

Forward looking statements and competent person(s) disclosure



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This presentation may contain forward-looking statements and forward information, including forward looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995 (collectively, forward-looking statements). These forward-looking statements are made as of the date of this announcement and Chalice Mining Limited (the Company) does not intend, and does not assume any obligation, to update these forward-looking statements. Forward-looking statements relate to future events or future performance and reflect Company management's expectations or beliefs regarding future events and include, but are not limited to: the impact of the discovery on the Julimar Project's capital payback; the Company's strategy and objectives; the realisation of mineral resource estimates; the likelihood of further exploration success; the timing of planned exploration and study activities on the Company's projects; mineral processing strategy; access to sites for planned drilling activities; and the success of future potential mining operations and the timing of the receipt of exploration results. In certain cases, forward-looking statements can be identified by the use of words such as, "commitment" or "committed", "considered", "could", "estimate", "expected", "for", "further", "future", "goal", "indicates", "is", "likely". "may", "needs", "open", "optionality", "plan" or "planned", "points", "possible", "potential", "promisina", "strateay" "upside", "will" or variations of such words and phrases or statements that certain actions, events or results may, could, would, might or will be taken, occur or be achieved or the negative of these terms or comparable terminology. By their very nature forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Such factors may include, among others, risks related to actual results of current or planned exploration activities; whether aeophysical and aeochemical anomalies are related to economic mineralisation or some other feature; whether visually identified mineralisation is confirmed by laboratory assays; obtaining appropriate approvals to undertake exploration activities; metal grades being realised; metallurgical recovery rates being realised; results of planned metallurgical test work including results from other zones not tested yet, scaling up to commercial operations; changes in project parameters as plans continue to be refined; changes in exploration programs and budgets based upon the results of exploration. changes in commodity prices; economic conditions; political and social risks, accidents, labour disputes and other risks of the mining industry; delays or difficulty in obtaining governmental approvals, necessary licences, permits or financing to undertake future mining development activities; changes to the regulatory framework within which Chalice operates or may in the future; movements in the share price of investments and the timing and proceeds realised on future disposals of investments, the impact of the COVID 19 pandemic as well as those factors detailed from time to time in the Company's interim and annual financial statements, all of which are filed and available for review on the ASX at asx.com.au and OTC Markets at otcmarkets.com. Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking statements, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. There can be no assurance that forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements.

Authorisation

This presentation has been authorised for release by the Disclosure Committee.

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Mineral Resources Reporting Requirements

As an Australian company with securities listed on the Australian Securities Exchange (ASX), Chalice is subject to Australian disclosure requirements and standards, including the requirements of the Corporations Act 2001 and the ASX. Investors should note that it is a requirement of the ASX listing rules that the reporting of exploration results and mineral resources in Australia is in accordance with the JORC Code and that Chalice's exploration results and mineral resource estimates comply with the JORC Code. The requirements of JORC Code differ in certain material respects from the disclosure requirements of United States securities laws and other reporting regimes. There is no assurance that the Company's mineral resource estimates and related disclosures prepared under the JORC Code would be the same as those prepared under United States securities law other reporting regimes. The terms used in this announcement are as defined in the JORC Code. The definitions of these terms differ from the definitions of such terms for purposes of the disclosure requirements in the United States and other reporting regimes

Competent Persons Statement

The information in this presentation that relates to exploration results for the Julimar Project is extracted from the following ASX announcements:

- "High-grade nickel-copper-palladium sulphide intersected at Julimar Project in WA", 23 March 2020
- "New Mineralised Zone Intersected at Dampier Target". 7 July 2022.
- "Seismic identifies potential 1.6km extension of Gonneville", 6 September 2022
- "Major northern extension of Gonneville Intrusion confirmed", 19 October 2022
- "Outstanding wide high-grade intersections north of Gonneville", 23 November 2022
- "Promising new sulphide mineralisation at the Hooley Prospect", 8 December 2022
- "Julimar flowsheet development and scoping update", 13 December 2022

The information in this presentation that relates to Mineral Resources has been extracted from the ASX announcement titled:

• "Updated Gonneville Mineral Resource", 8 July 2022.

The above announcements are available to view on the Company's website at chalicemining.com

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the original release continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the relevant original market announcements. Refer to the attached Appendices for further information on the Mineral Resource Estimate and metal equivalents.





A globally recognised name in exploration – a team with a track record of **finding mines** and rewarding shareholders



High-performance, results driven culture (mine finding + commercial DNA)



Our purpose – to find the metals needed to decarbonise the world (the green metals)



Our aspiration – to create a world class, multi-district green metals province



Chalice is a leading ASX200 green metals explorer with a track record of creating shareholder value





Our Achievements

- ~4,000% total return to shareholders since Julimar discovery in March 2020
- World class Julimar Ni-Cu-PGE discovery recognised with PDAC Thayer Lindsley Award (2023) and AMEC Prospector of the Year Award (2022)
- Chalice recognised as RIU Craig Oliver Award (2021) MNN Explorer of the Year (2021) and D&D Emerging Company of the Year (2021)

Board of Directors



Derek La Ferla

Chairman



Dorsch





Morgan Ball

Non-Executive Director



Garret Dixon

Non-Executive Director



Stephen McIntosh

Non-Executive Director



Linda Kenyon

Non-Executive



Gaines

Non-Executive Director

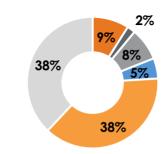
Corporate snapshot - ASX: CHN

Market Capitalisation¹

~A\$2.3Bn

Cash balance² **A\$97.6m**

Shares on issue **376m**



Top Shareholders³

- Tim Goyder (Founder)
- Directors & Mgmt.
- Goldman Sachs
- BlackRock
- Other Institutions
- Retail & HNWI

Research coverage



J.P.Morgan



Jefferies

Chalice is actively growing its organisational capability





Derek La Ferla, Chairman

- Highly regarded ASX200 chair and company director with 30+ years experience as a corporate lawyer
- Chair of Poseidon Nickel and formerly Chair of Sandfire Resources



Alex Dorsch, Managing Director and Chief Executive Officer

- Diverse experience in consulting, engineering and corporate advisory in the energy and resources sectors
- Previously a Specialist consultant with McKinsey & Company



Morgan Ball, Non-Exec Director

- Chartered Accountant with 25+ years experience in the resources, logistics and finance industries
- Formerly CFO of Northern Star Resources and Saracen Mineral Holdings



Garret Dixon, Non-Exec Director

- 30+ years experience in resources and mining contracting sectors
- Formerly Executive VP Alcoa & President Bauxite



Stephen McIntosh, Non-Exec Director

- Highly regarded mining executive with 30+ years experience in exploration, major project studies and execution
- Formerly Group Executive and Head of Exploration & Development Projects at Rio Tinto



Linda Kenyon, Non-Exec Director

- Corporate lawyer and senior executive with 30+ years experience
- Formerly Company Secretary and member of Executive Leadership Team at Wesfarmers



Jo Gaines, Non-Exec Director

- Extensive experience in intergovernmental negotiations and stakeholder engagement
- Chair of the Government Employees Superannuation Board (GESB) and a Director of Development WA





Richard Hacker, CFO

- Chartered Accountant with 20+ years experience in junior company financing, corporate and commercial management
- Company CFO since 2006



Dr Kevin Frost, GM Discovery & Growth

 Co-recipient of PDAC 2023 Thayer Lindsley Award and AMEC's 2022 Prospector of the Year Award for the Julimar discovery, and previously in 2009 for the discovery of the Spotted Quoll nickel sulphide deposit in WA (Western Areas)



Bruce Kendall, GM Exploration

 Co-recipient of AMEC's Prospector of the Year Award in 2012 for the discovery of the world-class Tropicana gold deposit in WA (AngloGold Ashanti)



Dr Soolim Carney, GM Environment and Community

- Environment, health and safety, indigenous affairs, govt relations and community specialist with 20+ years experience
- Former Regional Environment Manager for Alcoa Australia



