

Gold Outlook 2022

Despite potential rates hikes, real rates remain low



About the World Gold Council

The World Gold Council is the market development organisation for the gold industry. Our purpose is to stimulate and sustain demand for gold, provide industry leadership, and be the global authority on the gold market.

We develop gold-backed solutions, services and products, based on authoritative market insight and we work with a range of partners to put our ideas into action. As a result, we create structural shifts in demand for gold across key market sectors. We provide insights into the international gold markets, helping people to understand the wealth preservation qualities of gold and its role in meeting the social and environmental needs of society.

Based in the UK, with operations in India, the Far East and the US, the World Gold Council is an association whose members comprise the world's leading gold mining companies.

For more information

Research and Strategy

Adam Perlaky adam.perlaky@gold.org +1 212 317 3824

Bharat lyer bharat.iyer@gold.org +1 212 317 3823

Johan Palmberg johan.palmberg@gold.org +44 20 7826 4786

Krishan Gopaul krishan.gopaul@gold.org +44 20 7826 4704

Juan Carlos Artigas

Global Head of Research juancarlos.artigas@gold.org +1 212 317 3826 Louise Street louise.street@gold.org +44 20 7826 4765

Mukesh Kumar mukesh.kumar@gold.org +91 22 317 3826

Ray Jia ray.jia@gold.org +86 21 2226 1107

John Reade

Chief Market Strategist john.reade@gold.org +44 20 7826 4760

Contents

Gold Outlook 2022	2
Higher rates in 2021 outweighed inflation risks	2
Looking ahead, rising rates pose risks but the devil will hin the details	be 3
Opinion is divided, but inflation may linger	4
Amid opposing forces, real rates will likely remain low	5
Investors are ready to turn the page on COVID, but mar pullbacks may persist	ket 5
Gold's performance is not only linked to investment	6
Gold's behaviour will depend on which factors tip the so	cale 6

Gold Outlook 2022

Gold may face similar dynamics in 2022 to those of last year, as competing forces support and curtail its performance. Near term, the gold price will likely react to real rates in response to the speed at which global central banks tighten monetary policy and their effectiveness in controlling inflation.

Yet, in our view:

- while rate hikes can create headwinds for gold, history shows their effect may be limited (p. 3)
- at the same time, elevated inflation and market pullbacks will likely sustain demand for gold as a hedge (pp. 4–5)
- jewellery and central bank gold demand may provide additional longer-term support (p. 6).

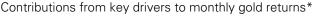
Higher rates in 2021 outweighed inflation risks

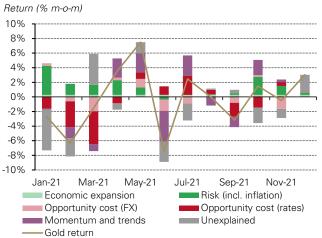
Gold finished the year approximately 4% lower, closing at US\$1,806/oz.¹ The <u>gold price</u> rallied into year-end on the heels of the rapidly spreading Omicron variant, likely prompting flight-to-quality flows, but it was not enough to offset H1 weakness.

Early in 2021, as newly developed vaccines were rolled out, investor optimism likely fuelled a reduction in portfolio hedges. This negatively impacted gold's performance and resulted in <u>gold ETF outflows</u>. The rest of the year was a tug of war between competing forces. Uncertainty surrounding new variants, combined with increasing risks of persistently high inflation and a rebound in gold consumer demand, pushed gold forward. Conversely, rising interest rates and a stronger US dollar continued to create headwinds. However, dollar strength led to positive gold returns in some local currency terms, such as the euro and yen among others (**Table 1**, p.3).

Our gold return attribution model corroborates this. Rising opportunity costs were one of the most important contributors to gold's negative performance in Q1, and intermittently in H2, while rising risks – especially those linked to elevated inflation – pushed gold higher towards the end of the year (**Chart 1**).

