

SUCCESSFULLY INVESTING IN A VOLATILE WORLD

MARKET OUTLOOK

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Chief Investment Strategist

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Strategic Asset Allocation

Setting the Foundation

We seek to establish an optimal strategic allocation to serve as the investor's foundation. Grounded in our five-year Capital Market Assumptions, we employ a "forward-looking, historically aware" approach informed by extensive research.

Tactical Asset Allocation

Capitalising on Opportunities

We seek to add value by exploiting near-term financial market opportunities. Risk management techniques are incorporated to ensure that tactical changes made to the strategic asset allocation conform to investor expectations.



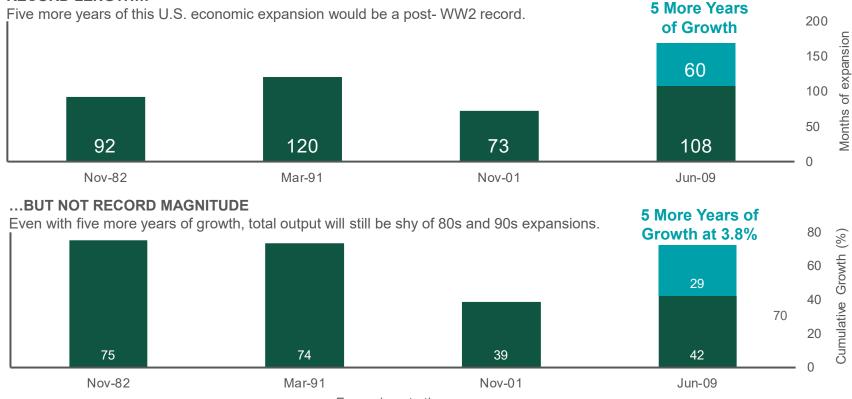
AUDIENCE POLL

Do you think a US recession is coming over the next 18 months?

A: Yes B: No C: Uncertain Poll Results

Theme: Mild Growth Myopia

RECORD LENGTH...

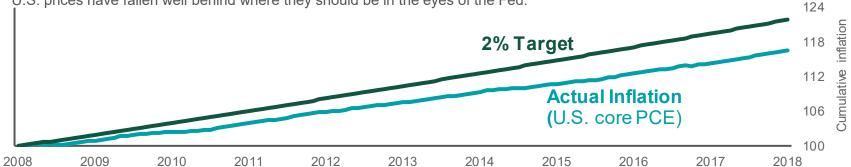


Expansion starting...

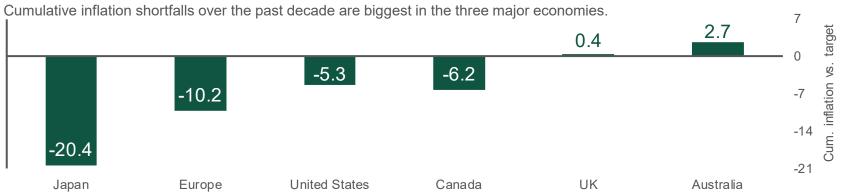
Theme: Stuckflation

FALLING BEHIND





UNDERACHIEVERS

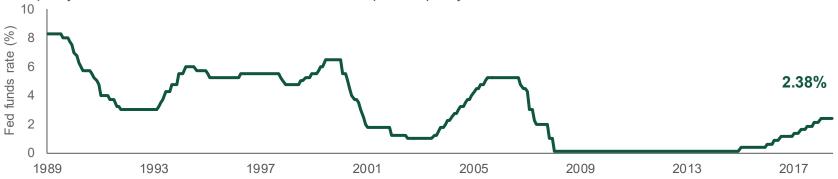


Source: NT Global Asset Allocation, Bloomberg, Data from 6/30/2008 to 6/30/2018. Green bars represent core inflation measures.

