



Leverage to Battery Metals

Australian Nickel Conference

Peter Harold, Managing Director 17 October 2017

www.panoramicresources.com

ASX: PAN

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.





Battery Revolution

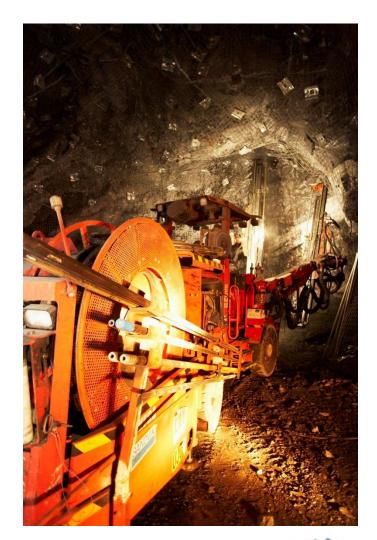
Metal Price Outlook

Savannah Ni, Cu, Co

Savannah comparisons

Corporate

Summary



Battery Revolution

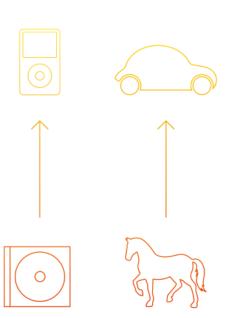




What is a Disruption?

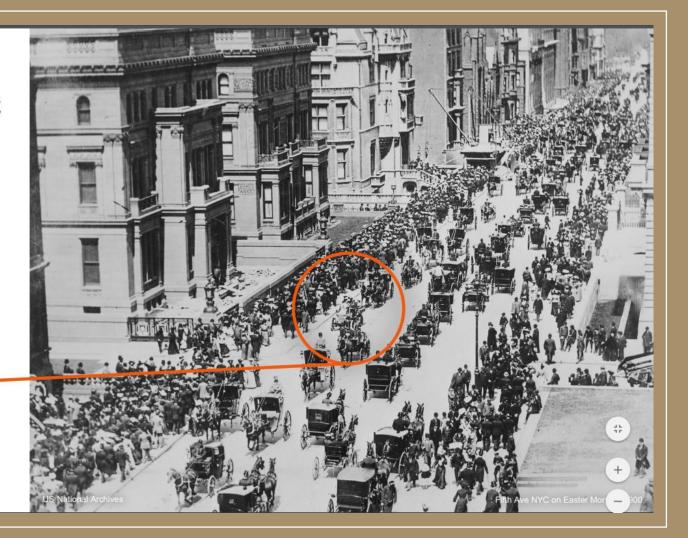
when a new product or service helps create a new market

significantly weaken, transform, or destroy an existing product, market category / industry



5th AVE NYC 1900

Where is the car?



Copyright @ 2016 Tony Seba

5th AVE NYC 1913

Where is the horse?



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1. Electric Motor - 5X more Energy Efficient

Energy Efficiency



100% © TonySeba 2015

17 - 21%

90 - 95%



Internal Combustion Engine





13

2. EVs are 10X cheaper to charge/fuel

- It costs \$15,000 to fill up a (gas) Jeep
 Liberty over five years (Consumer Reports)
- An Electric Jeep Liberty would cost \$1,565
 in electricity
- Improvements in power electronics will increase 10X

Assumptions:

12,000 miles/year

Tesla Roadster: 4.6 miles per kWh.

Ave retail electricity in the U.S.: 12 ¢/kWh

5 year-cost = (60,000 miles * 0.12 \$/kWh) / 4.6 miles/kWh = \$1,565.



3. EVs: 100X fewer Moving Parts

ICE (Gas) Vehicle

2,000+ moving parts (1)

Electric Vehicle (EV)

18 moving parts (1)

Transmission, driveshaft, clutch, valves, differentials, pistons, gears, carburetors, crankshafts...