Chart 1: Rates and inflation were two of the most important contributors to gold's performance in 2021





*As of 31 December 2021. Our short-term model is a multiple regression model of monthly gold price returns (based on XAU), which we group into the four key thematic driver categories of gold's performance: economic expansion, market risk, opportunity cost, and momentum. These themes capture motives behind gold demand; most saliently, investment demand, which is considered the marginal driver of gold price returns in the short run. 'Unexplained' represents the percentage change in the gold price that is not explained by factors currently included in the model. Results shown here are based on analysis covering an estimation period from February 2007 to December 2021. On Goldhub, see: <u>Short-term gold price drivers.</u>

Source: Bloomberg, ICE Benchmark Administration, World Gold Council

proxy for spot gold price – gold finished slightly higher and up 3% in December.

¹ Based on the LBMA Gold Price PM as of 30 December 2021. It should be noted that while a closing price for the LBMA Gold Price PM is not available for 31 December, gold rallied that day. Based on XAU – a commonly used

Table 1: Gold's price performance was mixed across currencies

Gold price and annual return in key currencies*

	USD (oz)	EUR (oz)	JPY (g)	GBP (oz)	CAD (oz)	CHF (oz)	INR (10g)	RMB (g)	TRY (oz)	RUB (g)	ZAR (g)	AUD (oz)
2021 return	-4.3%	3.3%	6.7%	-3.1%	-4.0%	-1.1%	-2.6%	-6.7%	67.7%	-3.4%	4.1%	1.8%
Year-end price	1,806	1,594	6,686	1,338	2,309	1,650	43,210	370.2	23,522	4,335	928	2,490
Annual average	1,799	1,521	6,350	1,308	2,256	1,644	42,757	373.1	15,999	4,263	855	2,396
Annual high	1,943	1,649	6,868	1,431	2,476	1,734	45,651	403.8	32,423	4,627	950	2,566
Annual low	1,684	1,417	5,885	1,221	2,125	1,570	39,730	353.2	12,396	3,996	801	2,194

*As of 30 December 2021. Based on the LBMA Gold Price PM in local currencies: US dollar (USD), euro (EUR), Japanese yen (JPY), pound sterling (GBP), Canadian dollar (CAD), Swiss franc (CHF), Indian rupee (INR), Chinese yuan (RMB), Turkish lira (TRY), Russian rouble (RUB), South African rand (ZAR), and Australian dollar (AUD).

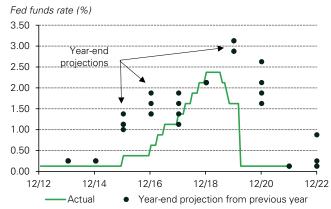
Source: Bloomberg, ICE Benchmark Administration, World Gold Council

Looking ahead, rising rates pose risks but the devil will be in the details

As we enter 2022, the US Federal Reserve is signalling a more hawkish stance. Its projections indicate that the Fed expects to hike approximately three times² this year <u>at a quicker pace than previously expected</u>, while aiming to reduce the size of its balance sheet.

An analysis of previous tightening cycles, however, shows that the Fed has tended not to tighten monetary policy as aggressively as members of the committee had initially expected.

Chart 2: The Fed signalled a more hawkish stance in the previous tightening cycle than what was delivered



Projected midpoint Fed funds target rate versus actual*

*As of 31 December 2021. Actual midpoint Fed funds target rate compared to Federal Open Market Committee (FOMC) member projections from the previous year. There may be up to four different end-of year projections if the FOMC members changed their expectations over the course of the year. Source: Bloomberg, US Federal Reserve, World Gold Council

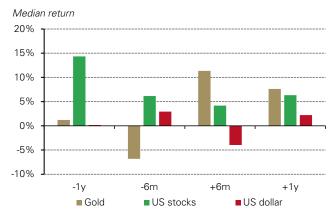
Dot-plot projections suggest that year-ahead Fed expectations have significantly exceeded actual target rates (**Chart 2**).

More importantly, though, financial market expectations of future monetary policy actions – expressed through bond yields – have historically been a key influence on gold price performance.

Consequently, gold has historically underperformed in the months leading up to a Fed tightening cycle, only to significantly outperform in the months following the first rate hike (**Chart 3**). Gold may have partly been aided by the US dollar, which exhibited the opposite pattern. Finally, US equities had their strongest performance ahead of a tightening cycle but delivered softer returns thereafter.