Mike Nelson, GM Project Development

- 30+ years experience in operational and technical leadership roles
- Instrumental in leading several mega-projects for mining internationals including Barrick Gold and Teck Resources



Chris MacKinnon, Business Development and Legal Manager

 15 years experience as a corporate lawyer and finance advisor in the resources industry



Jamie Armes, Company Secretary

 Chartered Accountant with 20+ years experience within the accounting profession and administration of public listed companies in the mining and exploration industry

Julimar – a major new polymetallic critical minerals project in Western Australia

A remarkable new greenfield discovery in 2020, now a tier-1 scale Resource:

350Mt @ ~0.58% NiEq or ~1.8g/t PdEq1 (~70% Indicated / ~30% Inferred):





560kt Ni

360kt Cu

54kt Co

contained

equivalent to ~2.0Mt NiEq or ~20Moz PdEq contained

Including a higher-grade (>0.6% NiEq OP + UG) sulphide component, with upside:

82Mt @ ~1.0% NiEq or ~2.9g/t PdEq, extending from 30m to 700m+ (open)

Resource update expected in late Q1 2023



A **strategic**, **large-scale** Resource with rare mix of critical minerals in sulphide mineralogy



Green metals at Julimar are essential for decarbonisation technologies like batteries, electric vehicles and hydrogen



100% owned by Chalice, and located in WA, one of the world's most attractive mining jurisdictions



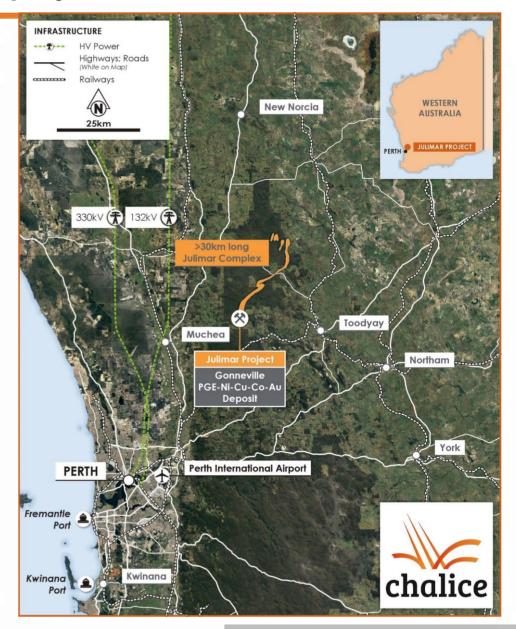
Strategy to explore and develop in parallel; **strategic minority JV partnerships** under consideration



Direct access to major highway, rail, power, port infrastructure as well as a large local workforce



Compelling exploration upside, Resource occupies just ~2km of newly recognised >30km long Julimar Complex



Julimar is capturing attention as a **strategic asset** for Australia and the western world, given its rare palladium-nickel-cobalt content



Julimar is the **first major PGE discovery in Australia** and one of the few recent large-scale Ni-Cu-PGE discoveries in the western world

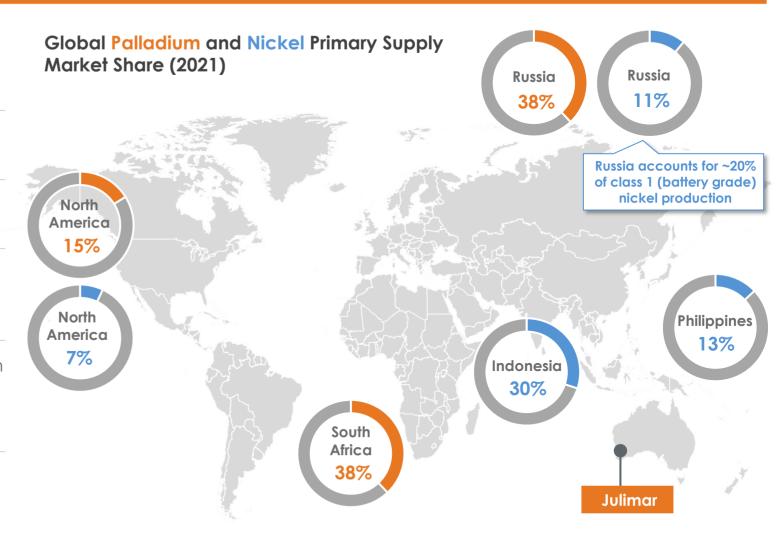
Pd, Pt, Ni and Co are classified as 'critical minerals' by most western governments

The western world is **extremely reliant** on **Russian Palladium supply** (~40% of global supply)

Located in one of the **world's most stable and friendly mining jurisdictions** with a commitment to sustainable development

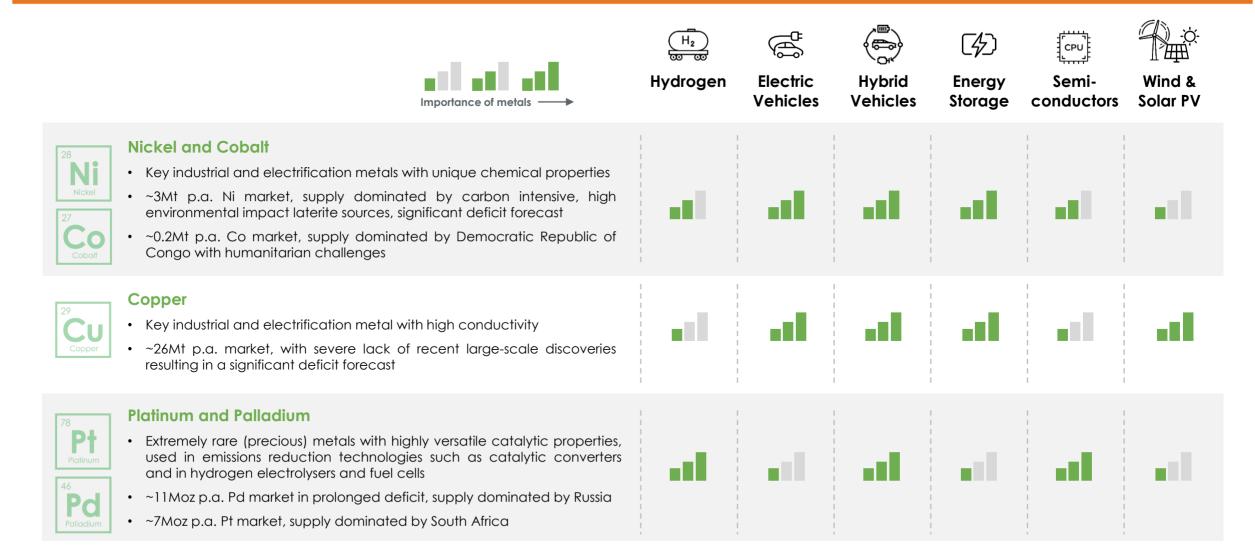
The Australian Government has committed >\$1 billion to accelerate strategically significant projects and strengthen internal critical mineral security and supply chains⁽¹⁾

Strategic partner interest⁽²⁾ in **Julimar's large nickel sulphide endowment** has increased significantly, triggered by the US Inflation Reduction Act (IRA)



The need to decarbonise the global economy will underpin long-term demand for the **green metals** at Julimar





The growing battery industry needs new, large scale and sustainable sources of battery-grade nickel – a unique opportunity for Julimar

70





Battery-grade nickel consumers forecast to become heavily reliant on supply sources that **do not meet sustainability standards**, i.e. NPI



With **560kt of contained nickel** defined to date, Julimar has the potential to become a globally significant source of class 1 nickel, which has a much lower carbon footprint than other sources

