

The GIC Weekly



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Upcoming Catalysts

Jan. 14 US business inventories
Jan. 14 US new home sales
Jan. 14 US construction spending
Jan. 14 US factory orders
Jan. 14 US durable goods orders
Jan. 14 US trade balances
Jan. 15 Empire State Manufacturing Survey
Jan. 15 US Producer Price Index
Jan. 15 Japan Producer Price Index
Jan. 16 US retail sales
Jan. 16 US import/export prices
Jan. 17 US building permits
Jan. 17 US housing starts
Jan. 17 Philadelphia Fed Survey
Jan. 17 U. of M. Consumer Sentiment Index
Jan. 17 Japan industrial production
Jan. 17 Euro Zone Consumer Price Index

What We Are Talking About

- Navigating Self-Inflicted Wounds.** Market action suggests investors think that December's damage was probably excessive and, even with rising uncertainty, valuations had become attractive; recent US economic data, while mixed and decelerating, is still far from recessionary; Fed officials have reiterated their patience and data dependency for rate hikes and balance sheet reduction; China's policymakers continue to stimulate, trying to engineer a soft landing; while things are not falling apart, the business cycle is increasingly fragile and thus vulnerable to policy uncertainty around trade disputes, the federal government's partial shutdown and global oil markets; consumer confidence has turned down, which could set the tone for 2019; failure to deliver quick, positive policy resolutions could add to US market headwinds. Political chaos in Washington, not Fed policy or market fundamentals, is a major risk. **Consider** unhedged equity exposure to emerging markets, Japan and Europe.

Navigating Self-Inflicted Wounds

December's historic market rout, which turned the S&P 500's annual return negative for the first time in a decade, has quickly been dashed by investors. Two weeks into 2019, stocks are up 3.5% and have gained 10.4% since the Christmas Eve lows. One major catalyst for the rebound was the attraction of equities as valuation, sentiment and positioning had become extreme. While short-covering has certainly been a factor, positive news flow has assuaged anxieties, too.

Deteriorating data about weak manufacturing activity and plummeting new orders were quickly countered by an exceptionally strong December employment report that showed US labor markets remained vigorous and suggested accelerating wage growth, a factor that supported solid holiday retail sales and bodes well for total consumption in the current quarter. Fears that the Federal Reserve was too wedded to a policy path on both rate hikes and the balance sheet reduction were short-lived, quickly dispelled by

Chair Jerome Powell's public statements and the minutes from the Fed's December meeting. In China, where economic slowing appeared to be worsening, policymakers instituted aggressive measures to prop up the economy—fiscal stimulus, tax reform and a 50-basis-point cut in bank reserve requirements. Finally, a rebound in oil prices bolstered investor confidence; an early reading on producer compliance with OPEC 2.0's production cuts looked encouraging.

All told, the Global Investment Committee remains comfortable that 2019 can deliver positive equity returns in the US and the economy can slow without tumbling into a full-blown recession. Even so, both the business cycle and the market cycle are fragile and vulnerable to the vagaries of Washington. Unlike 2018, when corporate confidence seemed to drive the economy, this year it is the consumer that will likely determine marginal growth and political noise could weigh negatively on sentiment. In this regard, a major pullback in consumer confidence in December bears watching (see *Chart of the Week*, page 3). Although current market sentiment seems to discount an ultimate positive resolution to many of the ongoing controversies, we are cautious as risk premiums may need to stay wide to compensate for ongoing and mounting uncertainty.

Certainly, the outlook for US-China trade negotiations has brightened since the start of the year as the March 2 negotiating deadline approaches. The realization that there could be serious supply chain damage—even to large consumer electronics manufacturers once thought immune—seems to have prompted progress. On Jan. 1, China reduced tariffs on US auto imports to 15% from 40% and pledged to increase purchases of US agricultural products and liquefied natural gas. Also, as part of the China 2025 plan, it agreed to revisit its policy of forcing non-Chinese companies to transfer technologies as part of getting permission to operate. Morgan Stanley & Co.'s Policy Strategist Michael Zezas is increasingly confident that the US and China will get to a “negotiating framework” to avoid escalation of tariffs, but we think reaching a broad agreement remains tenuous and increasingly vulnerable to the geopolitical narrative of a cold war on multiple fronts. Perhaps more importantly, economic damage may already have been done with supply chain realignments underway and new bilateral trade partnerships that don't include the US. These issues could actually cast a long shadow, exacerbating US corporate profit pressures just as sales growth was already slowing and profit margins were peaking.

The partial government shutdown of the US government has thus far had limited impact on markets, which seem to view it as

political gamesmanship. But the longer the shutdown goes on, the greater the impact on both consumer confidence and the real economy. Scott Helfstein, a market strategist at Morgan Stanley Wealth Management, says the shutdown affects about 25% of the government's discretionary spending budget of \$328 billion (see *Geo-Markets*, Jan. 8). That means US GDP growth drops by 0.1% for every two weeks of the shutdown.

Investors also face policy ambiguity vis-à-vis OPEC 2.0. Unanticipated policy shifts, like the US' surprise six-month suspension of Iranian oil sanctions—seen as a type of punishment for Saudi Arabia for the killing of journalist Jamal Khashoggi—roiled oil markets by driving a supply glut. So far, the cartel's recent production cuts appear to be sticking and the per-barrel price of West Texas Intermediate crude has rallied 25% toward \$52 in the last three weeks. That said, stability is tenuous when US policy toward Syria, Iraq and Afghanistan is unclear and fluid, and the potential for Russian pushback remains high.