- EVs 10X-100X cheaper to maintain!
- Tesla: Infinite Mile Warranty! (2)

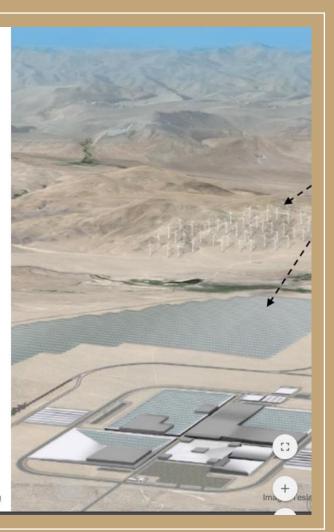
Tesla's Battery GigaFactory

- \$5 Billion investment (6,500 jobs)
- Battery pack output: 50 GWh year
 - → 500,000 cars/year
- Double world battery production

Reduce battery pack costs by



Tech improvement. "Tesla expects to increase pack capacity by roughly 5% per year." (1)



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Sources: Tesla, (1) ChargeDevs Mag

Battery Megafactories are coming!

- BYD plans to add 6 GWh every year.
 - Could ramp up to 34 GWh by 2020 matching
 Tesla's 35 GWh (1)
- Foxconn and LG Chem could add combined
 22 GWh (2)
- Nissan: 4.5 GHh
- Samsung SDI, TDK, Apple, Bosch, VW, etc.

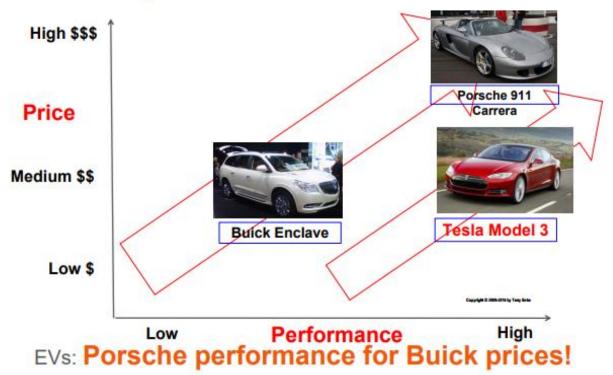
Tech Cost Curve could accelerate!



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Sources: (1) Reuters, (2) Benchmark Mineral

EVs Shift the Price/Performance equation: Disrupt the BASIS of COMPETITION



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OK, SO THE EV IS DISRUPTIVE How long will the transition take?

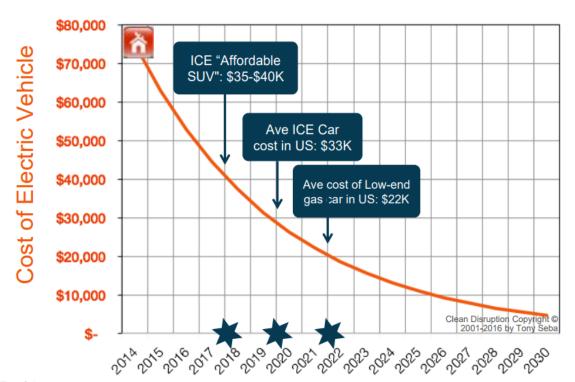






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Disruption from Above: Cost of EV with 200-mile (320 Km) range



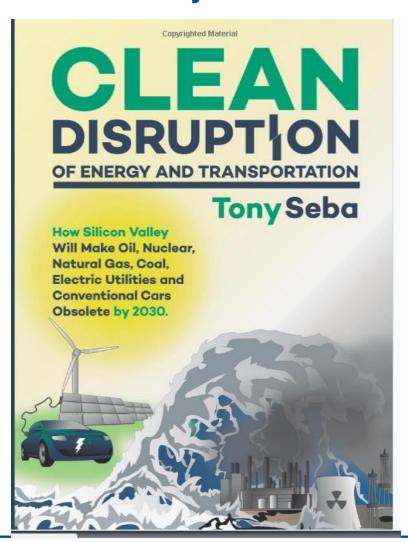
Assumptions:

4 miles/kWh, 50kWh batteries, 16% yearly improvement in battery costs, EV Costs = 3X cost of battery

