



An emerging critical minerals province in Western Australia

RIU Explorers Conference

13 FEBRUARY 2024

ASX:CHN



Cautionary statements and competent person(s) disclosure

Authorisation

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

Disclaimer

This Presentation does not provide investment or financial product advice and does not include all available Information on Chalice Mining Limited ("Chalice" or "the Company") and should not be used in isolation as a guide to investing in the Company. This Presentation is not a prospectus, disclosure document or other offering document under Australian law or under any other law. It is provided for information purposes and is not an invitation nor offer of shares or recommendation for subscription, purchase or sale in any jurisdiction. This Presentation does not purport to contain all the information that a prospective investor may require in connection with any potential investment in the Company. Any potential investor should also refer to Chalice Mining Limited's Annual Reports, ASX releases, and take independent professional advice before considering investing in the Company. For further information about Chalice Mining Limited, visit our website at chalicemining.com

Whilst care has been exercised in preparing and presenting this Presentation, to the maximum extent permitted by law, the Company and its representatives:

- Make no representation, warranty or undertaking, express or implied, as to the adequacy, accuracy, completeness or reasonableness of this Presentation;
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Cautionary statement

This Presentation includes information extracted from the Company's ASX announcement dated 29 August 2023, titled "Gonneville Nickel-Copper-PGE Project Scoping Study".

For the production targets and forecast financial information for the 15Mtpa Case scenario (modelled LOM - 19 years), Inferred Resources comprise 14% of the production schedule over the modelled Life of Mine (LOM). For the 30Mtpa Case scenario (modelled LOM - 18 years), Inferred Resources comprise 37% of the production schedule over the modelled Life of Mine (LOM). Significantly, in both the 15Mtpa Case and 30Mtpa Case scenarios, the Inferred Mineral Resources do not play a prominent role in the initial mine plan. Throughout the first 15 years of production, the Inferred Mineral Resources constitute less than ~20% in both production schedules. Accordingly, Chalice has concluded that it is satisfied that the financial viability of both development cases modelled in the Scoping Study is not dependent on the inclusion of Inferred Resources early in the production schedule given an estimated payback period (from commencement of production) of ~2 years for the 15Mtpa Case and the 30Mtpa Case.

There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of Indicated Mineral Resources or that the production targets themselves will be realised

Forward-Looking Statement

This Presentation may contain forward-looking statements and forward information, (collectively, forward-looking statements). These forward-looking statements are made as of the date of this Annual Report 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 Gonneville Project's capital payback; the Company's planned strategy and corporate objectives; objectives of the strategic partnering process; the realisation of Mineral Resource Estimates; anticipated production; sustainability initiatives; climate change scenarios; 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; planned production and operating costs profiles; planned capital requirements; 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, "aiming", "anticipate", "considered", "continue", "could", "estimate", "expected", "for", "forecast", "future", "intend", "indicates", "is", "likely", "may", "objectives", "optionality", "outlook", "open", "plan" or "planned", "potential", "strategy", "target", "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 geophysical and geochemical 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; successful completion of the strategic partnering process; changes in commodity prices and 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 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.

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.

Cautionary statements and competent person(s) disclosure (cont'd.)



Reliance on Third Party Information

The views expressed in this Presentation contain information that has been derived from third party sources that have not been independently verified. No representation or warranty is made as to the accuracy, completeness or reliability of the information.

Mineral Resources Reporting Requirements

As an Australian Company with securities quoted 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 mineral resources in Australia is in accordance with the JORC Code and that Chalice's mineral resource estimates comply with the JORC Code. The requirements of JORC Code differ in certain material respects from the disclosure requirements of other countries. The terms used in this announcement are as defined in the JORC Code. The definitions of these terms may differ from the definitions of such terms for purposes of the disclosure requirements in other countries.

Competent Person(s) Statement

The information in this Presentation that relates to previously reported exploration results is extracted from the following ASX announcements:

- "High-grade nickel-copper-palladium sulphide intersected at Julimar Project in WA", 23 March 2020.
- "Significant Nickel-Palladium Discovery Confirmed at Julimar", 15 April 2020.
- "Significant Extension of High-Grade Zones at Julimar", 17 August 2020.
- "Significant High-Grade PGE-Cu-Au Extensions at Julimar", 18 November 2020.
- "Julimar Continues to Grow with Four New High-grade Zones", 27 January 2021.
- "Continuous high-grade zones confirmed at Julimar", 2 July 2021.
- "Twelfth High-Grade Zone Defined at Julimar", 2 August 2021.
- "New Results Highlight Underground Potential at Julimar", 2 March 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.
- "Gonneville Resource increases by approx. 50% to 3Mt NiEq", 28 March 2023.
- "Further early-stage exploration success north of Gonneville", 3 May 2023.
- "New wide high-grade zones in ~900m step-out drill hole", 31 July 2023.
- "Gonneville Nickel-Copper-PGE Project Scoping Study", 29 August 2023.
- "High-grade copper-PGE zones extended at Gonneville", 30 November 2023.

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

- "Gonneville Resource increases by approx. 50% to 3Mt NiEq", 28 March 2023

The above announcements are available to view on the Company's website at [chalicemining.com](https://www.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.

Production Targets and Forecast Financial Information

The production targets and forecast financial information disclosed in this Presentation is extracted from the Company's ASX announcement "Gonneville Nickel-Copper-PGE Project Scoping Study", dated 29 August 2023.

All material assumptions underpinning the production targets and forecast financial information derived from the production targets in the previous announcement continue to apply and have not materially changed.

Why Chalice? We own one of the **largest critical minerals deposits in the western world** and are unlocking a new mineral province

Strong financial position

- ~\$112M in cash and no debt¹
- No need to raise capital in the foreseeable future

Unique tier-1 Gonneville Resource

- 100% ownership of the largest undeveloped palladium resource and one of the largest critical minerals discoveries in the western world
- 16Moz of Pd-Pt-Au (3E), 860kt Ni, 520kt Cu, 83kt Co contained²

Compelling value and leverage

- Trading at extremely low EV/resource metrics – \$8/oz PdEq³
- ~\$180M spent to date on Gonneville drilling, testwork, studies and acquiring ~24km² of surrounding farmland – current EV ~\$250M
- Commodity prices at cyclical lows – high leverage to price recovery

Highly competitive cost profile

- Predicted to become lowest cost PGE mine in the western world and 2nd quartile globally (after by-product credits)
- Shallow, simple open-pit mining and sulphide mineralogy

Low risk project

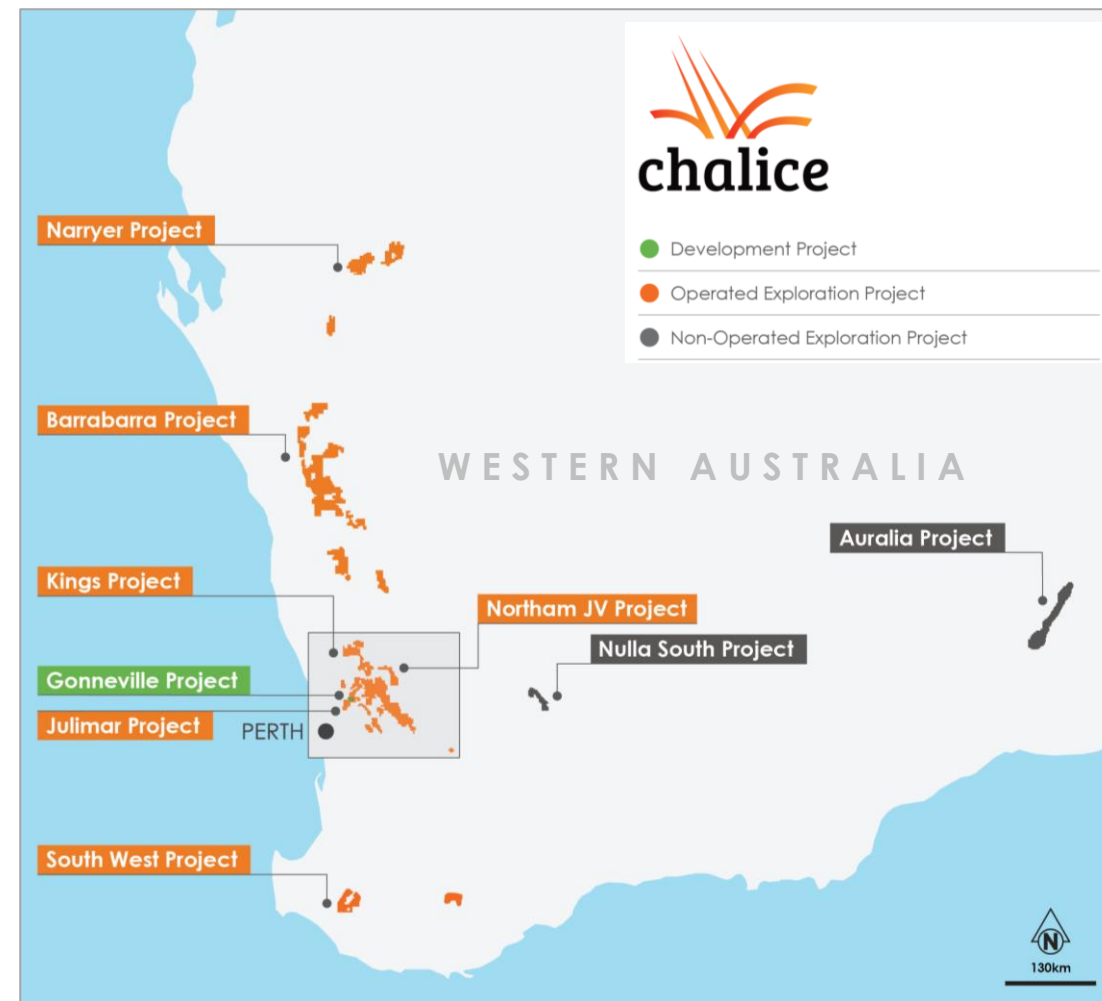
- Location ~70km from Perth, WA – excellent infrastructure and jurisdiction
- IRA⁴ compliant metals
- Pre-Feasibility Study underway (targeting mid 2025 completion) – high-grade starter case, capital phasing and optimisations underway

Exceptional exploration upside

- >9,600km² of surrounding licence area, essentially unexplored
- Province hosts >40Moz Boddington gold mine, >2.5Mt Greenbushes lithium mine as well as >30Moz PdEq Gonneville deposit

Team

- Board and management team with track record of discovery and large-scale project development
- Significant insider ownership and stable share register



1. As of 31 Dec 2023 2. 560Mt @ 0.88g/t Pd+Pt+Au (3E), 0.16% Ni, 0.09% Cu, 0.015% Co (Refer to the Mineral Resources Statement in Appendix).

