



# Mid-Year – Chart Pack & Outlook Summary MKS PAMP GROUP

New York, NY – July 2023

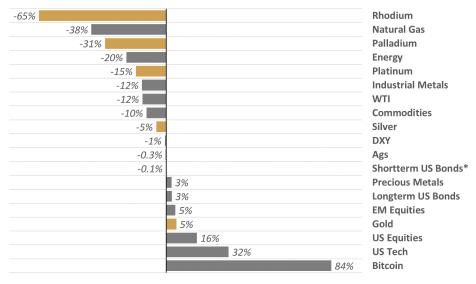
### MKS PAMP 2023 Forecast Summary & Update

	MKS PAMP forecasts			
Actual 1H'23	Original forecast	Banking Crisis	Mid-Year Update	Mid-Year Update
YTD average	(Jan '23)	forecast revisions (March '23)	(average forecast)	(high – low range)
\$1933.50/oz	\$1880/oz	\$1930/oz	\$1930/oz (unchanged)	\$1850 - \$2100/oz
\$23.40/oz	\$22.50/oz	\$24/oz	\$24/oz (unchanged)	\$21.50 - \$27/oz
\$1011.50/oz	\$1100/oz	\$1100/oz	\$1050/oz (downgrade)	\$900 - \$1150/oz
\$1508.30/oz	\$1800/oz	\$1600/oz	\$1400/oz (downgrade)	\$1200 - \$1600/oz
\$9000/oz	\$13,000/oz	\$11,500/oz	\$8000/oz (downgrade)	\$3000 - \$12,000/oz
	\$1933.50/oz \$1933.50/oz \$23.40/oz \$1011.50/oz \$1508.30/oz	YTD average (Jan '23)  \$1933.50/oz \$1880/oz  \$23.40/oz \$22.50/oz  \$1011.50/oz \$1100/oz  \$1508.30/oz \$1800/oz	Actual 1H'23       Original forecast (Jan '23)       Banking Crisis forecast revisions (March '23)         \$1933.50/oz       \$1880/oz       \$1930/oz         \$23.40/oz       \$22.50/oz       \$24/oz         \$1011.50/oz       \$1100/oz       \$1600/oz         \$1508.30/oz       \$1800/oz       \$1600/oz	Actual 1H'23   Original forecast   Banking   Crisis   forecast revisions   (average forecast)



#### US Tech, Bitcoin & US Equities Outperform As Commodities Flounder In 1H'23

#### 1H 2023 Performances

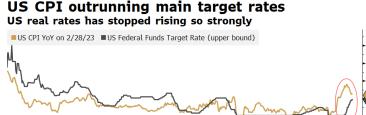


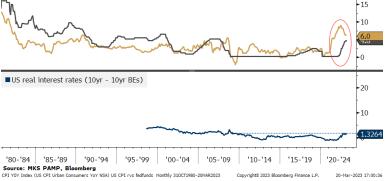
- The market overreached for classic safehavens following the banking crisis in March 2023.
- But US & Global policy bailouts and liquidity injections, staved off fear allowing for a relentless Tech-driven US stock market rally to close out 1H'23.
- Still, we expect a bumpy 2H'23 as monetary policy begins to bite.

YTD Performances as of June 30 2023 MKS PAMP, Bloomberg



#### Nearing The End Of An Aggressive Fed Tightening Cycle





- The list of 'broken markets' or casualties to an aggressive Fed hiking cycle the past year include
  1) US Banks' Silvergate Bank, SVB & Signature Bank,
  2) Credit Suisse, 3) the UK gilt market, 4) Crypto Exchanges & Crypto, 10) the 60/40 Portfolio.
- Overall US data is resilient but vacancies, bankruptcies & delinquencies are on the rise, there are cracks in CRE, availability of credit is a concern & data remains volatile.
- The US job market remains strong and until the Fed "breaks" the labor market (rising probability), or inflation comes down to target, the threat of future Fed hikes is a concern for bullish precious outlook.



