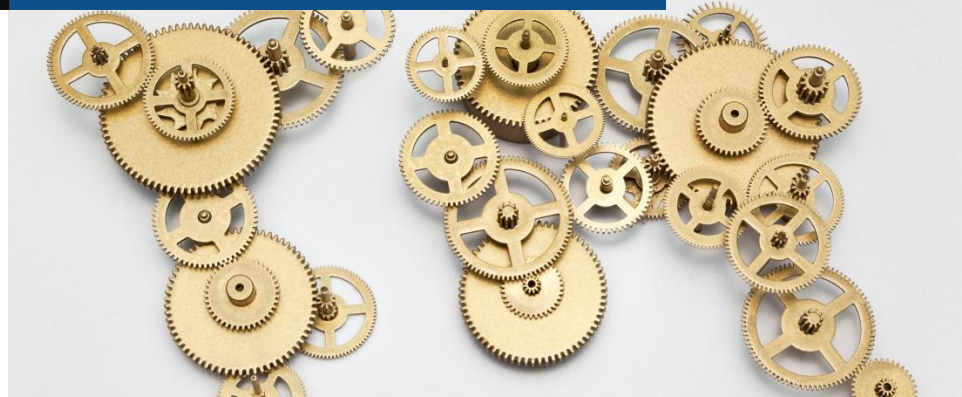


Europe Strategy

December 2nd, 2019



Outlook for European equities still positive, UK equities and Sterling dependent on election result