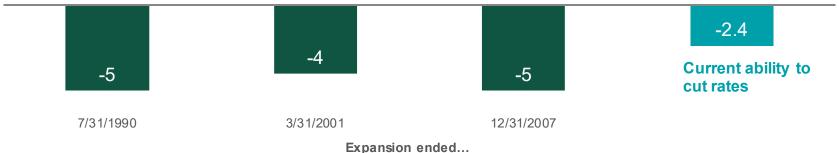
Theme: Pass/Fail Monetarism

LOWER LOWS, LOWER HIGHS

Fed policy has moved closer to the zero-bound over the past 25-plus years.



FED FUNDS RATE REDUCTION IN PAST CYCLES (%)



Source: NT Global Asset Allocation, Bloomberg. Data from 12/31/1989 to 5/31/2019.

ASSET CLASS FORECASTS



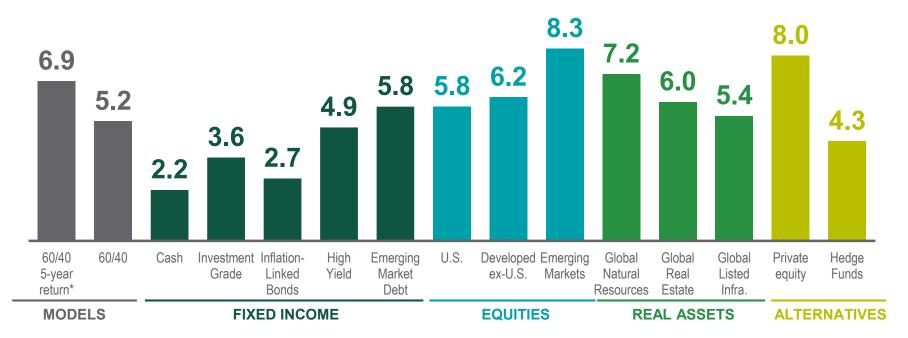
AUDIENCE POLL

Which asset class will perform the best over the next 5 years?

A: US EquitiesB: International/EM EquitiesC: Real AssetsPoll Results

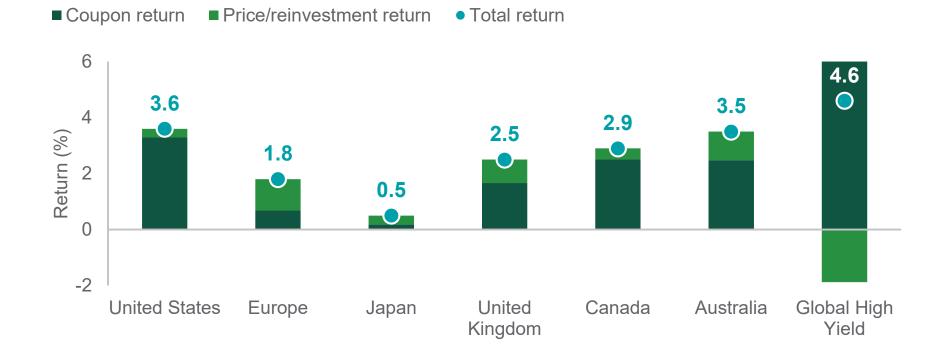
Current Forecasts

2018 FIVE-YEAR ASSET CLASS TOTAL RETURN FORECASTS (%)



Source: Northern Trust. Pre-tax strategic, growth and income investor portfolio model. All figures in percentage terms. *5-year return from 6/30/2013 – 6/30/2018. Forward-looking statements could differ from actual results. For illustrative purposes only. CMA model expected returns do not show actual performance.

