

PLATINUM 2011

Interim Review

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15th November 2011

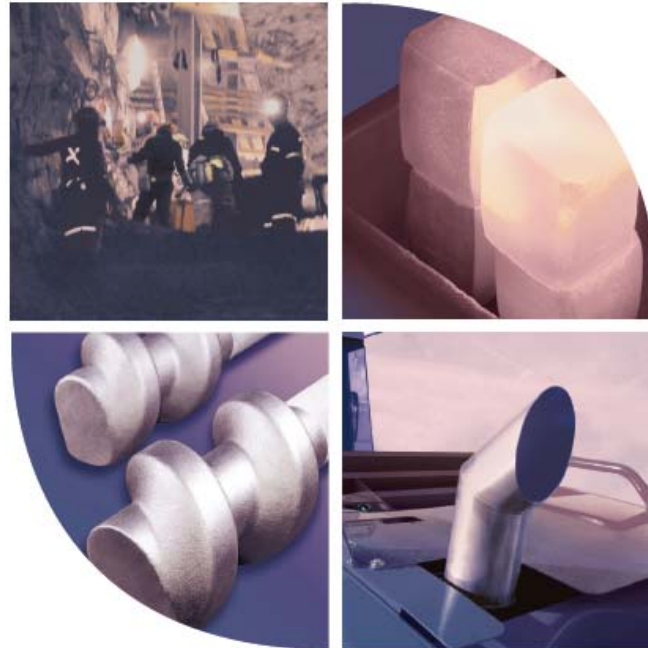

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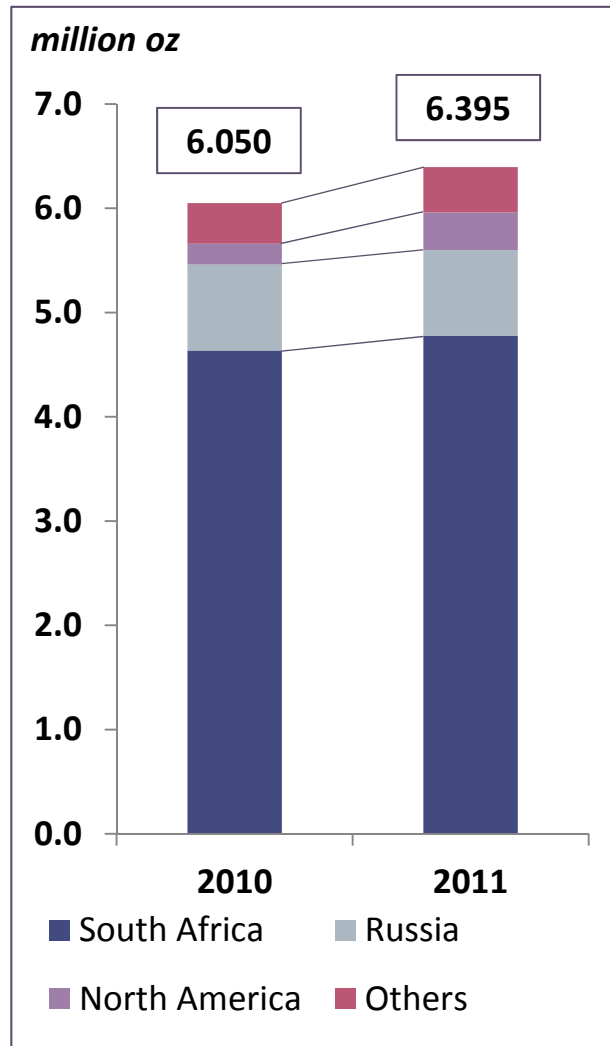
Platinum: key features 2011

- Platinum market to be in surplus by 195,000 oz
- Growth in supplies coming mainly from outside South Africa
- Heavy duty diesel drives platinum demand in autocatalysts
- Record industrial demand led by glass and petroleum refining sectors
- China and India provide growth in jewellery demand
- Positive investment demand once again

Platinum supply and demand

| '000 oz | 2010 | 2011 | % change |
|---------------------|---------|---------|----------|
| Supply | 6,050 | 6,395 | 5.7 |
| Gross Demand | 7,905 | 8,080 | 2.2 |
| Recycling | (1,830) | (1,880) | 2.7 |
| Net Demand | 6,075 | 6,200 | 2.1 |
| Movements in Stocks | (25) | 195 | |

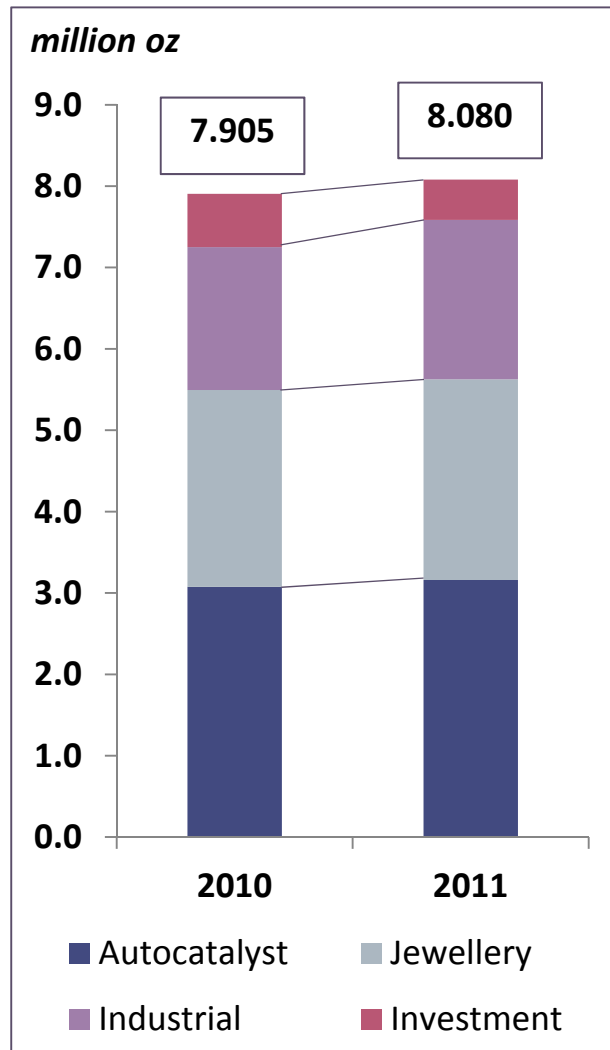
Platinum supplies to rise by 5.7%



Growth in supplies mainly from outside South Africa, particularly North America and Zimbabwe

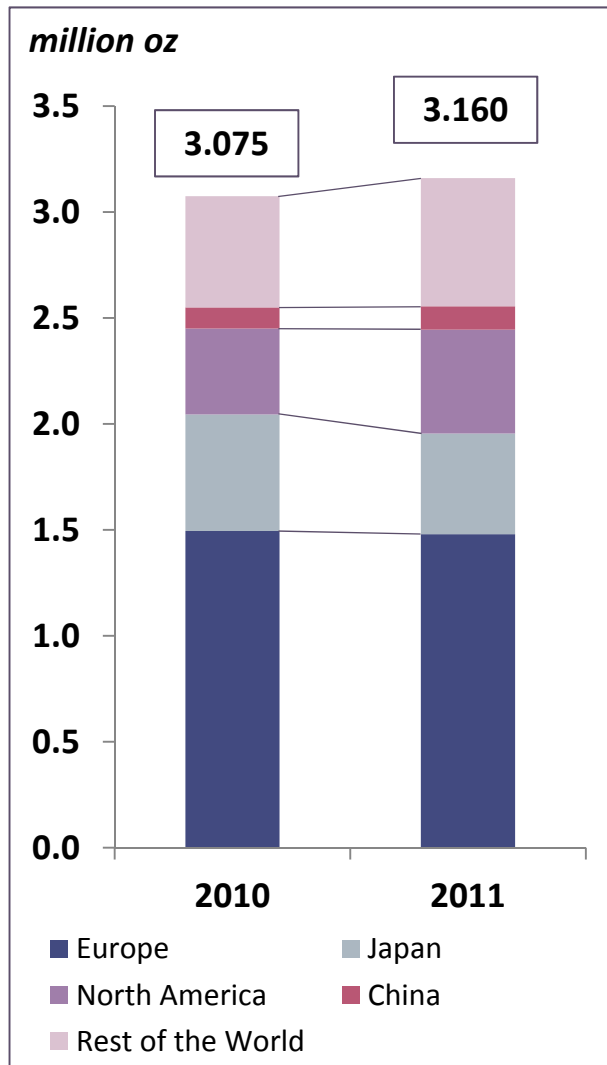
- SA supplies to rise by 3%
- Russian supplies to be flat
- North American supplies to rise by 80% to 360,000 oz
- Zimbabwe supplies to grow by 20%

Gross platinum demand to rise by 2.2%



- Platinum demand in autocatalysts to rise to a three-year high of 3.16 million ounces
- Record industrial demand of 1.96 million ounces forecast
- Jewellery demand to grow modestly
- Investment demand to weaken, but stay positive

