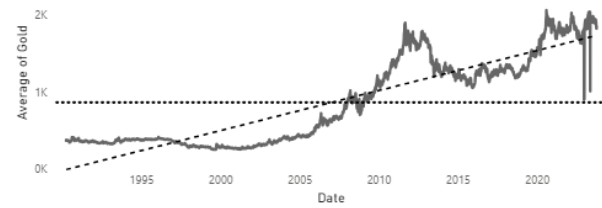


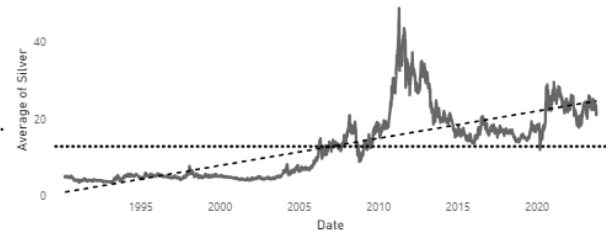
Power BI Report

Metal Price Overview

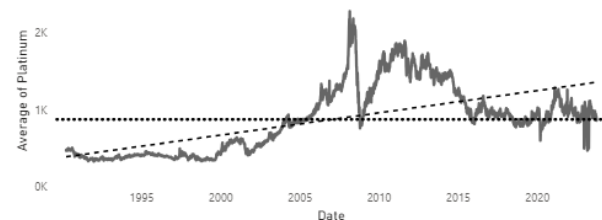
Average Gold Price Trends Over Time



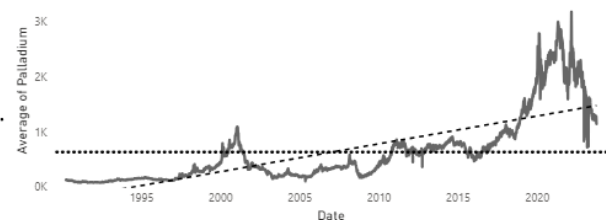
Average Silver Price Trends Over Time



Average Platinum Price Trends Over Time



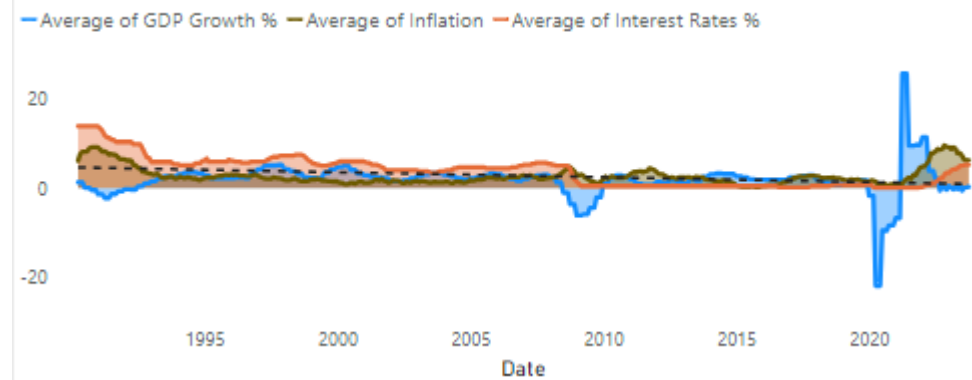
Average Palladium Price Trends Over Time



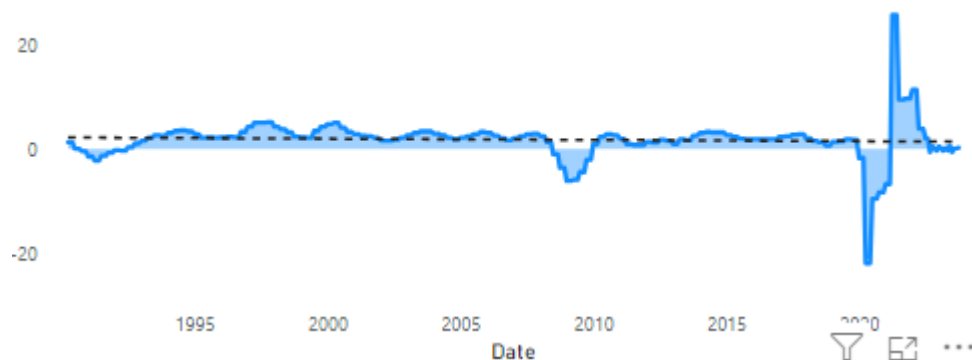
First, we looked at an overview of all precious metal prices. For this we plotted the date against the metal price, for each metal. There is also a trendline. This shows that for all precious metals, the prices have generally increased in the last 30 years.