Fixed Income: Return Building Blocks



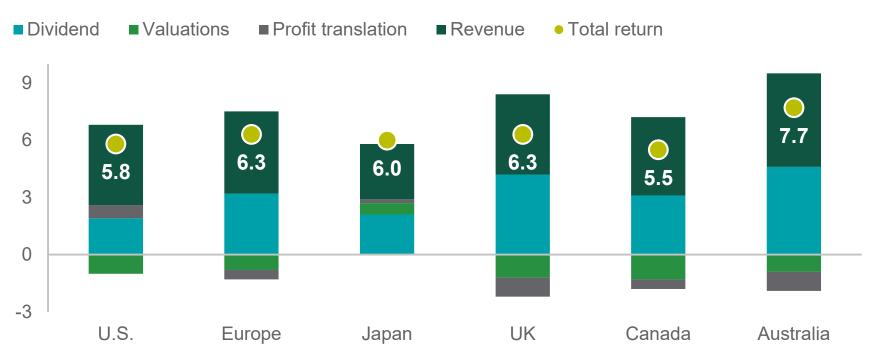
Source: NT Global Asset Allocation, Bloomberg. Coupon return calculated as yield to worst on 6/30/2018.

EQUITY RETURN FORECAST COMPONENT BY REGION (%)



Source: Northern Trust Global Asset Allocation. Forecasts of financial market trends that are based on current market conditions constitute CMAWG judgment and are subject to change without notice.

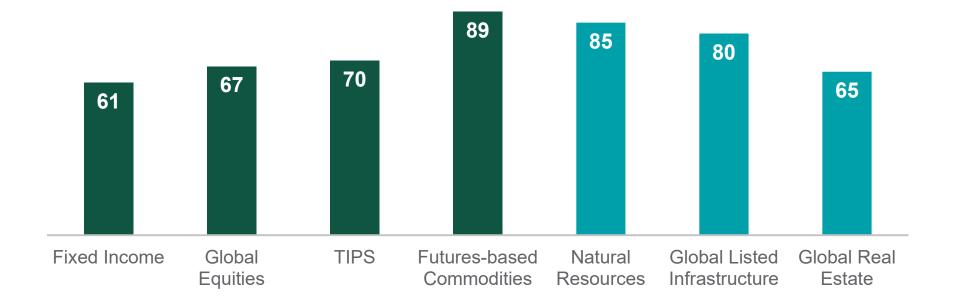




Source: Northern Trust Global Asset Allocation. Forecasts of financial market trends that are based on current market conditions constitute CMAWG judgment and are subject to change without notice.

Real Assets: Which Assets Beat Inflation – and How Often?

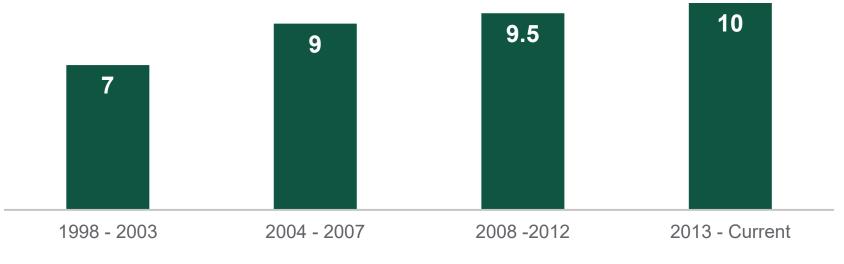
% OF TIME ASSET CLASS COVERS INFLATION DURING HIGH INFLATION PERIODS



Source: Northern Trust Global Asset Allocation, Blomberg. Data from 12/31/2001 to 3/31/2018. High inflation (above 2.98%) is the 75th percentile of data during the data range. Normal Inflation is below 2.98.