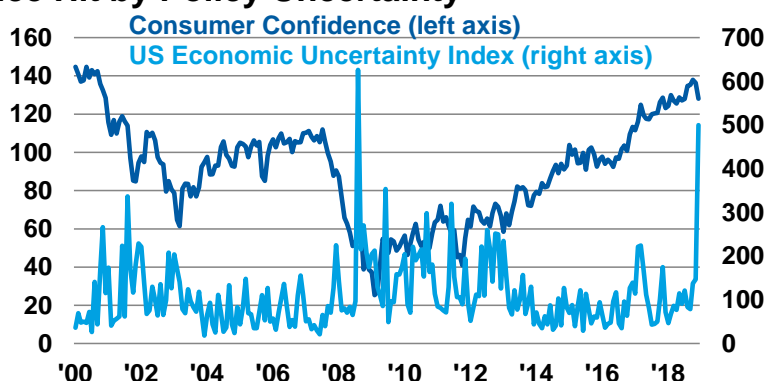
Despite the potential for positive policy resolution, complications and constraints are likely to remain throughout the year. On the political side, pressure from a Democratic majority in the House of Representatives regarding investigations of impropriety around the 2016 election and the operations of the Trump administration are likely to be unrelenting, while pushback will likely be fierce. Fiscal policy also faces obstacles as autumn will likely bring another fight over the debt ceiling—and concerns about the US' AA credit rating, which was downgraded from AAA in 2011. With deficits and debts ballooning and Treasury issuance up, the price of debt-fueled fiscal policy is increasing. Recent US Treasury auctions have seen the lowest bid/cover ratios—the number of bids received for a Treasury auction versus the number accepted—in a decade. The decline in this ratio, an indicator of demand strength, coincides with a weakening of the US dollar (see *Fixed Income Insight*, page 5).

Bottom Line: Washington policy was a material tailwind in 2018, but now we see it as an ongoing source of uncertainty and risk. The implication is that while markets may retrace oversold conditions, valuations are unlikely to recover prior levels. With growth slowing, financial conditions tightening, fiscal debts and deficits ballooning, and profit margins peaking, the price of missteps in Washington could be high. They could undercut consumer confidence and further prompt global investors to demand a higher return for holding US assets. **Watch** the value of the dollar and bid/cover ratios for Treasuries to gauge appetite for US assets. **Consider** unhedged equity exposure to emerging markets, Japan and Europe. ■

THE GIC WEEKLY

Chart of the Week: Consumer Confidence Hit by Policy Uncertainty

The December US employment report showed ample jobs, low unemployment rates, improving participation rates and accelerating wage growth of 3.3% year over year. So when the Conference Board Consumer Confidence Index dropped to 128.1 from a cycle high of 135.3, it was a surprise as such disconnects are uncommon. We surmise that chaos in Washington is increasingly on consumers' minds and, in fact, the Baker, Bloom, Davis Index of US Economic Policy Uncertainty hit a cycle high on Jan. 11. (The index is based on newspaper articles.) In our view, much of this uncertainty is self-inflicted and, without a quick resolution, could weigh on valuation of all US assets from stocks to credit to Treasuries and even the dollar.



Source: Bloomberg, Haver Analytics as of Jan. 11, 2019

Asset Class Performance and Heat Map (as of Jan. 11, 2019)

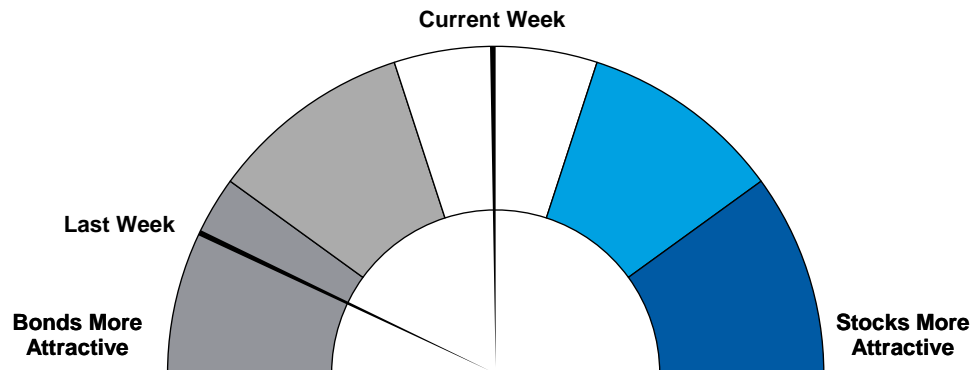
Asset Class	Annualized Returns (%)							Yield	Valuation		Volatility (%)		Correlation to Global Equities	
	YTD	1-Yr.	2018	3-Yr. ¹	5-Yr. ¹	10-Yr. ¹	20-Yr. ¹		Current YTM	Current YTM	Avg. YTM ²	30 Days	20 Yrs. ¹	30 Days
Cash								2.41	2.41	1.79	0.08	0.56	-0.05	-0.05
90-Day US Treasury Bills	0.1	1.9	1.9	1.0	0.6	0.4	0.8	2.41	2.41	1.79	0.08	0.56	-0.05	-0.05
Global Equities								Current Div. Yld.	Current P/E	Avg. P/E ²				
US Large-Cap Growth	3.7	-1.8	-0.9	11.2	10.8	15.3	4.6	1.14	19.6	20.9	34.6	17.0	0.94	0.89
US Large-Cap Value	3.4	-5.9	-6.5	7.8	6.7	10.8	5.6	3.32	12.4	13.8	25.0	13.9	0.93	0.88
US Mid-Cap Growth	5.4	-6.8	-7.9	6.1	6.0	14.4	6.5	0.73	19.1	26.6	31.2	22.6	0.94	0.80
US Mid-Cap Value	5.3	-8.7	-11.4	7.9	6.4	13.4	8.7	3.19	12.9	14.4	25.0	16.0	0.92	0.87
US Small-Cap Growth	6.7	-3.7	-6.6	9.5	6.3	15.1	9.3	0.67	24.7	24.1	32.5	21.3	0.94	0.83
US Small-Cap Value	7.4	-9.3	-13.3	6.7	4.8	12.9	8.8	3.06	14.5	17.2	27.1	17.1	0.91	0.84
Europe Equity	3.7	-13.2	-14.3	2.7	0.0	6.8	3.7	4.02	12.4	14.0	18.9	17.9	0.61	0.94
Japan Equity	4.0	-13.7	-12.6	3.8	3.4	5.6	3.1	2.58	11.5	19.4	27.6	16.4	-0.04	0.70
Asia Pacific ex Japan Equity	4.4	-7.6	-10.2	6.9	2.2	10.0	8.6	4.19	14.2	14.5	16.6	19.6	0.58	0.88
Emerging Markets	3.7	-14.0	-14.2	9.7	2.0	8.4	8.8	2.91	11.0	11.3	14.2	21.8	0.68	0.87
Global Fixed Income								Current YTM	Current Spread	Avg. Spread ²				
Short-Term Fixed Income	0.0	1.7	1.6	1.2	1.0	1.5	3.1	2.78	21.0	31.0	1.3	1.4	-0.57	-0.14
US Fixed Income	0.2	0.7	0.0	2.1	2.5	3.5	4.5	3.28	51.0	54.0	3.4	3.4	-0.58	-0.03
International Fixed Income	0.9	-1.2	-1.9	3.1	0.3	2.0	3.3	1.27	59.0	49.0	4.0	7.9	-0.20	0.32
Inflation-Protected Securities	1.8	-2.5	-4.2	3.6	1.3	3.9	5.3	-	-	-	5.1	7.7	-0.04	0.45
High Yield	2.4	-2.3	-4.1	6.6	3.3	11.1	7.8	7.19	486.0	500.0	5.3	9.5	0.67	0.75
Emerging Markets Fixed. Inc.	2.4	-5.6	-6.2	5.9	-1.0	3.5	7.7	6.42	310.0	333.5	6.8	11.6	0.42	0.65
Alternative Investments								Current Div. Yld.						
Real Estate/REITs	4.5	-0.7	-5.5	4.4	5.4	10.4	8.6	4.20	-	-	16.4	17.7	0.70	0.80
MLP/Energy Infrastructure ³	10.2	-10.8	-12.4	-1.1	-7.3	9.6	-	7.93	-	-	38.6	18.6	0.77	0.57
Commodities ex Prec. Metals	4.5	-8.6	-12.5	-0.7	-10.3	-5.0	0.8	-	-	-	17.3	16.8	0.63	0.47
Precious Metals	0.7	-4.4	-4.6	5.1	-0.9	3.1	6.8	-	-	-	8.4	19.1	-0.17	0.18
Hedged Strategies ⁴	1.3	-7.0	-6.7	0.4	-0.6	1.5	-	-	-	-	4.2	6.0	0.86	0.65
Managed Futures ⁵	-2.9	-8.1	-3.2	-1.3	-0.1	-1.9	-	-	-	-	9.0	7.8	-0.65	0.18
S&P 500	3.6	-4.3	-4.4	9.3	8.5	13.1	5.6	2.00	15.1	15.8	29.04	14.5	0.95	0.95
Russell 2000	7.4	-7.6	-11.0	7.4	4.4	12.0	7.4	1.38	25.9	20.3	30.63	19.4	0.93	0.82
MSCI EAFE	3.9	-12.6	-13.4	3.4	1.0	6.8	4.0	3.68	12.3	14.8	14.66	16.3	0.56	0.96
MSCI AC World	3.9	-8.4	-8.9	7.2	4.8	10.0	5.0	2.78	13.5	15.3	19.02	15.2	1.00	1.00

