

# Significant leverage to

- Exploration success
- Cashflow from nickel operations
- Gold and PGM assets



**CLSA Base Metals Access Day, Sydney 4 February 2015** 

**ASX: PAN** 

www.panoramicresources.com

## 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. Such forward-looking statements may include, without limitation:

- estimates of future earnings, the sensitivity of earnings to metal prices and foreign exchange rate movements;
- estimates of future metal production and sales;
- estimates of future cash flows, the sensitivity of cash flows to metals prices and foreign exchange rate movements;
- statements regarding future debt repayments;
- estimates of future capital expenditures;
- estimates of reserves and statements regarding future exploration results and the replacement of reserves; and
- statements regarding modifications to the Company's hedge position.

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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 presentation, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.





# **Topics**

- Company Overview
- Leveraged to Nickel
- Leveraged to Gold
- Leveraged to PGM
- Summary
- Additional Information



### **Investment rationale**

### **Nickel production**



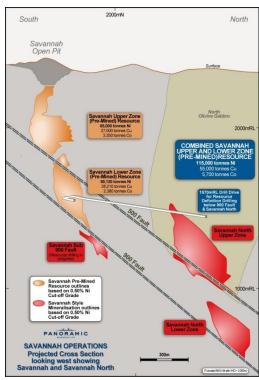
#### **Cashflow**

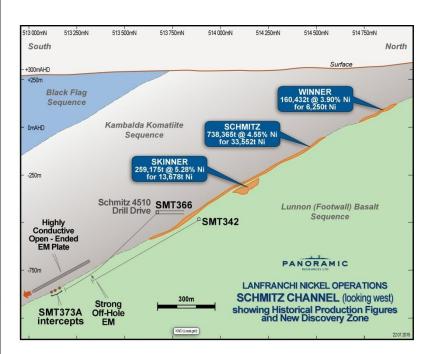


### **Potential mine life extensions**

Leveraged to a higher US\$ Ni

**Leveraged to lower A\$** 





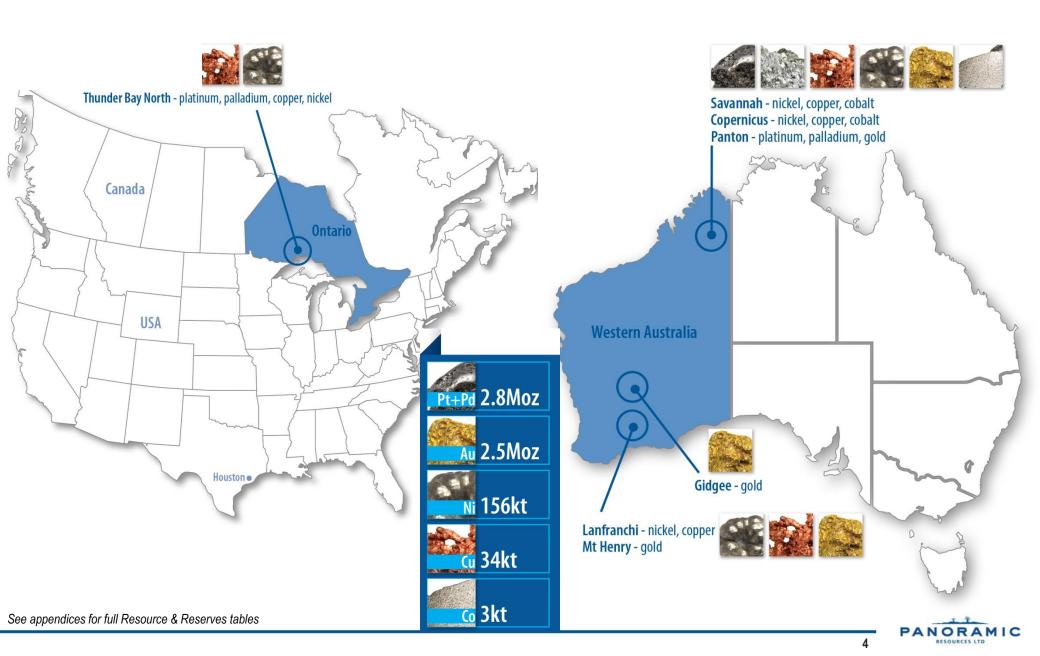
**Gold and PGM optionality** 







# Our portfolio – nickel, copper, cobalt, gold, platinum, palladium



# **Capital growth - share price performance**

Market Cap and Enterprise Value Pro forma		
ASX Ticker	ASX:PAN	
Shares on issue	321.4M	
Share Price	\$0.455 (2 February 2015)	
Market Cap	\$146M	
Cash	\$61M (31 December 2014)	
Bank debt	Nil	
Enterprise Value	\$85M	

#### **Board**

Brian Phillips Non Executive Chairman

Peter Harold Managing Director

Chris Langdon Non Executive Director

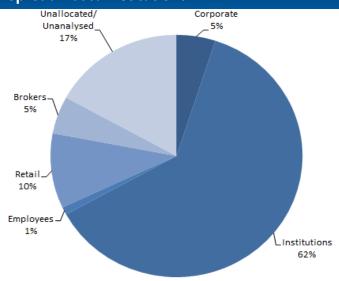
John Rowe Non Executive Director

Trevor Eton CFO/Company Secretary

#### 12 month share price performance



#### Shareholder spread +60% institutional





# **December 2014 quarter highlights**

### Group

- Dec quarter production 4,825t Ni
- Liquid assets \$79 million
- Cash \$61 million
- Group payable cash costs US\$5.07/lb (A\$5.92/lb)
- Safety three LTI's recorded

#### Savannah

 Exploration - Savannah North exploration drive advanced, available for drill out Q2 2015

#### Lanfranchi

• <u>High-grade mineralisation intersected down-plunge of the Schmitz orebody - potential game changer</u>

### **Projects**

- Thunder Bay North Rio Tinto Exploration Canada Inc. to proceed with C\$20m Earn-in and JV
- Gold Projects Feasibility Studies nearing completion, trade sale/IPO being investigated, gold price >A\$1,600

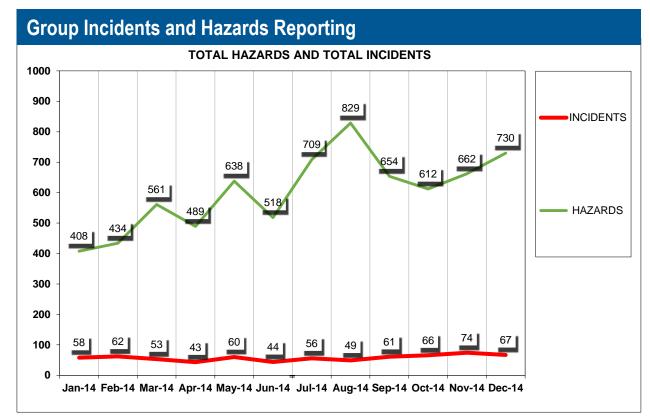






# **Safety - our Number One Value**

- Improved hazard reporting
- Reduction in number of total incidents reported
- Three LTI's recorded during the December quarter