Alternatives: More Private Opportunities as IPOs are Delayed

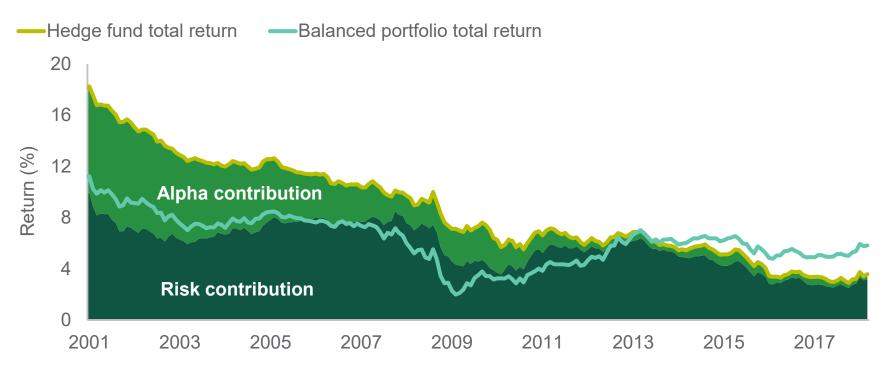
MEDIAN YEARS COMPANIES ARE STAYING PRIVATE



Initial Public Offering Cohort

Alternatives: Manager Selectivity Is the Key

HEDGE FUND VS. BALANCED PORTFOLIO – 10 YEAR ROLLING RETURNS

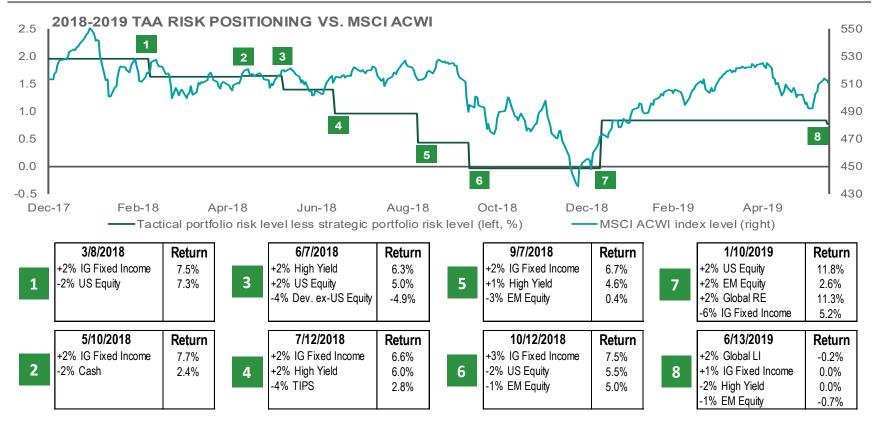


Source: NT Global Asset Allocation, NT Portfolio Construction Desk, Bloomberg. Data from 12/31/2000 to 3/31/2018. Balanced portfolio is 50% MSCI ACWI / 50% Bloomberg Barclays Global Aggregate Index. Past performance does not guarantee future results.

TACTICAL POSITIONING



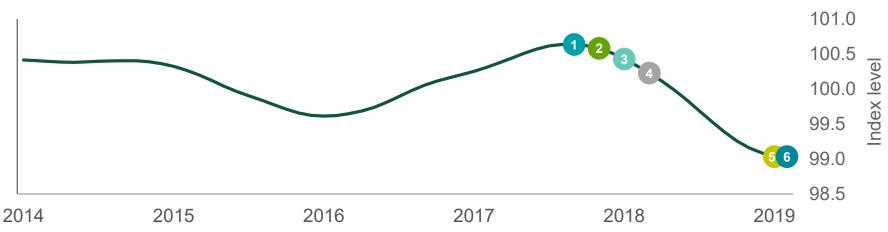
De-Risking in 2018, Re-Risking in 2019



Source: NT Global Asset Allocation, Bloomberg. Data as of 6/14/2019. The tactical and strategic portfolios are model portfolios based on Investment Policy Committee allocation decisions and asset class index proxies, which cannot be directly invested in and may change over time. The difference in risk level series is represented by the standard deviation of the tactical portfolio less the standard deviation of the strategic portfolio.