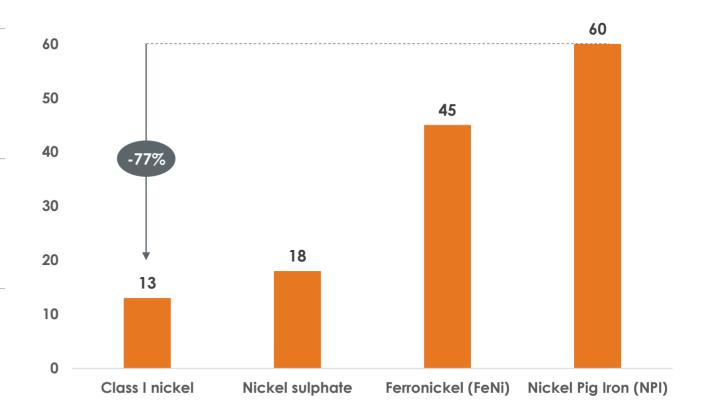


Julimar's proximity to WA's world class power grid and infrastructure make it uniquely positioned to deliver low carbon intensity metals



Class 1 nickel sources are likely to **demand a premium**, driven by the need to comply with emissions targets and to satisfy increasing sensitivity to sustainability standards





Platinum and Palladium are essential in every stage of the hydrogen value chain, a critical solution to achieving net-zero carbon emissions



Production

Long-term storage and transport of green

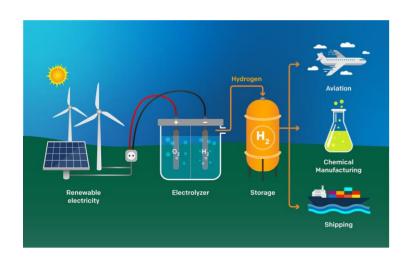
Transport and Storage

Utilisation

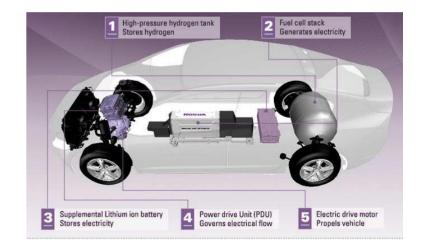
Green hydrogen produced by electrolysis of water using renewable energy (wind, solar, hvdro)

hydrogen likely to be achieved using liquified ammonia (NH₂) as carrier

Green hydrogen ideal for use in green steel and Fuel Cell Electric Vehicles (FCEVs), likely to be the dominant technology for heavy transport such as trucks, trains and ships







PGEs are essential catalysts in the Proton **Exchange Membrane (PEM) Electrolyser**

Pd is an essential catalyst in hydrogen-ammonia conversion and purification

PGEs are essential catalysts in most hydrogen fuel cell designs

^{&#}x27;Provision of PGM market intelligence and long-term metal price forecasts' SFA Oxford, March 2021

The rapidly growing and increasingly adopted hydrogen economy has the potential to **underpin long term PGE demand**





Current primary supply of Pt and Pd is ~16Moz p.a. Pd is in prolonged deficit while Pt in surplus



Our view is that with **conservative hydrogen adoption**, demand for Pt and Pd from hydrogen could be as high as ~8Moz p.a.⁽¹⁾

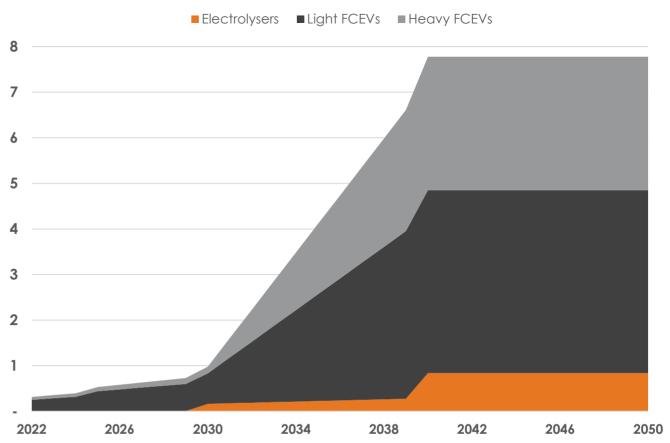


A modest hydrogen adoption scenario includes ~10% share of light vehicle market, ~40% share of heavy vehicle market, and 50-70GW of electrolyser capacity by 2040



Projections do not include PGE usage from hydrogen applications in **shipping**, **aviation**, **industrial or steel manufacturing**

Estimated Annual Pt and Pd Demand from Hydrogen (Moz)

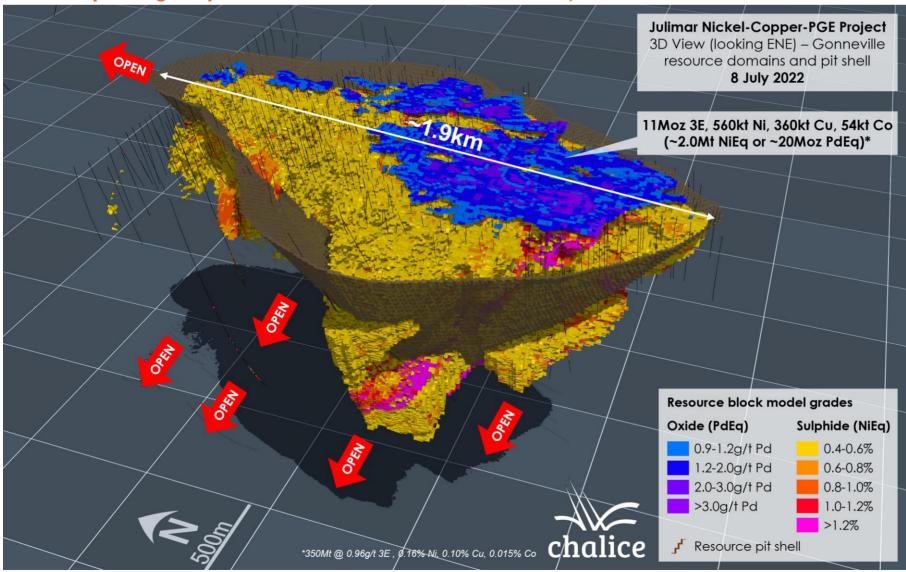


(1) Cautionary statement: The forward-looking statements have been estimated by Chalice using assumptions that have been informed by third party research. These statements are based on an assessment of economic and operating conditions and on various assumptions regarding future events and actions that, as at the date of this presentation, are considered reasonable by Chalice. Refer to "Long Term PGE Demand Forecast" slide in Appendix for additional information regarding the underlying assumptions and calculation methodology, and Slide 2 for a statement regarding the risks involved in forward-looking statements of this nature. Without limiting these risks, such forward-looking statements are predictive in character, may be affected by incorrect assumptions or by known or unknown risks and uncertainties, and may differ materially in due course. Investors are therefore cautioned against attributing undue certainty to forward-looking statements, including those outlined above.

The tier-1 scale, near-surface Resource has high-grade optionality and compelling growth potential







Current Indicated and Inferred Mineral Resource Estimate¹:

- 350Mt @ 0.96g/t Pd+Pt+Au (3E), 0.16% Ni, 0.10% Cu, 0.015% Co (~0.58% NiEq or ~1.8g/t PdEq)
- 11Moz 3E, 560kt Ni, 360kt Cu and 54kt Co contained
- Equivalent to ~2.0Mt NiEq or ~20Moz PdEq contained
- Resource is defined to depth of ~700m, open to the north and at depth
- Located entirely on Chaliceowned farmland