Note: Performance values calculated using USD. 1. As of Dec. 31, 2018. 2. 20-year average as of Dec. 31, 2018. 3. Volatility and Correlation: June 30, 2006 – Present. 4. Volatility and Correlation: Jan 31, 1998 – Present Hedged strategies consist of hedge funds and managed futures 5. Volatility and Correlation: February 28, 1998 – Present. Cheap = Below -0.5 standard deviation; Moderate = Between +0.5 standard deviation and -0.5 standard deviation; Expensive = Above +.5 std dev. Standard deviation (volatility) is a measure of the dispersion of a set of data from its mean. Source: Factset, Bloomberg, Morgan Stanley Wealth Management GIC.

Cheap	Low	Low
Moderate	High	High
Expensive		

THE GIC WEEKLY

Short-Term Stock and Bond Indicator



	Macro		Policy		Fundamentals		Sentiment and Technicals	
	Growth	Inflation	Rates	Liquidity	Valuation & Market	Earnings	Sentiment	Technicals
Current	Neutral	Neutral	Very Positive	Neutral	Very Negative	Neutral	Neutral	Neutral
Last Week	Neutral	Very Negative	Very Positive	Very Negative	Neutral	Neutral	Very Negative	Very Negative

Indicator	Category	Reading
PMI (+)		Neutral
Durable Goods (+)	Growth	Neutral
Retail Sales (+)		Neutral
Manufacturing Hours Worked (+)		Neutral
Commodity Prices (+)		Neutral
Yield Curve: 10-Yr./Three-Mo.(-)	Rates	Risk On
Yield Curve: Two-Yr./Three-Mo.(-)		Risk On
Pace of Interest Rate Hikes (-)		Risk On
Term Premium Model (-)		Risk Off
High Yield Spreads (-)	Liquidity	Neutral
Investment Grade Spreads (-)		Risk Off
Financial Conditions (-)		Neutral
S&P 500 Earnings/Baa Yield (+)	Valuation & Market Behavior	Neutral
Large vs. Small Performance (-)		Neutral
High- vs. Low-Quality Performance (-)		Neutral
High- vs. Low-Beta Performance (+)		Neutral
S&P 500 Forward Price/Earnings Ratio (+)		Risk Off
Earnings Revisions Breadth (-)	Earnings	Neutral
Global Risk Demand (+)	Sentiment	Neutral
Implied Currency Volatility (-)		Neutral
Five-Yr. Macro Sensitivity (-)		Neutral
% Stocks Above 200-Day Moving Avg. (+)	Technicals	Neutral
Cumulative Advance/Decline (+)		Neutral
S&P 500 Put/Call Ratio (-)		Neutral
Emerging Market Fund Flows (+)		Neutral
Smart Money Flow Index (+)		Neutral
Note: + Indicates that a rise in the indicator is linked to a more favorable outlook for risk assets; - indicates that a rise in the indicator is linked to a less favorable outlook for risk assets. Color coding is set in accordance with the impact on risk assets.		Positive for Stocks Relative to Bonds
		Neutral
		Negative for Stocks Relative to Bonds

