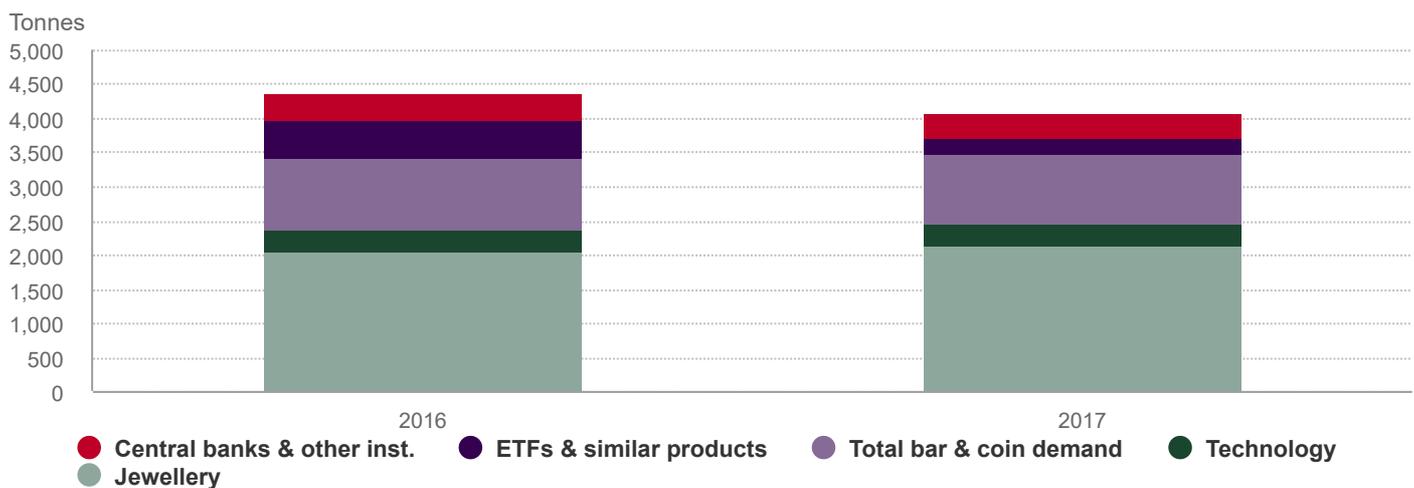


## 2017: Q4 recovery fails to mitigate full-year decline

Gold demand rallied in the closing months of 2017, gaining 6% year-on-year (y-o-y) to 1,095.8 tonnes (t) in Q4. But it was too little, too late: full year demand fell by 7% to 4,071.7t. ETF inflows, although positive, lagged behind 2016's stellar growth. Central banks added 371.4t to global official gold reserves, 5% down on 2016's net purchases. Bar and coin demand fell 2% on a sharp drop in US retail investment. India and China led a 4% recovery in jewellery, although demand remains below historical averages. Increased use of gold in smartphones and vehicles sparked the first year of growth in technology demand since 2010.

### 7% decline in annual gold demand was largely investment-related



Source: Metals Focus; World Gold Council

## Highlights

**Annual ETF inflows added 202.8t to demand, around one-third of 2016's inflows.** European-listed ETFs accounted for 73% of net inflows, with investors keenly attuned to geopolitics and negative interest rates.

**Bar investment was broadly stable, while coin investment slid 10%.** Weakness in the sector was largely explained by a sharp drop in US demand to a 10-year low of 39.4t, which exceeded strong gains in both China and Turkey.

**First annual increase in jewellery demand since 2013 (+4%), but the sector remains weak in a historical context.** Relatively stable prices and improving economic conditions paved the way for growth in 2017.

**Official gold reserves swelled by 371.4t, 5% down on 2016.** Turkey and Russia were the most prominent of the central bank buyers.

**Technology sector recovered, ending 6-year downtrend.** Gold used in electronics and industrial applications grew steadily, thanks to the increasing prevalence of new-generation features in smartphones and vehicles.

**Mine production inched to a record high of 3,268.7t, while recycling fell 10%: total supply dipped 4% to 4,398.4t.** The introduction of stringent environmental controls in China led to a 9% fall in national mine production.

# Jewellery

## Modest Q4 growth sets the seal on a positive year for jewellery demand.

- Full-year gold jewellery demand increased by 4% to 2,135.5t; the first year of growth since 2013
- India's 12% y-o-y improvement was partly due to a very weak 2016. Demand fluctuated on changes in tax and regulation
- The US market returned to growth: encouraging economic environment helped lift demand to its highest annual total since 2010
- Lower gold prices and seasonal factors in China and India aided a fourth quarter recovery

Tonnes	2016	2017	YoY	
<b>World total</b>	2,053.6	2,135.5	▲	4%
India	504.5	562.7	▲	12%
China	630.4	646.9	▲	3%

Demand for gold jewellery gained momentum in the final quarter of 2017, growing 3% y-o-y to a 2-year high of 648.9t. A corresponding increase in full-year demand was primarily driven by recovery in India, the US and China. These three markets together accounted for 78t of the 82t increase in global full-year demand.

### India

Indian jewellery demand recovered in Q4, gaining 4% y-o-y to reach 189.6t, the highest fourth quarter in our 17-year series. Rupee gold prices trended lower during the quarter, which proved positive for demand. The economic backdrop helped bank loan growth. Demand was further supported by:

- festival demand
- the government's decision to remove anti-money laundering regulation from jewellery
- improved rural sentiment.

In contrast with Q3, when the price was in almost permanent discount, the local price traded at a small premium to the international price for much of Q4. October started well: the Dhanteras festival – marking the start of the wedding season – coincided with a dip in prices, which encouraged demand.