Jeffrey Sacks

Head - EMEA Investment Strategy

+44.207 508 7325

Jeffrey.ian.sacks@citi.com

Shan Gnanendran, CFA

EMEA Investment Strategy

+44.207 508 0458

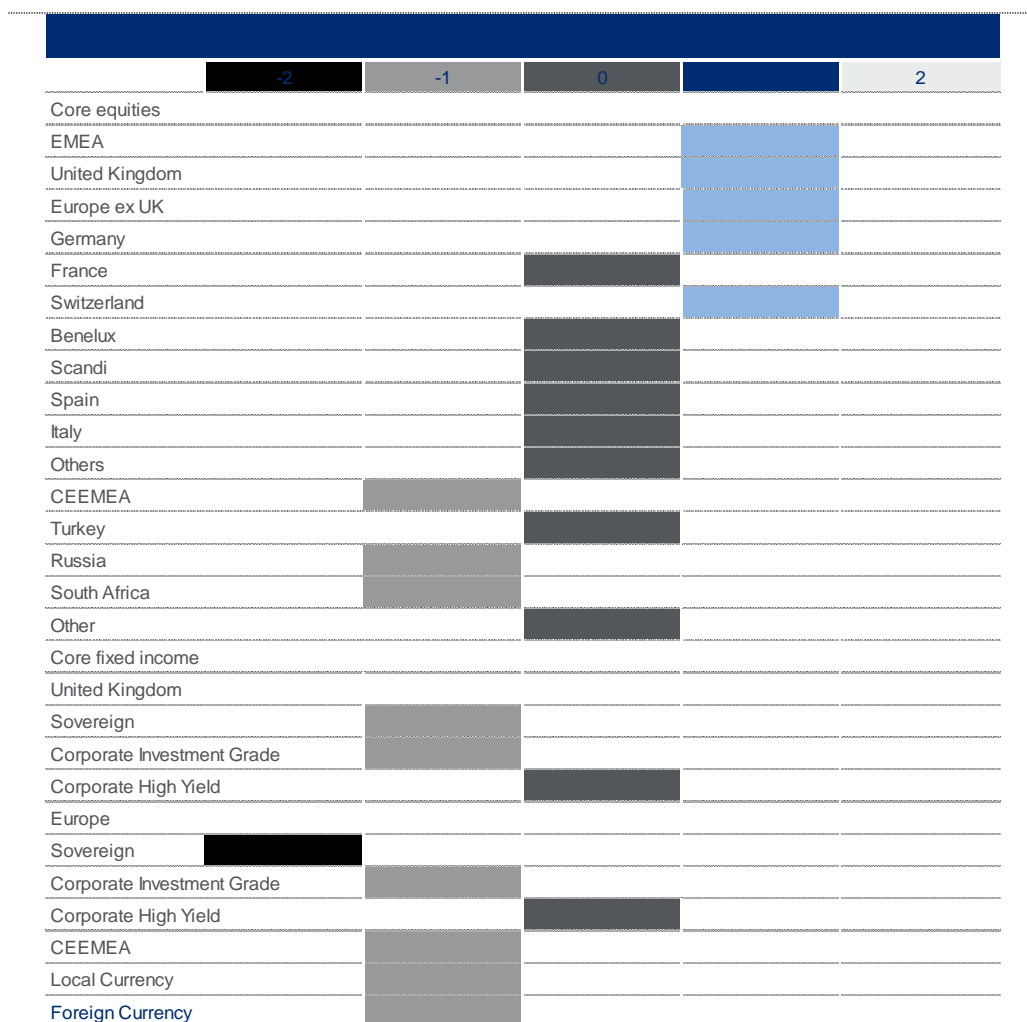
Shan.gnanendran@citi.com

- **UK assets expected to range-trade ahead of the 12th December election.** Polling is indicating a Conservative win is the most likely outcome, which is likely to lead to strength in UK equities and Sterling.
- **European economic growth is steady at a low 1% level.** The European Central Bank remains dovish, the manufacturing sector is tentatively recovering, and pressures are mounting for greater fiscal expansion.
- **Worsening EU-US trade outlook.** More positively, the US-China trade war is not expected to re-escalate.
- **Overweight Europe ex-UK equities.** Our selective approach highlights Switzerland and Germany, the healthcare, autos, and bank sectors, and the themes of high dividend yielders and share buyback candidates.
- **Underweight European sovereign bonds.** In our view, the 10-year German Bund yield of -0.37% is poor value, regardless of potential short-term price upside from renewed ECB buying.
- **Underweight Europe and UK investment grade corporate bonds.** Renewed ECB buying of European corporate bonds will drive yields to even lower levels in the short-term. However, yields might be enhanced by hedging back into US dollars. UK corporate bonds could have a trading rally in the event of a Conservative majority.
- **Neutral high yield corporate bonds.** The average yield of 3.4% is historically low, but likely to go even lower amid the 'reach for yield'. There is decent coupon support, a low level of defaults, and only modest leverage.
- **The Euro is likely to keep drifting lower versus the US dollar.** This is due to a combination of further ECB easing and rising US trade tensions. A passing of the UK Withdrawal Act at the end of Jan 2020 could offer the currency some support.
- **Portfolio construction should reflect current conditions.** Stay invested but diversified. Strategically, we favour value over growth, with continued strength in cyclicals as global manufacturing recovers. For equities and fixed income, our focus is on income generation, via high dividend yielding stocks and high yield corporate bonds.

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Global Investment Committee (GIC) EMEA asset allocation



Source: Citi Private Bank showing Office of the Chief Investment Strategist (OCIS)'s asset allocation for Europe as of last Global Investment Committee (GIC), November 2019. Note: -2=very underweight; -1=underweight; 0=neutral, 1=overweight; 2=very overweight. All allocations are subject to change at discretion of the GIC of Citi Private Bank.

Summary Recommendations

| Asset Class | View | Asset Class Views |
|--|---------------------------------|---|
| EUROPE-EX-UK | | |
| Europe ex-UK Equities (large-cap) | Overweight | We see selective opportunities based on: Valuation: 46% cheaper than US equities on a price/book basis, 19% cheaper on a cyclically adjusted price-to-earnings ratio basis. Yield Gap: Difference between average dividend yields and investment grade bond yields is at a historically wide level of 2.9%. Earnings growth: Consensus forecasts of 6% and 10% EPS growth in 2019 and 2020 respectively. |
| Europe ex-UK Fixed Income (sovereign bonds) | Underweight | Sovereign bonds are already expensive (68% of sovereigns trade with a negative yield and over 93% yield under 1%). We see this continuing in the short-term due to renewed ECB buying. |
| Europe ex-UK Fixed Income (Investment Grade) | Underweight | Euro IG has returned 6.3% YTD driven by rising expectations of further bond buying from the ECB. As investors buy ahead of the further universe shrinkage, average Euro IG yields have fallen to 0.5% (from over 1.4% in early 2019). Further gains likely in the short-term, but not long-term. |
| Europe ex-UK Fixed Income (High Yield) | Neutral | Euro HY will continue to benefit from IG investors dropping down in credit quality for a pick-up in yield. This hunt for yield has seen Euro HY provide equity-like returns this year of 10%, with further gains expected. HY benefits from low default rates of just over 2%, only modest leverage, and decent coupons. |
| Euro | Neutral | The Euro is likely to be steady at \$1.10-\$1.11 over the coming weeks. Confirmed UK parliamentary ratification of the Withdrawal Act would result in some strength. But for sustained strength, the Eurozone economy would need to respond meaningfully to the renewed ECB QE. |
| UNITED KINGDOM | | |
| UK Equities | Overweight | The average PE ratio of 13.6x and dividend yield of 4.7% look attractive. We advise accumulating slowly into weakness, and buy more aggressively if Conservatives win the election. Prefer liquid blue-chip exporters with high dividend yields, as well as domestics if Conservatives win. |
| UK Gilts | ST positive, LT negative | In the short-term, prices could rally further, in line with the global sovereign bond rally. However there are long-term concerns, with both of the main political parties now committed to fiscal expansion. |
| Sterling | Neutral | We expect GBP to remain range-trade around \$1.30 ahead of the 12th December election. A Conservative win could take Sterling initially to \$1.32 - \$1.35. |

UK approaches a critical general election

Ahead of the 12th December general election, we have analysed the last seven UK elections as a potential guide as to what UK assets might do both before and after the election – figure 1.