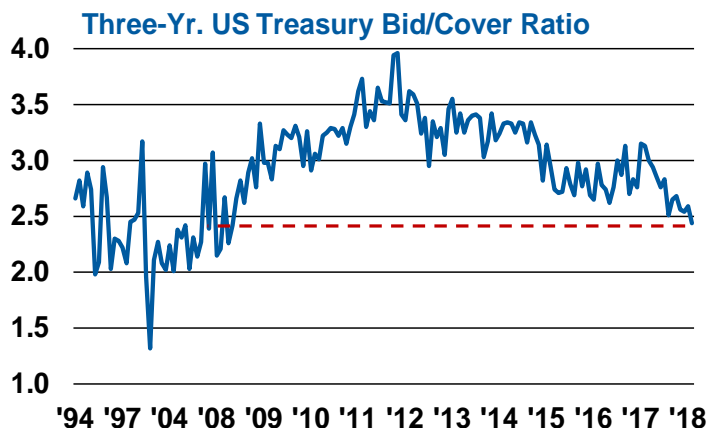
Note: Commodity prices are represented by the Bloomberg Commodity Index; pace of interest rate hikes by the Morgan Stanley Pace of Rate Hikes Index; high yield spreads by the Bloomberg Barclays Aggregate US High Yield Index; investment grade spreads by the Bloomberg Barclays US Aggregate Index; financial conditions by the Morgan Stanley Financial Conditions Index; global risk demand and implied currency volatility by the Morgan Stanley Standardized Global Risk Demand Index. For more information on our Term Premium Model, please refer to our special report, *Using the Term Premium to Manage Portfolio Duration*, March 2016.

Source: Morgan Stanley Wealth Management GIC, Morgan Stanley & Co., Haver Analytics, Bloomberg, FactSet as of Jan. 11, 2019

THE GIC WEEKLY

Fixed Income Insight: Bad Time for the Appetite for US Treasuries to Be Waning

Expanding US fiscal budget deficits caused Treasury issuance to increase by close to \$1 trillion in 2018. With auction volumes forecast to remain on an upward trajectory, we have begun watching the bid/cover ratio as an early indication that appetite for US debt is waning. If so, this development would put upward pressure on real rates. Data for the recent three-year Treasury note auction show that this ratio continues to deteriorate and is now at levels last seen in 2008 (see chart). The timing is particularly precarious given the Federal Reserve's rate hikes and balance sheet normalization, and the potential weakening of the US dollar. Washington gridlock and the potential fiscal cliff and debt ceiling showdown likely in October 2019 could keep this issue in the spotlight—once again neutralizing Treasuries' efficacy as a good portfolio diversifier for stocks.



Source: Bloomberg as of Jan. 10, 2019

Government Debt Monitor

	US			
	Yield (%)			Total Return (%)
Treasury Benchmark	Current	ΔWTD	ΔYTD	YTD
3-Month	2.41	0.01	0.06	0.07
2-Year	2.54	0.05	0.05	-0.02
5-Year	2.53	0.03	0.02	0.02
10-Year	2.70	0.03	0.02	0.02
30-Year	3.03	0.05	0.02	-0.20
2-Yr./10-Yr. Spread (bp)	16	-1.41	-3.65	-
10-Yr. TIPS Breakeven (bp)	183	6.91	11.62	-
Interest Rate Volatility† (bp)	56	-9.88	-10.64	-

Fixed Income Spread Dashboard

	Duration (Yrs.)	Yield-to-Worst (%)	OAS (bp)	OAS Range**	
				Rich	Cheap
Investment Grade	MBS*	4.25	3.39	37	17 — 44
	AAA	4.33	2.87	26	18 — 42
	AA	5.36	2.97	18	11 — 20
	A	7.06	3.85	117	68 — 124
	BBB	7.12	4.63	194	115 — 207
High Yield	BB	4.27	5.75	315	212 — 392
	B	3.71	7.54	482	332 — 598
	CCC	3.34	13.04	1,133	728 — 1,272

Unless stated, indexes utilized are FTSE Broad Investment Grade, FTSE High Yield, and FTSE Global Indexes

†Interest Rate Volatility measured by Merrill Lynch Option Volatility Estimate (MOVE) Index

*MBS distills high grade agency-rated mortgage-backed securities, a substantial subsector of investment grade indexes.

**OAS stands for Option-Adjusted Spread or spread over the Treasury. Grey diamond denotes current OAS; blue circle denotes two-year average.

Source: Bloomberg, The Yield Book® Software and Services. © 2019 FTSE Index LLC. All rights reserved. Data as of Jan. 11, 2019

Government Debt Monitor

	Global			
	Yield (%)			Total Return (%)*
10-Year Govt. Bond	Current	ΔWTD	ΔYTD	YTD
France	0.66	-0.04	-0.04	0.52
Germany	0.24	0.03	0.00	0.50
Japan	0.01	0.06	0.02	0.08
Spain	1.44	-0.03	0.03	-0.15
UK	1.29	0.01	0.01	-0.07
3-Month LIBOR	2.80	-0.01	-0.01	-
US Tax Exempt				
10-Year AAA Muni	2.26	0.00	-0.06	0.32
10-Yr. Muni/UST Ratio	83.72	-3.63	-2.57	-

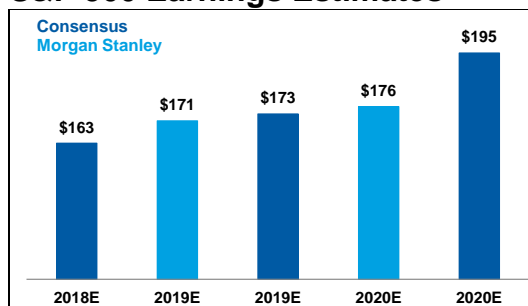
Benchmark Returns

Index	Total Returns (%)		
	YTD	MTD	2017
Bloomberg Barclays US Aggregate	0.18	0.18	0.01
Bloomberg Barclays US MBS	0.17	0.17	0.99
Bloomberg Barclays US IG Corporate	0.50	0.50	-2.51
Bloomberg Barclays Municipal	0.32	0.32	1.28
Bloomberg Barclays US High Yield	3.13	3.13	-2.08
Bloomberg Barclays Global Aggregate	0.59	0.59	-1.20
JPMorgan Emerging Market	1.71	1.71	-4.61

*Global total returns reflect Citigroup 7- to 10-year bond indexes and Muni total returns reflect Bloomberg Barclays Municipal Bond Index Total Return
Source: Bloomberg, Thomson Reuters Municipal Market Data (MMD) as of Jan. 11, 2019