## Gold traded at a small premium in India for much of Q4



Source: NCDEX; World Gold Council

**An added boost came when the government granted the gold market an exemption from onerous anti-money laundering measures.** The Prevention of Money Laundering Act (PMLA), which was extended to the gems and jewellery sector in August, had negatively affected jewellery demand as consumers and retailers were faced with a heavy administrative burden to prove the veracity of cash transactions. The effect was most pronounced in rural areas, where cash is widely used. The removal of the PMLA from the sector therefore had a positive impact on demand.

**Rural sentiment picked up in the fourth quarter, supporting a key element of the market.** Consumers in rural areas are the driving force behind Indian gold jewellery demand.<sup>1</sup> Positive sentiment among this demographic is quickly felt in certain areas of the economy, the gold jewellery market being one of them. Sentiment was vastly improved compared with Q4 2016, when these consumers were struggling with the drastic and unexpected demonetisation of the economy. A 6% increase in the minimum support price for kharif crops also helped. Strong growth in tractor sales bears out this improvement: Mahindra & Mahindra Ltd.'s Farm Equipment Sector (the world's largest tractor manufacturer) announced **32% y-o-y growth in tractor sales during November and are upbeat in their outlook.**<sup>2</sup>

**The market is becoming increasingly accustomed to the Goods and Services Tax (GST).** As foreseen in our **Market Update: GST's impact on India's gold market,**<sup>3</sup> organised retailers were best equipped to transition to the GST system and this worked to their benefit as they increased their share of the jewellery market.

Looking forward, we expect a continued recovery in demand as the market increasingly accepts, and adapts to, GST. And the relative outperformance of chain stores and organised retailers is, in our view, likely to be a key feature of this recovery.

## China

**China's 6% growth in Q4 contributed to a 3% rise in annual jewellery demand – the first yearly increase since 2013.** Demand for the full year increased to 646.9t thanks to a strong H2, which was buoyed by holiday purchases and a retail trade more effectively targeting consumer needs.

**The trend for lower-weight, better designed, higher-margin 'premium' gold jewellery products continues to gather momentum.** Retailers are increasingly tapping into this segment of the market, shifting their product offering to incorporate more 18-carat, 22-carat and 3D hard products. Although 24-carat gold still dominates the market, it is fast losing market share - notably in tier 1 and 2 cities. Major retailer Chow Tai Fook reported that it sold more than 300,000 pieces of 22-carat jewellery under its 17916 product series and that demand for gold drove [sales growth in the six months to end-September.](#)<sup>4</sup>

**Retailers are also appealing to customers by offering an enhanced shopping experience – and online retailing is a key part of that strategy.** Chow Tai Seng, which partners with Tmall – Alibaba's ecommerce platform – saw its sales up 70% year-on-year on 'Singles Day', to more than 80 million yuan (US\$12 million). The jeweller's self-operated stores are mostly located in tier 1-2 cities, but by piggy-backing on the online reach of Tmall, it can easily reach consumers in more than 300 cities throughout China. In a bid to appeal to younger consumers, the company has also embraced the latest technology – augmented reality (AR). Visitors to its 'smart store' can see how each piece of jewellery looks on them using a 'magic mirror'.

**The outlook for Chinese jewellery demand is, we believe, quite positive.** Retailers continue to better meet consumers' changing needs and sentiment is lifted by the supportive economic environment. There is also a view that demand is improving at a more sustainable rate than in the bargain-hunting frenzy of 2010-13.

## Other Asia

**Smaller Asian markets were predominantly weaker in both Q4 and full-year 2017; only Indonesia and Vietnam bucked the trend.** Demand across much of the region was stagnant at best in Q4, translating to losses in annual demand. Japan had a disappointing result: Q4 demand was marginally weaker at 5.1t (-1%). This added to weakness earlier in the year, with the result that 2017 annual demand slipped 2% to 16.6t. Improving conditions in the wider retail sector may, however, extend to jewellery over the coming year.

**Vietnam was the strongest market in the region: 11% y-o-y growth in Q4 lifted annual demand by 7% to 16.5t.** This was the strongest year for Vietnamese jewellery demand since 2008. Demand benefited from robust economic growth and continued stock market gains. Expansion of the jewellery retail network, and the tentative signs that the government will begin to liberalise the gold market, also boosted the market.

## Middle East & Turkey

**In Turkey, record-high local prices weakened Q4 jewellery demand and put the brakes on annual growth.** The gold price in Turkish lira terms jumped to record highs in late November, discouraging consumers from buying jewellery. Meanwhile, the government's [Credit Guarantee Fund, which had injected the economy with a short-term liquidity boost, dried up.](#)<sup>5</sup> Economic uncertainty and political instability were further deterrents. But recycling activity was similarly subdued – in the uncertain environment, consumers preferred to stay on the sidelines.

**Middle Eastern demand recovered in Q4, but H1 losses dominated: annual demand was down 1% y-o-y.** Iran was the strongest performer in 2017: Q4 was its tenth consecutive quarter of y-o-y growth. Annual demand gained 12% to 45.4t, the highest since 2013. But the market lost momentum in the fourth quarter as worsening US-Iranian relations undermined consumer sentiment.

