

White precious metals to shine this decade - Platinum, Palladium and Silver - PGM discoveries of major significance in Australia CHN , CPN, DEV/ASQ and now PNR And IPT

Gold of course is the fundamental measurement of all value and in the long term it is a great store of wealth and is additionally an insurance against cyclical declines in the financial markets of paper and digital securities.

Silver has had an equally long history of being a monetary metal as well as highly useful metal with high performance capability in electrical conductivity, solders, bactericides and a myriad of other uses.

Platinum and Palladium have characteristics that make them ideal for catalysts and particularly in catalysts for motor vehicle exhausts.

Most metals have physical and chemical characteristics that gives them special standing as high performance materials and in today's technology- and purity-driven marketplaces these often unique high performance characteristics should command prices far in excess of current levels.

So prices should simply be much higher.

Platinum and Palladium have traditionally come from 2 main sources –

- the Bushveld in South Africa for about 65% of the world's platinum and 25% of palladium
- the Noril'sk nickel-PGM deposit in Russia providing around 65% of the world's palladium and 25% of the platinum.

Zimbabwe and the US provide most of the rest.

Hence the discovery of the Julimar complex within the newly recognised West Yilgarn Ni-Cu-PGM Province by Chalice is of global significance.

17moz of PdEq and counting in low mining cost open cut deposits should be very profitable and whilst PGM processing technology and facilities do not currently exist in Australia they are sure surely to be developed now to augment the chemical metal processing facilities we now have for nickel and cobalt sulphates and lithium hydroxides and carbonates.

The size of this major PGM Ni-Cu West Yilgarn Province should not be understated.

Another major industry for WA.

So the big picture is:-

Platinum - breaking out after 12 years bear market.



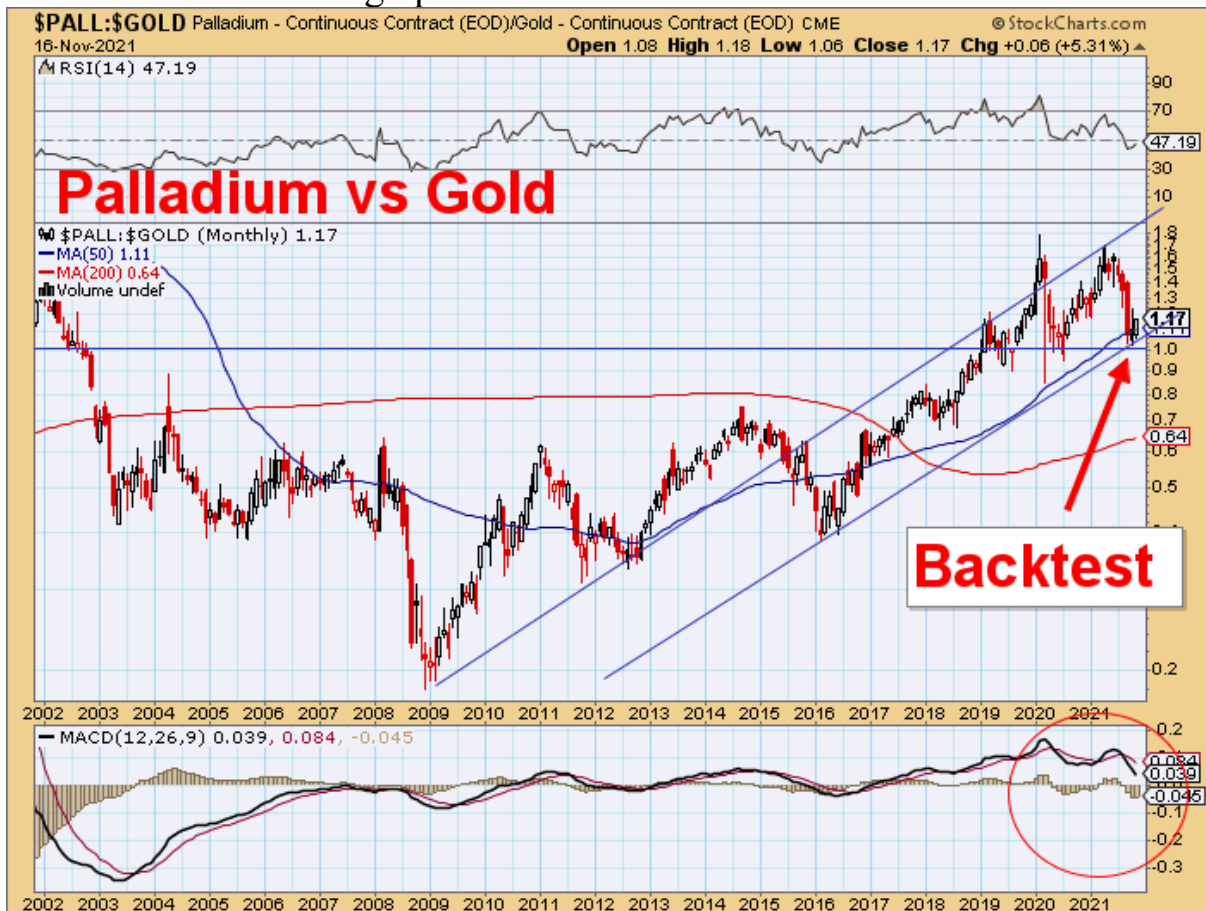
Platinum to strongly outperform gold.



