

Encouraging financial conditions lead to modest step up in economic growth:

The search for upside and yield

2020

Clearbrook Research: Economic and Investment Outlook

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Outsized Asset Returns supported by central bank stimulus will need economic and earnings growth in 2020

- ◆ The year 2019 achieved its highest returns for equities and fixed income jointly since the late 1990's. Equities closed out one of the best performance decades on record, but last year's appreciation was driven by P/E expansion rather than an improvement in corporate earnings. Earnings are projected to end up flat in the U.S. and Europe, negative for the UK, Asia and Japan for 2020. The dramatic global equity market correction in December 2018 provided a cheap base to rally from, and was further helped by policy easing from the central banks and hopes for growth stabilization.
- ◆ Economists expect an improvement in global growth next year driven by continued job and wage growth, robust consumer spending and an anticipated rebound in business sentiment and spending as geo-political risks recede. The joint announcement of the Phase One trade deal points to détente for the U.S. and China through the U.S. election, imminent approval of the USMCA, and the Conservative Party landslide in the UK bringing greater clarity to Brexit represent positive steps towards improved growth.
- ◆ The reflation trade we expect in 2020 should not be hampered as previously seen over the past several decades, as the U.S. Fed has a very high bar to reach before considering any rate hike. The Fed will be data dependent regarding any further rate action, as it will monitor incoming economic data as it "assesses the appropriate path" of interest rates. There are expectations for a stabilization of growth in China, and for Non-U.S. regions to close the growth differential with the U.S.
- ◆ Projections for earnings growth range from 8.0% in Europe to 13.0% for the Emerging Markets. Earnings for Europe and Japan are rebounding from a negative showing of -1.0% and -4.9% respectively. Return expectations in 2020 for global equities will be lower than the stellar showing of 2019, roughly in the range of 7.0% to 12.0%. After the spectacular returns seen this year, the global equity markets are trading at reasonable forward multiples, Emerging Markets (12.3) Euro-zone (13.8) Japan (14.3) and the U.S. (18.0).
- ◆ From a style perspective, we see tactical opportunities in cyclicals and value, though we wait for greater confirmation from a sentiment and capital flow standpoint before seeing a true rotation from growth. The overall environment of low interest rates and inflation, moderate growth and low bond yields favors high quality growth companies. The normalization of global growth has Clearbrook favoring EM, Japan and the U.S., with a benchmark weighting to the Euro-zone.
- ◆ In Alternatives, we see central bank policy, future trade issues and the synchronized stabilization of global growth affecting global markets by prompting periods of calm and volatility. In Hedge funds, we prefer strategies with a neutral market bias and the ability to generate positive carry. In commodities, we can see a rebound in industry and precious metals. With private equity, infrastructure and real estate as core and defensive assets fairly valued to expensive, we prefer investments involved in transformative trends (disruptive technology) and assets where the investment manager can actively enhance valuations.

Overview

Synchronized global growth stabilization and the potential for re-acceleration

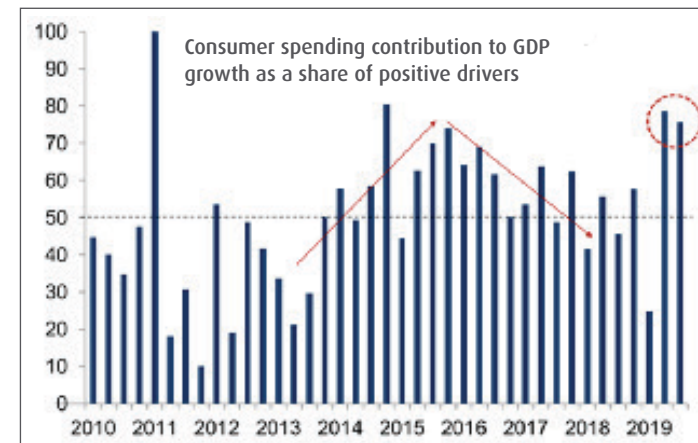
- ◆ The global economy should see a recovery in growth fostered by stabilization in China, which in turn improves the prospects for the Emerging Markets, a pick-up in Europe and fading of the outperformance and now convergence of steady growth in the U.S.
- ◆ Global growth will have the tail wind of accommodative monetary and fiscal policy. In 2019, ninety-eight central banks have lowered interest rates sixty-nine times by an aggregate of 6701 basis points according to the Global Interest Rate Monitor published by the Central Bank News. This should encourage capital and infrastructure spending and the effects on FX will be a key determinant in policy decisions.
- ◆ An assessment of global trade will entail the assessment of how trade negotiations and agreements will impact specific regions and countries. After coming to a verbal agreement on a Phase One deal between the U.S. and China, what will the impact be on global trade in 2020, as we expect that further negotiations will occur after the November 2020 Presidential election. Further resolution of trade issues between the U.S., Europe, UK and China would be beneficial, particularly to Emerging Market countries.
- ◆ The U.S. Consumer was a significant driver to global growth in 2019, powered by the lowest UE rate since 1969 and improved wage growth across supervisory and non-supervisory positions. Will the consumer be aided in 2020 by improvements in Cap-Ex, industrial production and a revival in the real estate sector spurred on by lower interest rates?

