

USD per ounce of gold



USD per ounce of silver



EURUSD



Source: Thomson Financial; graphs by Degussa.

Precious metals prices				
	Actual (spot)	Change against (in percent):		
		2 W	3 M	12 M
I. In US-dollar				
Gold	1.477.3	0.7	-3.5	15.2
Silver	17.2	1.3	-6.9	10.9
Platinum	909.9	2.3	-2.1	14.9
Palladium	1.854.9	8.8	21.2	47.1
II. In euro				
Gold	1.332.9	0.4	-4.5	19.3
Silver	15.5	1.0	-7.9	15.1
Platinum	821.0	2.0	-3.1	18.5
Palladium	1.674.0	8.6	19.9	51.6
III. Gold price in other currencies				
JPY	160.448.0	0.6	-1.3	14.2
CNY	10.431.0	1.5	-5.0	18.3
GBP	1.136.6	0.0	-10.4	13.1
INR	105.966.0	1.9	-3.8	18.8
RUB	94.754.9	1.3	-7.3	6.1

Source: Thomson Financial; calculations by Degussa.

OUR TOP ISSUES

This is a short summary of our fortnightly **Degussa Marktreport**.

WHY THE FEARED CRASH KEEPS US WAITING

The Austrian Business Cycle Theory offers a sound explanation of what happens with the economy if and when the central banks, in close cooperation with commercial banks, create new money balances through credit expansion. Said credit expansion causes the market interest rate to drop below its 'natural level', tempting people to save less, consume more, and drives firms to increase investment spending. The economy enters into a boom phase.

However, the boom is unsustainable. After the effect of the injection of new money balances has worked itself through the economy, consumers and entrepreneurs realise that the economic expansion has been a one-off affair. They return to their previously preferred savings-consumption-investment affinity: Once again, they save more, consume, and invest less. This manifests itself in a rising market interest rate and the boom subsequently turns into bust.

CREDIT MARKET DISTORTION

The market interest rate plays a crucial role in the boom and bust cycle. As it is manipulated downwards by the central bank, a boom sets off, and as the market interest returns to its 'natural level', the boom turns into bust. This explains why central banks have been increasingly trying to gain full control over the market interest rate in recent years: For he who controls the market interest rate controls the boom and bust cycle.

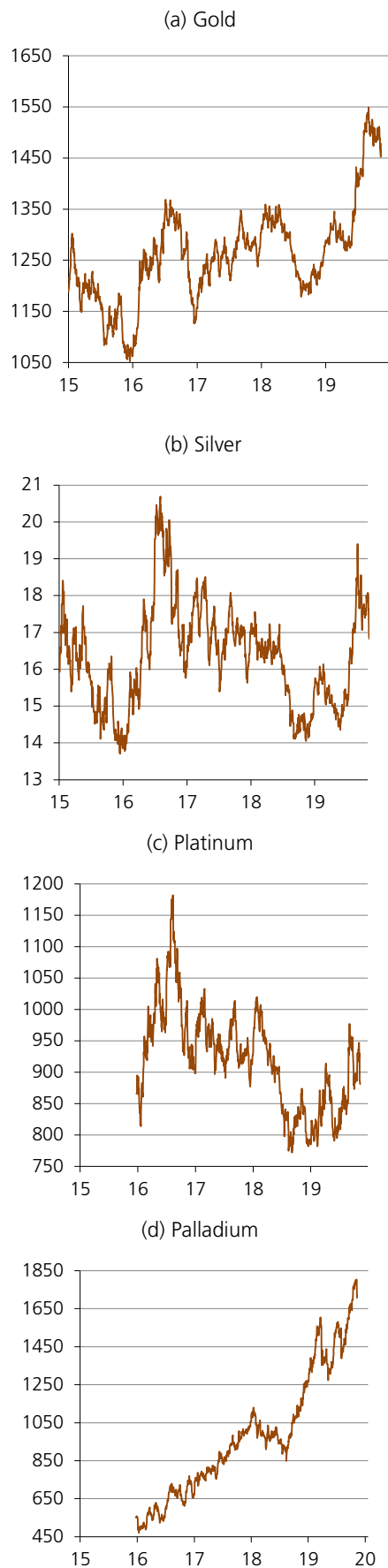
The major central banks around the world have effectively taken over the credit markets in an attempt to prevent the current boom from turning into yet another bust. On the one hand, monetary authorities fix the short-term market interest rate in the interbank funding market. By doing so, they also exert a rather strong influence on credit rates across all maturities.