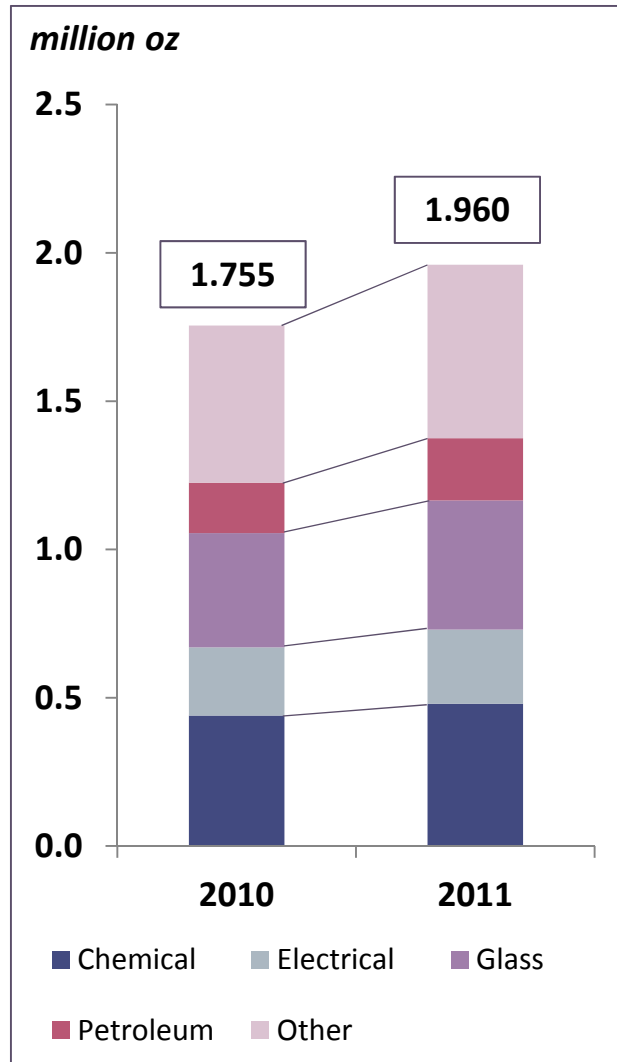
Platinum demand: Gross autocatalyst



Worldwide demand for platinum in autocatalysts to rise by 2.8%:

- European demand to soften due to substitution by palladium
- Japanese demand affected by March disaster
- North American demand to grow strongly led by light and heavy duty diesel manufacture
- Strong growth in auto production in the Rest of the World region

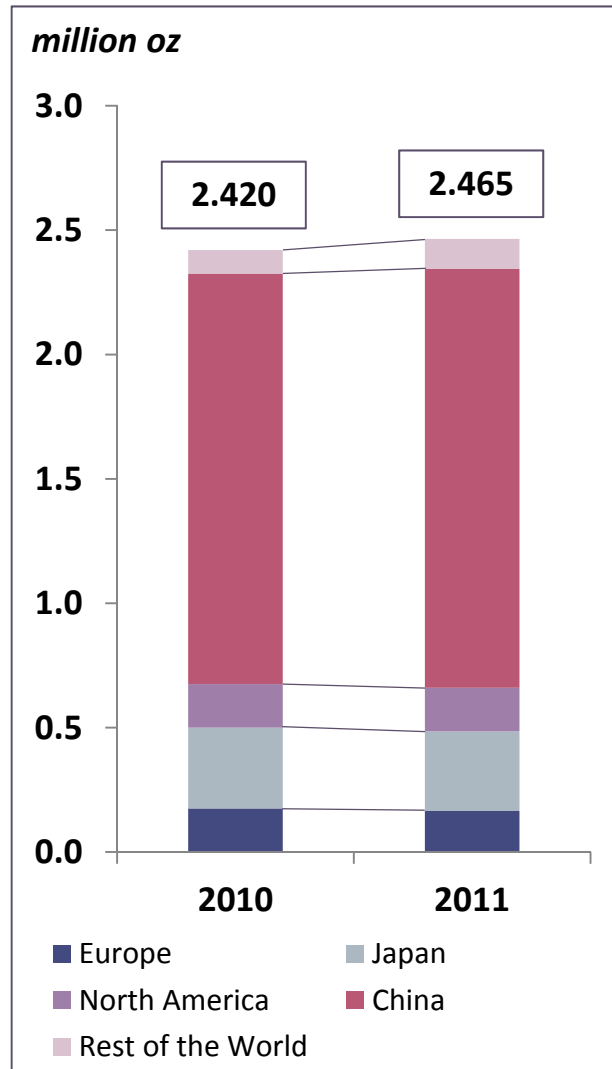
Industrial platinum demand to rise by 11.7%



Industrial purchasing of platinum to reach record highs driven by:

- New capacity in the glass manufacturing sector
- New petroleum refining capacity
- Strong chemical and electrical demand
- New growth areas: non-road mobile machinery

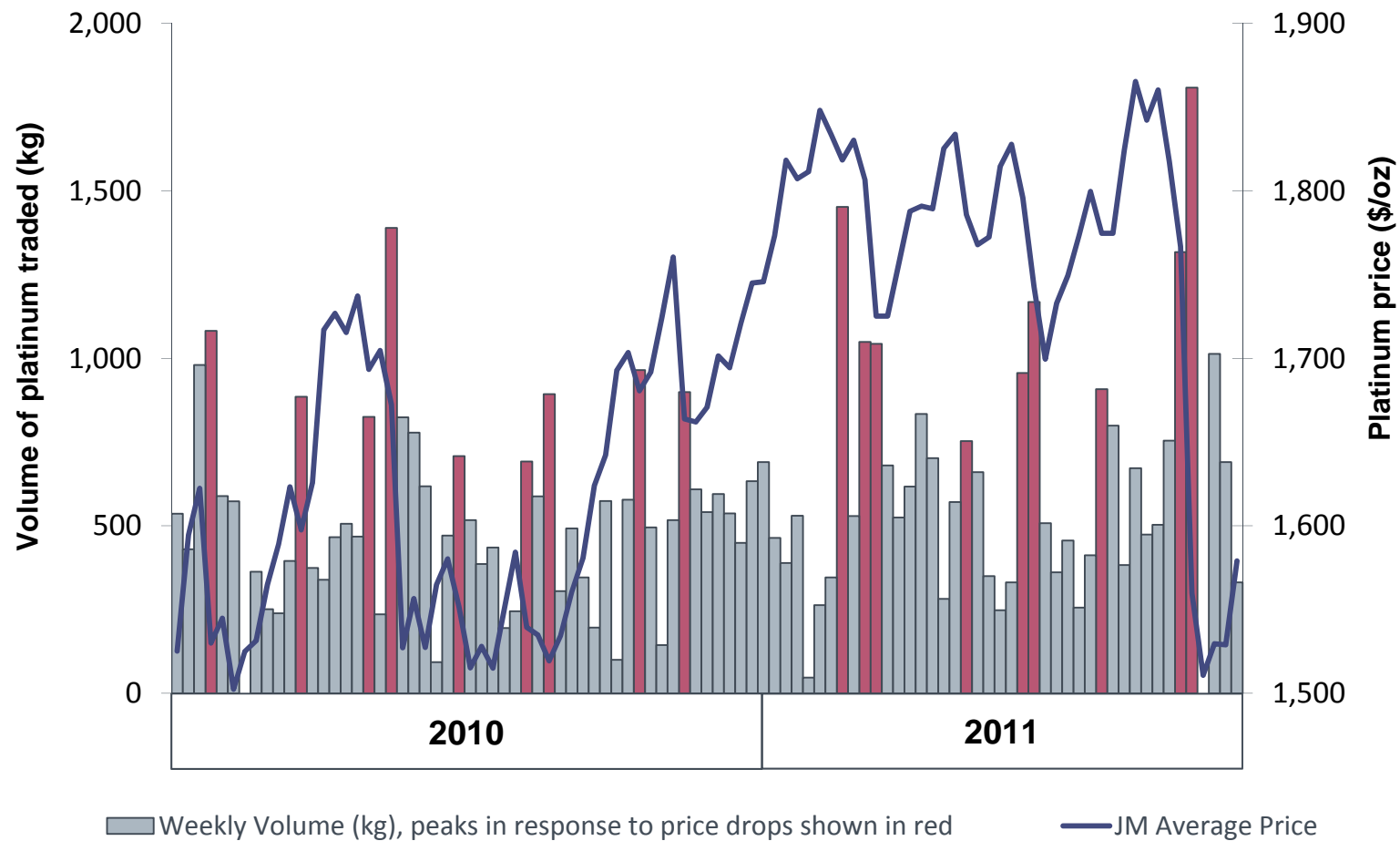
Platinum jewellery demand to rise slightly