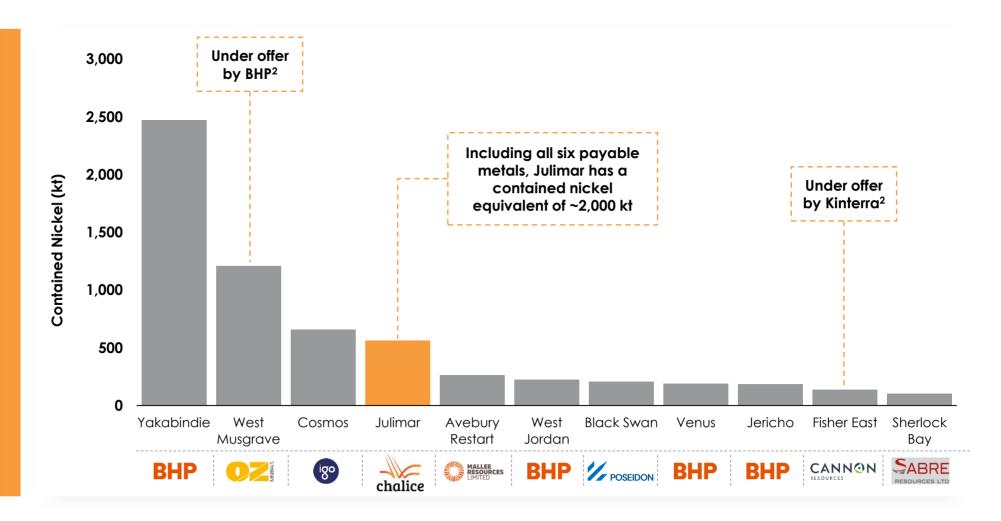
Resource update in progress, expected to be completed in late Q1 2023

1 Refer to full Mineral Resource Statement in Appendix

Julimar has the **fourth largest** undeveloped nickel sulphide resource in Australia and has significant PGE-Cu-Co credits



Australian primary nickel sulphide resources in exploration or development ¹



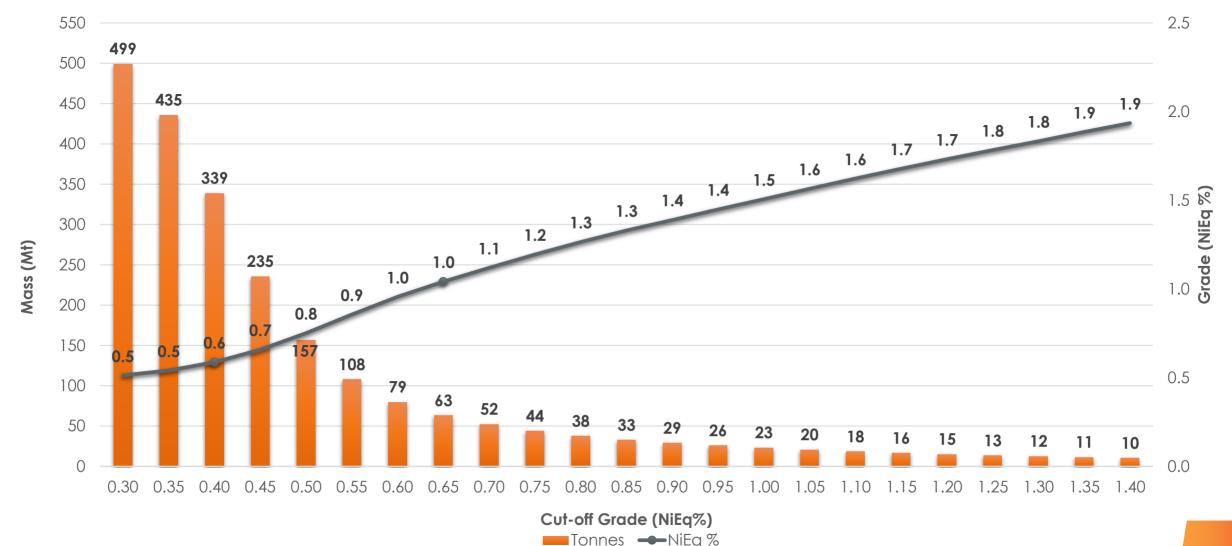
Source: Company filings.

^{1:} Based on total reported JORC Resource (Measured, Indicated, and Inferred). Includes all exploration and development projects with a contained Ni resource of over 99kt. Please refer to Appendix [Australian Primary Nickel Sulphide Resources slide] for peer comparison information; [Gonneville Mineral Resource Estimate slide] and [Metal equivalent assumptions slide] for the assumptions used for the calculation of metal equivalents. 2: As at time of release

Flat grade-tonnage curve highlights the significant higher-grade component – providing the project with **development optionality**



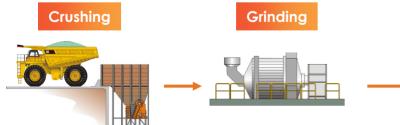
Nickel Equivalent Grade-Tonnage Curve in-pit (on NiEq cut-off grade basis)



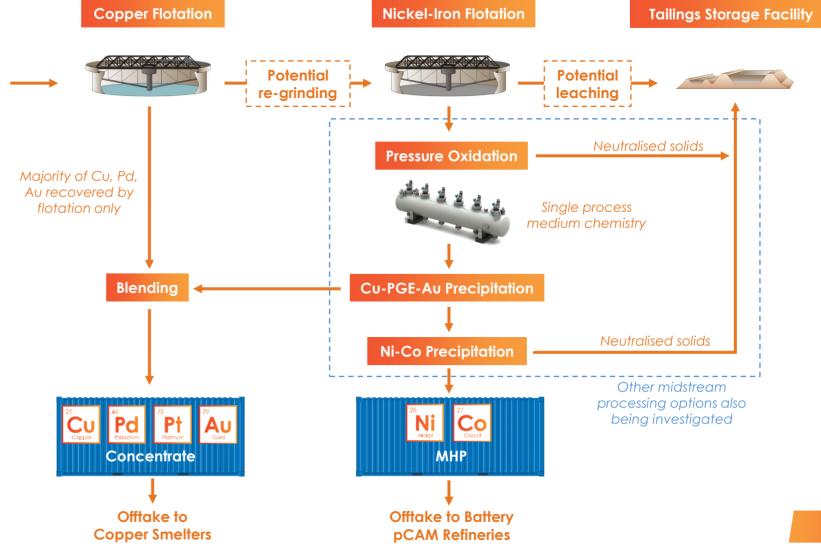
The processing flowsheet is under development, targeting production of a Cu-PGE-Au concentrate and a battery-grade Ni-Co MHP



Julimar Processing Flowsheet (simplified)