On the other hand, central banks influence long-term interest rates directly: They purchase long-term bonds, thereby determining their price and yield. The credit market 'government securities' can be expected to already be under full control of monetary policymakers; and it is just a technicality for any central bank to extend its purchases if needed to bank and corporate debentures and mortgage debt.

KEEPING THE BOOM GOING

If and when central banks succeed in keeping market interest rates at very low levels, the 'correction mechanism' – namely a rise in market interest rates – is

Precious metal prices (USD/oz) in the last 4 years



put to rest, and the boom can be kept going, while the bust is postponed. Basically, all major central banks around the world have taken recourse to policies controlling market interest rates, and quite effectively so as the economic expansion – fuelled by overconsumption and malinvestment – in the last decade testifies.

The question is, however, whether the boom can last indefinitely, whether the economies can flourish with chronically artificially suppressed interest rates? This is a rather complicated question, deserving of an elaborate answer. To start with, the boom can be kept going as long as market interest rates remain suppressed below the economy's 'natural interest rate'.

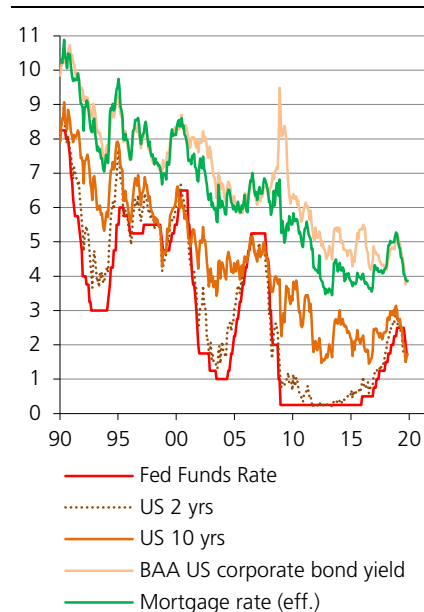
If however, the market interest rate hits zero, things take a nasty turn, as people would stop saving and investing. Why save and invest, why take any risks that do not yield a positive return? In fact, with the market interest rate hitting zero, capital consumption sets in and the division of labour collapses. A nightmare scenario: If the market interest rate disappears, we will fall back into a primitive hand-to-mouth economy.

CAUSING PRICE BUBBLES

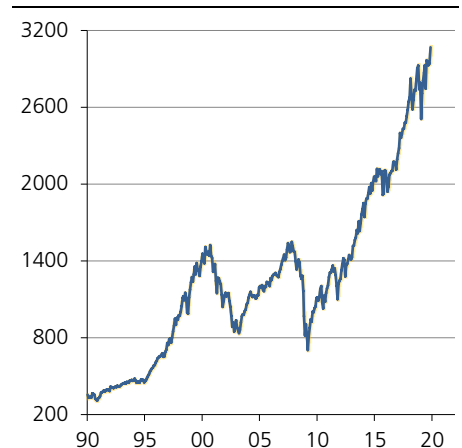
Against this backdrop, we may say the following: As long as there is still room for pushing the market interest rate down further, the chances are reasonably good that the boom continues, and that the bust will be adjourned into the future. As per the charts below, current market interest rates in the US have not reached rock bottom yet. Corporate and mortgage credit costs in particular still have some way to go before hitting zero.