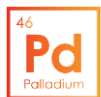
3. PdEq (Palladium Equiv.) g/t = Pd(g/t)+0.67xPt(g/t)+1.17xAu(g/t)+3.11xNi(%) +2.57xCu(%) +9.33xCo(%). 4. United States Inflation Reduction Act

Why palladium? Hybrid electric vehicles – the ‘best of both worlds’ solution will **drive strong demand for palladium and battery metals**

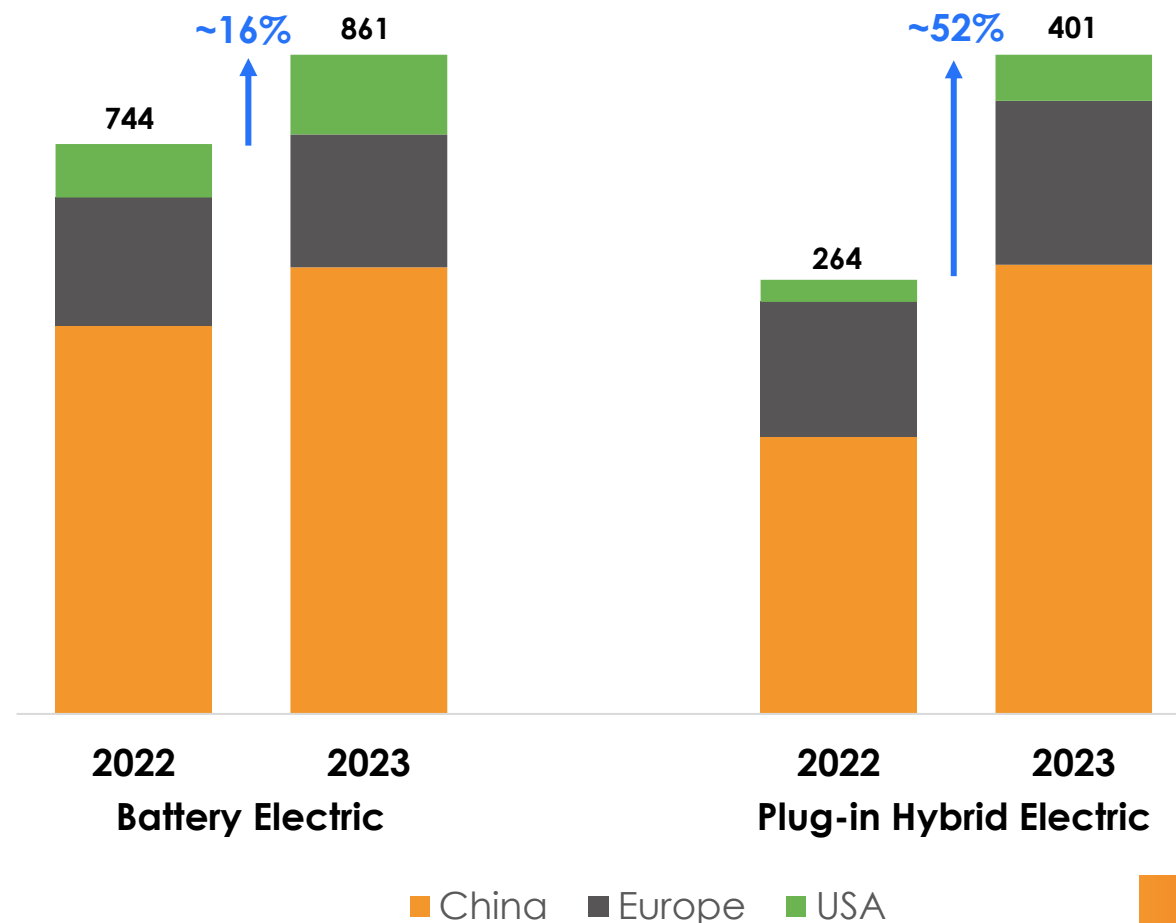
- Sales of battery electric vehicles (BEVs) are growing at 16% p.a., whilst **sales of plug-in hybrid electric vehicles (PHEV) are growing at three times the rate (52% p.a.)**
- Consumers are favouring PHEVs over BEVs due to their **lower cost, longer range and the lack of charging infrastructure**
- Major car manufacturers, such as **Toyota, Ford and Hyundai**, are scaling up PHEV production to meet growing demand



- PHEVs typically have a **palladium based catalytic converter and a nickel-cobalt chemistry battery (NCA or NCM)**

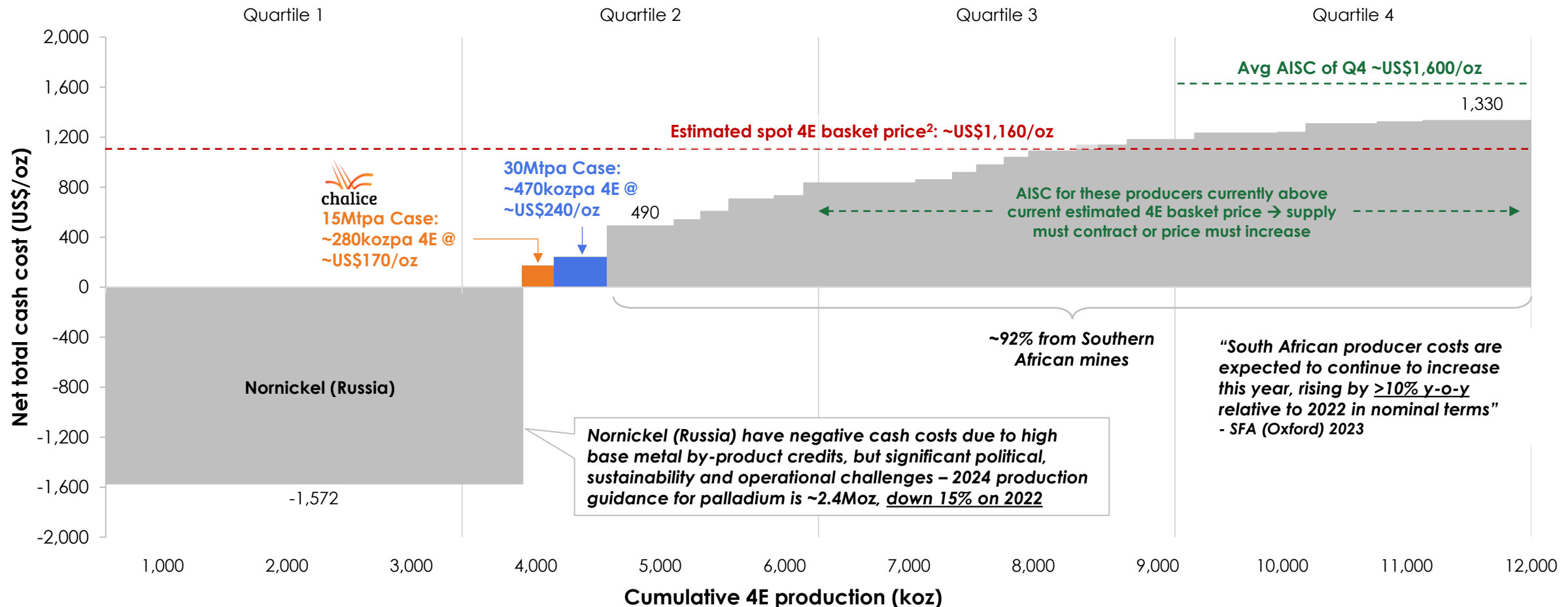


Electric vehicle sales, Sept 2022-2023 ('000s)



Why palladium? **Spot price is at ~50th percentile of the cost curve** and Russia-South Africa dominate supply – clear supply chain risks

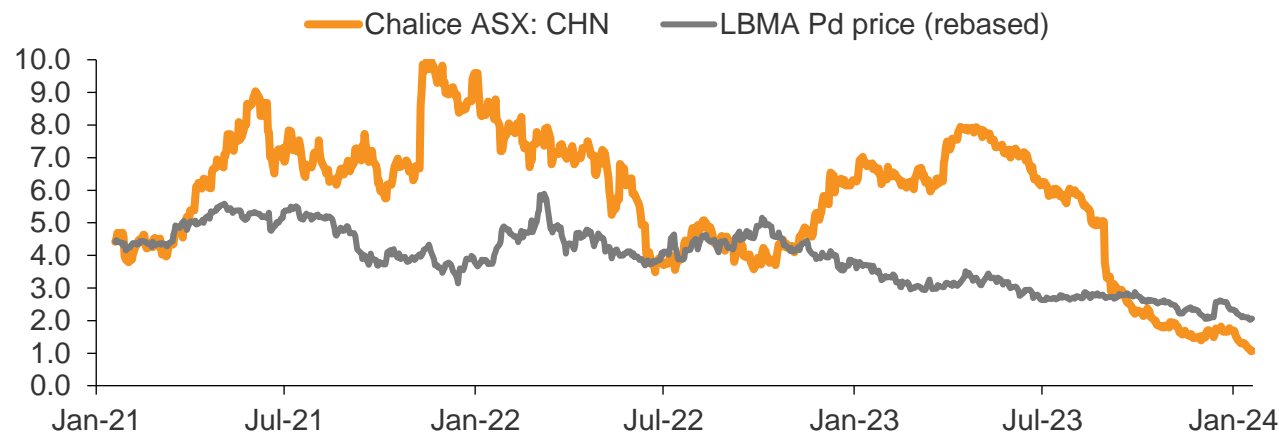
PGE Industry Cost Curve – Net total cash costs per 4E oz (after by-product credits), CY2022, US\$/oz²



