



31 October 2024

## Non-Deal Roadshow Presentation

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**Southern Palladium Limited** (ASX Code: SPD and JSE Code: SDL) releases the Company's Non-Deal Roadshow Presentation.

Authorised by the Company Secretary.

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The information in this presentation relating of Resources and Reserves is extracted from the report entitled "Prefeasibility Study Results: Project NPV8 of USD1.059bn Maiden JORC Ore Reserve of 6.29 million oz @ 6.17g/t PGM (6E) created on 28 October 2024 and is available to view on the Company's website at <https://www.southernpalladium.com/site/pdf/ffc418cf-eed6-40e3-b281-775356e029e1/Bengwenyama-PreFeasibility-Study-Project-NPV-of-US1059bn.pdf> . The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement 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 original market announcement.



# BENGWENYAMA

**Prefeasibility Study Results  
Maiden JORC Ore Reserve of 6.29Moz**

**ASX: SPD  
JSE: SDL**

Non-Deal Roadshow Presentation  
October 2024

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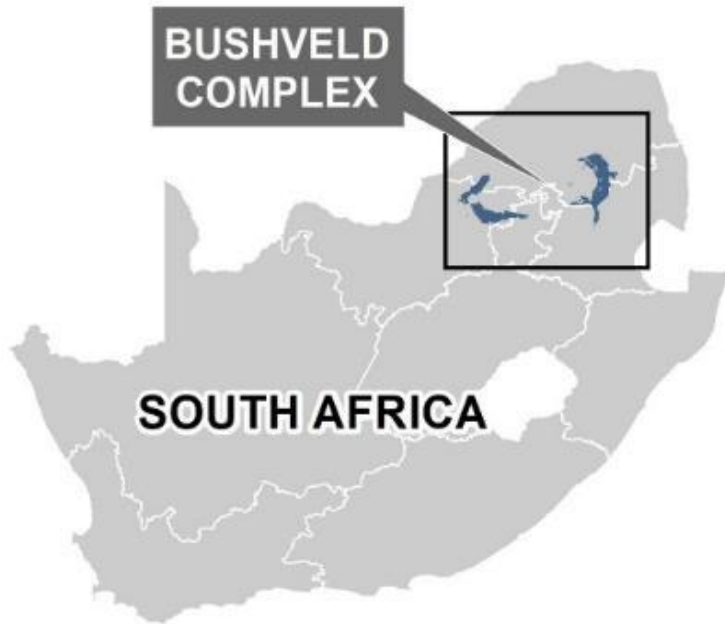
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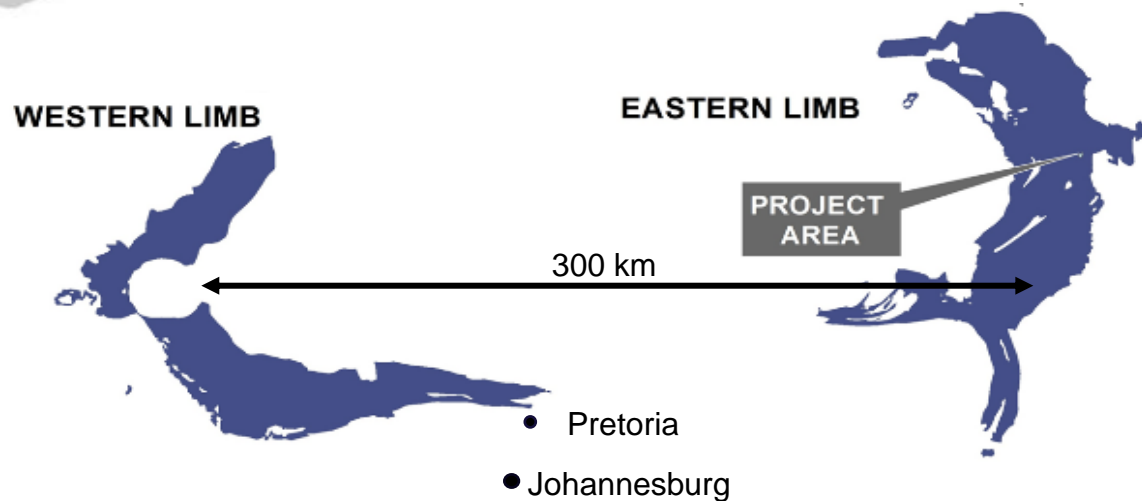
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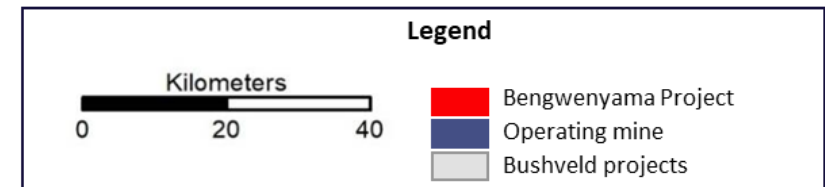
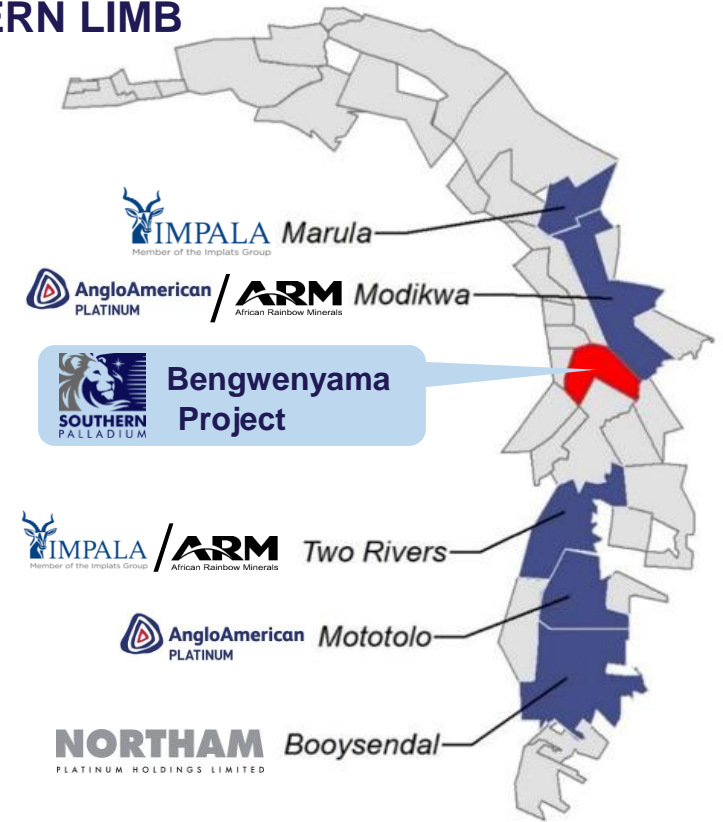
# PRIME PLATINUM GROUP METAL (PGM) ASSET: IDEALLY LOCATED AMONG WELL-ESTABLISHED MINING OPERATIONS.