Tariffs Contributing to Global Slowdown

-Global Leading Indicator



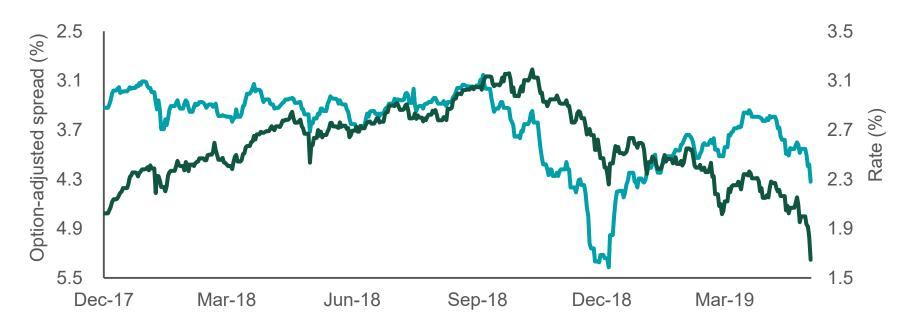
January 2018	1	U.S. President Trump approves tariffs on solar panels and washing machines.
March 2018	2	U.S. steel and aluminum tariffs against all trading partners.
April 2018	3	U.S. releases list of \$50 billion worth of Chinese goods to face tariffs at 25%.
July 2018	4	U.S. releases list of additional \$200 billion worth of Chinese goods to face 10% duties.
May 2019	5	Trump tweets that July tariffs will increase to 25% and remaining imports will be taxed at 25%.

May 2019 6 Trump announces 5% tariffs on all imports from Mexico; subsequently dropped.

Source: NT Global Asset Allocation, OECD, Bloomberg. The global leading indicator data is amplitude adjusted for seasonality. Data as of Apr-2019.

The Markets are Leading the Fed

—High yield spread (inverted, Left) —1 month Treasury (1 year forward, Right)

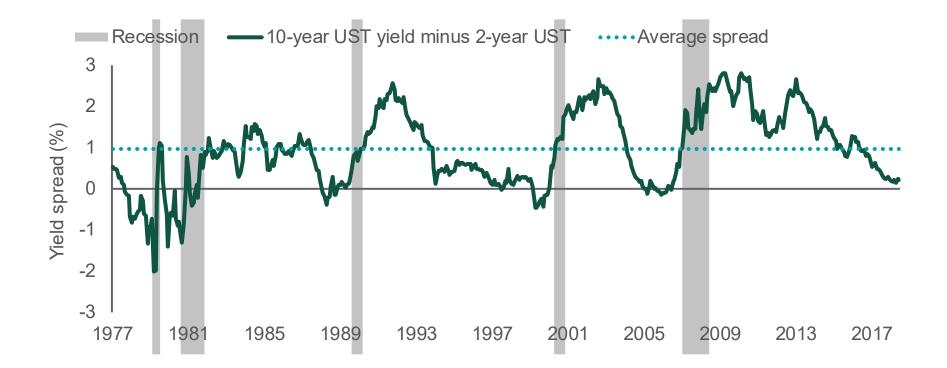


Global Inflation Struggling to Hit Target



Source: NT Global Asset Allocation, Bloomberg. Concept from Evercore ISI. The data shows the 3-month average, year-over-year core CPI grow th on an equal weighted basis for U.S., China and Europe. Data as of Apr-2019.

Inversions Have Preceded The Last 5 Recessions

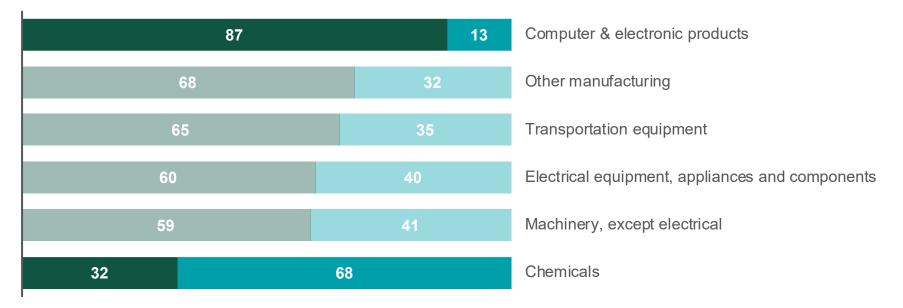


Source: Northern Trust Investment Strategy, Bloomberg, Federal Reserve Bank of St. Louis. Monthly data: 12/31/1977 through 5/31/2019.