Figure 1: Average asset class moves in seven prior UK elections

| % move 50 days before election | | | |
|--------------------------------|--------|----------|-------|
| | GBPUSD | FTSE 100 | Gilts |
| Labour Win | -0.5 | 2.2 | -2.3 |
| Conservative Win | -0.3 | -1.2 | -0.2 |
| Average | -0.4 | 0.3 | -1.1 |
| % move 50 days post election | | | |
| | GBPUSD | FTSE 100 | Gilts |
| Labour Win | -0.2 | 1.7 | 4.5 |
| Conservative Win | 2.8 | 0.5 | 1.6 |
| Average | 1.5 | 1.0 | 2.8 |
| % move 100 days post election | | | |
| | GBPUSD | FTSE 100 | Gilts |
| Labour Win | -1.6 | 3.0 | 9.9 |
| Conservative Win | 4.8 | -3.2 | 3.5 |
| Average | 2.1 | -0.5 | 6.2 |

Source: Bloomberg as of November 28th 2019. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only. Past performance is no guarantee of future returns. Real results may vary.

There are few clear-cut trends in equities. Gilts have tended to weaken into the election, and on average have rallied 6% higher 100 days post-election. Sterling has moved higher in 5 out of 7 prior elections. On average GBP was 1.5% higher after 50 days, 2.1% higher after 100 days. Excluding May 2005, the average 50 day and 100 moves for GBP were +3.1% and +3.5%.

For the current election the latest YouGov MRP poll indicates a high probability of a Conservative win. This poll merits attention given that the same poll correctly predicted that ex-PM Theresa May would lose her majority in the 2017 election, and it also predicted marginal swing seats such as Kensington & Chelsea and Canterbury would shift from Conservatives to Labour. According to the poll the Conservatives are likely to gain 359 parliamentary seats (out of 650), a gain of 42 from 2017, while also receiving 43% of the vote, which would be the strongest Conservative performance since 1987. Labour are forecasted to win 32% of the vote and 211 seats (losing 51 seats), Lib Dems 13% and 13 seats (gaining 1 seat), while the SNP would win 43 seats (a gain of 8 seats) – figure 2.

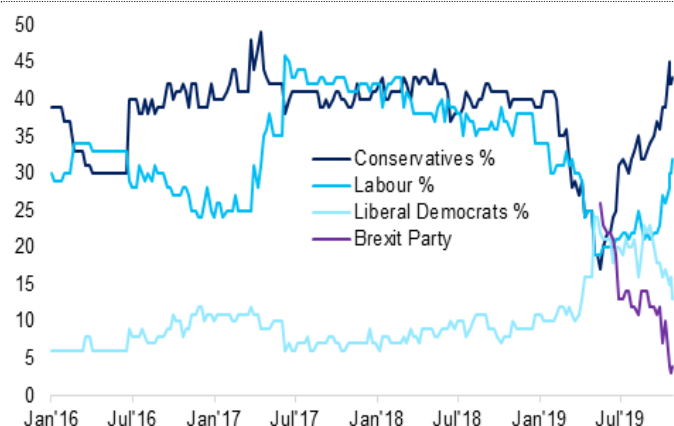
However we cannot have high conviction in the polls and its premature to build a strong bull case for UK assets around a Conservative win. The general election on 12th December is polarized around the Brexit issue. As a consequence there is more fragmentation between parties in the polling data than normal. To complicate matters, there are voters with strong views on whether to leave or remain in the EU that cross traditional party lines. As the general election is not only to elect a leader and parliament, but also subsequently a UK direction for far longer than the five year parliamentary term, media attention is particularly intense and voter emotions are high. This is making the polling more fluid than normal (not forgetting that polls in recent years have not been entirely reliable).

To demonstrate the polling volatility and unpredictability, the last fortnight has started to turn the election into a more traditional two-party contest. Over that period the difference between the Conservative and Labour polling has narrowed from 17% a fortnight ago to 9% currently – figure 3. Over the same period, the Conservatives have gone from 39% to 43%, Labour from 26% to 34%, with both rises coming at

Latest YouGov MRP poll suggests a Conservative majority in election

the expense of the Lib Dems (17% to 13%) and the Brexit Party (10% to 2%) respectively.