Source: 2022 SFA (Oxford) Ltd collated costs and revenues used for 4E cost curve data. Note: 1. 4E cost curve positioning assumes average 2022 by-product commodity prices of: Copper US\$10,105/t, Nickel US\$25,000/t, Iridium US\$4,400/oz, Ruthenium US\$550/oz, Chrome 42% CIF US\$300/t. AME forecast Cobalt price of US\$46,407/t has been assumed given not disclosed in SFA data. Above cash costs will differ to that presented elsewhere given the difference in commodity prices assumed for by-products calculation. 2. Estimated weighted average 4E basket price calculated using spot prices as at 31 January 2024. 3 Nornickel press release 29 January 2024

Why now? Palladium prices are at cyclical lows, vehicle sales are strong and **Chalice has a high degree of leverage to price recovery**

3yr performance¹



China-US-EU total ICE+hybrid vehicle sales (000's, monthly)²



Upcoming catalysts

1. **PGE price recovery driven by slowing BEV uptake and growing ICE/hybrid sales**
2. **Strategic partnering process for Gonneville** – positive progress made and active discussions ongoing
3. **Gonneville high-grade sulphide resource update** to suit selective open-pit / underground mining methods – targeting **March 2024**
4. Investigating **high-grade, staged open-pit / underground starter cases** in the initial phase of the Pre-Feasibility Study (targeting Q2 2024)
5. **High-priority greenfield exploration in new mineral province underway** – two rigs drilling along strike from Gonneville Resource and RC drilling continuing at the Barrabarra Project



Gonneville Project

Project update and priorities

Gonneville high-grade starter cases, regional exploration drilling and the ongoing strategic partnering process represent **potential catalysts**



Milestones achieved to date



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



Mar-2020



Significant expansion of tenure (>8,000km²) and exploration activities



Maiden Mineral Resource Estimate at Gonneville



Nov-2021

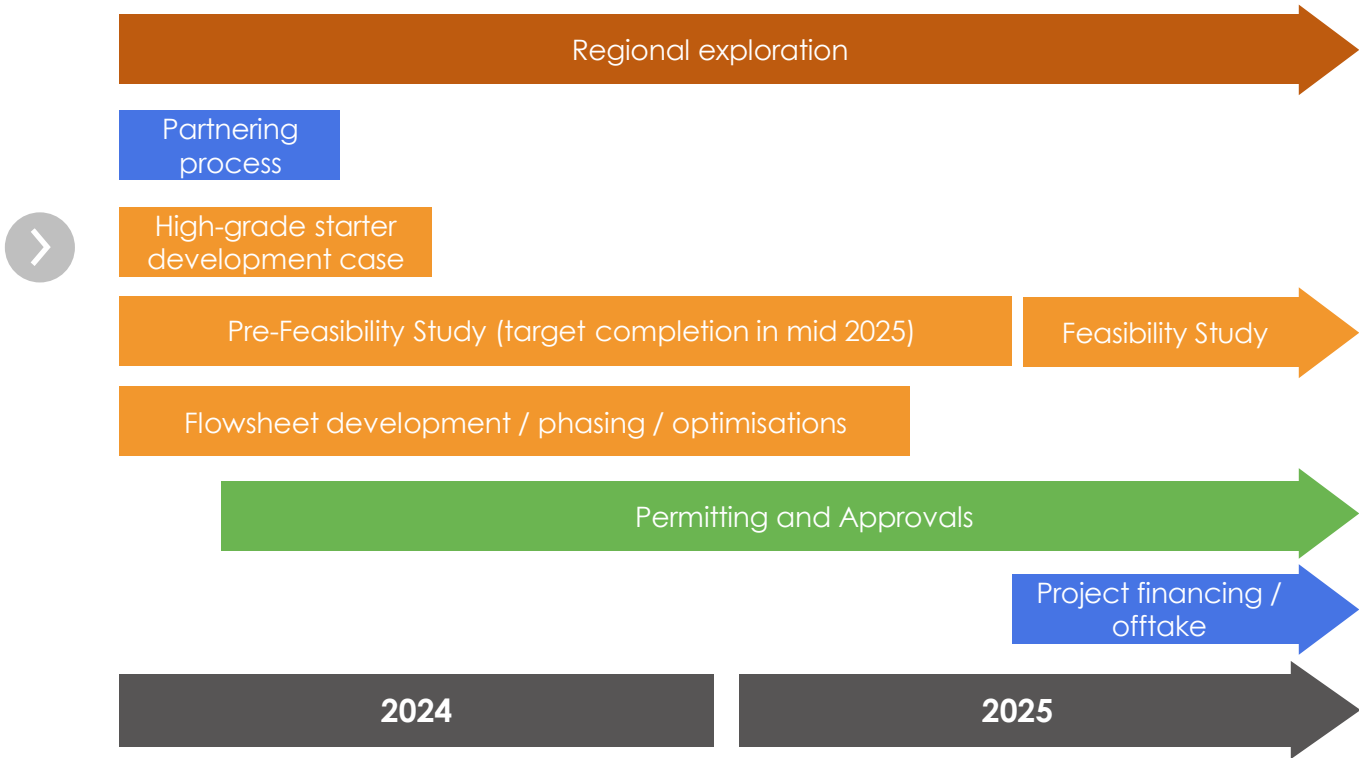


Completion of Gonneville Scoping Study



Aug-2023

Forward Plan¹



Chalice is fully funded to progress key development and exploration activities that will ultimately drive long-term value for shareholders, despite current market volatility

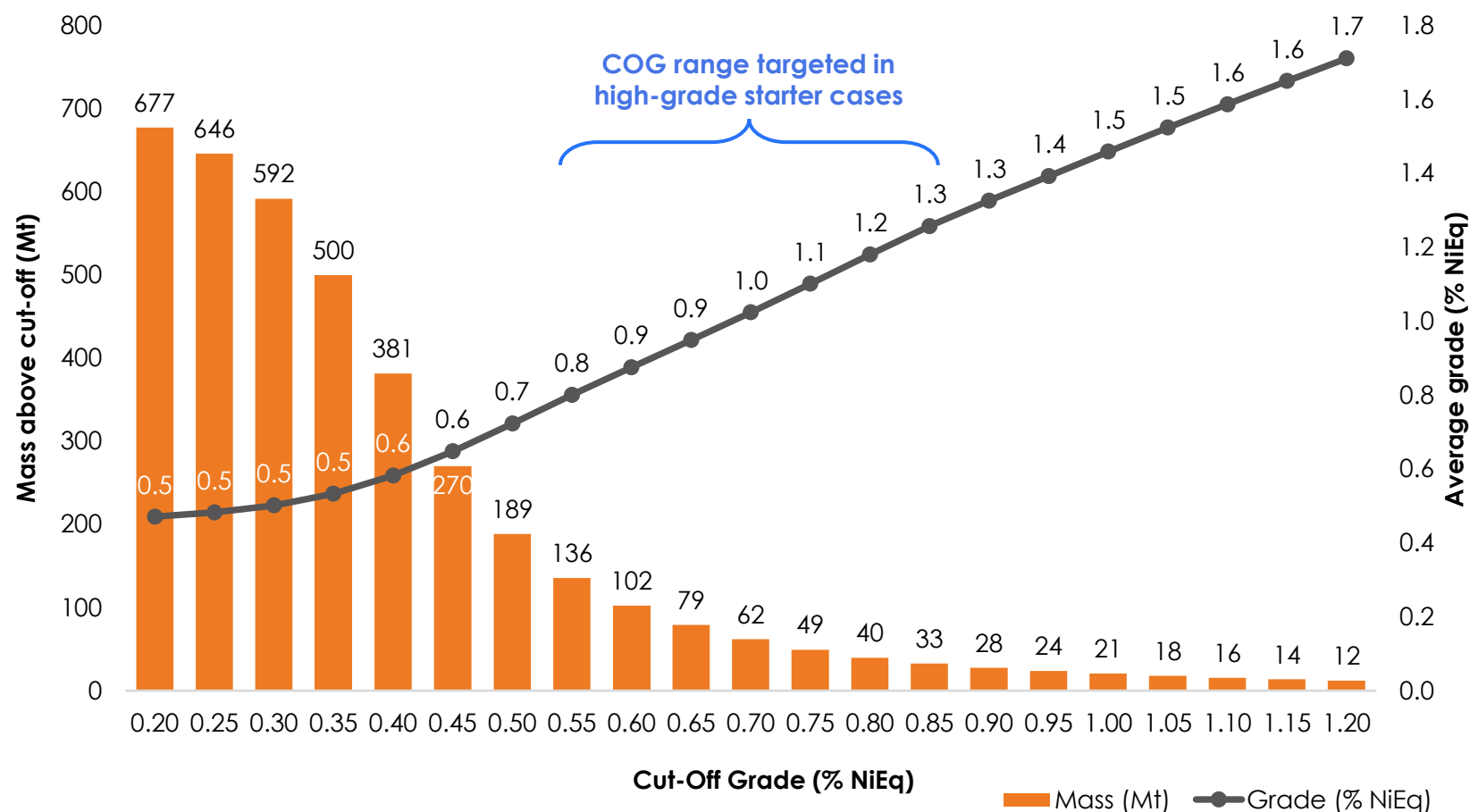
1. Project study, approvals and development timeline is indicative. There is no assurance that the strategic partnering process will result in a transaction