44 Ru Ruthenium	45 Rh Rhodium	46 Pd Palladium
76 Os Osmium	77 Ir Iridium	78 Pt Platinum
		79 Au Gold



## EASTERN LIMB



# THE BENGWENYAMA PROJECT: IN ELEPHANT COUNTRY



## Company (Market Cap)

## Mine: Resource Ounces (4E) & Annual Production<sup>1</sup>



**Impala Platinum<sup>2</sup>**  
US\$6.1 billion Market Cap

**Marula: 13.2Moz UG2 reef**  
Total resource ounces 19.7Moz



**Amplats<sup>3</sup> / ARM<sup>4</sup>**  
US\$11.2 / US\$2.3 billion Market Cap

**Modikwa: 50.0Moz UG2 reef**  
Total resource ounces 68.2Moz



**Southern Palladium<sup>5</sup>**  
US\$32.1 million Market Cap

**Bengwenyama: 21.7Moz UG2 reef**  
Total resource ounces 36.24 Moz



**Impala Platinum / ARM**  
US\$6.1 / US\$2.3 billion Market Cap

**Two Rivers: 25.6Moz UG2 reef**  
Total resource ounces 44.6Moz



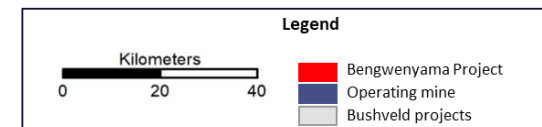
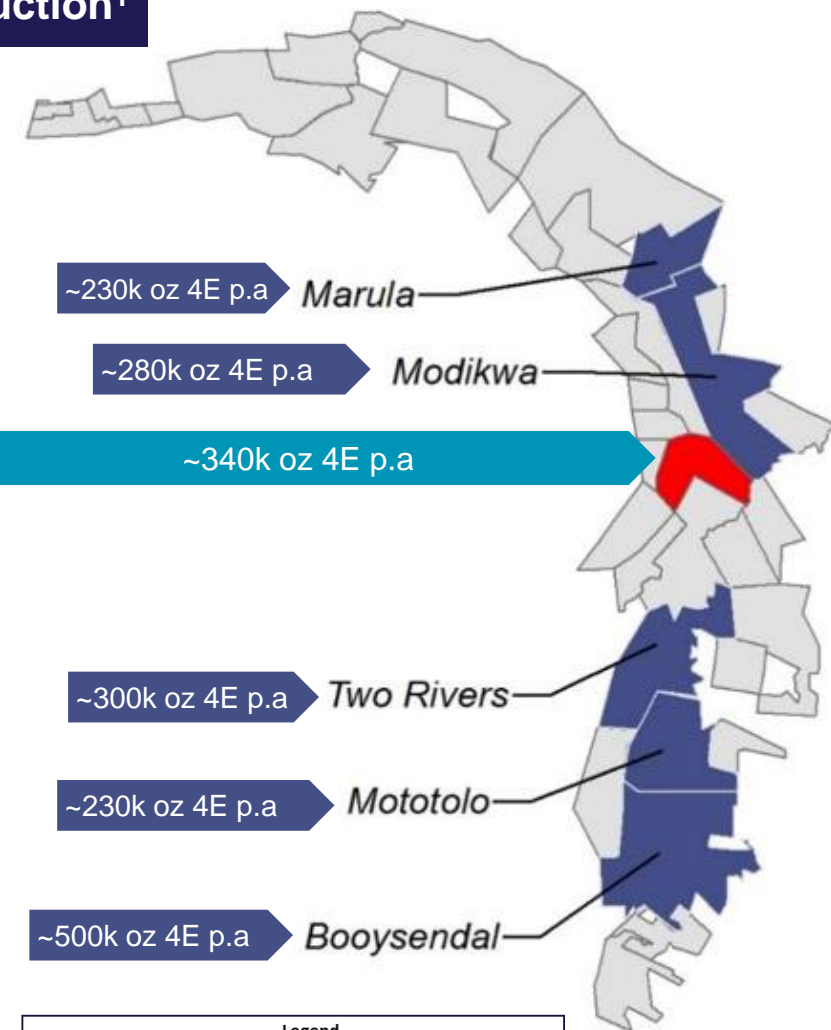
**Amplats**  
US\$11.2 billion Market Cap

**Mototolo: 43.1Moz UG2 reef**  
Total resource ounces 68.5Moz



**Northam Platinum<sup>5</sup>**  
US\$3.3 billion Market Cap

**Booyesendal: 71.6Moz UG2 reef**  
Total resource ounces 100.95Moz



Note: 1 Stated at 100% equity basis, 4E resource only (Pt + Pd + Rh + Au)

Source: 2. Implats MRMR-2024

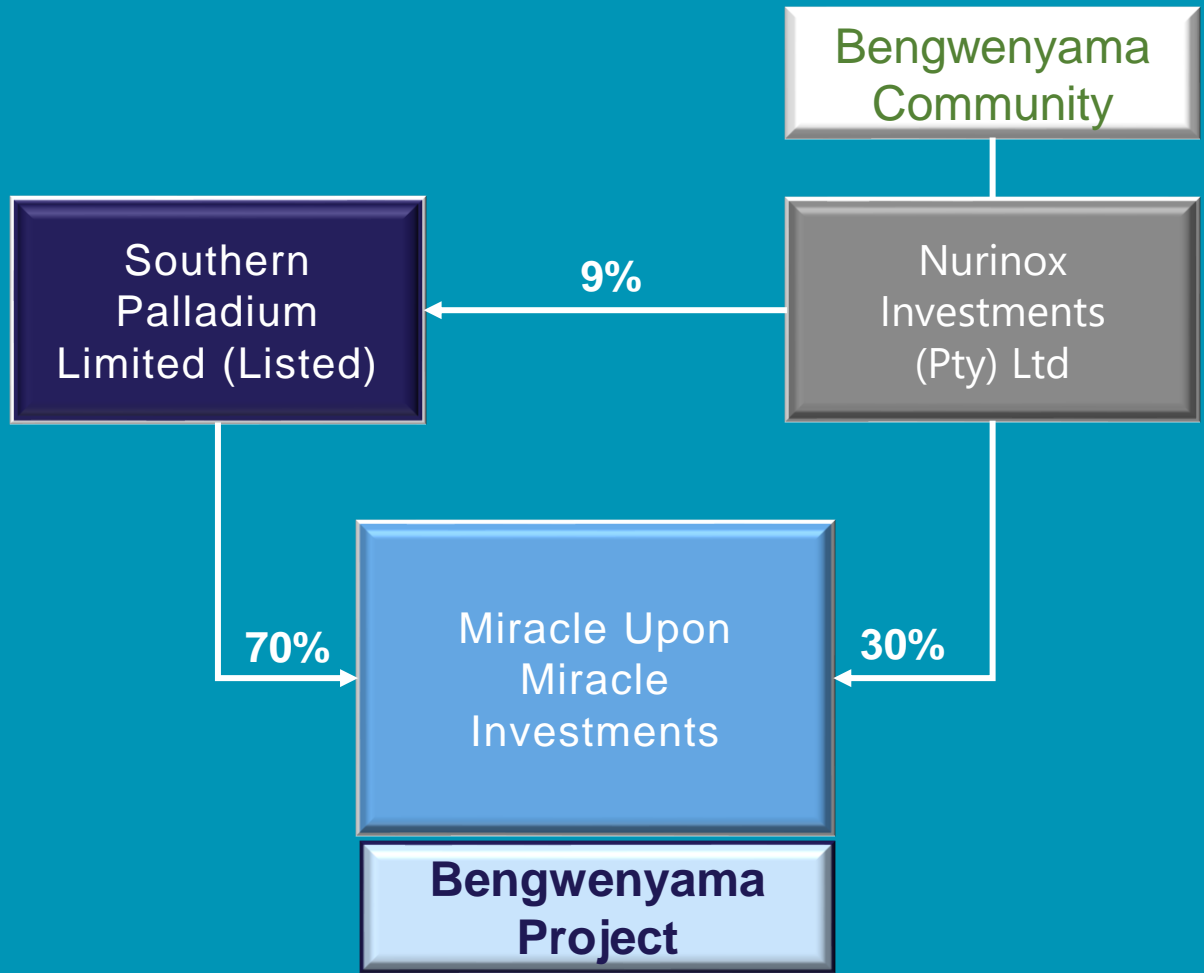
3. Amplats ore-reserves-and-mineral-resources-report-2023

4. ARM-MRR-October-2023

5. NHM-MRR24

6. Bengwenyama Mineral Resource Update: 23 October 2024 (4E) numbers

# CORPORATE STRUCTURE AND DIRECTORS



## BOARD OF DIRECTORS – SOUTHERN PALLADIUM (SPD)



**Roger Baxter**  
Executive Chairperson



**Johan Odendaal**  
Managing Director  
**CEO MUM**

**NON-EXECUTIVE DIRECTORS**  
**Mike Stirzaker NED MUM**  
**Daan van Heerden NED MUM**  
**Lindi Nkosi Chairperson MUM**  
**Rob Thomson**