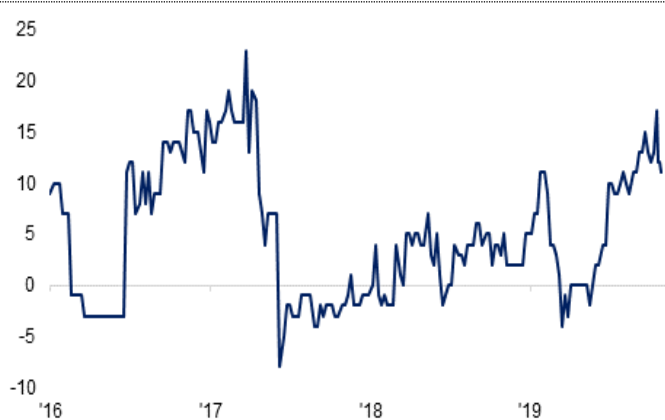
Figure 2: YouGov voting intentions



Source: Bloomberg as of November 26th 2019

Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only. **Past performance is no guarantee of future returns. Real results may vary.**

Figure 3: Conservative lead over Labour



Source: Bloomberg as of November 26th 2019

Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only. **Past performance is no guarantee of future returns. Real results may vary. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events.**

At the same stage ahead of the 2017 election, Labour surged in the polls. This time, for this to happen they need to continue to win voters from the LibDems. The latter's key manifesto policy of revoking Article 50 is not helping them. To add to the possibility of a Labour surge that potentially reduces the Conservative lead further, there are over 30 marginal seats where Labour remain less than 5% behind the Conservatives.

Three election scenarios:

1. Conservative win
2. Hung Parliament
3. Labour win

Given the uncertainty over the polls, we present 3 scenarios. The first is the most positive for Sterling and for UK equities and is our base case, but is not high enough conviction to recommend buying aggressively ahead of the election date. Given that the third scenario (low probability) is possible and would have very negative economic and market consequences, our advice pre-election is to be cautious particularly if already heavily exposed.

Scenario One: Conservative majority

The EU Withdrawal Act would be passed before the end of the Article 50 extension period on 31st January 2020. A Conservative win followed eventually by a 'Canada-style' free trade agreement would not see the erection of tariffs that a 'no deal' exit on World Trade Organization rules would. However, we should stress that the difference would be small. Against this, there would be a pickup in soft economic data like confidence and sentiment for both consumers and businesses, which have been weakening over the summer. Hard economic data like wage growth has been firmer and would likely remain firm.

In the short-term we believe Sterling would rally to \$1.32-\$1.35. UK blue chip equities would lead the rally with solid fundamental support (average 12x and 4.7% dividend yield) attracting underweight investors. A second upleg could be driven by domestics which would benefit most from a firmer economic backdrop, particularly if rapid progress is made with the promised fiscal expansion.

Under this base case scenario, there could be potential longer-term pressures on the UK. The creation of a border down the Irish Sea could strengthen the cause of Irish reunification. The Scottish National Party – which favours independence for

Scotland – may seize upon the separate arrangements for Northern Ireland to push for separate arrangements for Scotland or a new referendum on independence. This seems especially likely if they do particularly well in the general election. We will elaborate on these constitutional pressures in the coming months.

Scenario Two: Hung parliament

This has two possible versions, Labour-led and Conservative-led. Both would lead to continued uncertainty and financial market volatility, however Labour-led would be more likely to test the bottom of trading ranges for both Sterling and UK equities. This is because under a Labour-led coalition there would be a high probability of both a second EU referendum as well as a second Scottish independence referendum. Both of these would be contentious, time-consuming to implement, with uncertain outcomes.

Scenario Three: Labour majority

We believe all three UK asset classes would be significantly adversely impacted. A Labour majority would likely lead to a 'softer' version of Brexit. While a softer Brexit would lead to less immediate economic disruption, Labour's socialist policies would more than offset the benefits.

The main impacts of their socialist policies for investors would be:

1. Much higher fiscal spending of £400 billion which would result in a sharp deterioration of the fiscal deficit (currently 1% of GDP).
2. Foreign direct investment would be held back, and this would be problematic given the UK's twin deficits and weak productivity.
3. The proposed transfer of up to 10% of blue chip equity to workers would create much market uncertainty regarding the price setting mechanism.
4. Widespread nationalization of several industries, including rail, broadband, postal service, and energy.

Further European equity strength is expected

The strong rally in European equities this year has further to go

The strong 22% rally this year has the potential to go further. The 2019 rally has not been on big trading volume, and sizeable institutional inflows are likely ahead. This will be driven mainly by five factors:

Firstly, there are no major elections ahead. At worst there are several countries with weak coalitions. Of those, we will keep monitoring Italy most closely as its economic and bank sector fragility is likely to be exposed when growth eventually turns down.

Secondly, the dividend yield in Europe (average 3.4%) is particularly high in comparison with fixed income yields (average sovereign bond yield of -0.4, and average investment grade bond yield of 0.5%).

Thirdly, new ECB head Ms Lagarde is not expected to adjust the dovish ECB monetary stance, while also [promoting much more fiscal expansion](#) from the countries with the room to do so (notably Germany, Netherlands, Luxembourg). While Europe's likely 1% GDP growth rate remains substantially below the 2.7% global average, if there is a surprise in the coming months it is more likely to be on the upside if some of the fiscal and monetary easing feeds through into the real economy.

Fourthly, European earnings are bottoming after weakening throughout 2019. We expect average 10% EPS growth in 2020, up from 6% this year.