Economic Indicators Overview

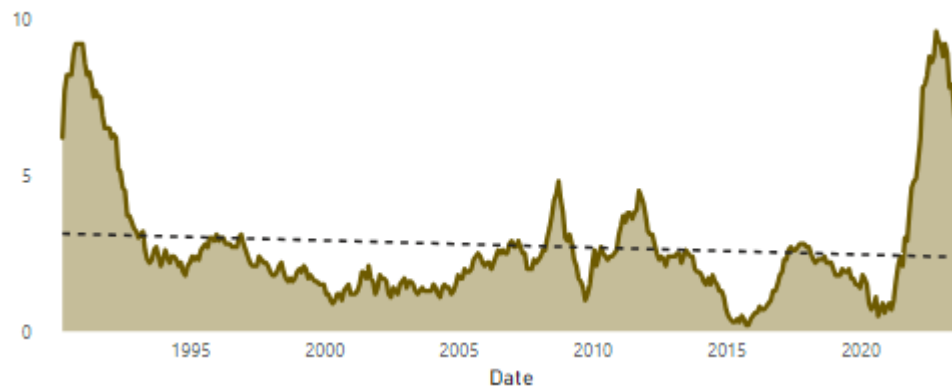
Monthly Comprehensive Economic Trends: Inflation, GDP Growth, and Interest Rates



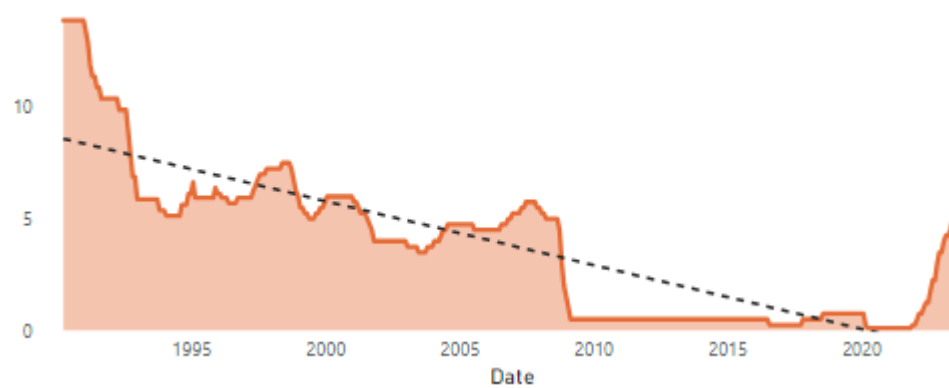
GDP Growth % Trends Over Time



Inflation Trends Over Time



Interest Rate Trends Over Time

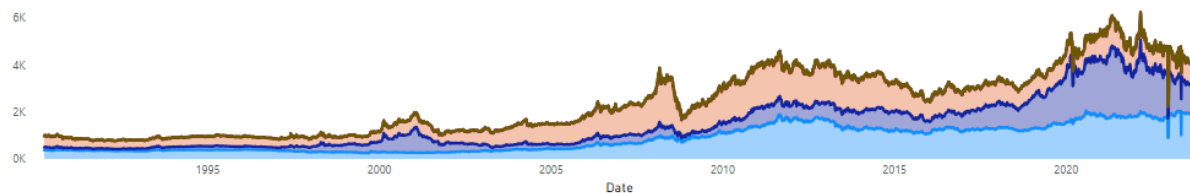


We then wanted to look at an overview of our selected economic indicators: GDP, inflation, and interest rates. From this we can see that around 2020-2023, there were massive fluctuations in all economic indicators. The biggest fluctuation was in GDP growth as the GDP growth dropped drastically in 2020, within the same year it increased drastically, and in 2022 it dropped down again. In 2021, both inflation and interest rates increased.

