

COPYRIGHT AND DISCLAIMER



IMPORTANT NOTICE AND DISCLAIMER: This publication is general and solely for educational purposes. The publisher, The World Platinum Investment Council, has been formed by the world's leading platinum producers to develop the market for platinum investment demand. Its mission is to stimulate investor demand for physical platinum through both actionable insights and targeted development, providing investors with the information to support informed decisions regarding platinum and working with financial institutions and market participants to develop products and channels that investors need.

The research for the period since 2019 attributed to Metals Focus in the publication is © Metals Focus Copyright reserved. All copyright and other intellectual property rights in the data and commentary contained in this report and attributed to Metals Focus, remain the property of Metals Focus, one of our third-party content providers, and no person other than Metals Focus shall be entitled to register any intellectual property rights in that information, or data herein. The analysis, data and other information attributed to Metals Focus reflect Metals Focus' judgment as of the date of the document and are subject to change without notice. No part of the Metals Focus data or commentary shall be used for the specific purpose of accessing capital markets (fundraising) without the written permission of Metals Focus.

The research for the period prior to 2019 attributed to SFA in the publication is © SFA Copyright reserved.

This publication is not, and should not be construed to be, an offer to sell or a solicitation of an offer to buy any security. With this publication, neither the publisher nor its content providers intend to transmit any order for, arrange for, advise on, act as agent in relation to, or otherwise facilitate any transaction involving securities or commodities regardless of whether such are otherwise referenced in it. This publication is not intended to provide tax, legal, or investment advice and nothing in it should be construed as a recommendation to buy, sell, or hold any investment or security or to engage in any investment strategy or transaction. Neither the publisher nor its content providers are, or purports to be, a broker-dealer, a registered investment advisor, or otherwise registered under the laws of the United States or the United Kingdom, including under the Financial Services and Markets Act 2000 or Senior Managers and Certifications Regime or by the Financial Conduct Authority.

This publication is not, and should not be construed to be, personalized investment advice directed to or appropriate for any particular investor. Any investment should be made only after consulting a professional investment advisor. You are solely responsible for determining whether any investment, investment strategy, security or related transaction is appropriate for you based on your investment objectives, financial circumstances, and risk tolerance. You should consult your business, legal, tax or accounting advisors regarding your specific business, legal or tax situation or circumstances.

The information on which this publication is based is believed to be reliable. Nevertheless, neither the publisher nor its content providers can guarantee the accuracy or completeness of the information. This publication contains forward-looking statements, including statements regarding expected continual growth of the industry. The publisher and Metals Focus note that statements contained in the publication that look forward in time, which include everything other than historical information, involve risks and uncertainties that may affect actual results and neither the publisher nor its content providers accept any liability whatsoever for any loss or damage suffered by any person in reliance on the information in the publication.

The logos, services marks and trademarks of the World Platinum Investment Council are owned exclusively by it. All other trademarks used in this publication are the property of their respective trademark holders. The publisher is not affiliated, connected, or associated with, and is not sponsored, approved, or originated by, the trademark holders unless otherwise stated. No claim is made by the publisher to any rights in any third-party trademarks.

© 2025 World Platinum Investment Council Limited. All rights reserved. The World Platinum Investment Council name and logo and WPIC are registered trademarks of World Platinum Investment Council Limited. No part of this report may be reproduced or distributed in any manner without attribution to the publisher, The World Platinum Investment Council, and the authors.

AGENDA: PLATINUM QUARTERLY: Q4 2024, FINAL 2024 ESTIMATES AND UPDATED 2025 OUTLOOK



1. Introduction

Trevor Raymond, CEO

2. Platinum Quarterly, fundamentals review Edward Sterck

3. Current thematics

Edward Sterck

4. Questions

Trevor Raymond Edward Sterck



AGENDA: PLATINUM QUARTERLY: Q4 2024, FINAL 2024 ESTIMATES AND UPDATED 2025 OUTLOOK



1. Introduction

Trevor Raymond

2. Platinum Quarterly, fundamentals review

 Supply, demand and balance: Q4 2024, final 2024 estimates, and updated 2025 outlook

Edward Sterck, Director of Research

3. Current thematics

Edward Sterck

4. Questions

Trevor Raymond Edward Sterck



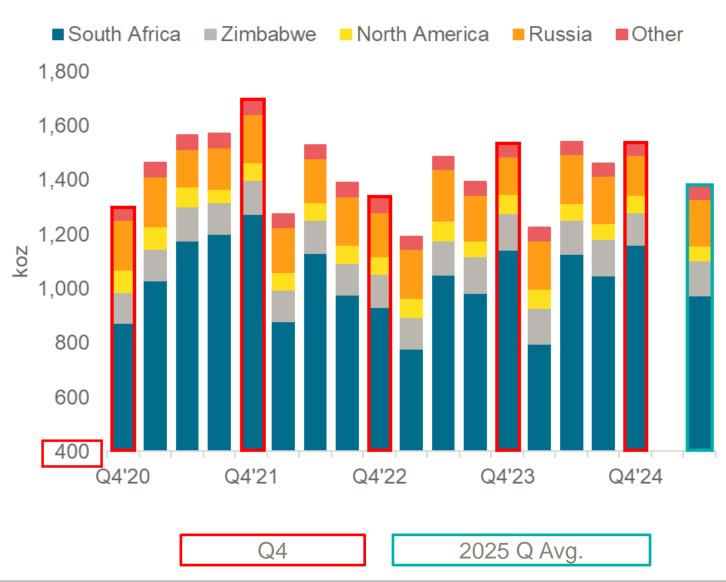
Q4 2024 SUPPLY: MINE SUPPLY UP 2% YOY ON RELEASE OF WIP INVENTORY, RECYCLING ALSO UP 1%



SUPPLY (koz)	Q4 2023	// Q3 2024	Q4 2024	YoY	QoQ
Refined Production	1,532	1,461	1,539	0%	5%
South Africa	1,143	1,049	1,160	2%	11%
Zimbabwe	133	132	121	-9%	-8%
North America	72	60	63	-11%	5%
Russia	136	172	146	7%	-15%
Other	48	48	47	0%	0%
Inc(-)/Dec(+) in Producer Inventory	-23	-11	-4	-81%	-61%
Total Mining Supply	1,509	1,450	1,534	2%	6%
Recycling	399	342	404	1%	18%
Autocatalyst	295	254	310	5%	22%
Jewellery	85	68	74	-13%	9%
Industrial	18	20	20	10%	3%
Total Supply	1,907	1,792	1,938	2%	8%