The **rare, tier-1 scale** Gonneville Resource has **high-grade optionality** and **compelling growth potential**

Mineral Resource Estimate¹:

- **560Mt @ 0.88g/t 3E (Pd+Pt+Au), 0.16% Ni, 0.09% Cu, 0.015% Co (~0.54% NiEq or ~1.7g/t PdEq)**
- **16Moz 3E, 860kt Ni, 520kt Cu and 83kt Co (~3.0Mt NiEq or ~30Moz PdEq)** contained
- Resource located on **Chalice-owned farmland**
- Resource is defined to depth of ~800m, remains **open at depth**
- Resource modelled assuming a bulk open-pit mining approach – **remodelling now underway to refine selective approaches at higher cut-off grades**

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



1. For tonnes and grade by confidence category and metal equivalent assumptions, refer to the Mineral Resource Statement in Appendix

High-grade base metal rich mineralisation near surface is targeted with the **starter cases currently being modelled**

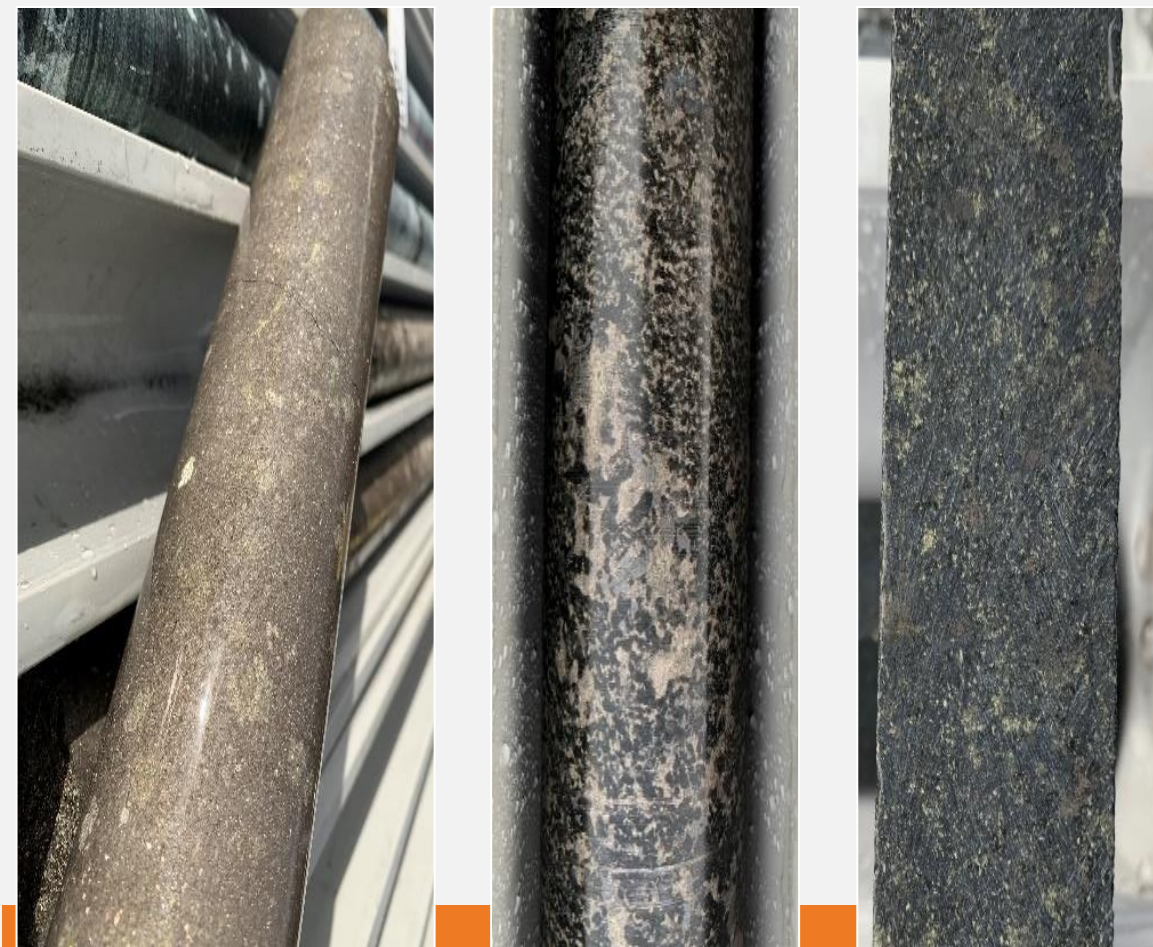


Gonneville hosts a range of sulphide mineralisation styles, starting near surface:

- High-Sulphide / base metal-rich mineralisation (>**1.0% NiEq**, 20-100 vol% sulphide)
- Low-Sulphide PGE-rich mineralisation (**0.6-1.0% NiEq**, ~3-10 vol% sulphide)
- Low-Sulphide disseminated mineralisation (**0.2-0.6% NiEq**, ~1-3 vol% sulphide)

The high-grade starter cases will target the shallow base metal rich zones at the southern end of the Resource; zones such as (>0.6% NiEq cut-off):

- **7.9m** @ 10.69g/t 3E, 0.56% Ni, 4.74% Cu, 0.05% Co (**7.9% NiEq**) from **90.5m** (JD402)
- **25m** @ 9.53g/t 3E, 2.02% Ni, 0.88% Cu, 0.11% Co (**6.05% NiEq**) from **46m** (JRC001)
- **14.4m** @ 9.48g/t 3E, 1.17% Ni, 0.59% Cu, 0.07% Co (**4.72% NiEq**) from **36.7m** (JD016)
- **23m** @ 4.44g/t 3E, 0.74% Ni, 0.43% Cu, 0.04% Co (**2.59% NiEq**) from **40m** (JRC006D)
- **25m** @ 3.52g/t 3E, 0.18% Ni, 1.08% Cu, 0.02% Co (**2.25% NiEq**) from **67m** (JD203)
- **15m** @ 10.9g/t 3E, 0.13% Ni, 0.14% Cu, 0.01% Co (**3.68% NiEq**) from **78m** (JRC121)
- **15.3m** @ 7.16g/t 3E, 0.69% Ni, 0.37% Cu, 0.05% Co (**3.3% NiEq**) from **80.7m** (JD010)
- **20.4m** @ 3.78g/t 3E, 0.66% Ni, 0.43% Cu, 0.04% Co (**2.27% NiEq**) from **60.6m** (JD015)
- **13.7m** @ 5.27g/t 3E, 0.68% Ni, 0.68% Cu, 0.05% Co (**2.98% NiEq**) from **29.3m** (JD006)
- **15m** @ 5.12g/t 3E, 0.47% Ni, 0.72% Cu, 0.03% Co (**2.7% NiEq**) from **84m** (JRC228)
- **10m** @ 9.11g/t 3E, 0.74% Ni, 0.33% Cu, 0.05% Co (**3.93% NiEq**) from **48m** (JD087)
- **7m** @ 14.57g/t 3E, 0.22% Ni, 0.23% Cu, 0.02% Co (**5.13% NiEq**) from **83m** (JRC064)
- **9.8m** @ 5.86g/t 3E, 1.15% Ni, 0.58% Cu, 0.07% Co (**3.63% NiEq**) from **28m** (JD014)
- **10.7m** @ 5.75g/t 3E, 0.86% Ni, 0.52% Cu, 0.04% Co (**3.18% NiEq**) from **50m** (JD026)