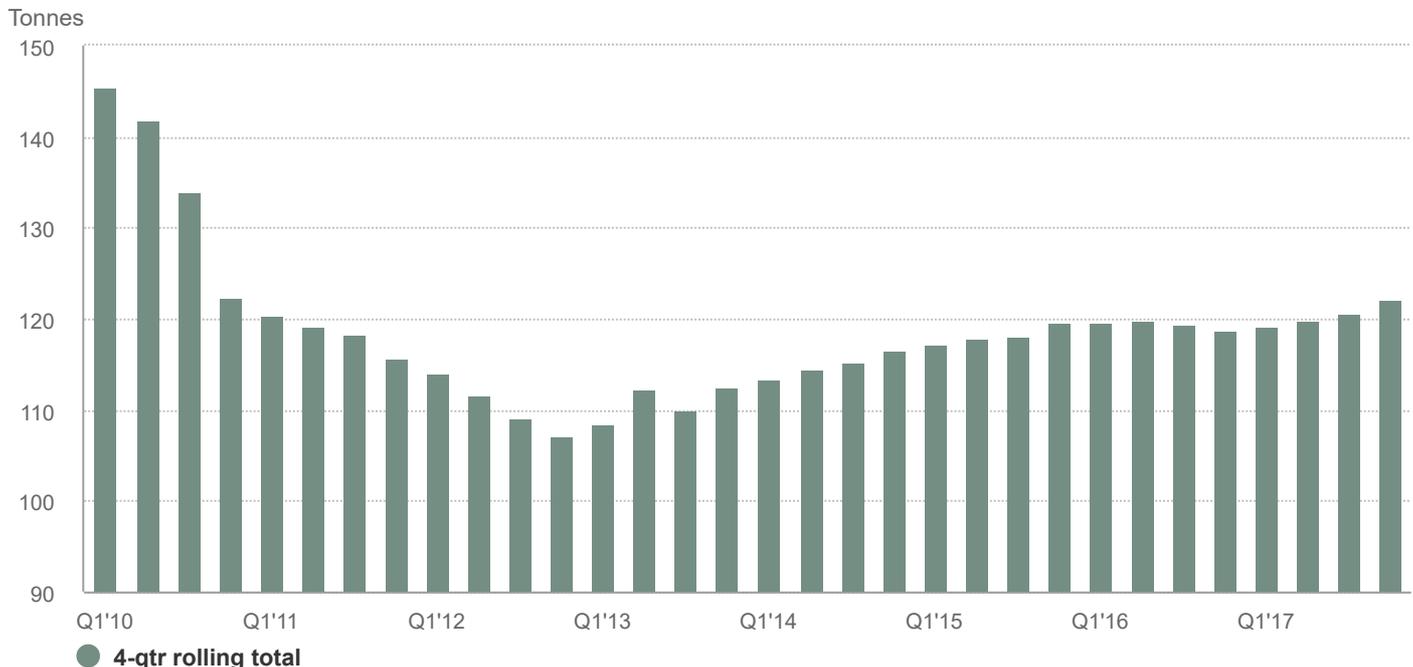
**In Egypt, demand was dented again by the weak local currency, which kept prices elevated.** But in value terms, demand increased in 2017 (by 56% to reach E£15.8mn), suggesting that consumers consider a certain value of spend rather than focusing on the weight of gold they purchase.

**Demand in the UAE received a small boost in December as consumers rushed to make their purchases before a 5% Value-Added-Tax (VAT) was imposed in January.** But the 16% y-o-y gain in Q4 demand failed to rescue the market from a fourth consecutive annual decline: 2017 demand was down 2% to a 20-year low of 42.8t.

## The West

**Annual jewellery demand in the US gained 3% to 122.1t, as Q4 demand reached an eight-year high.** The improving economic environment that buoyed sentiment – and demand – in Q3 continued to lift the market in the final quarter. Q4 demand of 46.1t was the highest fourth quarter for US jewellery since 2009. Online sales accounted for a growing share of jewellery demand, which played to the strengths of the larger, higher-end retailers. Tiffany & Co., for example, reported 8% growth in their holiday season sales. Luxury retail analysts at Cowen & Co confirmed that they remain enthusiastic on Tiffany in part because of their ‘the tasteful blending of stores and online which should result in less friction in the buying process...’.<sup>6</sup> In contrast, lower-end, mass-market retailers have suffered.

## US jewellery demand: recovering but still a long way from previous levels



Source: Metals Focus; GFMS, Thomson Reuters; World Gold Council

**In 2017, Europe saw a third consecutive annual decline in jewellery demand, with losses persistent throughout the year.** The 3% drop in regional demand (from 76.1t to 74t) was largely due to weakness in the UK market, which remained troubled by Brexit concerns. The lower-end of the market was worst hit, with 9-carat jewellery seeing the largest losses. Demand in the 22-carat niche was contrastingly resilient. Italian demand was also softer, although regional differences were noted: better than expected demand in northern Italy alleviated losses in the more traditional south.

## Investment

### Annual inflows into gold-backed ETFs in 2017 fell short of 2016's stellar growth while bar and coin demand fell 1.9%: overall investment demand was down 23% y-o-y

- Annual ETF inflows of 202.8t were concentrated in the first half of the year before slowing to a far more modest pace in H2
- Bar and coin demand fell, driven by a 10% drop in coin demand
- China remains the world's largest bar and coin market, recording its second-best year on record

Tonnes	2016	2017	YoY
<b>Investment</b>	1,595.5	1,231.9	▼ -23%
Bar & coin	1,048.7	1,029.2	▼ -2%
India	161.6	164.2	▲ 2%
China	284.6	306.4	▲ 8%
Gold-backed ETFs	546.8	202.8	▼ -63%

## ETFs

European-listed funds captured 73% (148.9t) of global gold-backed ETF inflows in 2017. US-listed ETFs captured 63.0t, while Asia and other regions reduced their holdings by a collective 9.2t. Total holdings in the sector grew by 9%, reaching 2,368.2t by year-end, up from 2,165.4t at end-2016. In value terms, assets under management (AUM) grew by 24% to US\$98.7bn. Global inflows were unsurprisingly lower in comparison with 2016, a year in which annual inflows of 546.8t were the second highest on record.

### European ETFs absorbed 73% of global inflows in 2017



Source: Company Filings; Bloomberg; ICE Benchmark Administration; World Gold Council

The pace of growth in the sector slowed sharply in the second half of the year. Inflows of 42.1t in H2 were around one-quarter of the 160.7t seen during H1 2017. In some ways, this was not unexpected: the gold price had already gained 14%

by end-August, which encouraged a degree of profit-taking rather than fresh buying. Meanwhile, stock markets continued to climb to new highs, and the opportunity cost of investing in gold increased as ultra-loose monetary policy came to an end in some markets - most notably in the US, where the Fed delivered three rate hikes in 2017.