ECB Forecast for GDP Growth and Inflation

	2019E	2020E	2021E
GLOBAL	3.0	3.2	3.5
G10	1.7	1.3	1.5
U.S.	2.3	1.8	1.9
Euro Area	1.2	0.9	1.2
Japan	0.9	0.0	0.7
UK	1.2	1.4	2.0
Emerging Markets	3.9	4.4	4.7
China	6.1	6.0	5.9
India	5.0	6.3	6.8
Brazil	0.8	2.2	3.1
Russia	1.2	1.7	2.0

Source: Haver Analytics, IMF

Consumer Spending Driving GDP Growth Solo



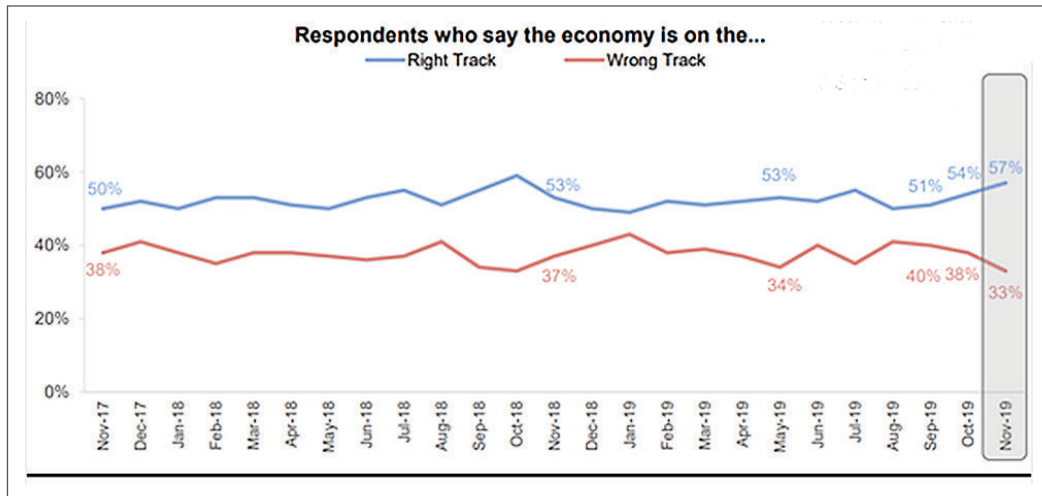
Source: Oxford Economics, Haver Analytics

U.S.

U.S. Economic growth remains stable supported by the consumer and improvements in Cap-Ex and Housing

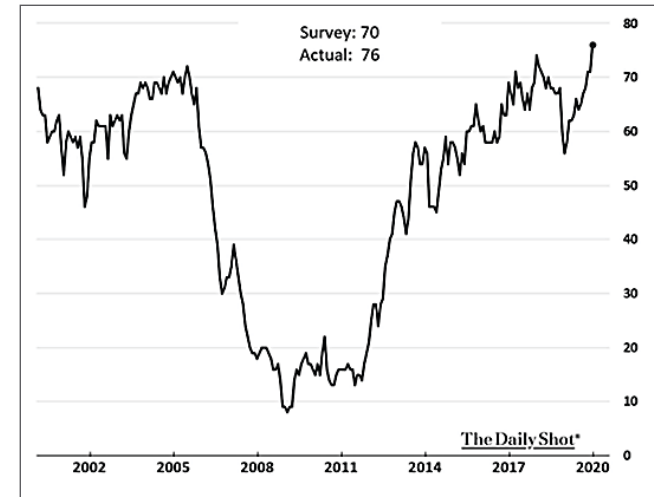
- ◆ Economic forecast for U.S. GDP, the consensus is for 1.8%. The primary driver will be the U.S. consumer as the U.S. unemployment rate hit 3.5%, the lowest level since 1969 and year over year wage growth is a healthy 3.1%.
- ◆ A potential tailwind to U.S. economic growth will be the residential housing sector, which has been supported by a drop in 30 year mortgage rates which peaked out in October 2019 at about 5.0% and has fallen to an average rate of 3.99%. The NAHB homebuilder optimism index has hit a multi-year high, prospective home buyer traffic is strong and residential construction is robust.
- ◆ Improvement has been seen in the moribund sector of U.S. Industrial Production. Production has picked up due to resolution of the United Auto Workers strike, and projected improvement should come from the revival of global trade and increase in Cap-Ex and infrastructure spending.