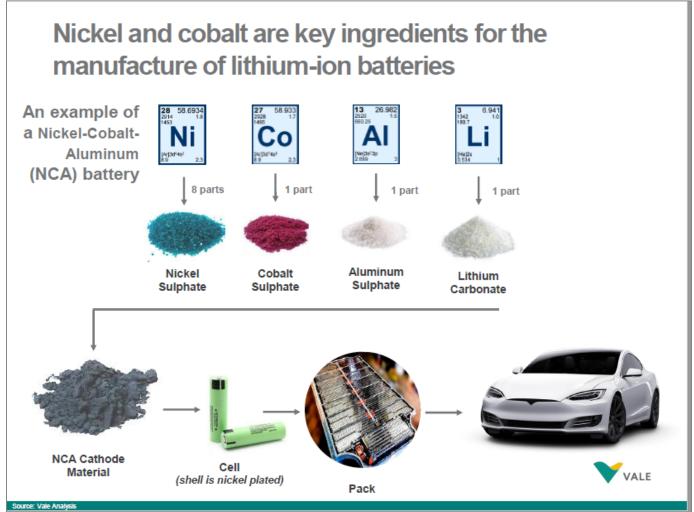
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Source: Clean Disruptio

"Conventional cars obsolete by 2030"



Battery metals

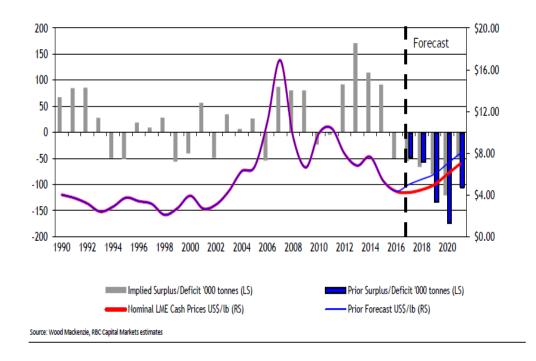


METAL PRICE OUTLOOK





Nickel price



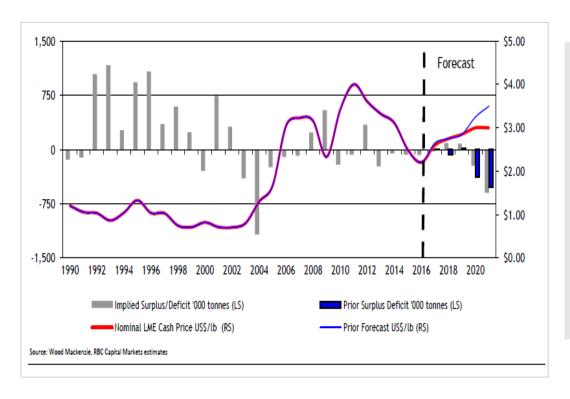
- Ni Price as at 16 October 2017
 - US\$5.32/lb LME cash
- RBC Price Forecasts (US\$/Ib)*

2018	\$4.50
2019	\$5.00
2020	\$6.00
2021	\$7.00

Long Term (Real 2017 \$) \$8.00 2022 and beyond

^{*}Source document: RBC Capital Markets Global Metals & Mining Q3/2017 Outlook – 28 June 2017

Copper price



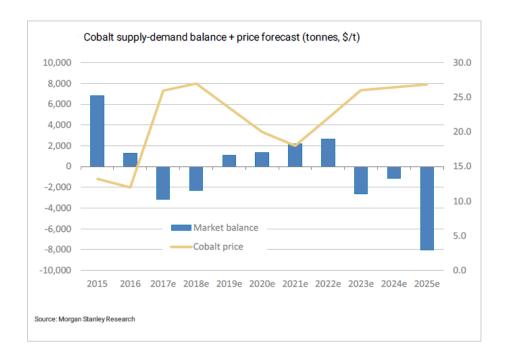
- Cu Price as at 16 October 2017
 - US\$3.18/lb LME cash
- RBC Price Forecasts (US\$/lb)*

	/ D	10047 6\ 60.00
2021		\$3.00
2020		\$3.00
2019		\$2.85
2018		\$2.75

Long Term (Real 2017 \$) \$2.85 2022 and beyond

*Source: RBC Capital Markets Global Metals & Mining Q3/17 Outlook – 28 June 2017

Cobalt price



- Co Price as at 16 October 2017
 - US\$29.30/lb (99.3% Co low)