THE GIC WEEKLY

S&P 500 Earnings Estimates



MS & Co. S&P 500 Price Target: Year-End 2019

Landscape	Earnings	Price/Earnings Multiple	Price Target	Upside / Downside
Bull Case	\$185	16.0	3,000	15.6%
Base Case	\$176	15.5	2,750	5.9%
Bear Case	\$161	15.0	2,400	-7.6%
Current S&P 500 Price			2,596	

Source: FactSet, Thomson Reuters, Morgan Stanley & Co. Research as of Jan. 11, 2019

Note: 2019 price targets are based on estimated 2020 earnings. Source: Thomson Reuters, Morgan Stanley & Co. Research as of Jan. 11, 2019

S&P 500 Sector Performance and Valuation (as of Jan. 11, 2019)

Index Name	Total Return			Dividend Yield (%)	Beta	20-Year Avg. Forward 12-Mo. PE	Forward 12-Mo. P/E*
	WTD (%)	YTD (%)	1-Year (%)				
S&P 500	2.58	3.63	-4.34	2.00		15.8	15.1
Energy	3.35	8.07	-16.67	3.25	0.97	17.4	16.6
Materials	1.90	3.42	-15.72	2.05	0.97	13.9	14.0
Industrials	4.09	5.38	-13.16	2.11	1.02	16.1	14.2
Consumer Discretionary	3.74	6.00	1.63	1.30	1.10	18.0	19.4
Consumer Staples	0.65	1.64	-6.50	3.06	0.56	16.8	17.1
Health Care	2.26	1.63	3.71	1.66	0.94	16.7	15.1
Financials	1.04	2.85	-13.78	2.02	0.98	12.7	10.8
Information Technology	3.37	2.55	-2.19	1.61	1.32	20.4	15.7
Telecommunication Services	2.33	6.26	-4.65	1.51	0.86	16.0	16.6
Utilities	0.84	0.61	9.11	3.38	0.24	14.3	16.3
Real Estate	3.98	3.16	5.73	3.40	0.52	15.3	17.1

*Dark blue/light blue/gray fill denotes whether current relative forward 12-month P/E is low/neutral/high relative to history. Source: Morgan Stanley & Co. Research

Performance of Style and Cap Pairs (as of Jan. 11, 2019)



Source: Morgan Stanley & Co. Small Cap is represented by the Russell 2000 Index; Large Cap represented by the Russell 1000 Index; Growth represented by the Russell 1000 Growth Index; Value represented by the Russell 1000 Value Index. Cyclical and Defensive, and Quality and Junk are based on Morgan Stanley & Co. Research analysis.

THE GIC WEEKLY

Morgan Stanley & Co. Forecasts (as of Jan. 11, 2019)

	Real GDP Growth (%)			10-Yr. Govt. Bond Yield (%)		Headline Inflation (%)			Currency Versus US Dollar		
	2018E	2019E	2020E	Q2 '19E	Q4 '19E	2018E	2019E	2020E	Q1 '19E	Q3 '19E	Q1 '20E
Global	3.7	3.5	3.5			2.9	2.9	3.0			
US	2.9	2.3	1.9	3.00	2.75	2.4	1.8	2.6			
Euro Zone	1.9	1.6	1.5			1.8	1.4	1.7	1.17	1.26	1.34
UK	1.2	1.3	1.6	1.80	1.90	2.5	2.1	2.1	1.34	1.45	1.54
Japan	0.7	1.2	0.6	0.20	0.18	1.1	0.8	0.5	109	104	100
Emerging Markets	4.8	4.7	4.8			3.5	3.7	3.6			
China	6.6	6.3	6.1			2.2	2.6	2.4	7.05	6.92	6.81

Source: Morgan Stanley & Co. Research

Macro Factor Heat Map (as of Jan. 11, 2019)

	Economic Growth	Rates	Inflation / Deflation	Liquidity	Sentiment and Risk	Valuation	Earnings	GIC Conclusion
Japan	↓ Economic Growth Slowing	↑	↑	↓	↑ Rising RSI and GRDI	↓	↓	Improving Profits and Weaker Yen
Europe	↓	↓	↑	↓	↓	↓	↑	Cyclical Headwinds from China Trade Links Abating
China	↓	↑	↑	↓	↑ Rising RSI and GRDI	↓	↑	Soft Landing Better than Expected
Brazil	↓ Economic Growth Improving	↓	↑	↑	↑ Rising RSI and GRDI	↑	↓	Political Stability Supports Recovery
	Risk Asset Positive	Neutral	Risk Asset Negative					

Note: Text in a factor box denotes a color change; In **Japan**, Economic growth moved from Neutral to Negative as growth is slowing and Sentiment and Risk moved from Positive to Neutral as RSI and GRDI are rising; In **China**, Sentiment and Risk moved from Positive to Neutral as RSI and GRDI are rising; In **Brazil**, Economic growth moved from Negative to Neutral as growth is improving and Sentiment and Risk moved from Neutral to Negative as RSI and GRDI are rising; for further explanation of the chart, see page 9.

Source: Morgan Stanley Wealth Management GIC

Market Factor Data Points (for the week ending Jan. 11, 2019)

	Positives	Negatives
Global Growth	<ul style="list-style-type: none"> US weekly initial jobless claims fell to 216,000 vs. 226,000 expected NFIB Small Business Optimism Index beat estimates in December at 104.4 vs. 103.0 projected November Euro Zone retail sales outperformed expectations in November at 1.1% year over year vs. 0.4% forecast Euro Zone unemployment rate came in at 7.9% in November, below 8.1% expected Japan trade balance for November at -¥559.1 billion vs. the projected -¥612.6 billion 	
Inflation	<ul style="list-style-type: none"> Real average hourly wages continued to accelerate, up 1.1% 	