1 Declining interest rates, rising stock prices

(a) Selected US interest rates in per cent



(b) S&P 500 stock market index



Source: Thomson Financial; graph by Degussa

Meanwhile, the forced depression of market interest rates drives up asset prices such as, for instance, stocks for at least two reasons. First, expected future profits are discounted at a lower interest rate, thereby increasing their present value and thus market price. Second, lower interest rates reduce firms' cost of debt,

translating into higher profits – which also contributes to higher stock prices in the market place.

It should therefore not come as a surprise that the decline in market interest rates in recent years has indeed been accompanied by buoyant stock prices – as illustrated in the chart above. Just to point out one thing again: The decline in market interest rates is only one factor among many others which explain why stock prices have gone up in recent years. But it is a significant factor, and it contributes to the build-up of a price bubble.

WIPING OUT INVESTMENT RETURNS

As long as the boom keeps going, people rejoice – especially so when asset returns remain buoyant –, they do not question the underlying forces driving the 'make-believe world of prosperity'. However, a monetary policy of ever-lower interest rates can only go so far. For if central banks push their key interest rate and government bond yields to zero, they basically drag down all other investment returns with them.

This is because investors, in a desperate search for yields, would bid up the prices for assets such as, say, stocks, land, and real estate. As the purchase price of these assets rises relative to their intrinsic value, future investment returns diminish and in the extreme case converge towards the central bank's zero interest rate. At least, in theory, a central bank nailing down its key interest rate at zero would also drive investment returns of existing assets towards zero.

However, the division of labour would already start unravelling at a market interest rate of slightly higher than zero. The reason is that acting man – be it as a consumer or an entrepreneur – has a time preference that is always and everywhere positive, and so is its manifestation, the originary interest rate (or 'natural interest rate'). The originary interest rate is always and everywhere positive, it cannot fall to zero, let alone become negative.

A HELPING HAND FROM ABOVE?

Since central banks have established a rather firm grip on market interest rates, the chances are that the ongoing boom will continue – and it may well continue for much longer than most market observers expect at the current juncture. However, there should be little doubt that the longer the boom keeps going, the bigger the distortions in the economic and financial market system will become.

This, in turn, suggests that the severity of the crisis that must be expected to unfold at some point in the future – at the latest when all market interest rates have been pushed onto the zero line and investment returns have become negligible – is driven to ever-higher levels. This is something we do know from the Austrian Business Cycle Theory. But it is certainly not enough to come up with a reliable forecast.

It goes beyond the science of economics to come up with quantitative forecasts. What economics can do, however, is pointing out and making intelligible the conditions under which today's economic and financial systems work; in particular that market interest rate manipulation through central banks causes damages on a grand scale and will end badly – something that may only be prevented by a helping hand from above.



"I believe that it would be both risk-reducing and return-enhancing to consider adding gold to one's portfolio."

Bloomberg, 17 July 2019.

Precious metals prices

In US-dollar per ounce

	Gold		Silver		Platinum		Palladium	
I. Actual	1477.3		17.2		910.1		1855.2	
II. Gliding averages								
5 days	1472.6		17.2		910.6		1770.0	
10 days	1487.7		17.6		920.6		1781.0	
20 days	1489.6		17.6		910.7		1772.5	
50 days	1499.4		17.8		919.3		1686.0	
100 days	1477.4		17.1		884.4		1594.6	
200 days	1391.0		16.1		862.1		1508.5	
III. Estimate for end 2020	1690		22.9		930		1570	
Bandwidths	Low	High	Low	High	Low	High	Low	High
	1440	1840	16	26	780	990	1380	1650
⁽¹⁾	-3	25	-5	53	-14	9	-26	-11
IV. Annual averages								
2016	1242		17.0		985		617	
2017	1253		17.1		947		857	
2018	1268		15.8		880		1019	