**But investors maintained a benign attitude towards gold-backed ETFs in Q4, adding 28.9t.** Europe dominated the Q4 picture with inflows of 32.3t. In contrast, US ETFs saw 12.4t of outflows as investors focused on rising equity markets and the changing monetary policy environment. Inflows into Asian funds jumped towards the end of the year as Chinese investors responded to December's sharp price fall: the region saw inflows of 11.8t in Q4.<sup>7</sup>

Demand in the sector has firm foundations: anecdotal evidence from ETF providers suggests that investors continue to favour a strategic position in gold as an 'insurance policy' to mitigate risk. And, in our view, risks are plentiful.

**Simmering geopolitical turmoil continued to underpin investment inflows, particularly in Europe.** Persistent uncertainty over the economic and political implications of Brexit, fragile US-North Korea relations, and continued tension in the Middle East combined to create a positive backdrop for gold-backed ETF investment.

**Major stock indices made new highs.** As valuations became increasingly frothy, we believe many investors grew nervous of a potential pullback, adding gold to their portfolios to manage risk exposure.

**While central banks are starting to unwind their quantitative easing and asset purchase programmes, the implications of those policies are likely to have repercussions for years to come.** Ultra-low – in some cases negative – interest rates have propelled many asset prices higher; as rates normalise, bond returns will come under pressure. In our view, these shifts may spur financial market volatility. For a discussion of the possible repercussions of expansionary monetary policy refer to our [\*Outlook 2018: Global economic trends and their impact on gold.\*](#)<sup>8</sup>

While Western investors are often grouped together and expected to display a similar mindset, European investors faced a handful of factors that differentiated them from their US counterparts. Among these is, we believe (and as we reported when our [\*Q4 ETF data was released in January\*](#)) [\*a greater level of concern regarding global instability.\*](#)<sup>9</sup> And despite the changing US interest rate environment, real rates in Europe remain negative: German government bonds with maturities of five years or less are still yielding negative returns. As we uncovered in our consumer research, [\*a key motive for buying gold among German investors is the belief that it will protect wealth and, to a lesser extent, provide good long-run returns.\*](#)<sup>10</sup> Such an environment therefore benefited European gold-backed ETFs.

## Bar and coin

**Bar and coin demand dropped 19.5t to 1,029.2t in 2017.** Weak coin demand accounted for most of the fall, with losses concentrated in the US. Bar demand was 770.9t and has been relatively stable in recent years, averaging 773t since 2014.

**The US recorded the biggest drop in demand of any country in 2017: it fell from 93t to 39.4t, its lowest level since 2007.** Data from the US Mint reveals that its sales of bullion coins dropped 21.2t, accounting for the lion's share of the decline in global coin demand in 2017. The sharp fall was partly because 2016 was a strong year, and partly because investors' attention was drawn to US equity markets reaching new record highs. US bullion dealers also reported that the relatively range-bound US dollar gold price over the course of the year failed to elicit any excitement amongst investors. Q4 US bar and coin demand was 9.6t, down 65% on the previous year.

**China was the world's largest bar and coin market in 2017, with 306.4t of investment - its second highest year of bar and coin demand.** Annual demand was 8% higher compared to 2016 and comfortably above its five-year average of 284.8t.

China started the year strongly: Q1 investment hit 105.9t, the fourth highest quarterly figure on record. This was largely due to investors' concerns over the weakness of the yuan in 2016, when it fell almost 6%, and worries that it would slide further

in 2017. But as the year progressed, the yuan appreciated and equity markets rose. Investors' fears faded, and bar and coin demand fell back to more normal levels, averaging 66.8t from Q2 to Q4.

## Currency concerns help drive Chinese bar and coin investment



\*Index: 31/03/2014=100

Source: Metals Focus; GFMS, Thomson Reuters; Bloomberg; World Gold Council

China's commercial banks continued to face stiff competition from other bullion retailers. To protect income from their precious metals business lines, some banks placed greater emphasis on higher-margin gold products, such as Disney-branded gold pendants, while others promoted the sales of highly-designed gold bank notes. [These weigh 1 to 2 grammes each and, with beautifully designed artwork, come at a hefty premium of more than 100%. <sup>11</sup>](#)

**India's annual bar and coin demand rose to 164.2t, a modest 1.6% increase on 2016.** When examined in a longer-term context, bar and coin demand was relatively weak: it was below the three-year average of 173.6t. The government's clamp down on unaccounted money and a heightened focus on the source of funds for cash transactions has affected this part of the market.

Indian demand was down 3.4% y-o-y in Q4. The quarter started well with healthy demand for coins during Dhanteras in early October. Although online channels, such as [PayTM Gold <sup>12</sup>](#) and [Me-Gold, <sup>13</sup>](#) currently represent a small part of the market, they performed well, gaining traction amongst young, digital-savvy investors in urban areas. There was a further boost to retail investment demand in December when the rupee gold price fell below Rs29,000/10g for the first time since August 2017. But in the intervening period demand was soft, with many sophisticated investors more focused on the strong performance of India's leading equity index – the BSE SENSEX – which was up 28% over the course of the year.

**Demand in the Middle East more than doubled in 2017, reaching 40.5t.** The market, however, remains a shadow of its former self: in the ten years between 2007 and 2016, average annual demand was just shy of 70t.

Iran accounted for most of the improvement in the region. After a weak 2016, demand returned in 2017, with net purchases of 18.3t. The mood in the market, however, is fragile. Geopolitical issues, including the deteriorating US-Iranian relationship, knocked investor sentiment in Q4.