**COMPANY SECRETARY**  
**Andrew Cooke**

## BOARD OF DIRECTORS – MIRACLE UPON MIRACLE (MUM)



**Adv. Lindi Nkosi-Thomas**  
Non-Executive Chairperson



**Daniel Nkosi**  
Executive Director – Site Manager and Community Affairs



**Joel Nkosi**  
Non-Executive Director, Deputy Chairman Bengwenyama Traditional Council

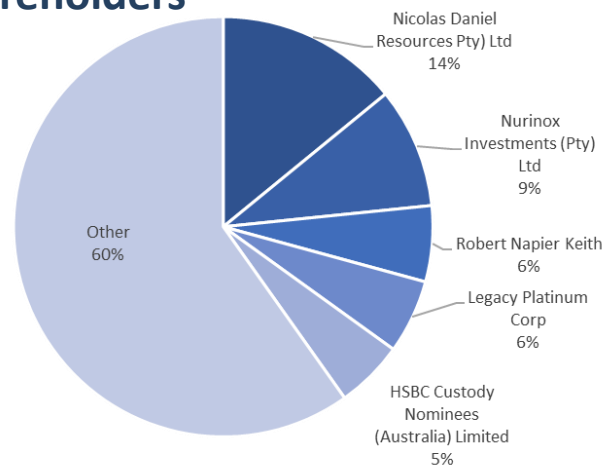


**Project Managers: Minxcon**  
**Uwe Engelmann**  
 Exploration and Resource Geologist

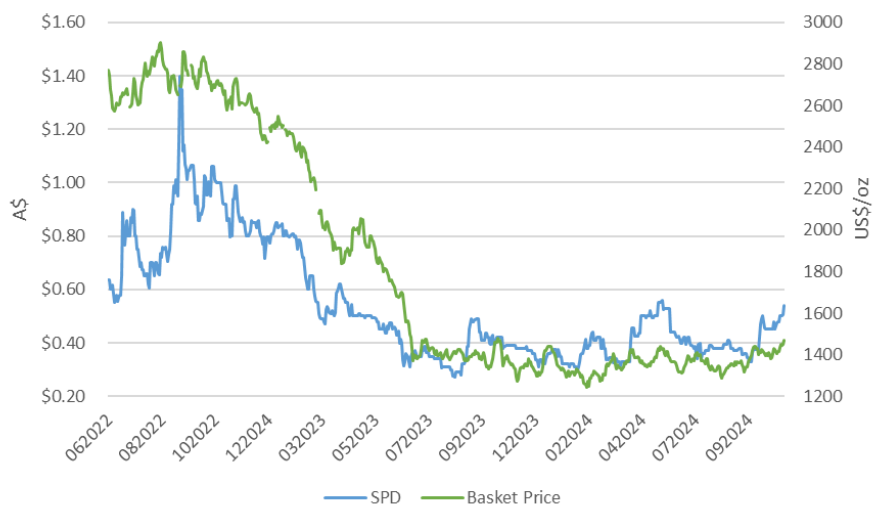
# CORPORATE OVERVIEW



## Shareholders



## Share Price vs Basket Price



## SOUTHERN PALLADIUM LIMITED (ASX:SPD, JSE:SDL)

Share Price ASX/JSE	A\$0.70	ZAR3.75
	A\$	USD
Total number of shares issued	89.75m	
Market cap	63m	41m
Cash at Bank (30 September 2024)	5.2m	3.4m
Enterprise Value	57.3m	37.7m
Performance Rights (Founder Deferred Shares)*	1.2m	
Options with exercise price of A\$0.875 (at 75% premium to IPO issue price) expiry on June 2026	7.33m	

Note: \* Issued if at least 2,000,000 oz of PGM (4E) Reserves have been identified, comprising at least 15 million tonnes and a grade of at least 3.0 grams per tonne within four years after the IPO date

As at :	29-Oct-24
AUD/ZAR	11.64
USD/AUD	1.52

## Major shareholders

Top 20 holders	79%
Directors and Management	16%

# WHY OUR PROJECT?



**Total Resource (MI&I) 40.25Moz (7E)**  
**Total Reserve (Probable) 6.29Moz (6E)**

## CRITICAL MINERALS

Foundation upon which **modern technology is built:**

**USA<sup>1</sup>: Cr, Ni, Pd, Pt, Rh, Ru**

**Canada<sup>2</sup>: PGM's**

**UK<sup>3</sup>: Pd, Pt, Ir, Ru, Ni**

## SHALLOW

**Early access at 50m from surface** – allows quick access – **lower capital costs** compared to deep vertical shafts

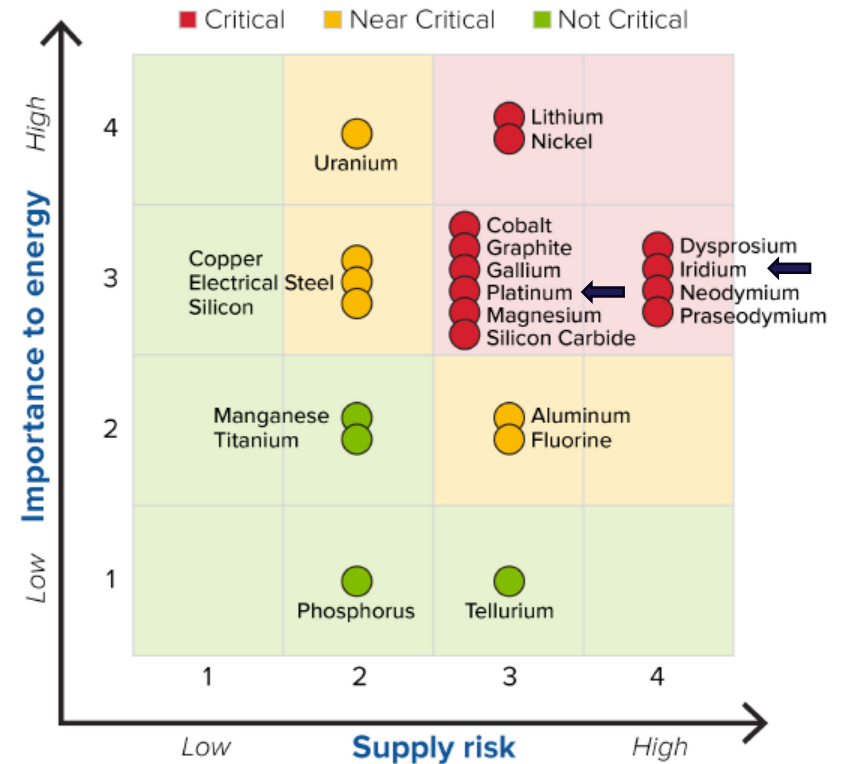
## UNIQUE

**Last remaining significant shallow real estate** on the Eastern Limb

## DESIRABLE

**High-grade PGM and chrome concentrate suitable** for processing in existing PGM and chrome smelters in South Africa

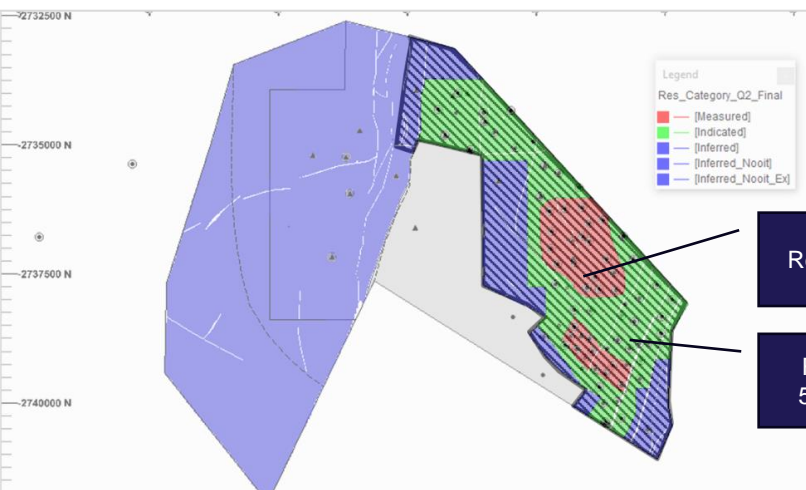
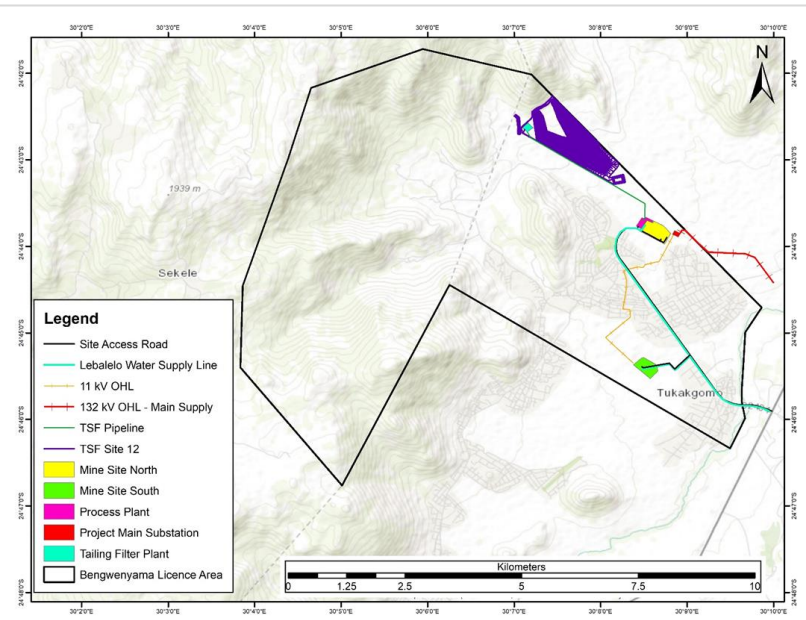
Medium term (2025-2035) critical Matrix<sup>4</sup>



Source:

- <https://pubs.usgs.gov/periodicals/mcs2024/mcs2024.pdf>
- <https://www.canada.ca/en/campaign/critical-minerals-in-canada/critical-minerals-an-opportunity-for-canada.html>
- <https://www.gov.uk/government/publications/uk-critical-mineral-strategy/4acf2ca4-70cf-4834-a081-cf16b7c66959>
- US Department of Energy Critical Materials Assessment, 2023