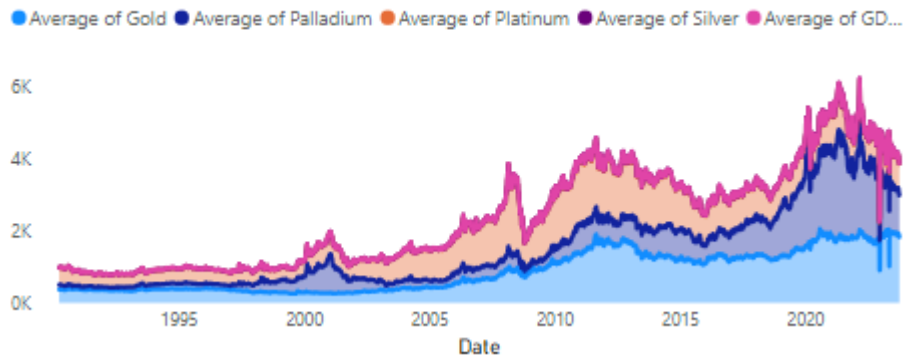
Metal Analysis (Individual Economic Indicator)

Metal Price and Inflation Trends Over Time

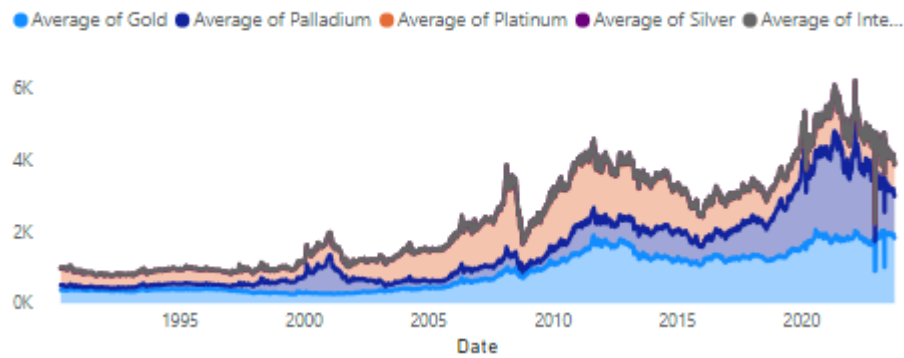
● Average of Gold ● Average of Palladium ● Average of Platinum ● Average of Silver ● Average of Inflation



Metal Prices and GDP Growth Trends Over Time



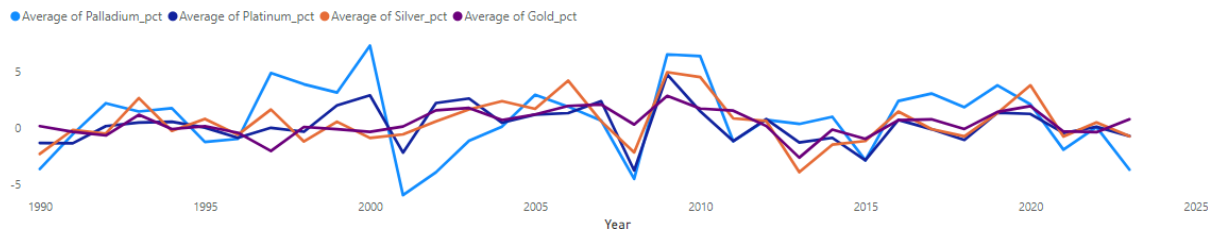
Metal Prices and Interest Rate Trends Over Time



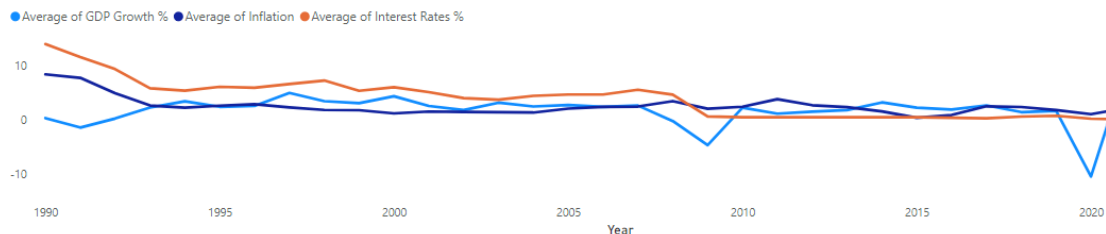
Here we have plotted graphs for each metal price individually, vs all the economic indicators. These provide a comparison between the economic indicators and how they could be correlated with precious price metals.

