

Market Intelligence

THE LATEST THINKING FROM OUR ASSET MANAGEMENT NETWORK





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Best Financial Services Interactive Application and Best Financial Services Mobile Application Awards 2018



Mutual Fund Education Alliance STAR Awards 2015, 2017, and 2018

Internet Advertising Competition (IAC) Awards are given for excellence in digital marketing across dozens of industries. Entries are judged on a number of criteria and compete head to head with other entries within their specific category. Mutual Fund Education Alliance STAR Awards are selected from hundreds of entries by a panel of mutual fund marketing and communications executives based on effectiveness, messaging, educational value, innovation, user experience, and design. NOT FDIC INSURED. MAY LOSE VALUE. NO BANK GUARANTEE. NOT INSURED BY ANY GOVERNMENT AGENCY.

What you'll find

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A trusted brand

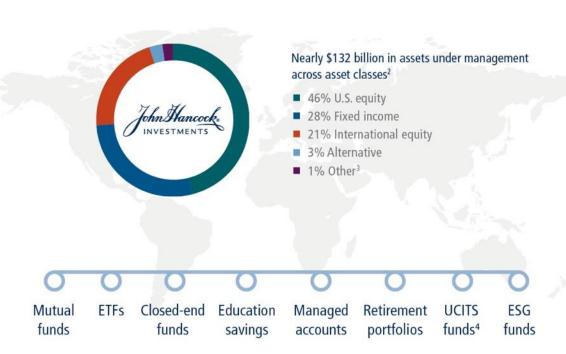
John Hancock Investments is a premier asset manager representing one of America's most trusted brands, with a heritage of financial stewardship dating back to 1862. Helping our shareholders pursue their financial goals is at the core of everything we do. It's why we support the role of professional financial advice and operate with the highest standards of conduct and integrity.

150 years of promises kept

From our earliest days as a four-person operation on Boston's State Street, John Hancock has grown to include a diversified global investment firm.

The New York Times named John Hancock one of the most powerful brands of the 20th century.1

Diverse capabilities to help serve our clients

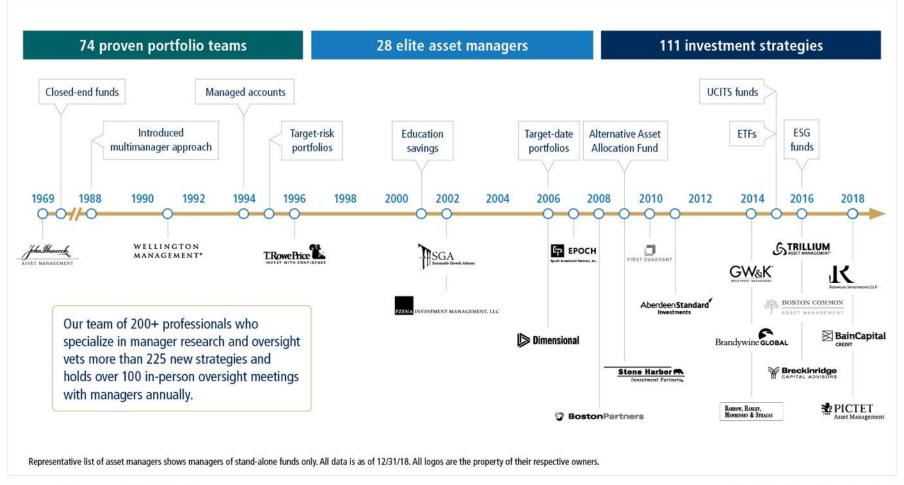


Data is as of 12/31/18.

¹ The New York Times, 1999. 2 \$89 billion in retail mutual fund and ETF assets and \$43 billion in retirement assets, including seed capital. 3 Includes money market funds, hybrid funds, and fund-of-fund allocations to unaffiliated products. 4 Not all funds are available to all investors. Funds domiciled outside the United States are not available to U.S. persons.

A better way to invest

We serve investors globally through a unique multimanager approach: We search the world to find proven portfolio teams with specialized expertise for every strategy we offer, then we apply robust investment oversight to ensure they continue to meet our uncompromising standards and serve the best interests of our shareholders.



Results for investors

Our unique approach to asset management enables us to provide a diverse set of investments backed by some of the world's best managers, along with strong risk-adjusted returns across asset classes.



50 funds rated 4 or 5 stars by Morningstar at the highest-rated share class1





77% of funds outperformed their Morningstar category averages over the past 10 years²



Our performance is the result of our multimanager approach and our focus on finding and overseeing the best portfolio teams.

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1 As of 12/31/18. Includes mutual fund and ETF rankings/ratings only, excluding UCITS funds. Out of 89 funds rated by Morningstar, 4 funds received a 5-star overall rating and 46 funds received a 4-star overall rating. Ratings are counted at the highest-rated share class. For each managed product, including mutual funds, variable annuity and variable life subaccounts, exchange-traded funds, closed-end funds, and separate accounts, with at least a 3-year history, Morningstar calculates a Morningstar RatingTM based on a Morningstar Risk-Adjusted Return that accounts for variation in a fund's monthly excess performance, placing more emphasis on downward variations and rewarding consistent performance. Exchange-traded funds and open-end mutual funds are considered a single population for comparative purposes. The top 10.0% of funds in each category, the next 22.5%, 35.0%, 22.5%, and bottom 10.0% receive 5, 4, 3, 2, or 1 star(s), respectively. The overall Morningstar Rating for a managed product is derived from a weighted average of the performance figures associated with its 3-, 5-, and 10-year (if applicable) Morningstar Rating metrics. The rating formula most heavily weights the 3-year rating, using the following calculation: 100% 3-year rating for 36 to 59 months of total returns, 60% 5-year rating/40% 3-year rating for 60 to 119 months of total returns, and 50% 10-year rating/30% 5-year rating/20% 3-year rating for 120 or more months of total returns. Star ratings do not reflect the effect of any applicable sales load. 2 Morningstar, as of 12/31/18. 33 out of 43 funds outperformed their Morningstar category averages for the 10-year period ended 12/31/18. Results for other periods will vary, Investing involves risks, including the potential loss of principal. There is no quarantee that a fund's investment strategy will be successful. Please see the funds' prospectuses for additional risks. For complete performance information, visit jhinvestments.com. Past performance does not guarantee future results.