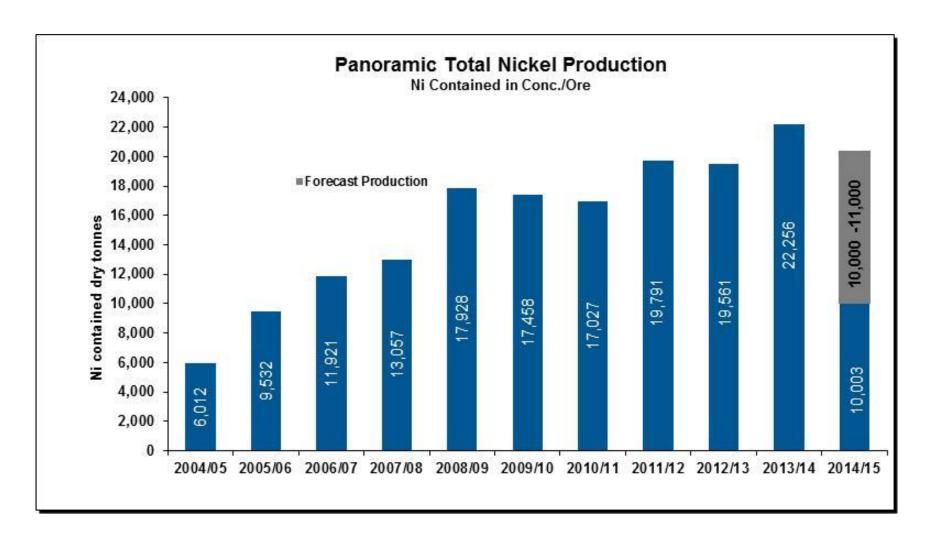


Note: Group hazard and incident report to 31 Dec 2014



## **Group production**

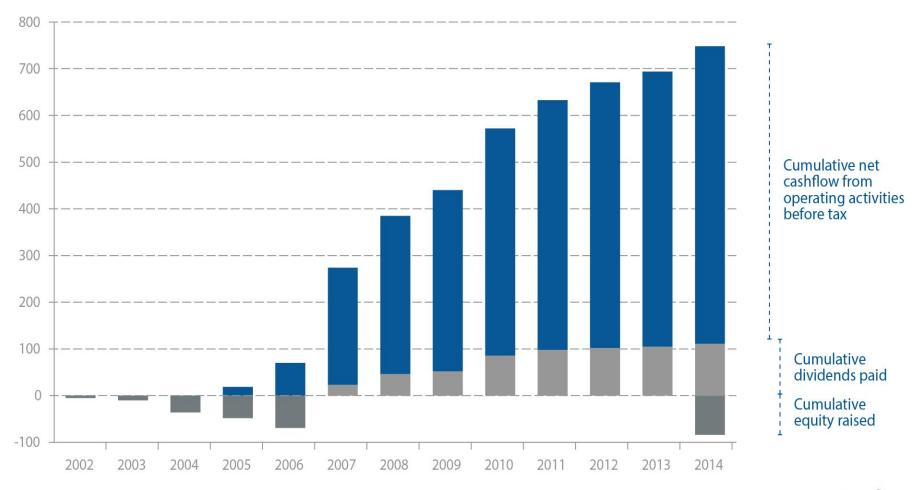
FY2015 - guidance maintained at 20-21,000t Ni



## **Cumulative cashflow to 30 June 2014**

Cumulative net cash flow exceeds \$750 million

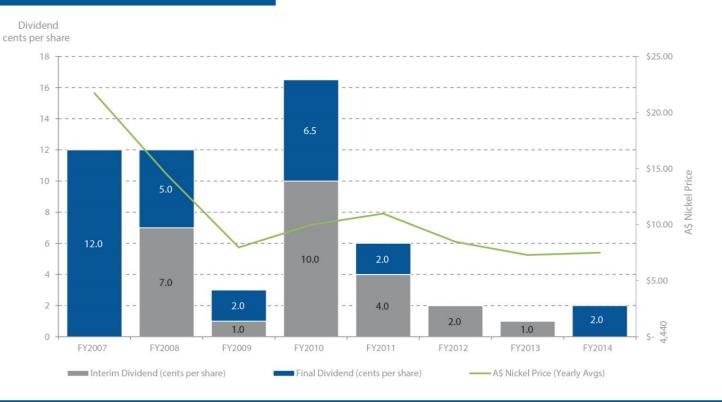
### **PANORAMIC CASHFLOW**



## **Dividend stream**

- FY14 final dividend 2 cents fully franked
- Payout ratio 47% on the second half net profit of \$14 million
- Aggregate dividends 54.5 cents per share
- Total dividends paid \$111.1 million fully franked

#### **PANORAMIC DIVIDEND HISTORY**



### Our nickel business

## **Summary**

- Two underground sulphide nickel mines
- Well established operations
- Significant potential for mine life extensions

## **Recent highlights**

- Exploration success
  - Lanfranchi (down-plunge Schmitz)
  - Savannah North
  - Potential for significant mine life extension at both sites
- Steady-state production
- Costs on budget
- Mining and milling of Copernicus open pit resumed







## Savannah FY2015

### Production guidance

• Nickel ~8-9kt Ni

Copper ~5-5.5kt Cu

• **Cobalt** ~400-450t Co

### Exploration

- Savannah North Resource definition drilling
- Resource drilling below the 900 Fault
- Exploration budget ~\$12M including exploration drive

### Cost Savings

- Lock in current savings
- Find additional savings
- Lower diesel price

### Productivity

Copernicus open pit recommenced







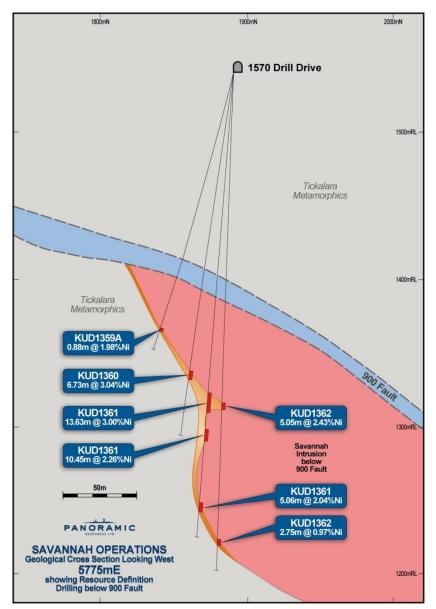
### Savannah - below the 900 Fault

#### **Recent results**

- KUD1356 intersected 8.95m @ 2.59% Ni, 0.29% Cu and 0.16% Cu
- KUD1360 intersected 5.73m @ 3.04% Ni,
   1.14% Cu and 0.19% Co
- KUD1361 intersected 13.63m @ 3.00% Ni,
   1.22% Cu and 0.19%% Co
- KUD1363 intersected 17.55m @ 1.80% Ni, 0.66% Cu and 0.11% Co, including 13.35m @ 2.08% Ni

### **Next steps**

- Continue drilling below the 900 Fault
- Resource and Reserve by mid 2015
- Extend mine life



Cross section showing Resource definition drilling below the 900 Fault,

# Savannah North - major new discovery - game changer

### **Discovery hole**

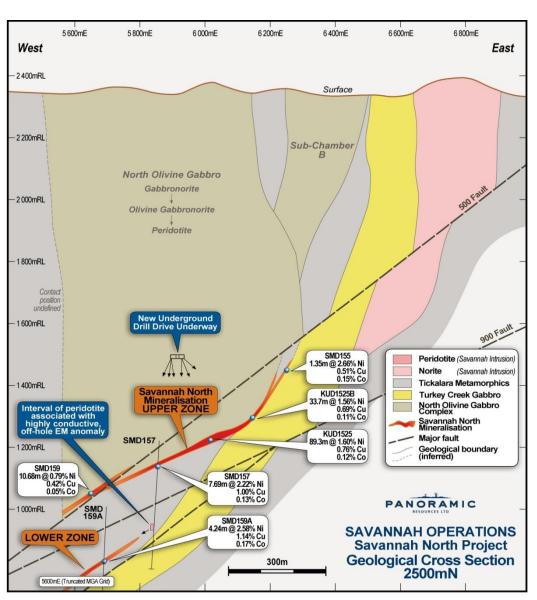
KUD1525 intersected 89.3m @ 1.60% Ni, 0.76%
 Cu, 0.12% Co from 704.9m

#### **Better results**

- KUD1525B intersected 33.7m @ 1.56% Ni
- SMD159A intersected 3.25m @ 2.36% Ni from 1,434.30m & 4.24m @ 2.58% Ni from 1,581.62m which could be a second zone

### **Key points**

- Coincident with large conductive EM body
- EM and mineralisation open to west and northwest
- KUD1530 down-hole EM shows broad strong offhole EM response from 750m down-hole (could be large body to the north)
- Potential new zone 150m below current Savannah North mineralisation



Cross Section View (2500mN) showing interpreted position of Savannah North mineralisation

## **Savannah North - exploration target**

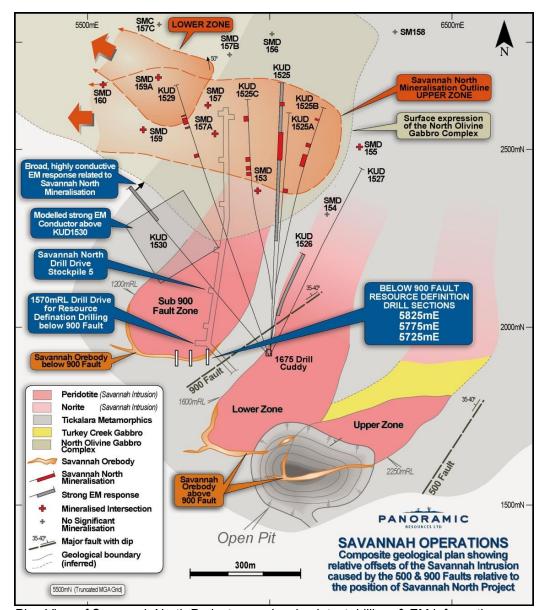
Width of mineralisation	Plunge extent of mineralisation	Approximate thickness of mineralisation	Assumed average density	Exploration grade %	range	Exploration target tonnage range
(metres)	(metres)	(metres)		Low -	High	(millions tonnes)
350	600	4.0	3.8	1.5%	2.1%	3.2
350	700	5.0	3.8	1.5%	2.1%	4.7
350	800	6.0	3.8	1.5%	2.1%	6.4