Fifthly, European markets are inexpensive on 15x and 19% cheaper than US equities. Value stocks have significantly underperformed for a prolonged period and some now offer compelling opportunities in 2020. On average European value sectors currently trade 49% cheaper than growth sectors. As the economic cycle matures further, we expect investors to gradually rotate into value where companies tend to have more stable balance sheets, higher dividends, and strong cashflows.

The best value at a sector level is financials, which are still priced well below their book values per share even after a 22% rally off the August lows and despite comfortable average Common Equity Tier 1 (CET1) levels of 13%. A selective approach continues to be necessary. Our favoured banks benefit from falling non-performing loans, improving returns on equity, and above-average dividend yields. ([How to play a turnaround in European Banks](#)). See figure 4.

Cyclicals which are up 14% over the last 3 months, have still to fully discount the likelihood of the European economies participating in the global rebound in manufacturing as US-China trade tensions ease slightly, particularly in the larger economies like Germany where demand has held up relatively well. The inventory buildup could be followed by a corporate capital expenditure pickup next year if the US-EU trade negotiators move towards a broad trade deal.

In addition to manufacturing exporters showing better growth outlooks, we also see growth in Information Technology. Although the sector only accounts for 7% of the broader European indices, European technology firms offer prospective average EPS growth of 18%.

Even as cyclicals rally, traditionally defensive sectors like Healthcare also have strong growth outlooks. For example Swiss healthcare companies are seeing multi-year growth in their earnings, benefitting from increased healthcare spending, ageing populations, and medical technological innovations.

Global manufacturing rebound should support cyclical sectors

Figure 4: Europe-ex-UK sector valuations

| Value Index Weight | Growth Index Weight | Sector | 12m Fwd P/E Ratio (x) | 2020E EPS Growth (%) | P/B Ratio (x) | Dividend Yield (%) | CAPE (x) | 3m Return | YTD Return |
|--------------------|---------------------|-------------------------|-----------------------|----------------------|---------------|--------------------|-------------|------------|-------------|
| 8% | 2% | Communication Services | 16.9 | 11.3 | 2.0 | 4.2 | 17.1 | 1.7 | 5.7 |
| 7% | 13% | Consumer Discretionary | 15.7 | 10.0 | 1.9 | 2.8 | 20.3 | 9.8 | 32.4 |
| 3% | 24% | Consumer Staples | 22.1 | 7.9 | 3.8 | 2.3 | 30.4 | -4.1 | 27.0 |
| 14% | 1% | Energy | 13.1 | 18.3 | 1.2 | 5.2 | 12.5 | 7.5 | 10.3 |
| 33% | 5% | Financials | 10.6 | 6.2 | 0.8 | 5.1 | 13.5 | 13.1 | 19.8 |
| 9% | 18% | Healthcare | 17.5 | 9.0 | 3.3 | 2.5 | 29.7 | 6.6 | 29.3 |
| 7% | 20% | Industrials | 18.5 | 9.0 | 3.0 | 2.6 | 28.9 | 12.0 | 36.2 |
| 1% | 10% | Information Technology | 25.4 | 17.8 | 4.1 | 1.1 | 55.2 | 10.9 | 35.9 |
| 8% | 7% | Materials | 19.9 | 15.3 | 1.9 | 3.6 | 25.8 | 11.2 | 26.4 |
| 8% | 1% | Utilities | 16.1 | 7.9 | 1.7 | 4.4 | 20.0 | 1.3 | 27.6 |
| | | MSCI EUROPE x UK | 16.3 | 9.3 | 1.8 | 3.2 | 22.3 | 7.4 | 26.5 |

Source: Bloomberg as of November 29th 2019. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only. Past performance is no guarantee of future returns. Real results may vary. Colour scale: Green represents better relative valuation / performance, whereas red represents more expensive relative valuation / weak performance.

Turning tide in part of CEEMEA

We believe CEEMEA assets will be supported in the months ahead. A key factor is the turn in the global economic outlook. CEEMEA manufacturing has contracted throughout 2019, although that is now turning. This is happening globally too, with global factories running at below demand levels, indicating an upcoming rebound in global industrial activity. The six largest CEEMEA countries markets have returned on average 42% in the 12 months following global PMI bottoming's. Manufacturing accounts for between 12-24% of GDP for these economies. A second factor is the improving domestic outlooks, particularly in Turkey and Russia – figures 5 and 6.

Turkey:

Fitch upgraded the credit outlook to stable, with the economy expected to return to growth in 2020

The inflation rate dropped to 8.6% y/y, the lowest since December 2016 and a significant drop from the 25% level seen last year (which led the Central Bank of Turkey to hike rates to 24%). This fall in CPI has been driven by greater price stability in the Turkish Lira, softer economic data and the Central Bank of Turkey starting to normalize policy rates. In addition there is an improving currency account position (now a small surplus having run a 6% deficit in mid-2018), and rising FX reserves (up 16% over the last 12 months to \$78.5bn). While President Erdogan's 5% 2020 growth target is ambitious, his move towards slightly more orthodox policymaking is encouraging, especially the 10% drop in rates to 14% which will support bank lending. For growth to be sustainable and unlike the credit-fueled boom in 2017, both structural reform and geopolitical stability will be necessary. Fitch recently reaffirmed the Turkish sovereign rating at BB-, while increasing the outlook from negative to stable.