Insight that leverages the best of our diverse asset management network

Our multimanager approach to investing provides our dedicated in-house research team with a unique advantage: We leverage the very best market insight from our global network of specialized asset managers and investment partners.



More than 75 asset managers, independent research firms, broker-dealers, and banks make up our network.



A dedicated 60+ person investment research team part of 200+ professionals specializing in manager research and oversight—evaluates the views from our network.



Research is vetted and debated to develop our 12- to 18-month outlook on a range of asset classes.



The result is Market Intelligence, the latest thinking and timely investment ideas from John Hancock Investments.

Aberdeen, Ameriprise, Bain Capital Credit, Barclays, Barrow Hanley, BCA Research, BlackRock, Boston Common, Boston Partners, Brandywine Global, Breckinridge, Capital Economics, Capital Group, Citi, Credit Suisse, Deutsche Asset & Wealth Management, Dodge & Cox, DoubleLine, Eaton Vance, Edward Jones, Empirical Research Partners, Epoch, Evercore ISI, Federated, Fidelity, First Quadrant, Gavekal, Goldman Sachs, GW&K, ICE BofA Merrill Lynch, Ivy, Janney, Janus, John Hancock Asset Management, J.P. Morgan, Lazard, Legg Mason, Leuthold, Loomis Sayles, Lord Abbett, LPL, Macquarie, Macro Research Board, Matthews Asia, Mercer, MetWest, MFS, Morgan Stanley, Ned Davis Research, NEPC, Neuberger Berman, Nuveen, Oppenheimer Funds, Pictet, PIMCO, Pzena, Raymond James, Redwood, Research Affiliates, Roubini Global Economics, Royce, Russell, SSGA, Stone Harbor, Strategas Research Partners, Sustainable Growth Advisers, T. Rowe Price, Templeton, Trillium, UBS, Vanguard, Wellington, Wells Capital, Wells Fargo

What we're hearing from our network

Key macro themes



Global growth moderating

The U.S. economy remains relatively strong, but growth rates elsewhere have shifted down a gear as challenges mount in Asia and Europe.

See pages 10, 13, 15



Earnings growth peaking

The fundamental backdrop had been supporting equity markets, but earnings growth may have peaked as the impact of U.S. fiscal stimulus fades.

See pages 11, 16, 19



Monetary policy tightening nearing its limits

The U.S. Federal Reserve is approaching the end of its rate hiking cycle, and the withdrawal of liquidity from the global financial system has weighed on a range of asset classes.

See pages 21, 22, 26

U.S. equity: peaking fundamentals

Underlying fundamentals lose momentum, increasing market volatility.

Key macro themes



Global growth moderating

The U.S. economy remains relatively strong, but growth rates elsewhere have slowed, prompting greater market volatility.



Earnings growth peaking

The fundamental backdrop had been supportive of equities, but earnings growth may have peaked with U.S. fiscal stimulus measures.



Monetary policy tightening nearing its limits

The Fed is approaching the end of its rate hiking cycle, and the withdrawal of liquidity has weighed on stocks.

What's inside

- · Leading economic indicators remain robust for now
- Corporate earnings growth may be past its peak
- A barbell approach: two sectors for offense and two for defense
- Not all bear markets behave the same

Range of views from our network

Darker shading indicates a greater concentration of views within our network.



Market volatility may continue to increase as investors adjust to slower growth, protectionist measures, and continued political turmoil. An extended market cycle may have run its course.

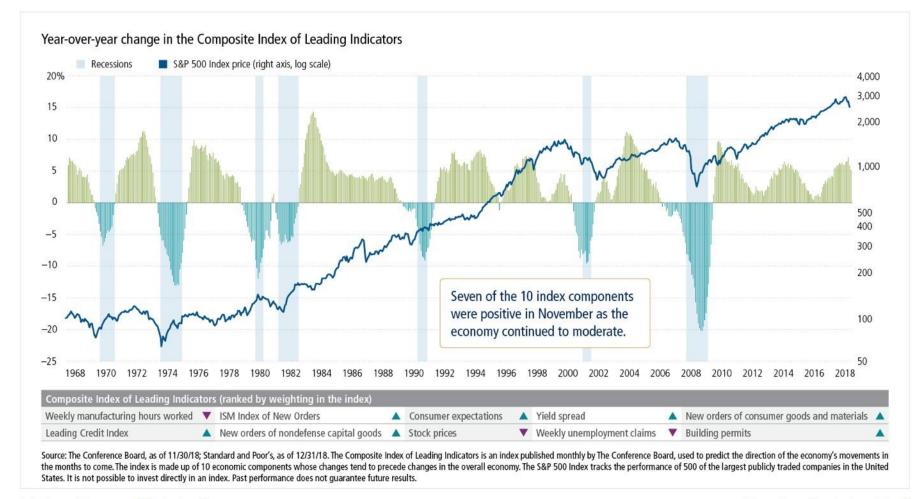
The value of a company's securities is subject to change with the company's financial condition and overall market and economic conditions. See pages 10–13 for complete information. Past performance does not guarantee future results.

Leading economic indicators remain robust for now

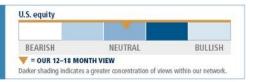


"Solid GDP growth at about 2.8 percent should continue in early 2019, but the LEI suggests the economy is likely to moderate further in the second half of 2019."



