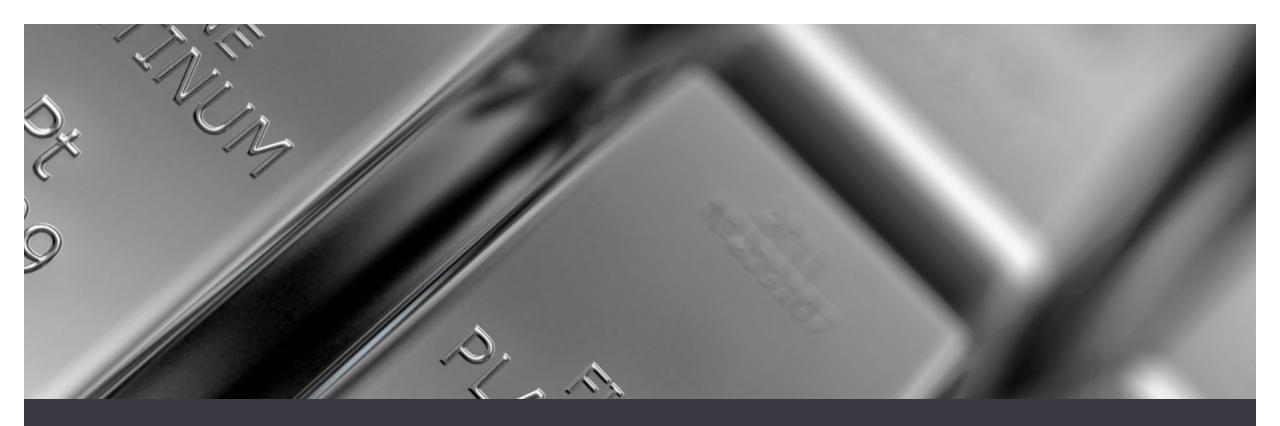


Wilma Swarts, Metals Focus

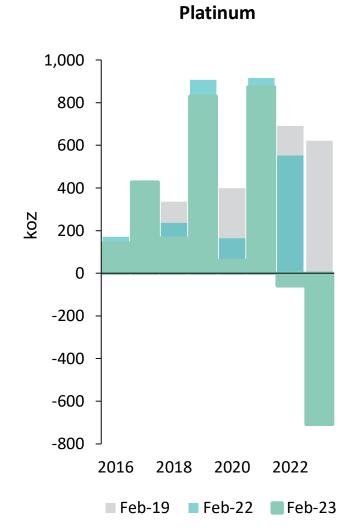


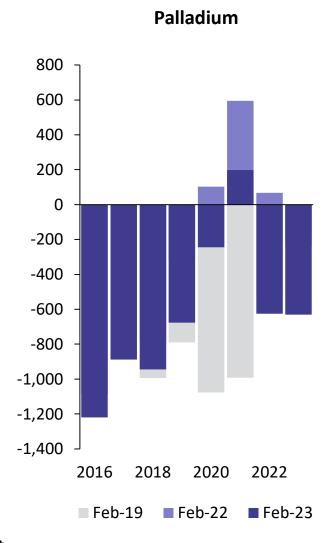
#### **Metals Focus**

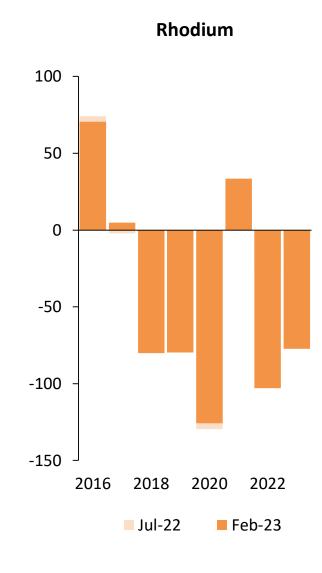
Slippery supply slope forces PGM markets into deficit IPMI, Orlando March 1, 2023 Presented by Wilma Swarts