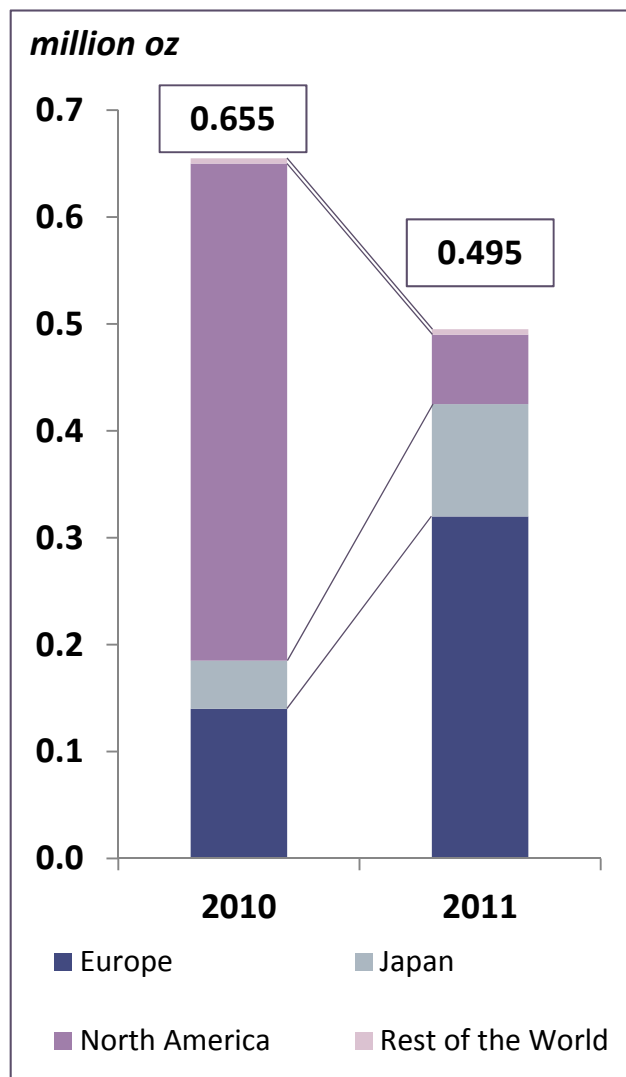
Gross platinum jewellery demand to rise by 1.9%

- Demand to rise modestly in China despite competition from gold
- Demand to remain flat in Japan and North America
- European demand to soften
- Rapid growth in India from a low base

SGE weekly platinum trading volumes



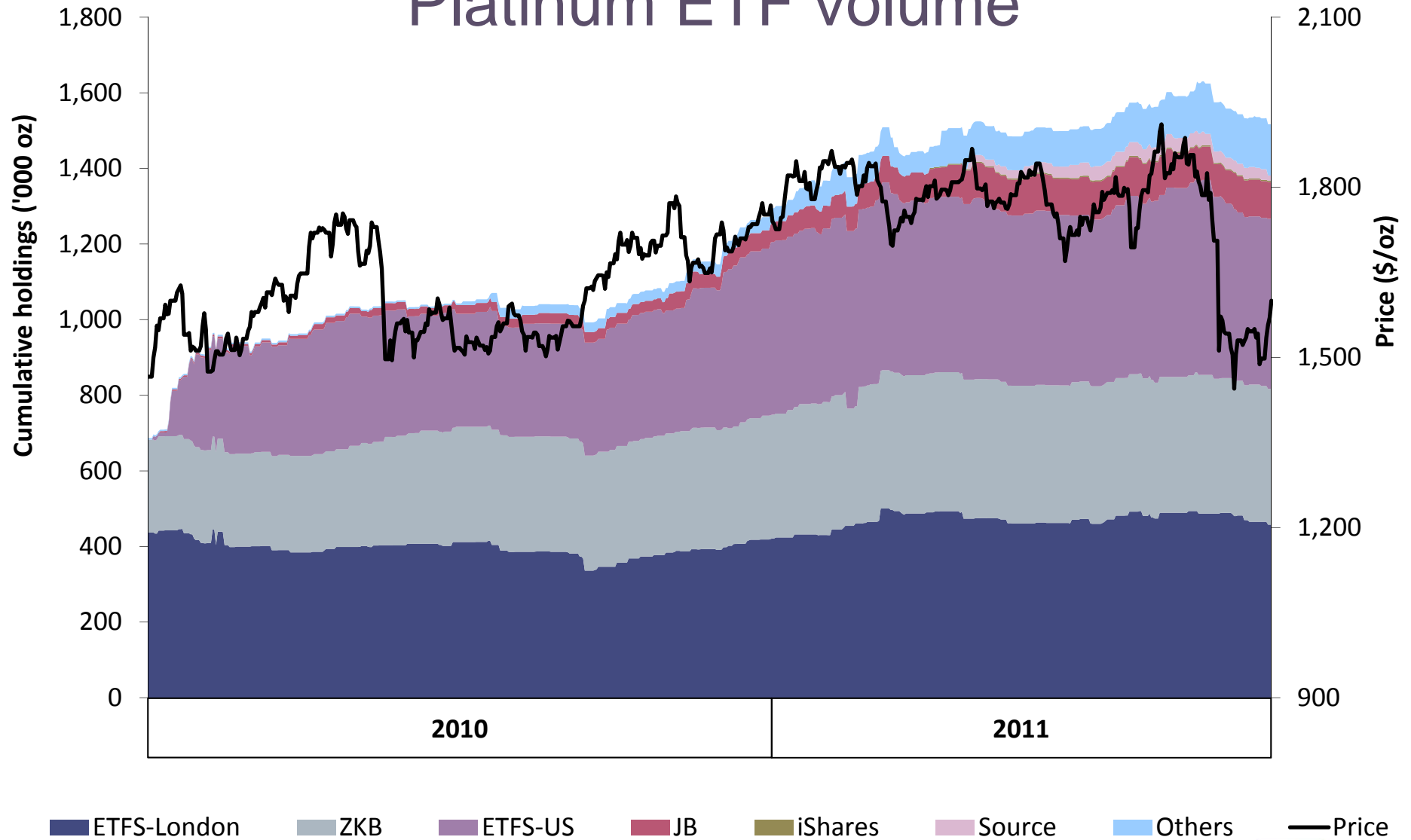
Platinum investment demand to fall



Investment demand to be 160,000 oz lower than in 2010

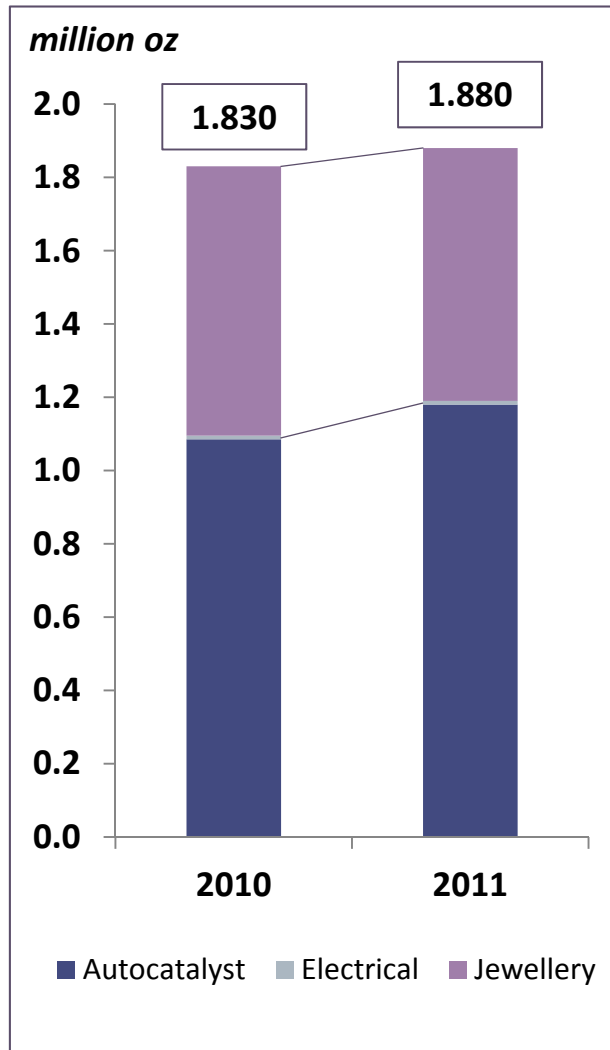
- Price volatility and yen strength promotes large bar demand in Japan
- Growth in European ETF demand bolstered by launch of new funds
- Sharp fall in demand for ETFs in North America but still positive
- Limited coin production

Platinum ETF volume



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Platinum recycling to rise by 2.7%