Trade War: Hitting The Wrong Target

% OF TOTAL CHINESE EXPORTS (BY INDUSTRY) THAT COMES FROM...

Non-Chinese Multinational Corporations
Domestic Chinese Firms



Start of Drawdown	Months to Max Drawdown	Return to Drawdown (%)	Months to Recover	Return to Recovery (%)
March - 1987	7	-6.9	3	8.9
February - 1989	20	-13.8	5	25.2
July - 1998	3	-7.0	6	8.3
April - 1999	19	-8.9	3	11.0
February - 2001	17	-12.0	8	16.6
May - 2007	18	-33.3	9	51.8
July - 2011	2	-7.1	4	9.7
May - 2015	8	-9.7	5	10.8

Equities: Stocks Have Become Less Expensive



Source: Northern Trust Investment Strategy, MSCI. Monthly data through 5/31/2019. Indices are MSCI US, MSCI World ex-US, and MSCI Emerging Markets; U.S. and World ex-U.S. data begin in 1970, EM data begins in 1995. Normal Range: +/- 1 standard deviation from the median. LT: long-term.

Tactical Positioning: Taking Measured Risk

		ASSET CLASS	STRATEGIC (%)	OVER/UNDER	RWEIGHT (%)	TACTICAL (%)
Ъ	це	Cash	2	-2		0
RISK CONTROL	ncor	U.S. Investment Grade	34	-4		30
- S	Fixed Income	Inflation-Linked	5	-4		1
	Ē	High Yield	3		6	9
	ŝ	U.S. Equity	19		2	21
	Equities	Dev Ex-U.S. Equity	12		0	12
S S	Ш	EM Equity	7	-2		5
RISK SSETS	Assets	Global Natural Resources	5		0	5
- ¥	al As:	Global Real Estate	1		2	3
	Real	Global Listed Infrastructure	1		2	3
	Alts	Hedge Funds*	4		0	4
	A	Private Equity*	7		0	7

Source: Northern Trust Investment Strategy. Allocations above reflect Northern Trust's Wealth Management Model (Moderate, Accredited investment objective). Tactical recommendations (in the form of over/under/equal w eights) are displayed in the bar chart. Allocations as of 6/13/2019. SAA = Strategic Asset Allocation. TAA = Tactical Asset Allocation.*Note: Due to illiquid nature of Alternative asset classes, Northern Trust does not make tactical recommendations. northerntrust.com | © 2019 NorthernTrust



Subdued inflation has been a key driver of favorable risk asset returns over the last few years; an unexpected jump in cyclical inflation would put at risk the Interest Rate Relief Valve base case above.

Trade Armistice

Positive trade talks (perhaps coming out of the June 28-29 G20) would (temporarily) expose our interest-rate sensitive and underweight EME portfolio to higher rates and improved global risk-taking sentiment.

MULTI-ASSET CLASS INVESTING



We're Entering a Lower Return Environment

FIVE-YEAR ASSET CLASS TOTAL RETURN FORECASTS (%)

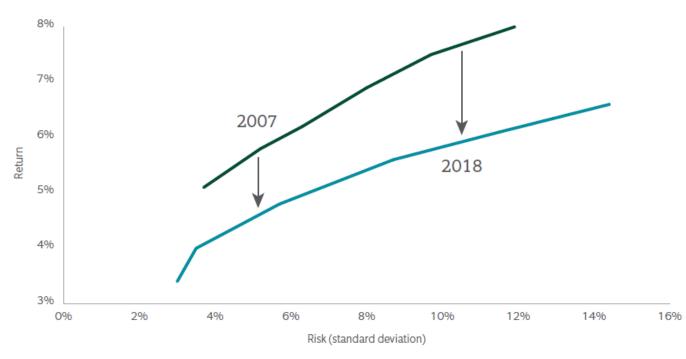


Over the next five years, the base case may only be a 5% portfolio return.