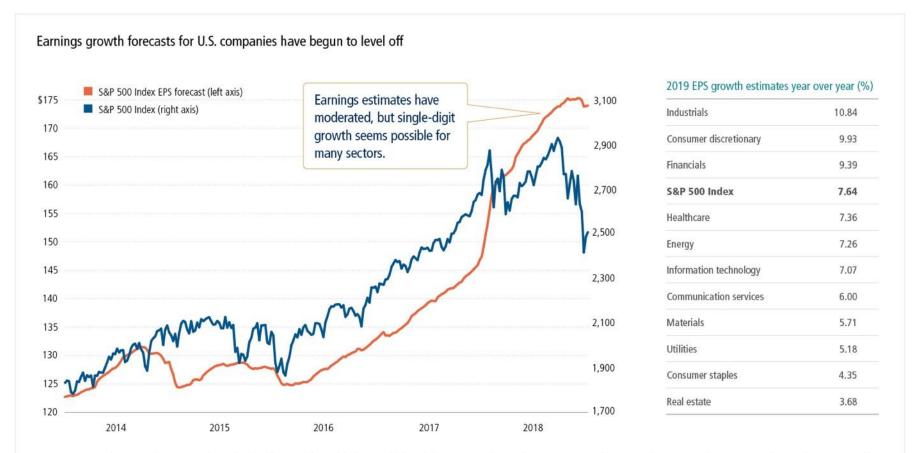


Corporate earnings growth may be past its peak



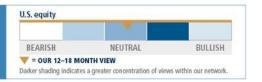
"U.S. earnings will likely remain supportive for the market unless economic growth is much weaker than we expect." 1





Source: FactSet, as of 12/31/18. The S&P 500 Index tracks the performance of 500 of the largest publicly traded companies in the United States. It is not possible to invest directly in an index. Earnings per share (EPS) is a measure of how much profit a company has generated calculated by dividing the company's net income by its total number of outstanding shares. Past performance does not guarantee future results. 1 bcaresearch.com, 2019.

A barbell approach: two sectors for offense and two for defense



"Investors should position with a moderately pro-growth stance, emphasizing high-quality cyclical exposure, balanced by some defensiveness."

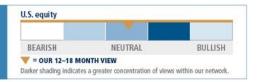


Emphasis on select sectors balances return potential and risk management Sectors for defense Sectors for offense S&P 500 Index Healthcare and technology offer above-average Market capitalization Staples and utilities offer defensive characteristics betas for upside capture for downside management Technology: margins 20% Technology Utilities: low beta 2019 earnings revisions 9.95%→7.07% 2019 earnings revisions 4.19% → 5.18% 16% Healthcare Return on equity 28.58% Return on equity 12.31% 1.09 0.17 3-year beta 3-year beta 13% Financials Healthcare: earnings growth Consumer staples: quality 10% Communication services 2019 earnings revisions 7.08%→7.36% 2019 earnings revisions 5.76% → 4.35% 10% Consumer discretionary Return on equity 16.35% Return on equity 29.35% 9% Industrials 3-year beta 1.05 3-year beta 0.51 7% Consumer staples 5% Energy 3% Utilities 3% Real estate 3% Materials S&P 500 Index 2019 earnings revisions: 10.04% → 7.64% Return on equity: 17.00%

relative to the market. The beta of the market is 1.00. Accordingly, an asset with a 1.10 beta is expected to have 10% more volatility than the market. Return on equity is a measure of profitability that calculates how many dollars of profit a company generates with each dollar of shareholders' equity. Past performance does not quarantee future results.

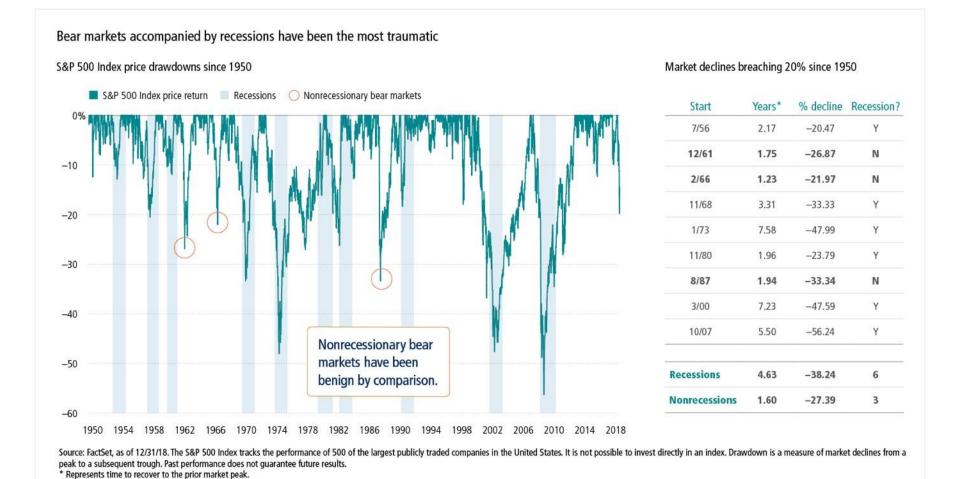
Source: FactSet, as of 12/31/18. The S&P 500 Index tracks the performance of 500 of the largest publicly traded companies in the United States. It is not possible to invest directly in an index. Beta measures the sensitivity of a sector or asset

Not all bear markets behave the same



"We believe the decline in stocks witnessed in the last quarter was more akin to the corrections in 1962, 1987, and 1998."





International equity: opportunities narrow

Economic growth has slowed outside the United States, reflected in recent declines across Asian and European equity markets.

Key macro themes



Global growth moderating

Global growth has slowed and certain international equity segments have fallen into bear market territory.



Earnings growth peaking

Corporate fundamentals have begun to deteriorate in multiple regions across the world.



Monetary policy tightening nearing its limits

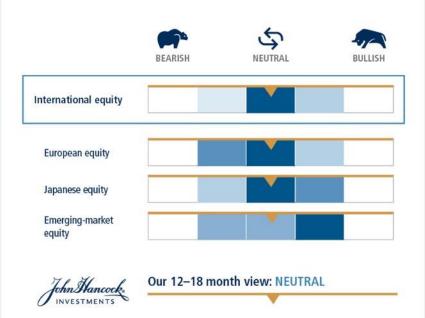
The Fed is approaching the end of its rate hiking cycle, and the withdrawal of liquidity has weighed on emerging markets.

What's inside

- Economic momentum abroad has reversed
- Earnings forecasts have flattened
- International equities have underperformed, partly because of sector composition
- When the U.S. dollar strengthens, international equities tend to lag U.S. equities
- EM has reached bear market territory

Range of views from our network

Darker shading indicates a greater concentration of views within our network.

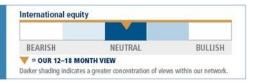


We maintain a neutral weighting in international equities within a global diversified portfolio. Relative value opportunities within the asset class have also faded over the last year.

See pages 15-19 for complete information. Past performance does not guarantee future results.