Turkish equities have returned 17% YTD and could see further upside. Valuations remain cheap (12m forward PE ratio of 5.5x), with consensus estimates pointing to 38% EPS growth in 2020, albeit from a very low base. Financials account for 30% of the index, and the sector could see support from progress in tackling non-performing loans and improved lending as growth picks up. Regarding the Turkish Lira, after the 40% fall in 2018, the Lira has range-traded between TRY 5.60 - 6.00. While rising FX reserves, falling rates and the credit rating outlook upgrade are supportive, the geopolitical landscape and poor investor sentiment may dominate the Lira outlook.

Russia:

An improving economy, easy monetary policy, and possible positive credit rating action could support further upside

The economy has recovered from financial sanctions and the oil price shock in 2014-2015. There is now a current account surplus of 7% and a state budget surplus of 2% of GDP. FX reserves have also improved to \$530 bn, while foreign indebtedness has also fallen. Combined private and public debt has fallen in recent years to \$480 bn, meaning these are comfortably covered by FX reserves. Full-year 2019 growth is expected to be 1.3%. The Central Bank of Russia has cut rates by a total of 125 bps since the summer, including a 50bps cut in October, putting the policy rate at 6.5%, and further central bank easing is expected.

Russian equities are up 31% this year, nevertheless we see further upside. This could be driven by lower sanction risk, easier monetary policy, and the steady oil price. Russian equities look cheap on a valuation basis (6x forward PE) with absolute dividend levels near 7%. Earnings and dividend revision momentum also remain strong. The Ruble has strengthened over 7.4% this year, mainly driven by lower sanction and oil price risks.

Focus is on tackling rising debt, implementing structural form, and reviving growth

South Africa:

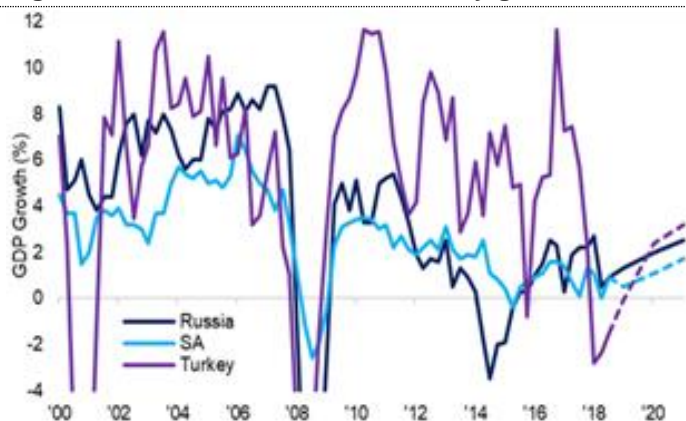
Despite economic improvements under the Ramaphosa Government, economic growth and political stability in SA remain challenges into 2020. With the economy forecasted to only grow 0.5% in 2019, focus will be on the ability of the Government to implement structural reform. Debt to GDP has risen to over 60%, having been at 50% two years ago. The South African budget deficit at 5.3% remains one of the largest in the region (and is expected to widen). Tougher reforms are needed to solve fiscal issues, despite a \$3.4bn reduced spending plan by 2022. Additionally, low tax revenues remain an issue.

South Africa preserved its Investment Grade status with Moody's recently with the Baa3 rating unchanged, however the outlook was downgraded from stable to negative amid slowing economic growth and rising debt.

Two issues to monitor are the February 2020 budget statement, and the struggling state power utility company Eskom whose bailout cost the country \$9.2 billion but is still highly indebted with insufficient cash to meet interest payments.

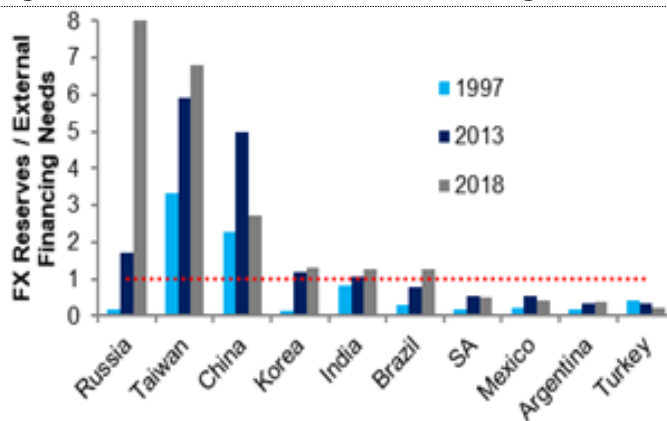
SA equities have risen 2.9% this year, underperforming MSCI EM which is up 9%. SA equities are likely to stay under pressure given the challenging economic outlook, with foreign demand for domestic equities falling to the lowest level in three years. Having survived the Moody's rating decision, the ZAR may benefit from short-term positive sentiment, with the market currently net long. However over the coming months the ZAR may remain under pressure as fading World Cup euphoria, limited structural reform, Eskom pressures and the risk of a potential Moody's downgrade in 1H20 loom.

