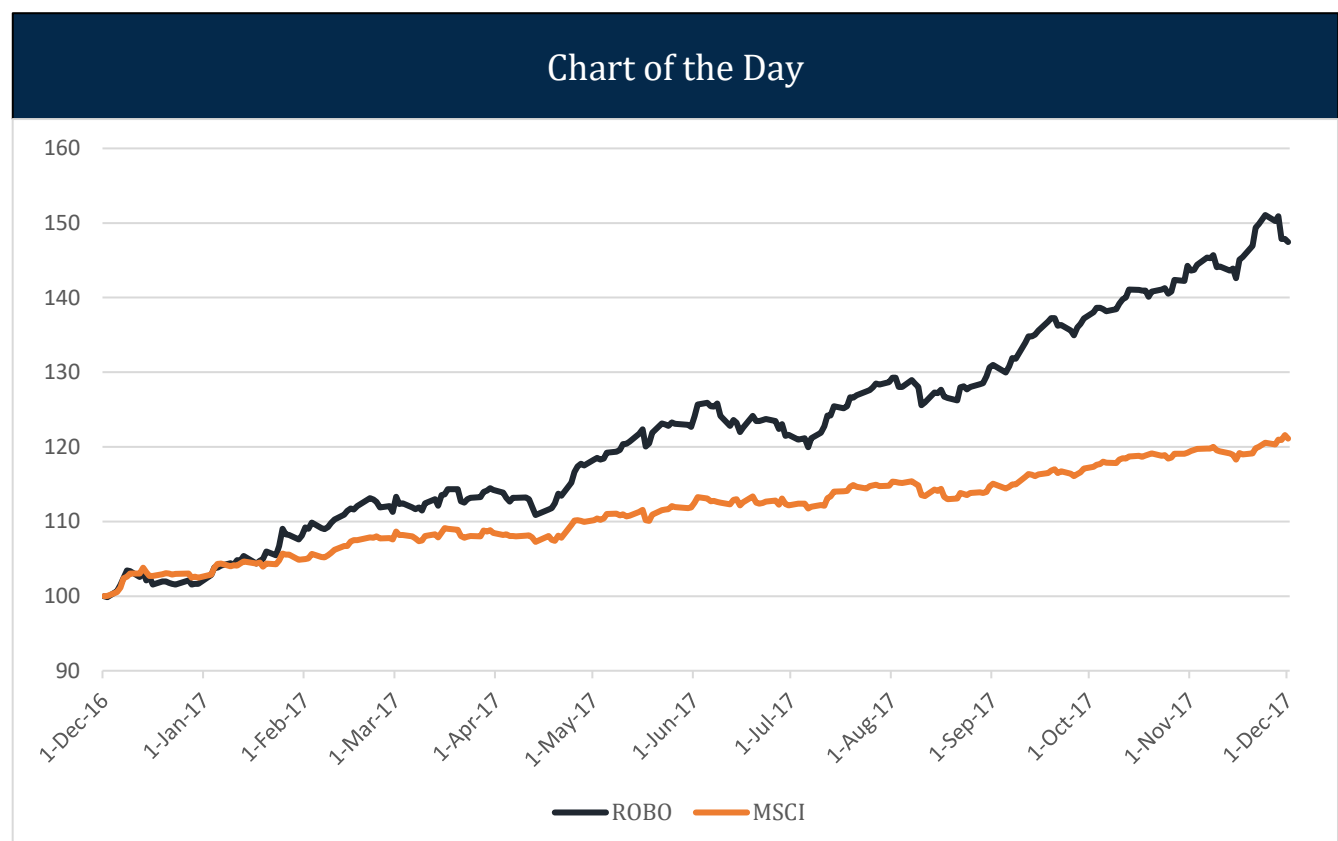


December 6, 2017

## Robotics and Automation - A Growing Trend

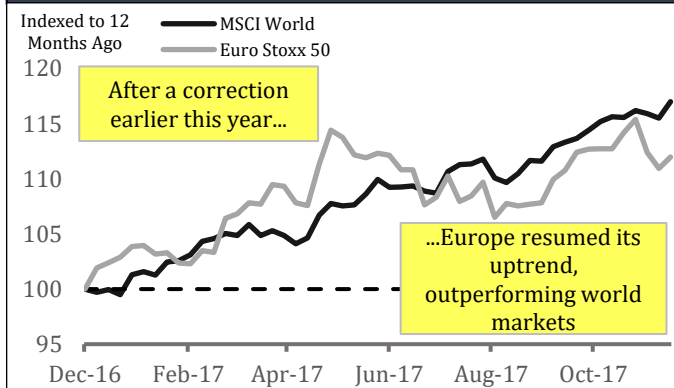


ROBO The Global Robotics and Automation ETF has gained 45.10% YTD (as at December 1, 2017). As the underlying trend to increase and utilize automation gains further traction, signals indicate investment and growth in this sector will increase at an accelerated pace. Currently with 1,8 million robots active worldwide, the International Federation of Robotics (IFR) predict that the amount of robots will double by 2019. The leader in this space is China, followed by South Korea then Japan. Industry analysis identifies 40% of robots being used in the automotive sector, 20% in electronics, and 10% in metals.