Source: Northern Trust Asset Management. Pre-tax strategic, growth and income investor portfolio model. All figures in percentage terms. Forward-looking statements could differ from actual results. For illustrative purposes only. CMA model expected returns do not show actual performance. Forecasts are as of 2018.

Delivering Returns is Getting Harder

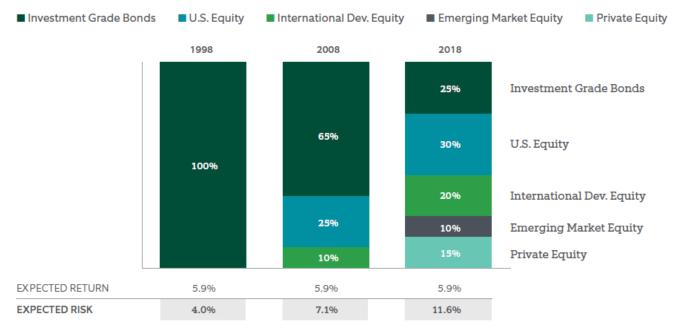
EFFICIENT FRONTIERS - 2007 VS. 2018



Not only are investors finding it more difficult to generate returns versus 10 years ago — it's taking more research, duediligence and advanced technology to do so.

Source: Northern Trust Asset Management. Shows efficient frontier for Northern Trust Accredited Strategic Asset Allocation model.

EXPECTED RETURN VS. EXPECTED RISK

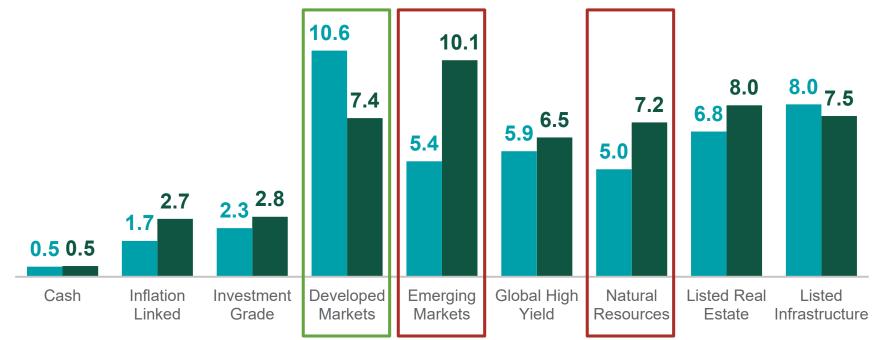


Achieving a consistent return today compared to 10 or 20 years ago requires investors to take on more risk and develop a more complex portfolio.

Source: Northern Trust Asset Management. 1998 expected returns and standard deviations are based on the Bloomberg Barclays Agg. Bond Index. 2008 and 2018 expected returns and standard deviations are based on Northern Trust CMAs for their respective year.

ANNUALIZED FIVE YEAR RETURNS (%)

■ Actual ■ 2013 Prediction



Source: Northern Trust Investment Strategy Bloomberg, NT Portfolio Construction Desk, Bloomberg. Actual data from 6/30/2013 to 6/30/2018. Past performance is no guarantee of future results. Index performance returns do not reflect any management fees, transaction costs or expenses. It is not possible to invest directly in any index. Indexes are gross of fees.