**Cautionary / Clarifying Statement** – the Exploration Target reported here is not a Mineral Resource. The Exploration target reported uses information gained from a combination of actual drill results from surface and underground drilling and supporting geophysical surveys. The level of exploration carried out to date is insufficient to define a Mineral Resource. The Exploration Target reported is conceptual in nature requiring further exploration. The planned exploration activities to further test Savannah North are provided below. It remains uncertain if further exploration will result in the estimation of a Mineral Resource. Refer to Panoramic ASX Quarterly Report for the period ended 30 June 2014 for the key assumptions and calculation methodology.

## Savannah North - next steps

### **Exploration Activities for FY15**

- Resource definition drilling from dedicated drill drive to commence March quarter 2015 targeting maiden Resource mid year
- Further EM anomaly identified between Savannah and Savannah North, strong EM plate (200m x 200m) located above KUD1530, dipping towards the west

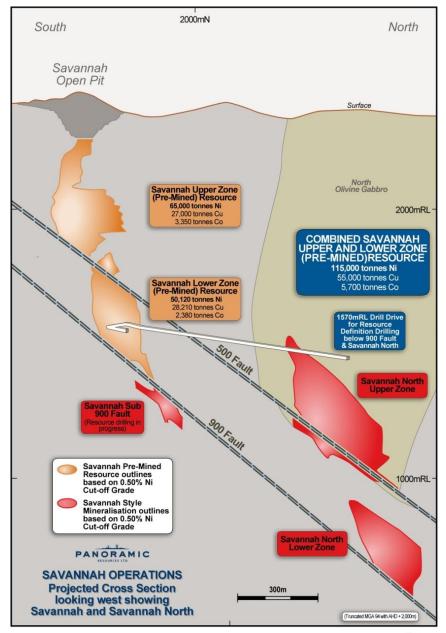


Plan View of Savannah North Project area showing latest drilling & EM information



# Savannah - various options for significant mine life extensions

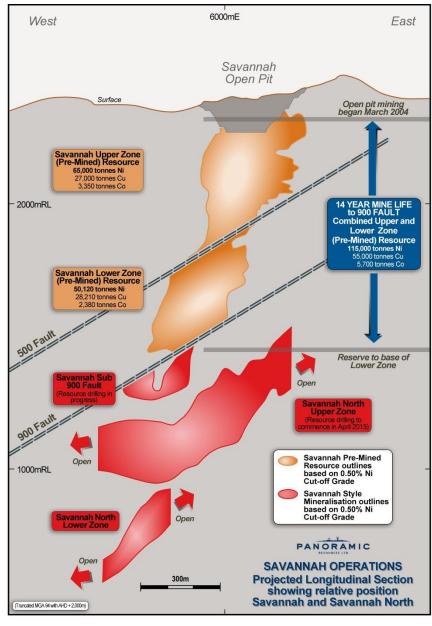
- Below the 900 Fault
- Savannah North
- Between Savannah and Savannah North
- North Olivine Gabbro



Cross section looking west

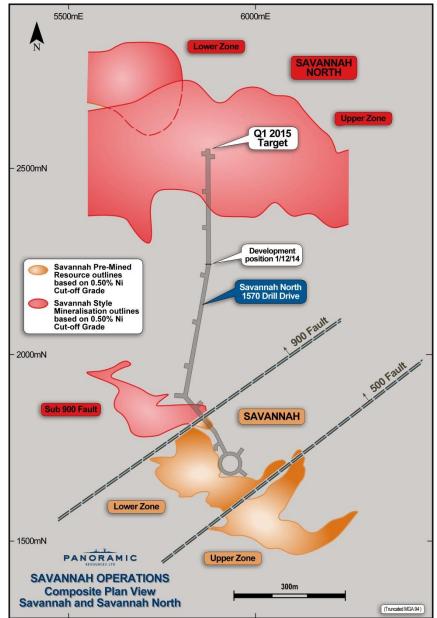


# Savannah - options for potential mine life extensions



Long section looking North

Plan view looking down



## Lanfranchi - FY2015

- Production guidance
  - Nickel ~11-12kt Ni
- Exploration Activities
  - Test down-plunge extensions of existing orebodies
  - Drill out new discovery down-plunge Schmitz
  - Test other known EM targets
  - Exploration budget ~\$3M (under revision)
- Cost Savings
  - Lock in current savings
  - Find additional savings
- Productivity
  - Optimise production





# Major exploration success - down-plunge Schmitz

### **Key Points**

- Significant new mineralisation intersected down-plunge of Schmitz
- Three significant high-grade (+5% Ni) mineralised zones discovered to-date
- Historic production of ~53,000t Ni from orebodies in the Schmitz channel including:
  - Schmitz 33,552t Ni
  - Skinner 13,678t Ni
  - Winner 6,250t Ni
- New intersections are only ~300m from existing Deacon development
- Off-take agreement in place with Nickel West to February 2019
- Minimum annual tonnage 350,000t ore, first right of refusal over additional tonnage

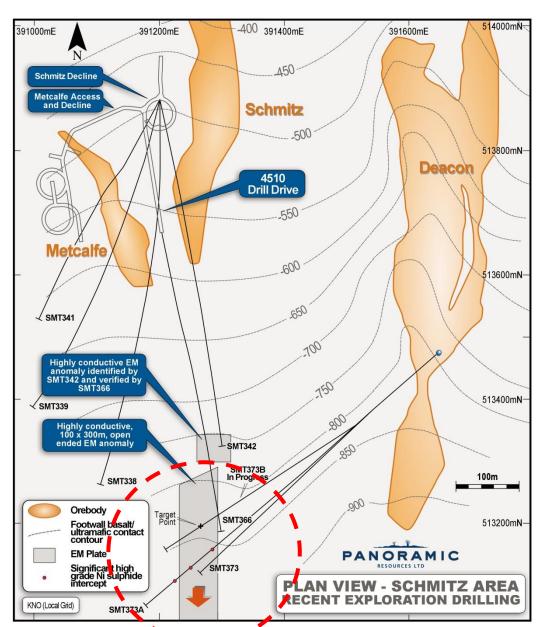


High-grade drill core from SMT373A intercept from 482.90m (6.10m @ 5.73% Ni)

# Schmitz - high-grade (+5% Ni) mineralisation intersected

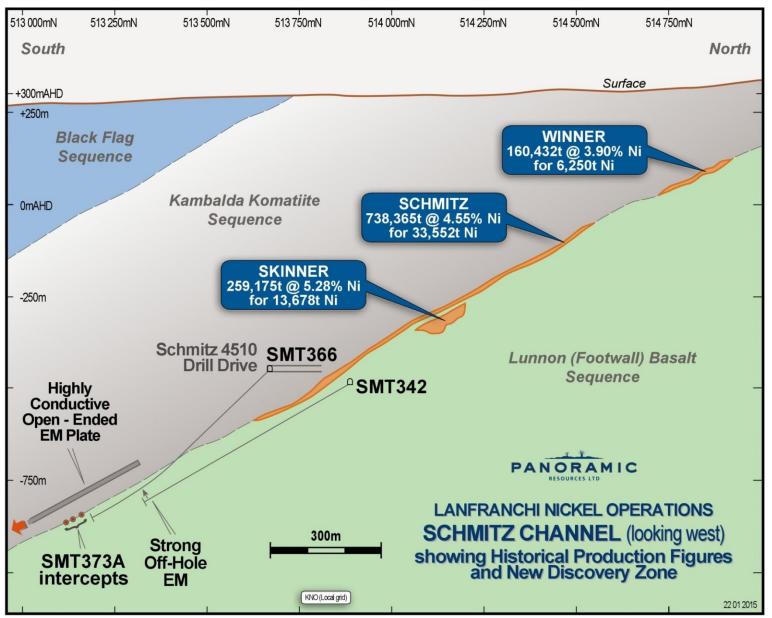
#### **Details**

- Potentially significant high-grade mineralisation intersected downplunge of Schmitz
- Discovery hole SMT373A intersected several zones of high-grade mineralisation
- Significant assay results include:
  - 6.10m @ 5.73% Ni from 482.90m
  - 6.80m @ 5.02% Ni from 525.30m
  - 6.50m @ 6.11% Ni from 550.54m
- EM anomaly modelled as a single highly-conductive 300 x 100m conductor, open to the south
- Second daughter hole SMT373B currently underway