#### Shifting from a Low-Inflation Regime To A Higher-Inflation Regime

- Its supply dynamics; Ukraine war, ESG, deglobalization, energy policy.
- The Fed will have to choose between higher inflation OR a recession/financial instability.
- Gold is a bet on the Feds ability to control (global) inflation or avoid a recession.

#### **EM vs DM inflation**

developed world is seeing emerging world style inflation

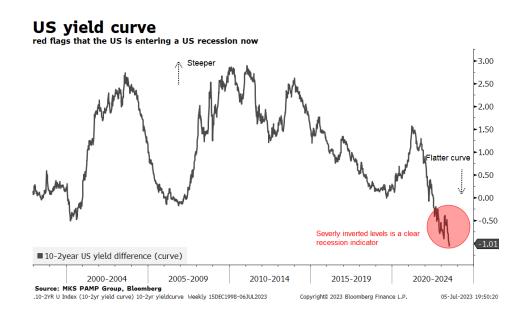


.EMINFLAT U Index (aver CPI YoY for MEm countries) G10 EM ave infla rate Monthly 20DEC2005-06JUL2023 Copyright® 2023 Bloomberg Finance L.P. 05-Jul-2023 19:48:47



#### Higher Inflation Floors OR A Recession & Financial Instability

- The Fed will have to choose between higher inflation OR a recession (job losses) & financial instability; either outcome is bullish for gold.
- However, a US softer landing is more realistic despite recessionary indicators – a severely inverted yield curve – at extreme levels.





#### The Feds Balance Sheet Is Back To Contracting

### The Feds & Global CB Bal Sheets (in US\$), vs Gold the drawdown of global liquidity, now continuing

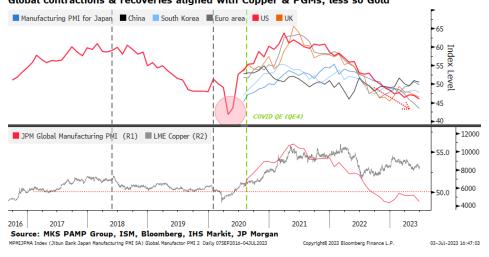


- The expansion of the Feds Balance Sheet was short-lived following the Banking Crisis.
- Quantitative Tightening & 2 more Fed hikes in 2023 is restrictive.
- Liquidity-on hedges from Gold to Silver should continue to under perform during ongoing QT, if macro fear remains contained.
- Gold EFT holdings proxy very well with global liquidity gauges.



#### Global Soft PMIs Explain Some, Not All Price Weakness in Silver & PGMs

#### Global Manufacturing: strong recovery continues to slow Global contractions & recoveries aligned with Copper & PGMs, less so Gold



- The Global Manufacturing PMI Index has remained in contractionary territory since Q3 2022.
- Gold & Silver require weaker US data (weaker jobs or CPI to solidify a Fed pause) to rally, while PGMs require stronger China data (a recovery in manufacturing & industrial activity) to reprice higher.



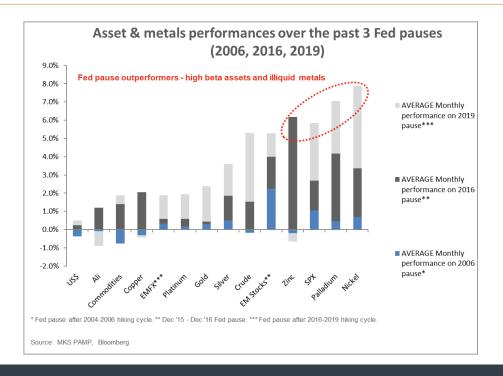
#### Interest Rates At Highest In 15 Years Continues To Drive Destocking Of Physical

- Higher for longer rates Developed Market interest rates will continue driving the global physical destocking cycle across most industrial commodities, although this is nearer the end.
- It'll also reignite increased macro volatility which has been uncharacteristically tame recently.