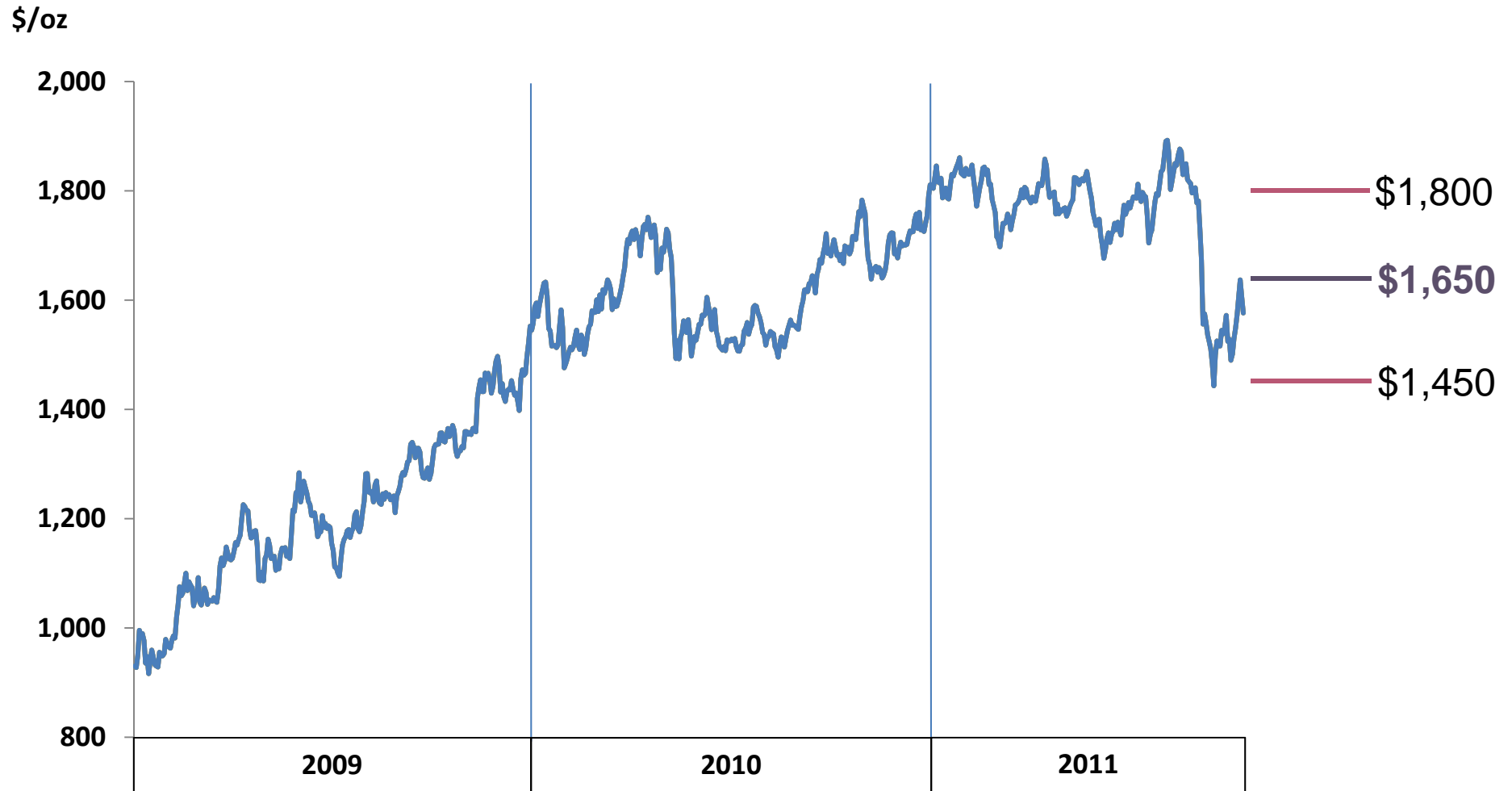


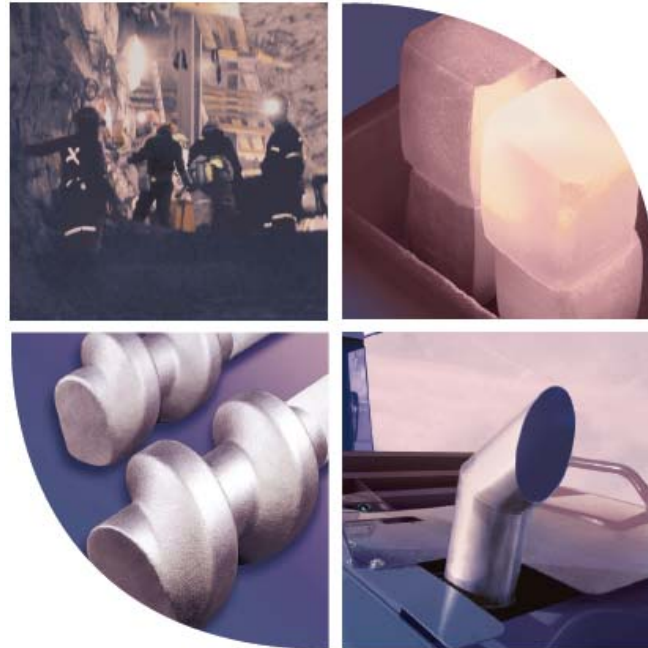
- Higher volumes of platinum recovered from end-of-life vehicles, particularly diesels
- Jewellery recycling to reduce overall, due to lower returns from manufacturer and retail stock in China
- More recycling of old consumer jewellery pieces in Japan

Platinum outlook

- Rate of growth in supply will depend on South Africa and Zimbabwe mining companies achieving expansion targets
- Platinum to weather weak economic growth and consumer spending in 2012 due to strong demand drivers:
 - Automotive demand for platinum to be supported by heavy duty vehicle fleet renewals, recovery in Japanese vehicle output
 - Growth in electronics and non-road emissions control demand sectors
 - Jewellery demand to be maintained by strength of China market
- Platinum will be in surplus again in 2012 but not by a significant amount

Platinum price forecast: the next six months





Palladium

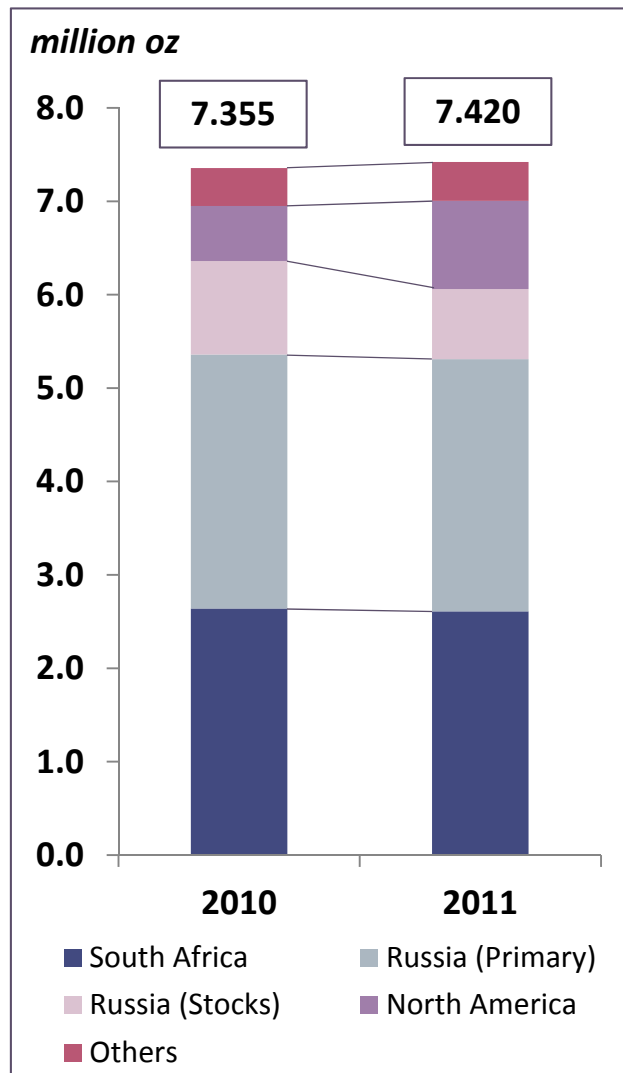
Palladium: key features 2011

- Palladium market to be in surplus by 725,000 oz due to sale of Russian state stocks and negative net investment
- Rise in primary mined supplies, especially in North America and Zimbabwe
- Growth in autocatalyst demand for palladium due to higher output, substitution and new legislation
- Strong demand for electrical goods and textiles driving palladium in industrial applications
- Weaker jewellery demand