## Rapidly changing landscape – changes to market balances



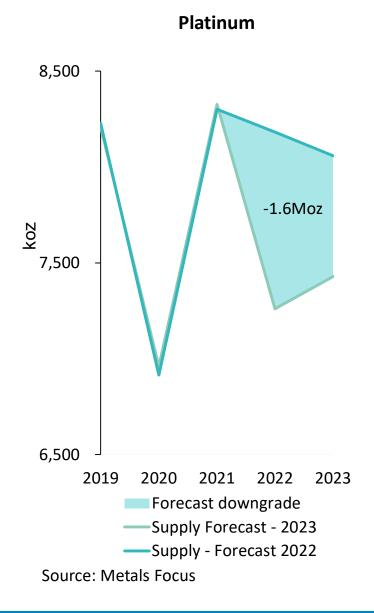


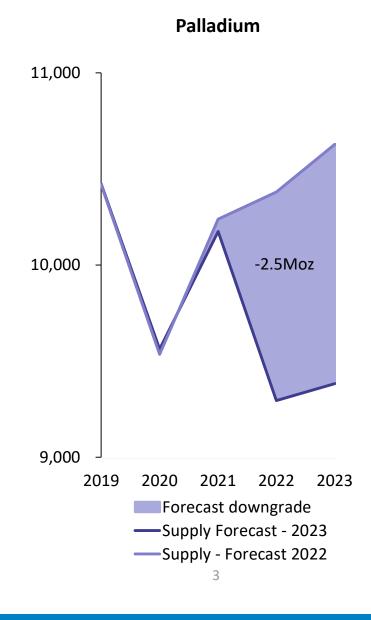


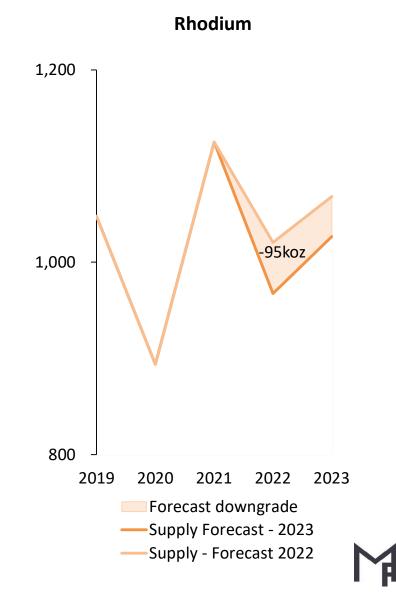
Source: Metals Focus, historical and current forecast



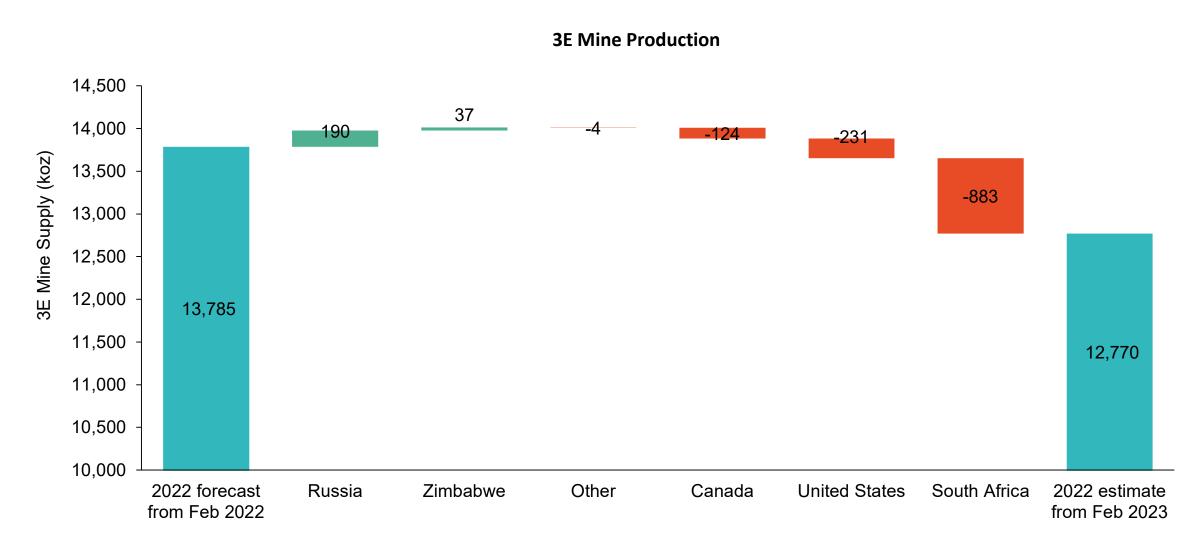
#### What shifted the market status?