Palladium – outperforming Platinum but about to head much higher – to US\$6000/oz?



Palladium - backtesting uptrend vs Gold



Silver



Looking at the players

New PGM boom developing in WA and elsewhere.

WA PGM Boom			
Stock	Price	Shares	Mkt Cap
CHN	1000	354	3540
PNR	30	1408	419
DEV	50	308	154
CPN	105	75	78
ASQ	15	268	39
IPT	1.6	2024	32

PGEs and Ni-Cu in WA

Take some time to look at this map.

A new New Yilgarn Ni-Cu PGE Province.

CHN has identified a major new province 1200km long and 100kn wide.

This game has only just started.

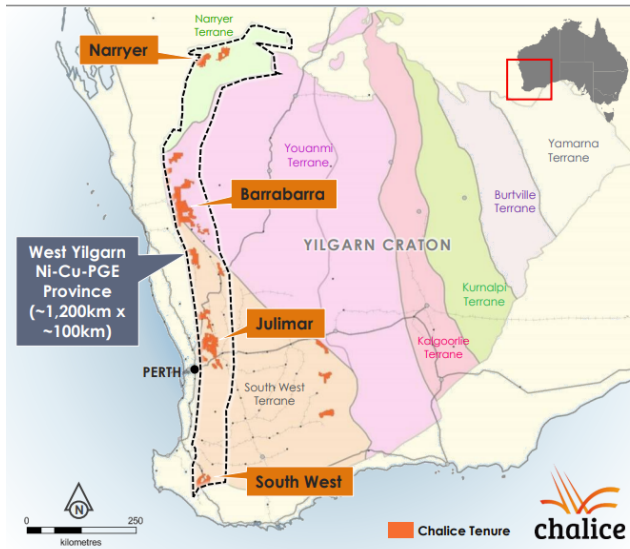
Almost unexplored.

The size of this province has the potential to rival South Africa's Bushveld.

And to make Australia a key player in the production of PGMs.

This is potentially a massive boost to Australia's wealth.

The Julimar discovery has kick-started the new West Yilgarn Ni-Cu-PGE Province, which could deliver **more major discoveries**



- Many of the 'giant' Ni-Cu-PGE sulphide deposits such as Norilsk, Jinchuan, Thompson and Voisey's Bay are located proximal to the margin of Archean age cratons
- The western margin of the Yilgarn craton (Archean) is almost **entirely unexplored** for these mineral systems
- We made the first discovery (Julimar), so we were able to stake a **>8,000km² licence area** along this western margin
- **Hundreds** of potential intrusions already identified within our licence area
- Large-scale Ni-Cu-PGE soil anomaly already identified at Barrabarra (**~300km north of Julimar**) – AC drilling underway
- MLEM to recommence at South West in Q4 2021
- Initial airborne EM surveys over remaining Julimar and new Barrabarra areas in Q4 2021
- An exciting new province with the potential for **several major nickel sulphide discoveries** in the years ahead

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Julimar is just the start.

The Julimar Complex itself spreads over 26km.

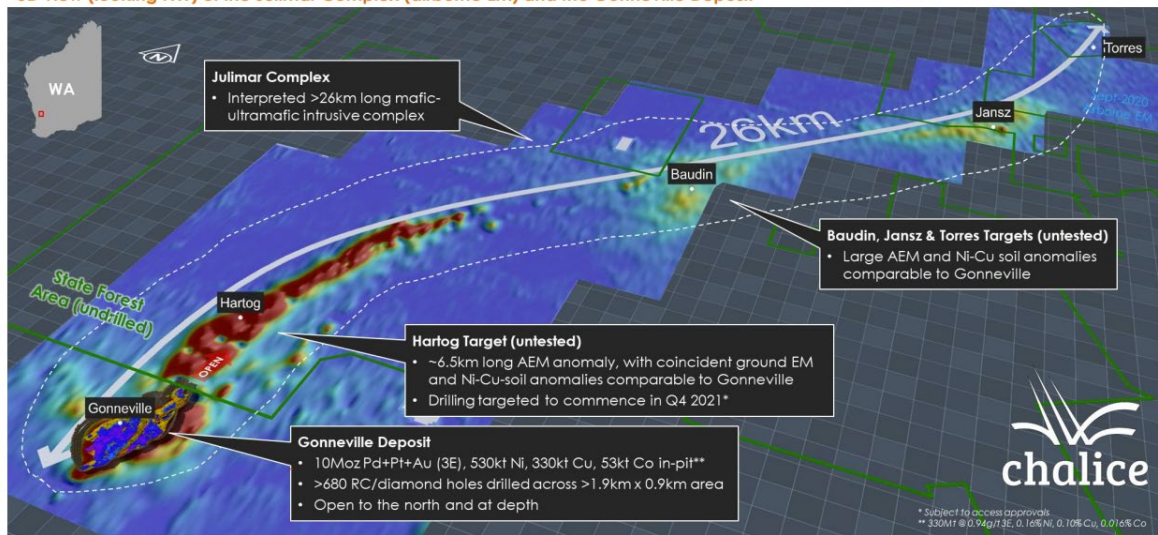
Big!