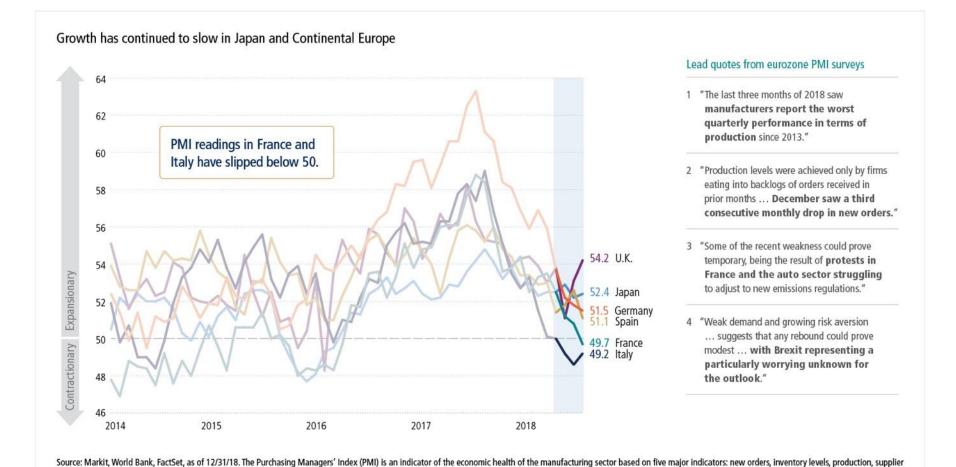
Economic momentum abroad has reversed

deliveries, and the employment environment. It is not possible to invest directly in an index. Past performance does not guarantee future results.



"Global manufacturing growth has slowed significantly since peaking in late 2017, further confirming our narrative that the global economic cycle is maturing and peak growth is likely behind us."





Earnings forecasts have flattened



"The euro area economy has been weakening vs. the U.S. as seen by the relative performance of PMIs in the two regions; this bodes ill for the euro area's relative profitability."1



Earnings growth leveled off in 2018 after accelerating in 2017 2019 EPS growth estimates year over year (%) \$150 2,300 Information technology 14.94 MSCI EAFE Index EPS forecast, next 12 months (left axis) MSCI EAFE Index price USD (right axis) Consumer staples 10.34 Communication services 10.19 The severity of the 2018 sell-off 140 2,100 wasn't matched by a similar Energy 9.05 deterioration in fundamentals. 2,000 MSCI EAFE Index 6.35 **Financials** 5.54 1,900 Healthcare 5.52 1,800 Consumer discretionary 5.50 Industrials 4.46 1.700 Utilities 3.64 Materials 2.86 1,600 Real estate -1.76110 1,500 2015 2016 2017 2018

Source: FactSet, as of 12/31/18. Earnings per share (EPS) is a measure of how much profit a company has generated calculated by dividing the company's net income by its total number of outstanding shares. USD refers to U.S. dollars. The MSCI Europe, Australasia, and Far East (EAFE) Index tracks the performance of publicly traded large- and mid-cap stocks of companies in those regions. It is not possible to invest directly in an index. Past performance does not guarantee future results.

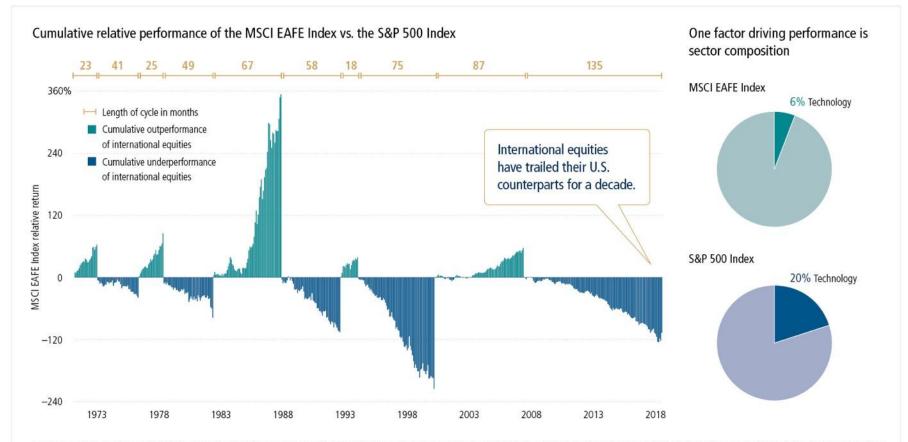
1 bcaresearch.com, 2018.

International equities have underperformed partly because of sector composition



"Overall, relative performance among major regional equity markets is being driven by tech and financials."





Source: Bloomberg, FactSet, as of 12/31/18. International equities are represented by the MSCI Europe, Australasia, and Far East (EAFE) Index, which tracks the performance of publicly traded large- and mid-cap stocks of companies in those regions. U.S. equities are represented by the S&P 500 Index, which tracks the performance of 500 of the largest publicly traded companies in the United States. It is not possible to invest directly in an index. Past performance does not quarantee future results.

When the U.S. dollar strengthens, international equities tend to lag U.S. equities

"At some point, a dovish turn from the Fed will lead to some depreciation of the dollar and global growth will stage a rebound."





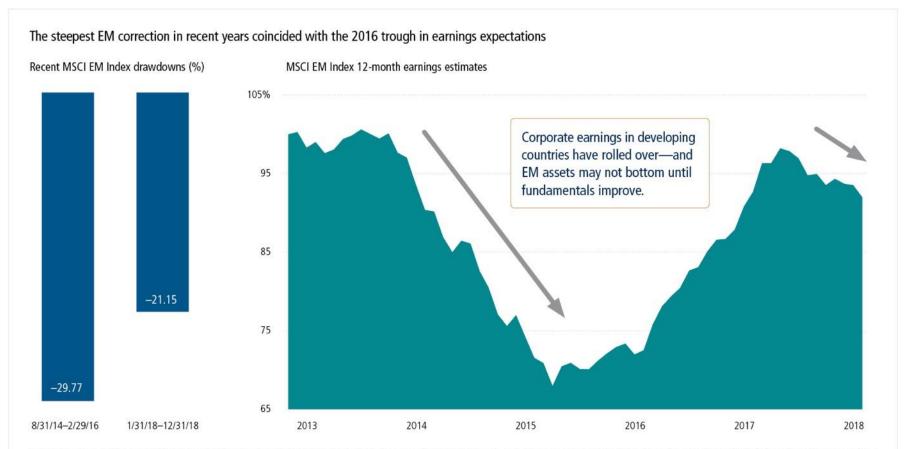
Source: FactSet, 12/31/18. The U.S. Dollar Index (DXY) is a measure of the value of the U.S. dollar relative to the value of a basket of currencies of the majority of the United States' most significant trading partners. International equities are represented by the MSCI Europe, Australasia, and Far East (EAFE) Index, which tracks the performance of publicly traded large- and mid-cap stocks of companies in those regions. U.S. equities are represented by the S&P 500 Index, which tracks the performance of 500 of the largest publicly traded companies in the United States. It is not possible to invest directly in an index. Past performance does not guarantee future results.