Palladium supply and demand

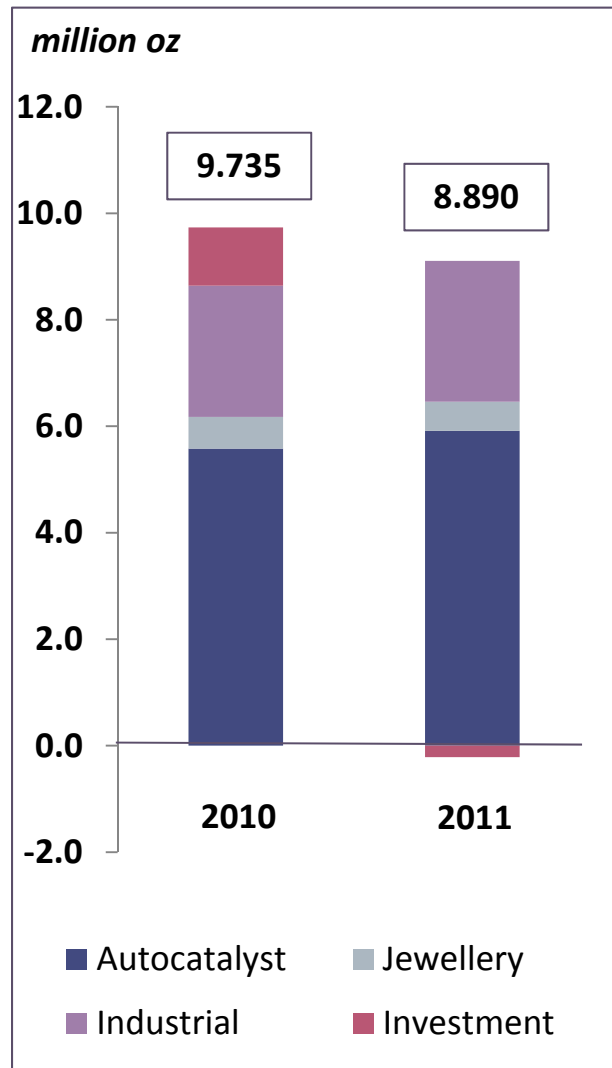
| '000 oz | 2010 | 2011 | % change |
|---------------------|---------|---------|----------|
| Supply | 7,355 | 7,420 | 0.9 |
| Gross Demand | 9,735 | 8,890 | (8.7) |
| Recycling | (1,850) | (2,195) | 18.6 |
| Net Demand | 7,885 | 6,695 | (15.1) |
| Movements in Stocks | (530) | 725 | |

Palladium supplies to rise



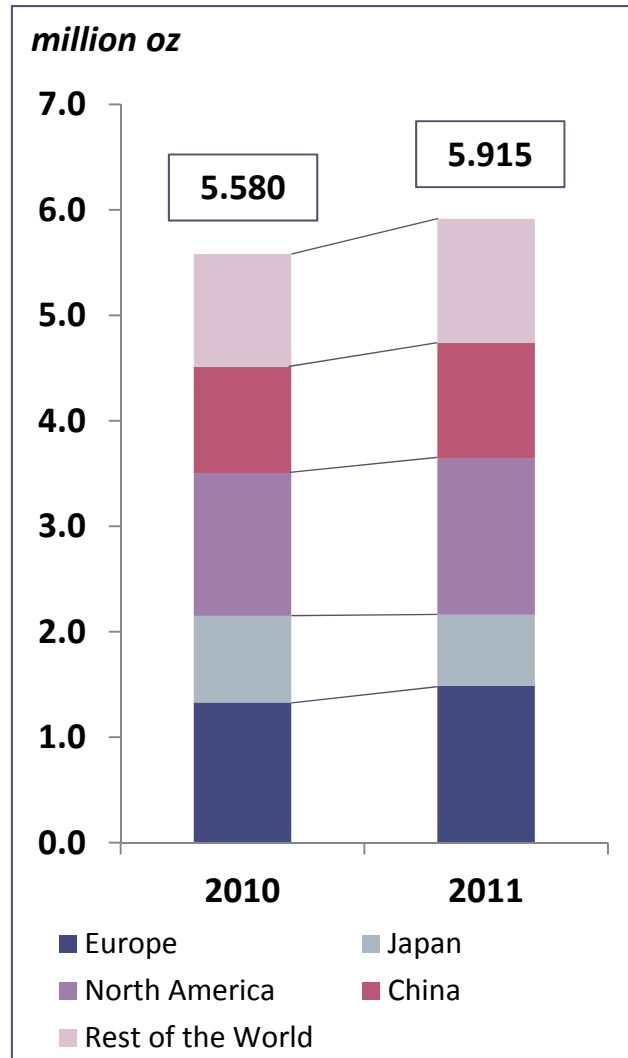
- South African supplies to decline slightly
- Russian primary mined supplies to remain flat
- Russian state stock shipments to take place, but at a lower level than the past three years
- Growth in supplies from North America and Zimbabwe

Gross palladium demand to fall by 8.7%



- Autocatalyst demand to rise to 5.92 million ounces
- Industrial demand to grow to 2.65 million ounces
- Jewellery demand to decline
- Investment sector to be a net 'supplier' of palladium to the market

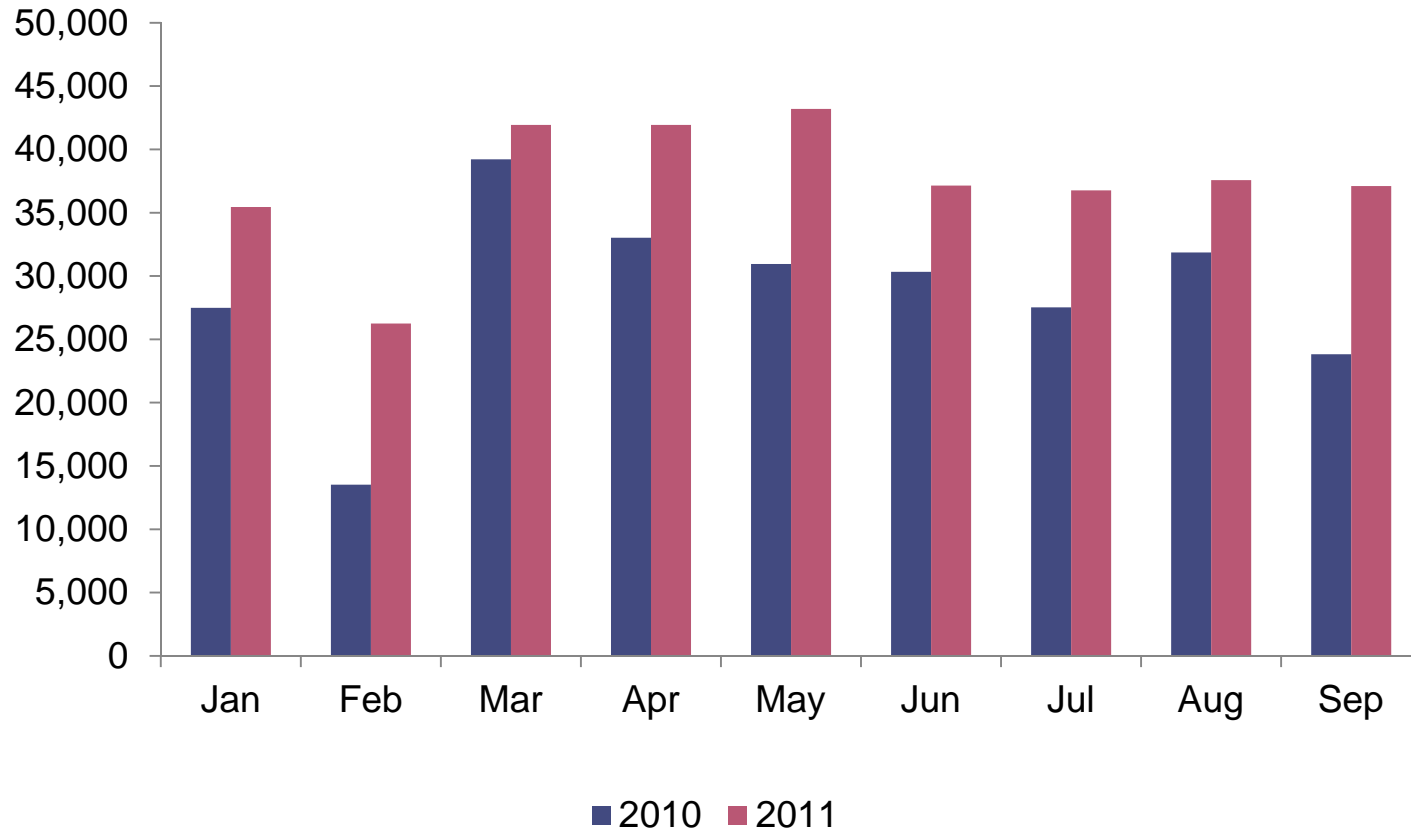
Gross palladium autocatalyst demand to rise by 6.0%



- European demand to rise due to use in diesels and growth in exports of (gasoline) vehicles
- Japanese demand to fall due to disruption from disaster
- North America demand to rise following strong H1 2011
- Growth in China due to introduction of China 4 emissions standards