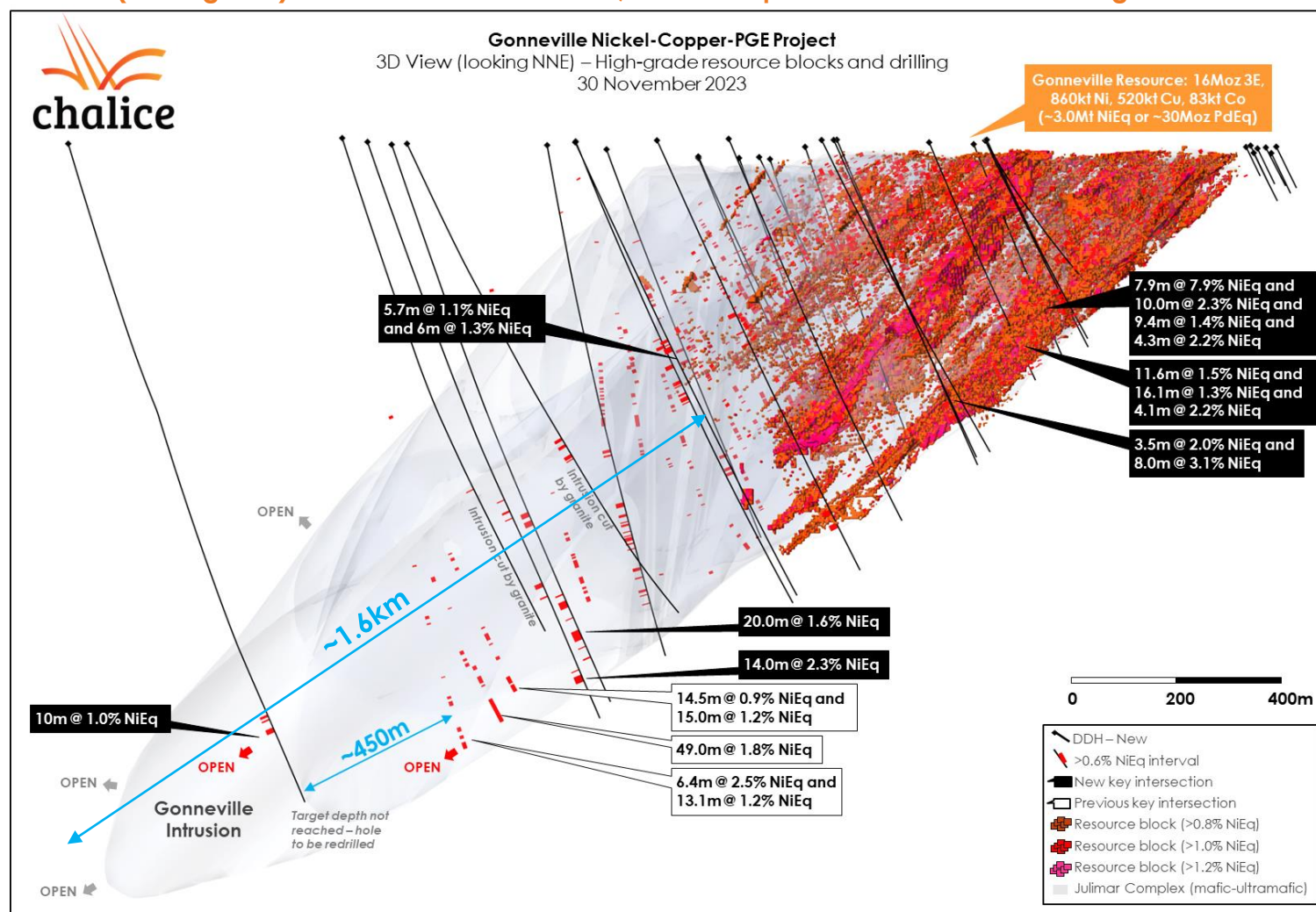


Shallow base metal rich core specimens (G1, G2 and G4 zones)

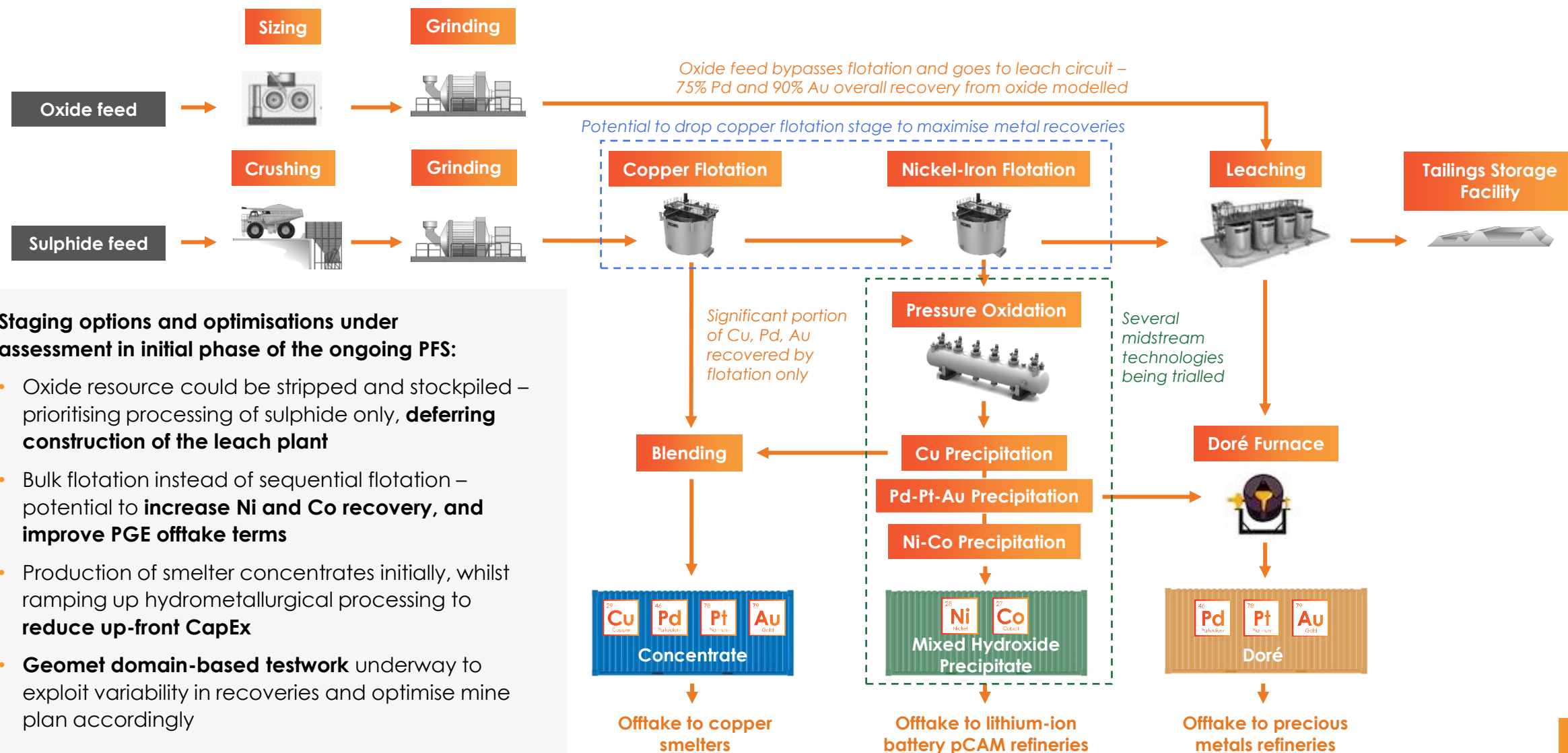
The scale of the Resource points to **very long life, large-scale** open-pit and underground mining operation

- The **500-600m thick** Gonneville Intrusion is interpreted to extend a further **~1.6km down-dip** to the WNW beyond the Resource
- Recent step-out drilling has demonstrated high-grade Cu-PGE zones at depth:
 - 34m @ 7.02g/t 3E, 0.16% Ni, 0.63% Cu, 0.02% Co (2.89% NiEq)** from 432m (JD377)
 - 49m @ 3.87g/t 3E, 0.22% Ni, 0.43% Cu, 0.02% Co (1.81% NiEq)** from 1135m (JD369W3)
 - 29m @ 4.06g/t 3E, 0.22% Ni, 0.32% Cu, 0.02% Co (1.76% NiEq)** from 507m (JD389)
 - 8.0m @ 5.83g/t 3E, 0.15% Ni, 1.12% Cu, 0.01% Co (3.05% NiEq)** from 543m (JD415)
 - 20m @ 3.2g/t 3E, 0.14% Ni, 0.55% Cu, 0.02% Co (1.62% NiEq)** from 994m (JD425)
 - 14m @ 5.72g/t 3E, 0.19% Ni, 0.36% Cu, 0.02% Co (2.30% NiEq)** from 1096m (JD426)
 - 6.4m @ 3.59g/t 3E, 0.36% Ni, 1.18% Cu, 0.02% Co (2.51% NiEq)** from 1188.6m (JD369W1)
- Early underground mining options** being investigated – **provides a material opportunity to potentially improve project economics**
- Testwork also shows that **flotation recoveries are significantly higher on high-grade vs average modelled feed grades**

3D view (looking NNE) of the Gonneville Intrusion, >0.8% NiEq Resource blocks and drilling



Process flowsheet combines proven technologies with staging options being evaluated in the initial phase of the PFS



A close-up photograph of a person's hand wearing a grey nitrile glove, using a black pen with a red eraser to mark a dark, cylindrical rock sample. The sample is resting in a white plastic tray with several other similar samples. Some of the other samples are marked with red lines. In the background, there are more trays containing various rock samples, some of which are labeled with handwritten numbers like '16329' and '10347'. The text 'Regional Exploration' is overlaid in white on the center of the image.

Regional Exploration

Chalice has defined **40+ Ni-Cu-PGE and Cu-Au-Ag targets** in the West Yilgarn Province – near-term focus on copper and precious metal targets



Barrabarra Project

Barrabarra Nickel-Copper-PGE Exploration Project, WA (100% owned + Koojan earn-in to 80%)

- 69,000 line-km high resolution airborne magnetic survey complete
- 6,900 line-km airborne gravity gradiometry survey complete
- RC drilling 8 priority greenfield targets underway (all assays pending)

Kings Project

Kings Nickel-Copper-PGE Exploration Project, WA (100% owned + Bolgart earn-in to 75%)

- 7 new early-stage targets identified with AEM/MLM and geochemistry
- AC drilling priority greenfield targets in Q1 2024

Northam JV Project

Northam Nickel-Copper-PGE Exploration Joint Venture Project (Earn-in to 70%)

- Recent earn-in over ~1,600km² licence holding contiguous with Chalice's existing tenure
- 34,000 line-km high resolution airborne magnetic survey completed
- 28 early-stage Ni-Cu-PGE target areas identified
- MLM underway on 9 areas to define drill-ready targets

~1,200km long western margin of the Yilgarn craton is highly prospective for orthomagmatic Ni-Cu+/-PGE, Intrusion-related / orogenic gold-copper and lithium-caesium-tantalum pegmatite deposits but **is almost entirely unexplored**

Narryer Project

Julimar Project

Julimar Ni-Cu-PGE Exploration Project (100% owned)