EM has reached bear market territory



"Emerging market equities have been buffeted by a strengthening U.S. dollar, global trade tensions, weaker growth in China, and tightening financial conditions."

WELLINGTON MANAGEMENT*



Source: Bloomberg, FactSet, as of 12/31/18. The MSCI Emerging Markets (EM) Index tracks the performance of publicly traded large- and mid-cap emerging-market stocks. It is not possible to invest directly in an index. Earnings per share (EPS) is a measure of how much profit a company has generated calculated by dividing the company's net income by its total number of outstanding shares. Past performance does not guarantee future results.

Fixed income: increasing higher-quality opportunities

Investment-grade corporate and government bonds may be poised for a rebound following last year's rising rates.

Key macro themes



Global growth moderating

The rise in yields may have run its course, increasing the attractiveness of duration.



Earnings growth peaking

The fundamental backdrop now favors a more defensive approach to portfolio construction.



Monetary policy tightening nearing its limits

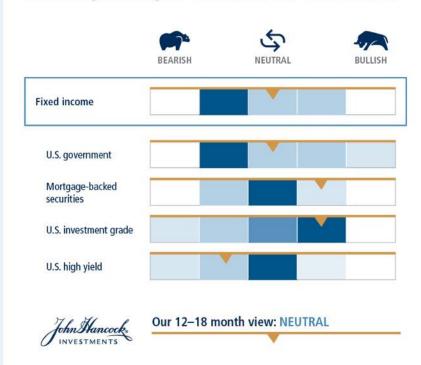
The Fed is approaching the end of its rate hiking cycle, and the withdrawal of liquidity has weighed on credit.

What's inside

- The Fed may slow the pace of rate hikes as inflation moderates
- Competing forces continue to shape the yield curve
- Look for bonds to outperform cash in 2019
- Investment-grade corporates represent an attractive balance of risk and return
- Investment grade has done better than high yield when economic growth has slowed

Range of views from our network

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Within the asset class, we now favor duration over credit risk. We believe investment-grade corporates still offer upside.

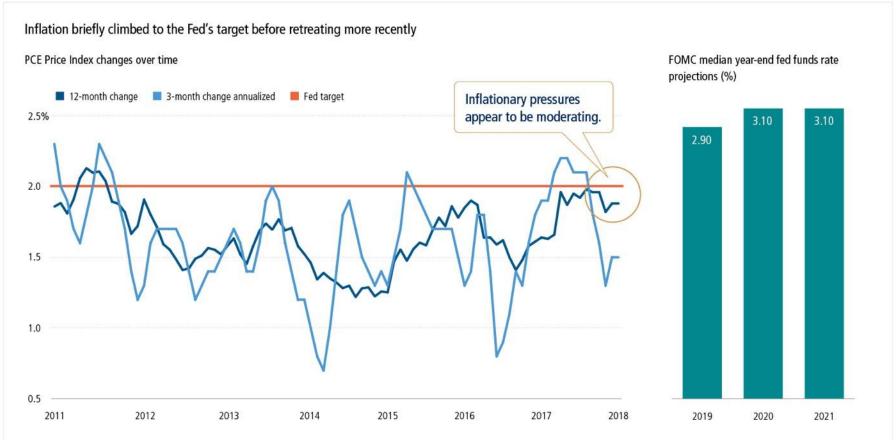
See pages 21–25 for complete information. Past performance does not guarantee future results.

The Fed may slow the pace of rate hikes as inflation moderates



"Core inflation looks to have peaked in the U.S."





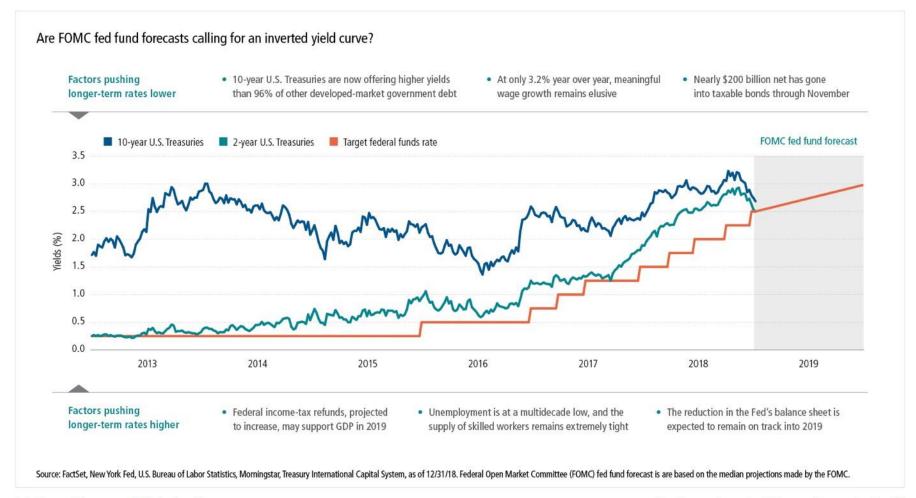
Source: U.S. Federal Reserve (Fed), Chicago Fed, as of 12/31/18. Interest-rate projections are based on the median for the federal funds rate projections of the The Federal Open Market Committee (FOMC), the body responsible for setting the federal funds rate, which meets eight times a year. FOMC members anonymously report interest-rate projections four times a year, in March, June, September, and December. The Core Personal Consumption Expenditure (PCE) Price Index measures the prices paid by consumers for goods and services, excluding more volatile food and energy prices. It is not possible to invest directly in an index. Past performance does not guarantee future results.