Consumer Confidence in the Economy Continues to Strengthen



Source: Fannie Mae. Trademarks of Fannie Mae

NAHB Home Builder Optimism



Source: The Daily Shot

Europe

Euro-zone growth will slow before recovering in 2021

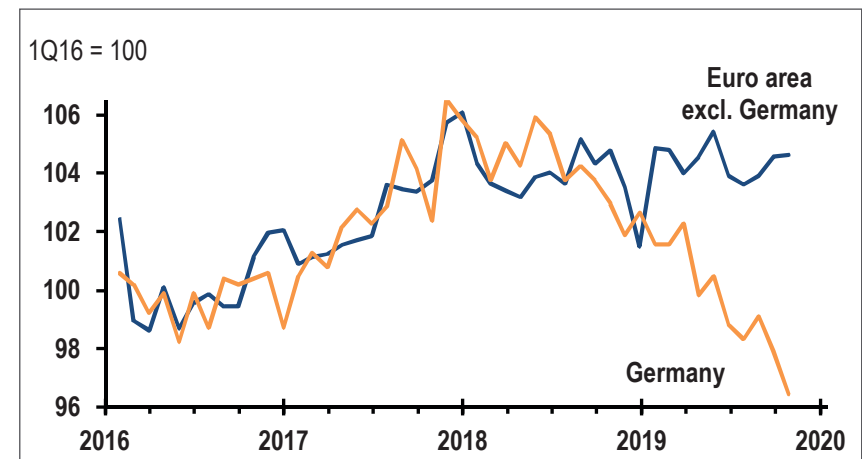
- ◆ Euro-zone GDP growth for 2020 is projected to slow to 1.1%. (See chart below.) This is due to the continued weakness in industrial production out of Italy and auto production out of Germany. We are seeing an increase in M1 due to monetary stimulus from the ECB, and any semblance of fiscal stimulus along with resolutions to “Brexit” and the U.S./China trade negotiations should lead to a rebound in growth 2021.
- ◆ Economic data improved during Q4 2019 as the regions industrial production actually improved ex-Germany, with growth seen in new orders and inventory components. In addition, German exports surprised on the upside which should provide support for GDP growth.
- ◆ Expectations are for an increase in consumer and government spending through 2021. Private consumption growth improved in 2019 to 1.5%, due to a stabilizing savings rate and solid real income growth. Positive wage growth, accommodative monetary and fiscal policies, and low unemployment will carry through 2021.

ECB Forecast for GDP Growth and Inflation

	%oya							
	GDP				Core HICP			
	2019	2020	2021	2022	2019	2020	2021	2022
Dec 17	1.9	1.7	-	-	1.5	1.8	-	-
Mar 18	1.9	1.7	-	-	1.5	1.8	-	-
Jun 18	1.9	1.7	-	-	1.6	1.9	-	-
Sep 18	1.8	1.7	-	-	1.5	1.8	-	-
Dec 18	1.7	1.7	1.5	-	1.4	1.6	1.8	-
Mar 19	1.1	1.6	1.5	-	1.2	1.4	1.6	-
Jun 19	1.2	1.4	1.4	-	1.1	1.4	1.6	-
Sep 19	1.1	1.2	1.4	-	1.1	1.2	1.5	-
Dec 19	1.2	1.1	1.4	1.4	1.0	1.3	1.4	1.6