Chart 3: Gold has typically outperformed following the first rate hike of a Fed tightening cycle

Median return of gold, US stocks, and the US dollar over the past four Fed tightening cycles*



*Median returns based on the past four tightening cycles starting in February 1994, June 1999, June 2004, and December 2015. US dollar performance based on the Fed trade-weighted dollar index prior to 1997 and the DXY index thereafter, due to data availability.

Source: Bloomberg, ICE Benchmark Administration, World Gold Council

2 <u>Dot-plot projections from the December 2021 meeting</u> indicate a range between one and four hikes with a median of three.

Finally, while there's a lot of emphasis on the relationship with US interest rates, gold is a global market. And not all central banks may move as quickly as the Fed.

For example, the European Central Bank has stated that <u>it</u> <u>is "very unlikely" that interest rates will rise in 2022</u> despite recent record inflation prints. And while the Bank of England increased interest rates in December, its <u>Policy</u> <u>Committee seemed to indicate only modest future rises</u>.

The Reserve Bank of India has also signalled that it will maintain its accommodative monetary policy stance to revive and sustain economic recovery and mitigate the impact of COVID. And the <u>People's Bank of China cut one of its policy rates by 5bps</u> in December shortly after lowering the required commercial banks reserve ratio to cushion the country's economic slowdown.

While diverging monetary policies could result in a stronger dollar, steady or decreasing rates should support regional gold investment demand.

Opinion is divided, but inflation may linger

Many central banks initially played down inflation concerns, and while some, such as the Fed, have acknowledged upside risks, there's an underlying expectation that inflation will dissipate.³ Investors seem to be less sure, but opinions vary.⁴ Anecdotally, these views were echoed in a <u>LinkedIn</u> <u>poll we conducted last December</u>. While the vast majority expected inflation to remain high, more than one in four respondents thought it would cool down.

We believe there are multiple reasons why inflation will remain high, partly stemming from the unprecedented monetary and fiscal policies put in place to alleviate the effects of the COVID-19 pandemic. In particular:

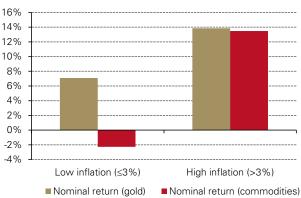
- lingering supply-chain disruptions from the initial COVID wave and subsequent dislocations as new variants continue to emerge⁵
- tight labour markets, which, combined with COVID fatigue, have increased the number of people voluntarily looking for new, better-paid opportunities
- higher average savings from 2020, which have contributed to lofty valuations in various financial markets
- high commodity prices.

Gold has historically <u>performed well amid high inflation</u>. In years when inflation was higher than 3%, gold's price increased 14% on average (**Chart 4**).⁶ Further, in the long run, gold has outpaced US inflation and moved closer in pace to money supply, which has significantly increased in recent years (**Chart 5**).

Chart 4: Gold historically performs well in periods of high inflation

Gold and commodity nominal returns in US dollars as a function of annual inflation*

Avg. annual return



*As of 31 December 2021. Based on y-o-y changes in US dollars for 'gold': LBMA Gold Price PM, 'commodities': Bloomberg Commodity Index and 'inflation': US CPI since January 1971.

Source: Bloomberg, ICE Benchmark Administration, World Gold Council

Chart 5: Gold has kept up with money supply growth Gold (US\$/oz), US M2, US CPI indexed: Q1 1971 = 100*



*As of 31 December 2021. Based on US M2 cumulative growth, US CPI, and LBMA Gold Price PM USD.

Source: Bloomberg, ICE Benchmark Administration, Oxford Economics, World Gold Council

- 3 A divide in responses to the inflation threat, FT, December 2021.
- 4 The Year of Inflation Infamy, Paul Krugman, NYT, December 2021;. Who Is Right about Inflation? Chicago Booth Review, August 2021; On inflation, it's past time for team 'transitory' to stand down, Larry Summers, Washington Post, November 2021.
- 5 <u>Omicron, Supply-Chain Troubles to Slow Growth, World Bank Says, WSJ.</u> 11 Jan 2022.
- 6 Based on US CPI y-o-y changes from 1971 through 2021. There have been 25 observations each of greater than and less than 3% inflation.