The ETF allocations are 40% North America, 35% Asia and 22% Europe with 48% of the holdings in companies which manufacture or provide services related to a robot performing its task, and 52% in companies that incorporate multiple robotic and automation technologies.

# World Equity Indices

## World Equity Indices Weekly Values; Rolling 12-Months



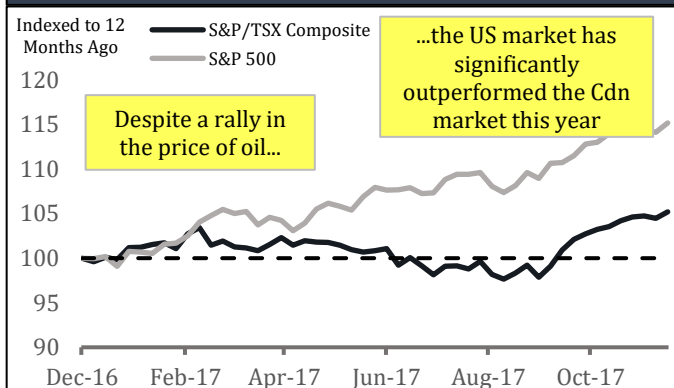
This chart compares the relative performance of the MSCI World Index with the Euro Stoxx 50 (quoted in local currency)  
Source: Bloomberg

## World Equity Indices Weekly Values; Rolling 10-Years



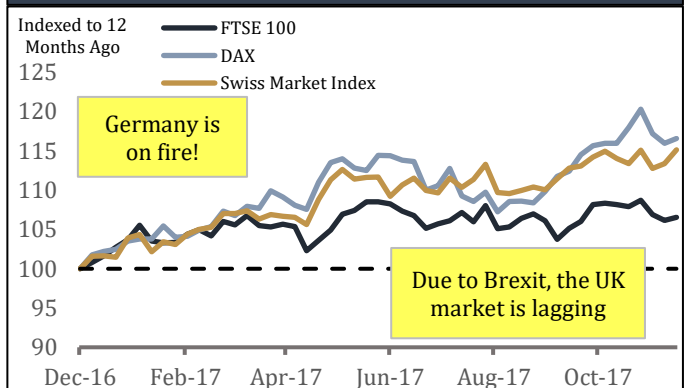
This chart compares relative performance of the MSCI World Index with the Euro Stoxx 50 (quoted in local currency)  
Source: Bloomberg

## North American Equity Indices Weekly Values; Rolling 12-Months



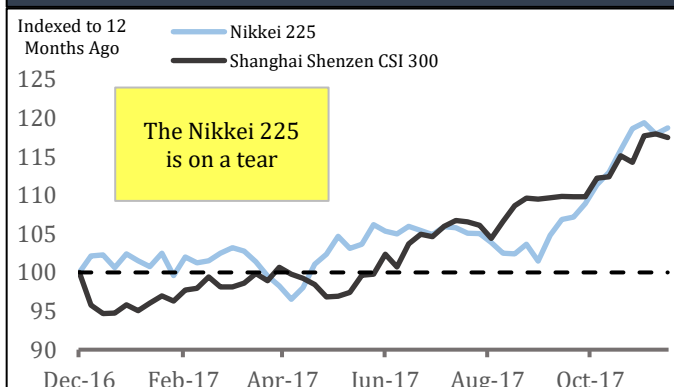
This chart compares the relative performance of the S&P/TSX Composite with the S&P 500 (quoted in local currency)  
Source: Bloomberg

## European Equity Indices Weekly Values; Rolling 12-Months



This chart compares the relative performance of the FTSE 100 with the DAX and SMI (quoted in local currency)  
Source: Bloomberg

## Asian Equity Indices Weekly Values; Rolling 12-Months



This chart compares the relative performance of the Nikkei 225 with the Shanghai Shenzen CSI 300 (quoted in local currency)  
Source: Bloomberg