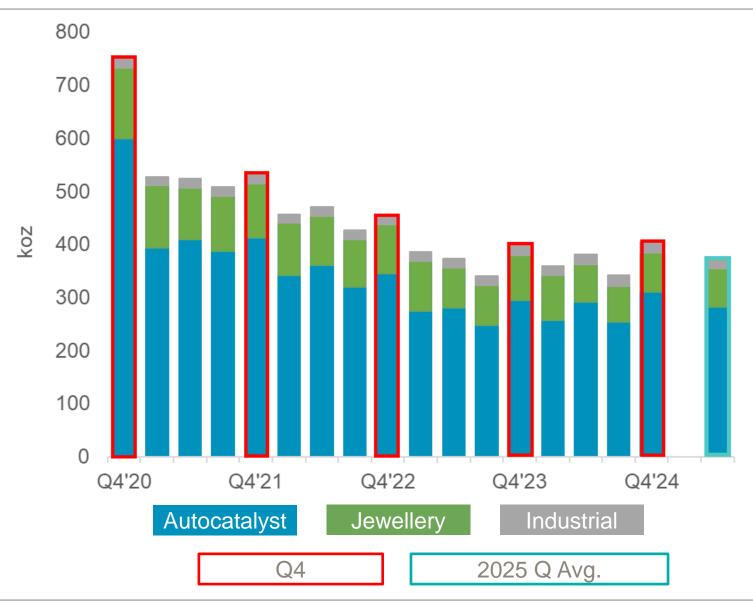
Q4 2024 REFINED MINE SUPPLY: SOUTH AFRICA RELEASED WORK-IN-PROCESS INVENTORY





Q4 2024 RECYCLING SUPPLY IMPROVED QOQ BUT REMAINED EXTREMELY DEPRESSED





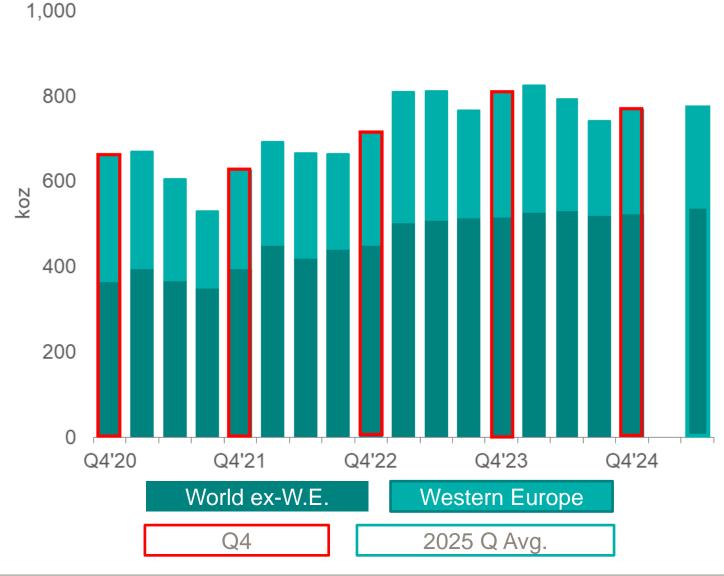
Q4 2024 DEMAND: UP 22% ON JEWELLERY GROWTH AND A SIGNIFICANT POSITIVE SWING IN INVESTMENT



DEMAND (koz)	Q4 2023	// Q3 2024	Q4 2024	YoY	QoQ
Automotive	813	743	768	-6%	3%
Autocatalyst	813	743	768	-6%	3%
Non-road	†		†	†	
Jewellery	472	485	520	10%	7%
Industrial	592	557	547	-8%	-2%
Chemical	133	136	128	-3%	-5%
Petroleum	39	40	40	2%	0%
Electrical	22	24	24	9%	0%
Glass	167	125	116	-30%	-7%
Medical & Biomedical	72	77	79	9%	3%
Hydrogen Stationary and Other	10	12	15	46%	21%
Other	150	144	145	-3%	1%
Investment	-78	-230	360	n/a	n/a
Change in Bars, Coins	61	65	54	-11%	-17%
China Bars ≥ 500g	48	30	38	-22%	26%
Change in ETF Holdings	-171	-300	142	n/a	n/a
Change in Stocks Held by Exchanges	-16	-25	126	n/a	n/a
Total Demand	1,799	1,555	2,195	22%	41%
Balance	108	237	-256	n/a	n/a

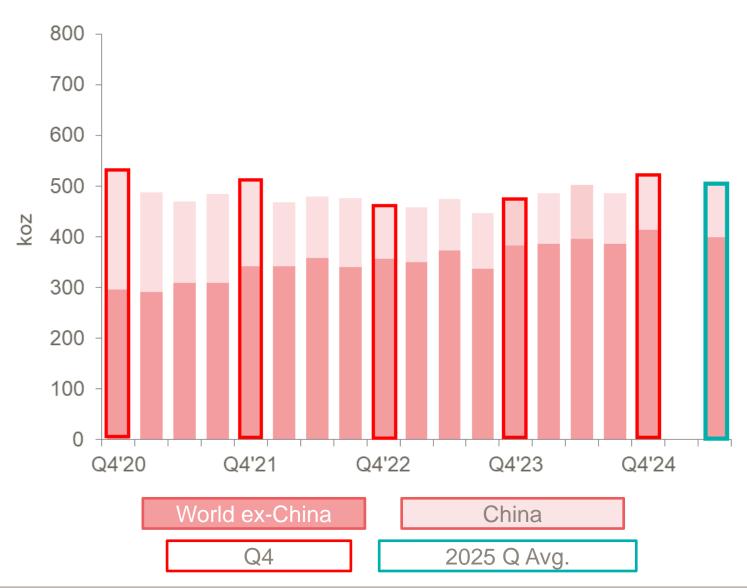
Q4 2024 AUTOMOTIVE: DOWN 6% YOY ON 2% AND 14% LOWER CATALYSED LDV AND HDV PRODUCTION





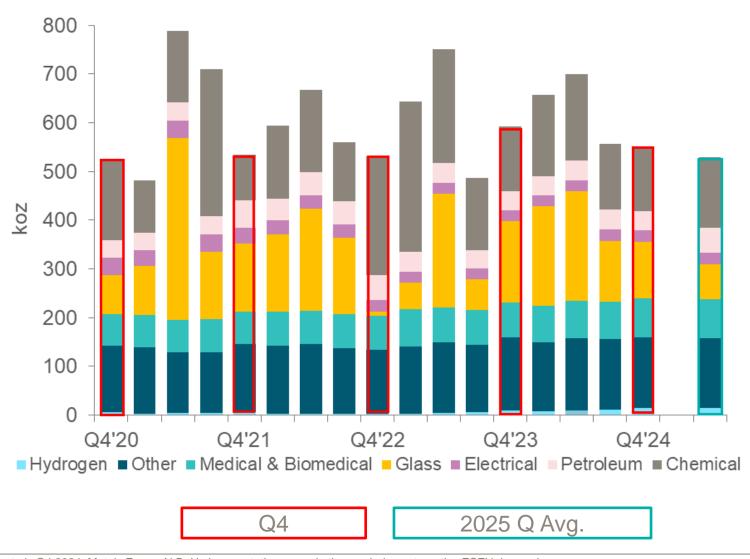
Q4 2024 JEWELLERY: POSITIVE MOMENTUM WITH DEMAND STRENGTH ACROSS ALL GEOGRAPHIES