Morgan Stanley*

- Since 2000, Co price has averaged US\$20/lb (real 2017\$).
- Demand growth from EV's positive price pressure
- Long term forecast US\$23/lb (real 2017\$)



^{*}Source: Morgan Stanley Research "Commodity Matters, Cobalt, Measured" – 28 June 2017

SAVANNAH - the journey continues

Large Resource, Long Life, Low Cost





Savannah - summary

Combined Resources at Savannah*

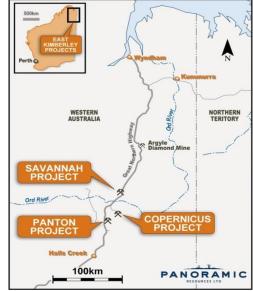
- **226,400t Ni**
- 104,700t Cu
- 15,300t Co

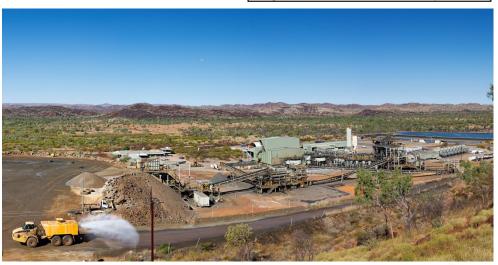
Assets

 Underground mine, 1Mtpa processing plant, mobile mining fleet & associated infrastructure

History

- Operated continuously for 12 years
- 8.5Mt ore milled
- 95kt Ni, 53kt Cu, 5kt Co of metal
- Care and maintenance from May 2016





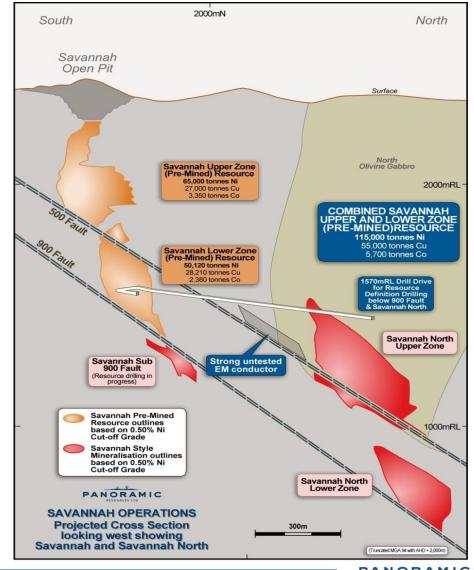
Savannah North

Upgraded Resource*

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

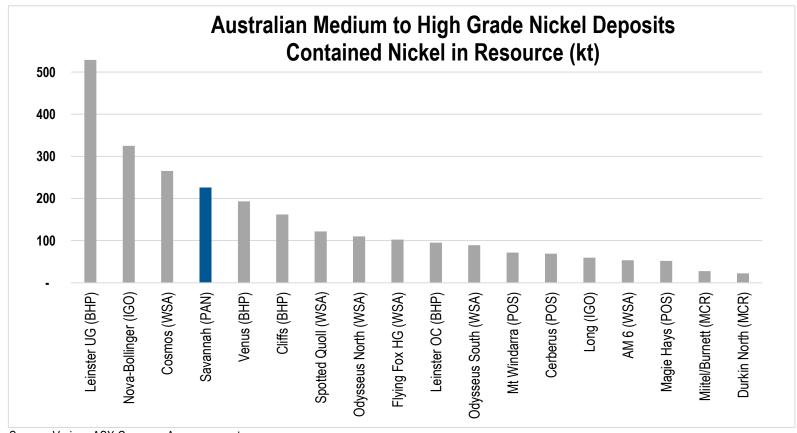
Key Points

- ~500 metres from existing decline
- July 2017 Feasibility Study Optimisation:
 - ~8.5 year mine life
 - ~11,000t Ni, ~5,800t Cu, ~760t Co pa
 - Short development timeframe
 - Relatively low re-start CAPEX
 - Competitive OPEX
- Exploration upside