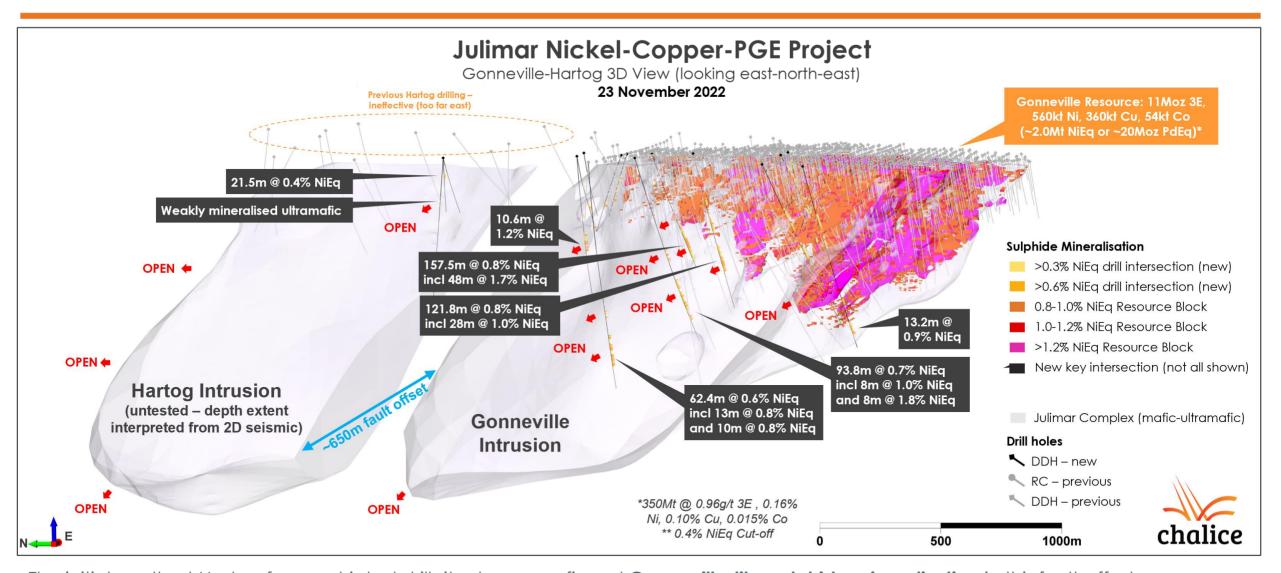


- >150 batch flotation and >25 locked cycle flotation tests completed to date
- The preferred sequential copper flotation and nickel concentrate enrichment process flowsheet is expected to produce:
 - A copper-palladium-platinum-gold concentrate, indicatively grading 20-25%
 Cu and 100-150g/t 3E for offtake to an international copper smelter(s); and
 - A Nickel-Cobalt Mixed Hydroxide
 Precipitate (using flotation and POx),
 assumed to be grading 40-50% Ni and 4 5% Co for offtake to an international
 battery precursor cathode active material
 (pCAM) refinery(ies).
- Further work in 1H 2023 is focussed on grind size optimisation, flotation tails leaching and assessment of midstream processing options
- Scoping Study underway, assessing a broad range of scale, mining and flowsheet options



The growth potential at Gonneville was highlighted by recent **outstanding** wide, high-grade intersections at the northern end of the deposit

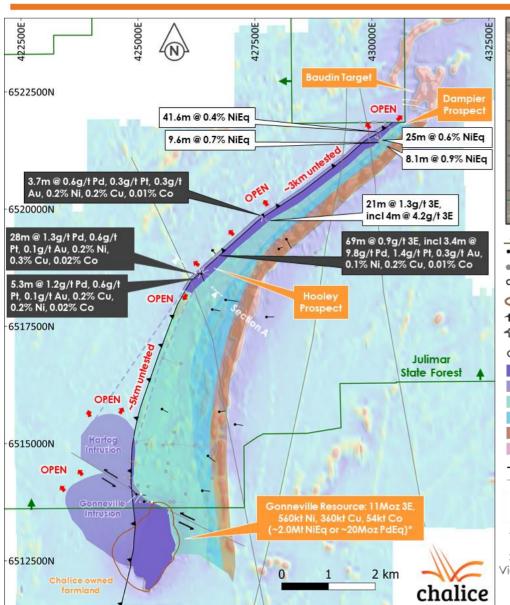




The initial results at Hartog from restricted drill sites have confirmed **Gonneville-like sulphide mineralisation** in this fault-offset extension of the Julimar Complex – further wide-spaced step-out drilling is underway

Gonneville-like ultramafic geology + magmatic sulphides have been intersected over a **strike length of ~10km** across the Julimar Complex





- A SULED MINISTER CONTROL
- State Forest boundary
- DDH New
- DDH Previous
- ODH Assays pending
- Gonneville Resource pit crest
- New intersection (excl. Gville)
- ← Previous intersection

Geology Interpretation

- Julimar Complex (at surface)
 Julimar Complex (at depth)
 Greenstone Sequence
- Other Mafic-Ultramafic

 Banded Iron Formation
- Hanging Wall Structure
 Other Structures
- *350Mt @ 0.96g/t 3E , 0.16% Ni, 0.10% Cu, 0.015% Co

Julimar Nickel-Copper-PGE Project

South Julimar Complex Plan
View – Drill holes, geology, over
magnetics (TMI-RTP)
8 December 2022

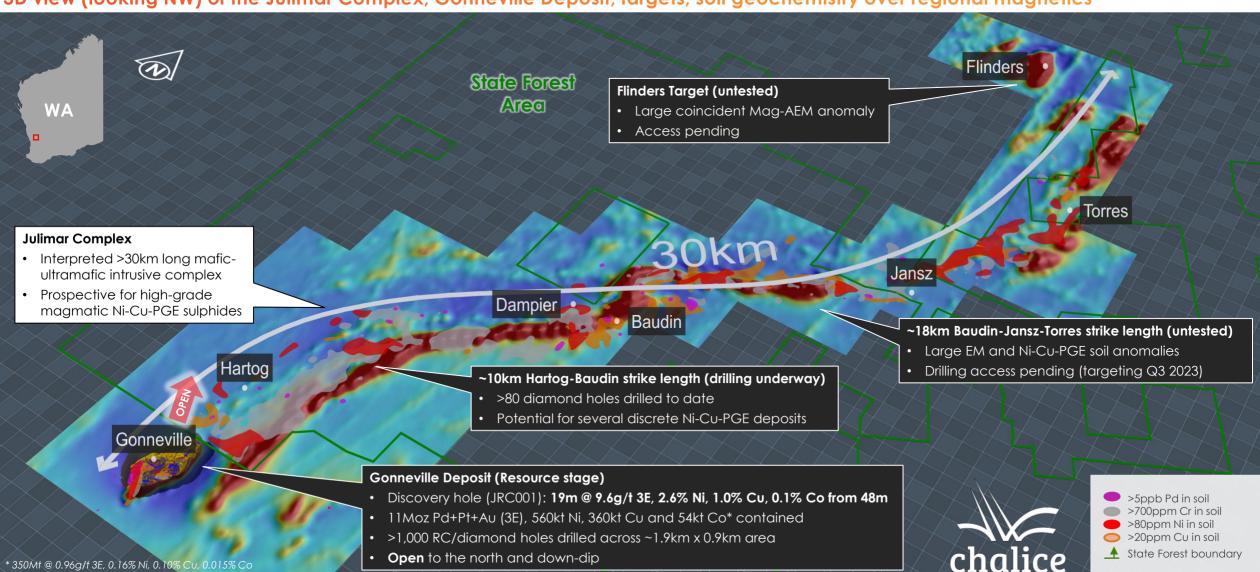
- Drilling 6-10km further north of Gonneville has intersected a Gonneville-type ultramafic horizon over ~5.5km of strike length
- All these holes have intersected highly encouraging evidence of magmatic sulphides

 Julimar is a very extensive mineral system, potentially capable of delivering multiple discoveries
- 2D seismic and drilling to date supports interpretation of Julimar having a rare chonolith-like geometry, similar to other major mineral systems like Norilsk-Talnakh (Russia) and Jinchuan (China)
- Drilling along the Complex continues with 5 rigs
- Access discussions underway for next phase of exploration along Hartog-Baudin trend
- Targeted exploration will continue in parallel to development studies for a potential mine at Gonneville on Chalice-owned farmland

The Resource occupies just ~2km of the >30km long Julimar Complex – the upside to the north has the potential to transform the project



3D view (looking NW) of the Julimar Complex, Gonneville Deposit, targets, soil geochemistry over regional magnetics



Initial drilling along the Julimar Complex and the Scoping Study for a potential mine at Gonneville represent **significant upcoming milestones**



Chalice continues its **dual strategy at Julimar** – to advance development studies and regulatory approvals for a potential mine at Gonneville, in parallel with ongoing exploration activities across the full >30km long Julimar Complex strike length...