Drilling to start this quarter at Hartog.

Gonneville covers just **~7% of the 26km long Julimar Complex** – the upside to the north has the potential transform the project

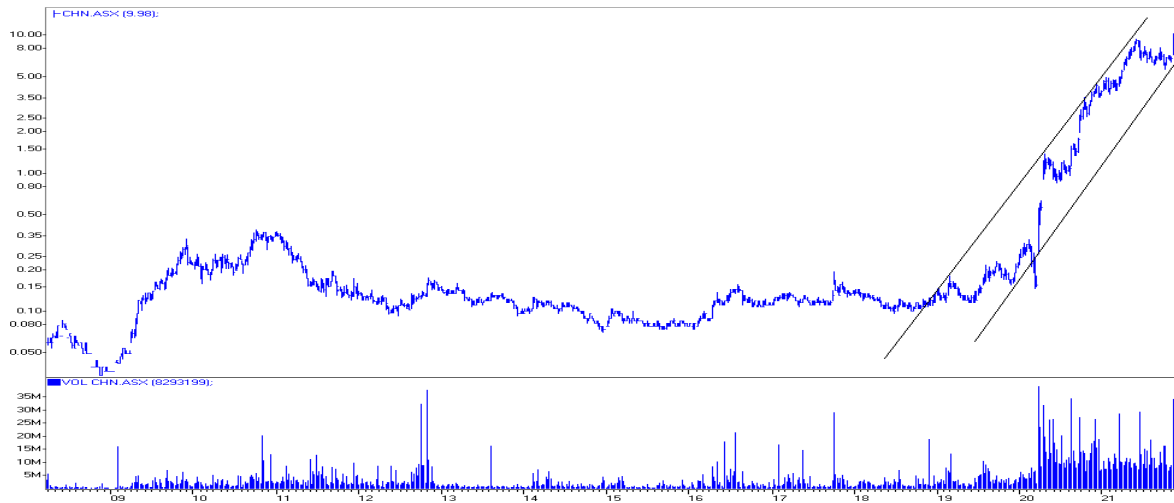


3D view (looking NW) of the Julimar Complex (airborne EM) and the Gonneville Deposit



Lucky MPS clients bought CHN at A\$0.135 for the Victorian assets and many have stayed for the ride.

(With this, LKE and DEG the MPS millionaire factory is working well again!)



And there is more.

DEV/ASQ JV

The Sovereign Project JV just north of Julimar in this exciting new West Yilgarn Province has recorded unassayed sulphides in its first two holes with similar character to CHN’s Gonnevillle but a bit deeper.