**Turkey recorded 78% growth in annual bar and coin demand, leaping from 29.4t in 2016 to 52.4t in 2017.** This was its strongest performance in four years. The government's Credit Guarantee Fund – which guaranteed loans to small and

medium-sized enterprises that could not otherwise get credit – boosted the economy and supported gold demand. The effect, however, was short-lived. In Q4, demand fell by around two-thirds (both y-o-y and q-o-q) as [loans from the Credit Guarantee Fund dried up, and the Turkish lira tumbled, pushing up the local gold price.](#) <sup>14</sup>

Annual European demand fell 7%, with declines across all markets. Germany – Europe’s largest market – saw demand drop 4.5t to 106.3t. Its economy is performing well and its main equity index – the DAX – hit record highs in 2017. In addition, drawn-out coalition talks appear to be giving investors little cause for concern. Despite the benign backdrop, German gold demand is still several multiples of what it was in 2007, before the global financial crisis struck. For more information about the evolution of Germany’s gold market, please see [Market Update: Germany’s golden decade.](#) <sup>15</sup>

## Central Banks and other institutions

### Eighth consecutive year of central bank net purchases, marginally down on 2016

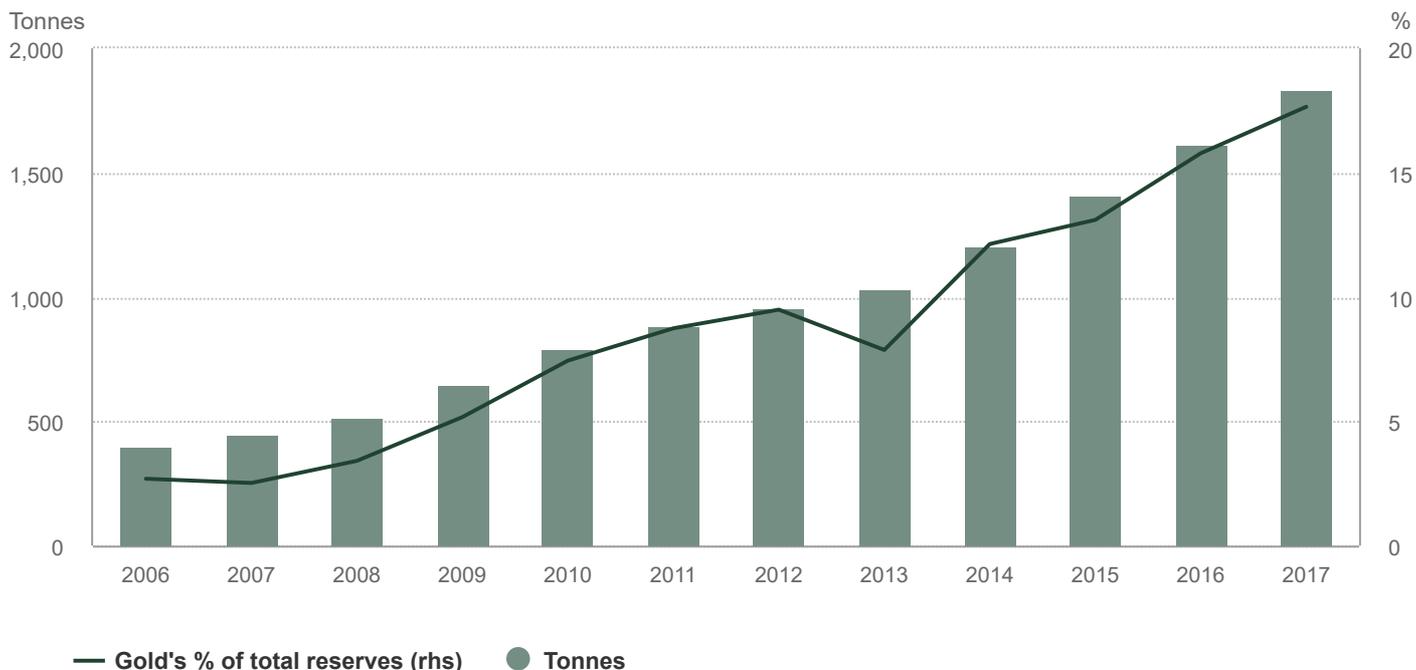
- Central bank net purchases totalled 371t in 2017, 5% lower than 2016 demand

Tonnes	2016	2017	YoY
Central banks & others	389.8	371.4	▼ -5%

- Q4's 38% y-o-y decline was entirely driven by the lapse of sizeable Venezuelan swap
- Russian gold reserves increased 224t – the third consecutive year of +200t growth

**Central banks continued to bolster gold reserves in 2017.** Total global gold reserves increased by 73.1t in Q4, bringing full-year net purchases to 371.4t (-5% y-o-y). The 38% y-o-y decline in demand in Q4 was entirely driven by Venezuela's swap deal lapsing. The agreement with Deutsche Bank was valued at US\$1.7bn, which represents approximately 45 tonnes of gold.<sup>16</sup> The transaction lapsed in October and is accounted for as a sale in our Q4 figures.

### Russia's official gold holdings grew to almost 18% of total reserves in 2017



Source: IMF IFS; ICE Benchmark Administration; World Gold Council

**Growth in global gold reserves continued to be dominated by a small number of large purchasers.**<sup>17</sup> Russian net gold purchases in 2017 hit 223.5t, lifting gold reserves to 1,838.8t (+14%) by the end of the year. This marks the 11th year of growth in their gold reserves, and the third consecutive year in which net purchases topped 200t. Gold now accounts for almost 18% of total reserves. Sergey Shvetsov, First Deputy Chairman of the Russian central bank, stated that this growth in gold reserves is a directive by the Russia authorities, who see it as a key asset in the face of geopolitical uncertainty.<sup>18</sup>

**The most notable purchaser of the year was Turkey.** The central bank began buying with gusto: reserves increased by an average of 11t per month from May.<sup>19</sup> By the end of 2017, gold reserves had increased by 86t to over 200t. As we noted in our Q2 report, the decision to make regular purchases of gold was strategic and in line with Turkey's view that gold is a key reserve asset.<sup>20</sup>

**Kazakhstan remained committed to increasing their gold reserves.** The central bank bought a net 11.6t in Q4, taking total net purchases for the year to 42.9t. This brings Kazakhstan's gold reserves to just over 300t, 40% of total reserves, at the end of 2017. Other noteworthy purchasers during the year were: Colombia (4.6t), Venezuela (4.4t), Indonesia (2.5t), Jordan (2.2t), Kyrgyz Republic (1.8t), Thailand (1.6t) and Mongolia (1.3t).