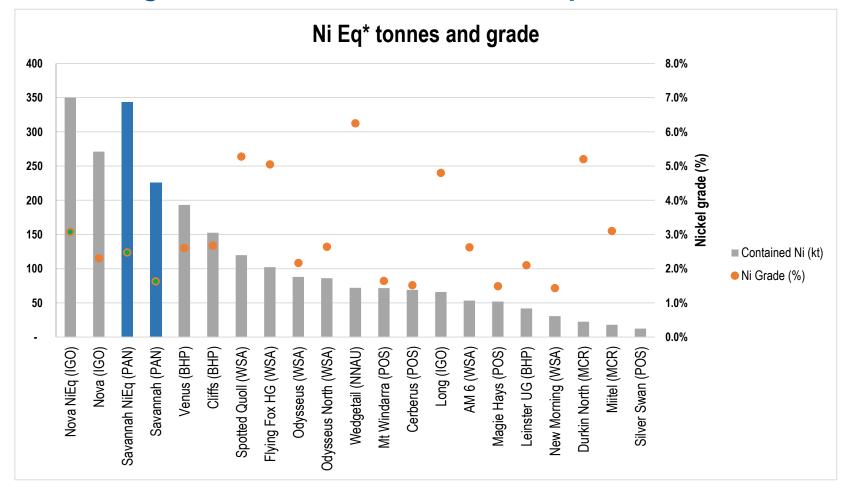


Savannah against its peers

- Savannah is the fourth largest contained sulphide nickel in Western Australia
- Savannah has the size and scale



Savannah grade and metal contained comparison

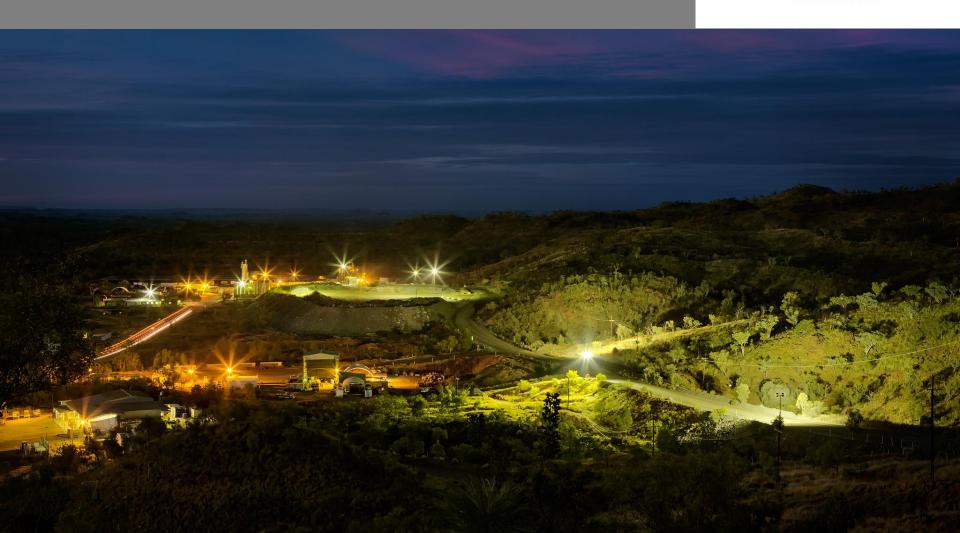


^{*}Panoramic internal calculations using Ni US\$5.00/lb, Cu US\$2.95/lb, Co US\$18.00/lb



CORPORATE





Corporate directory

Capital Structure and	Enterprise Value
ASX Ticker	ASX:PAN
Shares on issue	428.6M
Share Price	\$0.41 (16 October 2017)
Market Cap	~\$176M
Cash	~\$10.7M (30 June 2017)
Bank debt	Nil
Enterprise Value	~\$165M

Significant Shareholder (at 30 Sep	otember 2017)
Zeta Resources Limited	27.5%
Commonwealth Bank of Australia	5.43%

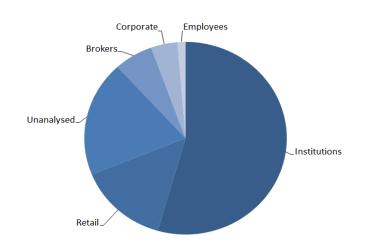
Volume	
30-day average daily volume	405,000
90-day average daily volume	550,000

Brian Phillips Non Executive Chairman Peter Harold Managing Director John Rowe Non Executive Director Peter Sullivan Non-Executive Director