Source: Morgan Stanley Wealth Management GIC

THE GIC WEEKLY

Tactical Asset Allocation Reasoning

Global Equities	Relative Weight Within Equities	
US	Underweight	US equities had a very difficult finish to 2018 after holding up better than other equity markets through the first three quarters. The highest quality market is always the last to fall and so we view the sell-off in US equities as a good sign that the worst of the cyclical bear market we expected at the beginning of 2018 is now behind us. We may look to revisit our position in US equities if the S&P 500 trades below 2,400 on a re-test of the lows made in December. From those levels, our target of 2,750 offers attractive upside.
International Equities (Developed Markets)	Overweight	We maintain a positive bias for Japanese and European equity markets. The populist movements around the world are likely to drive more fiscal policy action in both regions, especially in Europe, which will allow the central banks to exit their extraordinary monetary policies and valuations to rise.
Emerging Markets	Overweight	After a difficult first 10 months of 2018, emerging market (EM) equities have performed relatively well, a positive sign for future leadership. With the US dollar appearing to have made a cyclical top, global nominal GDP growth could trough in the first quarter as China's fiscal stimulus takes hold. This should disproportionately benefit EM equities.
Global Fixed Income	Relative Weight Within Fixed Income	
US Investment Grade	Underweight	We have recommended shorter-duration* (maturities) since March 2013 given the extremely low yields and potential capital losses associated with rising interest rates from such low levels. With the Quantitative Easing era now over, long-duration bonds are unlikely to provide the same level of portfolio diversification benefits as they have in the past. Therefore, we remain underweight long-duration bonds.
International Investment Grade	Underweight	Yields are even lower outside the US, leaving very little value in international fixed income, particularly as the global economy begins to recover more broadly. While interest rates are likely to stay low, the offsetting diversification benefits do not warrant much, if any, position, in our view.
Inflation-Protected Securities	Overweight	With the recent collapse in oil prices weighing on inflation expectations, these securities still offer relative value in the context of our expectations for global growth to accelerate, oil prices to trough and the US dollar to top. In short, inflation risk is underpriced.
High Yield	Underweight	High yield bonds have recently fallen victim to the rolling bear market we predicted for global asset markets in 2018. They now offer better risk/reward, but equities still look more attractive given their recent correction. With a zero weighting in high yield since January 2018, we will revisit our allocation to high yield bonds during 2019 if spreads continue to widen.
Alternative Investments	Relative Weight Within Alternative Investments	
REITs	Underweight	Real estate investment trusts (REITs) have rebounded in the second half of 2018 as global growth fears returned and interest rates fell. However, REITs remain expensive and are vulnerable to credit risks. We will revisit our position as nominal GDP troughs and/or valuations become more attractive.
Master Limited Partnerships/Energy Infrastructure*	Overweight	Master limited partnerships (MLPs) rebounded sharply in the first half of 2018 only to give it all back as oil prices collapsed in the fourth quarter. With oil prices recovering again and a more favorable regulatory environment, MLPs should provide a reliable and attractive yield relative to high yield. The supply shortages from Iranian sanctions should also be supportive for fracking activity and pipeline construction, both of which should lead to an acceleration in dividend growth.
Hedged Strategies (Hedge Funds and Managed Futures)	Equal Weight	This asset category can provide uncorrelated exposure to traditional risk-asset markets. It tends to outperform when traditional asset categories are challenged by growth scares and/or interest rate volatility spikes. With the recent surge in volatility, these strategies could perform better on a relative basis.

***For more about the risks to Master Limited Partnerships (MLPs) and Duration, please see the Risk Considerations section beginning on page 10 of this report.**

Source: Morgan Stanley Wealth Management GIC as of Jan. 11, 2019

THE GIC WEEKLY

Macro Factor Heat Map Key (see page 7)

	Economic Growth	Rates	Inflation / Deflation	Liquidity	Sentiment and Risk	Valuation	Earnings	Conclusion
Dark Blue	Economic growth robust	Steep yield curve	Low-moderate and rising inflation	Liquidity robust in economy / banking system	Shorter-term sentiment and technicals bearish	Risk assets attractively valued	Earnings outlook robust	Confluence of factors supports a risk-on investment approach
Light Blue	Economic growth neutral	Normal yield curve	Low-moderate and declining inflation; moderate inflation; higher and falling inflation	Liquidity neutral in the economy / banking system	Shorter-term sentiment and technicals neutral	Risk assets neutral	Earnings outlook neutral	Confluence of factors supports a neutral investment approach
Gray	Economic growth anemic	Flat/inverted yield curve	Very high/low inflation/deflation; high and rising inflation	Liquidity low in economy / banking system	Shorter-term sentiment and technicals bullish	Risk assets are richly valued	Earnings outlook anemic	Confluence of factors supports a risk-off investment approach
Up	Growth accelerating	Yield curve steepening	Inflation rising	Liquidity increasing	Sentiment becoming more bullish	Valuations rising	Earnings outlook improving	
Down	Growth declining	Yield curve flattening	Inflation falling	Liquidity decreasing	Sentiment becoming more bearish	Valuations falling	Earnings outlook worsening	
Signal Horizon	One to three years	One to three years	One to three years	One to three years	One to three months	Six months to two years	Six months to two years	
Inputs	<ul style="list-style-type: none"> • Industrial production • Unemployment • Total return • Earnings revisions • Home prices • OECD LEI (China and Brazil) • MS & Co. ARIA (US) 	<ul style="list-style-type: none"> • 10-year vs. 2-year government bond yield spread 	<ul style="list-style-type: none"> • Consumer Price Index 	<ul style="list-style-type: none"> • M1 growth • Private credit growth • Libor-OIS spread 	<ul style="list-style-type: none"> • MS US Equity Risk Indicator (US) • MS Combined Market Timing Indicator (Europe) • MS Global Risk Demand Index • Relative strength index • Members above / below moving average. • Index above / below moving average • Consumer confidence 	<ul style="list-style-type: none"> • Forward price/earnings ratio • Price/book ratio • Equity risk premium • High yield option-adjusted spread 	<ul style="list-style-type: none"> • Earnings revisions breadth • Earnings surprise • Return on equity 	<ul style="list-style-type: none"> • Weighted average z-score of all factors

Index Definitions

For index, indicator and survey definitions referenced in this report please visit the following:
<http://www.morganstanleyfa.com/public/projectfiles/id.pdf>

Risk Considerations

MLPs

Master Limited Partnerships (MLPs) are limited partnerships or limited liability companies that are taxed as partnerships and whose interests (limited partnership units or limited liability company units) are traded on securities exchanges like shares of common stock. Currently, most MLPs operate in the energy, natural resources or real estate sectors. Investments in MLP interests are subject to the risks generally applicable to companies in the energy and natural resources sectors, including commodity pricing risk, supply and demand risk, depletion risk and exploration risk.