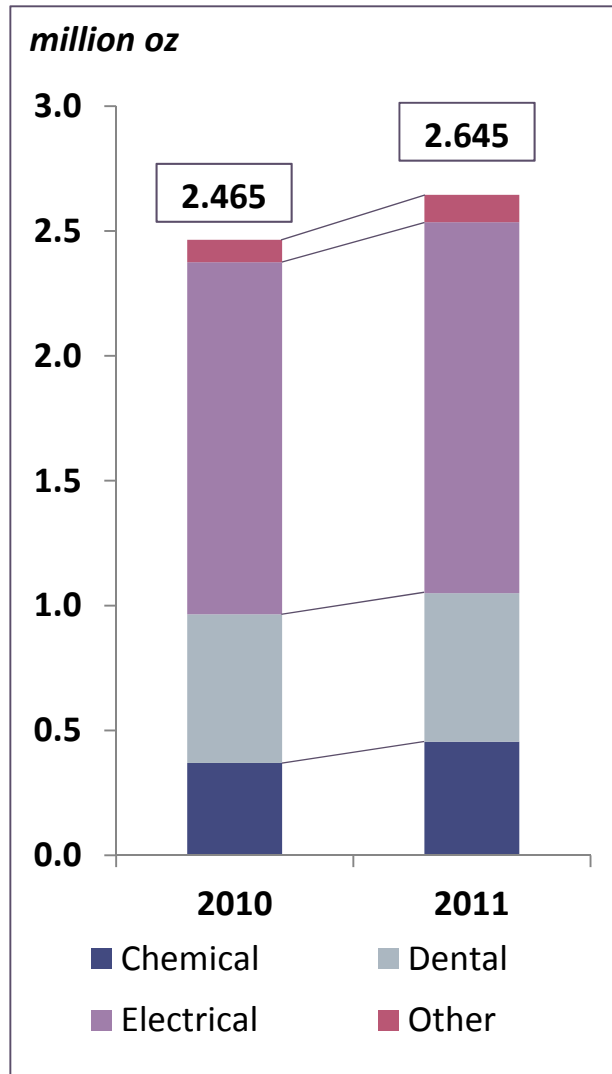
Imports of European-made passenger cars to China

vehicles



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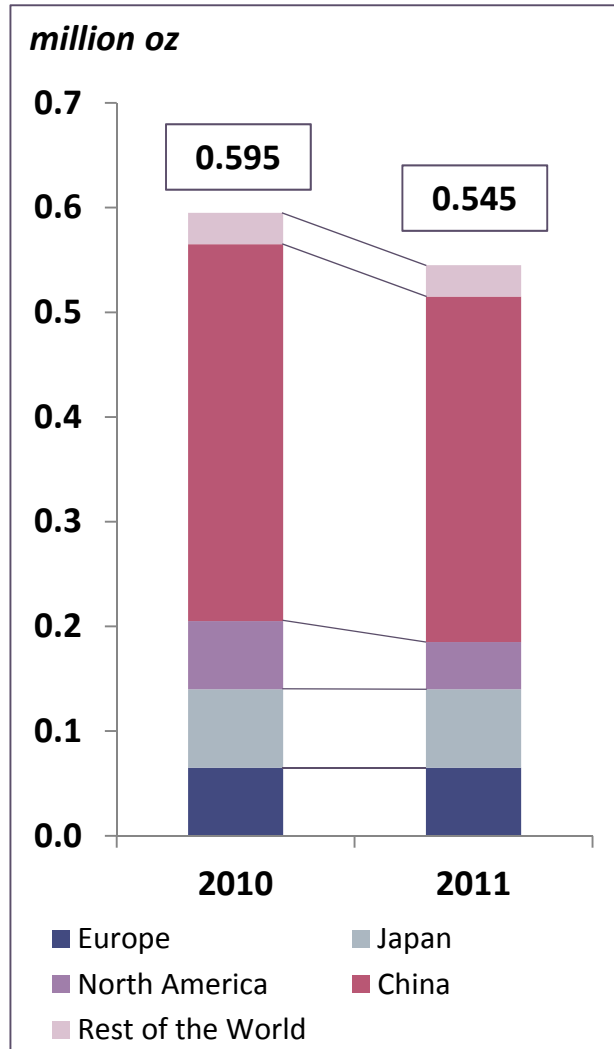
Industrial palladium demand to grow by 7.3%



A return to pre-recession levels is forecast:

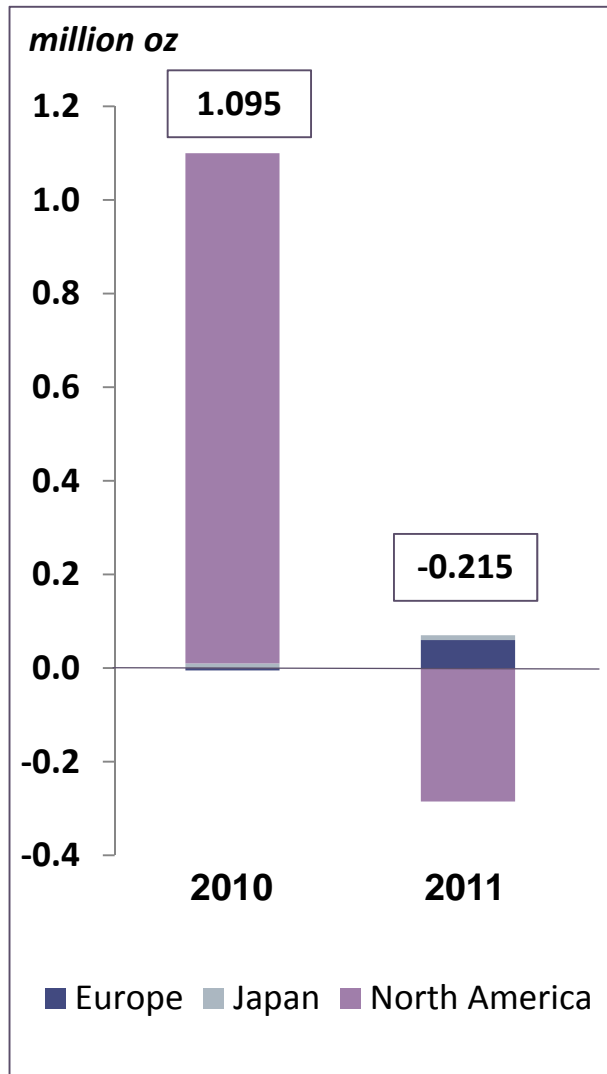
- Downstream demand for products driving purchases in chemical applications by 23%
- Demand for palladium in electronic components to remain robust
- Dental demand to be flat

Gross palladium jewellery demand to fall by 8.4%



- Lower demand in China due to:
 - Lack of effective marketing
 - Higher prices
 - Low consumer interest
 - Fewer manufacturers
- Flat demand in Europe due to price, lower demand in North America due to competition

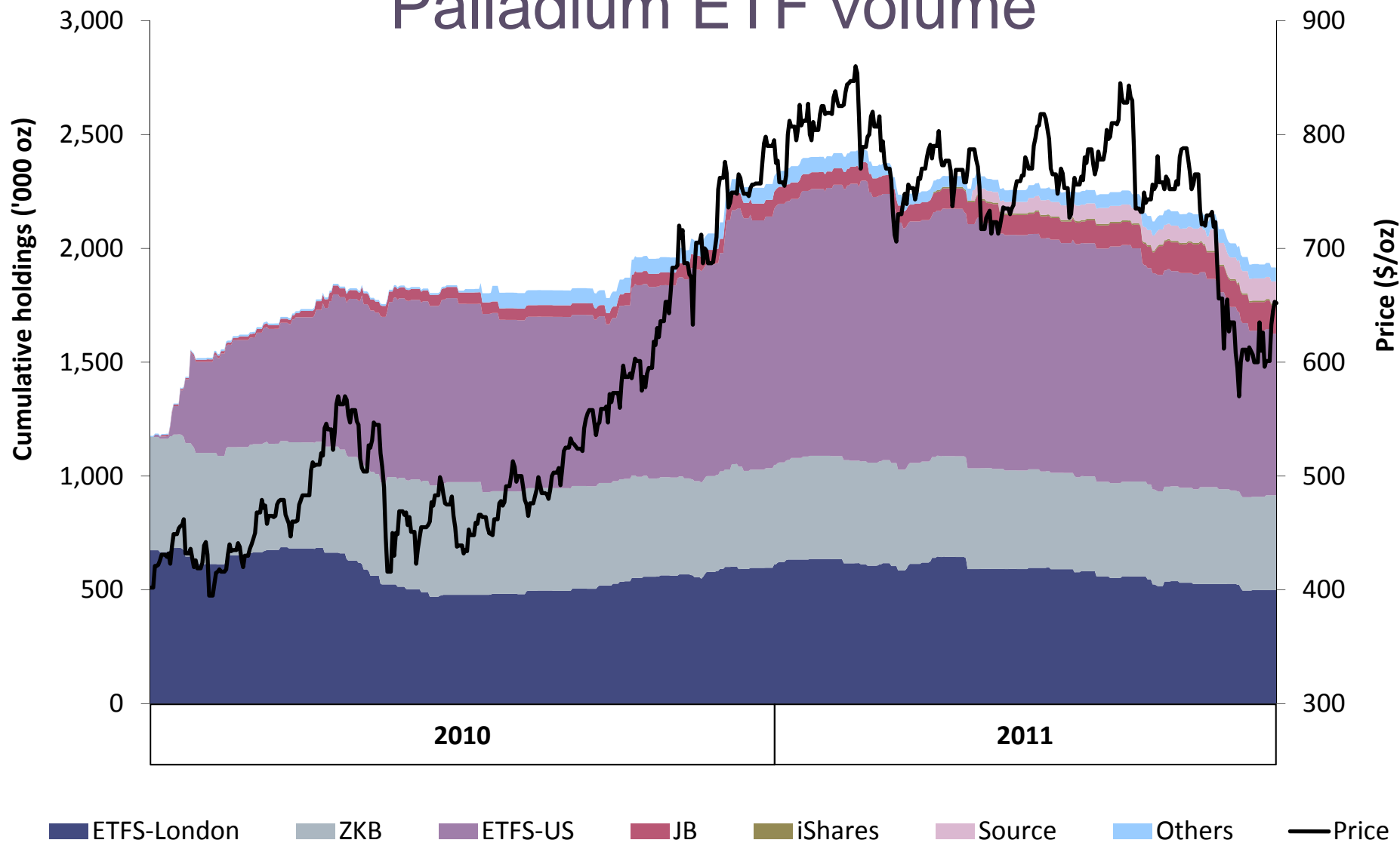
Palladium investment demand to be negative