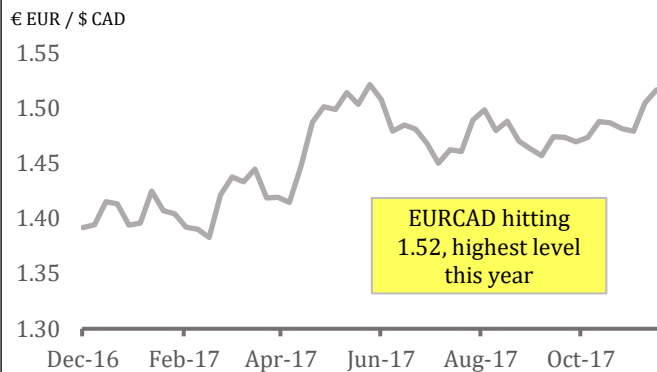
## Major Equity Indices Weekly Values; Rolling 10-Years



This chart compares the relative performance of the S&P/TSX Composite with the S&P 500 and SMI (quoted in local currency)  
Source: Bloomberg

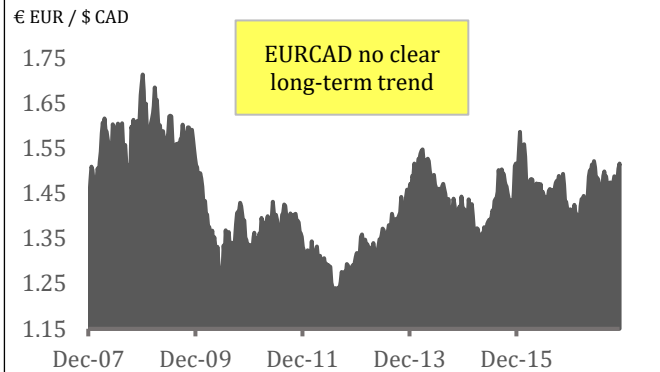
# World Currencies

**EURCAD**  
Weekly Values; Rolling 12-Months



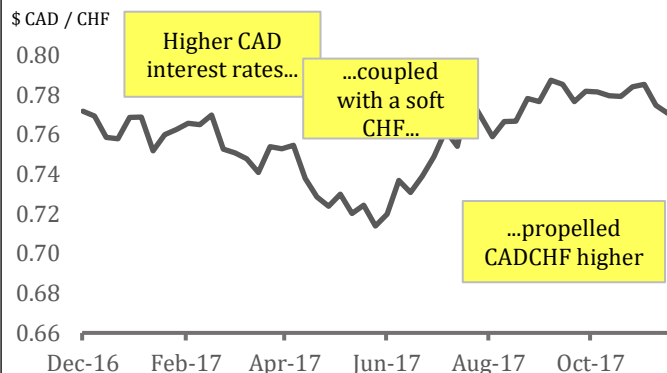
This chart shows the amount of Canadian dollars required to purchase 1 Euro  
Source: Bloomberg

**EURCAD**  
Weekly Values; Rolling 10-Years



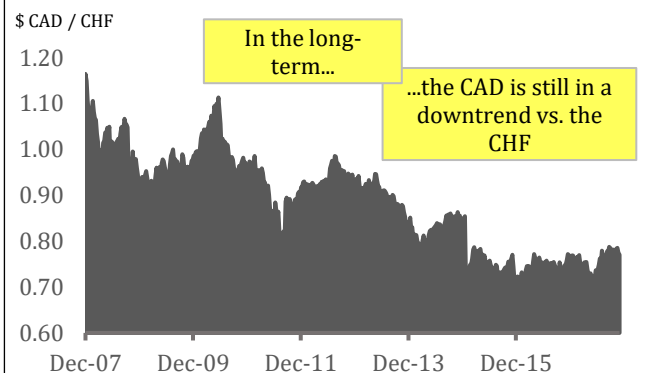
This chart shows the amount of Canadian dollars required to purchase 1 Euro  
Source: Bloomberg

**CADCHF**  
Weekly Values; Rolling 12-Months



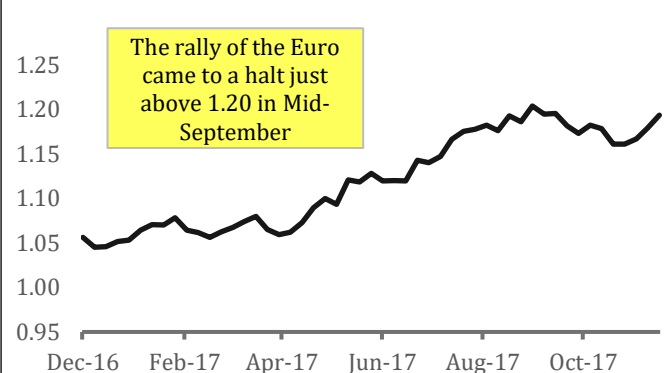
This chart shows the amount of Swiss Francs required to purchase 1 Canadian dollar  
Source: Bloomberg