In euro per ounce

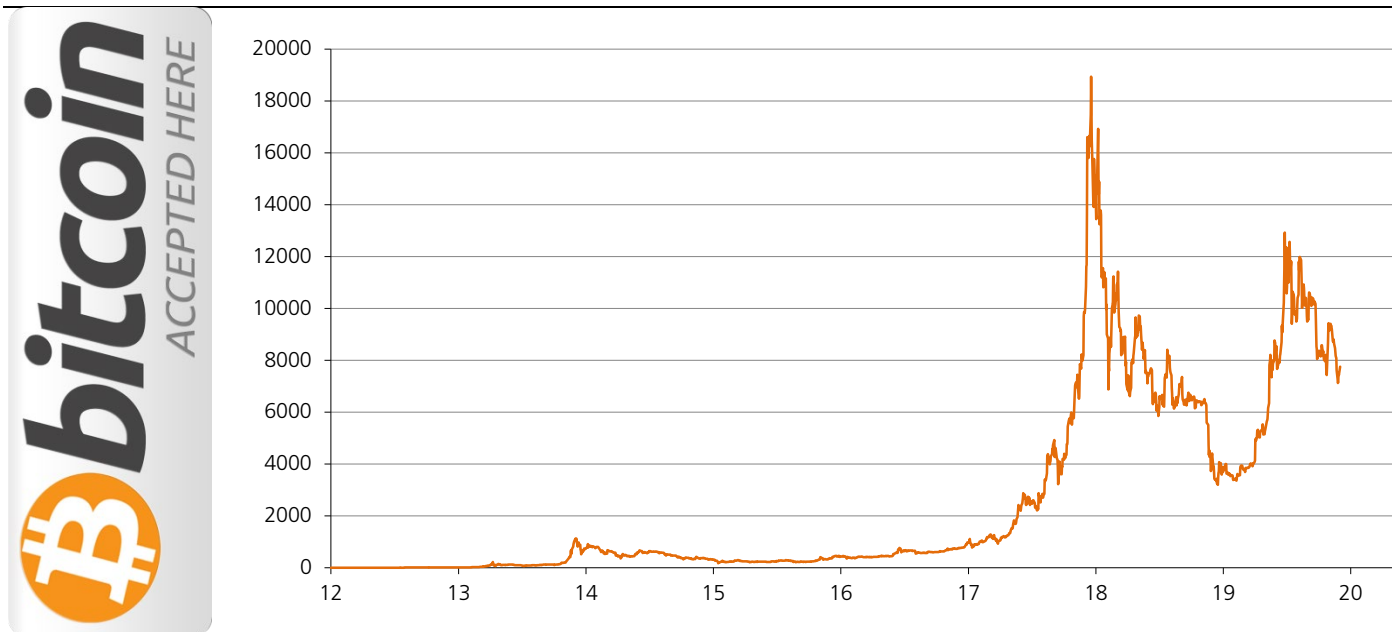
	Gold		Silver		Platinum		Palladium	
I. Actual	1333.2		15.5		821.4		1674.2	
II. Gliding averages								
5 days	1332.7		15.6		824.1		1601.8	
10 days	1340.6		15.8		829.6		1604.9	
20 days	1342.0		15.9		820.5		1596.8	
50 days	1358.1		16.1		832.7		1526.9	
100 days	1330.0		15.4		796.2		1435.5	
200 days	1244.2		14.4		771.0		1349.2	
III. Estimate for end 2020	1580		22		870		1470	
Bandwidths	Low	High	Low	High	Low	High	Low	High
	1350.0	1730.0	15.3	24.8	730.0	930.0	1290.0	1550.0
⁽¹⁾	1	30	-1	60	-11	13	-23	-7
IV. Annual averages								
2016	1120		15		888		557	
2017	1116		15		844		760	
2018	1072		13		743		863	

Source: Thomson Financial; own calculations and estimates. Numbers are rounded.

⁽¹⁾ Estimated return against actual price in percent.