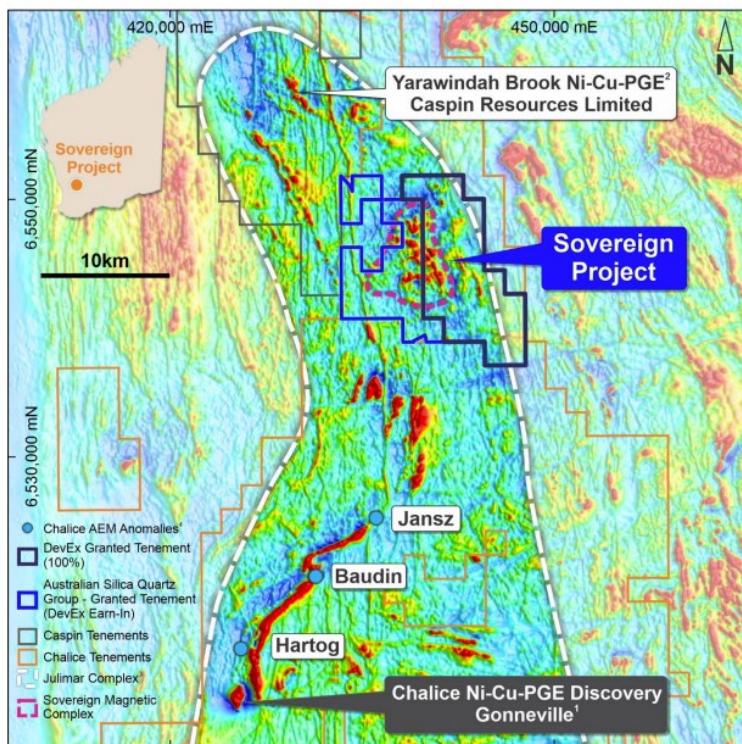
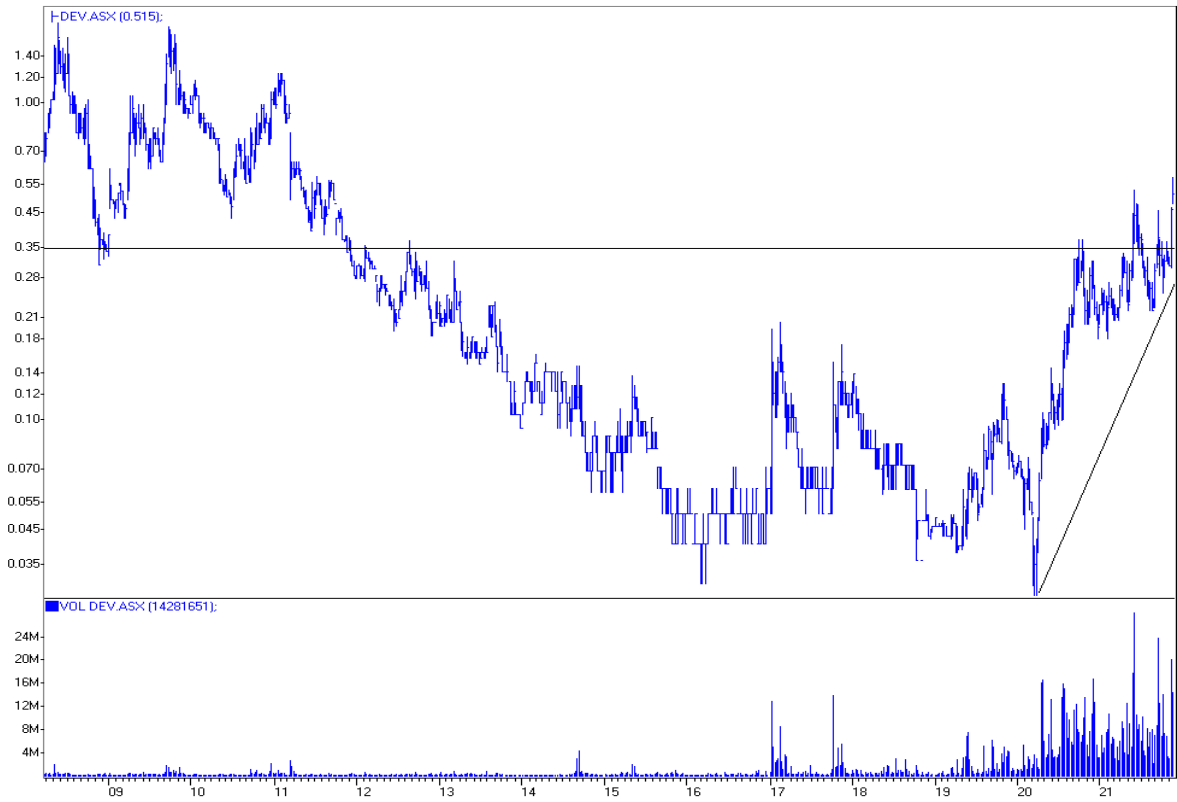


Figure 4. DevEx Tenement together with the Australian Silica Quartz Group Ltd (ASQ) Tenement overlying airborne magnetics (RTP) in relation to Chalice Mining Limited’s high-grade palladium-nickel discovery (ASX: CHN) at the Julimar Project. The outline of the Julimar Complex was interpreted by the Company from information in Harrison (1984)³.