#### (Copper) Stocks vs Fed Funds Copper stocks bottom when Fed funds top ►7.00 L<sub>0</sub> ■ Fed Funds Rate (R1) ■ GLOBAL COPPER STOCKS (R2) -2.00 -1.00 -1.2M -0.00 2000-2004 2005-2009 2010-2014 2015-2019 2020-2024 Source: Bloomberg, Scotiabank Commodities Strategy FDTR Index (Federal Funds Target Rate - Upper Bound) Copper stocks fed funds Monthly 30AUG1999-06JUL2023 Copyright@ 2023 Bloomberg Finance L.P. 05-Jul-2023 19:57:52



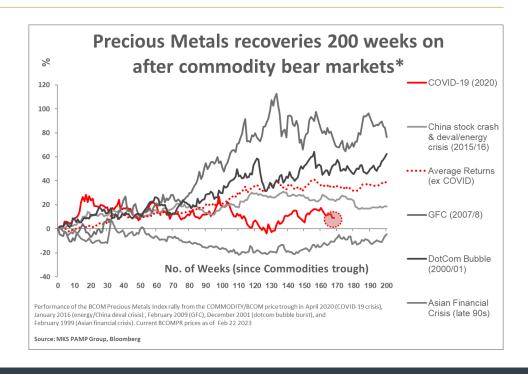
#### Past Fed Pauses: A Greenlight For Higher Beta Assets





## Precious Metals to Remain In Vogue Into The Next Decade & Is Still Underperforming Past Bear Market Recoveries

- Currently, this Precious Metals (BCOM PM Index) upcycle is only +9% above its COVID-19 trough.
- That is still well beneath the historical average of +35% (typically seen 170 weeks in past bear market commodity recoveries).





#### The Big Regime Shift: Trends & Themes Then (2010s) vs Now (2020s)

Lower uncoordinated growth

Fiscal Excess

Isolationism

**Dictatorships** 

War

#### The Big Regime Shift: 2010s vs 2020s

2010s

2020s Higher rates Lower Rates Value Growth Deflation Inflation

Higher coordinated growth

**Monetary Excess** Globalization Democracies

Peace

Commodities Tech Gold/Bitcoin Fiat Currencies Dividends Buybacks

Visible (Policy) hand Invisible Hand

Net Zero Climate Change Anti-ESG ESG **Bailouts** Tax cuts

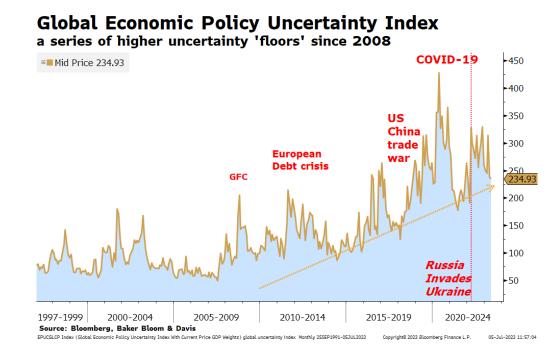
With embedded, supply-driven inflation & more uncoordinated but slower global growth trajectories, Precious Metals should remain structurally in favor this decade.

Source: BofA Global Investment Strategy, TDD



#### Macro Uncertainties To Monitor In 2023 – What Else Does The Fed Break??

- Another bank failure
- Inflation suddenly accelerates from their higher bases
- US labor market cracks
- Global growth or inflation falls faster than expected
- Government policy failure (e.g.: energy)
- A Central Bank policy mistake (e.g.: global hard landing)
- A commodities crisis given weaponization
- A spate of debt crises / Fiscal spiral
- A liquidity crisis or credit event
- China (slowdown, regulatory reform, debt issues)
- Another major spike in interest rates and/or US\$
- Escalating geopolitical, trade tensions or terrorist attack
- Accelerated deglobalization
- Significant corporate tax policy change
- Social upheaval / protests
- Official currency intervention
- Cybersecurity failure / hack
- Extreme weather event
- Asset bubbles burst