Figure 5: Russia, South Africa, Turkey growth



Source: Bloomberg as of November 4th 2019. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only

Figure 6: FX Reserves / External Financing Needs



Source: Bloomberg as of November 4th 2019. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only.

Asset allocation definitions

| Asset classes | Benchmarked against |
|---|--|
| Global equities | MSCI All Country World Index, which represents 48 developed and emerging equity markets. Index components are weighted by market capitalization. |
| Global bonds | Bloomberg Barclays Capital Multiverse (Hedged) Index, which contains the government -related portion of the Multiverse Index, and accounts for approximately 14% of the larger index. |
| Hedge funds | HFRX Global Hedge Fund Index, which is designed to be representative of the overall composition of the hedge fund universe. It comprises all eligible hedge fund strategies; including but not limited to convertible arbitrage, distressed securities, equity hedge, equity market neutral, event driven, macro, merger arbitrage and relative value arbitrage. The strategies are asset-weighted based on the distribution of assets in the hedge fund industry. |
| Commodities | Dow Jones-UBS Commodity Index, which is composed of futures contracts on physical commodities traded on US exchanges, with the exception of aluminum, nickel and zinc, which trade on the London Metal Exchange (LME). The major commodity sectors are represented including energy, petroleum, precious metals, industrial metals, grains, livestock, softs, agriculture and ex-energy. |
| Cash | Three-month LIBOR, which is the interest rates that banks charge each other in the international inter -bank market for three-month loans (usually denominated in Eurodollars). |
| Equities | |
| Developed market large cap | MSCI World Large Cap Index, which is free-float adjusted and weighted by market capitalization. The index is designed to measure the equity market performance of the large cap stocks in 23 developed markets. Large cap is defined as stocks representing roughly 70% of each market's capitalization. |
| US | Standard & Poor's 500 Index, which is a capitalization -weighted index that includes a representative sample of 500 leading companies in leading industries of the US economy. Although the S&P 500 focuses on the large cap segment of the market, with over 80% coverage of US equities, it is also an ideal proxy for the total market. |
| Europe ex UK | MSCI Europe ex UK Large Cap Index, which is free-float adjusted and weighted by market capitalization. The index is designed to measure large cap stock performance in each of Europe's developed markets, except for the UK. |
| UK | MSCI UK Large Cap Index, which is free-float adjusted and weighted by market capitalization. The index is designed to measure large cap stock performance in the UK. FTSE 100 Index: Capitalisation weighted index of the 100 most highly capitalised companies traded on the London Stock Exchange FTSE 250 Index: Capitalisation weighted index of the 250 most highly capitalised companies outside of the FTSE 100 traded on the London Stock Exchange |
| Japan | MSCI Japan Large Cap Index, which is free-float adjusted and weighted by market capitalization. The index is designed to measure large cap stock performance in Japan. |
| Asia Pacific ex Japan | MSCI Asia Pacific ex Japan Large Cap Index, which is free-float adjusted and weighted by market capitalization. The index is designed to measure the performance of large cap stocks in Australia, Hong Kong, New Zealand and Singapore. |
| Developed market small and mid-cap (SMID) | MSCI World Small Cap Index, which is a capitalization-weighted index that measures small cap stock performance in 23 developed equity markets. |
| Emerging market | MSCI Emerging Markets Index, which is free-float adjusted and weighted by market capitalization. The index is designed to measure equity market performance of 22 emerging markets. |
| Bonds | |
| Developed sovereign | Citi World Government Bond Index (WGBI), which consists of the major global investment grade government bond markets and is composed of sovereign debt, denominated in the domestic currency. To join the WGBI, the market must satisfy size, credit and barriers-to-entry requirements. In order to ensure that the WGBI remains an investment grade benchmark, a minimum credit quality of BBB-/Baa3 by either S&P or Moody's is imposed. The index is rebalanced monthly. |
| Emerging sovereign | Citi Emerging Market Sovereign Bond Index (ESBI), which includes Brady bonds and US dollar -denominated emerging market sovereign debt issued in the global, Yankee and Eurodollar markets, excluding loans. It is composed of debt in Africa, Asia, Europe and Latin America. We classify an emerging market as a sovereign with a maximum foreign debt rating of BBB+/Baa1 by S&P or Moody's. Defaulted issues are excluded. |
| Supranationals | Citi World Broad Investment Grade Index (WBIG)—Government Related, which is a subsector of the WBIG. The index includes fixed rate investment grade agency, supranational and regional government debt, denominated in the domestic currency. The index is rebalanced monthly. |
| Corporate investment grade | Citi World Broad Investment Grade Index (WBIG)—Corporate, which is a subsector of the WBIG. The index includes fixed rate global investment grade corporate debt within the finance, industrial and utility sectors, denominated in the domestic currency. The index is rebalanced monthly. |
| Corporate high yield | Bloomberg Barclays Global High Yield Corporate Index. Provides a broad-based measure of the global high yield fixed income markets. It is also a component of the Multiverse Index and the Global Aggregate Index. |