Source: ECB, J.P. Morgan

Euro-zone Industrial Production



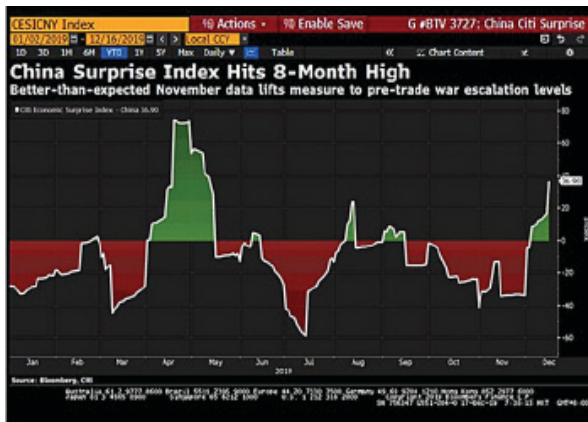
Source: Eurostat, J.P. Morgan

Asia

Asia growth seeks to find a base as monetary and fiscal stimulus offset economic headwinds

- ◆ Economic growth in the region should be helped by a stabilization of growth in China, which is projected at 6.0% for 2020 versus 6.1% in 2019. Some “green shoots” are beginning to show as seen in the Citigroup China Economic Surprise Index, with recent uptrends in the Caixin manufacturing and Services PMI, stabilization in imports/exports and corporate profits. Growth though does remain vulnerable to still tight monetary conditions.
- ◆ China at its annual Central Economic Work Conference (CEWC) set out policies for 2020, focusing on improvements to support social welfare and stability. Expectations are for the government to provide fiscal stimulus in the form of infrastructure and consumption spending, and for the PBOC to possibly cut the RRR rate.
- ◆ For Japan, economic growth is estimated to fall from 0.9% this year to 0.0% in 2020, as growth will slow due to the effects of the increased in consumption that took place in Q3 ahead of the rise in the consumption tax from 8.0% to 10%. Japan is also hampered by a tight labor market and waning private sector demand.
- ◆ A revival in growth is projected for the second half of 2020 as the government has implemented a ¥13.2 trillion (\$120 billion) fiscal stimulus package to offset the increase in consumption tax and negative effects caused by typhoons. The current conditions and direct investment survey bounced off eight year lows seen in October, which supports the recent improvements in business and consumer sentiment.

Citigroup China Economic Surprise Index



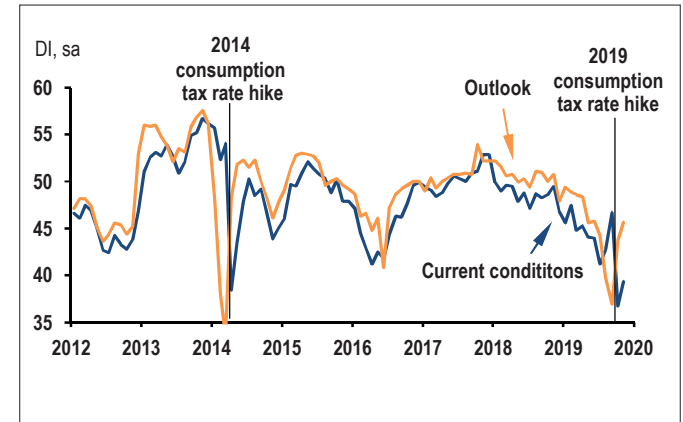
Source: @DavidIngles.com

China Services PMI



Source: WorldEconomic.com

Japan Economic Current Conditions and DI



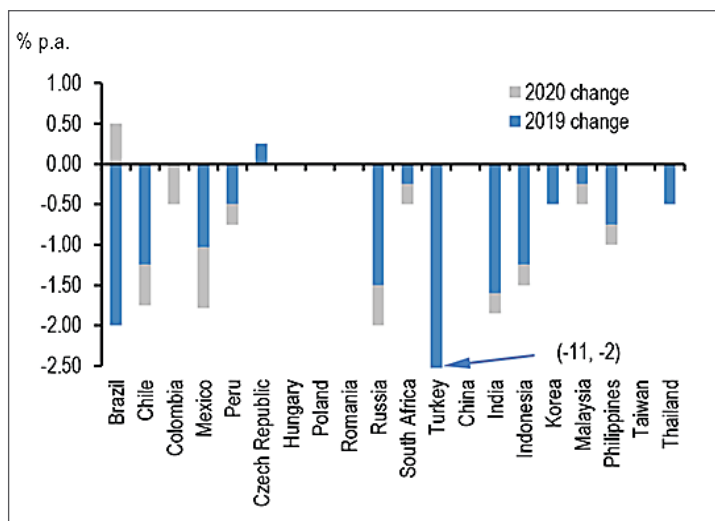
Source: CAO, J.P. Morgan

Emerging Markets

Emerging Market growth increases due to monetary stimulus and improvements in business sentiment