Individual MLPs are publicly traded partnerships that have unique risks related to their structure. These include, but are not limited to, their reliance on the capital markets to fund growth, adverse ruling on the current tax treatment of distributions (typically mostly tax deferred), and commodity volume risk.

The potential tax benefits from investing in MLPs depend on their being treated as partnerships for federal income tax purposes and, if the MLP is deemed to be a corporation, then its income would be subject to federal taxation at the entity level, reducing the amount of cash available for distribution to the fund which could result in a reduction of the fund's value.

MLPs carry interest rate risk and may underperform in a rising interest rate environment. MLP funds accrue deferred income taxes for future tax liabilities associated with the portion of MLP distributions considered to be a tax-deferred return of capital and for any net operating gains as well as capital appreciation of its investments; this deferred tax liability is reflected in the daily NAV; and, as a result, the MLP fund's after-tax performance could differ significantly from the underlying assets even if the pre-tax performance is closely tracked.

Duration

Duration, the most commonly used measure of bond risk, quantifies the effect of changes in interest rates on the price of a bond or bond portfolio. The longer the duration, the more sensitive the bond or portfolio would be to changes in interest rates. Generally, if interest rates rise, bond prices fall and vice versa. Longer-term bonds carry a longer or higher duration than shorter-term bonds; as such, they would be affected by changing interest rates for a greater period of time if interest rates were to increase. Consequently, the price of a long-term bond would drop significantly as compared to the price of a short-term bond.

Investing in foreign markets entails greater risks than those normally associated with domestic markets, such as political, currency, economic and market risks. **Investing in currency** involves additional special risks such as credit, interest rate fluctuations, derivative investment risk, and domestic and foreign inflation rates, which can be volatile and may be less liquid than other securities and more sensitive to the effect of varied economic conditions. In addition, international investing entails greater risk, as well as greater potential rewards compared to U.S. investing. These risks include political and economic uncertainties of foreign countries as well as the risk of currency fluctuations. These risks are magnified in countries with **emerging markets**, since these countries may have relatively unstable governments and less established markets and economies.

Alternative investments often are speculative and include a high degree of risk. Investors could lose all or a substantial amount of their investment. Alternative investments are suitable only for eligible, long-term investors who are willing to forgo liquidity and put capital at risk for an indefinite period of time. They may be highly illiquid and can engage in leverage and other speculative practices that may increase the volatility and risk of loss. Alternative Investments typically have higher fees than traditional investments. Investors should carefully review and consider potential risks before investing. Certain of these risks may include but are not limited to: Loss of all or a substantial portion of the investment due to leveraging, short-selling, or other speculative practices; Lack of liquidity in that there may be no secondary market for a fund; Volatility of returns; Restrictions on transferring interests in a fund; Potential lack of diversification and resulting higher risk due to concentration of trading authority when a single advisor is utilized; Absence of information regarding valuations and pricing; Complex tax structures and delays in tax reporting; Less regulation and higher fees than mutual funds; and Risks associated with the operations, personnel, and processes of the manager. Further, opinions regarding Alternative Investments expressed herein may differ from the opinions expressed by Morgan Stanley Wealth Management and/or other businesses/affiliates of Morgan Stanley Wealth Management.

Certain information contained herein may constitute forward-looking statements. Due to various risks and uncertainties, actual events, results or the performance of a fund may differ materially from those reflected or contemplated in such forward-looking statements. Clients should carefully consider the investment objectives, risks, charges, and expenses of a fund before investing.

Alternative investments involve complex tax structures, tax inefficient investing, and delays in distributing important tax information. Individual funds have specific risks related to their investment programs that will vary from fund to fund. Clients should consult their own tax and legal advisors as Morgan Stanley Wealth Management does not provide tax or legal advice.

Interests in alternative investment products are offered pursuant to the terms of the applicable offering memorandum, are distributed by Morgan Stanley Smith Barney LLC and certain of its affiliates, and (1) are not FDIC-insured, (2) are not deposits or other obligations of Morgan Stanley or any of its affiliates, (3) are not guaranteed by Morgan Stanley and its affiliates, and (4) involve investment risks, including possible loss of principal. Morgan Stanley Smith Barney LLC is a registered broker-dealer, not a bank.

Managed futures investments are speculative, involve a high degree of risk, use significant leverage, have limited liquidity and/or may be generally illiquid, may incur substantial charges, may subject investors to conflicts of interest, and are usually suitable only for the risk capital portion of an

THE GIC WEEKLY

investor's portfolio. Before investing in any partnership and in order to make an informed decision, investors should read the applicable prospectus and/or offering documents carefully for additional information, including charges, expenses, and risks. Managed futures investments are not intended to replace equities or fixed income securities but rather may act as a complement to these asset categories in a diversified portfolio.

Investing in commodities entails significant risks. Commodity prices may be affected by a variety of factors at any time, including but not limited to, (i) changes in supply and demand relationships, (ii) governmental programs and policies, (iii) national and international political and economic events, war and terrorist events, (iv) changes in interest and exchange rates, (v) trading activities in commodities and related contracts, (vi) pestilence, technological change and weather, and (vii) the price volatility of a commodity. In addition, the commodities markets are subject to temporary distortions or other disruptions due to various factors, including lack of liquidity, participation of speculators and government intervention.

Physical precious metals are non-regulated products. Precious metals are speculative investments, which may experience short-term and long term price volatility. The value of precious metals investments may fluctuate and may appreciate or decline, depending on market conditions. If sold in a declining market, the price you receive may be less than your original investment. Unlike bonds and stocks, precious metals do not make interest or dividend payments. Therefore, precious metals may not be suitable for investors who require current income. Precious metals are commodities that should be safely stored, which may impose additional costs on the investor. The Securities Investor Protection Corporation ("SIPC") provides certain protection for customers' cash and securities in the event of a brokerage firm's bankruptcy, other financial difficulties, or if customers' assets are missing. SIPC insurance does not apply to precious metals or other commodities.