Amid opposing forces, real rates will likely remain low

Despite potential rate hikes by some central banks, nominal rates will remain low from a historical perspective. Even more so, elevated inflation will likely keep real rates depressed (**Chart 6**). This is important for gold since gold's short- and medium-term performance tends to often respond to *real rates*, which combine two important drivers of gold performance: "opportunity cost" and "risk and uncertainty".

Further, low interest rates – both nominal and real – are shifting investment portfolios more towards risk-on assets. And this, in turn, as we discuss in one of our recent reports,⁷ <u>increases the need for a high-quality liquid asset such as gold</u>.

Chart 6: Both nominal and real interest rates are at or near historically low levels



US 10-year Treasury nominal and real yield*

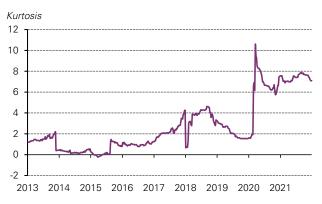
*As of 31 December 2021. Real yield computed using US 10-year Treasury nominal yield minus seasonally adjusted US CPI y-o-y change. Source: Bloomberg, US Bureau of Labor Statistics, World Gold Council

Investors are ready to turn the page on COVID, but market pullbacks may persist

It's been two years since the start of the pandemic and the world seems ready to move on: global stock markets have strongly rebounded from their 2020 lows, albeit at different rates. But "tail events" have also been on the rise (**Chart** 7).

Chart 7: Pullbacks have become more frequent



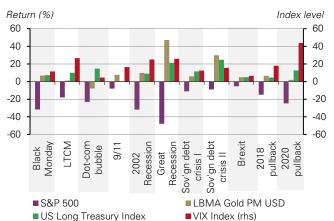


*As of 31 December 2021. Two-year rolling kurtosis based on weekly returns. Kurtosis, the standardised fourth central moment of a distribution, is a measure that indicates how often events in the tails of the distribution occur. Source: Bloomberg, World Gold Council

Pullbacks are likely to continue in the face of the seemingly endless stream of new variants, as well as simmering geopolitical tensions and overall buoyant equity valuations fuelled by a long-lasting ultra-low-rate environment. In this context, <u>gold can be a valuable risk management tool in an</u> <u>investor's arsenal</u>. Gold has a proven historical record of mitigating the negative impact of equity market pullbacks in periods of systemic risk (**Chart 8**).

Chart 8: Gold tends to perform well in periods of significant market pullbacks

Performance of gold, US Treasuries, and S&P 500 during VIX spikes*



*As of 31 December 2021. Dates used: Black Monday: 9/1987–11/1987; LTCM: 8/1998; Dot-com: 3/2000–3/2001; September 11: 9/2001; 2002 recession: 3/2002–7/2002; Great recession:10/2007–2/2009; Sovereign debt crisis I: 1/2010–6/2010; Sovereign debt crisis II: 2/2011–10/2011; 2018 Pullback: 10/2018–12/2018; 2020 pullback: 2/2020–3/2020. The VIX is available only after January 1990. For prior events we used realised 30-day S&P 500 volatility. Source: Bloomberg, ICE benchmark Administration, World Gold Council

7 Increased appetite for less liquid investments strengthens the case for gold, December 2021.

Gold's performance is not only linked to investment

It is often assumed that gold's price behaviour is linked to investment demand, especially from financial instruments such as gold ETFs, over-the-counter contracts, or exchange-traded derivatives. This is only partly true. Shorter-term and more significant price movements do tend to respond to variables associated with these types of gold investments; for example, interest rates, inflation, exchange rates, and, more generally, flight-to-quality flows.

However, <u>our analysis shows that gold's performance is</u> <u>also linked to other components of demand</u>, such as jewellery, technology, and central banks. While these do not typically result in the large price movements associated with investment, they help underpin gold price performance by either providing support, or creating headwinds.

We believe that gold can still receive positive – if modest – support in 2022 from key jewellery markets, such as India. However, there's a chance that further Chinese economic slowdown may limit the contribution from local gold jewellery demand.

Finally, <u>central bank gold demand</u>, which rebounded in 2021, may remain an important source of demand. There are good reasons why <u>central banks favour gold as part of their foreign reserves</u> which, combined with the low interest rate environment, continue to make gold attractive. This was also evidenced by the fact that two developed market central banks last year joined the list of buyers which has been dominated by emerging market banks since 2010.