Measured Resource – 2.30 Moz @ 10g/t

Indicated Resource – 5.86 Moz @ 9.85 g/t



BENGWENYAMA PROJECT  
**PFS STUDY RESULTS**  
 PLAN VIEW

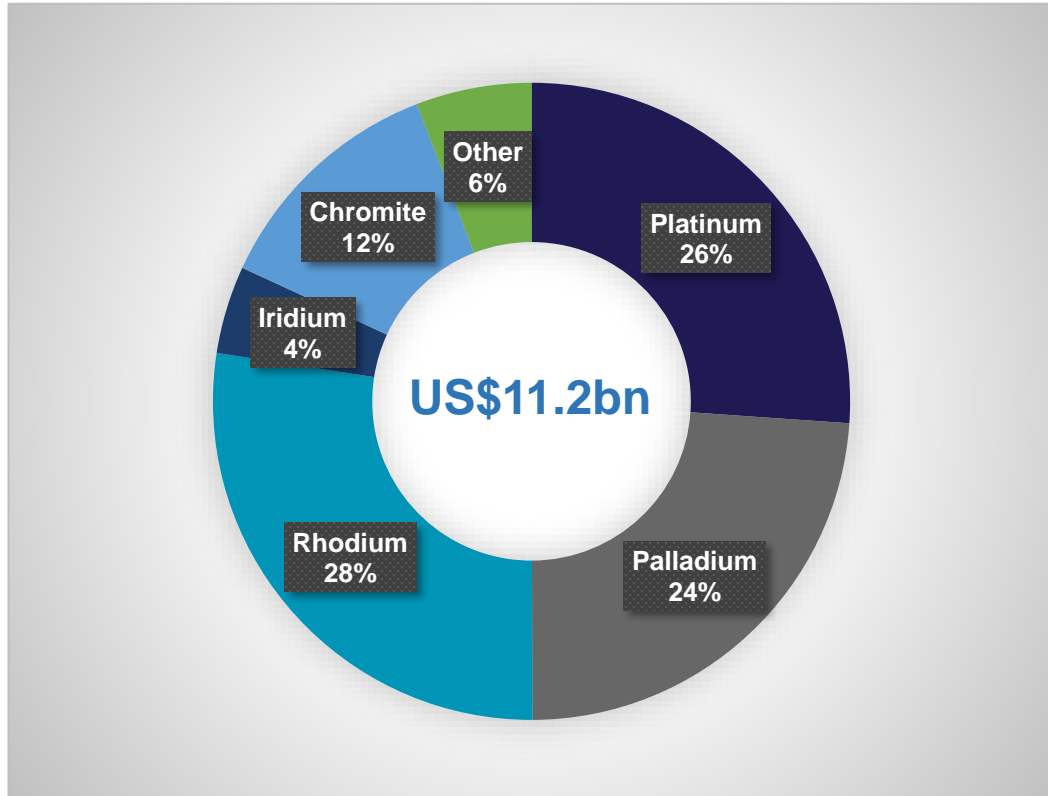
**Over the first 10 years of the project, 94% of ore production will come from JORC Measured and Indicated resource**