Julimar discovery and birth of the new West Yilgarn Ni-Cu-PGE Province



significant expansion of tenure (~8,000km²) and exploration activities



Maiden Mineral Resource Estimate at Gonneville



Drilling
commences
at greenfield
targets along
>30km
Julimar
Complex



Updated
Mineral
Resource at
Gonneville –
~2.0Mt NiEq or
~20Moz PdEq



Resource
Update at
Gonneville –
incorporate
new extensional
and infill drilling



Completion of Scoping Study First step to defining the development options for Gonneville



Gonneville
Mine Proposal –
commence
major
regulatory
approvals
processes

Mar-2020 Nov-2021 Jan-2022 Jul-2022

Q1 2023 2023+

... Province scale exploration is ramping up across the new West Yilgarn Ni-Cu-PGE Province and Chalice is **exploring strategic** partnering options for Julimar

Chalice is committed to strong environmental stewardship and has established trust based relationships with local communities and Traditional Owners





We have adopted a **Biodiversity goal** for the Julimar Project – to ensure science-based **no net loss of species or habitat diversity** as a result of our operations

Delivering the Biodiversity Strategy A detailed implementation plan is under development targeting:



Connectivity Establish ecological corridors



Restoration to address habitat fragmentation



Regeneration Improve carbon seauestration



A mine at Julimar could deliver significant jobs, skills and economic diversification to the Wheatbelt region of WA



Creating lasting social and economic benefits

- ~\$1.2M local procurement and investment by Chalice, plus ~\$1.5M spend by direct contractors in the local shires surrounding the Julimar Project in FY22
- Chalice has engaged early, actively and transparently to build respectful and collaborative relationships with stakeholders



Leading practice low-impact exploration

- Strictly governed by a Conservation Management Plan, according to industry best practice
- Track mounted rigs with a small footprint and no mechanised clearing of vegetation
- Flora, fauna and cultural heritage monitoring is conducted prior to each mobilisation to site



Science-based environmental management

- Comprehensive baseline environmental surveys across 6,000ha; covering flora, fauna, and dieback
- Baseline water studies underway; Chalice recognises water is a shared resource



Building strong, collaborative relationships with Whadjuk and Yued Traditional Owners

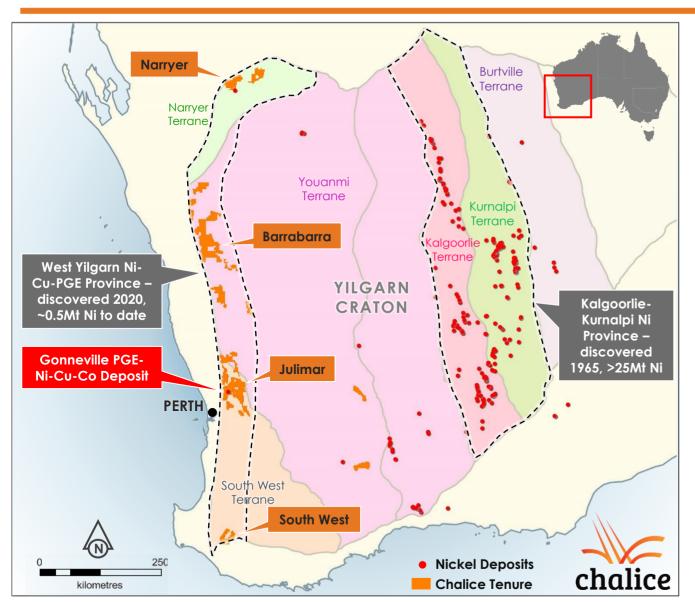


Actively engaging to protect cultural heritage values

- Whadjuk and Yued have started a program of cultural heritage surveys and monitoring for the Julimar Project
- In 2022 over 60 Traditional Owners participated in this work

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





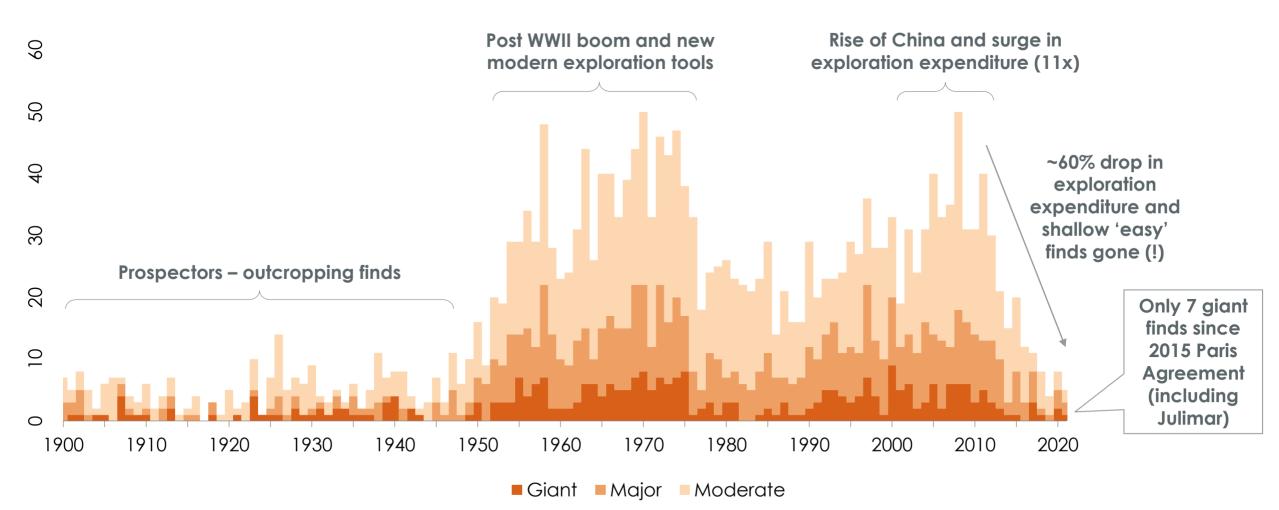
- Many of the 'giant' ortho-magmatic nickel-copper-PGE sulphide deposits such as Norilsk, Jinchuan, Thompson and Voisey's Bay are located proximal to the margin of cratons
- In WA, the Archaean age eastern Yilgarn craton-hosts several world-class nickel sulphide deposits with over 25Mt of Ni discovered since 1965
- ~1,200km long western margin of the Yilgarn presents a similar geological setting, but is almost entirely unexplored
- Chalice made the first major ortho-magmatic Ni-Cu-PGE discovery in the region (Julimar), subsequently staking >8,000km²
- Chalice has 'first mover' advantage in this exciting new province – strong potential to deliver more major Ni-Cu-PGE discoveries
- Hundreds of potential host intrusions already identified in our area – Al assisted screening and prioritisation underway
- Rapid, low-cost exploration approach being used EM, soil/auger sampling and shallow reconnaissance drilling
- Potential for highly variable mineralisation styles (Ni:Cu:PGE metal ratios) across the province
- The prize is significant i.e. Julimar discovery zone massive sulphides grading c. 3.2% Ni, 1.2% Cu, 10g/t 3E

Source: S&P Global

The fate of decarbonisation rests on the explorers who must find the green metals – **the big discoveries are very rare**



Number of base metal (Ni, Cu, Zn, Pb) discoveries in the World by size – 1900-2021



Source: MinEx Consulting © February 2023







World class, tier-1 scale 'green metals' project in Western Australia – unique exposure to critical metals required for decarbonisation



A team with a track record of discovery and shareholder value creation



Significant exploration upside at Julimar and in the exciting new West Yilgarn Ni-Cu-PGE Province





Since our 2006 IPO, we have acquired quality assets, advanced projects quickly and generated exceptional returns