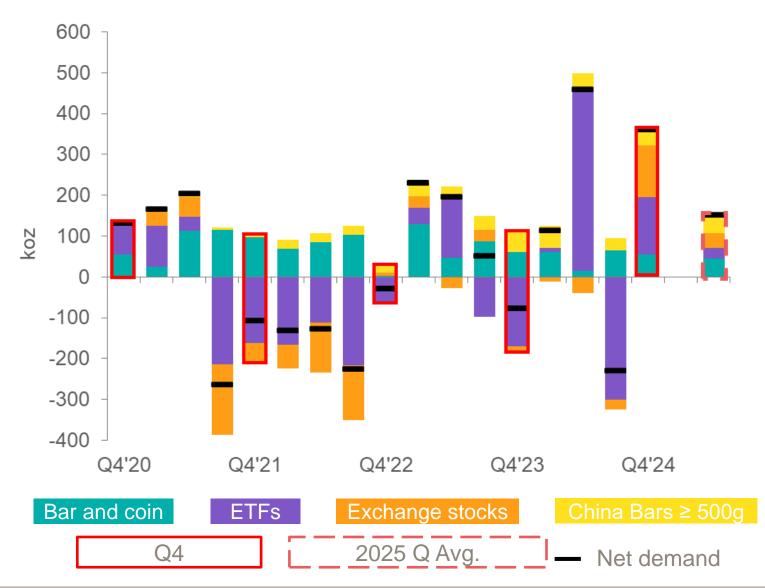
Q4 2024 INDUSTRIAL DEMAND: DOWN 8% YOY WITH GLASS CAPACITY ADDITIONS NORMALISING





Q4 2024 INVESTMENT DEMAND: SIGNIFICANT Q4 INVESTMENT INFLOWS – UPSIDE RISK IN 2025





2023 - 2025F FULL YEAR: THIRD CONSECUTIVE MATERIAL DEFICIT



SUPPLY (koz)		2023	2024	YoY, %	2025f	YoY, %
Refined Production	1	5,604	5,766	3%	5,506	-5%
	South Africa	3,957	4,132	4%	3,899	-6%
	Zimbabwe	507	512	1%	514	0%
	North America	275	254	-8%	216	-15%
	Russia	674	677	0%	686	1%
	Other	190	191	0%	191	0%
Inc (-)/Dec (+) in Producer Inventory		+11	+41	261%	0	-100%
Total Mining Suppl	у	5,615	5,807	3%	5,506	-5%
Recycling		1,499	1,486	-1%	1,496	1%
rtcoyomig	Autocatalyst	1,098	1,113	1%	1,129	1%
	Jewellery	331	298	-10%	286	-4%
	Industrial	71	76	7%	81	7%
Total Supply		7,114	7,293	3%	7,002	-4%
						
DEMAND (koz)						
	Automotive	3,202	3,130	-2%	3,102	-1%
	Jewellery	1,849	1,993	8%	2,027	2%
	Industrial	2,475	2,462	-1%	2,116	-14%
	Investment	397	702	77%	606	-14%
Total Demand		7,924	8,288	5%	7,850	-5%
Balance		-809	-995	N/A	-848	N/A
Above Ground Sto	rke	4,378	3,383	-23%	2,535	-25%

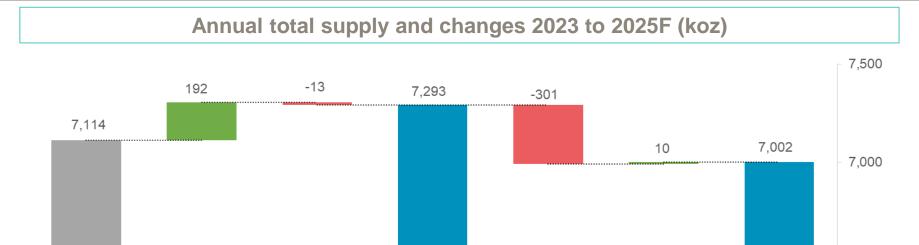
2025F OUTLOOK: WEAKER MINE SUPPLY COINCIDES WITH A CYCLICAL INDUSTRIAL DOWNTURN IN 2025

Recycling



6.500

2025f

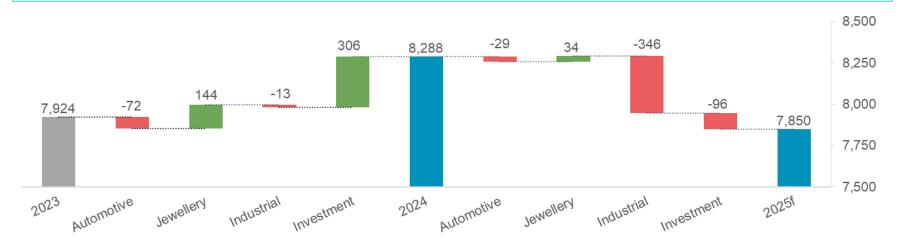


Annual total demand and changes 2023 to 2025F (koz)

Total mining supply

Recycling

2024



2023

Total mining supply

AGENDA: PLATINUM QUARTERLY: Q4 2024, FINAL 2024 ESTIMATES AND UPDATED 2025 OUTLOOK



1. Introduction

Trevor Raymond

2. Platinum Quarterly, fundamentals review Edward Sterck

3. Current thematics

- Entrenched deficits and declining above ground stocks
- Estimated impacts of proposed US Tariffs
- EV slowdown continues
- Recycling struggles

