of BM Geological Services and has sufficient experience that is relevant to the style 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 2012 Edition of the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Pollard consents to the inclusion in this release of the matters based on his information in the form and context in which it appears.*

# APPENDIX 4 - PLATINUM GROUP METALS - MINERAL RESOURCES AS AT 30 JUNE 2016

## Panton PGM Project

Resource	Equity	Date of Resource	JORC Compliance	Tonnage	Grade					Metal (oz)	
					Pt (g/t)	Pd (g/t)	Au (g/t)	Ni (%)	Cu (%)	Pt (oz ,000)	Pd (oz ,000)
<b>Top Reef</b>	<b>100%</b>	<b>Mar-12</b>	<b>2012</b>								
Measured				4,400,000	2.46	2.83	0.42	0.28	0.08	348	400
Indicated				4,130,000	2.73	3.21	0.38	0.31	0.09	363	426
Inferred				1,560,000	2.1	2.35	0.38	0.36	0.13	105	118
<b>Middle Reef</b>	<b>100%</b>	<b>Mar-12</b>	<b>2012</b>								
Measured				2,130,000	1.36	1.09	0.1	0.18	0.03	93	75
Indicated				1,500,000	1.56	1.28	0.1	0.19	0.04	75	62
Inferred				600,000	1.22	1.07	0.1	0.19	0.05	24	21
<b>Total (Equity)</b>				<b>14,320,000</b>	<b>2.19</b>	<b>2.39</b>	<b>0.31</b>	<b>0.27</b>	<b>0.08</b>	<b>984</b>	<b>1,081</b>

## QUALIFYING STATEMENT AND NOTES

**Cross references to previous market announcements:**

*refer ASX announcement dated 30 September 2015 titled "Mineral Resources and Ore Reserves at 30 June 2015"*

### No New Information or Data

*The Panton Mineral Resource estimates tabled above have been previously reported, and the relevant market announcements cross referenced. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.*



# APPENDIX 5 - PLATINUM GROUP METALS - MINERAL RESOURCES AS AT 30 JUNE 2015

## Thunder Bay North

Resource	Equity	Date of Resource	JORC Compliance	Tonnage	Grade									Metal (oz)	
					Pt (g/t)	Pd (g/t)	Rh (g/t)	Au (g/t)	Ag (g/t)	Cu (%)	Ni (%)	Co %	Pt-Eq (g/t)	Pt (oz ,000)	Pd (oz ,000)
Open Pit	100%	Jan-11	2004												
Indicated				8,460,000	1.04	0.98	0.04	0.07	1.5	0.25	0.18	0.014	2.13	283	267
Inferred				53,000	0.96	0.89	0.04	0.07	1.6	0.22	0.18	0.014	2	2	2
Underground	100%	Feb-12	2004												
Indicated				1,369,000	1.65	1.54	0.08	0.11	2.6	0.43	0.24	0.016	3.67	73	68
Inferred				472,000	1.32	1.25	0.06	0.09	2.1	0.36	0.19	0.011	2.97	20	19
<b>Total (Equity)</b>				<b>10,354,000</b>										<b>377</b>	<b>355</b>

## QUALIFYING STATEMENT AND NOTES

### Notes - Open Pit Resource:

The open pit Mineral Resource is reported at a cut-off grade of 0.59 g/t Pt-Eq within a Lerchs-Grossman resource pit shell optimized on Pt-Eq. The strip ratio (waste:ore) of this pit is 9.5:1. The platinum-equivalency formula is based on assumed metal prices and overall recoveries. The Pt-Eq formula is:  $Pt-Eq\ g/t = Pt\ g/t + Pd\ g/t \times 0.3204 + Au\ g/t \times 0.6379 + Ag\ g/t \times 0.0062 + Cu\ g/t \times 0.00011 + Total\ Ni\ g/t \times 0.000195 + Total\ Co\ g/t \times 0.000124 + Rh\ g/t \times 2.1816$ .

The conversion factor shown in the formula for each metal represents the conversion from each metal to platinum on a recovered value basis. The assumed metal prices used in the Pt-Eq formula are: Pt US\$1,595/oz, Pd US\$512/oz, Au US\$1,015/oz, Ag US\$15.74/oz, Cu US\$2.20/lb, Ni US\$7.71/lb, Co US\$7.71/lb and Rh US\$3,479/oz. The assumed combined flotation and Platsol™ process recoveries used in the Pt-Eq formula are: Pt 76%, Pd 75%, Au 76%, Ag 55%, Cu 86%, Ni 44%, Co 28% and Rh 76%. The assumed refinery payables are: Pt 98%, Pd 98%, Au 97%, Ag 85%, Cu 100%, Ni 100%, Co 100% and Rh 98%.

# QUALIFYING STATEMENT AND NOTES CONT.

## Notes - Underground Resources:

*The underground mineral resource is reported at a cut-off grade of 1.94g/t Pt-Eq. The Pt-Eq formula is:  $Pt-Eq\ g/t = Pt\ g/t + Pd\ g/t \times 0.2721 + Au\ g/t \times 0.3968 + Ag\ g/t \times 0.0084 + Cu\ g/t \times 0.000118 + Sulphide\ Ni\ g/t \times 0.000433 + Sulphide\ Co\ g/t \times 0.000428 + Rh\ g/t \times 2.7211$ . The assumed metal prices used in the Pt-Eq formula are: Pt US\$1,470/oz, Pd US\$400/oz, Rh US\$4,000/oz, Au US\$875/oz, Ag US\$14.30/oz, Cu US\$2.10/lb, Ni US\$7.30/lb and Co US\$13.00/lb. The assumed process recoveries used in the Pt-Eq formula are: Pt 75%, Pd 75%, Rh 75%, Au 50%, Ag 50%, Cu 90%, and Ni and Co in sulphide 90%. The assumed smelter recoveries used in the Pt-Eq formula are Pt 85%, Pd 85%, Rh 85%, Au 85%, Ag 85%, Cu 85%, Ni 90% and Co 50%. Ni and Co in sulphide were estimated by linear regression of MgO to total Ni and total Co respectively. The regression formula for Ni in sulphide (NiSx) is:  $NiSx = Ni - (MgO\% \times 60.35 - 551.43)$ . The regression formula for Co in sulphide (CoSx) is:  $CoSx = Co - (MgO\% \times 4.45 - 9.25)$ .*

## Cross references to previous market announcements:

*Open pit Resources – refer Magma Metals Limited (ASX:MMW) announcement dated 7 February 2011 titled “Positive Scoping Study for Thunder Bay North Project”*

*Underground Resources – refer Magma Metals Limited (ASX:MMW) announcement dated 23 February 2012 titled “Magma Metals Increases Mineral Resources at TBN to 790,000 Platinum-Equivalent Ounces”*

## No New Information or Data

*The Thunder Bay North Mineral Resource estimates tabled above have been previously reported, and the relevant market announcements cross referenced. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.*