**CADCHF**  
Weekly Values; Rolling 10-Years



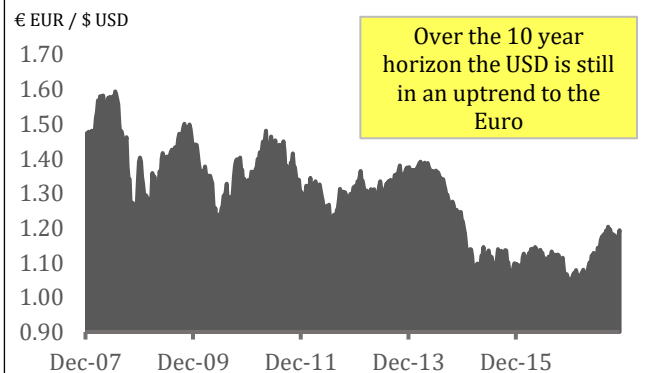
This chart shows the amount of Swiss Francs required to purchase 1 Canadian dollar  
Source: Bloomberg

**EURUSD**  
Weekly Values; Rolling 12-Months



This chart shows the amount of US dollars required to purchase 1 Euro  
Source: Bloomberg

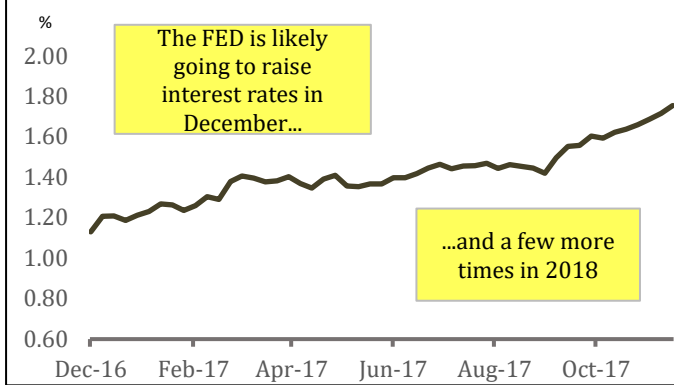
**EURUSD**  
Weekly Values; Rolling 10-Years



This chart shows the amount of US dollars required to purchase 1 Euro  
Source: Bloomberg

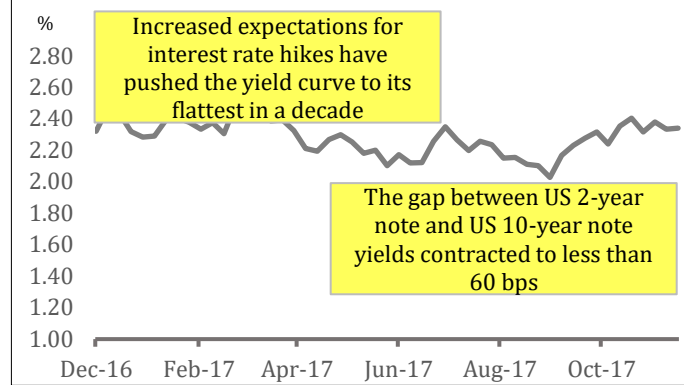
# Interest Rates

USD 1 Year Interest Rate  
Weekly Values: Rolling 12-Months



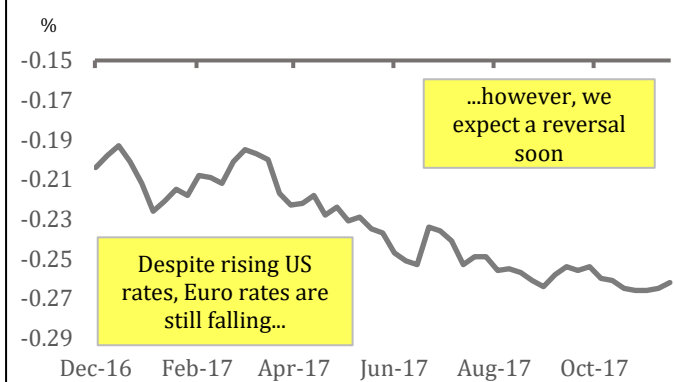
This chart shows the 1 year interest rate swap in the United States  
Source: Bloomberg