Edward Sterck, Director of Research

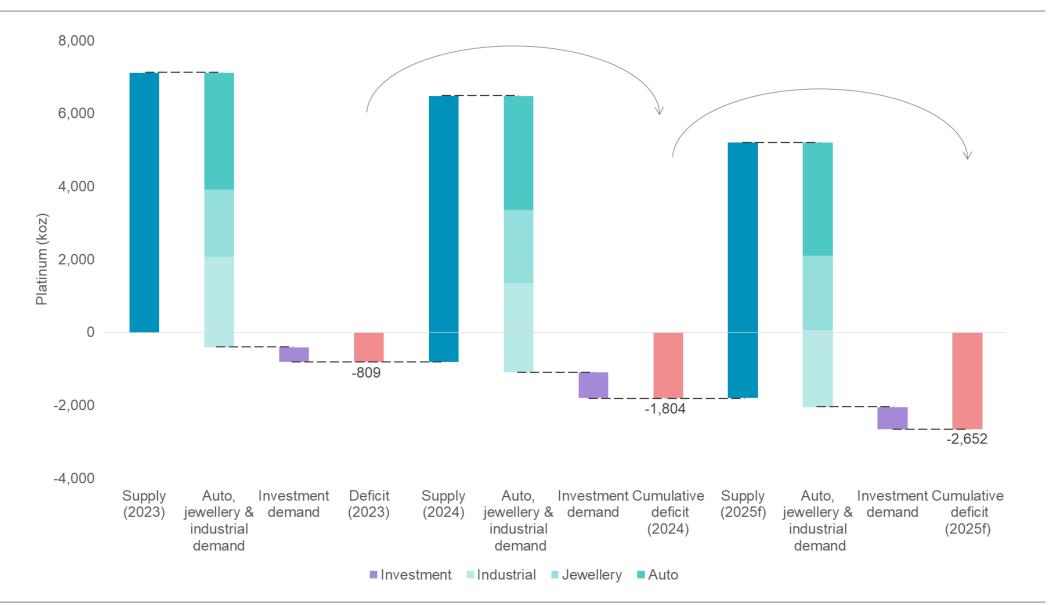
4. Questions

Trevor Raymond Edward Sterck



THE DEFICITS ARE STRUCTURAL WITH A CUMULATIVE DEFICIT OF OVER 2.6 MOZ BY END 2025

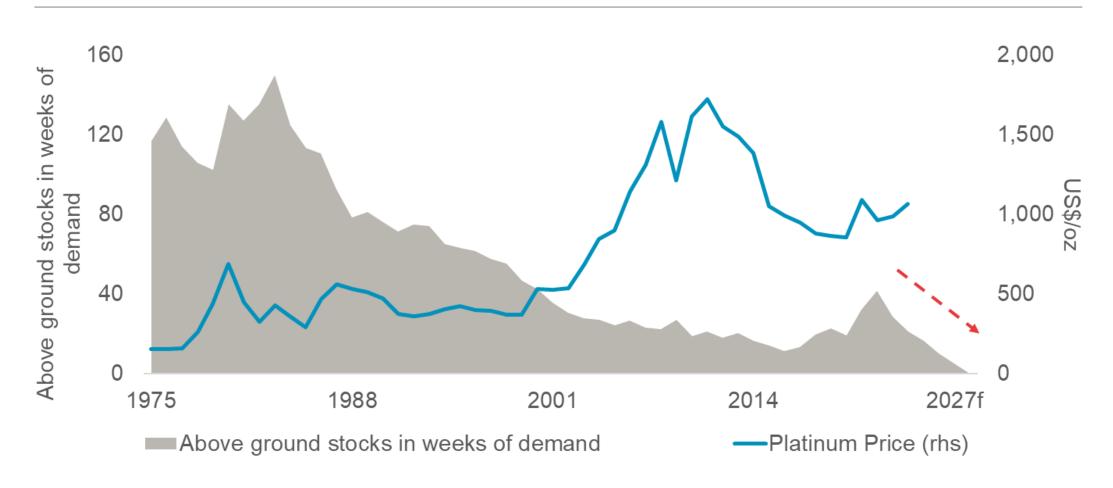




Source: Bloomberg, WPIC research

AS ABOVE GROUND STOCKS DEPLETE, DO THEY MATTER & HOW LOW CAN THEY FALL?

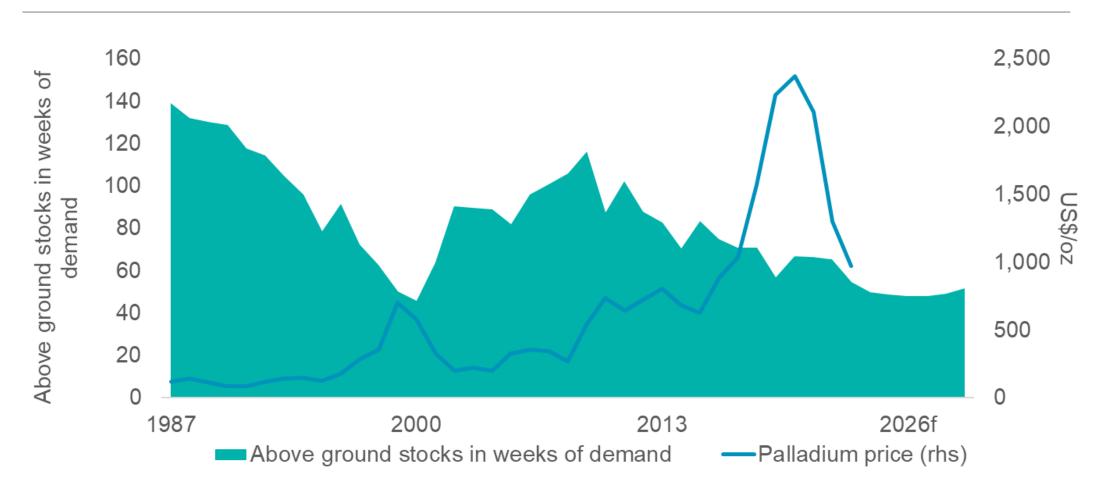




- WPIC's definition of above ground stocks is unallocated vaulted material.
- Other market commentators include ETFs, stocks held on exchange and working inventories.

PALLADIUM STOCKS HAVE NOT ALWAYS INFORMED PRICE PERFORMANCE

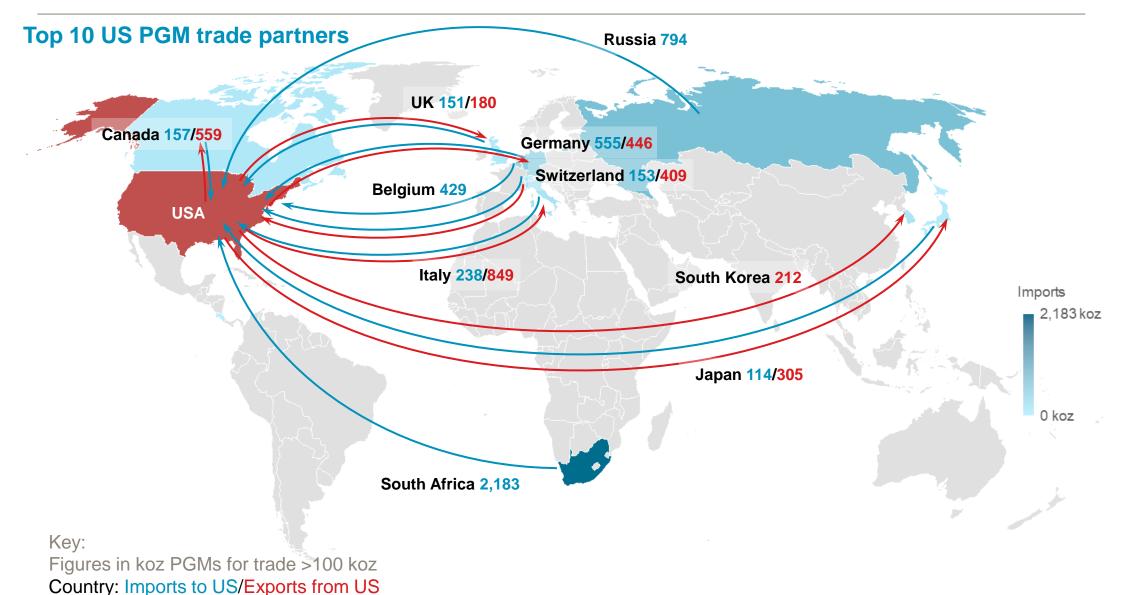




Above ground stocks do not need to reach zero before price responds to market tightness.