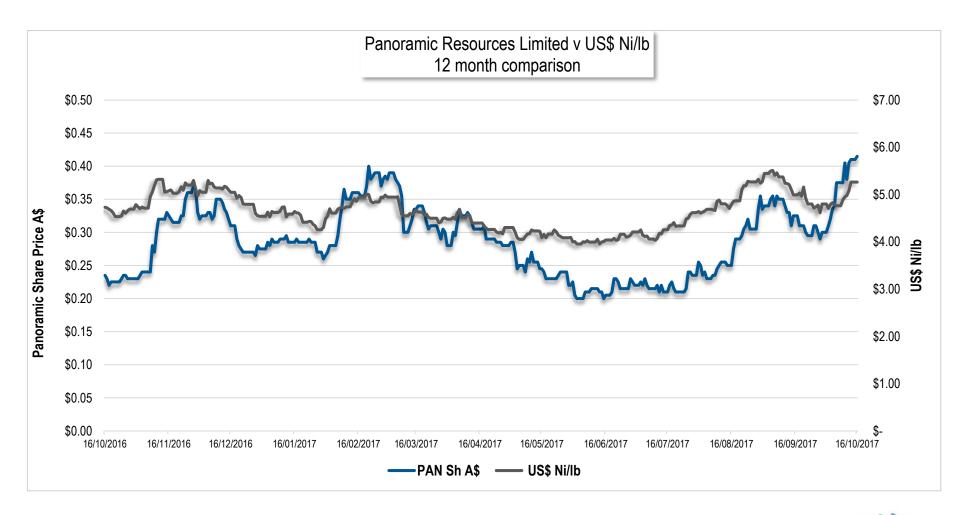
CFO/Company Secretary

Shareholder spread +50% institutional

Trevor Eton



Highly leveraged to nickel price

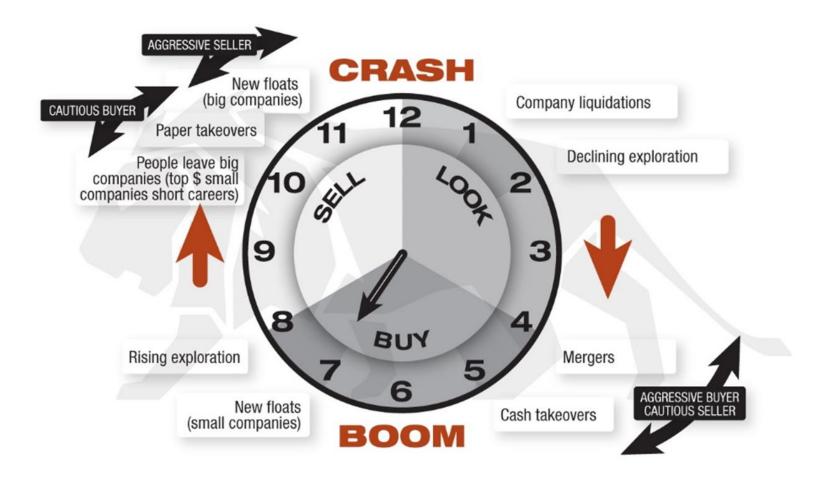


Panoramic – A full house

- ✓ Savannah is a significant Australian base metal project
 - 226,000t nickel
 - 105,000t copper
 - 15,300t cobalt
 - financially robust, +8 year mine life
 - Low re-start capex
 - Short timeframe to production
- ✓ Panoramic has a house full of commodities leverage to Ni, Cu, Co, Au and PGMs
- ✓ Excellent potential for further exploration success and mine life extension
- ✓ Proven management team that will drive value



Investment in Resources – Timing is right







Appendices



Note: further 2012 Edition JORC compliance tables are referenced in the PAN ASX announcement dated 30 September 2017