# PFS STUDY RESULTS

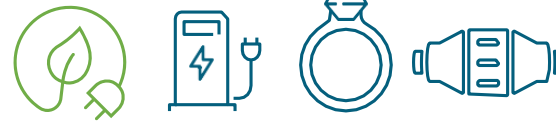
## COMMODITY LEVERAGE OVER LOM



### Contribution to Revenue



Pt | **Platinum**  
2.86Moz



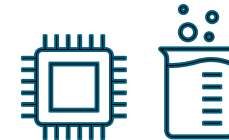
Pd | **Palladium**  
2.85Moz



Rh | **Rhodium**  
590Koz



Ru | **Ruthenium**  
960Koz



Ir | **Iridium**  
200Koz



Cr<sub>2</sub>O<sub>3</sub> | **42% Chrome Ore**  
6.0Mdm

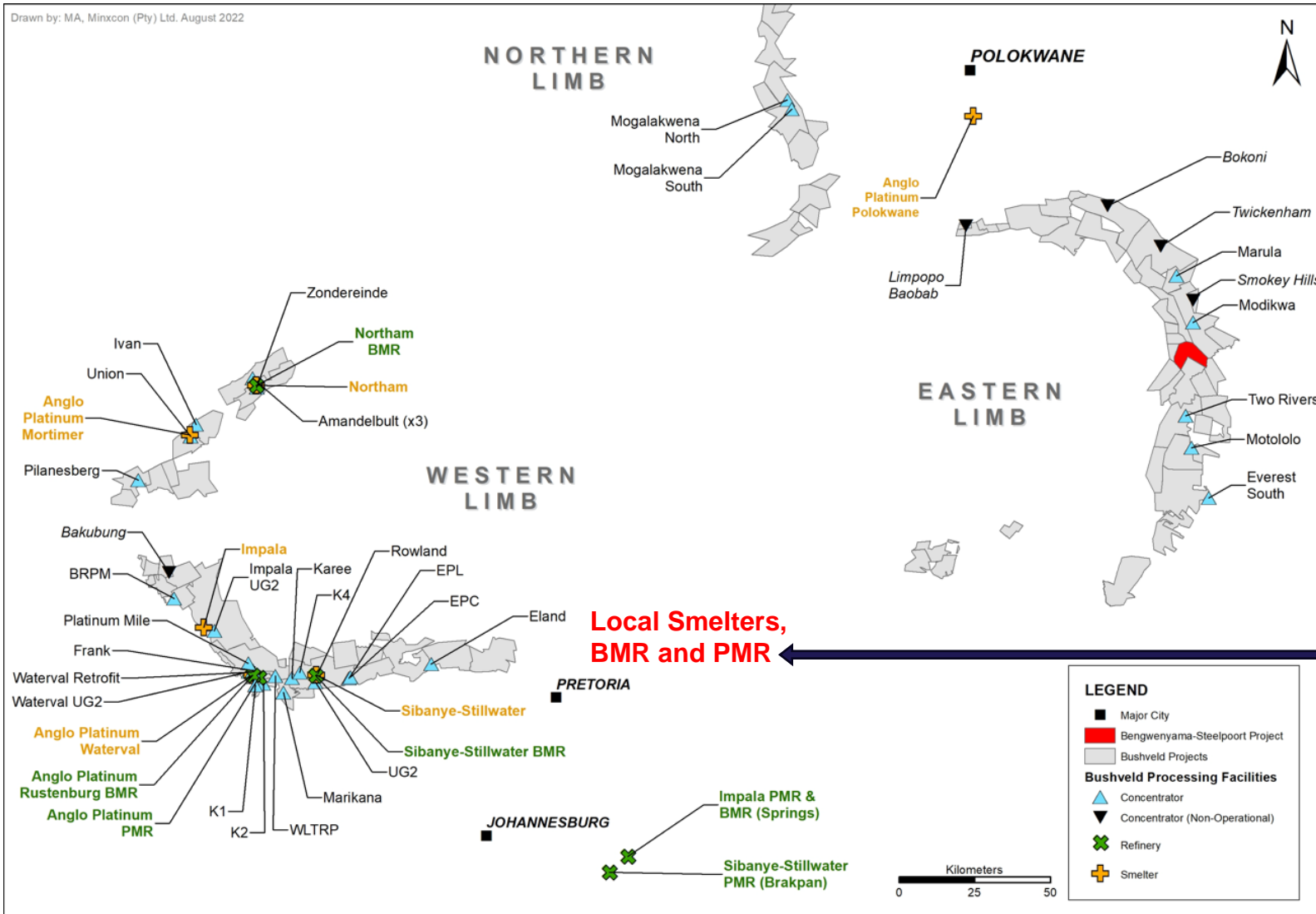


# PFS STUDY RESULTS

## HYBRID MINING – ESTABLISH DOWNSTREAM BENEFICIATION



Drawn by: MA, Minxcon (Pty) Ltd. August 2022



**2.4Mtpa UG2 Reef @ 6.1g/t (6E)**



**MF2 Plant: Primary & Secondary stages**

Coarse Tails



Tails

Coarse and Fine

Fine Tails

**85% PGM Recovery**

**120ktpa 100g/t PGM Conc. ~400 Kozpa 6E**

**~350ktpa 42% Chrome Conc.**

**Local or Export**

# PFS STUDY RESULTS HIGHLIGHTS



**2.4 Mtpa UG2 reef at steady state**

**Annual steady state production**

400Koz p.a. 6E

150Koz p.a. Pt

150Kozpa Pd

35Kozpa Rh

65Kozpa Au, Ru, Ir

**Chrome conc.**

350 Kt p.a

**Peak funding requirement**  
US\$450 million (incl. ~15% contingency)

**EBITDA (LoM average)**  
US\$300 million p.a.

**Free cashflow (post-tax)**  
US\$220 million p.a.

**Costs (LoM average)**  
Cash costs – US\$644/6Eoz  
AISC – US\$800/6Eoz

**NPV8% (post-tax)**  
US\$1.060billion<sup>2</sup>

**IRR (post-tax)**  
28%

**Payback period**  
3.5 years  
(from start of plant production)

**EBITDA margin**  
50%

**Source:**

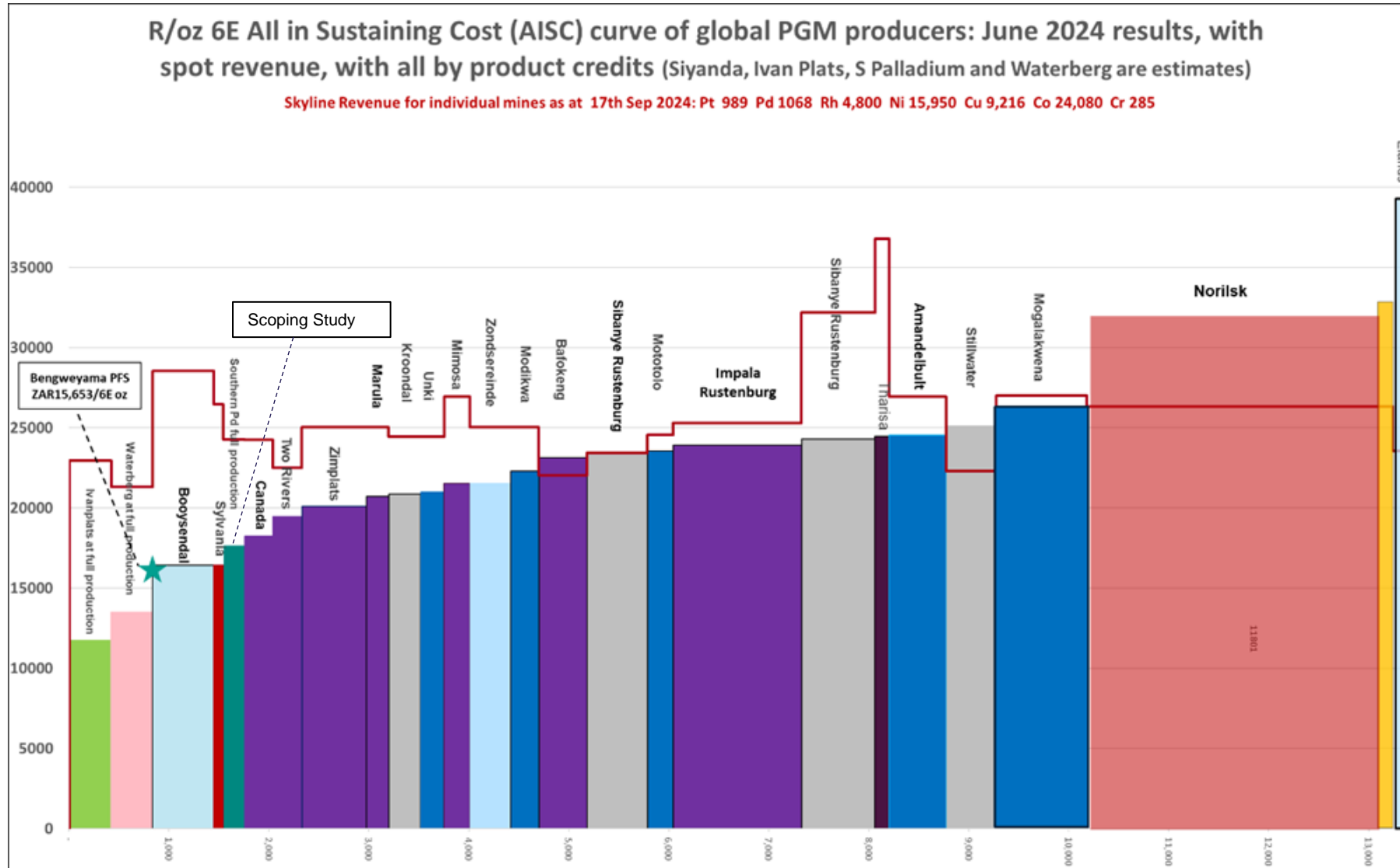
1. ASX Announcement 28 October 2024

2. Note: Indicative NPV ignores residual value beyond modelled life or any exploration upside and hence is not considered.

3. 6E – Platinum, Palladium, Rhodium, Ruthenium, Iridium + Au

# BENGWENYAMA PROJECT

## PFS STUDY RESULTS



Source: Adapted from Rene Hochreiter (NOAH Capital Markets & Sieberana Research, 2024)

# PFS STUDY RESULTS

## PRICE DECK AND SENSITIVITIES

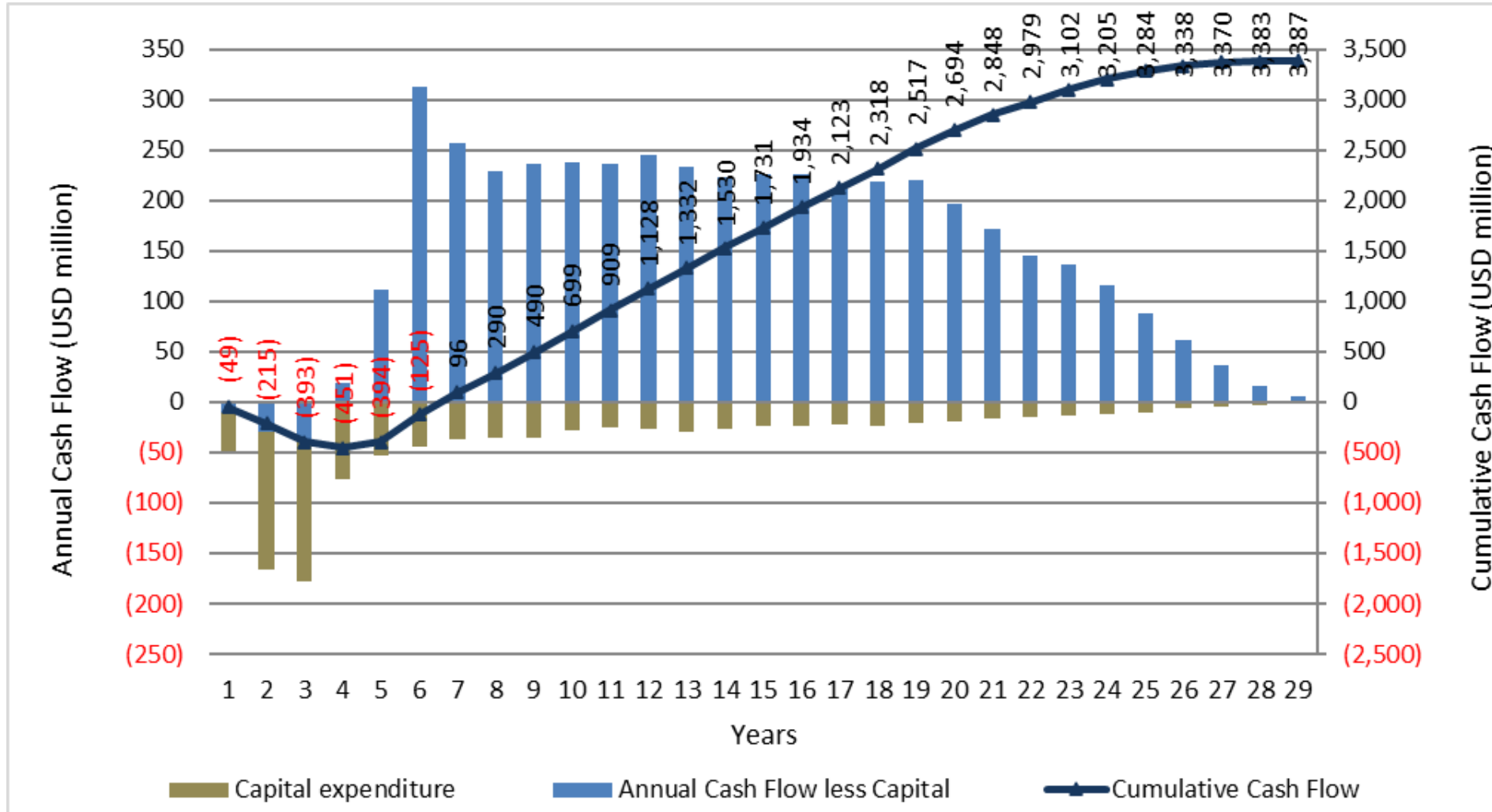


Commodity	Unit of Measure	Long term Real
Pt	USD / oz	1,200
Pd	USD / oz	1,100
Au	USD / oz	1,950
Rh	USD / oz	4,650
Cu	USD / t	8,708
Ni	USD / t	18,249
Chrome Conc. 42%	USD / t	225
EXCHANGE RATE	USD/ZAR	19.58

	Bearish (Metal Prices- Down 15%)	Base Case (Consensus)	Bullish (Metal Prices Up 15%)
Basket PGM 6E Price (USD/oz)	1,324	1,557	1,791
NPV8% - Pre tax (USDm)	1,061	1,562	2,066
IRR - Pre tax (%)	26%	32%	38%
NPV8% - Post tax (USDm)	706	1,060	1,413
IRR - Post tax (%)	22%	28%	33%
Payback Period Project Start (months)	87	78	73
Payback Period Start of Plant (months)	51	42	37

# PFS STUDY RESULTS

## ANNUAL AND CUMULATIVE CASH FLOW - USD (REAL TERMS)



# PFS STUDY RESULTS

## CORPORATE AND SOCIAL RESPONSIBILITY



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Long standing relationship with the **Bengwenyama Community** a single Community **and our partner** in the project

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**Social and Labour Plan** developed in line with the Mining Charter and MPRDA requirements to support community development.