2022

\$100M

raised to

progress

Julimar

studies

2022

• 2006
\$7.5M raised
in IPO on ASX
to progress
Chalice &
Higginsville
Projects

• 20
Zo

2008

2009
 Zara Gold
 Project in
 Eritrea
 acquired for
 ~A\$7M

2010

2012
Zara Gold
Project in Eritrea
sold for
US\$114M
(pre-tax)

A\$0.10ps /
~A\$25M capital
return to
shareholders

2012

2016
Cameron
Gold Project
in Ontario
sold for
~A\$25M
(pre-tax)

2016

2018
Staked
Julimar
NickelCopper-PGE
Project in
Western
Australia

2018

2020 Major PGE-NI-Cu-Co-Au discovery at Julimar Project

2020

2021
Gold spinout into
Falcon
Metals Ltd
(ASX: FAL)

2007
Chalice &
Higginsville
Projects sold
for ~A\$12M
(pre-tax)

2006

ice & raised to progress Zara to DFS

2013 Cameron Gold Project in Ontario acquired for ~A\$8M

2014

2017
Acquired East
Cadillac Gold
Project in
Quebec and
staked
Pyramid Hill
Gold Project
in Victoria

Quebec Gold Projects sold to O3 Mining

2018
A\$0.04ps /
~A\$10.6M

capital return to shareholders

2019

2020
~\$145M
raised to
progress
Julimar

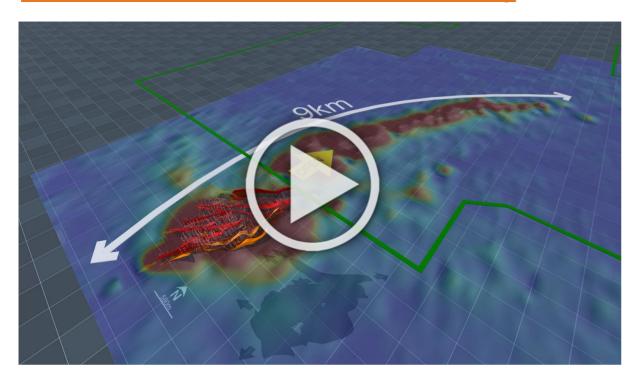
2021 Tier-1 maiden Gonneville Resource

> 2022 Upgraded Gonneville Resource

Interactive 3D Model & Video: Take a tour of our globally significant Julimar Ni-Cu-PGE Project in Western Australia



Click here to explore Julimar in 3D: https://inventum3d.com/c/chalicemining



Click here to watch the Julimar Project Video: https://youtu.be/zaparMvbb4g



Gonneville Mineral Resource Estimate (JORC Code 2012), 8 July 2022



Domain	Cut-off Grade	Category	Mass	Grade					Contained Metal										
			(Mt)	Pd (g/t)	Pt (g/t)	Au (g/t)	Ni (%)	Cu (%)	Co (%)	NiEq (%)	PdEq (g/t)	Pd (Moz)	Pt (Moz)	Au (Moz)	Ni (kt)	Cu (kt)	Co (kt)	NiEq (kt)	PdEq (Moz)
		Indicated	8.6	1.9	-	0.06	-	-	-	-	1.9	0.52	-	0.02	-	-	-	-	0.54
Oxide	0.9g/t Pd	Inferred	0.4	1.9	-	0.13	-	-	-	-	2.0	0.03	-	0.00	-	-	-	-	0.03
		Subtotal 9.1 1.9 - 0.06 1.9 0.55 - 0.02 -	-	-	-	0.57													
		Indicated	14	0.80	0.19	0.03	0.17	0.12	0.024	0.65	2.0	0.37	0.09	0.01	24	17	3	93	0.90
Sulphide (Transitional)	0.4% NiEq	Inferred	1.1	0.64	0.17	0.03	0.14	0.11	0.016	0.55	1.6	0.02	0.01	0	2	1	0	6	0.06
		Subtotal	15	0.79	0.19	0.03	0.16	0.12	0.023	0.65	1.9	0.39	0.09	0.01	25	18	4	99	0.96
	0.4% NiEq	Indicated	220	0.73	0.16	0.03	0.16	0.10	0.016	0.59	1.8	5.1	1.1	0.20	360	230	34	1,300	12
Sulphide (Fresh)		Inferred	110	0.71	0.15	0.03	0.16	0.11	0.015	0.58	1.7	2.4	0.52	0.10	170	110	16	610	5.9
		Subtotal	320	0.72	0.16	0.03	0.16	0.11	0.015	0.58	1.8	7.5	1.7	0.30	530	340	50	1,900	18
		Indicated	0.03	1.7	0.33	0.08	0.16	0.15	0.016	0.99	3.0	0	0	0	0.1	0.1	0.0	0.3	0
Underground	MSO	Inferred	2.9	1.8	0.40	0.06	0.27	0.21	0.021	1.2	3.7	0.17	0.04	0.01	7.6	6.0	0.6	35	0.34
		Subtotal	2.9	1.8	0.40	0.06	0.26	0.21	0.021	1.2	3.7	0.17	0.04	0.01	7.6	6.1	0.6	35	0.34
		Indicated	240	0.78	0.16	0.03	0.16	0.10	0.015	0.57	1.8	6.0	1.2	0.22	380	240	37	1,400	14
All		Inferred	110	0.74	0.16	0.03	0.16	0.11	0.015	0.59	1.8	2.6	0.57	0.11	180	120	1 <i>7</i>	650	6.3
		Total	350	0.77	0.16	0.03	0.16	0.10	0.015	0.58	1.8	8.6	1.8	0.33	560	360	54	2,000	20

Note some numerical differences may occur due to rounding to 2 significant figures.

PdEq oxide (Palladium Equivalent g/t) = Pd (g/t) + 1.27x Au (g/t)

NiEq sulphide (Nickel Equivalent %) = Ni (%) + 0.33x Pd(g/t) + 0.24x Pt(g/t) + 0.29x Au(g/t) + 0.78x Cu(%) + 3.41x Co(%)

PdEq sulphide (Palladium Equivalent g/t) = Pd (g/t) + 0.72x Pt(g/t) + 0.86x Au(g/t) + 2.99x Ni(%) + 2.33x Cu(%) + 10.18x Co(%)

MSO optimisation defined reasonable shapes that could be extracted by underground mining methods.

Includes drill holes drilled up to and including 18 March 2022.

Higher-grade sulphide component of Gonneville Resource (in pit and underground), 8 July 2022



Domain	Cut-off Grade	Category	Mass	Grade								Contained Metal							
			(Mŧ)	Pd (g/t)	Pt (g/t)	Au (g/t)	Ni (%)	Cu (%)	Co (%)	NiEq (%)	PdEq (g/t)	Pd (Moz)	Pt (Moz)	Au (Moz)	Ni (kt)	Cu (kt)	Co (kt)	NiEq (kt)	PdEq (Moz)
High-grade	0.6% NiEq	Indicated	4.8	1.3	0.31	0.04	0.20	0.18	0.038	0.99	3.0	0.20	0.05	0.01	10	9	2	48	0.46
Sulphide		Inferred	0.2	1.1	0.26	0.06	0.18	0.18	0.019	0.82	2.4	0.01	0.00	0.00	0	0	0	2	0.02
(Transitional)		Subtotal	5.1	1.3	0.30	0.05	0.20	0.18	0.037	0.98	3.0	0.21	0.05	0.01	10	9	2	50	0.48
	0.6% NiEq	Indicated	52	1.3	0.29	0.06	0.21	0.19	0.019	0.94	2.8	2.2	0.49	0.11	110	99	10	490	4.8
High-grade Sulphide (Fresh)		Inferred	22	1.3	0.29	0.08	0.21	0.23	0.018	0.98	2.9	0.94	0.20	0.05	46	52	4	220	2.1
,		Subtotal	74	1.3	0.29	0.07	0.21	0.20	0.019	0.95	2.9	3.1	0.69	0.16	160	150	14	710	6.9
		Indicated	0.03	1.7	0.33	0.08	0.16	0.15	0.016	0.99	3.0	0	0	0	0.1	0.1	0.0	0.3	0
Underground	MSO	Inferred	2.9	1.8	0.40	0.06	0.27	0.21	0.021	1.2	3.7	0.17	0.04	0.01	7.6	6.0	0.6	35	0.34
		Subtotal	2.9	1.8	0.40	0.06	0.26	0.21	0.021	1.2	3.7	0.17	0.04	0.01	7.6	6.1	0.6	35	0.34
		Indicated	57	1.3	0.29	0.06	0.21	0.19	0.020	0.95	2.9	2.4	0.54	0.11	120	110	12	540	5.2
All		Inferred	25	1.4	0.30	0.07	0.21	0.23	0.018	1.00	3.0	1.1	0.24	0.06	54	58	5	250	2.5
		Total	82	1.3	0.29	0.07	0.21	0.20	0.020	0.97	2.9	3.5	0.78	0.17	180	170	16	790	7.7

Note some numerical differences may occur due to rounding to 2 significant figures.