NICKEL - MINERAL RESOURCES AS AT 30 JUNE 2017

Resource	- Consider	Metal	JORC	Measu	ıred	Indicat	ed	Inferr	ed	Tota	al
Resource	Equity	Metai	Compliance	Tonnes	(%)	Tonnes	(%)	Tonnes	(%)	Tonnes	(%)
Savannah Project											
Savannah (above 900)	100%	Nickel	2012	1,275,000	1.51	759,000	1.20	-	-	2,034,000	1.39
		Copper			0.87		0.90		-		0.88
		Cobalt			0.07		0.07		-		0.07
Savannah (below 900)	100%	Nickel	2012	780,000	1.64	125,000	1.72	-	-	905,000	1.65
		Copper			0.76		0.75		-		0.76
		Cobalt			0.10		0.09		-		0.10
Savannah North (Upper)	100%	Nickel	2012	-	-	4,229,000	1.64	1,759,000	1.25	5,987,000	1.53
		Copper			-		0.65		0.49		0.60
		Cobalt			-		0.12		0.10		0.11
Savannah North (Lower)	100%	Nickel	2012	-	-	2,697,000	1.96	853,000	2.02	3,549,000	1.97
		Copper			-		0.98		0.93		0.97
		Cobalt			-		0.14		0.13		0.14
Savannah North (Other)	100%	Nickel	2012	-	-	242,000	2.22	493,000	1.67	735,000	1.85
		Copper			-		0.50		0.53		0.52
		Cobalt			-		0.14		0.11		0.12
Lanfranchi Project											
Cruikshank	100%	Nickel	2004	-	-	2,018,000	1.42	611,000	0.79	2,629,000	1.28
Deacon	100%	Nickel	2012	89,000	2.99	-	-	134,000	1.70	224,000	2.22
Gigantus	100%	Nickel	2004	-	-	-	-	652,000	1.63	652,000	1.63
Helmut South Ext	100%	Nickel	2012	21,000	4.54	29,000	2.87	-	-	50,000	3.59
John	100%	Nickel	2004	-	-	-	-	291,000	1.42	291,000	1.42
Lanfranchi	100%	Nickel	2012	40,000	4.12	55,000	4.40	63,000	3.49	158,000	3.97
Martin	100%	Nickel	2012	-	-	47,000	3.58	7,000	4.16	54,000	3.66
McComish	100%	Nickel	2004	-	-	-	-	992,000	1.49	992,000	1.49
Metcalfe	100%	Nickel	2012	-	-	280,000	1.99	111,000	1.35	391,000	1.81
Schmitz	100%	Nickel	2012	30,000	4.92	23,000	3.93	16,000	2.95	69,000	4.14
Lower Schmitz	100%	Nickel	2012	-	-	51,000	5.60	79,000	4.80	131,000	5.11
Winner	100%	Nickel	2004	-	-	14,000	4.40	-	-	14,000	4.40
		Nickel									
Total (Equity)		Copper									
		Cobalt									

NICKEL - MINERAL RESOURCES AS AT 30 JUNE 2017

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
- ·Lanfranchi Project Resource cutoff grade is 1.00% Ni

Cross references to previous market announcements:

- •Savannah (above 900) refer ASX announcement dated 30 September 2016 titled "Mineral Resources and Ore Reserves at 30 June 2016"
- •Savannah (below 900) refer ASX announcement dated 30 September 2015 titled "Mineral Resources and Ore Reserves at 30 June 2015"
- •Savannah North refer ASX announcement dated 24 August 2016 titled "Major Resource Upgrade for Savannah North"
- •Cruickshank refer ASX announcement dated 28 April 2011 titled "Cruickshank Resource Upgraded 26% to 33,560t Ni"
- Deacon, Helmut South Ext, Lanfranchi, Metcalfe refer ASX announcement dated 30 September 2016 titled "Mineral Resources and Ore Reserves at 30 June 2016"
- •Gigantus, John, McComish, Winner refer ASX announcement dated 12 October 2011 titled "Business Review 2011"
- •Martin refer ASX announcement dated 13 September 2013 titled "Resources and Reserves at 30 June 2013 and Exploration Update"
- •Schmitz refer ASX announcement dated 30 September 2015 titled "Mineral Resources and Ore Reserves at 30 June 2015"
- •Lower Schmitz refer ASX announcement dated 28 April 2016 titled "Quarterly Report for the period ending 31 March 2016"

No New Information or Data

The 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.