# Schmitz down-plunge discovery - cross section



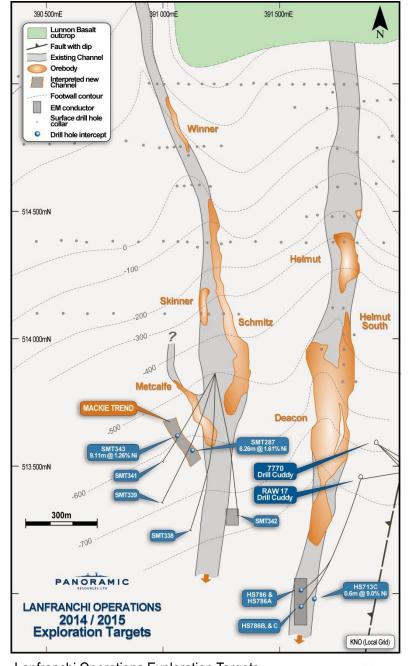
# Lanfranchi - FY2016 and beyond

### **Jury-Metcalfe Orebody**

- Reserve 238,000t at 1.58% Ni, 3,800t Ni
- More attractive terms for Jury-Metcalfe ore agreed with BHP Nickel West
- Decline to access Jury-Metcalfe approved
- 6-9 months of pre-development, cost \$3M
- Decision on production to be made in Q1/Q2 2015 (Ni price dependent)
- Steady state production 15,000t ore/month
- Mine life ~16 months

### **Post June 2015 production**

- Now subject to review pending additional drilling on new high-grade discovery down-plunge Schmitz
- Deacon orebody depleted by June 2015



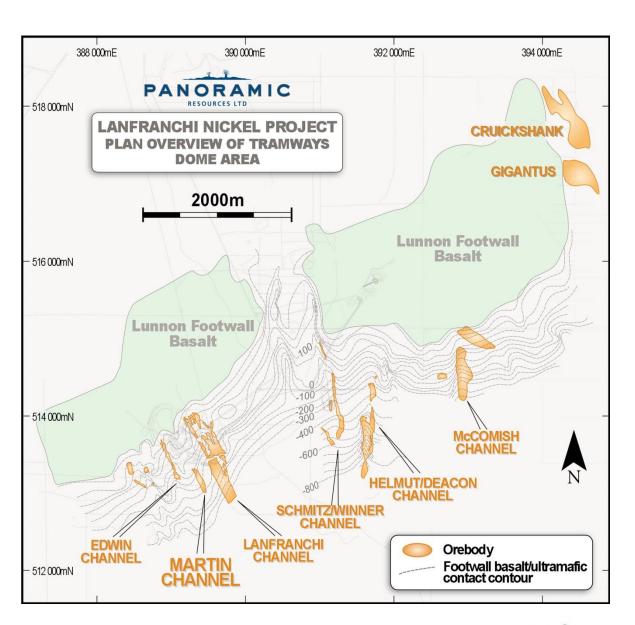
Lanfranchi Operations Exploration Targets



## Potential channel extensions/new channels

- Schmitz Channel
   700m below surface
   9,000t Ni per 100m vertical\*
- Lanfranchi Channel
   500m below surface
   6,000t Ni per 100m vertical\*
- Helmut/Deacon Channel
   900m below surface
   20,000t Ni per 100m vertical\*
- Martin Channel
- Possible East Deacon Channel

\*Historical Ni tonnes per vertical metre



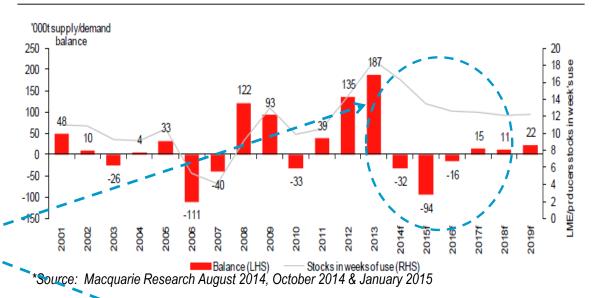


# Nickel market - price outlook remains positive

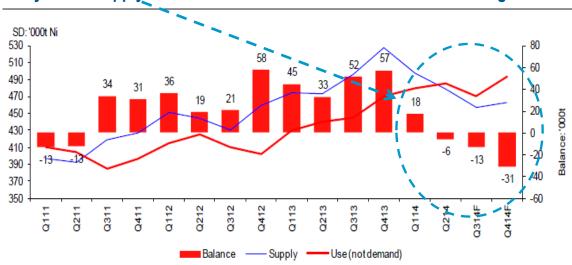
- Price rallied 70% immediately after the Indonesian ban was enforced
- Peaked at US\$10.00/lb 1 Apr 2014
- Currently ~US\$6.78/lb 2 Feb 2015
- Supply/demand deficit building
- Macquarie Bank forecasting US\$10.00/lb-US\$12.50/lb between FY15-2019\*

Most forecasters predicting Ni prices above current levels in the medium/ longer term

#### Global nickel market supply/demand balance and stocks



#### Quarterly nickel supply/demand balance - Q4 2014 sees a start of the big deficits



\*Source: Macquarie Research August 2014, October 2014 & January 2015



# **Diversification - growth opportunities**

#### Gold

- 2.5Moz Resource base
- Two development ready projects
- Undertaking strategic review of possible gold spin-out or trade sale to realise value

#### PGM

- Thunder Bay North Rio to spend up to \$C20 million to earn 70% over 5 years
- Panton potential operating synergies with Savannah

### Exploration upside

- Near mine recent success includes Savannah North and down-plunge Schmitz
- Greenfields

### M&A

- Base metals, gold, PGM
- Focusing on quality assets and near term cashflow



Hard Rock Café at Gidgee



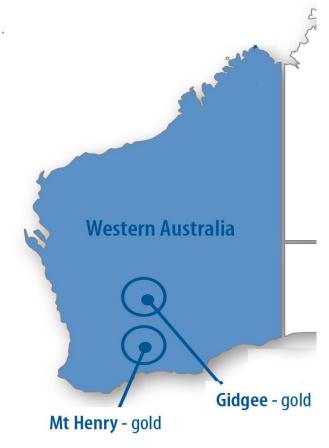
Summer drilling at Thunder Bay North



# **Our gold business**

Gidgee Au Resources 1.3Moz at 2.3g/t Au

Mt Henry Au Resources 1.2Moz at 1.18g/t Au



- Two advanced projects
- Total Resources of 2.5Moz Au\*
- Potential to produce 150-200k oz pa
- Undertaking strategic review of possible gold spin-out or trade sale to realise value



Drilling at Mt Henry



Gidgee Mill



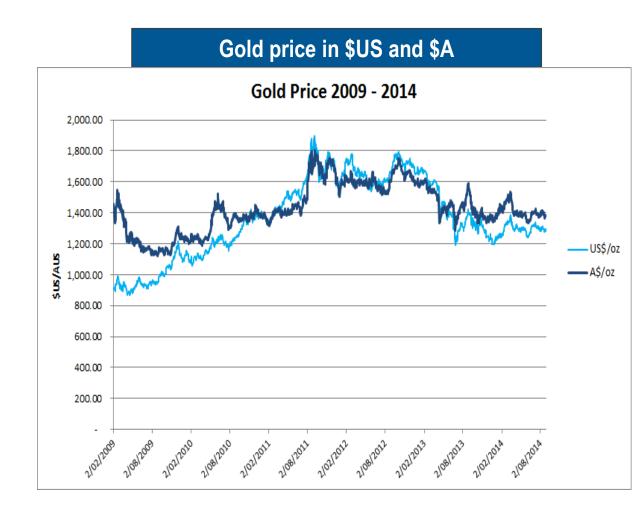
### **Gold market**

#### Short term

- Gold price has been strong recently
- Spot US\$1,283/oz/A\$1,651/oz 2 Feb 15
- Refocus on gold equities by investors
- Number of recent gold transactions
- Corporate activity building