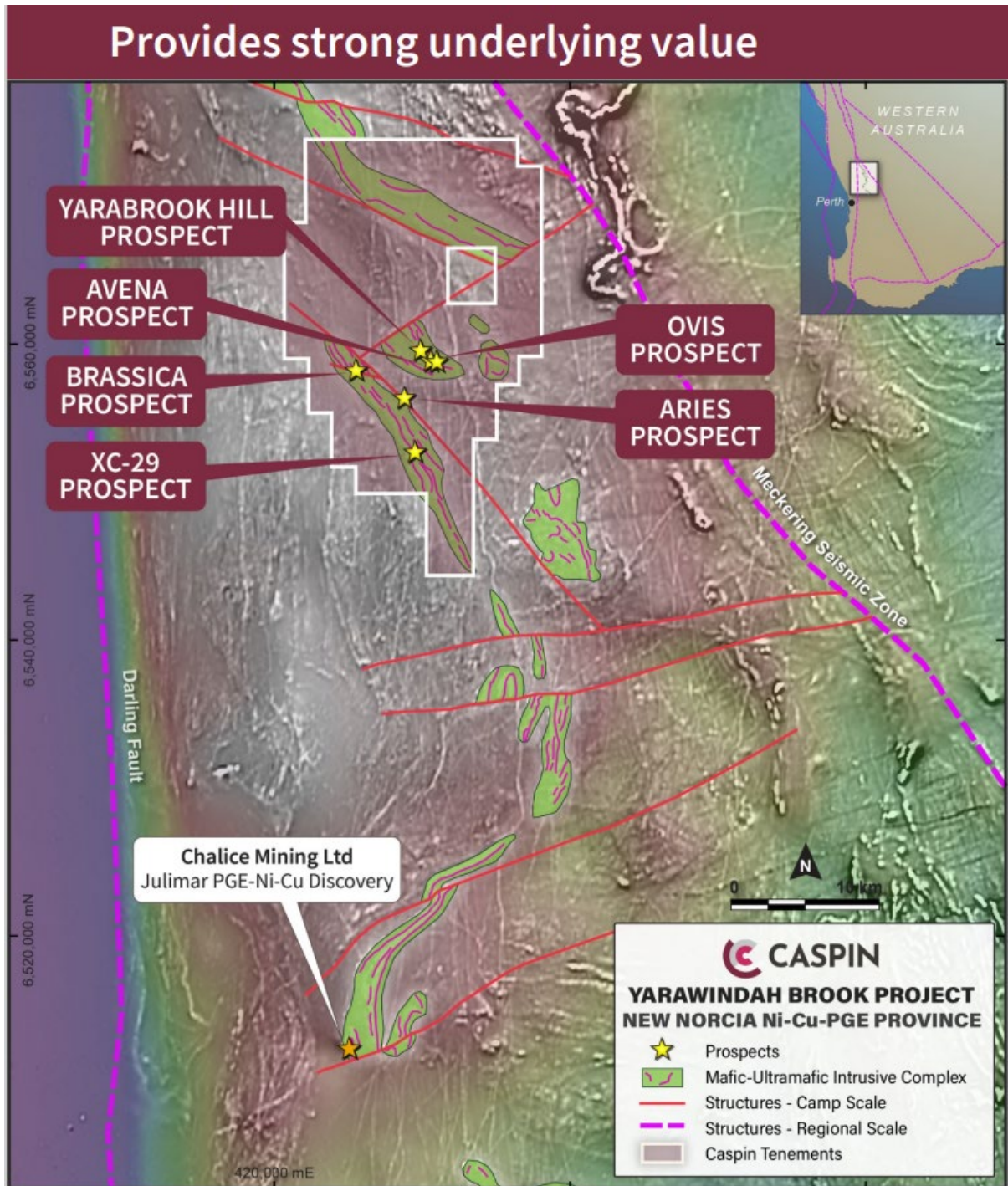
DEV – multi Project company (led by Tim Goyder so you know it is good!) Big base. High targets.



ASQ - JV partner in one of the Sovereign tenements. Big base. High targets.



Caspin CPN has the Yarawindah Brook Project
Just north of Julimar



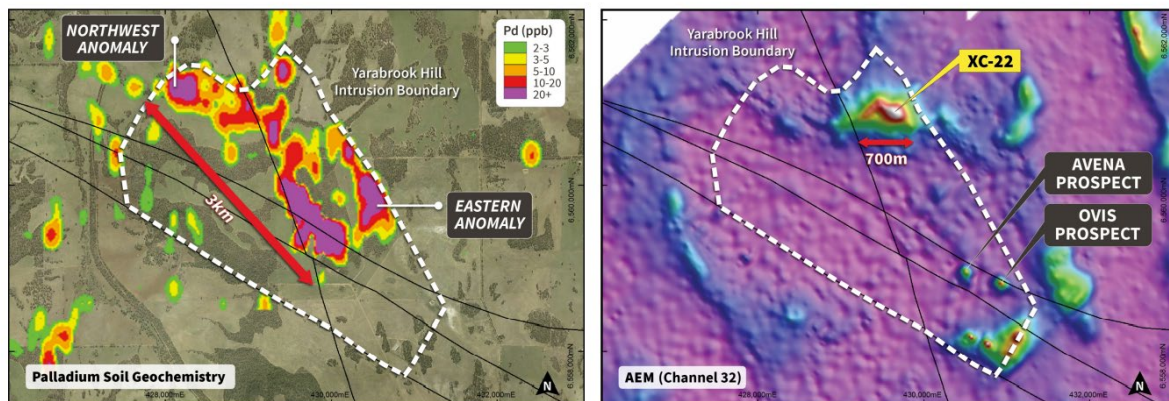
This target is growing and area is bigger than CHN's Gonnevillle initial deposit.