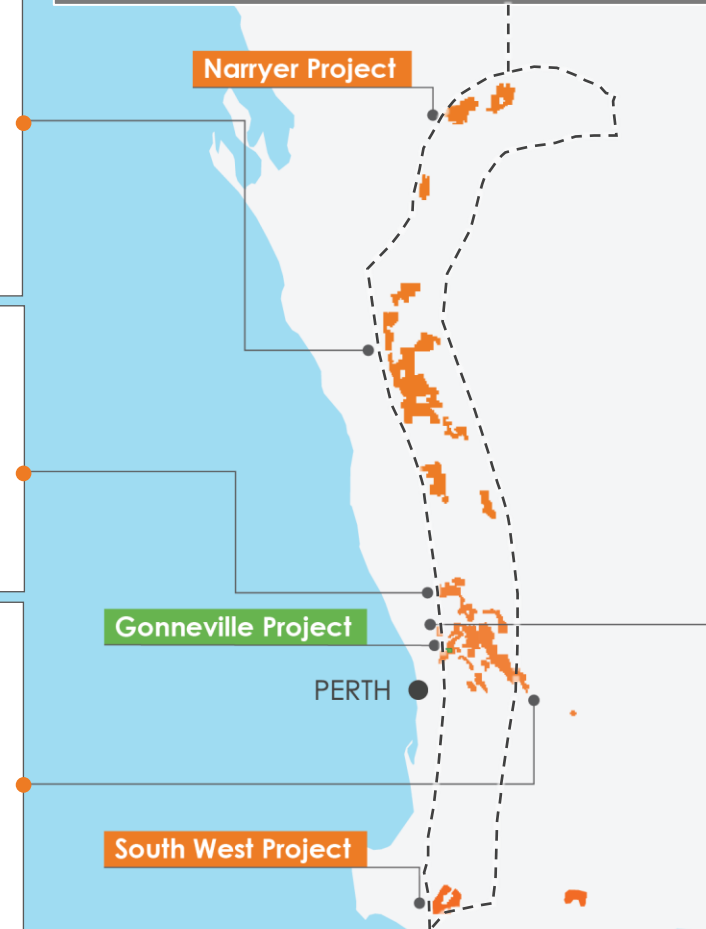
- Several high-grade zones intersected over ~10km strike length to date, confirming the Julimar Complex hosts a large-scale mineral system with potential for multiple discrete Ni-Cu-PGE deposits
- Exploration drilling underway (reconnaissance diamond and broad spaced AC)

Gonneville Project

South West Project

WESTERN AUSTRALIA

- Development Project
- Operated Exploration Project



200km

Summary



Chalice owns 100% of a new long-life, low-cost, low-carbon *green metals* project in WA



Chalice's team has a track record of discovery and value creation



There is significant exploration upside across the exciting new West Yilgarn Ni-Cu-PGE Province

Key value drivers and upcoming catalysts

1. **PGE price recovery** driven by slowing BEV uptake and growing ICE/hybrid sales
2. **Strategic partnering process for Gonneville** – positive progress made and active discussions ongoing
3. **Gonneville high-grade sulphide resource update** to suit selective open-pit / underground mining methods – **targeting March 2024**
4. Investigating **high-grade, staged open-pit / underground starter cases** in the initial phase of the Pre-Feasibility Study (targeting Q2 2024)
5. **High-priority greenfield exploration** in new mineral province underway



Appendix



Chalice is a **globally recognised explorer** with a highly regarded Board and management team



Our Achievements

- World class Gonneville Ni-Cu-PGE discovery recognised with PDAC **Thayer Lindsley Award** (2023) and AMEC **Prospector of the Year Award** (2022)
- RIU **Craig Oliver Award** (2021), MNN **Explorer of the Year** (2021) and D&D **Emerging Company of the Year** (2021)
- Member of the **Dow Jones Sustainability Index Australia** (2023)

Corporate snapshot – ASX:CHN

Market Capitalisation¹
~A\$400M

Cash balance²
~A\$112M

Shares on issue
~389M




Avg liquidity
>3M/day

Share Register³

Tim Goyder (Founder)	10%
Goldman Sachs	8%
BlackRock	6%
Directors & Mgmt	2%
Other institutional	29%

Stable top 10 with long term focus

Research coverage

BELL POTTER  **MACQUARIE**  **UBS** **J.P.Morgan**  **morgans** **Barrenjoey°** **Jefferies**

Board of Directors

Derek La Ferla	Non-Executive Chair
Alex Dorsch	Managing Director & Chief Executive Officer
Morgan Ball	Non-Executive Director
Garret Dixon	Non-Executive Director
Stephen McIntosh	Non-Executive Director
Linda Kenyon	Non-Executive Director
Jo Gaines	Non-Executive Director

Management

Richard Hacker	General Manager – Strategy & Commercial
Dr Kevin Frost	General Manager – Exploration
Dr Soolim Carney	General Manager – Environment & Community
Mike Nelson	General Manager – Project Development
Chris MacKinnon	Chief Financial Officer
Ben Goldbloom	General Manager – Corporate Development

1. As of 9 Feb 2024; 2. As of 31 Dec 2023; 3. As of 31 December 2023. Substantial shareholder information is as disclosed in the last substantial shareholder notice provided to the Company.
Note: Arctis Global disclosed a long equity derivative position of 46,728,282 shares on 10 Nov 2022.

Chalice's team has a track record of discovery and large-scale project development



Board of Directors



Derek La Ferla, Non-Exec Chair

- Highly regarded ASX200 chair and company director with 30+ years experience as a corporate lawyer
- Former Chair of Poseidon Nickel and 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
- CFO of Genesis Minerals and 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 and Technology Metals Australia Limited

Management



Richard Hacker, GM Strategy and Commercial

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



Dr Kevin Frost, GM Exploration

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



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, CFO

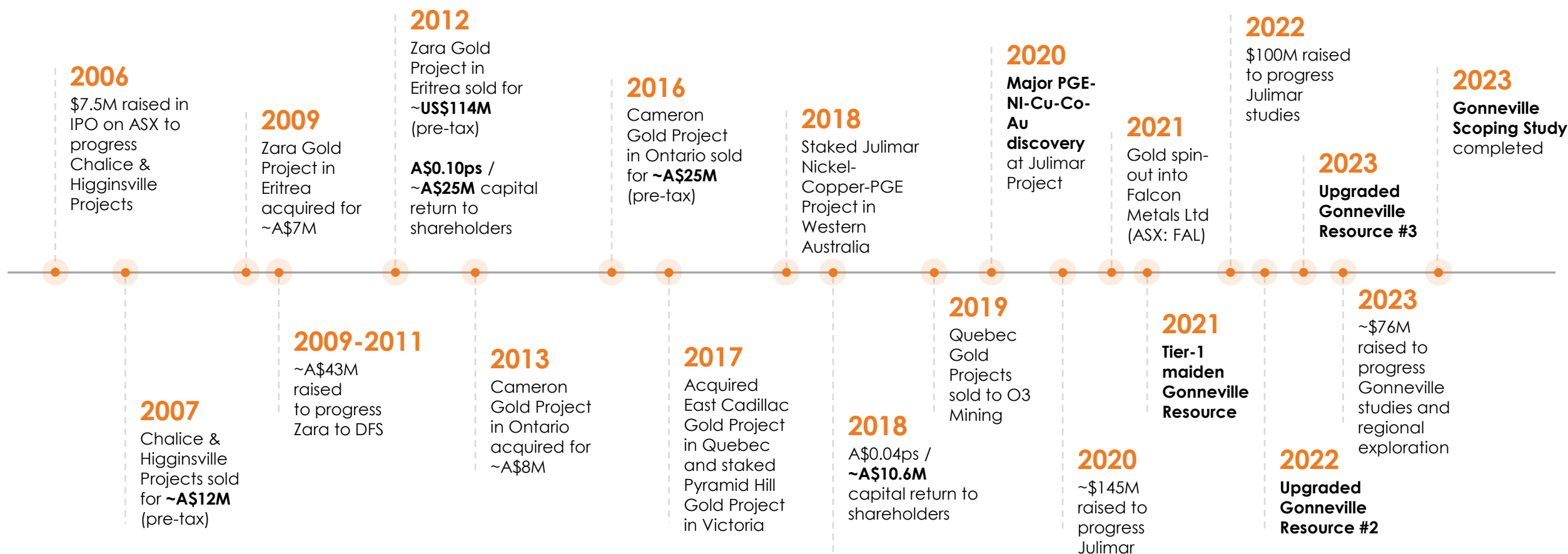
- Qualified accountant and lawyer with 15+ years experience of professional and corporate experience in the energy and resources industry



Ben Goldbloom, GM Corporate Development

- Investor relations, commercial and business development specialist with 15+ years experience in commercial and technical roles in the resources industry

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




Our **approach to sustainability**: Deliver sustained shared value through responsible sustainability practices



Our Sustainability Vision and Pillars

Member of
**Dow Jones
Sustainability Indices**
Powered by the S&P Global CSA

Strong Environmental
Stewardship



The Gonneville Project is located on 100%-owned Chalice farmland

Gonneville Biodiversity Strategy to ensure a science-based no net loss of species or habitat diversity as a result of our operations

Comprehensive baseline **environmental surveys** across 6,000ha; covering flora, fauna, dieback

Successfully implemented **industry leading low-impact exploration drilling techniques** in vegetated areas – no mechanised clearing

Manage Climate
Change Risk




Progressing **Taskforce on Climate-related Financial Disclosures** (TCFD) Roadmap and implementation plan

Development of a **Climate Change Policy** in FY2023

Responsibly discovering and developing new mineral deposits that provide the key metals which are **critical to decarbonisation**

Create Value for
Stakeholders



Chalice and providers have contributed ~**\$8.2 million** to communities surrounding Gonneville (FY21-23)

Established Chalice Mining Community Fund – agreement with Shire of Toodyay to deliver significant long-term benefits to the local community

Local Voices Community Survey, a series of independent surveys to understand the priorities of the community

Active engagement with Whadjuk and Yued Traditional Owners – worked with **>70 Traditional Owners** since 2021

Healthy and Safe
Workforce



Zero lost time injuries, fatalities or high potential safety events

Gender diversity well above industry standards – women make up **45%** of our overall workforce (FY2023)

BSS Employee Assistance Program to support **wellbeing** and **mental health** of our employees

Gonneville Ni-Cu-PGE Project Overview

A new long-life, low-cost, low-carbon *green metals* project in Western Australia

A globally significant magmatic sulphide Resource ~70km from Perth:

- **560Mt @ ~0.54% NiEq or 1.7g/t PdEq** for ~16Moz of Pd-Pt-Au (3E), 860kt Ni, 520kt Cu, 83kt Co contained – deposit remains **open at depth**
- **Strategic and rare large-scale green metals² project in a western jurisdiction** – strong potential for a *western and green premium (IRA-compliant products)*

Scoping Study (Aug 2023) completed on bulk open-pit development options:

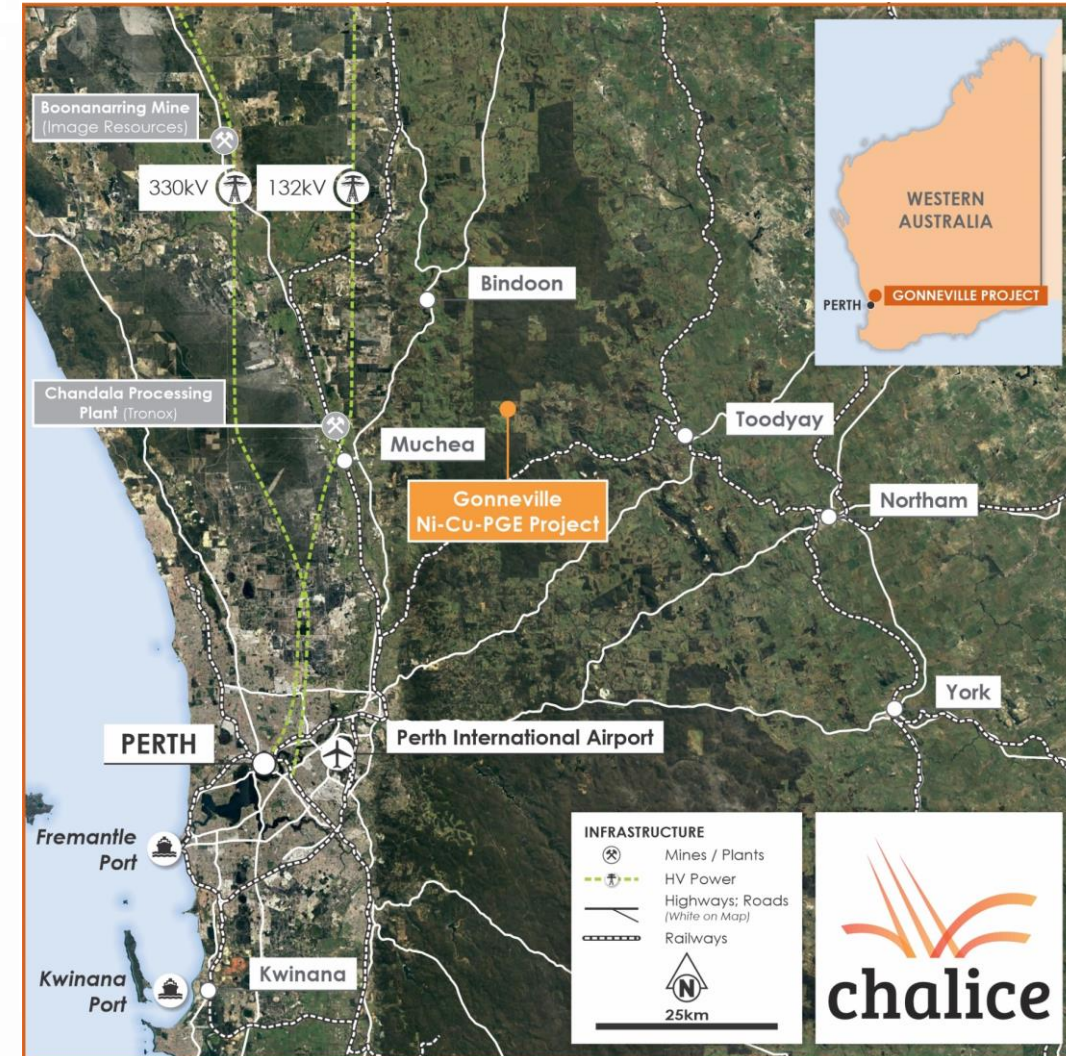
- **Predicted to be lowest cost PGE producer in the western world** – ~US\$160-230/oz 3E cash costs (after Ni-Cu-Co by-product credits) – 2nd quartile on the PGE industry cost curve
- Investigating **high-grade, staged open-pit / underground starter cases** in the initial phase of the Pre-Feasibility Study (in progress)
- World class sustainability metrics – **low carbon intensity products, an ~A\$18 billion contribution to WA economy and substantial regional benefits**
- Regulatory approvals process to commence in Q1 2024 – **FID targeted for late 2026**

Strong upside potential on study metrics currently being investigated:

- **No underground mining options modelled as yet** – high-grade sulphide mineralisation extends well beyond the limit of Scoping Study pit designs
- Resource, optimal flowsheet and pathways to market continuing to be defined

Strategic partnering process ongoing:

- **Positive progress made and active discussions ongoing**



1. For tonnes and grades by confidence category and metal equivalent assumptions, refer to the Mineral Resources Statement in Appendix. 2. Nickel, copper, cobalt, palladium and platinum are considered green metals, as they are required to produce decarbonisation technologies such as lithium-ion batteries, electric vehicles, large-scale energy storage solutions, wind power, solar power and green hydrogen.

Gonneville is positioned to become a **strategic asset** for Australia and the western world, given its rare palladium-nickel-cobalt content

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

Pd, Pt, Ni and Co are classified as '**critical minerals**' by most western governments; case is also growing for Cu

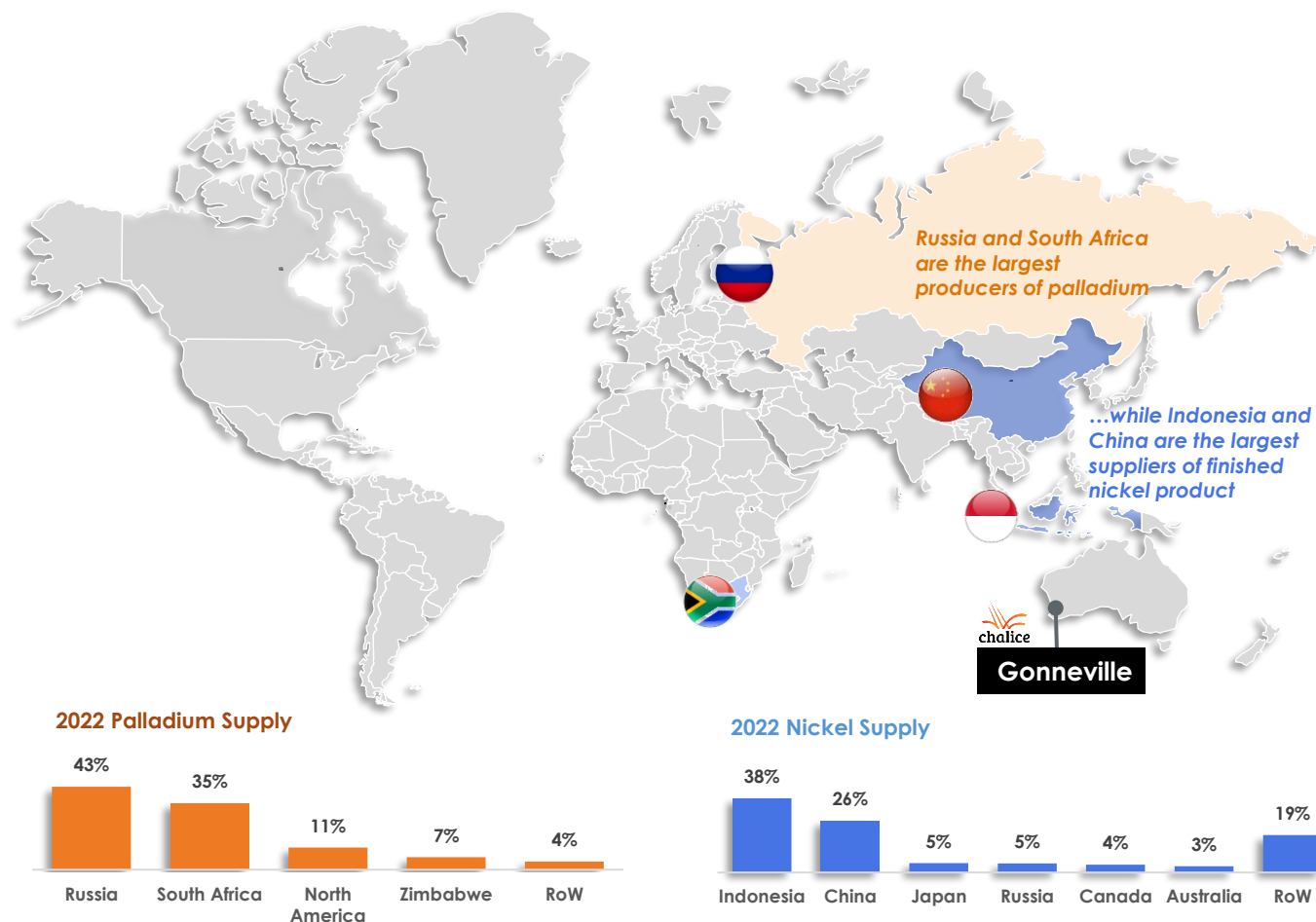
The western world is **extremely reliant** on **Russian Palladium supply** (~43% of global supply)

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

The Australian Government has committed \$6 billion¹ to **accelerate strategically significant projects** and **strengthen** internal critical mineral **security and supply chains**

The **US Inflation Reduction Act (IRA)** includes a **US\$370 billion stimulus package** to accelerate critical minerals production in western countries

Global **Palladium** and **Nickel** Primary Supply Market Share (2022)³



Unlocking the full value of **Gonneville** through upside opportunities in mining, processing and commercial areas is underway