#### Medium/Long term

- Many forecasters still quoting US\$1,200-1,300/oz longer term
- A\$1,400-1,530/oz at A\$:US\$ 0.85
- We use A\$1,500/oz for project evaluation (US\$1,300/oz at US\$0.85)



Industry forecasters are predicting US\$1,200-US\$1,300/oz Au

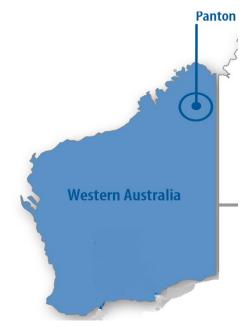


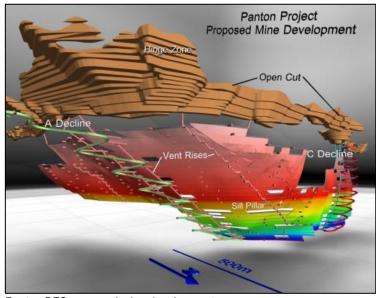
## **Our PGM business**

Panton Pt, Pd, Au, Ni Resources\* 14.3Mt at 2.19g/t Pt, & 2.39g/t Pd

## Thunder Bay North Pt, Pd, Ni Resources\* 0.7Moz of Pt+Pd

- Two advanced projects
- Total Resources of 2.8Moz Pt+Pd\*
- Potential for combined production of 150k+ oz pa Pt+Pd
- Rio earning in at Thunder Bay North
- Potential synergies between Panton and Savannah





Panton BFS proposed mine development



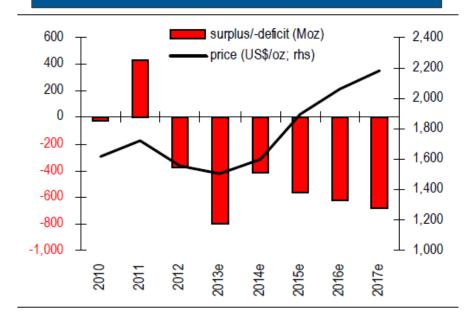


Winter drilling at Thunder Bay North



### **PGM** market

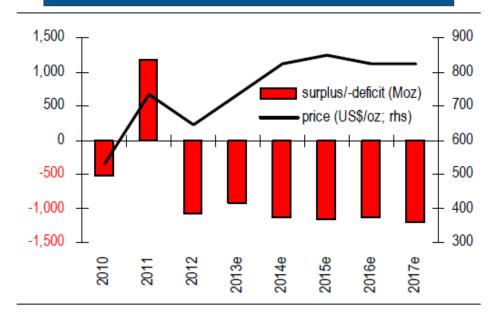
#### Platinum market balance



### **Key points**

- Limited new supply to meet forecast deficits
- Ongoing structural supply issues in Africa
- Price rallied strongly in 2014
- Spot Pt US\$1,238/oz 2 Feb 2015

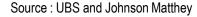
#### Palladium market balance



### **Key points**

- Positive demand growth in China and US
- Limited ability to substitute
- Price traded up to a <u>14 year high in 2014</u>
- Spot Pd US\$769/oz 2 Feb 2015

Industry forecasters are predicting Pt & Pd prices significantly above current levels in the medium/longer term





# **Corporate strategy**

### What we are good at?

- Discovering new ore bodies
- Developing & operating underground mines
- Managing costs
- Returning surplus cash to shareholders
- Buying unloved assets & maximising value
- Creating a good corporate and operating culture

#### Which commodities should we be in?

- Base Metals Ni, Cu, Zn, Pb, Sn
- PGMs Pt, Pd
- Gold



#### What we will do?

- Operate safely
- Extend mine life of our nickel assets
- Acquire and develop new assets and move up the quality curve (ie. higher grade, longer life, lower cost)
- Generate strong cash flow to be self funding & pay dividends
- Attract and retain personnel





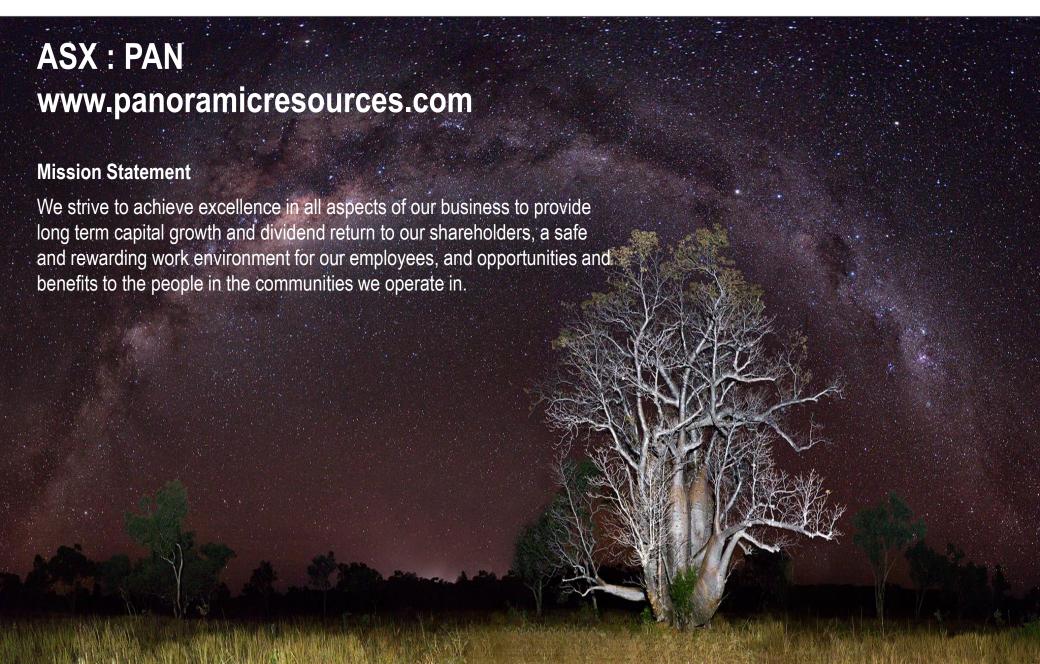


# FY2015 summary

Safety	Improve safety performance
Nickel	<ul> <li>Production guidance 20-21,000t Ni</li> <li>Maintain focus on costs and productivity</li> <li>Maximise operating margin</li> </ul>
PGM	<ul><li>Thunder Bay North Earn-in and JV</li><li>Advance Panton</li></ul>
Gold	<ul><li>Deliver Feasibility Studies</li><li>Trade sale or IPO to realise value</li></ul>
Exploration	<ul> <li>Savannah - below 900F maiden Resource</li> <li>Savannah North - maiden Resource</li> <li>Lanfranchi - test extent of down-plunge Schmitz high-grade discovery</li> </ul>
Corporate	<ul> <li>Maintain dividend (subject to A\$ Ni price &amp; CAPEX requirements)</li> <li>Return to S&amp;P/ASX300</li> </ul>
Growth	Extend nickel mine life



# Thank you



# **Additional information & Appendices**

Resources, Reserves, Relevant Disclosures and Competent Persons Statements





# Jury-Metcalfe / Schmitz / Martin

#### Schmitz Channel

Resource 72,000t at 3.84% Ni

Strong EM conductor 300m south of current Resource, has been confirmed as high-grade mineralisation

**300m x 100m conductor**, open to south ~300m from the Deacon decline

### Jury-Metcalfe

Resource 312,000t at 1.94% Ni Open up and down plunge

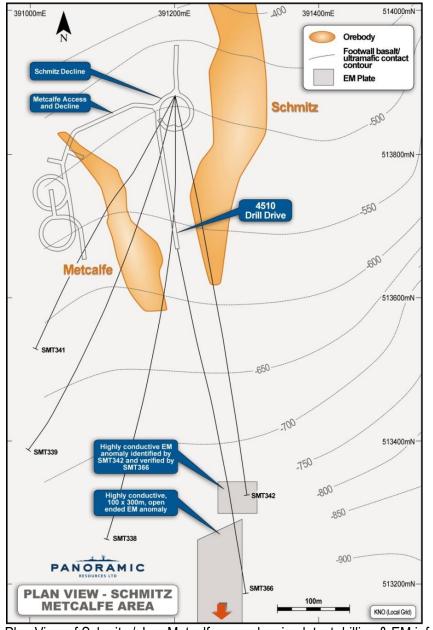
#### Martin Channel

Resource 54,000t at 3.66% Ni

**Strong EM conductor** 200m down-plunge Martin Resource

100m x 130m conductor

Martin is 250m west of Lanfranchi Channel



Plan View of Schmitz / Jury Metcalfe area showing latest drilling & EM information