# Where was the mine production shortfall?



Source: Metals Focus

14

## PGM miners failing to achieve planned volumes

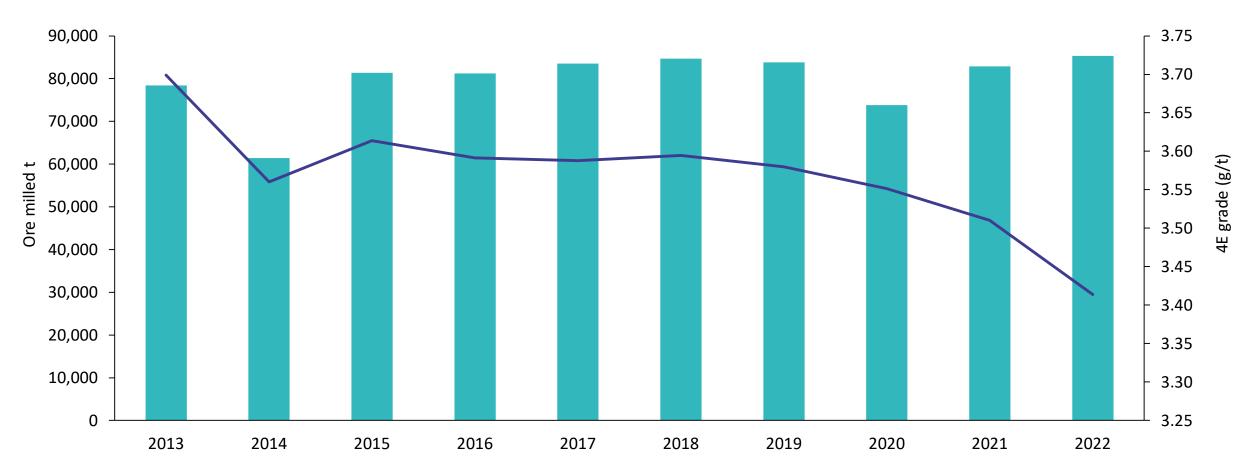






# Geology remains stable, but ore body mix changed

#### Southern Africa (SA + Zim)

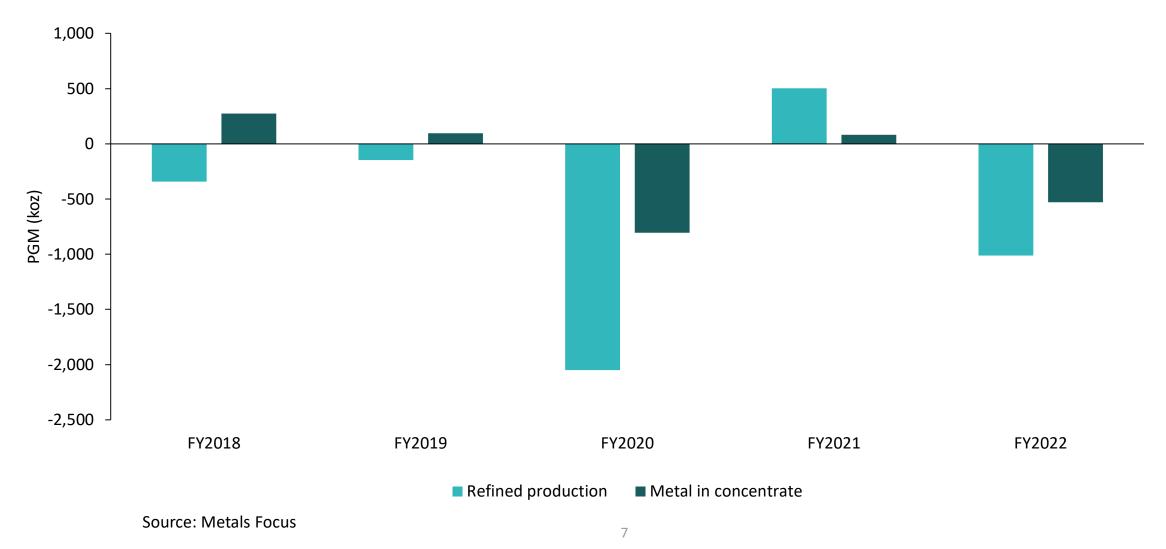


Source: Metals Focus

14

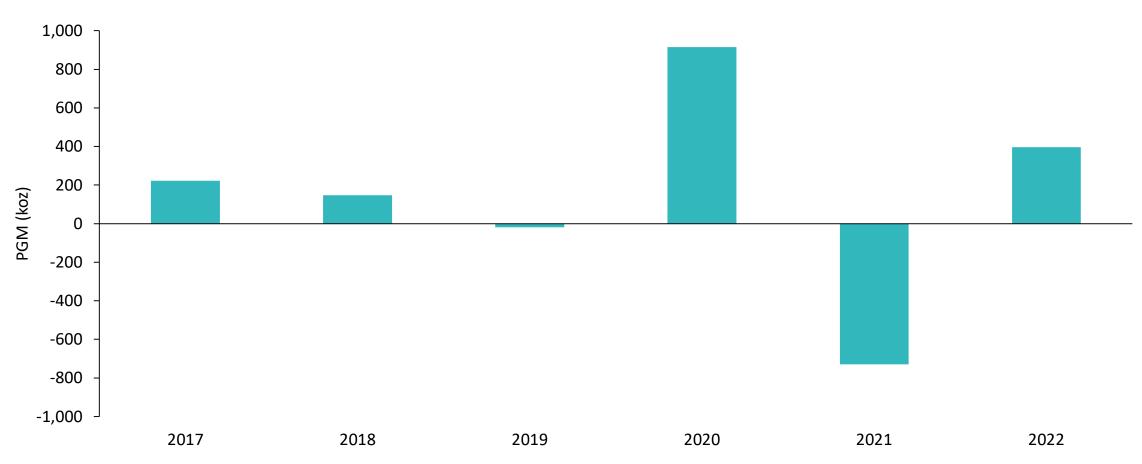