Additional Targets for RC Program

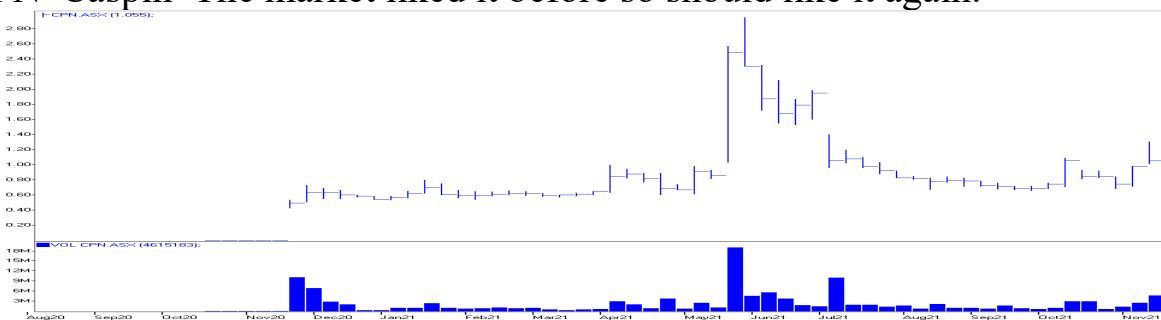


Geochemistry and EM Targets

- Northwest and Eastern soil anomalies potentially represent basal mineralisation
- XC-22 priority target – magnetic high, gravity low, possibly serpentinised rocks, similar to Gonnevillle
- Plan to expand geochemical coverage to the south



CPN Caspin The market liked it before so should like it again.



Pantoro PNR

Profitable gold producer with Norseman gold development to come and now this!

- PGM discovery at surface
- +100m intersections and potential strike length of +20km.
- ~15mt per km = +300mt @ 0.9g/t PGE = ~8moz PGE.



ASX Announcement
15 November 2021

Drilling Confirms Large Scale Lamboo PGE Deposit

Pantoro Limited (**ASX:PNR**) (**Pantoro**) is pleased to advise that it has completed its maiden step out drill program on the prospective Lamboo ultramafic basal contact at the Halls Creek Project (PNR 100%), with outstanding platinum group element (PGE) results returned.

Highlights

- New drilling has defined a further 1.2 kilometres of PGE mineralisation on the basal contact of the West Limb and Southern Ore Zone. All areas drilled to date remain open in all directions.
- Over 1.5 kilometres in total mineralised strike now drilled and defined out of a potential 20 kilometres basal contact target.
- Wide consistent mineralised PGE zone defined from surface to over 150 metres vertical and remains open.

New results which include a significant palladium component include:

- **100 m @ 1.10 g/t Pt+Pd+Au (3E)** from surface inc. 66 m @ 1.34 g/t Pt+Pd+Au (3E) from surface.
- **120 m @ 0.96 g/t Pt+Pd+Au (3E)** from surface inc. 31 m @ 1.24 g/t Pt+Pd+Au(3E) from 89 metres.
- **118 m @ 0.90 g/t Pt+Pd+Au (3E)** from surface inc. 46 m @ 0.98 g/t Pt+Pd+Au(3E) from 10 metres.
- **46 m @ 1.11 g/t Pt+Pd+Au (3E)** from surface.
- **22 m @ 1.11 g/t Pt+Pd+Au (3E)** from surface.
- **31 m @ 0.90 g/t Pt+Pd+Au (3E)** from 36 metres.
- **37 m @ 0.90 g/t Pt+Pd+Au (3E)** from 14 metres.
- **71 m @ 0.59 g/t Pt+Pd+Au (3E)** from 120 metres.
- **90 m @ 0.69 g/t Pt+Pd+Au (3E)** from surface inc. 24 m @ 0.99 g/t Pt+Pd+Au (3E) from surface.

Platinum (Pt) plus palladium (Pd) plus gold (Au) (3E) breakdown for each constituent element is provided in the summary table of assays.

The Lamboo PGE Deposit, located approximately five kilometres south of the Nicolsons Gold Mine contains approximately 20 kilometres of the prospective basal contact, with only a small proportion evaluated by recent and historic drilling. Surface sampling is planned during the current wet season to assist with drill targeting.

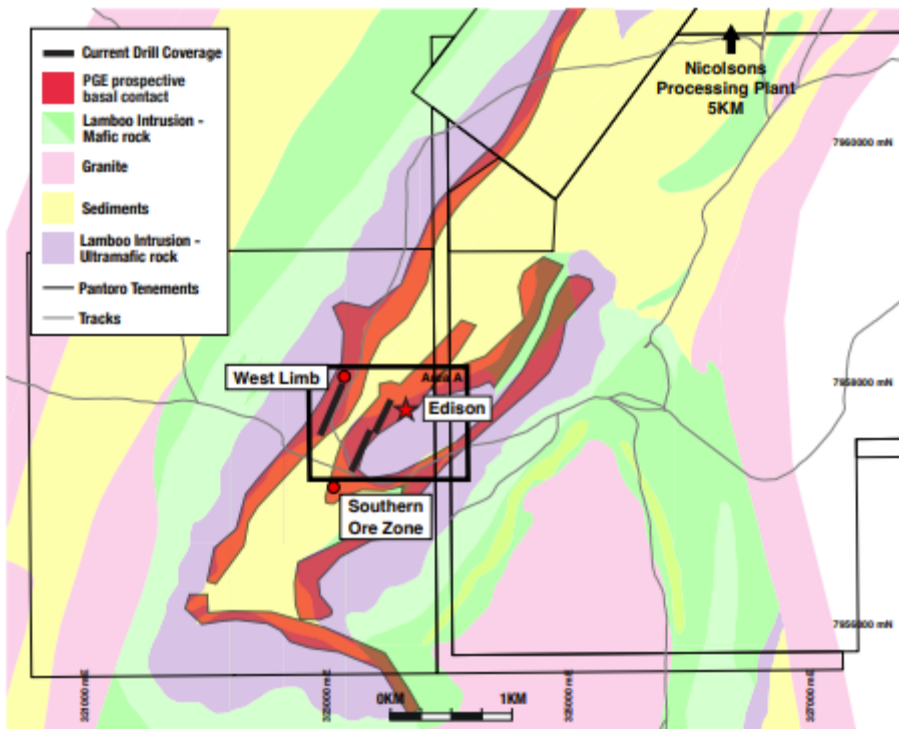
Initial on ground reconnaissance fieldwork is also being undertaken to advance the significant PGE potential hosted within Pantoro's 100% owned 1,000 km² Halls Creek Project tenement package.