# Five year financials - summary

# After two tough years

- Revenue increasing
- Underlying EBITDA improving
- Cashflow stronger
- Unit costs down
- Cash balance building
- Dividend maintained

Description	FY2014	FY2013	FY2012	FY2011	FY2010
(Units in A\$ million unless otherwise stated)	F12014	F12013	FIZUIZ	FIZUII	
Financials					
Total net revenue (incl. interest)	\$238.2	\$181.8	\$233.0	\$249.6	\$287.8
Cost of sales before D&A	-\$164.9	-\$154.3	-\$169.3	-\$149.3	-\$139.1
Underlying Nickel Division EBITDA	\$73.3	\$27.5	\$59.5	\$94.1	\$144.3
Depreciation and amortisation (D&A)	-\$59.7	-\$54.4	-\$51.4	\$46.1	-\$52.7
Profit/(Loss) before tax and impairment	\$2.0	-\$39.0	-\$14.1	\$36.3	\$71.1
Underlying net loss after tax	-\$0.1	-\$26.1	-\$13.2	\$24.5	\$51.1
Reported net profit/(loss) after tax	-\$9.3	-\$31.7	-\$18.2	\$20.6	\$56.2
Cash flow from operating activities before tax	\$54.0	\$23.0	\$38.2	\$61.5	\$131.8
Cash, term deposits and current receivables	\$96.7	\$44.9	\$79.0	\$126.4	\$158.3
A\$ average cash nickel price	\$7.52/lb	\$7.23/lb	\$8.48/lb	\$11.01/lb	\$9.98/lb
Payable Nickel Cash Cost, including royalties	\$5.41/lb	\$6.18/lb	\$6.01/lb	\$6.25/lb	\$5.46/lb
C1 Cash Cost (Ni in concentrate)	\$3.32/lb	\$3.84/lb	\$3.85/lb	\$3.80/lb	\$3.29/lb
Dividend (cents/share)	2.0	1.0	2.0	6.0	16.5
Nickel produced/sold					
Group nickel production (dmt)	22,256	19,561	19,791	17,027	17,458

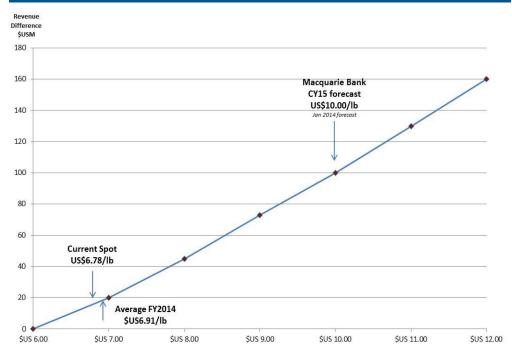
# Leveraged to nickel price

FY14 financials recut at different A\$ Ni prices	FY14 Actuals A\$7.52/lb (\$M)	A\$9.00/lb* (\$M)	A\$10.00/lb* (\$M)	A\$11.00/lb* (\$M)	A\$12.00/lb* (\$M)
Net Revenue	\$238.2	\$275.6	\$307.4	\$338.7	\$371.0
Nickel Division EBITDA	\$73.3	\$108.5	\$139.2	\$169.4	\$200.4
	<b>Ψ/3.3</b>				
Underlying Net Profit	Nil	\$26.4	\$48.0	\$69.3	\$91.3
Total Cash Flow	\$40.8	\$85.1	\$113.6	\$141.7	\$170.8
Operating Cash Flow	\$54.0	\$94.0	\$122.5	\$150.6	\$179.8

Note: This table is based on actual FY2014 physicals, costs and A\$ Ni assumptions and should only be used for illustration purposes

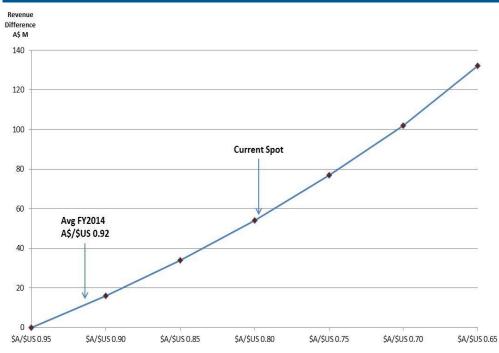
# Leveraged to rising \$US Ni price and falling \$A

## Every US\$1/lb increase in Ni price, adds ~\$US25M pa to revenue



Note: This graph is based on mid-point of guidance for PAN FY2015 nickel production, US\$3.00/lb Cu, US\$13.80/lb Co and is for illustration purposes only

## Every 5 cent drop in \$A adds ~A\$20M pa to revenue



Note: This graph is based on mid-point of guidance for PAN FY2015 nickel production, US\$9.00/lb Ni, US\$3.00/lb Cu, US\$13.80/lb Co and is for illustration purposes only



## Thunder Bay North - Earn-in and Option to JV with Rio

- Rio recently advised they will move to the Earn-in phase
- Rio's decision to progress continues to demonstrate the prospectivity of the Thunder Bay North project

## **Details of the Agreement**

Consolidation of PAN & Rio's PGM projects in Ontario, Canada

The Consolidated Project

Thunder Bay North Project (TBN)
Escape Lake Project (EL)

- Three Phase Agreement
  - i. Exploration Target Generation Rio spent ~C\$440k
  - ii. Earn in Option Rio option to spend up to C\$20M (minimum C\$5M) over 5½ years to earn a 70% interest in TBN
  - iii. Joint Venture Rio 70%, PAN 30%
- PAN granted rights to acquire 100% of EL should Rio not proceed
- Rio brings \$ and world class expertise together with a history of identifying and developing major projects around the world







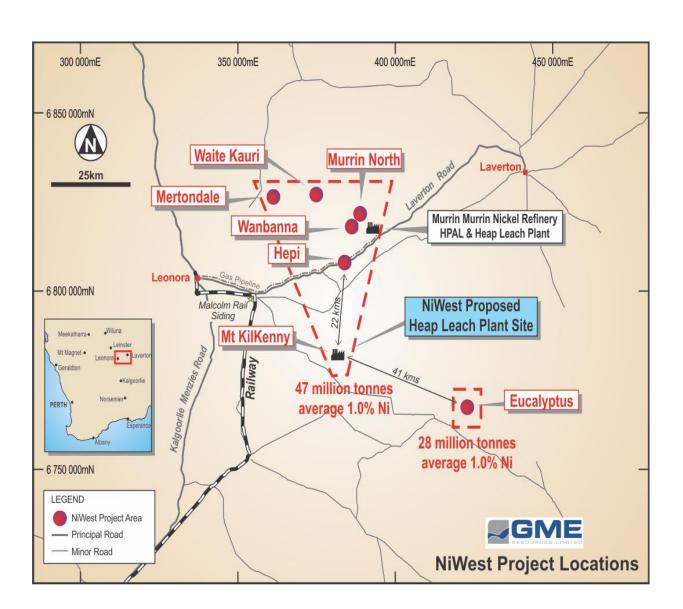
## **GME Resources MoU and strategic placement**

## **Key points**

- Large laterite resource
- Strategically located
- Heap leach potential to minimise Capex and Opex