Bonds are subject to interest rate risk. When interest rates rise, bond prices fall; generally the longer a bond's maturity, the more sensitive it is to this risk. Bonds may also be subject to call risk, which is the risk that the issuer will redeem the debt at its option, fully or partially, before the scheduled maturity date. The market value of debt instruments may fluctuate, and proceeds from sales prior to maturity may be more or less than the amount originally invested or the maturity value due to changes in market conditions or changes in the credit quality of the issuer. Bonds are subject to the credit risk of the issuer. This is the risk that the issuer might be unable to make interest and/or principal payments on a timely basis. Bonds are also subject to reinvestment risk, which is the risk that principal and/or interest payments from a given investment may be reinvested at a lower interest rate.

Bonds rated below investment grade may have speculative characteristics and present significant risks beyond those of other securities, including greater credit risk and price volatility in the secondary market. Investors should be careful to consider these risks alongside their individual circumstances, objectives and risk tolerance before investing in high-yield bonds. High yield bonds should comprise only a limited portion of a balanced portfolio.

Interest on municipal bonds is generally exempt from federal income tax; however, some bonds may be subject to the alternative minimum tax (AMT). Typically, state tax-exemption applies if securities are issued within one's state of residence and, if applicable, local tax-exemption applies if securities are issued within one's city of residence.

Treasury Inflation Protection Securities' (TIPS) coupon payments and underlying principal are automatically increased to compensate for inflation by tracking the consumer price index (CPI). While the real rate of return is guaranteed, TIPS tend to offer a low return. Because the return of TIPS is linked to inflation, TIPS may significantly underperform versus conventional U.S. Treasuries in times of low inflation.

Ultrashort bond funds Ultra-short bond funds are mutual funds and exchange-traded funds that generally invest in fixed income securities with very short maturities, typically less than one year. They are not money market funds. While money market funds attempt to maintain a stable net asset value, an ultra-short bond fund's net asset value will fluctuate, which may result in the loss of the principal amount invested. They are therefore subject to the risks associated with debt securities such as credit and interest rate risk.

Ultrashort-term fixed income asset class is comprised of fixed income securities with high quality, very short maturities. They are therefore subject to the risks associated with debt securities such as credit and interest rate risk

The majority of \$25 and \$1000 par **preferred securities** are "callable" meaning that the issuer may retire the securities at specific prices and dates prior to maturity. Interest/dividend payments on certain preferred issues may be deferred by the issuer for periods of up to 5 to 10 years, depending on the particular issue. The investor would still have income tax liability even though payments would not have been received. Price quoted is per \$25 or \$1,000 share, unless otherwise specified. Current yield is calculated by multiplying the coupon by par value divided by the market price.

The initial interest rate on a **floating-rate security** may be lower than that of a fixed-rate security of the same maturity because investors expect to receive additional income due to future increases in the floating security's underlying reference rate. The reference rate could be an index or an interest rate. However, there can be no assurance that the reference rate will increase. Some floating-rate securities may be subject to call risk.

The market value of **convertible bonds** and the underlying common stock(s) will fluctuate and after purchase may be worth more or less than original cost. If sold prior to maturity, investors may receive more or less than their original purchase price or maturity value, depending on market conditions. Callable bonds may be redeemed by the issuer prior to maturity. Additional call features may exist that could affect yield.

Some \$25 or \$1000 par **preferred securities** are QDI (Qualified Dividend Income) eligible. Information on QDI eligibility is obtained from third party sources. The dividend income on QDI eligible preferreds qualifies for a reduced tax rate. Many traditional 'dividend paying' perpetual preferred securities (traditional preferreds with no maturity date) are QDI eligible. In order to qualify for the preferential tax treatment all qualifying preferred securities must be held by investors for a minimum period – 91 days during a 180 day window period, beginning 90 days before the ex-dividend date.

Principal is returned on a monthly basis over the life of a **mortgage-backed security**. Principal prepayment can significantly affect the monthly income stream and the maturity of any type of MBS, including standard MBS, CMOs and Lottery Bonds. Yields and average lives are estimated based on prepayment assumptions and are subject to change based on actual prepayment of the mortgages in the underlying pools. The level of predictability of an MBS/CMO's average life, and its market price, depends on the type of MBS/CMO class purchased and interest rate movements. In general, as interest rates fall, prepayment speeds are likely to increase, thus shortening the MBS/CMO's average life and likely causing its market price to rise. Conversely, as interest rates rise, prepayment speeds are likely to decrease, thus lengthening average life and likely causing the MBS/CMO's market price to fall. Some MBS/CMOs may have "original issue discount" (OID). OID occurs if the MBS/CMO's original issue price is below its stated redemption price at maturity, and results in "imputed interest" that must be reported annually for tax purposes, resulting in a tax liability even though interest was not received. Investors are urged to consult their tax advisors for more information.

THE GIC WEEKLY

Asset-backed securities generally decrease in value as a result of interest rate increases, but may benefit less than other fixed-income securities from declining interest rates, principally because of prepayments.

Yields are subject to change with economic conditions. Yield is only one factor that should be considered when making an investment decision.

Equity securities may fluctuate in response to news on companies, industries, market conditions and general economic environment.

Companies paying **dividends** can reduce or cut payouts at any time.

Investing in smaller companies involves greater risks not associated with investing in more established companies, such as business risk, significant stock price fluctuations and illiquidity.

Stocks of medium-sized companies entail special risks, such as limited product lines, markets, and financial resources, and greater market volatility than securities of larger, more-established companies.

Value investing does not guarantee a profit or eliminate risk. Not all companies whose stocks are considered to be value stocks are able to turn their business around or successfully employ corrective strategies which would result in stock prices that do not rise as initially expected.

Growth investing does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations.

Asset allocation and diversification do not assure a profit or protect against loss in declining financial markets.

Credit ratings are subject to change.

REITs investing risks are similar to those associated with direct investments in real estate: property value fluctuations, lack of liquidity, limited diversification and sensitivity to economic factors such as interest rate changes and market recessions.

Because of their narrow focus, **sector investments** tend to be more volatile than investments that diversify across many sectors and companies.

Technology stocks may be especially volatile. Risks applicable to companies in the **energy and natural resources** sectors include commodity pricing risk, supply and demand risk, depletion risk and exploration risk.

Rebalancing does not protect against a loss in declining financial markets. There may be a potential tax implication with a rebalancing strategy. Investors should consult with their tax advisor before implementing such a strategy.

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THE GIC WEEKLY

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