Bitcoin, performance of various asset classes

Bitcoin in US dollars

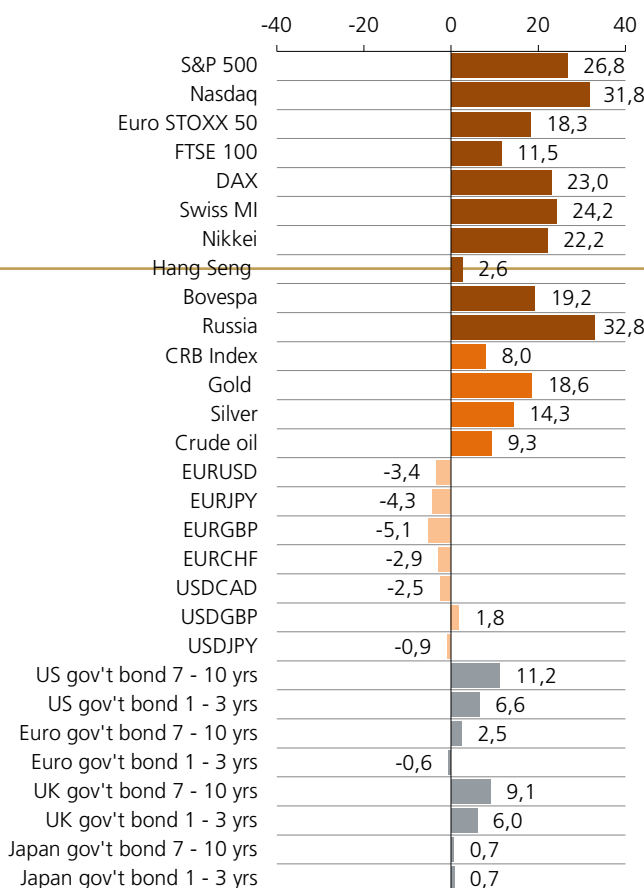
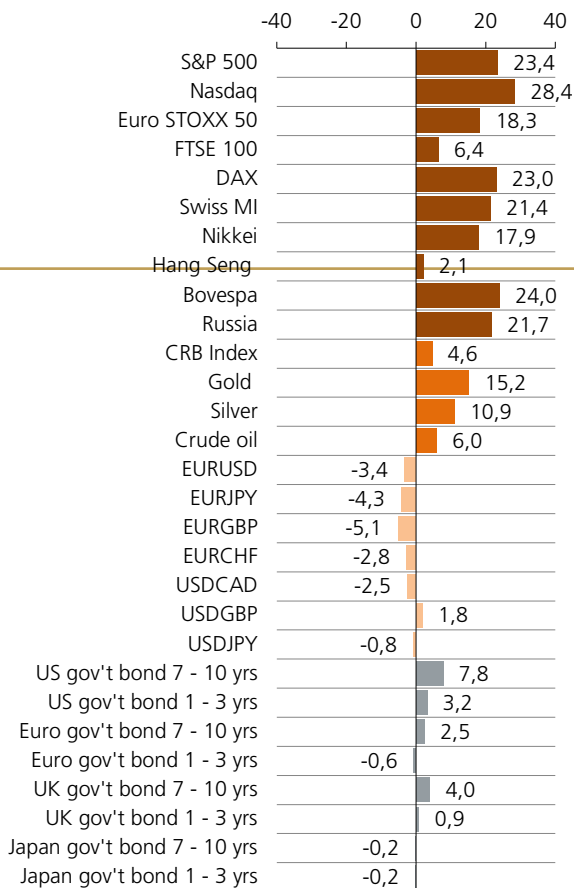


Source: Thomson Financial; graph by Degussa.

Performance of stocks, commodities, FX and bonds

(a) In national currencies

(b) In euro



Source: Thomson Financial; calculations by Degussa.