## It boils down to smelting





## Semi-finished inventory dictating PGM supply

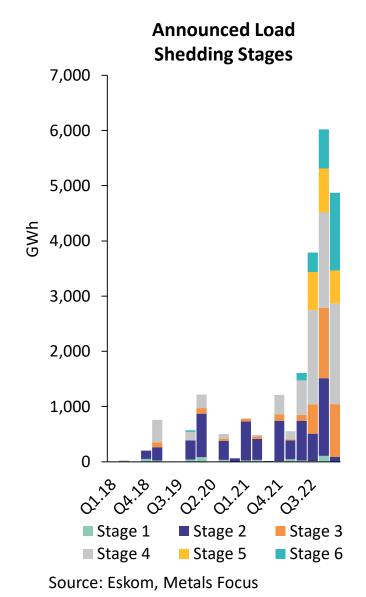


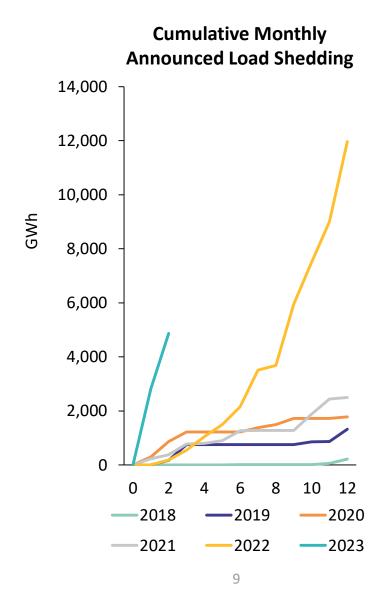


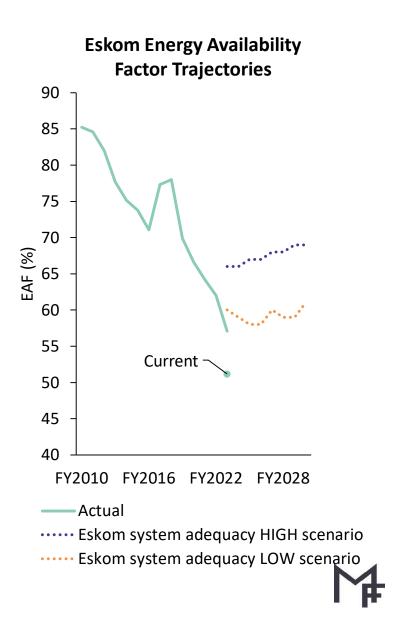
Source: Metals Focus



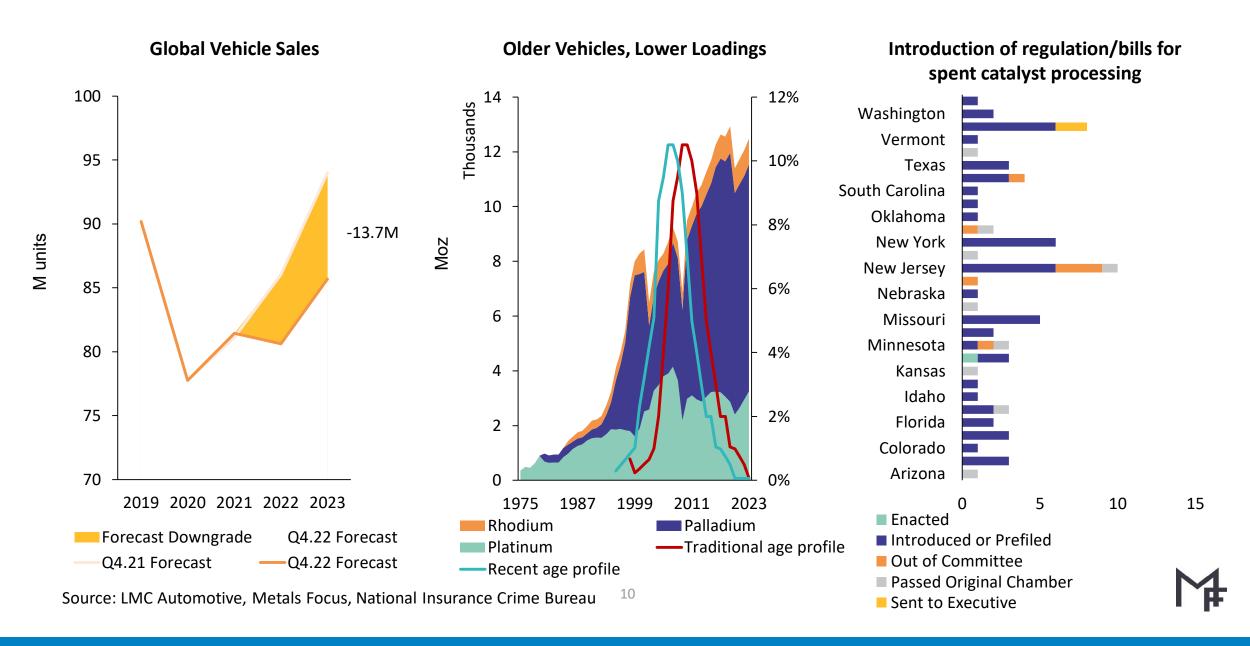
## Eskom increasing uncertainty



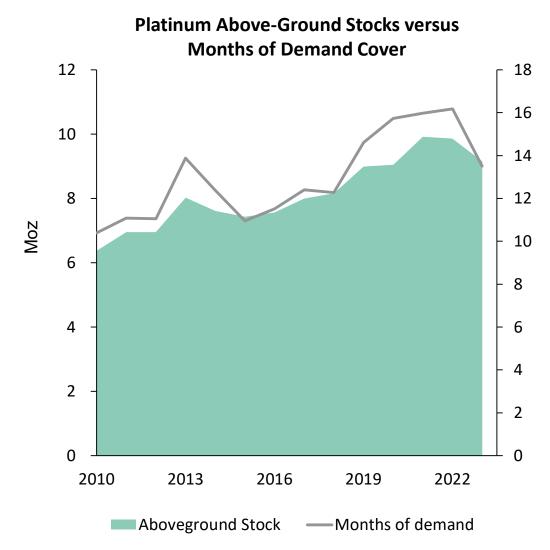




## Secondary supply facing challenges

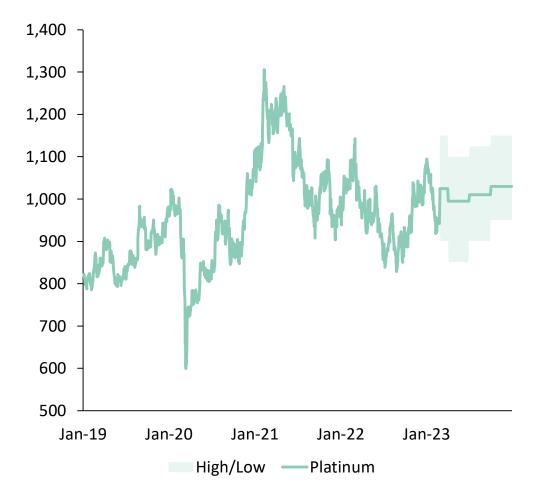