| | |
|-------------|---|
| Securitized | Citi World Broad Investment Grade Index (WBIG)—Securitized, which is a subsector of the WBIG. The index includes global investment grade collateralized debt denominated in the domestic currency, including mortgage - backed securities, covered bonds (Pfandbriefe) and asset -backed securities. The index is rebalanced monthly. |
|-------------|---|

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Bond rating equivalence

Alpha and/or numeric symbols used to give indications of relative credit quality. In the municipal market, these designations are published by the rating services. Internal ratings are also used by other market participants to indicate credit quality.

| Bond credit quality ratings | Rating agencies | | |
|---|----------------------|----------------------------------|----------------------------|
| | Moody's ¹ | Standard and Poor's ² | Fitch Ratings ² |
| Investment Grade | | | |
| Highest quality | Aaa | AAA | AAA |
| High quality (very strong) | Aa | AA | AA |
| Upper medium grade (Strong) | A | A | A |
| Medium grade | Baa | BBB | BBB |
| Not Investment Grade | | | |
| Lower medium grade (somewhat speculative) | Ba | BB | BB |
| Low grade (speculative) | B | B | B |
| Poor quality (may default) | Caa | CCC | CCC |
| Most speculative | Ca | CC | CC |
| No interest being paid or bankruptcy petition filed | C | D | C |
| In default | C | D | D |

1 The ratings from Aa to Ca by Moody's may be modified by the addition of a 1, 2, or 3 to show relative standing within the category.

2 The ratings from AA to CC by Standard and Poor's and Fitch Ratings may be modified by the addition of a plus or a minus to show relative standing within the category.

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Changes in Regulatory or Tax Treatment of Energy Related MLPs. If the IRS changes the current tax treatment of the master limited partnerships included in the Basket of Energy Related MLPs thereby subjecting them to higher rates of taxation, or if other regulatory authorities enact regulations which negatively affect the ability of the master limited partnerships to generate income or distribute dividends to holders of common units, the return on the Notes, if any, could be dramatically reduced. Investment in a basket of Energy Related MLPs may expose the investor to concentration risk due to industry, geographical, political, and regulatory concentration.+

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Additionally, the underlying collateral supporting non-Agency MBS may default on principal and interest payments. In certain cases, this could cause the income stream of the security to decline and result in loss of principal. Further, an insufficient level of credit support may result in a downgrade of a mortgage bond's credit rating and lead to a higher probability of principal loss and increased price volatility. Investments in subordinated MBS involve greater credit risk of default than the senior classes of the same issue. Default risk may be pronounced in cases where the MBS security is secured by, or evidencing an interest in, a relatively small or less diverse pool of underlying mortgage loans.

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| Asia Pacific | Europe & Middle East | Latin America | North America |
|--|--|--|---|
| Ken Peng Asia Investment Strategist +852.2868.8904 Ken.peng@citi.com | Jeffrey Sacks EMEA Investment Strategist +44.207.508.7325 Jeffrey.ian.sacks@citi.com | Jorge Amato LATAM Investment Strategist +.212.559.0114 Jorge.amato@citi.com | Steven Wieting Global Chief Investment Strategist +1.212.559.0499 Steven.wieting@citi.com |
| Catherine Cheung Asia Investment Strategy +852.2298.6119 Catherine.mw.cheung@citi.com | Shan Gnanendran, CFA EMEA Investment Strategy +44.207.508.0458 Shan.gnanendran@citi.com | | Kris Xippolitos Fixed Income Strategist +1.212.559.1277 Kris.xippolitos@citi.com |
| | Maya Issa Global Investment Strategy +971.4604.4326 Maya.issa@citi.com | | Wietse Nijenhuis Equity Strategist +1.212.559.0341 Wietse.nijenhuis@citi.com |
| | | | Charlie Reinhard North America Investment Strategist +1.212.559. 6251 Charles.l.reinhard@citi.com |
| | | | Joseph Kaplan Global Investment Strategy +1.212.559.3772 Joseph.kaplan@citi.com |
| | | | Malcolm Spittler Global Investment Strategy +1.212.559.8651 Malcolm.d.spittler@citi.com |
| | | | Joseph Fiorica Global Investment Strategy +1.212.559.3473 Joseph.fiorica@citi.com |