Diversification Provides Greater Predictability

ANNUALIZED FIVE YEAR RETURNS (%)

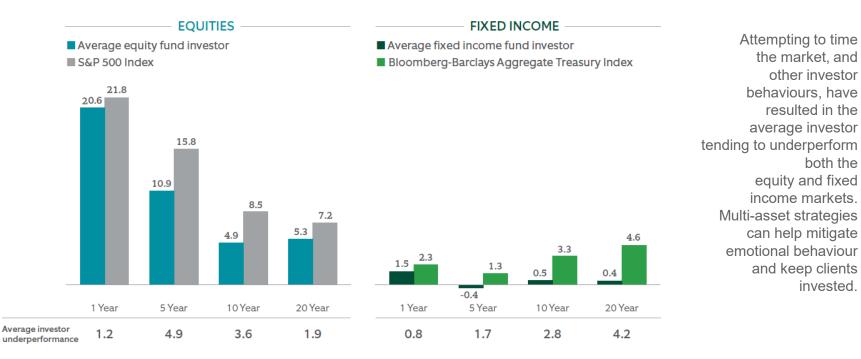
■ Actual ■ 2013 Prediction



Source: Northern Trust Investment Strategy Bloomberg, NT Portfolio Construction Desk, Bloomberg. Actual data from 6/30/2013 to 6/30/2018. Past performance is no guarantee of future results. Index performance returns do not reflect any management fees, transaction costs or expenses. It is not possible to invest directly in any index. Indexes are gross of fees.

Avoid the Performance Drag Caused by Investor Behavior

THE RESULTS OF INVESTOR BEHAVIOUR - ANNUALISED RETURNS FOR 1998-2017 (%)

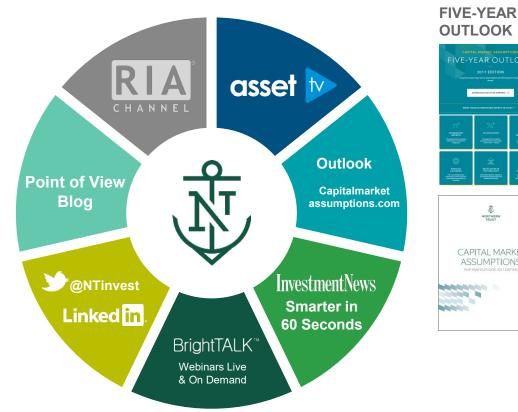


Source: Dalbar 2018 QAIB Report. Data as of 12/31/2017.

QUESTIONS



Accessing Our Global Investment Insights



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NORTHERN CAPITAL MARKET **ASSUMPTIONS**

INVESTMENT **STRATEGY** COMMENTARY

THE RETURN OF	
VOLATILITY	
February 6,2858	
Over the last week, a lot more has changed in the financial markets that in the real occorry.	AND A MODEL
WHAT HAS HAPPENED?	
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PERSPECTIVE Monthly Tactical Updates



MARKETSCAPE Meaningful Insights in Less Than 3 Minutes



BLOG Timely Market Perspectives





Biography



James D. McDonald Chief Investment Strategist

Jim McDonald is an Executive Vice President and the Chief Investment Strategist for Northern Trust. He is the co-portfolio manager of the Northern Global Asset Allocation Fund and he chairs the Northern Trust Tactical Asset Allocation Committee. In addition, he is a member of the Investment Policy Committee and is a trustee of the 50 South Capital Alpha Strategies and Equity Long/Short Strategies Hedge Funds.

Prior to joining Northern Trust in 2001 as the Director of Equity Research, Jim was Director of Equity Research at ABN AMRO in New York and Chicago (1994-2000) and Equity Research Analyst at ABN AMRO following the Environmental Services Industry (1990-1994). He started his professional career in 1981 with Arthur Andersen & Co. in Detroit.

McDonald received a BBA from the University of Michigan and an MBA degree with high distinction from Babson College. He is a member of the CFA® Society of Chicago and a registered CPA in the State of Michigan.

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