Commenting on the results, Managing Director Paul Cmrlec said

"The Lamboo PGE deposit is rapidly shaping up as an outstanding discovery on the doorstep of our Halls Creek gold operations. Drilling to date has revealed a remarkably consistent deposit with large mineralisation widths commencing from surface over a long strike length.

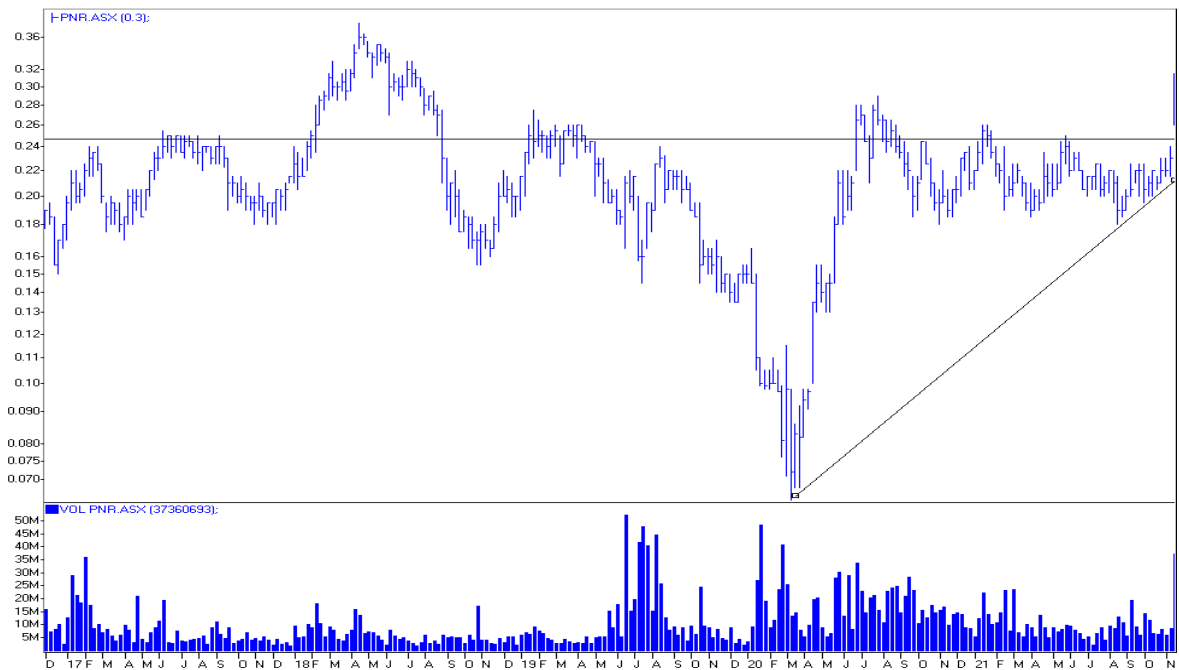
Pantoro will advance mapping and surface sampling of the deposit throughout the wet season ahead of a large drilling campaign planned to commence as soon as seasonal weather conditions allow good access."

Limbs on an intrusive. 22km of strike here.



Geology plan view showing system and drill locations.




PNR Big base. Big upside.




IPT Impact Minerals

Multi project company

The Key to Exploration Success: Large Strategic Ground Holdings: Ni-Cu-PGM-Au Ag (Zn-Pb)