## Platinum – above-ground stock and price outlook



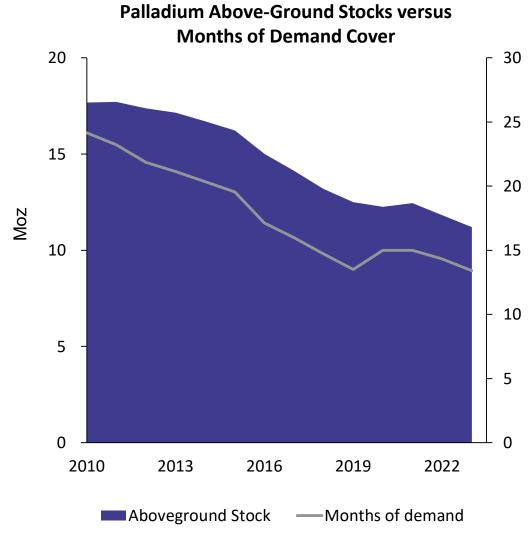
Daily actuals with quarterly forecast averages Q4.22-Q4.23 Source: Metals Focus (forecast), Bloomberg (history)

#### **Platinum Historical Price and Outlook**



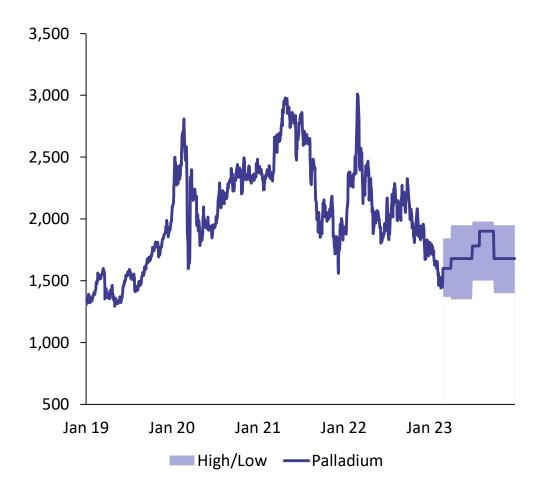


## Palladium – above-ground stock and price outlook



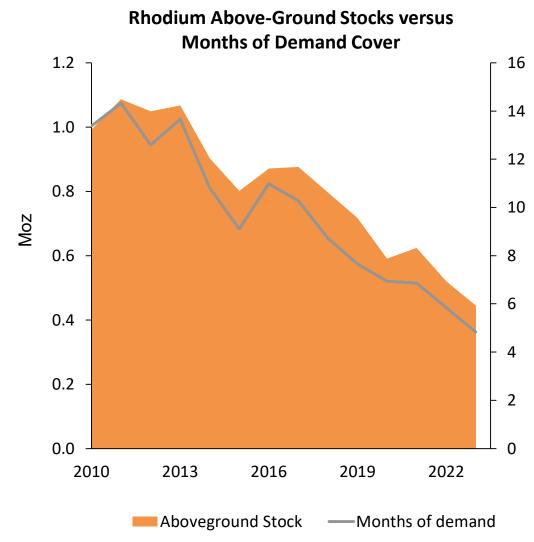
Daily actuals with quarterly forecast averages Q4.22-Q4.23 Source: Metals Focus (forecast), Bloomberg (history)

#### **Palladium Historical Price and Outlook**



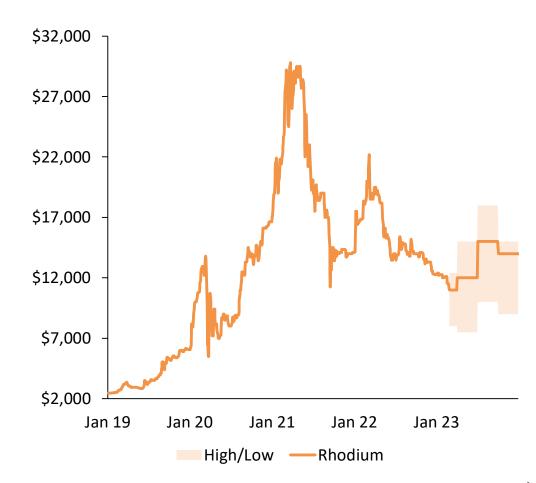


## Rhodium – aboveground stock and price outlook



Daily actuals with quarterly forecast averages Q4.22-Q4.23 Source: Metals Focus (forecast), Bloomberg (history)

#### **Rhodium Historical Price and Outlook**





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