## Gold Chart Pack



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### The Strong ~\$200+ Gold Rally in Q1'23 On Fed Cut Bets Quickly Unwound

### **Gold Quarterly Chart**Q2'23 quarterly close below uptrend but still higher lows

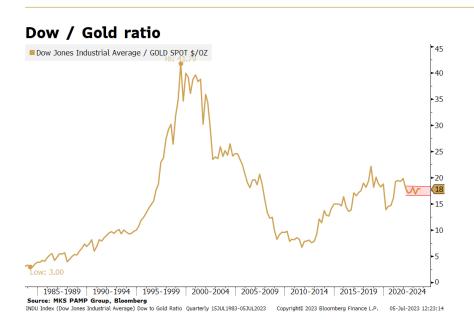


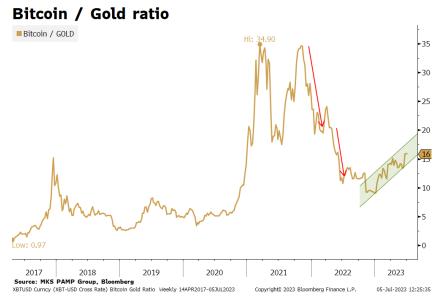
#### Gold: establishing a new bulltrend the steep bullish trend from \$1800 moderating in the short-term





#### Gold Held In Vs US Equities But Continues To Underperform Bitcoin in 2023







#### Gold Investors Remains Sidelined Or Net Sellers on Price Rallies

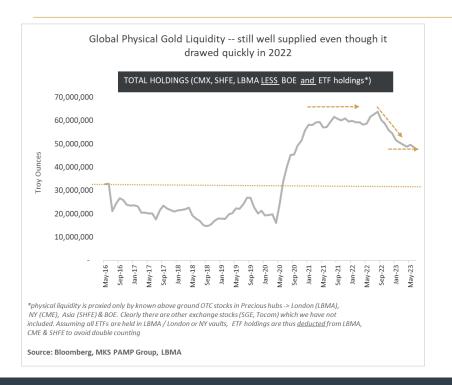
#### Known Gold investor flows: ETF & COT ETFs & COT continue to bleed

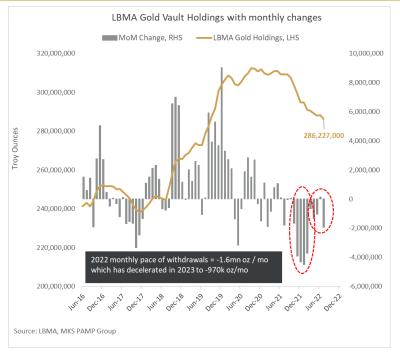


- Gold investors only bought 565K oz in 1H'23.
- That's the 6<sup>th</sup> slowest half year accumulation of Gold seen the past 10years.
- Most of the Banking Crisis induced ETF + COT inflows have now been unwound.
- Total (ETF + COT) Positioning remains rather neutral at 100mn oz (92mn oz ETF + 7mn oz COT) vs post-COVID ranges of 90-120mn oz.



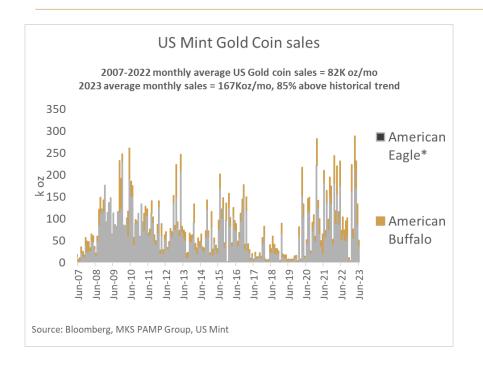
#### Large Known Gold Stocks Drew Quickly In '22 But The Pace Has Decelerated in '23