US PGM TRADE FLOWS - IN 2023 THE US IMPORTED 5.1 MOZ AND EXPORTED 3.2 MOZ

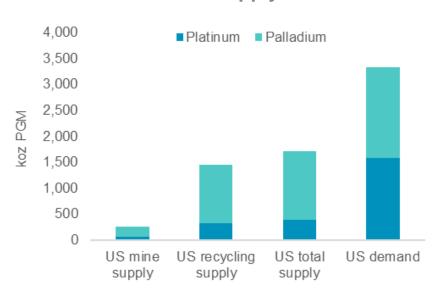




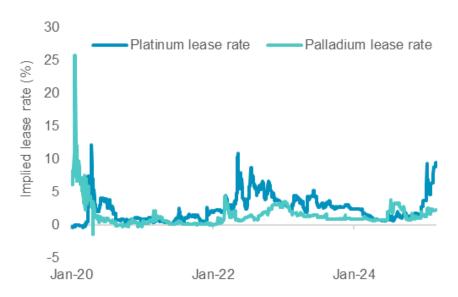
US DOMESTIC PGM SUPPLIES TOTAL ONLY ABOUT 50% OF ANNUAL DEMAND



US domestic PGM supply vs. demand



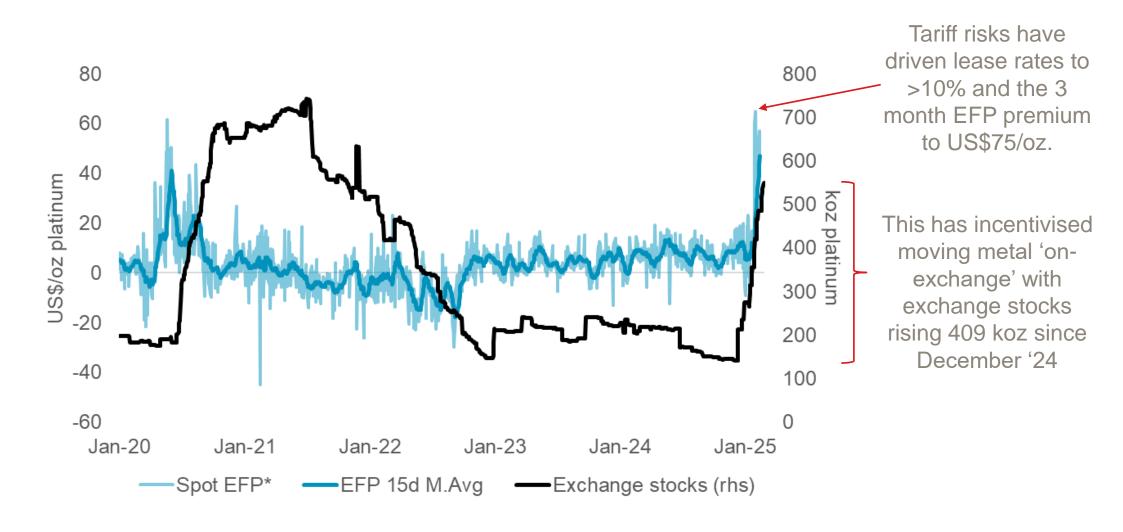
Implied 3 month lease rates have risen sharply



- The US has one PGM mine and quite substantial recycling
- Tariff risks are shining a light on the lack of domestic supply
- A scramble to secure metal is leading to a leap higher in lease rates
- Reflecting domestic supply balance, platinum lease rates are more impacted than palladium

EFP RATES REFLECT RISKS AND DRIVE UP STOCKS HELD ON EXCHANGE (MAINLY NYMEX)



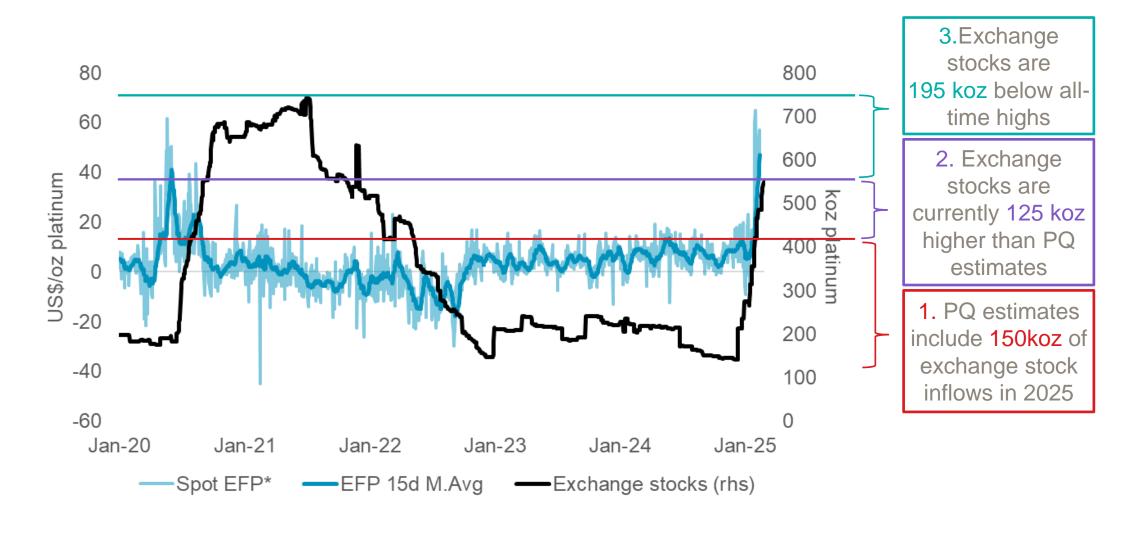


*Spot EFP is a blend of the 1- and 3-month implied EFP rates

Source: Bloomberg, WPIC Research

STOCKS HELD ON EXCHANGE EXCEED 2025 OUTLOOK BUT NOT YET AT PEAK LEVELS

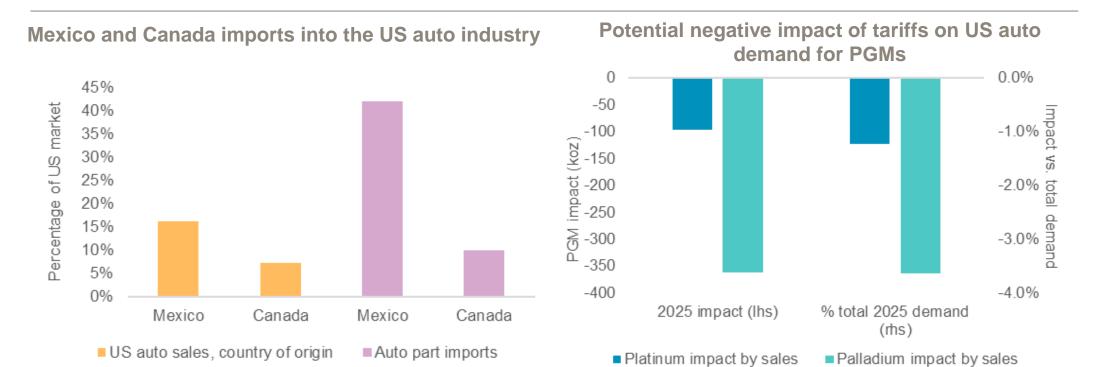




Source: Bloomberg, WPIC Research

US TARIFFS HAVE NEGATIVE IMPLICATIONS FOR AUTO PRODUCTION AND PGM DEMAND





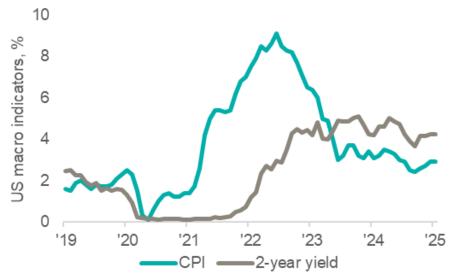
- The North American automotive industry is too highly integrated to untangle quickly
- Proposed 25% tariffs on Canada and Mexico likely to increase prices and suppress demand
- The damage to auto demand alone could total 100 koz platinum and 360 koz palladium