Competing forces continue to shape the yield curve



"With the Fed raising short-term rates and long-run inflation expectations still moderate, we'd expect to see a flattening yield curve."



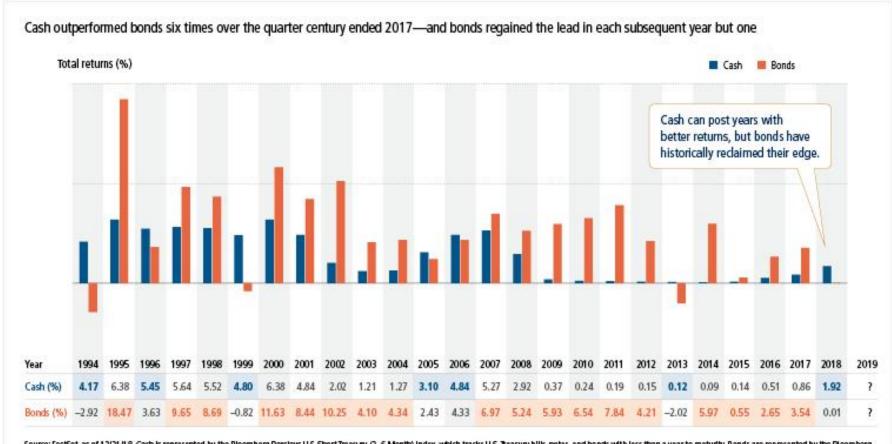


Look for bonds to outperform cash in 2019



"Treasury yields in general don't have much upside room left to rise; in fact, the long end of the curve may have already peaked."



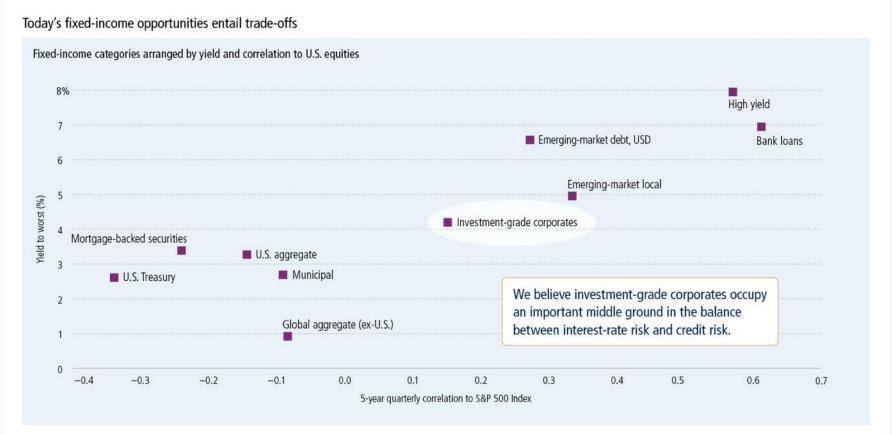


Source: FactSet, as of 12/31/18. Cash is represented by the Bloomberg Barclays U.S. Short Treasury (3–6 Month) Index, which tracks U.S. Treasury bills, notes, and bonds with less than a year to maturity. Bonds are represented by the Bloomberg Barclays U.S. Aggregate Bond Index, which tracks the performance of U.S. Investment-grade bonds in government, asset-backed, and corporate debt markets. It is not possible to invest directly in an index. Past performance does not guarantee future results.

Investment-grade corporates represent an attractive balance of risk and return

"Bonds play a valuable role in overall portfolios by serving as a stabilizing force when riskier assets, such as equities, are weak."





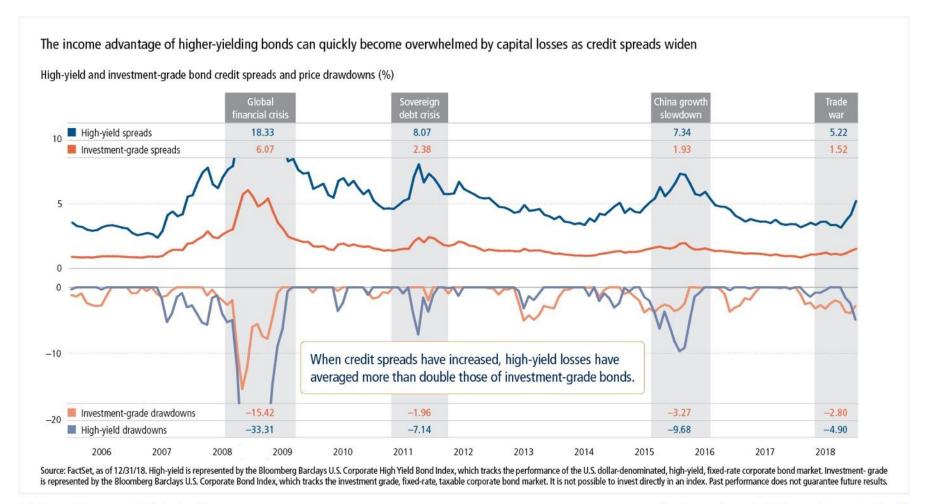
Source: Barclays Live, FactSet, Western Asset Management Company, as of 12/31/18. The five-year quarterly return correlation is relative to the S&P 500 Index, which tracks the performance of 500 of the largest publicly traded companies in the United States. It is not possible to invest directly in an index. Yield to worst is the lowest potential yield calculated by taking into account an issue's optionality, such as prepayments or calls. Correlation is a statistical measure that describes how investments move in relation to each other, which ranges from -1.0 to 1.0. The closer the number is to 1.0 or -1.0, the more closely the two investments are related. Past performance does not guarantee future results.

Investment grade has done better than high yield when economic growth has slowed



"We expect weakening credit fundamentals to drive high yield spreads higher as monetary conditions continue to tighten."