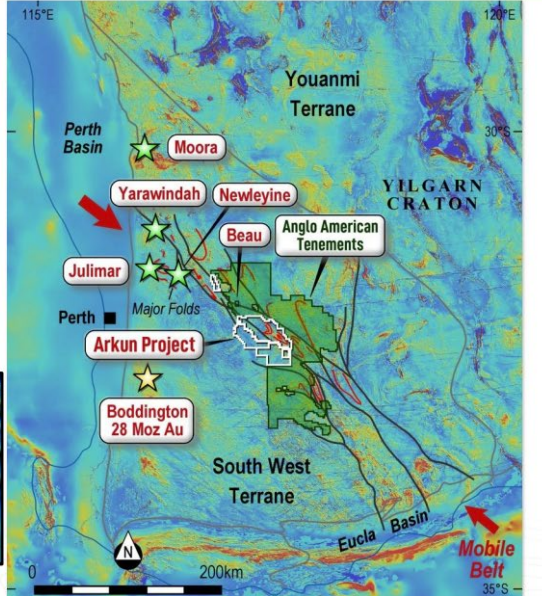
<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="text-align: center;">Early stage Gold, Ni-Cu-PGM and LCT Pegmatites</p> <p style="text-align: center; color: red;">WA Projects (IPT 100% or 80%)</p> <ul style="list-style-type: none"> • Doonia, WA: walk up drill target for gold to be drilled Q4 2021. • Arkun, WA: Large strategic ground holding of 2,000 sq km in the emerging Ni-Cu-PGE Province near Julimar (Chalice Mining NL). Surrounded by Anglo American Corporation 	<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="text-align: center;">\$18 million joint venture with IGO on emerging high grade Ni-Cu-PGM discovery</p> <p style="text-align: center; color: red;">Broken Hill, New South Wales (IPT 100%)</p> <ul style="list-style-type: none"> • Home to the giant Broken Hill silver-lead-zinc deposit (>300 Mt) • Large strategic ground holding of 815 sq km • Potential for major nickel-copper-PGM mining camp over a 40 km belt • Outstanding drill results in 2020 with follow up campaign in 2022 	<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="text-align: center;">Other Strategic Holdings Rationalisation of portfolio in progress</p> <p style="text-align: center; color: red;">Commonwealth, NSW (IPT: 100%)</p> <ul style="list-style-type: none"> • Home to the giant Cadia copper-gold deposit (>40 Moz Au, >10 Mt Cu) • Large strategic ground holding of 700 sq km • Potential for VMS deposits like Eskay Creek (4 M oz Au, 180M oz Ag) • Blackridge, QLD: 150 sq km covering part of >300,000 ounce gold field
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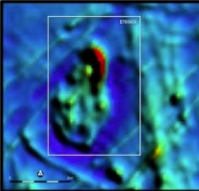


WA Ni-Cu-PGM projects

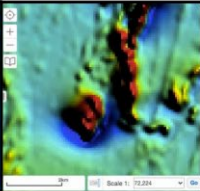
Arkun Project⁶

**Emerging
Ni-Cu PGM mineral
province of SW
Western Australia**

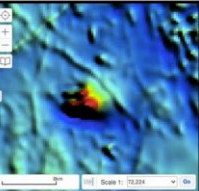




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Julimar



Newleyine

NSW Near Broken Hill

- High grades but small intersections.
- Intriguing
- A\$18m JV with IGO earning up to 75%.

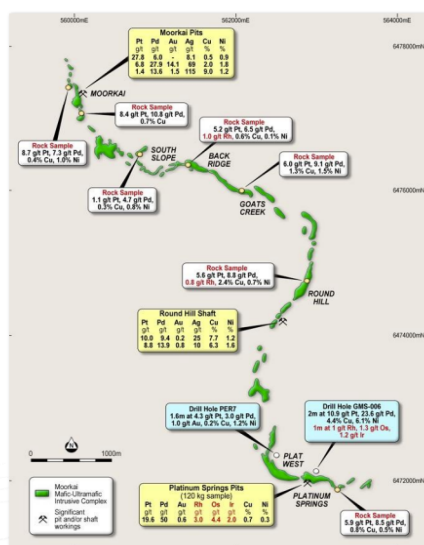
Broken Hill Project Overview

High grades of all six PGM's

1. Major land position of 815 sq km in one of Australia's most prolific mining belts
2. High PGM grades including rare PGM's Rh, Os, Ru and Ir
3. Multiple targets over 25 km for nickel-copper-PGM deposits
 - **Moorkai:** High grade rock chip samples over 9 km trend
 - **Platinum Springs:** high grade magmatic nickel-copper-PGE sulphide
 - **Red Hill:** Impact discovery of very high-grade PGE's
 - **Little Broken Hill:** poorly explored intrusion similar to Jinchuan and Voiseys Bay
4. Potential for million ounce PGM discovery with drilling in progress
5. Significant zinc-lead-silver potential

Moorkai-Platinum Springs

Some very high grades here



Magmatic Ni-Cu-PGM sulphides Moorkai-Platinum Springs¹

Platinum Springs

- 0.6 metres at 11.5 g/t platinum, 25.6 g/t palladium, 1.4 g/t gold, 7.6% copper, 7.4% nickel, 44.3 g/t silver, 0.16% cobalt, 1.3 g/t rhodium, 1.7 g/t iridium, 2.0 g/t osmium and 0.8 g/t ruthenium from 57.1 metres down hole within
- Richest ore in Australia?
- Southern end of the 9 km Moorkai Trend dripping in PGE's

?

BUT:
How to Focus?

IPT – long term underperformer

- BUT downtrend broken and nice back test
- Potential H&S Reversal pattern forming



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