Gold's behaviour will depend on which factors tip the scale

Gold will likely face two key headwinds during 2022:

- higher nominal interest rates
- a potentially stronger dollar.

However, the negative effect from these two drivers may be offset by other supporting factors, including:

- high, persistent inflation
- market volatility linked to COVID, geopolitics, etc.
- robust demand from other sectors such as central banks and jewellery.

Against this backdrop, gold's performance during 2022 will ultimately be determined by which factors tip the scale. Yet, gold's relevance as a risk hedge will be particularly relevant for investors this year.

Investors can use <u>QaurumSM</u>, our valuation tool, to analyse how the impact of some of these key drivers may influence gold's performance across a range of customisable hypothetical macroeconomic scenarios.⁸

8 Qaurum is a web-based quantitative tool powered by the Gold Valuation Framework (GVF). An academically validated <u>methodology</u>, GVF is based on the principle that the price of gold and its performance can be explained by the interaction of demand and supply. In turn, demand and supply are influenced by macroeconomic scenarios that can be customised to calculate gold's implied performance based on these hypothetical conditions over various time periods. See **Important information and disclosures** at the end of this report.

Important information and disclosures

© 2022 World Gold Council. All rights reserved. World Gold Council and the Circle device are trademarks of the World Gold Council or its affiliates.

All references to LBMA Gold Price are used with the permission of ICE Benchmark Administration Limited and have been provided for informational purposes only. ICE Benchmark Administration Limited accepts no liability or responsibility for the accuracy of the prices or the underlying product to which the prices may be referenced. Other content is the intellectual property of the respective third party and all rights are reserved to them.

Reproduction or redistribution of any of this information is expressly prohibited without the prior written consent of World Gold Council or the appropriate copyright owners, except as specifically provided below. Information and statistics are copyright © and/or other intellectual property of the World Gold Council or its affiliates (collectively, "WGC") or third-party providers identified herein. All rights of the respective owners are reserved.

The use of the statistics in this information is permitted for the purposes of review and commentary (including media commentary) in line with fair industry practice, subject to the following two pre-conditions: (i) only limited extracts of data or analysis be used; and (ii) any and all use of these statistics is accompanied by a citation to World Gold Council and, where appropriate, to Metals Focus, Refinitiv GFMS or other identified copyright owners as their source. World Gold Council is affiliated with Metals Focus.

WGC does not guarantee the accuracy or completeness of any information nor accepts responsibility for any losses or damages arising directly or indirectly from the use of this information.

This information is for educational purposes only and by receiving this information, you agree with its intended purpose. Nothing contained herein is intended to constitute a recommendation, investment advice, or offer for the purchase or sale of gold, any gold-related products or services or any other products, services, securities or financial instruments (collectively, "Services").

This information does not take into account any investment objectives, financial situation or particular needs of any particular person.

Diversification does not guarantee any investment returns and does not eliminate the risk of loss. Past performance is not necessarily indicative of future results. The resulting performance of any investment outcomes that can be generated through allocation to gold are hypothetical in nature, may not reflect actual investment results and are not guarantees of future results. WGC does not guarantee or warranty any calculations and models used in any hypothetical portfolios or any outcomes resulting from any such use. Investors should discuss their individual circumstances with their appropriate investment professionals before making any decision regarding any Services or investments.

This information may contain forward-looking statements, such as statements which use the words "believes", "expects", "may", or "suggests", or similar terminology, which are based on current expectations and are subject to change. Forward-looking statements involve a number of risks and uncertainties. There can be no assurance that any forward-looking statements will be achieved. WGC assumes no responsibility for updating any forward-looking statements.

Information regarding Qaurum[™] and the Gold Valuation Framework

Note that the resulting performance of various investment outcomes that can be generated through use of Qaurum, the Gold Valuation Framework and other information are hypothetical in nature, may not reflect actual investment results and are not guarantees of future results. Neither WGC nor Oxford Economics provides any warranty or guarantee regarding the functionality of the tool, including without limitation any projections, estimates or calculations.

World Gold Council 7th Floor, 15 Fetter Lane London EC4A 1BW United Kingdom

T +44 20 7826 4700 **F** +44 20 7826 4799 **W** www.gold.org