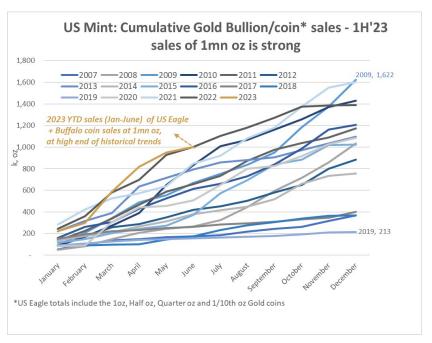






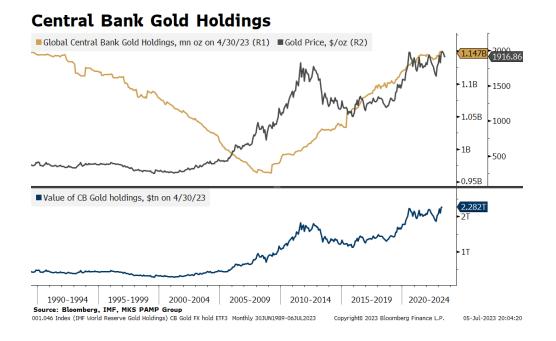
#### Gold Retail Demand At High End of Historical Trends







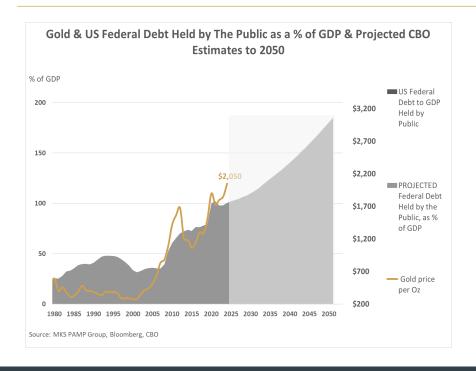
#### Central Bank Gold: Still Aggressively Adding On Price Dips



- Central Banks, especially Emerging Markets, continue their dedollarization & sanction risk policies with Goldaccumulation plans in 1H'23.
- Still, the pace is expected to remain robust but not near the record-breaking pace seen in 2022.
- The value of ALL CB Gold holdings now stand at \$2.3tn, near record, & basically the size of AAPL's Market Cap.



## Dedollarization & Global Debt Interplay Driving A Reconsideration of The Global Monetary System



- Western sanctions drove a reallocation of CB FX reserves away from US\$.
- The rise of global & US debt, Western World inflation & the role of fiat currencies in the monetary system continues to being reconsidered.
- Dedollarization a bigger tailwind for smaller asset Classes vs a US\$ headwind.
- Model implied Gold price is \$3500 if/when US gov debt hits 200% of GDP by 2050.



#### Golds Key Up & Downside Inflection Points

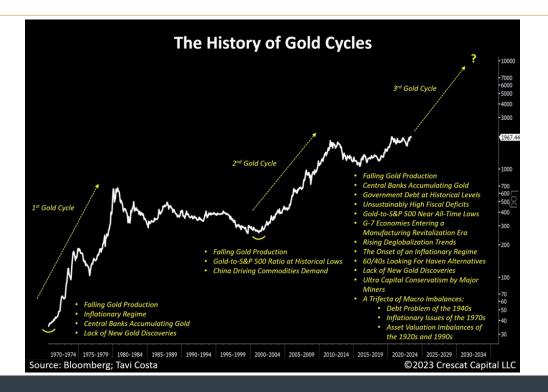
- New price regime \$1800-\$2100/oz to hold but less bullish trajectory on a more restrictive Fed.
- Gold Triple Top / ATHs To Be Reached in 2023 as US monetary policy plays catch-up & US data misses.
- Bull case = \$2500 long-term target (not average).