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**Mining Right app** application submitted with granting expected early 2Q2025

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**Environmental impact Assessment** awaiting approval from DMRE

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**Social and Labour Plan** reviewed by DMRE and awaiting feedback from FTLM

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**Integrated Water and Waste Management Plan** (IWWMP) has been initiated

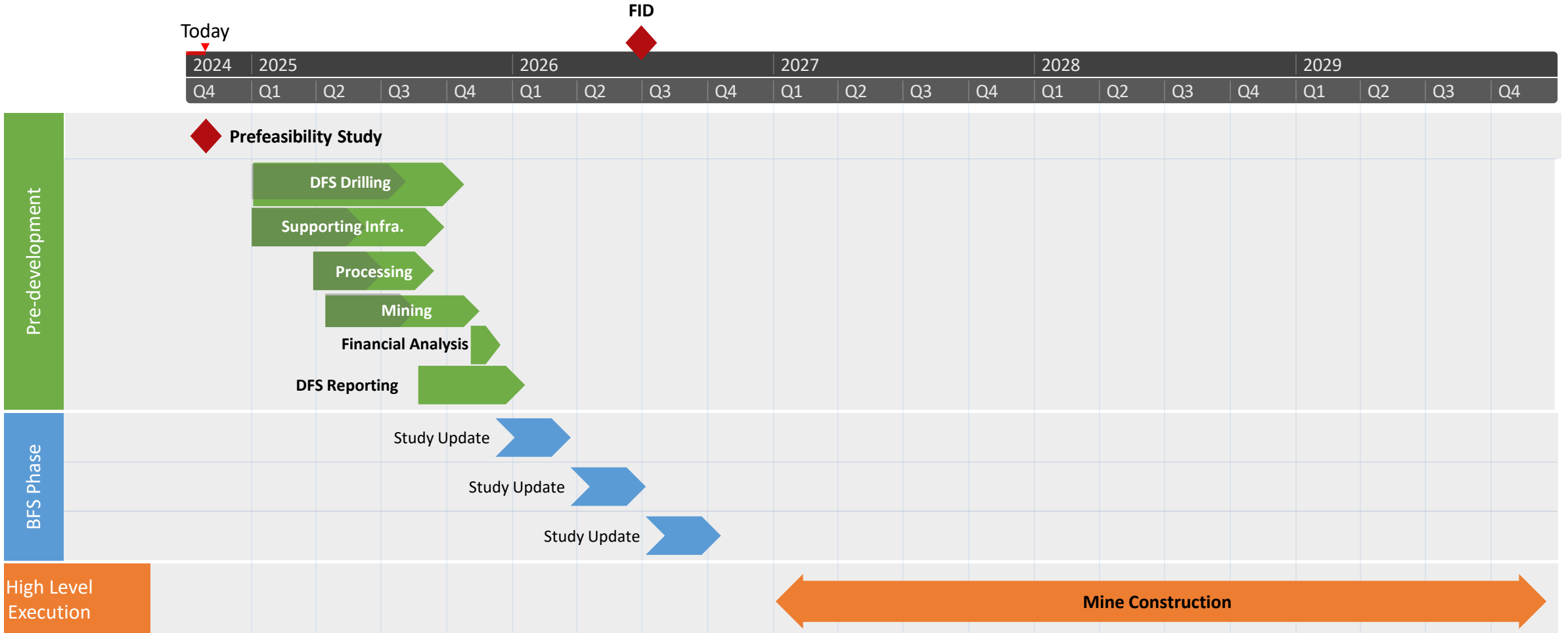
*Notes:*

- 1. DMRE: Department of Mineral Resources and Energy*
- 2. FTLM: Fetakgomo Tubatse Local Municipality*



# PFS STUDY RESULTS

## PROJECT TIMELINES



# BENGWENYAMA PROJECT INVESTMENT SUMMARY



## PGM POTENTIAL

**Advanced PGM Opportunity:** confirmed resource and reserve



## GEOLOGY

**Tier 1 Project:**  
40Moz Resource confirmed  
  
6.30Moz Reserve



## COMMUNITY

**In partnership with a single local community:** strong support for project development.



## LOCATION

**Prime location:** among Tier 1 operations with excellent infrastructure access



## MANAGEMENT TEAM

**Experienced management team:** Proven track record in PGMs, South Africa, and mine project development



## ATTRACTIVE VALUE

**PFS study validates robust project:**

- 2.4Mtpa
- 400koz PGM pa
- US\$1.060bn value
- 28% IRR
- Lower cost quartile with (AISC) of US\$800/6E oz

# CONTACT US



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Little Falls  
Roodepoort  
Johannesburg

## Sydney, Australia

Level 1, 283 George Street,  
Sydney, NSW 2000

Email: [info@southernpalladium.com](mailto:info@southernpalladium.com)

*The information in this presentation relating of Resources and Reserves is extracted from the report entitled "Prefeasibility Study Results: Project NPV8 of USD1.059bn Maiden JORC Ore Reserve of 6.29 million oz @ 6.17g/t PGM (6E) created on 28 October 2024 and is available to view on the Company's website at <https://www.southernpalladium.com/site/pdf/ffc418cf-eed6-40e3-b281-775356e029e1/Bengwenyama-PreFeasibility-Study-Project-NPV-of-US1059bn.pdf>. The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement 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 original market announcement.*



# Appendix



# PGM DYNAMICS ARE EXPERIENCING A CHANGE

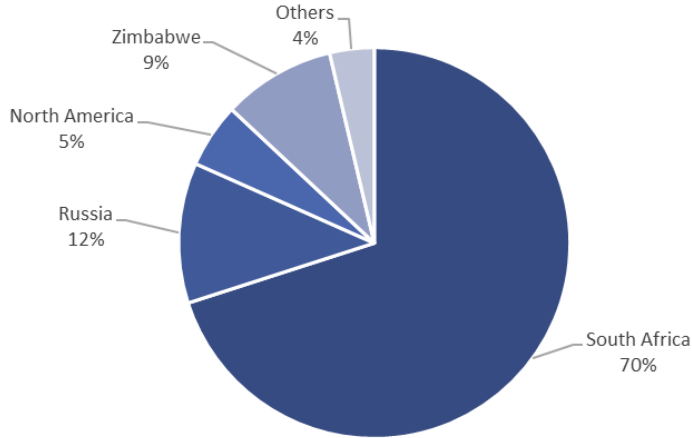


- **Decline in primary mine production:** South Africa's PGM production profile likely to decline marginally over the next few years as older deep level shafts face closure
- **Decline in Recycling:** Recycling rates have been decreasing for several years, further tightening supply. Recycling won't recover strongly due to shortage of scrap stock
- **Metal Deficits:** JM forecast deficits for Pt, Pd Rh and Ru for 2024, and WPIC predicts supply-to-demand deficits for Pt each year out to 2028
- **Disruption of the BEV Market:** growth in Battery Electric Vehicle (BEV) sales has plateaued
  - BEVs facing range, charging and resale headwinds
  - Severe tariffs on Chinese BEV exports to the EU
- **Hybrid Vehicle sales growth:** Hybrid vehicle sales growth higher than expected, with PGM autocat loadings higher than those in traditional internal combustion engines (ICEs)
- **ICE supply higher for longer:** With changing market sentiment, ICE supply is expected to be higher for longer versus original expectation of competition from BEVs
- **Jewellery Demand:** Widespread positivity and significant growth from India