USD 10 Year Interest Rate  
Weekly Values; Rolling 12-Months



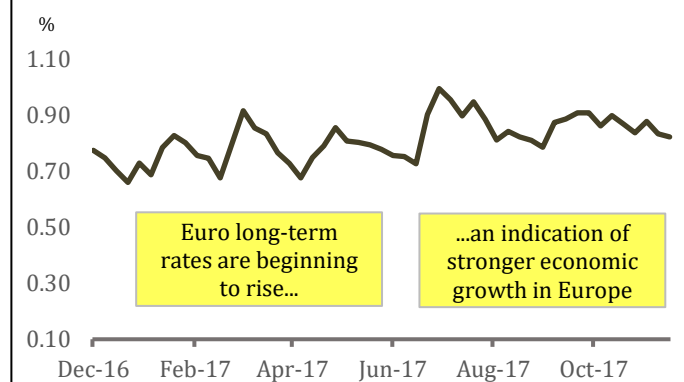
This chart shows the 10 year interest rate swap in the United States  
Source: Bloomberg

EURO 1 Year Interest Rate  
Weekly Values; Rolling 12-Months



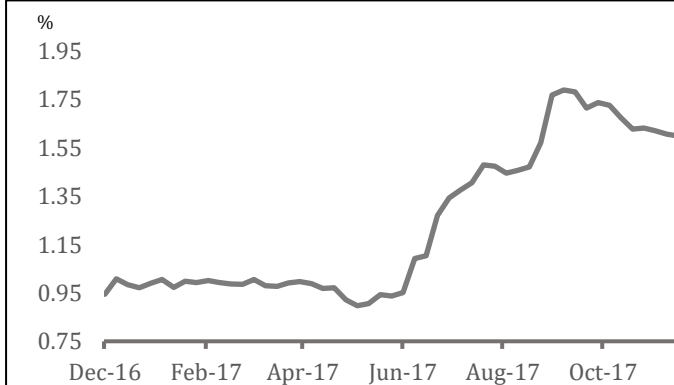
This chart shows the 1 year interest rate swap in the European Union  
Source: Bloomberg

EURO 10 Year Interest Rate  
Weekly Values; Rolling 12-Months



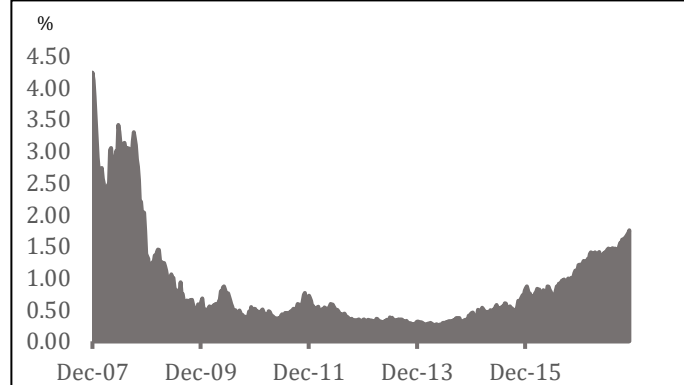
This chart shows the 10 year interest rate swap in the European Union  
Source: Bloomberg

CAD 1 Year Interest Rate  
Weekly Values; Rolling 12-Months



This chart shows 1 year interest rate swap in Canada  
Source: Bloomberg

USD 1 Year Interest Rate  
Weekly Values; Rolling 10-Years



This chart shows the 1 year USD interest rate swap over a 10-year period  
Source: Bloomberg