Note this is North America only – US tariffs on the EU and beyond would accentuate matters

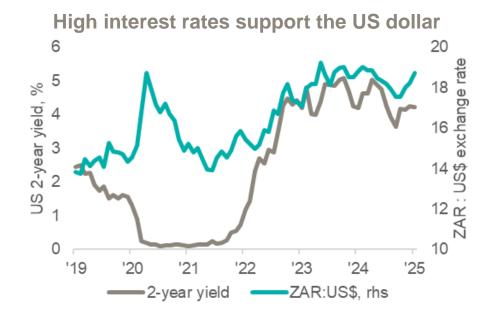
US POLICIES POTENTIALLY NEGATIVE FOR US DOLLAR PLATINUM PRICE



US inflation and interest rates could remain elevated



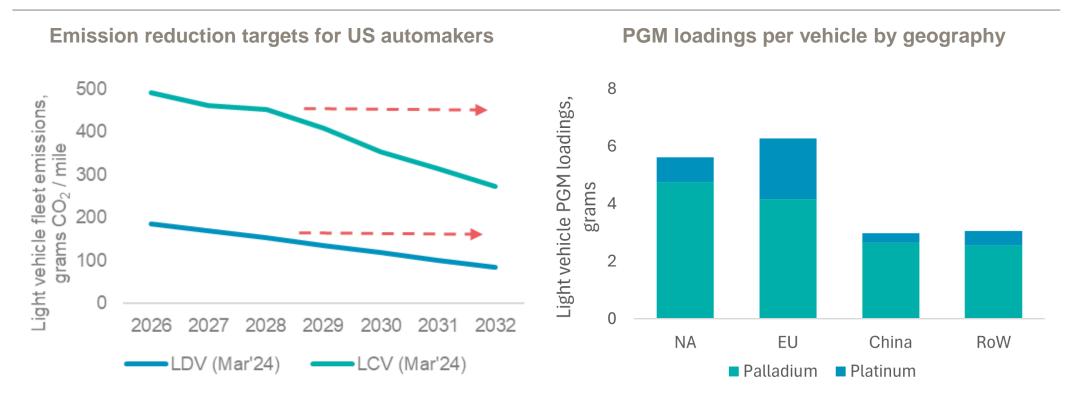
Variable	Underlying change	Impact on Price
Automotive demand	+/-100koz	+/-\$28
Jewellery demand	+/-100koz	+/-\$23
Gold Price	+/-100\$/oz	+/-\$68
Interest rates	+/-100bps	-/+\$24
USD:ZAR	+/-1 USD:ZAR	-/+\$60
NYMEX % Net Long	+/-10% Long/OI	+/-\$37



- Protectionist policies are inflationary and likely to lead to higher for longer interest rates and a stronger US dollar.
- As shown in our Platinum Price
 Attribution Model, these factors do not support platinum price strength.

US ENVIRONMENTAL ROLLBACK MORE POSITIVE THAN NEGATIVE FOR PLATINUM IN THE LONG RUN

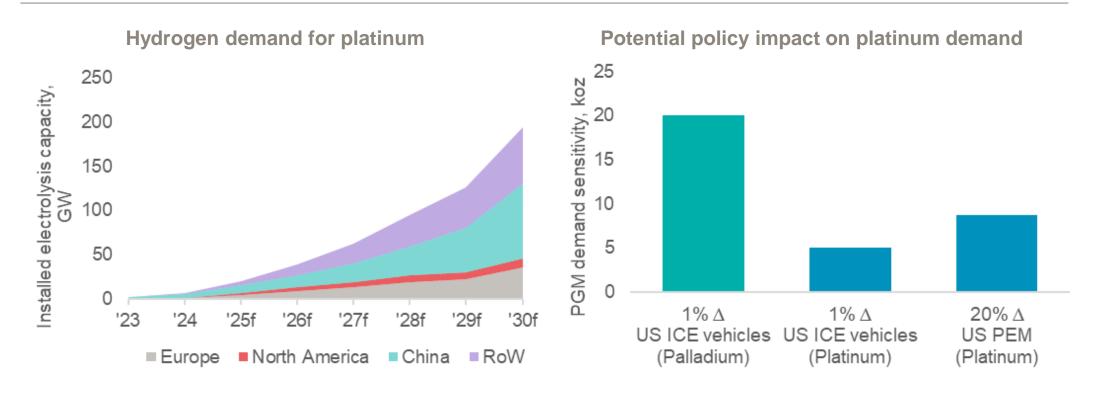




- Weakening CO₂ emissions targets lowers automaker commitments to electrify fleet
- N.A. vehicles have the highest avg. Palladium loadings due to consumers' preference for larger gasoline vehicles

US ENVIRONMENTAL ROLLBACK MORE POSITIVE THAN NEGATIVE FOR PLATINUM IN THE LONG RUN

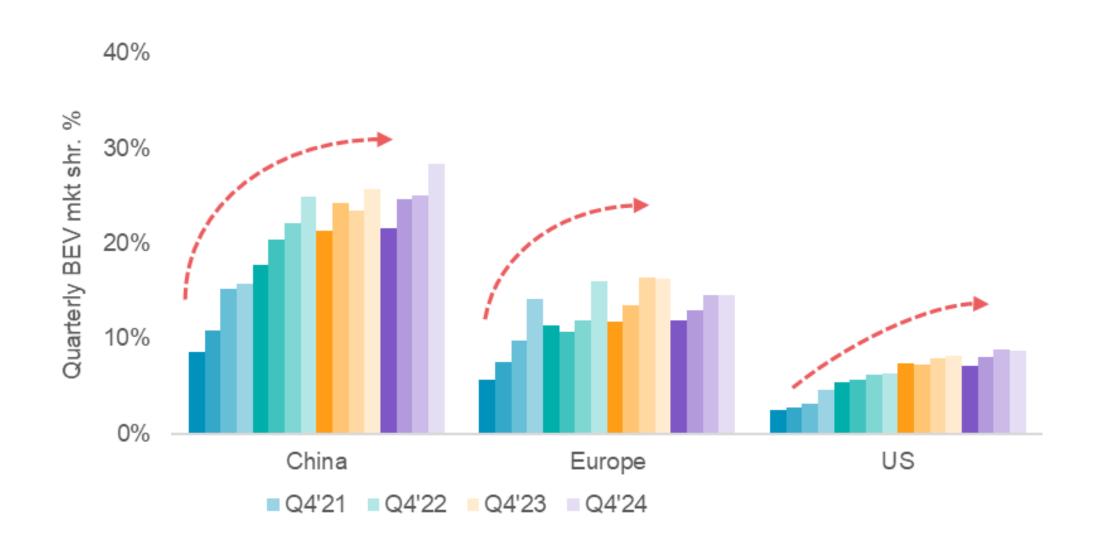




- Even with the Inflation Reduction Act, the US is an H₂ laggard versus the rest of the world
- Downside risks to US BEV penetration rates significantly exceed H₂ downside