NICKEL - MINERAL RESOURCES AS AT 30 JUNE 2017

Reserve	Cauita	Metal	JORC	Prove	en	Probal	ole To		ıl	Metal			
Reserve	Equity	Metai	Compliance	Tonnes	(%)	Tonnes	(%)	Tonnes	(%)	Tonnes			
Savannah Project													
Above 900 Fault	100%	Nickel	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			
Savannah North	100%	Nickel	2012	-	-	6,650,000	1.24	6,650,000	1.42	94,500			
		Copper			-		1.28		0.61	40,900			
		Cobalt			-		0.10		0.10	6,700			
Lanfranchi Project													
Deacon	100%	Nickel	2012			42,000	2.67	42,000	2.67	1,100			
Metcalfe	100%	Nickel	2012			113,000	1.57	113,000	1.57	1,800			
Lanfranchi	100%	Nickel	2012			11,000	2.56	11,000	2.56	300			
Schmitz	100%	Nickel	2012			15,000	2.96	15,000	2.96	500			
Helmut Sth Ext	100%	Nickel	2012			27,000	2.19	27,000	2.19	600			
	Nickel									116,800			
Total (Equity)		Copper	Copper										
	Cobalt												

Notes:

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

Cross references to previous market announcements:

- refer to ASX announcement dated 30 September 2016 titled "Mineral Resources and Ore Reserves at 30 June 2016"
- refer to ASX announcement dated 2 February 2017 titled "Savannah Feasibility Study. Ten-year life with minimal restart capital requirements"

No New Information or Data

The Nickel Ore Reserve 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 the estimates of Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed

PLATINUM GROUP METALS - MINERAL RESOURCES AS AT 30 JUNE 2017

				Grade										Contained Metal	
Resource	Equity	JORC 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 (oz ,000)	Pd (oz ,000)	
Thunder Bay North	h														
Open Pit	100%	2004													
Indicated			8,460,000	1.04	0.98	0.04	0.07	1.50	0.25	0.18	0.014	2.13	283	267	
Inferred			53,000	0.96	0.89	0.04	0.07	1.60	0.22	0.18	0.014	2.00	2	2	
Underground	100%	2004													
Indicated			1,369,000	1.65	1.54	0.08	0.11	2.60	0.43	0.24	0.016	3.67	73	68	
Inferred			472,000	1.32	1.25	0.06	0.09	2.10	0.36	0.19	0.011	2.97	20	19	
Sub-total - Thunde	er Bay North	(Equity)	10,354,000	1.13	1.07								377	355	
					-	-	-	-	-	-	-				
Panton															
Top Reef	100%	2012		_								_			
Measured			4,400,000	2.46	2.83	-	0.42	-	0.08	0.28	-	-	348	400	
Indicated			4,130,000	2.73	3.21	-	0.38	-	0.09	0.31	-	-	363	426	
Inferred			1,560,000	2.10	2.35	-	0.38	-	0.13	0.36	-	-	105	118	
Middle Reef	100%	2012													
Measured			2,130,000	1.36	1.09	-	0.10	-	0.03	0.18	-	-	93	75	
Indicated			1,500,000	1.56	1.28	-	0.10	-	0.04	0.19	-	-	75	62	
Inferred			600,000	1.22	1.07	-	0.10	-	0.05	0.19	-	-	24	21	
Sub-total – Pantor	(Equity)		14,320,000	2.19	2.39								1,008	1,102	
Total - PGM (Equit	у)												1,385	1,456	

PLATINUM GROUP METALS - MINERAL RESOURCES AS AT 30 JUNE 2017

Notes

Thunder Bay North 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 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 0.124 + Rh

Thunder Bay North Underground Resource: 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 × 0.0021 + Pt g/t × 0.0004 + Pt g/t × pt × pt g/t × pt g/t × pt g/t × pt g/t × pt g/t

Cross references to previous market announcements:

- Thunder Bay North Open Pit Resources refer Magma Metals Limited (ASX:MMW) announcement dated 7 February 2011 titled "Positive Scoping Study for Thunder Bay North Project"
- Thunder Bay North 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"
- Panton refer ASX announcement dated 30 September 2015 titled "Mineral Resources and Ore Reserves at 30 June 2015"

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