Weaker investor sentiment for palladium in 2011:

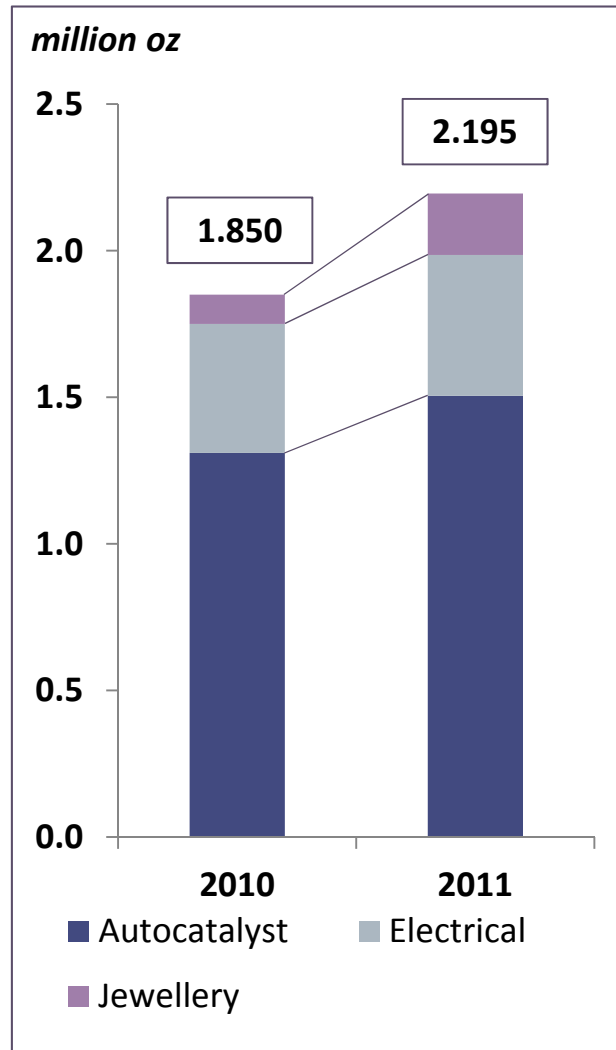
- Net liquidation in the US ETF
- Net investment in newer European ETFs have offset declines in the more established funds

Palladium ETF volume



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Palladium recycling to rise by 18.6%

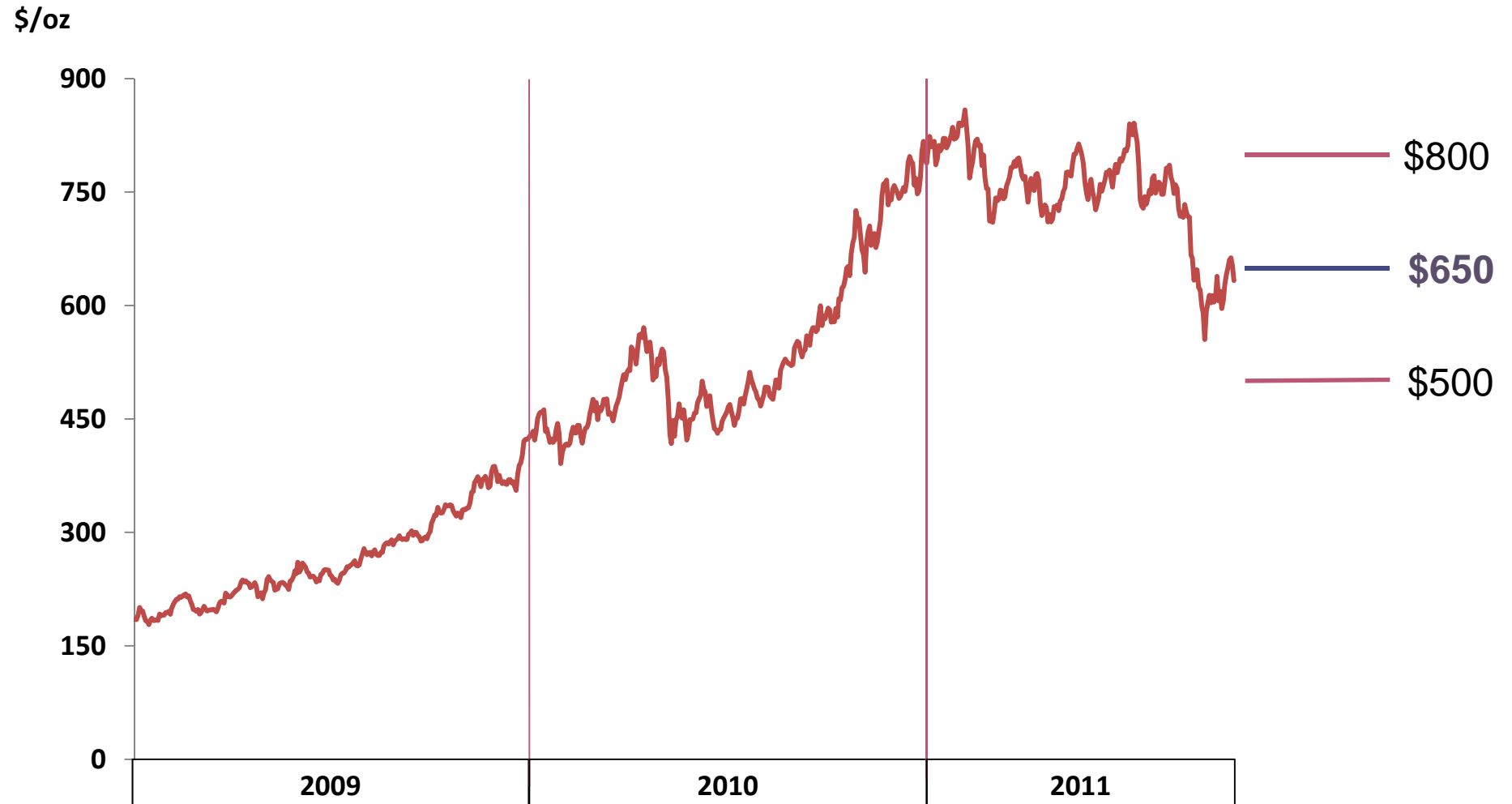


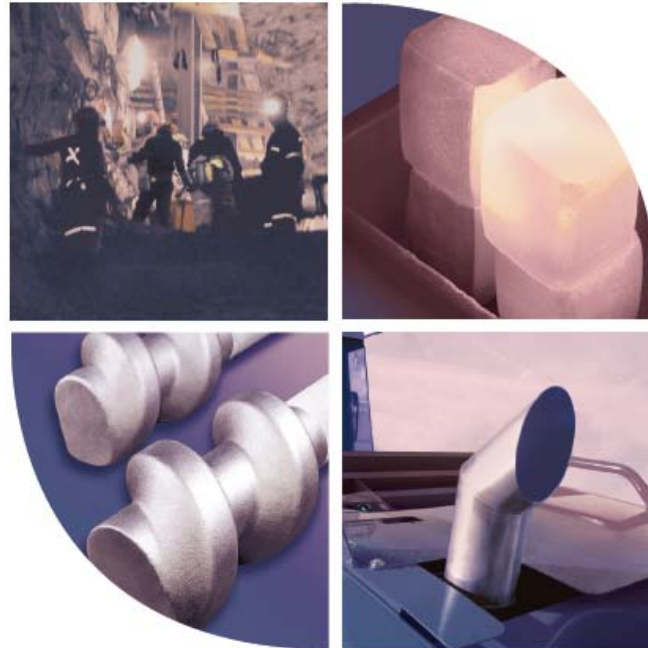
- Boost to palladium recovery from autocatalysts due to:
 - Higher sales of vehicles
 - More highly loaded catalysts entering the refining stream
- More electronic scrap being recycled in Europe
- Higher jewellery recycling from manufacturers and retailers in China

Palladium outlook

- Tighter supplies in 2012 due to lower Russian state stock sales, partly offset by higher output from South Africa
- Auto demand growth in 2012 to be at least as strong as this year due to greater use in diesel catalysts, and growth in vehicle output in Asia and the Americas
- Expansion of chemical production capacity in China and robust purchasing of electronic goods to drive industrial demand for palladium
- Investment demand to be positive
- Even with Russian stock sales and increased autocatalyst recycling the palladium market is likely to be in deficit next year