EV TRENDS CONTINUE – ADOPTION RATE GROWTH CONTINUES BUT AT AN EVER-SLOWER PACE



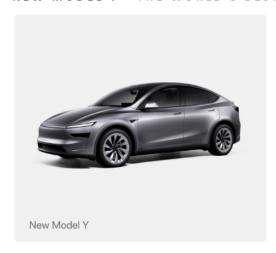


Source: Bloomberg, WPIC Research

EV TRENDS CONTINUE – EVEN MUSK IS TRYING TO PUT PEOPLE OFF TESLAS (UNINTENTIONALLY)



NEW MODEL Y - THE WORLD'S BEST SELLING VEHICLE IS NOW EVEN BETTER





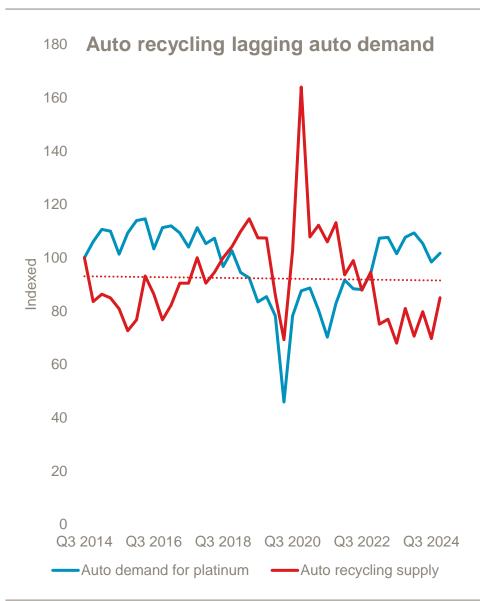
	Model Y	New Model Y
Trim	Long Range All-Wheel Drive	LAUNCH
		Long Range All-Wheel Drive
Delivery Timing	Available Now	Available starting March
Starting Price After Est. Savings	\$34,490	\$46,490* + 35 /
Range**	311 miles (EPA est.)	320 miles (est.)
Seating	First row: power recline and heated Second row: manual fold and heated	First row: power recline, heated and ventilated Second row: power two-way folding and heated
Displays	15.4" front-row touchscreen	15.4" front-row touchscreen 8" second-row touchscreen
Ride Comfort	First-generation suspension First-generation noise reduction hardware	Second-generation suspension Second-generation noise reduction hardware
Cameras	7 exterior cameras	8 exterior cameras (includes new front-facing camera)
Audio	13 speakers, 1 subwoofer	15 speakers, 1 subwoofer
Connectivity	First-generation hardware	Second-generation hardware
Trunk	Power open	Hands-free power open on approach
Interior	Footwell and door pocket ambient lighting Wooden detailing with black interior	Footwell and door pocket ambient lighting Wrap-around ambient lighting Aluminum detailing and premium textiles
Climate	Tinted and laminated safety glass Power-actuated first-row air vents Manual second-row air vents	Laminated safety glass on cabin windows and roof Tinted safety glass with metallic infrared reflective coating across the roof Power-actuated first- and second-row air vents

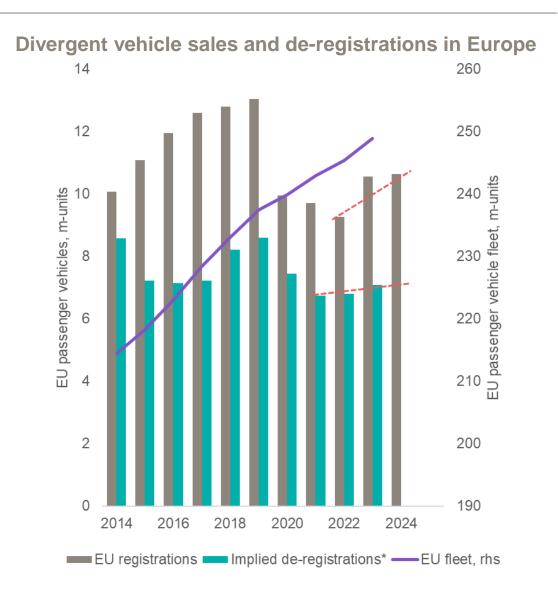
^{*} Before estimated savings, Model Y Rear-Wheel Drive starts at (U.S.) and New Model Y Launch Series Long Range All-Wheel Drive starts at (U.S.). Prices include Destination and Order Fees, but exclude taxes and other fees. Subject to change. New Model Y Launch Series has upgrades that will increase the price. Estimated savings includes \$6,000 in gas savings estimated over five years and the \$7,500 Federal Tax Credit, available to eligible buyers and subject to MSRP caps. Not all vehicles, customers or finance options will be eligible. Terms apply.

Source: Tesla, WPIC Research

AUTOCATALYST RECYCLING REMAINS AT HISTORIC LOWS, RECOVERY MAY BE SLOWER THAN EXPECTED







WHY INVEST IN PLATINUM?





- Three years of entrenched platinum deficits
- Demand largely inelastic
- Rapid depletion of above ground stocks
- Tariff damages cannot eliminate deficits
- Strong investment interest

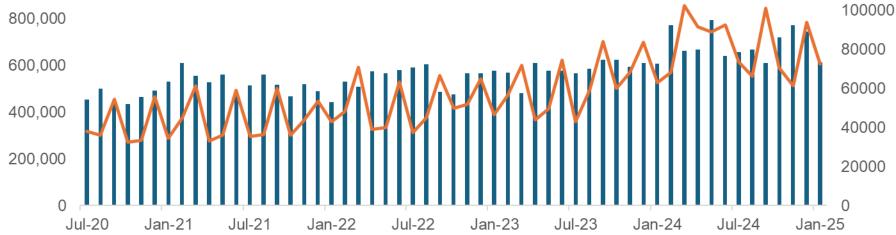
PLATINUM IN A NARROWING TRADING RANGE WITH TRADING VOLUMES CONTINUING TO INCREASE



The platinum price trading range is narrowing



Even as volumes
continue to
increase across
futures (NYMEX
shown here)
options and ETFs