**Notwithstanding Venezuela's lapsed swap, significant net sales were limited in 2017.** Most countries left their gold reserves relatively untouched during the year. Germany was the only significant seller throughout the year, using 4.3t of gold reserves for its coin-minting programme.

# Technology

**Demand for gold in the technology sector saw an overall gain of 3% to 332.8t in 2017, the first y-o-y increase since 2010. Q4 was a particularly strong quarter at 88.2t, the highest level of demand since Q4 2014**

- **Electronics demand was 4% higher in 2017, with recovery persistent across all four quarters**
- **Three key components of electronics – wireless chips, Printed Circuit Boards (PCBs) and gold bonding wire – drove growth**
- **Only the dental sector registered lower demand, continuing the trend of recent years**

Tonnes	2016	2017		YoY
<b>Technology</b>	323.4	332.8	▲	3%
Electronics	255.6	265.3	▲	4%
Other Industrial	49.8	50.6	▲	2%
Dentistry	18.0	16.8	▼	-6%

**Gold used in electronics gained 6% y-o-y to 71.3t in Q4. Despite some seasonal pressure on the LED sector, the other three key sub-sectors achieved decent growth.** The wireless sector was the indisputable outperformer thanks to increasing numbers of sensors embedded in smartphones, and the high level of wafer output among wireless chip manufacturers. Record levels of memory chip demand underpinned growth in gold bonding wire, while gold coatings used in PCBs also experienced high demand.

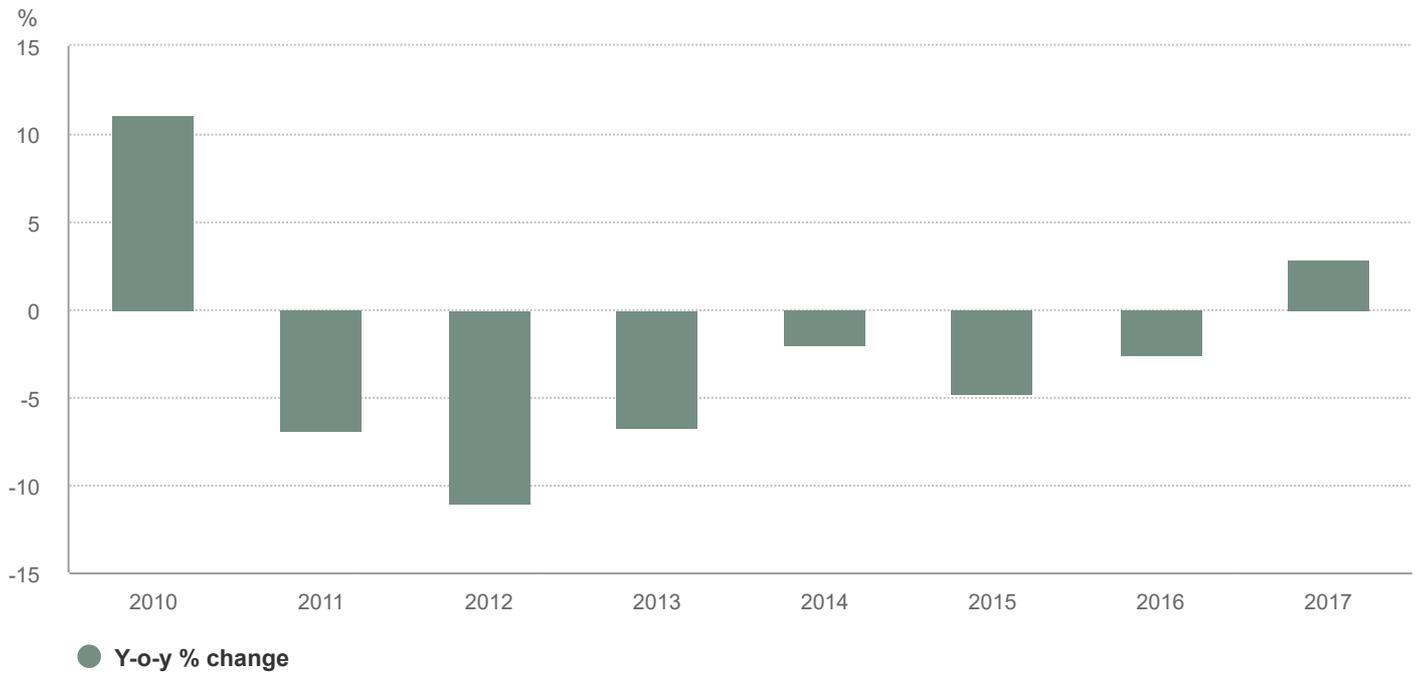
The wireless sector benefited from a surge in demand for 3D sensors; most notably those powering new-generation smartphone features such as 3D video, virtual reality (VR), augmented reality (AR) and iris- and gesture-recognition. The emerging 5G network infrastructure market generated additional demand. Taiwan-based Win Semiconductors, for example, saw its 2017 wafer output increase 70%. Overall, gold demand in wireless applications was estimated to have grown by as much as 20 to 30% y-o-y in Q4.

Gold bonding wire demand continued to be supported by the combination of a severe supply shortage of, and an unprecedented demand for, memory chips in 2017. Looking forward, DRAM and NAND price windfalls will encourage major chip companies, such as Samsung, Hynix and Micron, to increase production. This may translate to additional demand for gold if overcapacity in the market is avoided.