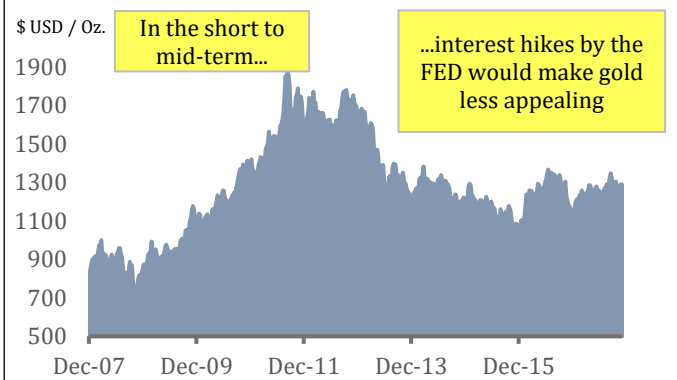
# Commodities

Gold  
Weekly Values; Rolling 12-Months



This chart shows the price of Gold in USD  
Source: Bloomberg

Gold  
Weekly Values; Rolling 10-Years



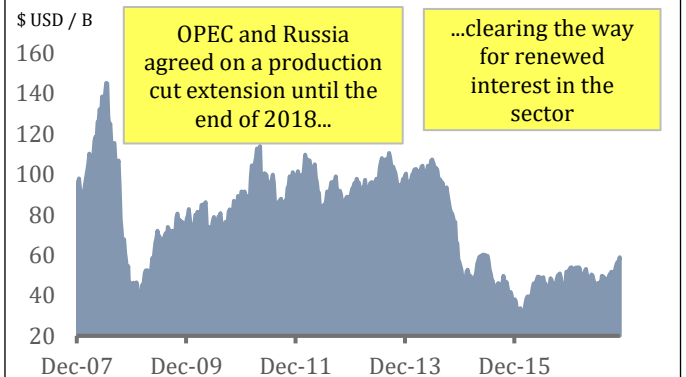
This chart shows the price of Gold in USD  
Source: Bloomberg

WTI Crude Oil  
Weekly Values; Rolling 12-Months



This chart shows the price of crude oil in USD  
Source: Bloomberg

WTI Crude Oil  
Weekly Values; Rolling 10-Years



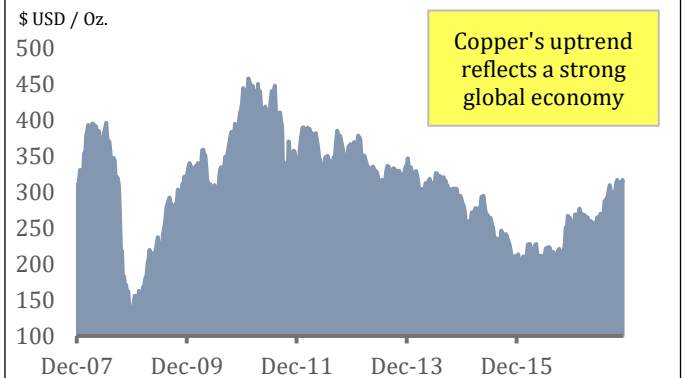
This chart shows the price of crude oil in USD  
Source: Bloomberg

Copper  
Weekly Values; Rolling 12-Months



Nicknamed "Dr. Copper", its price can give insights into the health of the global economy  
Source: Bloomberg

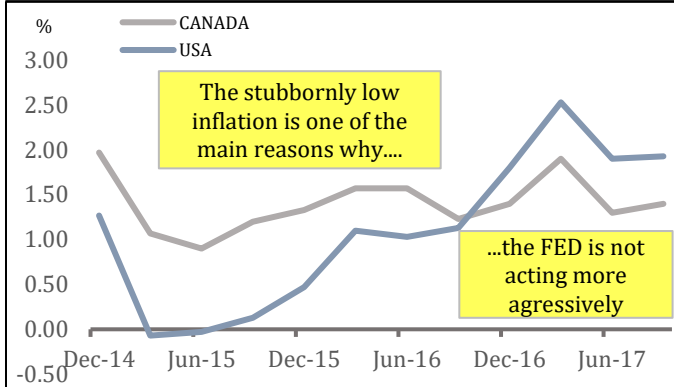
Copper  
Weekly Values; Rolling 10-Years