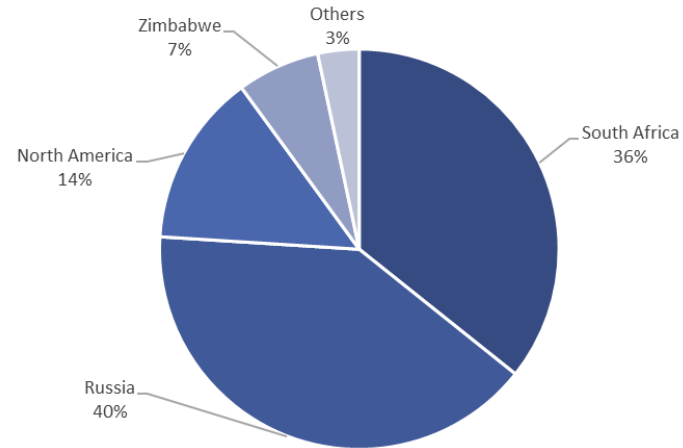
# PLATINUM GROUP METAL INDUSTRY -2024



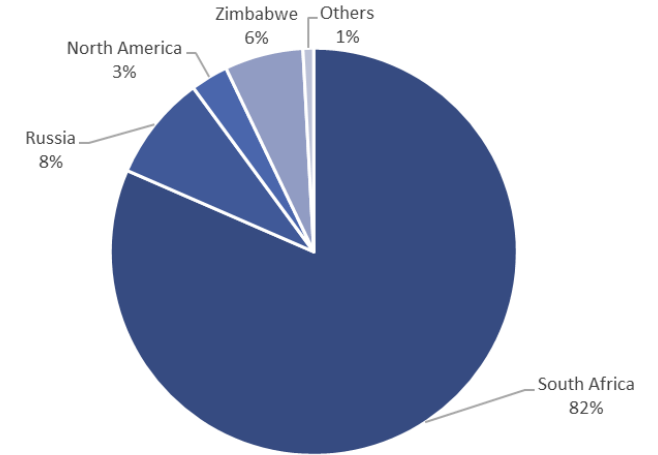
Platinum Supply - 5,681koz



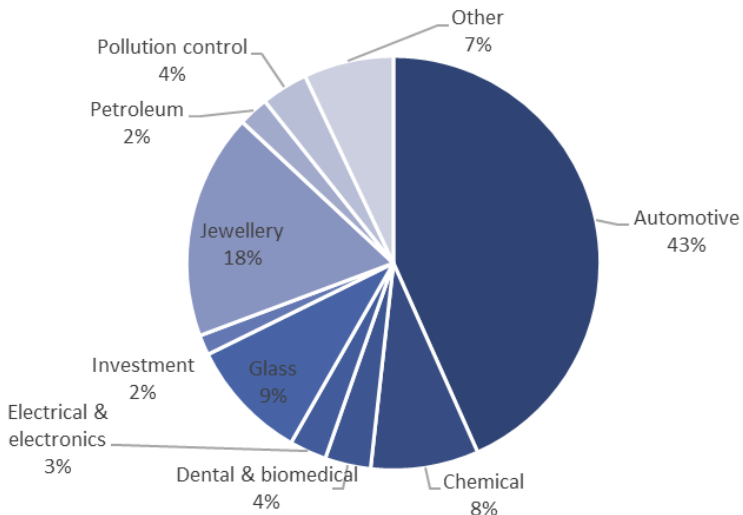
Palladium Supply – 6,454koz



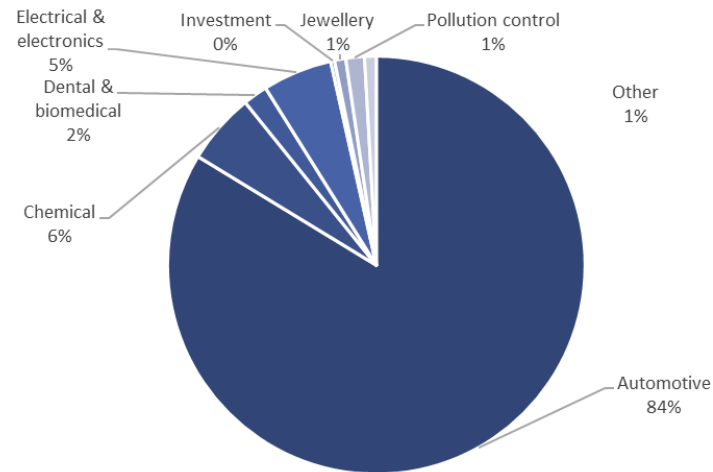
Rhodium Supply - 704koz



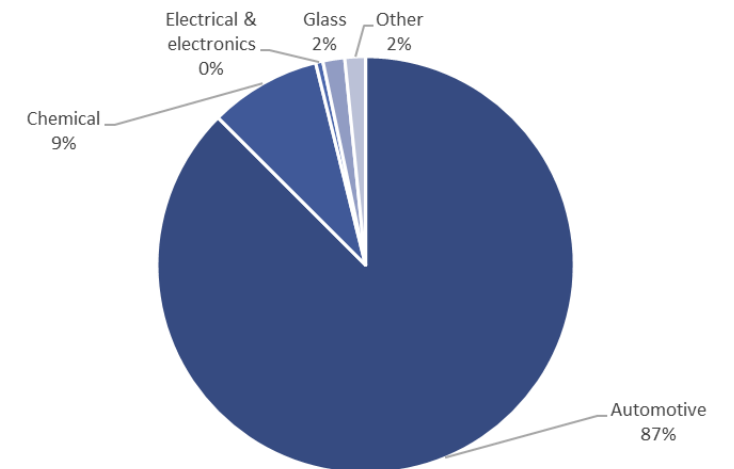
Secondary Supply – 1,335koz  
Platinum Demand – 7,614 koz



Secondary Supply – 2,919koz  
Palladium Demand – 9,731koz



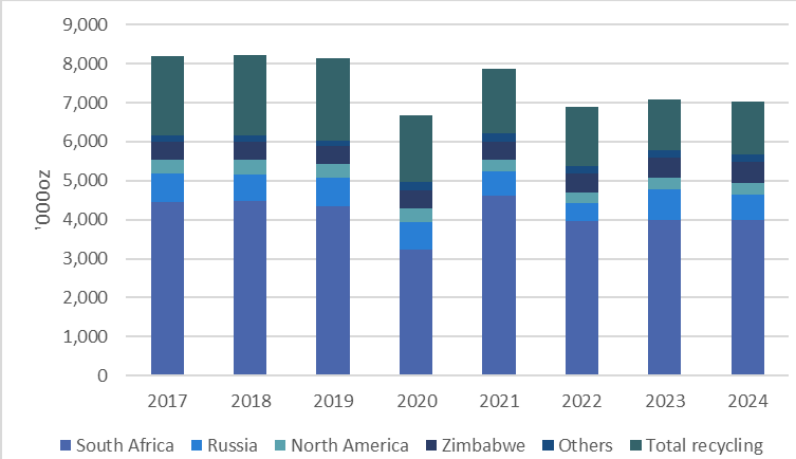
Secondary Supply – 295koz  
Rhodium Demand – 1,064koz