## **Deal structure**

- ~18.5M shares at \$0.027
- MoU to review data
- Exclusivity to 30 June 2015





# **Appendix 1 - Nickel Resources (Ni,Cu,Co)**

## Savannah, Copernicus, Lanfranchi Resources Table at 30 June 2014

	Equity		Date of	JORC	Measur	ed	Indicate	ed	Inferre	d	Total		Metal
Resource	(%)	Metal	Resource	Compliance	Tonnes	Ni (%)	Tonnes	Ni (%)	Tonnes	Ni (%)	Tonnes	Ni (%)	Tonnes
Savannah Project	100												
		Nickel	Jul-13	2012	1,709,000	1.47	1,386,000	1.53	-	-	3,095,000	1.50	46,300
		Copper				0.79		1.02		-		0.89	27,600
		Cobalt				0.08		0.07		-		0.08	2,400
Copernicus	100												
		Nickel	Jul-10	2004	389,000	1.08	400,000	1.38	23,000	1.01	812,000	1.23	10,000
		Copper				0.66		0.99		0.70		0.82	6,700
		Cobalt				0.04		0.05		0.03		0.04	400
Lanfranchi Project	100	Nickel											
Cruikshank			Apr-11	2004	-	-	2,018,000	1.42	611,000	0.79	2,629,000	1.28	33,600
Deacon			Mar-14	2012	368,000	2.64	156,000	2.29	126,000	1.63	650,000	2.36	15,300
Gigantus			Jul-07	2004	-	-	-	-	652,000	1.63	652,000	1.63	10,600
Helmut South			May-14	2012	2,000	4.86	-	-	-	-	2,000	4.86	100
Helmut South Ext			Apr-14	2012	26,000	3.19	84,000	2.94			110,000	3.00	3,300
John			Jul-07	2004	-	-	-	-	291,000	1.42	291,000	1.42	4,100
Lanfranchi			Apr-14	2012	53,000	4.85	66,000	4.44	40,000	3.98	159,000	4.46	7,100
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
Jury-Metcalfe			Jan-14	2012	-	-	280,000	1.99	31,000	1.46	312,000	1.94	6,000
Schmitz			Aug-14	2012	8,000	6.43	48,000	3.69	16,000	2.95	72,000	3.84	2,800
Winner			Jul-11	2004	-	-	14,000	4.40	-	-	14,000	4.40	600
Total (Equity)		Nickel											156,600
		Copper											34,300
		Cobalt											2,800

# **Qualifying statement and notes**

#### Notes:

Figures have been rounded and therefore may not add up exactly to the reported totals

Resources are inclusive of Reserves

All Savannah Project Resources and Reserves, with the exception of Copernicus have been transitioned to JORC Code 2012 compliance (refer to the relevant JORC 2012 compliance tables in ASX announcement dated 30 September 2014). The Copernicus Project Resources and Reserves remain JORC 2004 compliant

The Resource Cut-off grade at both Savannah and Copernicus is 0.50% Ni

The Resource Cut-off grade at Lanfranchi is 1.00% Ni

### **Competent Persons Statement**

The information in this report that relates to Mineral Resources (excluding the Copernicus Project) is based on information compiled by or reviewed by Paul Hetherington (MAusIMM) for the Savannah Project Resource and Bradley Robinson (MAusIMM) for the Lanfranchi Project Resources. The aforementioned are full-time employees of Panoramic Resources Limited. Mr Hetherington is a Panoramic shareholder. 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 2012 JORC Code"). Both Mr Hetherington and Mr Robinson consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information in this release that relates to Mineral Resources for the Copernicus Project is based on information compiled by or reviewed by Paul Hetherington (MAusIMM). Mr Hetherington is a full-time employee and shareholder 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 they are undertaking to qualify as a Competent Person as defined in the 2004 Edition of the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ("the 2004 JORC Code"). Mr Hetherington consents to the inclusion in the release of the matters based on this information in the form and context in which it appears.



# **Appendix 2 - Nickel Reserves (Ni,Cu,Co)**

## Savannah, Copernicus, Lanfranchi Reserves Table at 30 June 2014

Положия	Equity	Metal	Date of	JORC Compliance	Prove	n	Probab	le	Total	Metal	
Reserve	(%)	Metal	Reserve		Tonnes	(%)	Tonnes	(%)	Tonnes	(%)	Tonnes
Savannah Project											
Upper Zone	100	Nickel	Jul-14	2012	-	-	497,000	1.23	497,000	1.23	6,100
		Copper				-		0.55		0.55	2,800
		Cobalt				-		0.06		0.06	300
Lower Zone	100	Nickel	Jul-14	2012	-	-	1,884,000	1.28	1,884,000	1.28	24,100
		Copper				-		0.80		0.80	15,100
		Cobalt				-		0.07		0.07	1,200
Copernicus O/Pit	100	Nickel	Jul-14	2004	-	-	365,000	1.03	365,000	1.03	3,800
		Copper				-		0.63		0.63	2,300
		Cobalt				-		0.04		0.04	100
Lanfranchi Project	100										
Deacon			Jul-14	2012	-	-	459,000	2.05	459,000	2.05	9,400
Jury-Metcalfe			Jul-14	2012			238,000	1.58	238,000	1.58	3,800
Lanfranchi			Jul-14	2012	-	-	84,000	3.32	84,000	3.32	2,800
Schmitz			Jul-14	2012			35,000	2.31	35,000	2.31	800
Helmut Sth Ext			Jul-14	2012	-	-	126,000	2.01	126,000	2.01	2,500
Total (Equity)		Nickel									53,300
		Copper									20,200
		Cobalt									1,700

# **Qualifying statement and notes**

#### Notes:

Figures have been rounded and therefore may not add up exactly to the reported totals Reserves are inclusive of Resources

The Reserve Cut-off grade at Savannah is 1.0% Ni Equivalent (approximately 0.85% Ni) and at Copernicus is 0.50% Ni
The Reserve Cut-off grade at Lanfranchi is 1.0% Ni

### **Competent Persons Statement**

Information in this release relating to Ore Reserves (excluding the Copernicus Project) has been completed by or reviewed by Lilong Chen (MAusIMM). Mr Chen is a full-time employee and an indirect shareholder of Panoramic. Mr Chen 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 JORC Code. Mr Chen consents to the inclusion in the release of the matters based on his information in the form and context in which it appears. Information in this release relating to Ore Reserves for the Copernicus Project has been completed by or reviewed by Jonathon Bayley (MAusIMM). Mr Bayley is a former 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 2004 Edition of the JORC Code. Mr Bayley 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 Project(s) Resources (Au)**

## Gidgee Project and Mt Henry Project Resources Table at 30 June 2014

	Equity		Date of	JORC	Measu	ıred	Indicate	ed	Inferre	d	Total		Metal
Resource	Equity (%)	Metal	Resource	Compliance	Tonnes	Au (g/t)	Tonnes	Au (g/t)	Tonnes	Au (g/t)	Tonnes	Au (g/t)	(Au oz)
Gidgee Project	100	Gold											
Swan OC			Jun-12	2004	-	-	3,399,000	2.40	327,000	3.51	3,726,000	2.49	298,600
Heron South			Oct-12	2004	-	-	1,000,000	2.31	136,000	1.41	1,136,000	2.20	80,300
Howards			Jul-13	2012	-	-	5,255,000	1.07	716,000	1.01	5,971,000	1.06	204,000
Specimen Well			Jun-12	2004	-	-	289,000	2.06	72,000	1.79	361,000	2.00	23,200
Toedter			Jun-12	2004	-	-	-	-	661,000	1.62	661,000	1.62	34,400
Eagles Peak			Mar-06	2004	-	-	13,000	3.46	-	-	13,000	3.46	1,400
Orion			Mar-06	2004	-	-	22,000	3.04	-	-	22,000	3.04	2,200
Deep South			Mar-06	2004	-	-	20,000	3.02	-	-	20,000	3.02	1,900
Shiraz			Jul-13	2012	-	-	2,476,000	0.84	440,000	0.76	2,916,000	0.83	77,600
Swan UG			Jun-12	2004	-	-	207,000	8.71	125,000	9.02	332,000	8.83	94,200
Swift UG			Jun-12	2004	-	-	-	-	72,000	9.23	72,000	9.23	21,400
Omega UG			Mar-06	2004	-	-	31,000	9.20	-	-	31,000	9.20	9,200
Kingfisher UG			Mar-06	2004	-	-	390,000	6.80	-	-	390,000	6.80	85,300
Wilsons UG			Jul-13	2012	-	-	2,131,000	5.33	136,000	5.97	2,267,000	5.37	391,500
Mt Henry Project	70	Gold											
Selene			Jul-13	2012	-	-	11,491,000	1.17	3,466,000	0.93	14,957,000	1.11	535,900
Mt Henry			Jul-13	2012	-	-	10,487,000	1.27	4,435,000	1.14	14,922,000	1.23	590,800
North Scotia			Jul-13	2012	-	-	250,000	3.11	97,000	1.95	347,000	2.79	31,100
Total (Equity)		Gold			-	•	37,461,000	1.67	10,683,000	1.37	48,144,000	1.60	2,483,100

# **Qualifying statement and notes**

### Notes – Gidgee Project:

Figures have been rounded and therefore may not add up exactly to the reported totals

On the Gidgee Project, Howards, Shiraz and Wilsons Resources have been transitioned to JORC Code 2012 compliance (refer to the relevant JORC 2012 compliance tables in ASX announcement dated 30 September 2014). All other Resources remain JORC 2004 compliant. Individual Project Resources and Reserves are stated on an equity basis.