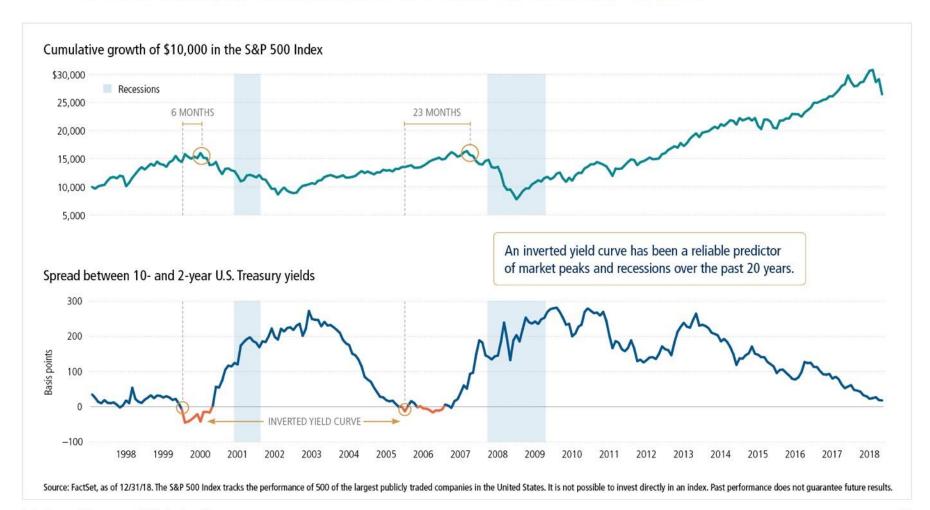




The yield curve may hold clues to the timing of the cycle

"The trick is to know when there is a preponderance of risks and to adjust investments accordingly, just as a tornado warning says we should seek shelter or the all-clear says that the danger has passed."

FIRST QUADRANT



What to do now



Family of funds As of December 31, 2018

	Managed by	Morningstar category	A	C	1	R6			Managed by	Morningstar category	Α	C	1	R6
Blue Chip Growth	T. Rowe Price	Large growth	JBGAX	JBGCX				Strategic Income Opportunities	JHAM	Multisector bond	JIPAX	JIPCX	JIPIX	JIPR
Classic Value	Pzena	Large value	PZFVX	JCVCX	JCVIX	JCVWX		Tax-Free Bond	JHAM	Muni national long	TAMBX	TBMBX	JTBDX	JTM
Disciplined Value	Boston Partners	Large value	JVLAX	JVLCX	JVLIX	JDVWX		Absolute Return Currency	First Ouadrant	Multicurrency	JCUAX	JCUCX	JCUIX	JCUF
Disciplined Value Mid Cap ¹	Boston Partners	Mid-cap blend	JVMAX	JVMCX	JVMIX	JVMRX		Alternative Asset Allocation	JHAM	Multialternative	JAAAX	JAACX	JAAIX	JAAF
Equity Income	T. Rowe Price	Large value	JHEIX	JHERX			5000	Enduring Assets ⁶	Wellington	Infrastructure	JEEBX	JEEFX	JEEIX	JEED
Financial Industries	JHAM	Financial	FIDAX	FIDCX	JFIFX	JFDRX	Ž	Global Absolute Return Strategies ⁷	Aberdeen	Multialternative	JHAAX	JHACX	JHAIX	JHAS
Fundamental All Cap Core	JHAM	Large growth	JFCAX	JFCCX	JFCIX	JFAIX	Z Z	Global Conservative Absolute Return ⁷	Aberdeen	Multialternative	JHRAX	JHRCX	JHRIX	JHRR
Fundamental Large Cap Core	JHAM	Large blend	TAGRX	JHLVX	JLVIX	JLCWX	8	Global Focused Strategies ⁷	Aberdeen	Multialternative	JGFOX	JGFEX	JGFGX	JGFD
Fundamental Large Cap Value	JHAM	Large value	JFVAX	JFVCX	JFVIX	JFLVX	¥	Redwood ⁸	Boston Partners	Options-based	JTRAX	JTRCX	JTRIX	JTRR
New Opportunities	BW/DFA/GWK	Small blend	JASOX	JBSOX	JHSOX	JWSOX		Seaport Long/Short®	Wellington	Long/short equity	JSFBX	JSFTX	JSFDX	JSFR:
Regional Bank	JHAM	Financial	FRBAX	FRBCX	JRBFX	JRGRX		Technical Opportunities ¹⁰	Wellington	Large growth	JTCAX	JTCDX	JTCIX	JTOP
Small Cap Core	JHAM	Small blend	JCCAX		JCCIX	JORSX		redilical Opportunities	rveimigton	targe growth	110-01	JI COX	TICIA	3101
Small Cap Growth	Redwood	Small growth	JSJAX	JSJCX	JSJIX	JSJFX	ALLOC	Balanced Fund	JHAM	Allocation—50% to 70% equity	SVBAX	SVBCX	SVBIX	JBAV
Small Cap Value	Wellington	Small blend	JSCAX		JSCBX	JSCCX	ALL	Income Allocation Fund	JHAM	Allocation—15% to 30% equity	JIAFX	JIAGX	JIAIX	JIAS
U.S. Global Leaders Growth	SGA	Large growth	USGLX	USLCX	USLIX	UGLSX	SET	V0.02		Alocaton 15 to 50 to equity	JI/II/	JINON	JIPW.	JIPOJ
U.S. Growth ²	Wellington	Large growth	JHUAX	JHUCX	JHUIX	JUSEX	AS	Multimanager Lifestyle Portfolios	JHAM					
U.S. Quality Growth ³	Wellington	Large growth	JSGAX	JSGCX	JSGIX	JSGTX	ш	M. W. I. J U.S. W D. at C. V.						
Value Equity	Barrow Hanley	Large value	JVEAX	JVECX	JVEIX	JVERX	DATE	Multi-Index Lifetime Portfolios	JHAM					
Disciplined Value International	Boston Partners	Foreign large blend	JDIBX	JDICX	JDVIX	JDIUX	GET	Multi-Index Preservation Portfolios	JHAM					
Emerging Markets	Dimensional	Diversified emerging markets	JEVAX	JEVCX	JEVIX	JEVRX	AR	Multimanager Lifetime Portfolios	JHAM					
Emerging Markets Equity	JHAM	Diversified emerging markets	JEMQX	JEMZX	JEMMX	JEMGX								
Fundamental Global Franchise	JHAM	World large stock	JFGAX		JFGIX	JFGFX		ESG All Cap Core	Trillium	Large growth	JHKAX	JHKCX	JHKIX	JHKR
Global Equity	JHAM	World large stock	JHGEX	JGECX	JGEFX	JGEMX	SG	ESG Core Bond	Breckinridge	Intermediate-term bond	JBOAX		JBOIX	JBOR
Global Shareholder Yield	Epoch	World large stock	JGYAX	JGYCX	JGYIX	JGRSX		ESG International Equity	Boston Common	, , ,	JTQAX		JTQIX	JTQR
Global Thematic Opportunities	Pictet	World large stock	JTKAX	JTKCX	JTKIX	JTKRX		ESG Large Cap Core	Trillium	Large blend	JHJAX	JHJCX	JHJIX	JHJR:
Greater China Opportunities	JHAM	China region	JCOAX	JCOCX	JCOIX					Index provider	Morning	tar caten	iorv	Tic
International Growth ⁴	Wellington	Foreign large growth	GOIGX	GONCX	GOGIX	JIGTX		John Hancock Multifactor Consumer Discretionary ETF		Dimensional	Morningstar category Consumer cyclical		.,	JHA
International Small Company	Dimensional	Foreign small/mid blend	JISAX	JISDX	JSCIX	JHSMX		John Hancock Multifactor Consumer Staples ETF		Dimensional	Consumer defensive			JHN
Bond	JHAM	Intermediate-term bond	JHNBX	JHCBX	JHBIX	JHBSX		John Hancock Multifactor Developed International ETF		Dimensional	Foreign large blend			JHN
California Tax-Free Income	JHAM	Muni California long	TACAX	TCCAX	JCAFX	JCSRX		John Hancock Multifactor Emerging Markets ETF		Dimensional	Diversified emerging market		markets	
Emerging Markets Debt	JHAM	Emerging markets bond	JMKAX	JMKCX	JMKIX	JEMIX		John Hancock Multifactor Energy ETF John Hancock Multifactor Financials ETF John Hancock Multifactor Healthcare ETF John Hancock Multifactor Industrials ETF John Hancock Multifactor Large Cap ETF		Dimensional	Equity energy Financial Health Industrials Large blend		manico	JHA
Floating Rate Income ⁵	Bain	Bank loan	JFIAX	JFIGX	JFIIX	JFIRX				Dimensional				JHN
Government Income	JHAM	Intermediate government	JHGIX	TCGIX	JGIFX	JTSRX	100			Dimensional				JHN
High Yield	JHAM	High yield bond	JHHBX	JHYCX	JYHIX	JFHYX	盖			Dimensional				JHN
High Yield Municipal Bond	JHAM	High yield muni	JHTFX	JCTFX	JHYMX	JCTRX				Dimensional				JHN
Income	JHAM	Multisector bond	JHFIX	JSTCX	JSTIX	JSNWX		John Hancock Multifactor Materials ETF		Dimensional	Natural resources			JHN
Income Investment Grade Bond	JHAM	Intermediate-term bond	TAUSX	TCUSX	TIUSX	JIGEX		John Hancock Multifactor Mid Cap ETF		Dimensional	Mid-cap blend			JHN
	JHAM		JHMXX	JMCXX	HUSA	JIGEN		John Hancock Multifactor Small Cap ETF		Dimensional	Small blend			JHS
Money Market	Stone Harbor	Taxable money market		JMCXX	JMBIX	JSDEX		John Hancock Multifactor Technology ETF		Dimensional	Technology			JHN
Short Duration Credit Opportunities		Multisector bond	JMBAX		IMBIX	JODEX		John Hancock Multifactor Utilities ETF		Dimensional	Utilities	ij		JHN
Spectrum Income	T. Rowe Price	Multisector bond	JHSIX	JHSRX				John Harlock Multilactor Guilles ETF		Uniteristorial	Oundes			3/11/