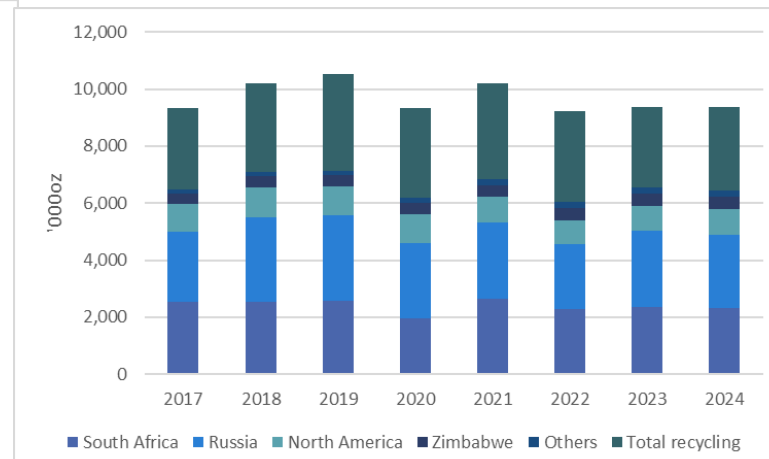
# PLATINUM GROUP METAL INDUSTRY -2024



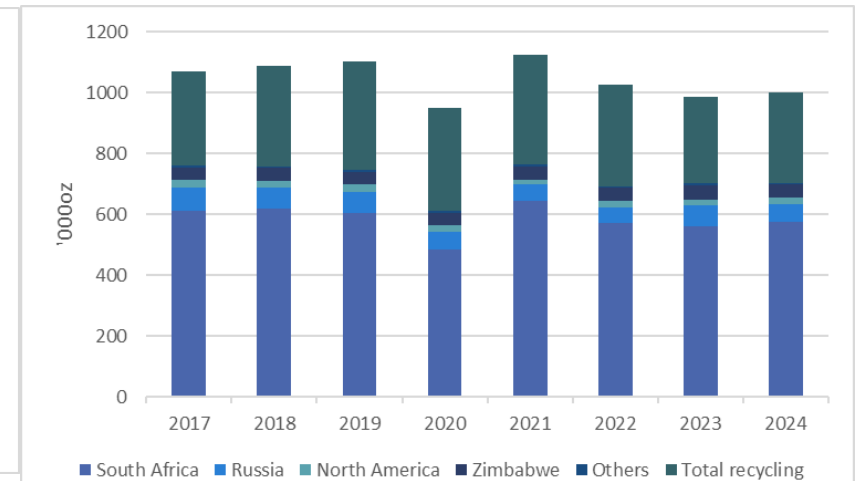
## Platinum



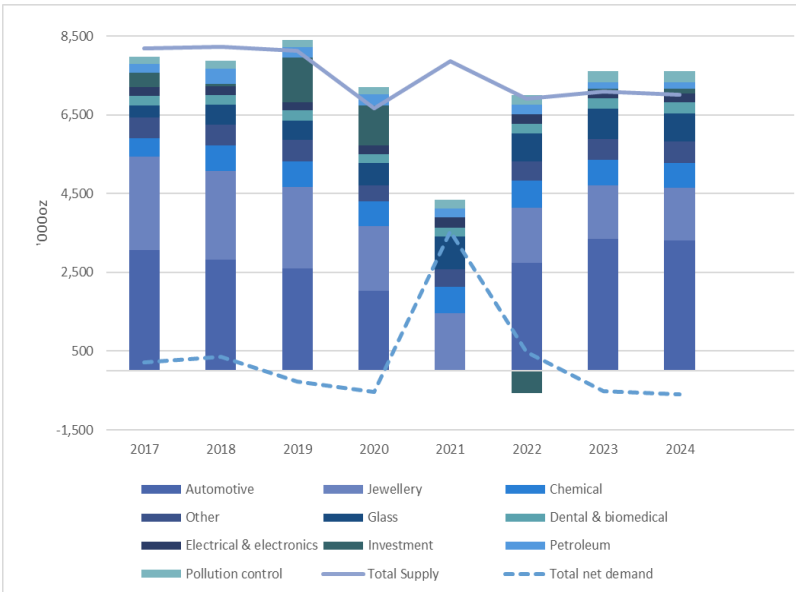
## Palladium Supply



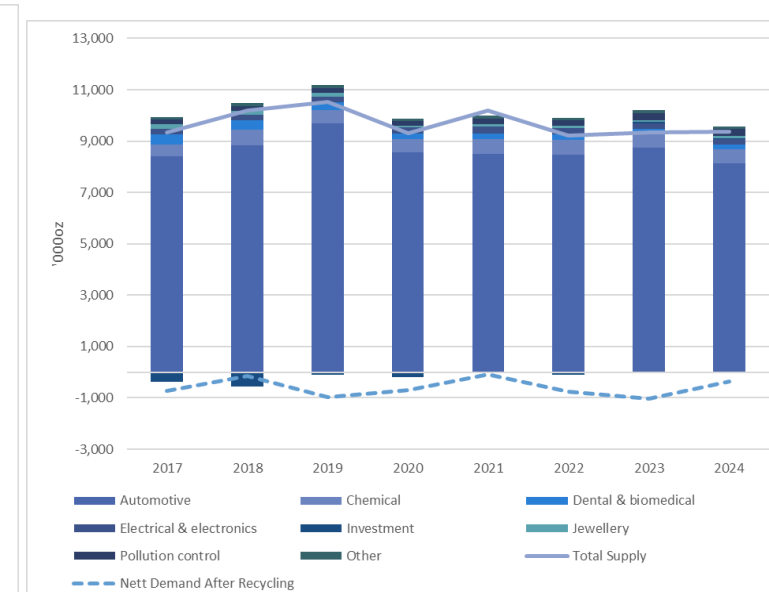
## Rhodium Supply



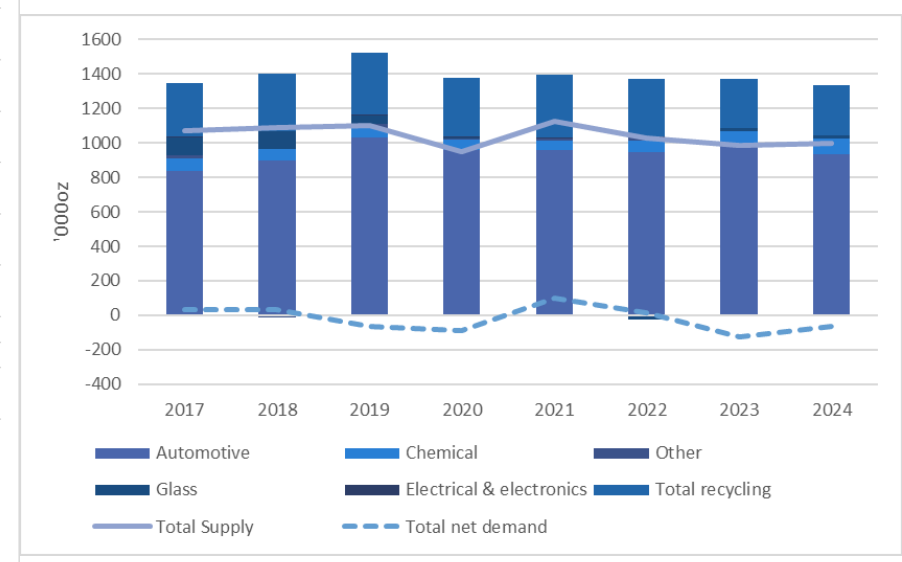
## Platinum Demand



## Palladium Demand



## Rhodium Demand



# PFS STUDY RESULTS

## RESOURCES AND RESERVES



### Combined UG2 and MR Mineral Resource as at 23 October 2024

Reef	Resource Category	Tonnes	Thickness	Pt	Pd	Rh	Au	Ir	Os	Ru	4E	7E	Cu	Ni	Moz (4E)	Moz (7E)	Total Moz <sup>1</sup>
		Mt	(m)	(g/t)										(%)			
Merensky	Indicated	25.11	2.02	1.62	0.64	0.10	0.12	0.03	0.03	0.21	2.49	2.76	0.04	0.12	2.01	2.23	2.23
Merensky	Inferred (7E)	62.54	1.81	2.09	0.86	0.14	0.18	0.04	0.04	0.26	3.22	3.55	0.05	0.14	6.47	7.13	7.13
<b>Merensky</b>	<b>Total (7E)</b>	<b>87.66</b>	<b>1.87</b>	<b>1.96</b>	<b>0.80</b>	<b>0.13</b>	<b>0.16</b>	<b>0.04</b>	<b>0.04</b>	<b>0.24</b>	<b>3.01</b>	<b>3.32</b>	<b>0.04</b>	<b>0.13</b>	<b>8.48</b>	<b>9.36</b>	<b>9.36</b>
Merensky	Inferred (4E)	59.44	1.96	2.01	0.93	0.10	0.17				3.18				6.08		6.08
<b>Merensky</b>	<b>Total (4E)</b>	<b>147.10</b>	<b>1.90</b>	<b>1.98</b>	<b>0.85</b>	<b>0.11</b>	<b>0.17</b>				<b>3.08</b>				<b>14.56</b>		<b>15.44</b>
UG2	Measured	7.17	0.77	3.69	3.75	0.76	0.12	0.25	0.17	1.24	8.34	10.00	0.03	0.16	1.92	2.30	2.3
UG2	Indicated	18.52	0.72	3.68	3.63	0.76	0.11	0.26	0.17	1.23	8.19	9.85	0.04	0.16	4.88	5.86	5.86
UG2	Inferred (7E)	33.01	0.69	3.67	3.50	0.76	0.11	0.26	0.17	1.23	8.04	9.70	0.04	0.17	8.54	10.30	10.3
<b>UG2</b>	<b>Total (7E)</b>	<b>58.70</b>	<b>0.71</b>	<b>3.67</b>	<b>3.57</b>	<b>0.76</b>	<b>0.11</b>	<b>0.26</b>	<b>0.17</b>	<b>1.23</b>	<b>8.12</b>	<b>9.78</b>	<b>0.04</b>	<b>0.17</b>	<b>15.33</b>	<b>18.46</b>	<b>18.46</b>
UG2	Inferred (4E)	36.12	1.30	3.00	2.01	0.44	0.07				5.47				6.35		6.35
<b>UG2</b>	<b>Total (4E)</b>	<b>94.82</b>	<b>0.93</b>	<b>3.42</b>	<b>2.98</b>	<b>0.64</b>	<b>0.10</b>				<b>7.11</b>				<b>21.68</b>		<b>24.81</b>
<b>Combined Total (7E)</b>		<b>146.35</b>	<b>1.40</b>	<b>2.64</b>	<b>1.91</b>	<b>0.38</b>	<b>0.14</b>	<b>0.13</b>	<b>0.09</b>	<b>0.64</b>	<b>5.06</b>	<b>5.91</b>	<b>0.04</b>	<b>0.14</b>	<b>23.81</b>	<b>27.82</b>	
<b>Combined Total (4E)</b>		<b>241.92</b>	<b>1.52</b>	<b>2.54</b>	<b>1.68</b>	<b>0.32</b>	<b>0.14</b>				<b>4.66</b>				<b>36.24</b>		
<b>Combined Total (7E&amp;4E)<sup>1</sup></b>																	<b>40.25</b>

### UG2 Ore Reserves Estimation as at 23 October 2024

Ore Reserve Category	Tonnes	Pt	Pd	Rh	Au	Ir	Os	Ru	4E	6E	Cu	Ni	Cr <sub>2</sub> O <sub>3</sub>	Moz(4E)	Moz(6E)
	Mt	(g/t)	(g/t)	(g/t)	(g/t)	(g/t)	(g/t)	(g/t)	(g/t)	(g/t)	(%)	(%)	(%)		
Probable	31.72	2.34	2.33	0.48	0.07	0.16	-	0.78	5.22	6.17	0.02	0.12	19.03	5.32	6.29
<b>Total</b>	<b>31.72</b>	<b>2.34</b>	<b>2.33</b>	<b>0.48</b>	<b>0.07</b>	<b>0.16</b>	<b>-</b>	<b>0.78</b>	<b>5.22</b>	<b>6.17</b>	<b>0.02</b>	<b>0.12</b>	<b>19.03</b>	<b>5.32</b>	<b>6.29</b>