Articles in earlier issues of the *Degussa Market Report*

Issue	Content
5 December 2019	Why the Feared Crash Keeps Us Waiting
21 November 2019	Asset Price Inflation and the Price of Gold
7 November 2019	ETFs Drive Gold Demand
24 October 2019	The Inflationary Supply Of Unbacked US Dollars And The Price Of Gold
10 October 2019	Let's Get Physical With Gold And Silver
26 September 2019	The US Dollar Beast
12 September 2019	The Inflationary Tide That Lifts all Boats but One
29 August 2019	The Disaster of Negative Interest Rate Policy
15 August 2019	The Gold Bull Market Is Back
1 August 2019	Gold And Silver Prices – Get Going!
19 July 2019	Facebook's Fake Money
4 July 2019	It Looks Like A Gold Bull Market, It Feels Like A Gold Bull Market – Maybe It Is A Gold Bull Market?
19 June 2019	Good Money, Bad Money—And How Bitcoin Fits In
6 June 2019	Gold Outshines The US Dollar
23 May 2019	The Boom That Will Have It Coming
9 May 2019	The Crusade Against Risk
25 April 2019	A Sound Investment Rationale for Gold
11 April 2019	Be Prepared For All Possibilities. The Case For Gold
28 March 2019	Sword of Damocles Over Asset Prices
14 March 2019	The Big Central Banks Increase the Case for Gold
28 February 2019	The Fed Takes Full Control of the Bond Market – And Raises The Value of Gold
14 February 2019	Everything You Always Wanted to Know About Karl Marx and Central Banking (*But Were Afraid To Ask)
1 February 2019	Pay Attention, Gold Investor: 'This Time is not Different'
17 January 2019	US Interest Rate Down, Price of Gold up
20 December 2018	Gold Money in a Digitalised World Economy
10 December 2018	The Fed Supports Gold
23 November 2018	The Fed Is Not Our Saviour
9 November 2018	The Missing Fear – And The Case For Gold
26 October 2018	President Trump is right: The Fed Is A Big Problem
12 October 2018	Here Goes The Punch Bowl
28 September 2018	The Fed's Blind Flight
14 September 2018	How Fed Policy Relates to the Price of Gold
31 August 2018	Central Banks Enrich a Select Few at the Expense of Many
17 August 2018	The US dollar And Gold – Is this Time Different?
20 July 2018	Not All Is Well In Financial Markets
22 June 2018	Euro-Banks In Trouble. A Case for Gold
8 June 2018	Demand for Gold ETFs up Despite Higher Interest Rates
25 May 2018	Mind The Interest Rate
11 May 2018	Mr Buffett on Gold – Viewed Differently

The Degussa Marktreport (German) and the Degussa Market Report (English) are available at:
www.degussa-goldhandel.de/de/marktreport.aspx.

Disclaimer

Degussa Goldhandel GmbH, Frankfurt am Main, is responsible for creating this document. The authors of this document certify that the views expressed in it accurately reflect their personal views and that their compensation was not, is not, nor will be directly or indirectly related to the recommendations or views contained in this document. The analyst(s) named in this document are not registered/qualified as research analysts with FINRA and are therefore not subject to NASD Rule 2711.

This document serves for information purposes only and does not take into account the recipient's particular circumstances. Its contents are not intended to be and should not be construed as an offer or solicitation to acquire or dispose of precious metals or securities mentioned in this document and shall not serve as the basis or a part of any contract.

The information contained in this document was obtained from sources that Degussa Goldhandel GmbH holds to be reliable and accurate. Degussa Goldhandel GmbH makes no guarantee or warranty with regard to correctness, accuracy, completeness or fitness for a particular purpose.

All opinions and views reflect the current view of the author or authors on the date of publication and are subject to change without notice. The opinions expressed herein do not necessarily reflect the opinions of Degussa Goldhandel GmbH. Degussa Goldhandel GmbH is under no obligation to update, modify or amend this document or to otherwise notify its recipients in the event that any circumstance mentioned or statement, estimate or forecast set forth in this document changes or is subsequently rendered inaccurate.

The past performance of financial instruments is not indicative of future results. No assurance can be given that any views described herein would yield favorable returns on investments. There is the possibility that said forecasts in this document may not come to pass owing to various risk factors. These include, without limitation, market volatility, sector volatility, corporate actions, the unavailability of complete and accurate information and/or the circumstance that underlying assumptions made by Degussa Goldhandel GmbH or by other sources relied upon in the document should prove inaccurate.

Neither Degussa Goldhandel GmbH nor any of its directors, officers or employees shall be liable for any damages arising out of or in any way connected with the use of this document and its content.