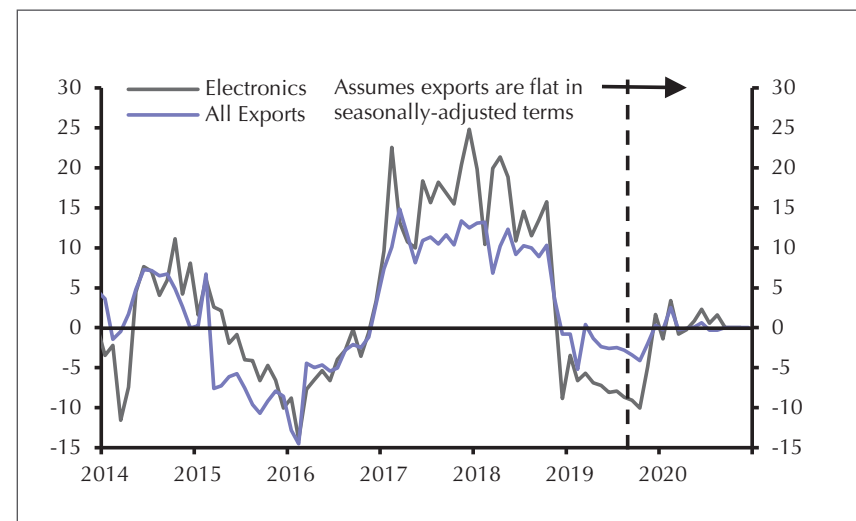
- ◆ Emerging Market growth is projected to increase to 4.4% from 3.9% estimated for 2019. The rebound is expected to be supported by the positive forward effects of monetary easing in 2019, fiscal stimulus in EM Asia and improvement in business sentiment prompted by the announcement of the U.S./China Phase One trade deal.
- ◆ Central banks in the Emerging Markets will continue to lower interest rates, taking advantage of the rate cuts enacted by developed market countries and low rates of inflation. In addition, expectations are for EM countries with stronger financials such as low levels of public debt and primary surpluses to further loosen fiscal policy. Countries such as Russia, Taiwan and South Korea are in such a position.
- ◆ Emerging Market exports fell approximately 1.5% in 2019 (see chart below) due to the negative effects from the U.S./China tariff war, lower commodity prices and decline in Asian electronic exports. Exports are expected to recover due to an unwinding of trade uncertainty, improved economic growth and a commensurate rise in the price of growth sensitive commodities such as oil and copper.

EM Countries Continue to Lower Interest Rates



Source: J.P. Morgan

Emerging Asia Exports (USD year over year)



Source: Bloomberg, Capital Economics

Asset Class Outlook

- ◆ Global economies should see a revival of growth in 2020, muted by historical standards and subject to uneven growth across regions. The U.S. economy should be able to sustain growth through loose Fed policy and healthy consumer consumption, while we expect sub-par growth in Europe and a moderate slowing the China. This outlook can be affected by any positive or negative turns in the global trade negotiations.
- ◆ The stellar returns from global equities in 2019 essentially recovered all of the losses and more seen in 2018. Global equities in 2018 dropped due to geo-political uncertainty, despite in many cases, record corporate earnings. In 2019, global equities rose to record highs despite flat to negative earnings due to loosening monetary and fiscal policy. We will need earnings growth to push equity prices higher, as opposed to the P/E expansion seen this year.
- ◆ The U.S. Presidential election will be a potential inflection point for U.S. equities due to the dramatic policy differences between the Republican and the Democratic parties. In addition, we can expect a bit of mean reversion in U.S. equity performance versus other Developed and Emerging Markets.
- ◆ Global fixed income markets witnessed sovereign debt yields fall towards historical lows during the fall, driving the yield of an estimated \$16 trillion of bonds into negative territory. Central banks should continue to pursue loose monetary policies and with few signs of inflation, rates should remain in a reasonable trading range.