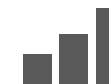
[Orange] = Near term priorities

Assessed upside potential



Mining

- **Early high-grade underground mining in parallel to open-pit phase and block/sub-level caving options**
- **Selectivity, equipment sizing, cut-off grade, dilution, pit phasing, stockpiling and blending mining optimisations**
- Real-time mining/cut-off strategies to adapt to prevailing macro environment
- Ore-sorting and other beneficiation techniques to be investigated (as yet unmodelled)
- Automation and electrification of mining and haulage



Processing

- **Geo-met domaining of the deposit**
- **Bulk flotation testwork and trade-off studies (vs sequential Cu/Ni flotation)**
- Grind size, staged grinding, Leaching and flotation processing / recovery optimisations
- Further downstream processing as resource base grows and operation matures
- Phasing of flowsheet configuration (concentrates to midstream to downstream) to de-risk execution and ramp-up
- New processing and tailings storage technologies
- Advanced analytics and machine learning / artificial intelligence in process optimisation



Commercial

- **Strategic partnering to bring technical, financial and/or marketing capabilities**
- **Government grants, debt, tax incentives or targeted project support (including infrastructure, permitting etc)**
- Higher long-term prices due to scarcity, lack of new discoveries or geo-political events (lower cut-off grades)
- Potential for *green/western premiums* on products
- Recovery and payability of additional metals (i.e. Rh, Ir, Os, Ag, Te)
- Strategic power purchase agreement or improvements in SWIS grid
- Local offtake to potential new downstream processing hub



Gonneville Mineral Resource Estimate (JORC Code 2012), 28 March 2023



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)
Oxide	0.9g/t Pd	Measured	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Indicated	7.3	1.9	-	0.06	-	-	-	-	2.0	0.45	-	0.01	-	-	-	-	0.47
		Inferred	0.2	1.9	-	0.07	-	-	-	-	2.0	0.01	-	0.00	-	-	-	-	0.02
		Subtotal	7.5	1.9	-	0.06	-	-	-	-	2.0	0.47	-	0.01	-	-	-	-	0.49
Sulphide (Transitional)	0.35% NiEq	Measured	0.38	0.82	0.17	0.03	0.19	0.17	0.020	0.70	2.2	0.01	-	-	0.72	0.63	0.07	2.7	0.03
		Indicated	14	0.66	0.15	0.03	0.16	0.10	0.018	0.54	1.7	0.30	0.07	0.01	22	14	2.5	77	0.77
		Inferred	0.27	0.60	0.16	0.03	0.15	0.12	0.015	0.54	1.7	0.01	-	-	0.42	0.32	0.04	1.5	0.01
		Subtotal	15	0.66	0.15	0.03	0.16	0.10	0.018	0.55	1.7	0.31	0.07	0.01	23	15	2.6	81	0.81
Sulphide (Fresh)	0.35% NiEq	Measured	2.3	1.1	0.26	0.03	0.24	0.18	0.019	0.87	2.7	0.08	0.02	-	5.4	4.2	0.43	20	0.20
		Indicated	280	0.67	0.15	0.03	0.16	0.09	0.015	0.53	1.7	6.0	1.3	0.23	440	260	43	1500	15
		Inferred	200	0.67	0.15	0.03	0.15	0.09	0.015	0.53	1.6	4.4	0.96	0.16	310	180	29	1100	11
		Subtotal	480	0.67	0.15	0.03	0.16	0.09	0.015	0.53	1.7	10	2.3	0.39	750	440	72	2600	26
Underground	0.40% NiEq	Measured	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Indicated	1.7	0.75	0.21	0.06	0.14	0.08	0.013	0.55	1.7	0.04	0.01	-	2.4	1.4	0.23	9.5	0.10
		Inferred	52	0.78	0.17	0.03	0.16	0.11	0.015	0.59	1.8	1.3	0.28	0.05	83	56	7.7	310	3.1
		Subtotal	54	0.78	0.17	0.03	0.16	0.11	0.015	0.59	1.8	1.3	0.29	0.06	86	57	7.9	320	3.2
All		Measured	2.7	1.1	0.24	0.03	0.23	0.18	0.019	0.85	2.6	0.09	0.02	-	6.2	4.9	0.51	23	0.23
		Indicated	300	0.70	0.15	0.03	0.16	0.09	0.015	0.54	1.7	6.8	1.4	0.26	460	280	45	1600	16
		Inferred	250	0.70	0.15	0.03	0.15	0.09	0.015	0.54	1.7	5.7	1.2	0.22	390	230	37	1400	14
		Total	560	0.70	0.15	0.03	0.16	0.09	0.015	0.54	1.7	13	2.7	0.48	860	520	83	3000	30

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 (%) + 0.32x Pd(g/t) + 0.21x Pt(g/t) + 0.38x Au(g/t) + 0.83x Cu(%) + 3.00x Co(%)

PdEq sulphide (Palladium Equivalent g/t) = Pd (g/t) + 0.67x Pt(g/t) + 1.17 x Au(g/t) + 3.11x Ni(%) + 2.57x Cu(%) + 9.33x Co(%)

Underground resources are outside the pit above a 0.40% NiEq cut off grade based on sub-level caving mining method

Includes drill holes drilled up to and including 11 December 2022.

Higher-grade sulphide component of Gonneville Resource (in pit and underground), 28 March 2023



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)
High-grade Sulphide (Transitional)	0.6% NiEq	Measured	0.17	1.2	0.24	0.05	0.24	0.25	0.023	0.97	3.0	0.01	-	-	0.41	0.43	0.04	1.7	0.02
		Indicated	3.4	1.1	0.21	0.04	0.20	0.16	0.020	0.79	2.5	0.12	0.02	-	6.6	5.3	0.69	27	0.27
		Inferred	0.07	0.84	0.18	0.03	0.22	0.26	0.019	0.81	2.5	-	-	-	0.16	0.18	0.01	0.57	0.01
		Subtotal	3.6	1.1	0.21	0.04	0.20	0.16	0.021	0.80	2.5	0.12	0.02	-	7.2	5.9	0.74	29	0.29
High-grade Sulphide (Fresh)	0.6% NiEq	Measured	0.88	2.2	0.47	0.05	0.39	0.35	0.027	1.6	4.9	0.06	0.01	-	3.4	3.1	0.24	14	0.14
		Indicated	58	1.2	0.26	0.06	0.20	0.18	0.018	0.87	2.7	2.3	0.48	0.11	120	100	10	500	5.1
		Inferred	40	1.3	0.26	0.06	0.19	0.18	0.017	0.87	2.7	1.6	0.33	0.08	75	73	6.6	340	3.5
		Subtotal	98	1.2	0.26	0.06	0.20	0.18	0.017	0.88	2.7	3.9	0.82	0.19	200	180	17	860	8.7
Underground	>0.6% NiEq	Measured	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Indicated	0.4	1.2	0.36	0.12	0.14	0.11	0.014	0.78	2.5	0.02	-	-	0.61	0.46	0.06	3.3	0.03
		Inferred	13	1.4	0.27	0.06	0.20	0.20	0.017	0.93	2.9	0.58	0.12	0.03	26	26	2.2	120	1.2
		Subtotal	14	1.4	0.28	0.06	0.20	0.19	0.017	0.93	2.9	0.60	0.12	0.03	27	26	2.3	130	1.3
All		Measured	1.1	2.0	0.43	0.05	0.37	0.33	0.026	1.5	4.6	0.07	0.01	-	3.8	3.5	0.28	15	0.15
		Indicated	62	1.2	0.25	0.06	0.20	0.18	0.018	0.87	2.7	2.4	0.50	0.11	130	110	11	530	5.4
		Inferred	53	1.3	0.26	0.06	0.19	0.19	0.017	0.89	2.8	2.2	0.45	0.11	100	99	8.8	470	4.7
		Total	120	1.3	0.26	0.06	0.20	0.18	0.017	0.88	2.7	4.7	0.97	0.22	230	210	20	1000	10

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.

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

NiEq sulphide (Nickel Equivalent %) = Ni (%) + 0.32x Pd(g/t) + 0.21x Pt(g/t) + 0.38x Au(g/t) + 0.83x Cu(%) + 3.00x Co(%)

PdEq sulphide (Palladium Equivalent g/t) = Pd (g/t) + 0.67x Pt(g/t) + 1.17 x Au(g/t) + 3.11x Ni(%) + 2.57x Cu(%) + 9.33x Co(%)

Underground resources are outside the pit above a 0.40% NiEq cut off grade based on sub-level caving mining method

Includes drill holes drilled up to and including 11 December 2022.

Metal equivalent assumptions of Gonneville Resource, 28 March 2023



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 transitional and sulphide domains are calculated according to the formula below:

- $\text{NiEq\%} = \text{Ni (\%)} + 0.32 \times \text{Pd (g/t)} + 0.21 \times \text{Pt (g/t)} + 0.38 \times \text{Au (g/t)} + 0.83 \times \text{Cu (\%)} + 3.00 \times \text{Co (\%)};$
- $\text{PdEq (g/t)} = \text{Pd (g/t)} + 0.67 \times \text{Pt (g/t)} + 1.17 \times \text{Au (g/t)} + 3.11 \times \text{Ni (\%)} + 2.57 \times \text{Cu (\%)} + 9.33 \times \text{Co (\%)};$

Metal recoveries used in the metal equivalent calculations are based on rounded average Resource grades for the sulphide domain (>0.35% NiEq cut-off):

- Pd – 60%, Pt – 60%, Au – 70%, Ni – 45%, Cu – 85%, Co – 45%.

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

- US\$1,800/oz Pd, US\$1,200/oz Pt, US\$1,800/oz Au, US\$24,000/t Ni, US\$10,500/t Cu and US\$72,000/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:

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

- Metal recoveries based on limited metallurgical test work completed to date:
 - Pd – 75%, Au – 90%.
- 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 "Gonneville Resource increases by approx. 50% to 3Mt NiEq", dated 28 March 2023.



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