Palladium price forecast: the next six months



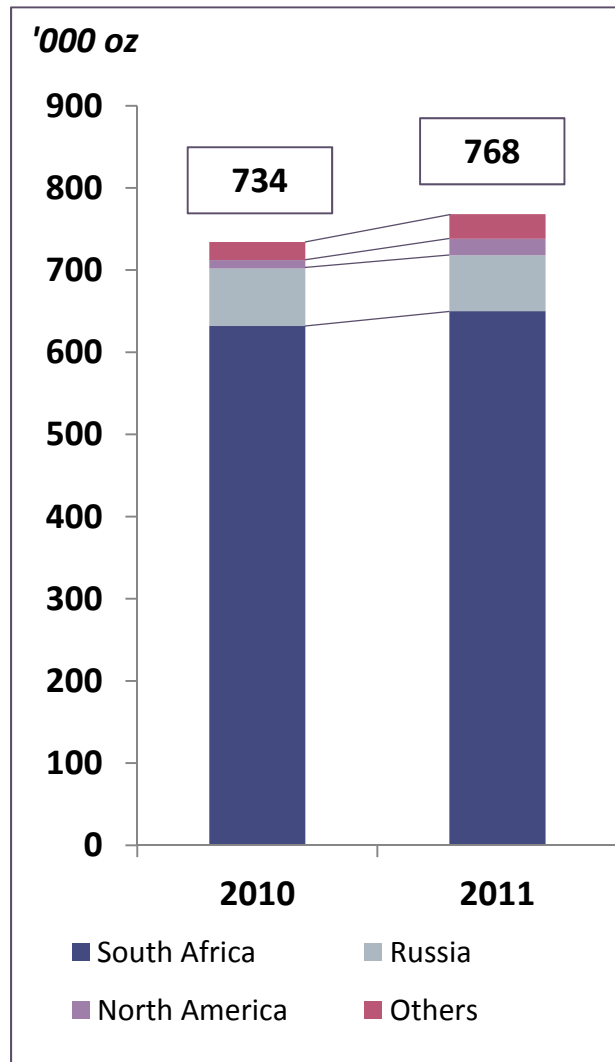


Rhodium

Rhodium supply and demand

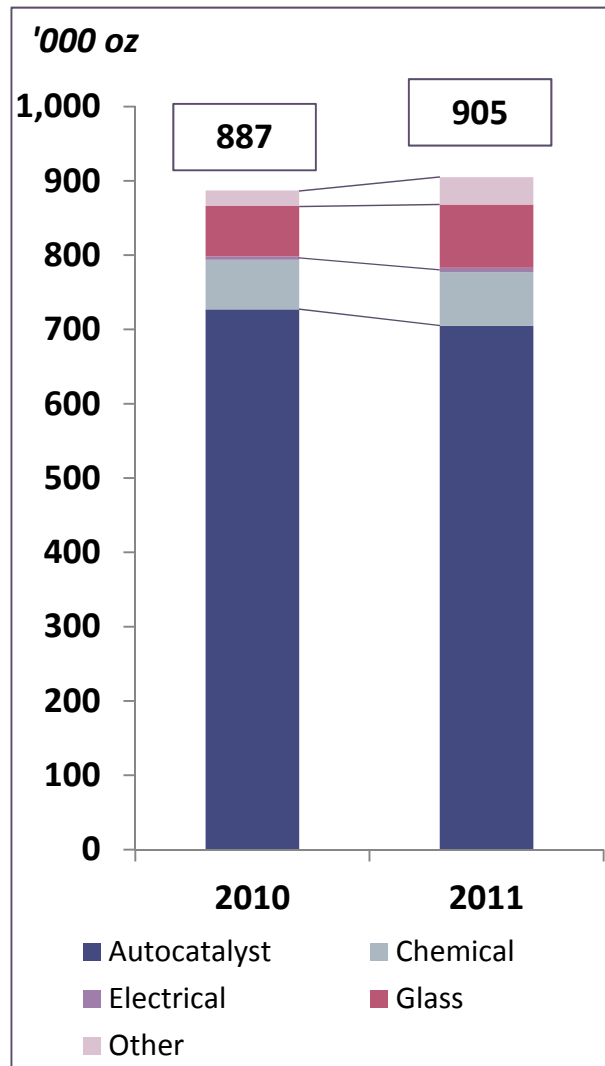
| '000 oz | 2010 | 2011 | % change |
|---------------------|-------|-------|----------|
| Supply | 734 | 768 | 4.6 |
| Gross Demand | 887 | 905 | 2.0 |
| Recycling | (241) | (260) | 7.9 |
| Net Demand | 646 | 645 | 0.0 |
| Movements in Stocks | 88 | 123 | |

Rhodium supplies to rise by 4.6%



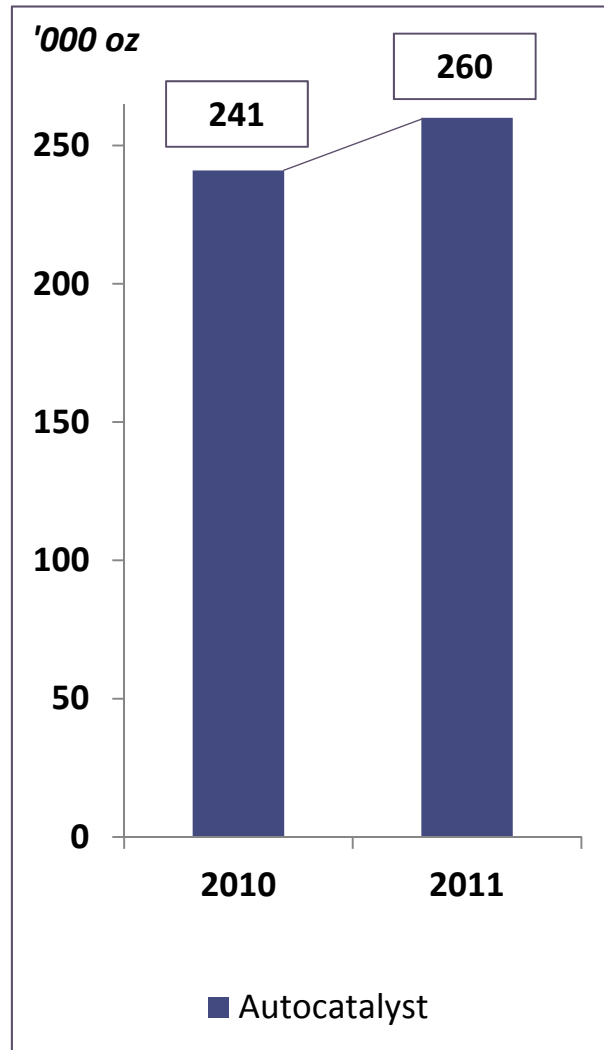
- Higher refined output expected from South African producers
- Flat supplies from Russia
- North American producers to ramp up to full production
- Additional supplies from new operations in Zimbabwe

Gross rhodium demand to rise modestly



- Autocatalyst demand to decline by 3% due to thrifting, lower gasoline share in Europe and disruption in Japan
- 25% rise in demand for rhodium in the glass sector due to capacity expansions in LCD and alloy switching in glass fibre manufacturing

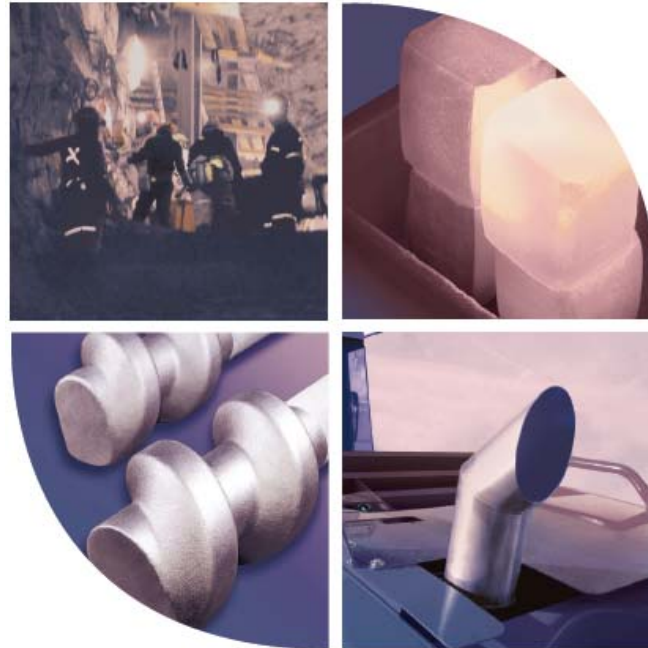
Rhodium autocatalyst recycling



- Higher recycling of rhodium in autocatalysts as more highly-loaded rhodium-containing end-of-life vehicles enter the recycling stream
- Recovery from spent autocatalysts, together with higher supplies, expected to keep the rhodium market in surplus

Rhodium outlook

- Supplies forecast to increase in 2012 due to higher output in South Africa and Zimbabwe. Higher recycling levels are expected
- Return to full vehicle production in Japan will be positive for rhodium demand in autocatalysts
- Weaker glass demand due to less expansion in global melting capacity. Slightly higher chemical demand predicted due to expansion
- Rhodium market to tighten but remain in surplus



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