Asset Class Outlook

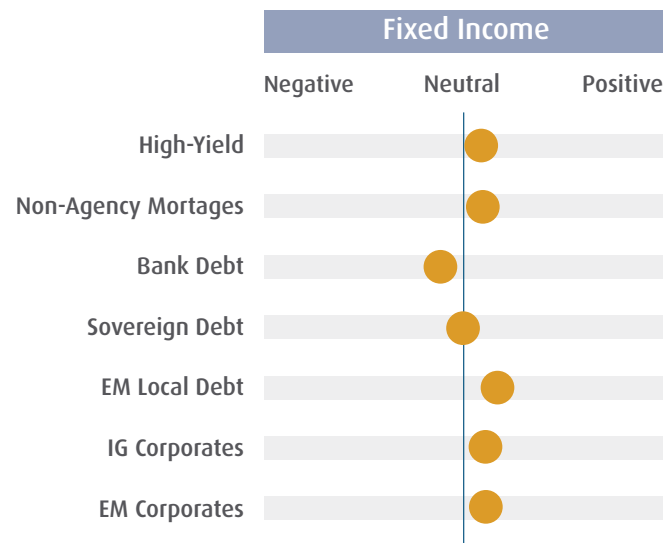
The duel search for upside appreciation and yield

- ◆ Global Equity markets should appreciate in 2020 due to accommodative monetary and fiscal policy, a stabilization and improvement in economic growth and corporate earnings. Projections are for a mid-single digit and low double digit returns for the U.S., Europe and Emerging Markets.
- ◆ Yields for global sovereign debt are still low by historical standards (U.S., Europe and Japan), thus value will need to be found in the below investment grade sector and securitized credit. Returns should range from -0.5% to mid-single digits for fixed income.
- ◆ The USD should be flat to lower as the Fed is on hold, inflation is subdued, investor's need for a safe haven has subsided, and the call for convergence of growth between the U.S. and other developed and emerging market countries.
- ◆ Commodities should benefit from the re-inflation of global economies with a switch from precious to industrial metals and energy.
- ◆ Hedge funds will take advantage of valuation discrepancies across asset classes, regions and securities through deep fundamental research. Favor low net strategies that can take advantage of idiosyncratic events and tactical opportunities due to market volatility.
- ◆ Private markets investing due to stretched valuations and large capital pools chasing returns, will need investors to find managers and strategies that can create value in sub strategies that offer above average growth rates.

Fixed Income

High Valuations prompt search for returns through positive carry and potential for spread compression

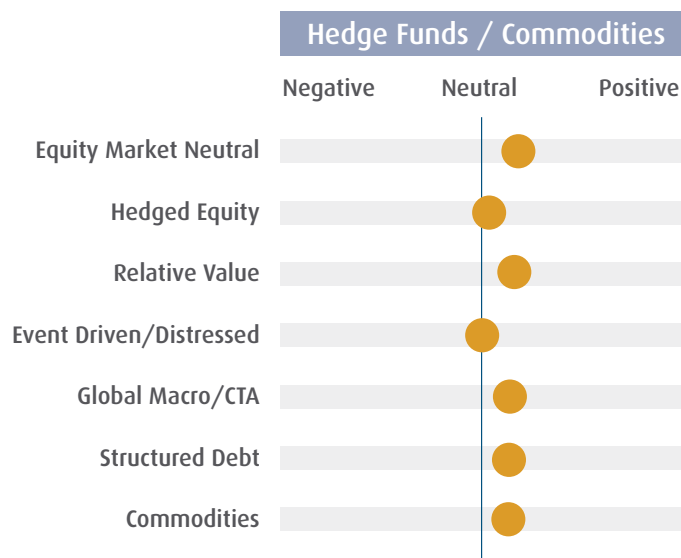
- The U.S. Fed, the BOE and ECB are on hold with a bias for further easing should permit investors to take a duration neutral benchmark positioning, favoring higher quality bonds in high-yield, EM and securitized credit, while sovereign debt is more than fairly priced.
- In the U.S., the back drop of strong employment, wage growth and consumer spending should support the MBS and ABS sectors. The recent spike in mortgage refinancings and issuance in CMBS has caused a spread widening, creating opportunities in the investment grade sector. Higher quality high-yield is attractive as the current yield is 6.09% with a spread of 439 bps versus Treasuries, and default rates are hovering around 2.0%.
- In Europe, low sovereign debt yields at the core, lead investors to peripherals and countries such as Italy to enhance yields. High-grade corporates are supported by ECB buying and higher quality non-investment grades by investors seeking yield.
- In Emerging Markets, the higher yields and their attractiveness are due to expectations for the EM-DM GDP gap to widen, accommodative central bank policy and stabilization of the USD versus EM currencies.