Demand from the LED sector lagged due to its traditional seasonal dip. Q4 was 1-3% lower y-o-y. The outlook, though, is broadly positive with LED manufacturers planning to increase production capacity of high margin units. Many of these LEDs will be used in the automotive sector, a key growth industry for electronic components. We expect this will be supportive for gold demand.

Taiwan and South Korea topped the league table of gold demand in the electronics sector, with y-o-y growth of 17% and 16% respectively in Q4.

## Volume of gold used in technology increased for the first time in seven years



Source: Metals Focus; GFMS, Thomson Reuters; World Gold Council

# Supply

## Decline in recycling drove total supply 4% lower to 4,398t, as mine production crept to new high in 2017

- Mine production rose fractionally to 3,268.7t in 2017, the highest annual total in our series
- 2017 saw net de-hedging of 30.4t, the first year of net de-hedging since 2013
- Unusually high recycling levels in 2016 were the main cause of a 10% y-o-y decline in 2017, as recycling activity normalised

Tonnes	2016	2017	YoY
<b>Total supply</b>	4,590.9	4,398.4	▼ -4%
Mine production	3,263.0	3,268.7	▲ 0%
Net producer hedging	32.8	-30.4	-
Recycled gold	1,295.1	1,160.0	▼ -10%

### Mine production

Mine production finished 2017 by falling 2% y-o-y to 833.1t in Q4. This resulted in overall annual mine production of 3,268.7t – fractionally higher compared to 2016 – and the highest annual total in our records. New mine starts in recent years have mostly served to fill the gap left by production losses elsewhere, which has led to a relative plateauing in global output.

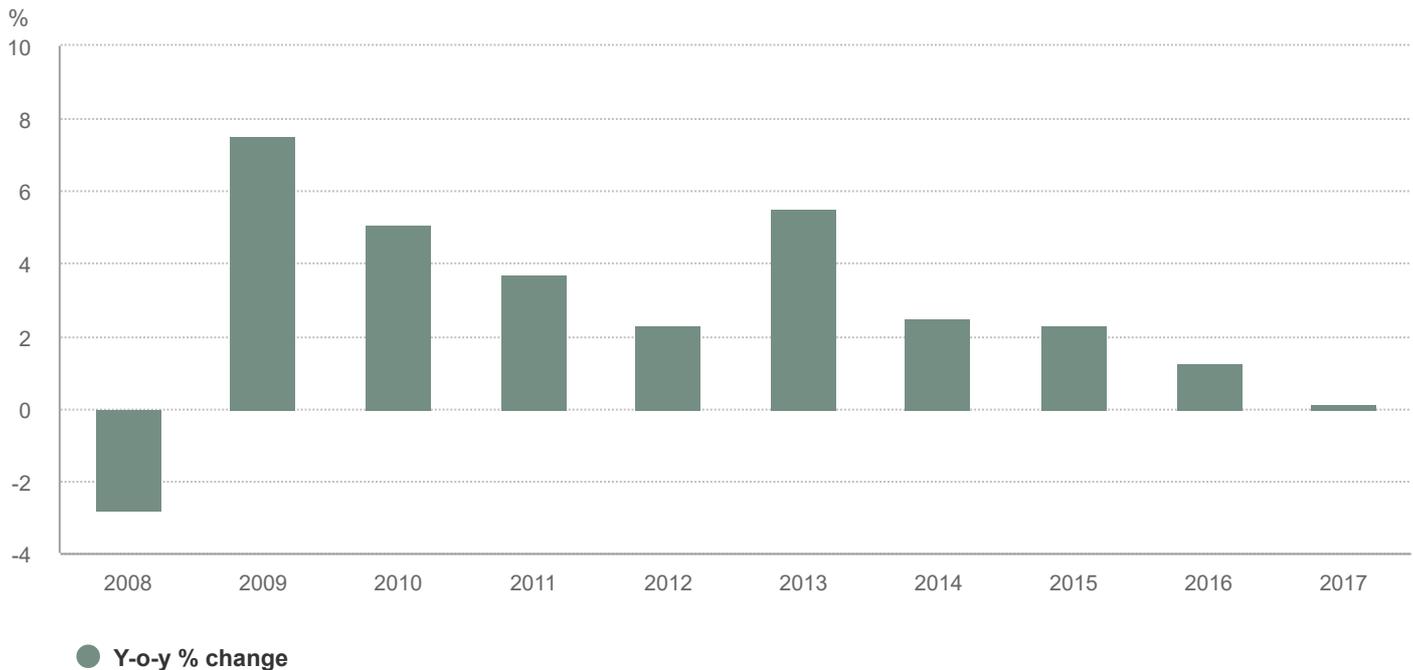
**Familiar issues in China and Tanzania continued to impact production in Q4.** In China – the world’s largest producer – Q4 saw another y-o-y decline; national production dropped 10%. Provisionally, 2017 output is expected to be 9% lower than 2016, only the second annual drop in production since 1980. Stricter environmental regulations – relating to cyanide in tailings – imposed earlier this year resulted in the closing of some marginal operations in 2017, negatively impacting overall output. One of the key messages in President Xi’s report at China’s 19th Communist Party Congress was the implementation of the strictest possible environmental protections. Tanzanian mine production fell 15% y-o-y in Q4. The ongoing concentrate exports ban – introduced in March – continues to impact output from Acacia Mining’s Buzwagi project, while the company is also in the process of reducing operations at its primary Bulyanhulu project to help manage losses.

Several other jurisdictions also saw declines. The y-o-y change in Q4 production in the United States, Brazil and Mali were all affected by comparison with a high base period in 2016.