¹ As of 1/31/14, the fund is closed to new investors. 2 As of 10/31/18, the fund is closed to new investors. 3 As of 9/28/18, Wellington Management Company replaced John Hancock Asset Management as the fund's manager. Prior to 11/12/18, the fund was named John Hancock Strategic Growth Fund. 4 As of 3/23/18, the fund is closed to new investors. 5 As of 8/30/18, Bain Capital Credit replaced Western Asset Management Company as the fund's manager. 6 As of 3/1/19, the fund will be named John Hancock Infrastructure Fund. 7 As of 1/1/19, Standard Life Investments (USA) Limited was replaced by Aberdeen Standard Investments Inc. 8 As of 1/22/19, John Hancock Redwood Fund is named John Hancock Disciplined Alternative Yield Fund. 9 Prior to 4/20/18, the fund was named John Hancock Seaport Fund. 10 As of 1/14/19, the fund is closed to all investors and will liquidate on or about 4/12/19.

Not all funds are available for sale at all firms. The funds listed above have associated risks. John Hancock Multifactor ETF shares are bought and sold at market price (not NAV), and are not individually redeemed from the fund. Brokerage commissions will reduce returns.

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Asset manager views are compiled throughout the preceding calendar quarter through in-person discussions, reviewed research, and on-site visits. These inputs are complemented by third-party research collected during the calendar quarter. Our views reflect John Hancock Investments' proprietary weighting of these inputs.

A bearish reading indicates the potential for an asset to underperform its class or subclass on a risk-adjusted basis. A bullish reading indicates the potential for an asset to outperform its class or subclass on a risk-adjusted basis. A neutral reading indicates the potential for performance in line with the asset's historical averages.

Stocks and bonds can decline due to adverse issuer, market, regulatory, or economic developments; foreign investing, especially in emerging markets, has additional risks, such as currency and market volatility and political and social instability; value stocks may decline in price; growth stocks may be more susceptible to earnings disappointments; the securities of small companies are subject to higher volatility than those of larger, more established companies; and high-yield bonds are subject to additional risks, such as increased risk of default. Fixed-income investments are subject to interest-rate and credit risk; their value will normally decline as interest rates rise or if an issuer is unable or unwilling to make principal or interest payments. Liquidity—the extent to which a security may be sold or a derivative position closed without negatively affecting its market value, if at all—may be impaired by reduced trading volume, heightened volatility, rising interest rates, and other market conditions. Hedging and other strategic transactions may increase volatility and result in losses if not successful. Currency transactions are affected by fluctuations in exchange rates. This material is not intended to be, nor shall it be interpreted or construed as, a recommendation or providing advice, impartial or otherwise. John Hancock Investments and its representatives and affiliates may receive compensation derived from the sale of and/or from any investment made in its products and services.





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