Hedge Funds / Commodities

Hedge Funds benefit from asset price dispersion, commodities are supported by reflation with rotation from defensive to economically sensitive sectors

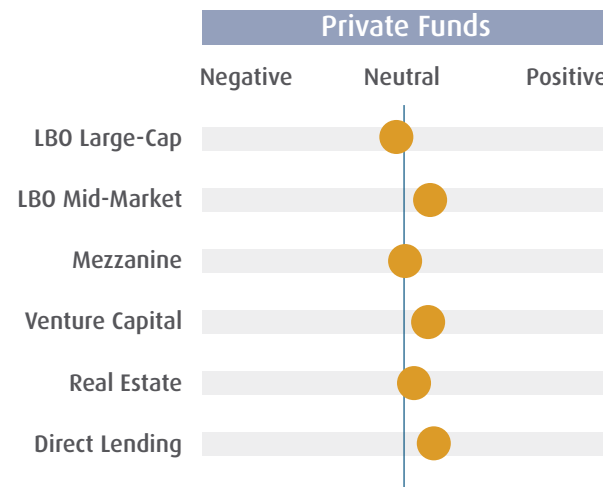
- Discretionary Macro should benefit from potential changes in central bank policy, bouts of volatility, and perceptions of uneven global economic growth and illiquidity across sectors and asset classes in the Emerging Markets.
- Long/Short Equity market neutral should find opportunities with equity prices influenced by interest rate policies, on-going global trade negotiations and continuation of Middle East and Hong Kong tensions. Dispersion in corporate earnings across regions and sectors and the high valuations of individual stocks and industry groups present profit opportunities.
- In Relative Value Arbitrage, alterations of central bank policies and geo-political uncertainty can drive opportunities in fixed income trading.
- In Commodities, the re-flation outlook for global growth, improvements in global trade and improvements in global PMI's should lead to increased demand for energy and base industrial metals. Gold serves as a hedge against geo-political risk, but the outlook is lackluster due to the lessening of recessionary pressures and the potential for a recovery in global manufacturing and growth.



Private Equity/Real Estate/Direct Lending

Stretched valuations necessitates finding value creation and transformative trends and avoid overpaying for cash flow

- Private funds are in late cycle and popular investments in defensive sectors offering stable cash flow have seen yields compressed and valuations stretched. This leads us to search for a proactive approach to the private fund market where investment managers can enhance valuations and generate attractive returns.
- In Private Equity, we recommend funds that can identify transformative trend driven growth, where structural technological or demand patterns cause sectorial shifts. Examples are investments involved with the aging global population, financial digitization (cashless payment), healthcare IT (telemedicine) and analytical/machine learning technology.
- Core real estate cap rates have declined as it has been a popular alternative source of income. As such, we prefer a thematic approach focusing on high population and employment growth areas such as adaptable office and logistics properties, and combined residential and office properties that cater to living and work lifestyles.
- Secondaries are attractive, particularly those portfolios of recent vintages (2-5 years old) managed by high quality and leading GPs where there can be value creation, high visibility to the underlying assets and no longer has the J curve effect.



Timothy C. Ng, Chief Investment Officer

Tim joined the firm in 2010 and is Chief Investment Officer and Head of the Clearbrook Investment Committee. Within this role, Tim is involved in global macro and manager research, portfolio analysis and risk management. Prior to Clearbrook, Tim was President and Chief Investment Officer of Structured Investments Group, LLC. He began his career in 1982 and has served as an alternative investment and hedge fund advisor in numerous capacities. Previously, Tim was a Managing Partner with Access International Advisors and has held the title of Senior Vice President in varying roles at Prudential Securities, Smith Barney, and Oppenheimer & Company. During his career, Tim was one of the first advisors to place investor capital into hedge funds, portable alpha portfolios, structured/hedge fund linked notes, and insurance dedicated hedge fund products. He has had oversight of more than \$5 billion of investor capital on behalf of corporations, pension funds, endowments and foundations, banks, investment advisory firms, and family offices. He has been a holder of securities licenses Series 3, 7, 24, 63 and 65. Tim received a BA in Economics from Stony Brook University and an MBA with honors from Long Island University.