Output from Russia saw a y-o-y increase in Q4. The quarter also saw the start-up of the significant Natalka project located in the Magadan region. The project began commissioning in September and announced in December that it had poured its first doré. While the project is still in the early stages of production, [Polyus expect this will significantly boost the company’s, and Russia’s, production in coming years.](#)<sup>21</sup>

In Indonesia, the mining of higher grade ore at Grasberg – the country’s largest mine – helped boost Q4 mine production by 11%. The mining of higher grades is likely to persist into 2018. In Canada, the Hope Bay (Q1 start) and Brucejack (Q2 start) projects, as well as Q4 start-ups Rainy River and Moose River, contributed to a 5% increase in Q4. Several West African start-ups – Fekola and Yanfolila (Mali), and Houndé (Burkina Faso) – also entered production towards the end of 2017.

## Mine production growth continued to slow



Source: Metals Focus; GFMS, Thomson Reuters; World Gold Council

## Net producer hedging

**Total net de-hedging in 2017 reached 30.4t, bringing an end to three consecutive years of modest net hedging.** In Q4, gold miners completed 15t of net de-hedging;<sup>22</sup> the overall global hedgebook now stands at around 222t. As with previous quarters, fresh gold hedges were tactical in nature, mainly established to secure project cashflow, project financing, or high local gold prices.

In October, Westgold Resources announced an increase in its short-term hedgebook of 40,000oz to lock in higher local prices. In November, Gold Road – which is developing the Gruyere gold mine in Australia – announced that it had entered into forward agreements which hedged 200,000oz to secure a portion of the mine's future production. And in the same month, Resolute Mining announced it had agreed to hedge 72,000oz of output, to fund the expansion project at its Ravenswood gold mine. This follows forward sales of 84,000oz in September to help fund development of the Syama mine in Mali.

## Recycling

**Gold recycling activity spent much of 2017 normalising after an impressive 2016.** Despite the gold price performing relatively well in many currencies throughout 2017, the annual supply of recycled gold fell 10% to 1,160t, from 1,295.1t in 2016. After recycling responded with vigour to the stellar price increase in the first three months of 2016, it was believed that 2017 would likely struggle to compare favourably.

Q4 was the only quarter which saw a y-o-y increase in recycling during 2017: the 276.6t sold back by consumers was 8% higher than the same period in 2016 – which was negatively impacted by a significant price drop and the shock demonetisation in India.

**East Asian and Middle Eastern markets drove declines in recycling during 2017.** Recycling activity in 2016 – boosted by higher local prices on the back of currency weakness – was particularly high in Indonesia, Turkey and Egypt. This also made subsequent price levels in 2017 appear less attractive to consumers open to selling, contributing to the relative weakness in the y-o-y comparison. Political tensions across the Middle East also spurred consumers to hold onto gold rather than cash in.

In Western markets, the relatively strong performance of gold in US\$ terms supported recycling levels in the United States. But gold's weaker price performance in euro terms meant that European recycling fared less well. In the UK, recycling activity continued to re-adjust in 2017, after jumping in response to the Brexit referendum in 2016.

## Footnotes

1. [World Gold Council, 'India's gold market: evolution and innovation', January 2017. www.gold.org/research/india-gold-market](http://www.gold.org/research/india-gold-market)
2. Read more: [www.mahindra.com/news-room/press-release/mahindra-farm-equipment-sector-sells-21046-units-in-india-during-november](http://www.mahindra.com/news-room/press-release/mahindra-farm-equipment-sector-sells-21046-units-in-india-during-november)
3. Read more: [www.gold.org/research/market-update/gst-impact-on-indias-gold-market](http://www.gold.org/research/market-update/gst-impact-on-indias-gold-market)
4. Read more: [www.businessoffashion.com/articles/news-analysis/demand-for-gold-in-china-lifts-profit-at-worlds-largest-jeweller](http://www.businessoffashion.com/articles/news-analysis/demand-for-gold-in-china-lifts-profit-at-worlds-largest-jeweller)
5. Read more: [www.gold.org/research/gold-demand-trends/gold-demand-trends-full-year-2017/investment](http://www.gold.org/research/gold-demand-trends/gold-demand-trends-full-year-2017/investment)
6. Read more: [www.cnbc.com/2018/01/17/tiffanys-2017-holiday-sales-jump-8-percent.html](http://www.cnbc.com/2018/01/17/tiffanys-2017-holiday-sales-jump-8-percent.html)
7. Our ETF data series has been slightly amended to incorporate lagged data for China's Bosera I fund.
8. Read more: [www.gold.org/research/gold-market-2018](http://www.gold.org/research/gold-market-2018)
9. Read more: [www.gold.org/data/gold-etf-holdings](http://www.gold.org/data/gold-etf-holdings)
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15. Read more: [www.gold.org/research/market-update/market-update-german-investment-market](http://www.gold.org/research/market-update/market-update-german-investment-market)
16. For the compilation of our central bank demand statistics, we have assumed the swap represents 45t.
17. All country-level data is taken from the IMF's International Financial Statistics (IFS), February 2018 edition.
18. Read more: [www.rt.com/business/411700-russia-gold-reserves-putin/](http://www.rt.com/business/411700-russia-gold-reserves-putin/)
19. Excluding commercial bank gold holdings held at the central bank as part of the reserve option mechanism.
20. [World Gold Council 'Gold Demand Trends Q2 2017 : Central banks and other institutions' August 2017. www.gold.org/research/gold-demand-trends/gold-demand-trends-q2-2017/central-banks](http://www.gold.org/research/gold-demand-trends/gold-demand-trends-q2-2017/central-banks)
21. Read more: [www.polyus.com/en/media/press-releases/polyus-starts-commissioning-of-natalka/](http://www.polyus.com/en/media/press-releases/polyus-starts-commissioning-of-natalka/)
22. Q3'17 has been revised from -10t to 8.3t, owing to the incorrect omission of hedges by Yamana Gold (285,000oz) and Teranga gold (131,000oz).

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