Key event or technical level	Gold Level
COVID emerges in China	\$ 1,560
Start of current bull trend in Nov '22 (end of 75bp Fed hikes)	\$ 1,600
"Transitory" dropped wrt inflation (Dec '21 FOMC)	\$ 1,750
If 2011, 2020 & 2022 blowoff tops repeated (-13% on ave in 8days)	\$ 1,780
New physical floor (up from \$1600) + China starts releasing Gold reserve state	\$ 1,800
Newmont's 1st bid for Newcrest	\$ 1,850
SVB / start of US banking crisis	\$ 1,850
200 DMA	\$ 1,860
Model-implied price with real rates at -1% (pre-hike) levels**	\$ 1,900
Russia invades Ukraine	\$ 1,900
US sanctions the Russian CB	\$ 1,920
1st Fed hike (since 2018) in March '22 , +25bp	\$ 1,930
Recent series of technical lows / new resistance	\$ 1,950
2023 high  The markets' view of	\$ 2,063
recent war nigh (iviarch 2022)	\$ 2,070
All Time High (COVID / 2020 High) Golds triple top	\$ 2,075
Big No (large OI in Aug option strike)	\$ 2,100
Gold hits bull market status in 2023	\$ 2,200
Large Bullish (call) bets in GCZ3 contract (~17K contracts)	\$ 2,500
Our L/T bull case & upside target (not base case)	\$ 2,500
Psychological big number	\$ 3,000
If current bull run doubles (as it did post 2008)	\$ 3,200
Model-implied price with US Gov debt at 200% by 2050	\$ 3,500
If XAUUSD mimics XAUJPY breakup/out (+75% from past ceilings)	\$ 3,600
Potential Gold Trajectory in 2027 after a typical slow Fed hiking cycle	\$ 4,100
Key technical levels	

Source: MKS PAMP



#### Gold Cycles: Current Prices Holding In For the 3<sup>rd</sup> Secular Cycle





## 3 Silver Chart Pack

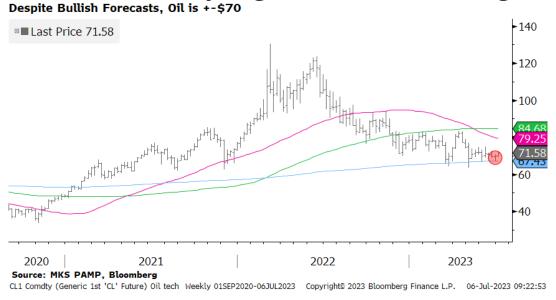


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### Oil Repricing Lower On Recession Fears Explains Why the White Metals Are Lagging

#### WTI Prices Collapsing to Low End Of Range





#### Oil Repricing Lower On Recession Fears Explains Why the White Metals Are Lagging

Once the panic/fear trade (higher Gold, crypto & US treasuries) subsided in 2Q'23, the liquidity trades (Silver, PGMs, Oil & Copper) still couldn't find their sea legs given lackluster China demand & recession fears.

### It WAS All About Gold vs the White Metals strong uptrend GC/SI channel in 2023 reversed; PGM underperformance





### Silver Found Strong Support at ~\$20/oz & \$22/oz; Upside Hinges on Weaker US\$

- Strong support lurks below \$22/oz stemming from a mix of industrial & retail participation, which is expected to remain resilient into 2H'23 despite growing recession risks.
- Industrial demand is set to hit another record high; that, together with supply risks will drive another fundamental deficit of over 150mn oz.

### Silver Price & Technicals below the 200DMA and \$20/oz where physical buying emerges





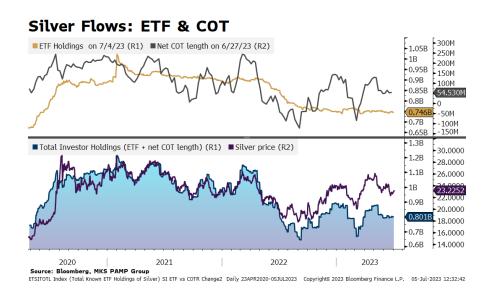
#### Silver Retail Demand At Low End of Historical Trends Due To Supply Constraints

- YTD 1H'23 Silver Eagle coin sales are ~9.5mn oz, 40% below the 15yr average of ~15mn oz at the half year mark & below 2019-2022 1H trends.
- Supply constraints & production limitations by the US mint has also led to higher premiums.
- Overall retail demand for silver products remains robust and should continue into the US election cycle, albeit at slower pace vs the phenomenal year in 2022.