Mark N. Hong, CFA, Managing Director, Head of Research

Mark joined Clearbrook in 2010 and is a Managing Director and Head of Research, responsible for manager research, capital markets research, due diligence, structured finance and corporate analysis. Prior to Clearbrook, Mark was co-founder and Principal of Structured Investments Group, LLC. Previously, Mark held several roles at Sands Brothers & Co., Ltd., serving as a Vice President in their asset management division, where he was a member of the firm's Investment and Manager Selection Committees. Mark also served as Director of Research and Vice President of their Critical Capital Growth Fund, LP, where he completed several senior secured and mezzanine debt transactions. During his career, Mark has been involved in the sourcing, evaluation, structuring, financing, and monitoring of numerous transactions. Before joining Sands Brothers, Mark served as an Analyst with Prudential Financial's Asset Management Division, where he supported the investment grade corporate trading desk. He is a CFA Charterholder and is a member of the New York Society of Securities Analysts and received a BBA in Financial Engineering from James Madison University.

Jon Chesshire, Managing Director, Head of ESG/Impact Investing

Jon joined Clearbrook in 2009. In addition to heading up the firm's ESG efforts, Jon is currently responsible for consulting to high-net-worth individuals, endowments and foundations, and pensions. Jon has held senior investment positions in ESG research, portfolio management and manager research throughout his career. He has worked at Emergent Investments as CIO, a Managing Director at Overture Investments, Lockwood Advisors, Inc. as a former partner and portfolio manager, and performed manager due diligence for Merrill Lynch's Consulting Group. Jon received a BBA and MBA from Temple University and is currently pursuing a MLA at Harvard. Jon has 27 years of investment experience.

Eric Blasberg, Managing Director

Eric joined Clearbrook Investment Consulting, formerly known as Shields Associates, in 1998 after having graduated from Colgate University where he received his BA in Economics. Eric is an institutional consultant to corporate Defined Benefit and Defined Contribution clients, as well as endowment and foundation clients. His current responsibilities at Clearbrook include client consulting, asset allocation studies, and manager research. He is a CFA Charterholder and a member of CFA Institute and the New York Society of Security Analysts. He has 16 years of consulting experience.

Fernando Garip, Managing Director, Director of Portfolio Strategy

Fernando is a 2019 addition to the Clearbrook team as Managing Director, Director of Portfolio Strategy. He's a former President, New Jersey Wealth Advisory Services, Wilmington Trust N.A. and has over 25 years of experience in Investment Management and related Bank investment fields. His career accomplishments are highlighted by a proven and public track record of equity and fixed income investment performance and years of success in gathering assets and attracting talented professionals.

Prior to joining Wilmington Trust, Mr. Garip was a regional director at TD Wealth Management in New York, and earlier served as Director of Commerce Bank's Asset Management Group, a predecessor organization of TD. At Commerce, where he established the division in 2000, growing AUM's to over \$3.8 Billion in less than seven years. He led the investment policy committee and set guidelines for the division while managing professional staff from New York to Florida. Under his leadership, the unit achieved impressive top-line growth and profitability.

Today, Mr. Garip is a regular speaker on a variety of investment topics throughout the region at conferences and other forums offering a real world view on an array of positions ranging from global economic trends to portfolio theory. Fernando holds a Bachelor's degree from Villanova University and is a graduate of the Executive Management Program at the Kennedy School of Government, Harvard University. He serves on a number of boards and civic organizations throughout the New York City metropolitan region.

Austin Haymes, Senior Analyst

Austin is a Senior Analyst at Clearbrook, responsible for manager research, capital markets research, due diligence, and client deliverables. Austin joined Clearbrook in 2017 from Vassar College where he received his BA in Economics and was a member of the men's lacrosse team. Austin has passed all three levels of the CFA Program and may be awarded the charter upon completion of the required work experience.

Julia Perdigao, Senior Analyst

Julia joined Clearbrook in 2017 and is responsible for manager research, performance and investment analysis, asset allocation modeling, and client reporting. Julia works closely with the Head of ESG Research to find new opportunities and initiatives in the space. Julia has primary reporting coverage responsibilities for 15 clients. Prior to joining Clearbrook, Julia worked in the financial development department with the Lupus Research Alliance. Julia received her BA from Boston College.

Clearbrook will help you make sure you're not just sourcing, but **Rightsourcing**sm the management of your investment portfolio. Clearbrook can help you objectively evaluate your needs from total-portfolio to asset-class-specific solutions. Our solutions are flexible, transparent and customizable, structured at a level that makes sense for your resources, objectives and risk tolerance.

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