The Resource Cut-off grade for Swan OC Resource is 0.7 g/t Au, • Eagles Peak 1.2 g/t Au, • Orion 1.3 g/t Au, • Deep South 1.2 g/t Au, • Swan UG 4.0 g/t Au for Indicated resources and 5.0 g/t Au for Inferred resources, • Swift UG is 5.0 g/t Au, • Omega UG 3.0 g/t Au, • Kingfisher UG 3.0 g/t Au, and Wilson UG 2.0g/t Au. For Heron South, Specimen Well and Toedter the Resource Cut-off grade is 0.5 g/t Au.

### **Notes – Mt Henry Project:**

Figures have been rounded and therefore may not add up exactly to the reported totals

All Mt Henry Project Resources have been transitioned to JORC Code 2012 compliance (refer to the relevant JORC 2012 compliance tables in ASX Announcement dated 30 September 2014). All Mt Henry Project Resources are stated on an equity basis.

The Resource Cut-off grade for all Mt Henry Resources is 0.40g/t Au.

#### **Competent Persons Statement**

The information in this release that relates to the Swan OC, Eagles Peak, Orion, Deep South, Swan UG, Swift UG, Omega, 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 Limited in 2012. 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 2004 Edition of the JORC Code. Dr Carras consents to the inclusion in the release of the matters based on this information in the form and context in which it appears.

The information in this release that relates to the Heron South, Howards, Shiraz, Specimen Well, Toedter and Wilsons Mineral Resources is based on information compiled by or reviewed by Andrew Bewsher (AIG) and Ben Pollard (AIG & MAusIMM). The aforementioned are full time employees of BM Geological Services and 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 2004 and 2012 Editions of the JORC Code. The aforementioned both consent to the inclusion in the release of the matters based on this information in the form and context in which it appears.

The information in this report that relates to the Mt Henry Project Mineral Resources is based on information compiled by or reviewed by Andrew Bewsher (MAusIMM). Andrew 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 JORC Code. Mr Bewsher consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.



## **Appendix 4 - Panton PGM Project - Resources**

### Panton PGM Project Resources Table at 30 June 2014

	Equity	Date of	JORC				Grade			Metal	(oz)
Resource	(%)	Resource	Compliance	Tonnage	Pt (g/t)	Pd (g/t)	Au (g/t)	Ni (%)	Cu (%)	Pt	Pd
Top Reef	100	Mar-12	2004								
Measured				4,400,000	2.46	2.83	0.42	0.28	0.08	348,000	400,000
Indicated				4,130,000	2.73	3.21	0.38	0.31	0.09	363,000	426,000
Inferred				1,560,000	2.10	2.35	0.38	0.36	0.13	105,000	118,000
Middle Reef	100	Mar-12	2004								
Measured				2,130,000	1.36	1.09	0.10	0.18	0.03	93,000	75,000
Indicated				1,500,000	1.56	1.28	0.10	0.19	0.04	75,000	62,000
Inferred				600,000	1.22	1.07	0.01	0.19	0.05	24,000	21,000
Total (Equity)				14,320,000	2.19	2.39	0.31	0.27	0.08	984,000	1,081,000

## **Qualifying statement and notes**

### **Notes – Panton Project:**

Figures have been rounded and therefore may not add up exactly to the reported totals

### **Competent Persons Statement**

The information is in this release that relates to the Panton Project Mineral Resource is based on a resources estimate compiled by Ted Coupland who at the time was a Director of Cube Consulting Pty Ltd. and is a Member of the Australian Institute of Mining and Metallurgy. Ted Coupland has more than 10 years' experience which is relevant to the style of mineralisation and type of deposit under consideration and in the activity which he is undertaking and qualifies as a Competent Person as defined in the 2004 Edition of the JORC Code. Mr Coupland consents to the inclusion in the release of the matters based on the information in the form and context in which they appear.



# **Appendix 5 - Thunder Bay North PGM Project - Resources**

### Thunder Bay North Resources Table at 30 June 2014

	Equity	Date of	JORC		Grade								Metal (oz))		
Resource	(%)	Resource	Compliance	Tonnage	Pt (g/t)	Pd (g/t)	Rh (g/t)	Au (g/t)	Ag (g/t)	Cu (%)	Ni (%)	Co (%)	Pt-Eq (g/t)	Pt	Pd
Open Pit	100	Jan-11	2004												
Indicated				8,460,000	1.04	0.98	0.04	0.07	1.50	0.25	0.18	0.014	2.13	283,000	267,000
Inferred				53,000	0.96	0.89	0.04	0.07	1.60	0.22	0.18	0.014	2.00	2,000	2,000
Underground	100	Feb-12	2004												
Indicated				1,369,000	1.65	1.54	0.08	0.11	2.60	0.43	0.24	0.016	3.67	73,000	68,000
Inferred				472,000	1.32	1.25	0.06	0.09	2.10	0.36	0.19	0.011	2.97	20,000	19,000
Total (Equity)				10,354,000										377,000	355,000

## **Qualifying statement and notes**

### **Notes – Open Pit Resource:**

The effective date of this estimate is 11 January 2011, which represents the cut-off date for the most recent scientific and technical evaluation of the deposit. The Resource does not include drilling conducted since 31 May 2010. The Mineral Resource categories under the JORC Code (2004) are the same as the equivalent categories under the (Canadian) CIM Definition Standards for Mineral Resources and Mineral Reserves (2010). The portion of the Mineral Resource underlying Current Lake is assumed to be accessible and that necessary permission and permitting will be acquired. All figures have been rounded; summations within the tables may not agree due to rounding.

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 contained metal figures shown are in situ. No assurance can be given that the estimated quantities will be produced. 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 x 0.3204 + Au g/t x 0.6379 + Ag g/t x 0.0062 + Cu g/t x 0.00011 + Total Ni g/t x 0.000195 + Total Co g/t x 0.000124 + Rh g/t x 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 PlatsolTM 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 Resource:**

The Underground Mineral Resource estimate for the East Beaver Lake extension was prepared by Panoramic personnel by ordinary kriging methods using the same technical and financial parameters as those used by AMEC Americas Limited for the Underground Mineral Resource estimate reported by Magma Metals limited ("Magma") on 6 September 2010. The Underground Mineral Resource is reported at a cut-off grade of 1.94g/t Pt-Eq. The contained metal figures shown are in situ. The platinum equivalency formula is based on assumed metal prices and recoveries and therefore represents Pt-Eq metal in situ. The Pt-Eq formula is: Pt-Eq g/t + Pt g/t + Pd g/t x 0.2721 + Au g/t x 0.3968 + Ag g/t x 0.0084 + Cu g/t x 0.000118 + Sulphide Ni g/t x 0.000433 + Sulphide Co g/t x 0.000428 + Rh g/t x 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%. To account for a portion of the Ni and Co occurring as silicate minerals, 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% x 60.35 - 551.43). The regression formula for Oc in sulphide (CoSx) is: CoSx = Co - (MgO% x 4.45 - 9.25). All figures have been rounded. Summations within the tables may not agree due to rounding. Magma undertook quality assurance and quality control studies on the mineral resource data and concluded that the collar, assay and lithology data are adequate to support resource estimation. The Mineral Resource rategories under JORC (2004) are the same as the equivalent categories under (Canadian) CIM Definition Standards (2005). The Mineral Resource has be

### **Competent Persons Statement**

The information in this release that relates to Open Pit Mineral Resources was compiled by AMEC Americas Limited by Greg Kulla P.Geo (APOG #1752, APEGBC #23492) and David Thomas, P.Geo, MAusIMM (APEGBC #149114, MAusIMM #225250), both full time employees of AMEC Americas Limited at the time of the resource estimate. The aforementioned have sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activities undertaken to qualify as Competent Persons as defined in the 2004 Edition of the JORC Code and independent qualified persons as this term is defined in Canadian National Instrument 43-101.

The information in this release that relates to underground Mineral Resources was prepared by Guoliang Leon Ma P.Geo and Allan MacTavish P.Geo, both full time employees of Panoramic PGM (Canada) Limited, a wholly owned subsidiary of Panoramic Resources Limited. Both the aforementioned have sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activities undertaken to qualify as Competent Persons as defined in the 2004 Edition of the JORC Code and qualified persons as this term is defined in Canadian National Instrument 43-101. The aforementioned persons consent to the inclusion in the release of the matters based on their information in the form and context in which it appears.