This higher-grade component is contained within the reported global Mineral Resource.

NiEq sulphide (Nickel Equivalent %) = Ni (%) + 0.33x Pd(g/t) + 0.24x Pt(g/t) + 0.29x Au(g/t) + 0.78x Cu(%) + 3.41x Co(%)

PdEq sulphide (Palladium Equivalent g/t) = Pd (g/t) + 0.72x Pt(g/t) + 0.86x Au(g/t) + 2.99x Ni(%) + 2.33x Cu(%) + 10.18x Co(%)

MSO optimisation defined reasonable shapes that could be extracted by underground mining methods.

Includes drill holes drilled up to and including 18 March 2022.

Metal equivalent assumptions of Gonneville Resource, 8 July 2022



Based on metallurgical testwork completed to date for the sulphide domain, it is the Company's opinion that all the quoted elements included in metal equivalent calculations (palladium, platinum, gold, nickel, copper and cobalt) have a reasonable potential of being recovered and sold.

Only limited samples have been collected from the transitional zone due to its relatively small volume. Therefore, the metallurgical recovery of all metals in this domain are unknown. However, given the relatively small proportion of the transition zone in the Mineral Resource, the impact on the metal equivalent calculation is not considered to be material.

Metal equivalents for the sulphide domains are calculated according to the formula below:

- NiEq (%) = Ni (%) + 0.33x Pd (g/t) + 0.24x Pt (g/t) + 0.29x Au (g/t) + 0.78x Cu (%) + 3.41x Co (%);
- " PdEq(g/t) = Pd(g/t) + 0.72x Pt(g/t) + 0.86x Au(g/t) + 2.99x Ni(%) + 2.33x Cu(%) + 10.18x Co(%)

Metal recoveries used in the metal equivalent calculations are based on rounded average Resource grades for the higher-grade sulphide domain (>0.6% NiEq cut-off):

Value of the control of the contr

Metal prices used are used are consistent with those used in the Whittle pit optimisation (based on long term consensus analyst estimates):

« US\$1,800/oz Pd, US\$1,300/oz Pt, US\$1,800/oz Au, US\$22,000/t Ni, US\$10,500/t Cu and US\$75,000/t Co.

Initial metallurgical testwork indicates that only palladium and gold are likely to be recovered in the oxide domain, therefore no NiEq grade has been quoted for the oxide. The PdEq grade for the oxide has been calculated using the formula:

" $PdEq oxide (g/t) = Pd (g/t) + 1.27 \times Au (g/t).$

Metal recoveries based on limited metallurgical test work completed to date:

- « Pd 75%, Au 95%.
- « Metal prices used are consistent with those used in the pit optimisation:
 - ((US\$1,800/oz Pd, US\$1,800/oz Au

For additional information on the assumptions used in the calculation of metal equivalents, refer to the ASX announcement titled "Updated Gonneville Mineral Resource" dated 8 July 2022.

Australian Primary Nickel Sulphide Resources (1 Feb 2023)



						Total Measured (Meas.), Indicated (Ind.) and Inferred (Inf.) resources									Ind.	Inf.
Rank	Asset	Company	Stage	Source Announcement	Date	Tonnage (Mt)	Nickel (kt, %)	Copper (kt, %)	Cobalt (kt, ppm)	Gold (koz, g/t)	Platinum (koz, g/t)	Palladium (koz, g/t)	Silver (koz, g/t)	Tonnage (Mt)	Tonnage (Mt)	Tonnage (Mt)
1	Yakabindie	ВНР	Feasibility	Annual Report to Shareholders	06-Sep-22	406	2,474 0.61%	-	-	-	-	-	-	129.6	106	 170
2	West Musgrave	OZ Minerals	Feasibility	West Musgrave Mineral Resource and Ore Reserve Statement	23-Sep-22	390	1,200 0.30%	1,300 0.33%	47 120	752 0.06	1,003 0.08	1,129 0.09	10,659 0.85	91	240	59
3	Cosmos	IGO	Development	FY22 Cosmos and Forrestania Resources and Reserves	30-Aug-22	67	656 0.98%	-	-	-	-	-	-	13.6	38.9	14.5
4	Julimar	Chalice	Exploration	Updated Gonneville Mineral Resource	08-Jul-22	350	560 0.16%	360 0.10%	54 154	330 0.03	1,800 0.17	8,600 0.77		-	240	110
5	Avebury Restart	Mallee Resources	Restart	Updated Investor Presentation	07-Jul-22	29	264 0.90%	-	7 229	-	-	-	-	-	8.7	20.7
6	Black Swan	Poseidon	Restart	Full Steam Ahead for Black Swan Restart	15-Dec-22	30	206 0.69%	7 0.02%	5 178	-	-	-	-	1.5	10.1	18.3
7	West Jordan	ВНР	Exploration	Annual Report to Shareholders	06-Sep-22	43	224 0.52%	- -	-	-	-	-	-	-	-	43
8	Venus	ВНР	Exploration	Annual Report to Shareholders	06-Sep-22	11	189 1.71%	-	-	-	-	-	-	1.5	7.5	2.1
9	Jericho	ВНР	Exploration	Annual Report to Shareholders	06-Sep-22	31	183 0.59%	-	-	-	-	-	-	-	-	31
10	Fisher East	Cannon Resources	Exploration	Fisher East Resource Increased to 134.1kt Contained Nickel	15-Aug-22	8	134 1.79%	-	-	-	-	-	-	-	2.8	4.7
11	Sherlock Bay	Sabre Resources	Exploration	Sherlock Bay Ni Scoping Study Delivers Positive Cashflow	17-Jan-23	25	99 0.40%	22	5 220	-	-	-	-	12.5	6.1	6.1

Long term PGE demand forecast: supporting assumptions & calculations



The long term PGE demand impact from the Hydrogen economy have been generated by Company analysis using assumptions and forecasts that have been informed by recent third party research. The assumptions used below relate to the year 2040. Note: There is the potential risk that these projections will not be achieved should the adoption of a hydrogen economy be less than expected or if major technological developments reduce the PGE loadings required for electrolysers and fuel cells.

Key Model Inputs (2040)

Technology	Input	Unit	Assumption	PGE Demand Calculation				
	Capacity	GW	70					
PEM electrolyser	Market share	%	75	$70 \times 75\% \times 0.5 / 31.1^{(1)} = ~ 0.8 \text{Moz}$				
	PGE loading	g/kW	0.5					
	Light vehicle market	million per annum	100					
Light Vehicles	Light FCEV market share	%	12	- 100 x 12% x 80 x 0.13 / 31.1 ⁽¹⁾ = ~4.0 Moz				
Ligiti veriicies	Light vehicle rating	kW	80	- 100 x 12/6 x 60 x 0.13 / 31.11 - ~4.0 MOZ				
	PGE loading	g/kW	0.13					
	Heavy vehicle market	million per annum	7					
Hogyny Vobiolos	Heavy FCEV market share	%	40	- 7 x 40% x 250 x 0.13 / 31.1 ⁽¹⁾ = ~2.9 Moz				
Heavy Vehicles	Heavy vehicle rating	kW	250	- / x 40/0 x 230 x 0.13 / 31.1111 - ~2.7 MOZ				
	PGE loading	g/kW	0.13					

Source: 'Provision of PGM market intelligence and long-term metal price forecasts', SFA Oxford, April 2020 & 2021

^{&#}x27;Strategy Update', AngloAmerican Platinum, 22 February 2021

^{&#}x27;Australian and Global Hydrogen Demand Growth Scenario Analysis', Deloitte & COAG Energy Council, November 2019

^{&#}x27;Fuelling the Future of Mobility' Deloitte & Ballard, 2020

^{&#}x27;Committed to producing green metals', Green Metals & Hydrogen Conference, Sibanye Stillwater, 26 Nov 2021



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