This chart shows the price of copper in USD  
Source: Bloomberg

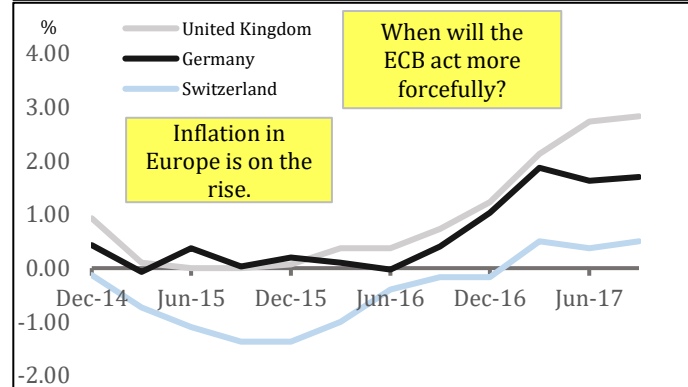
# Macro Economic Data

North American CPI %  
Quarterly Values; Rolling 3-Years



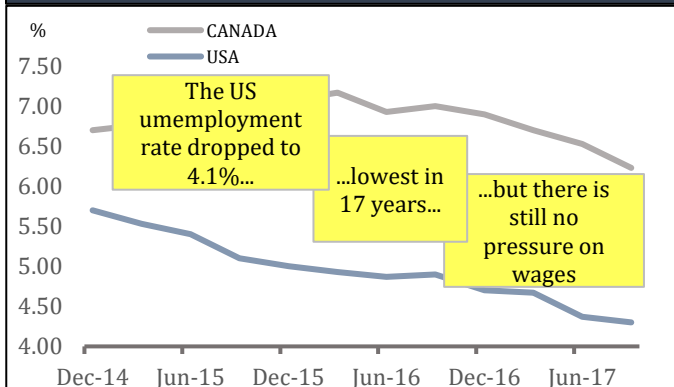
This chart compares the consumer price index between Canada and the US  
Source: Bloomberg

European CPI %  
Quarterly Values; Rolling 3-Years



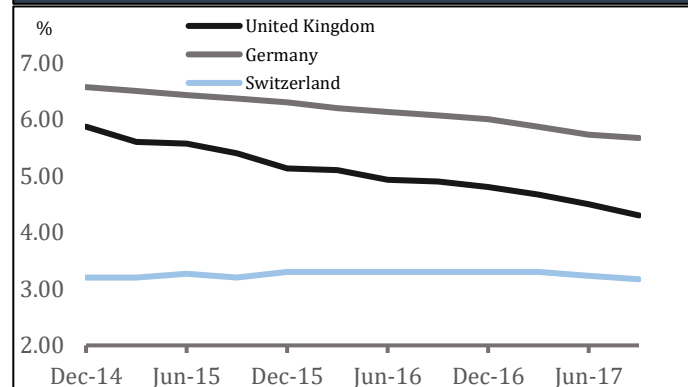
This chart compares the consumer price index between the United Kingdom, Germany and Switzerland  
Source: Bloomberg

North American Unemployment Rate %  
Quarterly Values; Rolling 3-Years



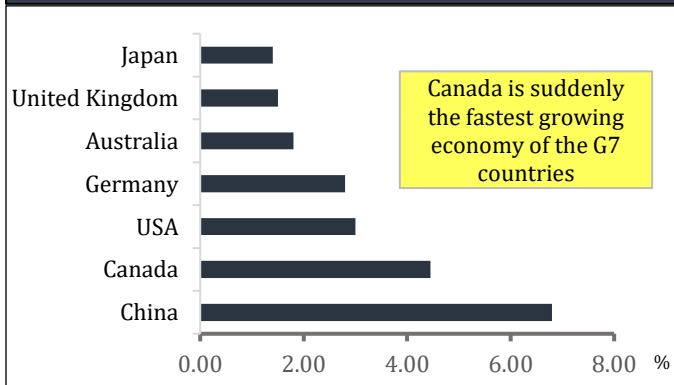
This chart compares the unemployment rate between Canada and the US  
Source: Bloomberg

European Unemployment Rate %  
Quarterly Values; Rolling 3-Years



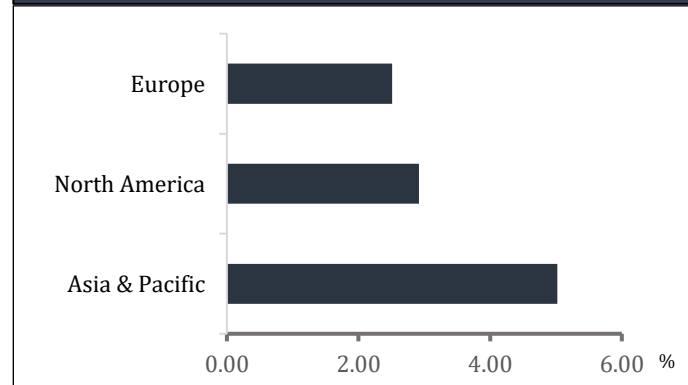
This chart compares the unemployment rate between The United Kingdom, Germany and Switzerland  
Source: Bloomberg

Real GDP Growth by Country  
Rolling Quarterly Figures



This chart shows the quarterly real GDP % growth per country on an annualized basis  
Source: Bloomberg