#### Silver Investors Were Net Sellers in 1H'23 & Remain Rather Agnostic

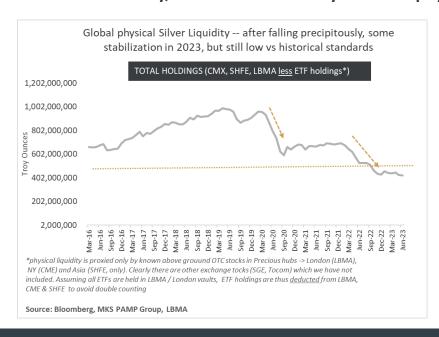


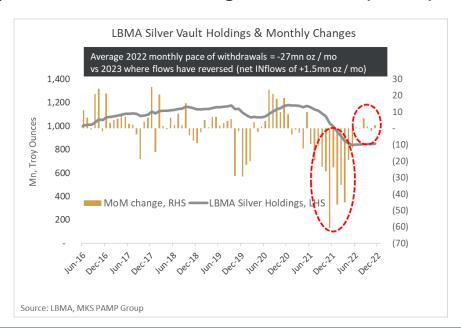
- Silver investors were net sellers with outflows of ~90mn oz in 1H'23.
- That's the 4<sup>th</sup> fastest half year destocking of Silver seen the past 10years.
- Fast Money (COT) at one point turned net bearish.
- Total (ETF + COT) Positioning at 800mn oz vs post-COVID ranges of 650mn - 1.2bn oz, is becoming underweight.



#### Large Known Silver Stocks Drew Quickly In '22 But The Pace Has Decelerated in '23

Fundamentally, Silver has less readily available physical stocks in known exchange & LBMA vaults (vs Gold).







## PGM Chart Pack



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#### Platinum Prices Remain In Sideways Trend below \$1100/oz



 While market consensus centers around upcoming deficits, 1) ongoing recession fears, 2)
 Above Ground Stocks & physical destocking into higher rates, and 3) the lack of persistent investment inflows has kept prices from rerating strongly above \$1100/oz.



#### Palladium Prices Have Erased Russia/Sanction Risk & More

Palladium has remained in a persistent (technically almost managed) downtrend channel for a year now, coincidently or not aligned with the combination of the Fed kicking off its hiking cycle and global commodities war/fear premiums being unwound.

### Palladium Prices managed lower after the war blowoff top near \$3500/oz





#### Rhodium Falls To Pre-COVID Levels; Other Minor PGMs Hold Up

Rhodium has phenomenally crashed to below \$4000/oz in Q2'23 as Chinese fiberglass related selling (and substitution), physical destocking, and a slower than expected China reopening, amidst a consumer 'strike', took hold.

#### **Minor PGM Prices** Capitulation in Rhodium in stark contrast to OPGMs

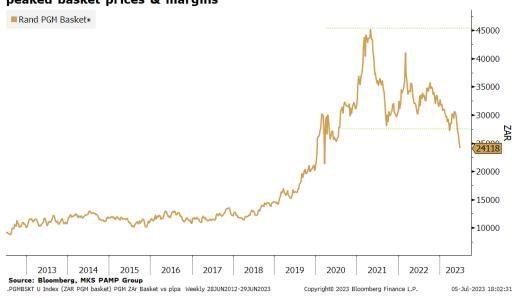


JMATRHOD Index (Johnson Matthey Rhodium Spot Price) Rhodium & minor PGMs Daily 05APR2018-05JUL2023 Copyright® 2023 Bloomberg Finance L.P. 05-Jul-2023 18:07:51