Source: Bloomberg

WPIC INITIATIVES, UPCOMING RESEARCH AND SHANGHAI PLATINUM WEEK







The Perth Mint's 2025 Lunar series and Kangaroo











Costco: Fortuna bar, Maple coin

CGCG Panda, 1kg bar

WPIC initiatives:

- New partner in Japan Noguchi Coin
- Regular release of platinum coins together with gold counterparts
- Using 2024 news flow from key new products to help further lift overall market; to continue in 2025
 - Costco platinum bars & coins
 - China Gold Coin Group's 1kg Fish to Dragon bar

Upcoming WPIC Research:

- Platinum price attribution model update
- Recycling assessment

Shanghai Platinum Week Dates – 7-11 July

Source: Yue Heng, Metals Focus, WPIC

NEW WPIC PRE-PRODUCTION MEMBERS BRAVO MINING CORP. AND PODIUM MINERALS





Bravo Becomes a Member of the World Platinum Investment Council - WPIC®

Joins Some of World's Leading Platinum Producers

VANCOUVER, January 23, 2025 – Bravo Mining Corp. (TSX.V: BRVO, OTCQX: BRVMF), ("Bravo" or the "Company") is placed to announce that it has received official approval from the Board of the World Platinum Investment Council
- WPIC* to join the organization as a new member.

Bravo is the first pre-production member to join WPIC, alongside leading PGM producers Anglo American Platinum, Impala Platinum (Implats), Northam Platinum, Sedibelo Platinum and Tharisa (WPIC members).

The WPIC is a global market authority on physical platinum investment, providing investors with objective and reliable platinum market intelligence (https://platinuminvestment.com/). It is headquartered in London with offices in Shanghai and Shenzhen and was instrumental in establishing the annual Shanghai Platinum Week (SPW) for which it continues to be the co-organiser.

"Being the first pre-production platinum group metals (PGM) company to join the prestigious WPIC is a testament to Bravo's achievements with its Luanga PGM+Au+NI Project," said Luis Azevedo, Chairman and CEO of Bravo. "Membership provides Bravo with the opportunity to stay aligned with developments in the PGM sector, gain access to valuable market intelligence, and engage with the global PGM sector, both downstream and upstream. It also presents an opportunity for Bravo to raise awareness of the Luanga Project qualities and its strategic location. I extend my sincere gratitude to the WPIC Board and team for welcoming us as a member, and I look forward to engaging in constructive discussions that will benefit the industry and Bravo alike".

Trevor Raymond, CEO of the World Platinum Investment Council, commented: "We are delighted to welcome Bravo to WPIC as our first pre-production member. This new category of membership will enable more platinum advocates to distribute quality platinum insights to a wider global investment community. This will in turn enhance WPIC's effectiveness in increasing awareness, understanding and ownership of platinum as an investment."

About Bravo Mining Corp.

Bravo is a Canadian and Brazil-based mineral exploration and development company focused on advancing its PGMH-Au+Ni Luanga Project, as well as our Cu-Au exploration opportunities in the world-class Carajás Mineral Province Para State Rezal

Bravo is one of the most active explorers in Carajás. The team, comprising of local and international geologists, has a proven track record of PGM, nickel, and copper discoveries in the region. They have successfully taken a past IOCG greenfield project from discovery to development and production in the Carajás.

The Luanga Project is situated on mature freehold farming land and benefits from being located close to operating mines and a mining-experienced workforce, with excellent access and proximity to existing infrastructure, including road, rail, ports, and hydroelectric grid power. A fully funded +70,000 infill, step out and exploration drilling and trenching program was completed in 2024. Bravo's current Environmental, Social and Governance activities includes planting more than 30,000 high-value trees in and around the project area, while hiring and contracting locally.

ASX Announcement

PODIUM MINERALS

3 February 2025

PODIUM JOINS WORLD PLATINUM INVESTMENT COUNCIL

Podium Minerals Limited (ASX: POD, 'Podium' or 'the Company') is pleased to announce that it has become the first Australian PGM developer to join the World Platinum Investment Council ("WPIC®), as a pre-production member.

HIGHLIGHTS

- . First Australian PGM Company to become a member of the World Platinum Investment Council.
- WPIC was founded by the leading PGM miners and producers, and is a global authority on
 platinum market intelligence and physical platinum investment.
- WPIC members include Anglo American Platinum, Impala Platinum (Implats), Northam Platinum,
 Sedibelo Platinum and Tharisa as well as Bravo Mining.
- Membership will provide Podium with access to WPIC's extensive research and comprehensive market intelligence, and expand opportunities for engagement across the global PGM sector.
- . WPIC is headquartered in London, with offices in Shanghai and Shenzhen.

Executive Chairman, Rod Baxter, commented:

"I am excited that Podium is the first Australian PGM developer to join the World Platinum Investment Council. Becoming a pre-production member of the WPIC delivers one of the key Corporate building blocks which underpin our strategy to develop Parks Reef PGM Project ("Parks Reef Project" or "Pariset").

Our membership of the WPIC will provide quality global market intelligence and valuable insights to inform our strategy and our decision making, and will position Podium to stay at the forefront of PGM sector developments. Furthermore, our membership of this highly regarded organisation will unlock opportunities for engagement with the global PGM sector, and will provide avenues to promote Podium, our Parks Reef Project, and Western Australia as a future supplier of PGMs.

We look forward to working with the WPIC, and engaging in insightful industry discussions."

Trevor Raymond, CEO of the World Platinum Investment Council, commented:

"We are delighted to welcome Podium as the first Australian pre-production member of the WPIC. WPIC's new pre-production membership category will enable more platinum advocates to distribute quality platinum insights to a wider global community. This will in turn enhance WPIC's effectiveness in increasing awareness, understanding and ownership of platinum as an investment."

This announcement has been approved for release by the Board of Podium Minerals Ltd

For further information, please contact:

Rod Baxter Executive Chairman info@podiumminerals.com +81 8 9218 8878 Justine Lea Chief Financial Officer info@podiumminerals.com +61 8 9218 8878

podiumminerals.com

Source: Bloomberg, WPIC research

AGENDA: PLATINUM QUARTERLY: Q4 2024, FINAL 2024 ESTIMATES AND UPDATED 2025 OUTLOOK



1. Introduction

Trevor Raymond

2. Platinum Quarterly, fundamentals review Edward Sterck

3. Current thematics

Edward Sterck

4. Questions

Trevor Raymond, CEO Edward Sterck, Director of Research



LATEST WPIC RESEARCH



Platinum Quarterly (<u>link</u>)

Platinum Essentials (<u>link</u>):

- WPIC's platinum price attribution model examines the factors that establish platinum value in the market.
- 16 Jan'25, Jewellery market growth returns as China's decline halts, strong ex-China growth continues and platinum's discount to gold results in price parity with white gold.
- 6 Feb'25, Five-year supply/demand outlook;
 platinum deficits persist, palladium's are
 deeper and last longer.

Platinum Perspectives (<u>link</u>):

 US policies and the PGM markets Parts 1, 2 and 3. Trade tariffs, economic policies, and rolling back environmental commitments.