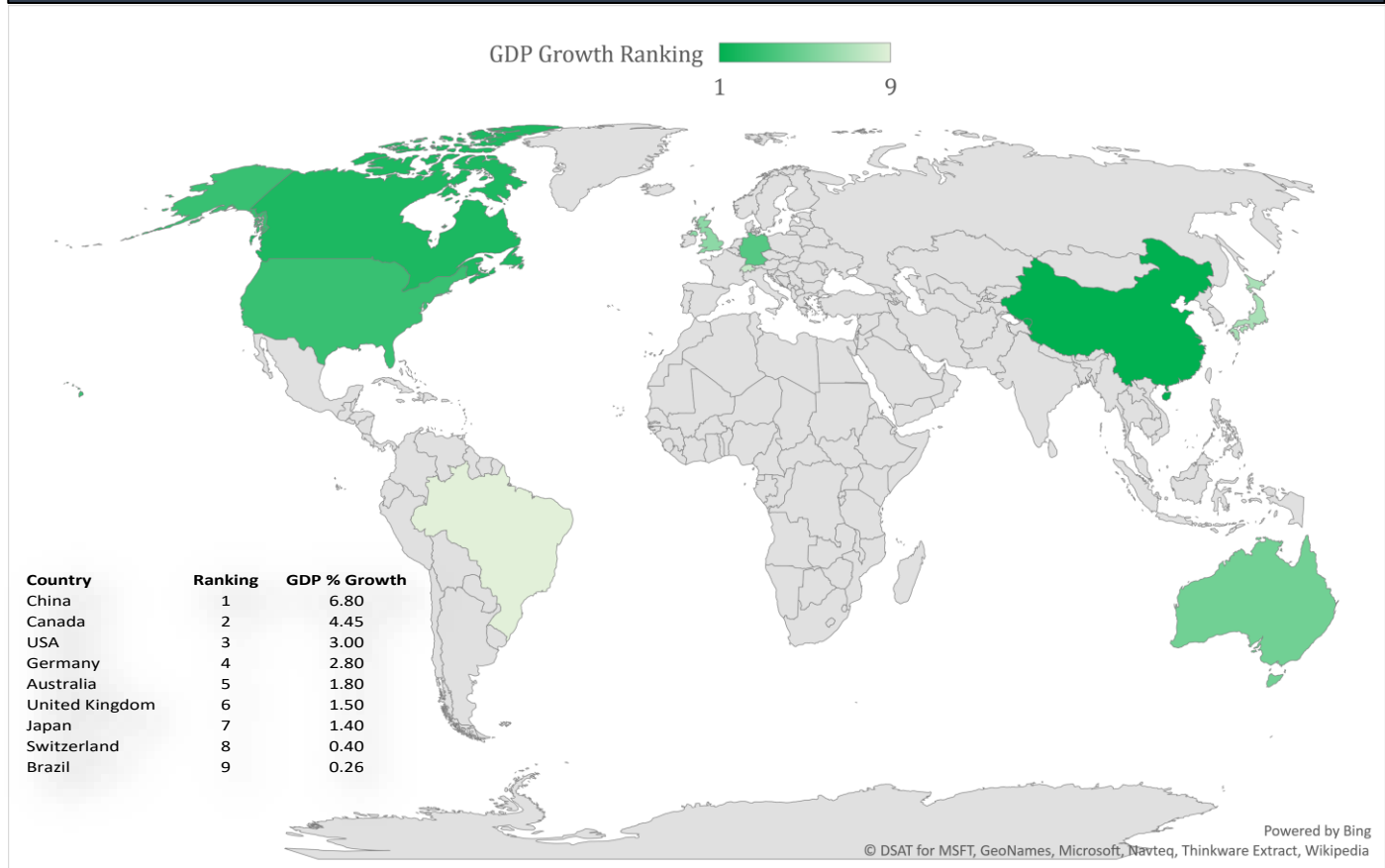
Real GDP Growth by Region  
Rolling Quarterly Figures



This chart shows the quarterly real GDP % change per region on an annualized basis  
Source: Bloomberg

# World Comparison

World Map Real GDP % Growth of Selected Countries  
Rolling Quarterly Figures



This world map compares the real GDP % growth per country on an annualized basis  
Source: Bloomberg

Equity Indices Heatmap  
Relative Performance 52 Weeks as at Friday, December 1st, 2017

World	17.57%	Germany	14.80%
Europe	10.32%	Great Britain	4.98%
Asia Pacific	22.77%	Switzerland	14.51%
USA	16.94%	China	14.44%
Canada	4.75%	Japan	20.12%

This heatmap shows the relative 52 week performance of the MSCI World, the EURO Stoxx 50, MSCI Asia Pacific, S&P 500, SPTSX Composite, DAX, FTSE 100, Swiss Market Index, Shanghai Shenzhen CSI 300 and NIKKEI 225  
Source: Bloomberg



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