Any inclusion of hyperlinks to the websites of organizations in this document in no way implies that Degussa Goldhandel GmbH endorses, recommends or approves of any material on or accessible from the linked page. Degussa Goldhandel GmbH assumes no responsibility for the content of and information accessible from these websites, nor for any consequences arising from the use of such content or information.

This document is intended only for use by the recipient. It may not be modified, reproduced, distributed, published or passed on to any other person, in whole or in part, without the prior, written consent of Degussa Goldhandel GmbH. The manner in which this document is distributed may be further restricted by law in certain countries, including the USA. It is incumbent upon every person who comes to possess this document to inform themselves about and observe such restrictions. By accepting this document, the recipient agrees to the foregoing provisions.

Imprint

Marktreport is published every 14 days on Fridays and is a free service provided by Degussa Goldhandel GmbH.

Deadline for this edition: 5 December 2019

Publisher: Degussa Goldhandel GmbH, Kettenhofweg 29, 60325 Frankfurt, Tel.: (069) 860068-0, Fax: (069) 860068-222

E-Mail: info@degussa-goldhandel.de, Internet: www.degussa-goldhandel.de

Editor in chief: Dr. Thorsten Polleit

Degussa Market Report is available on the Internet at: <http://www.degussa-goldhandel.de/de/marktreport.aspx>

Retail buying and selling outlets in Germany:

Frankfurt (shop & showroom): Kettenhofweg 29 · 60325 Frankfurt
Phone: +49-69-860 068 – 100 · frankfurt@degussa-goldhandel.de

Berlin (shop & showroom): Fasanenstraße 70 · 10719 Berlin
Phone: +49-30-8872838 – 0 · berlin@degussa-goldhandel.de

Hamburg (shop & showroom): Ballindamm 5 · 20095 Hamburg
Phone: +49-40-329 0872 – 0 · hamburg@degussa-goldhandel.de

Hanover (shop & showroom): Theaterstraße 7 · 30159 Hanover
Phone: +49-511-897338 – 0 · hannover@degussa-goldhandel.de

Cologne (shop & showroom): Gereonstraße 18-32 · 50670 Cologne
Phone: +49-221-120 620 – 0 · koeln@degussa-goldhandel.de

Munich (shop & showroom): Promenadeplatz 12 · 80333 Munich
Phone: +49-89-13 shop & showroom 92613 – 18 · muenchen@degussa-goldhandel.de

Munich (Old Gold Centre): Promenadeplatz 10 · 80333 Munich
Phone +49-89-1392613 – 10 · muenchen-altgold@degussa-goldhandel.de

Nuremberg (shop & showroom): Prinzregentenufer 7 · 90489 Nuremberg
Phone: +49-911-669 488 – 0 · nuernberg@degussa-goldhandel.de

Pforzheim (refinery): Freiburger Straße 12 · 75179 Pforzheim
Phone: +49-7231-58795 – 0 · pforzheim@degussa-goldhandel.de

Stuttgart (shop & showroom): Kronprinzstraße 6 · 70173 Stuttgart
Phone: +49-711-305893 – 6 · stuttgart@degussa-goldhandel.de

Retail buying and selling outlets around the world:

Zurich (shop & showroom): Bleicherweg 41 · 8002 Zurich
Phone: +41-44-40341 10 · zuerich@degussa-goldhandel.ch

Geneva (shop & showroom): Quai du Mont-Blanc 5 · 1201 Genève
Phone: 0041-22 908 14 00 · geneve@degussa-goldhandel.ch

London Sharps Pixley Ltd (member of the Degussa Group)
Phone +44-207 871 0532 · www.sharpspixley.com

Madrid (shop & showroom): Calle de Velázquez 2 · 28001 Madrid
Phone: +34-911 982 900 · info@degussa-mp.es

Degussa 
GOLD UND SILBER.

Frankfurt Headquarters

Kettenhofweg 29 · 60325 Frankfurt

Phone: +49-69-860 068 – 0 · info@degussa-goldhandel.de