Metal Yearly Price Percentage Change vs Economic Indicator

Exploring Yearly Metal Price Percentage Change Patterns

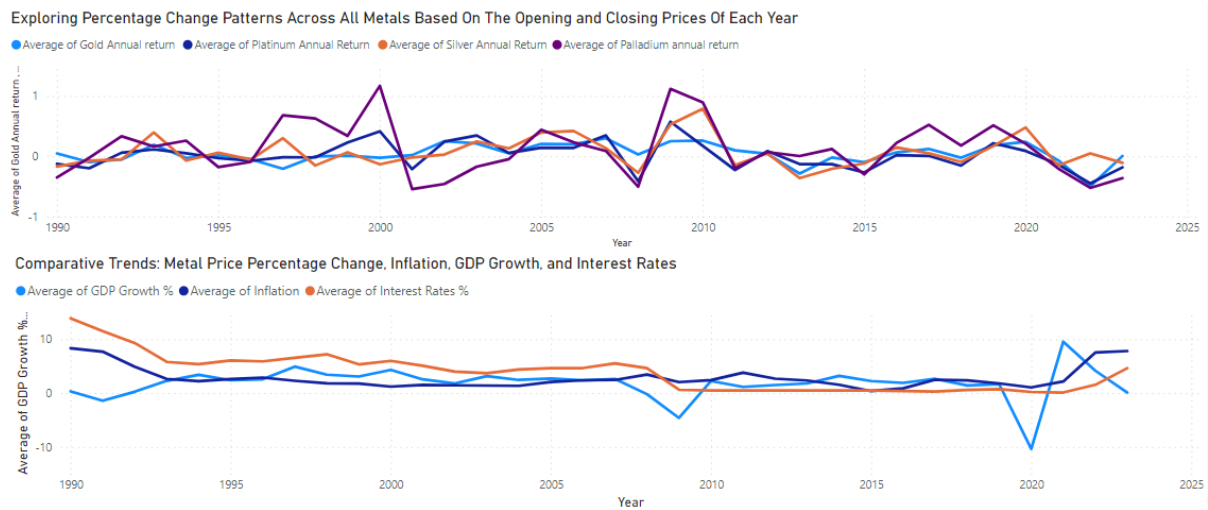


Comparative Trends: Metal Price Percentage Change, Inflation, GDP Growth, and Interest Rates



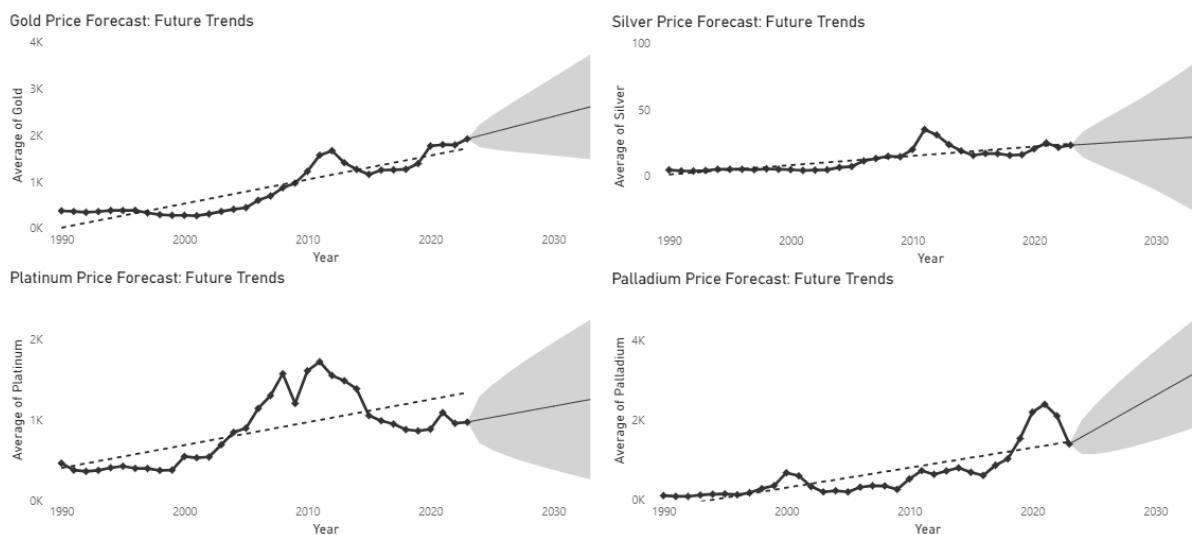
Here we created line graphs of the annual percentage changes of the precious metal prices. These were calculated based on the monthly returns for each year and averaging all the monthly returns for each year. Then we plotted GDP, interest rates and inflation right underneath to allow for easier comparison.

Metal Opening and Closing Price vs Economic Change



We then did the same thing, but this time the annual percentage change was calculated based the opening and closing prices of each year.

Metal Price Forecast



Here we used the power BI forecast tool to try and predict how the precious metal prices will change by 2030. We can see that for all metals, the prices are predicted to increase, but the most drastic increase has been predicted for palladium.