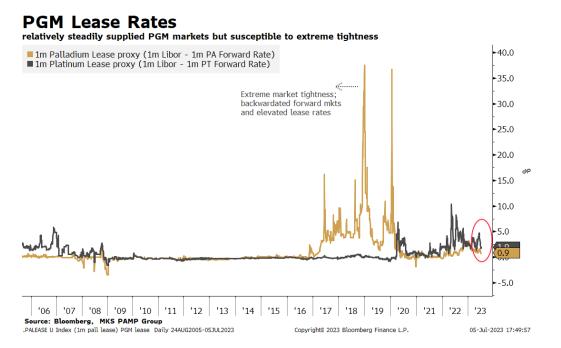
#### Statement Repricing In the Producers Rand PGM Basket Has Reversed Heavily

### PGM ZAR prices: heavy losses in 2023 peaked basket prices & margins



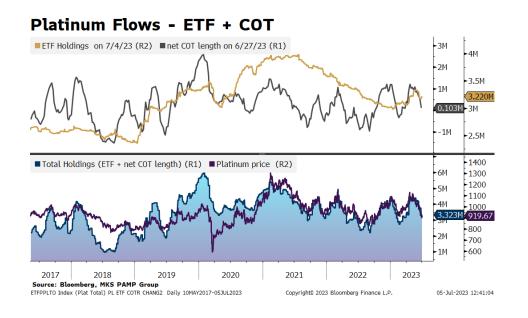


#### Physical Markets → Falling Lease Rates Signal Ongoing Destocking





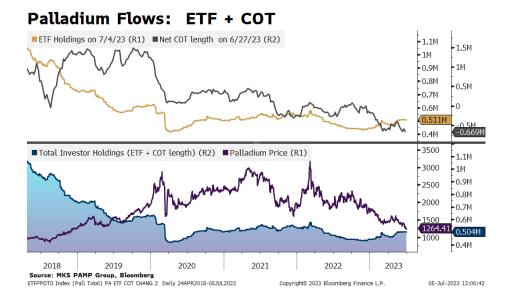
#### Platinum Investor Flows Were Very Volatile In 1H'23



- Platinum investors were net sellers in 1H'23 with outflows of a chunky 610k oz.
- ETFs saw volatile flows with in/outflows swinging ~1.5mn oz within a couple weeks.
- Fast Money (COT) began the year net bearish but have added to positioning.
- Total (ETF + COT) positioning at 3.3mn oz is moving into the low-end of the post-COVID range (2.2mn - 5.3mn oz) but isn't quite underweight yet.



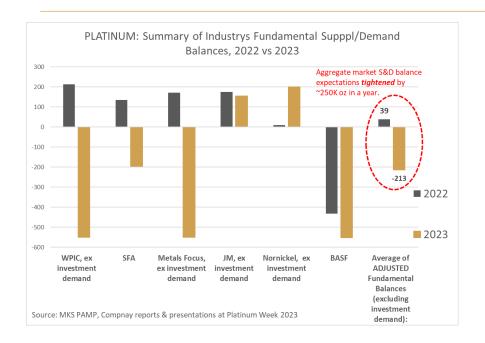
#### Palladium COT Flows Turned Aggressively Bearish In 1H'23 vs ETF Inflows

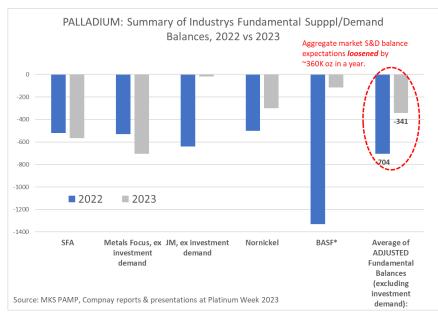


- Palladium investors were net buyers in 1H'23 of a 58k oz.
- But that hides the super bearish bets where net COT positioning fell to a record low of -670k oz, vs 64k oz of ETF inflows.
- Total (ETF + COT) positioning at 500k oz is still somewhat neutral vs post-COVID positioning range of 430-560k oz.



#### Platinum & Palladium 2022 vs 2023 Supply/Demand Balance Expectations











Thank you