GLOBAL INVESTMENT COMMITTEE FEB. 19, 2019

The GIC Weekly



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Upcoming Catalysts

Feb. 19 Euro Zone ZEW Economic Sentiment

Feb. 20 Japan All Industry Activity Index

Feb. 20 Japan Manufacturing PMI

Feb. 21 Philadelphia Fed Survey

Feb. 21 US initial jobless claims

Feb. 21 US durable goods orders Feb. 21 Markit US Composite PMI

Feb. 21 Markit US Manufacturing PMI

Feb. 21 Euro Zone Markit Composite PMI

Feb. 21 Euro Zone Markit Manufacturing PMI

Feb. 21 Japan core CPI

Feb. 22 Euro Zone CPI

What We Are Talking About

Waiting on Europe. For the past year, European equities have frustrated investors; negative economic surprises and political uncertainty have weighed on both performance and sentiment while the region has been collateral damage to the US/China trade dispute; plummeting interest rates and a weaker currency have yet to help, leading to talk of recession; political and policy risks remain, but we believe that valuations are fair, modest economic growth forecasts look achievable, corporate earnings revisions appear to be stabilizing, exports to China look ready to rebound and wage growth is solid; monetary policy remains dovish and the potential for fiscal stimulus remains high; from here, European equities should outpace US equities. Consider maintaining European stock exposure with a barbell approach of early-cycle sectors such as autos, transports and materials with valuation support along with growthoriented consumer discretionary companies that should benefit from lower-for-longer interest rates.

Waiting on Europe

One of the most persistent narratives of the past decade has been US stocks outperforming the rest of the world. One of the most dramatic examples of that is how US equities fared relative to Europe. From March 2009 through Feb. 15, the S&P 500 Index gained more than 300% while the Euro STOXX 600 Index logged just 160%.

Why has Europe been such a laggard? At its core, the Euro Zone has been plagued by slow growth. Little progress on fiscal and political integration has left the EU vulnerable to volatile, populist and nationalistic politics and structural threats like Brexit and France's "yellow vest" protests. The European Central Bank (ECB) has tried to follow the Fed's Quantitative Easing (QE) playbook to pump up the economy, but the sheer complexity of navigating policy while sovereign debt markets are still priced for national budget dynamics has left them less effective and with fewer degrees of freedom. While we acknowledge the risks to the long-run sustainability of the current Euro Zone model,

we have continued to see tactical and cyclical opportunities.

Last year was such a time. At the start of 2018, the Global Investment Committee (GIC) increased its asset allocation to Europe on the premise that its dependence on global exports—48% of GDP, twice the level of China and three times that of the US—would make it a beneficiary of the global synchronous recovery we forecast. Unfortunately, that thesis proved vulnerable to a strong US dollar, which wreaked havoc with emerging markets growth, and to escalating trade tensions emanating from Washington, which exacerbated the local tensions and challenged the political stability of Italy and France, to say nothing of the stalemated Brexit. By midyear, when China's economy started to slow, Germany's auto industry was contracting due to new emissions standards and threats of new US tariffs. All told, GDP growth, at a healthy 2.8% annualized pace in 2018's first quarter, fell to 1.2% by the fourth quarter.

This year, growth data has continued to deteriorate. January PMI data indicates recession in Italy, and there has been no improvement in Germany, France or Spain. Graham Secker, Morgan Stanley & Co.'s European equity strategist, has noted that the IFO Business Climate Index versus current conditions is the worst since the 1970s and is at recession levels. Earnings revisions are pointing toward a corporate profits recession this year, with year-over-year earnings per share shrinking by 1%. For its part, the bellwether 10-year German Bund yield has plummeted, falling nearly 66 basis points from its fourth-quarter 2018 level to a mere 10 basis points today; short-term real rates are thus negative. The implications of this bad news has been extremely low valuations in such early-cycle sectors such as financials, materials, autos and transports where dividend yields range between 4% and 6%. Market technicals like sentiment and positioning are awful, and hedge funds' net long exposure to Europe is in the 20th percentile. Still, against this backdrop, the MSCI Europe Index joined the global rebound, and European stocks are currently up 8% for the year to date. While it is tempting to take profits now, the GIC believes that investors should remain in the region.

For starters, economic growth may be within a quarter of troughing and surprises may be poised to turn upward now that expectations have become so washed out (*Chart of the Week*, see page 3). In Germany, a bottom may be forming for autorelated manufacturing, with factory orders up 4% in January, the best reading in eight months. Should China's recovery take hold and reignite trade, the weaker euro should be a tailwind for exports. Consumption should also get a boost as real wage growth rebounds. Last year, the lagged effects of higher oil prices and a weak euro caused consumer price inflation to top

out at 2.2% in October. Lower oil prices in the second half of 2018 should now feed through to an inflation forecast of 1.1% by midyear, which should boost consumers' purchasing power.

A second set of positives comes from the policy arena, which often gets drowned out by political headlines. On monetary matters, the ECB remains loose with QE as bond proceeds are still being reinvested and sovereign debt remains bid by the central bank. On the fiscal side, politicians are attempting to address populist concerns. In both France and Italy, budget deficit guidelines look likely to be breached as President Emmanuel Macron pursues income support proposals. Also on the fiscal front, Italy is moving toward a universal basic income, Spain is boosting the minimum wage 22% and Germany is implementing tax reforms that include higher allowances for pension savings and childcare.

Finally, as always seems the case, politics remains the biggest wild card. Events that could interrupt a midyear rebound are formidable, but for the most part we see risks as asymmetric with the market already skeptical and any positive news of "muddle through" being rewarded by investors. The upcoming resumption of auto tariff talks with the US could take a negative turn especially if Washington feels emboldened about progress with China but more likely will be met with a "kick the can down road" solution of ongoing negotiations. The end of March could bring a no deal, or "hard," Brexit. However, in our view, this is more likely to be resolved with some more palatable way that stabilizes the UK economy. Lastly, European Parliament elections set for May could result in a higher portion of Euro skeptics winning seats. More likely, the EU will remain highly fractured around centrist leadership-including the so-called "green parties"—who are committed to economic union.

Bottom Line: Terrible sentiment, shallow positioning and reasonable valuations suggest that investors are already anticipating a recession and political headwinds in Europe this year. While we acknowledge the many obstacles to sustained investment returns, we believe that low expectations set up the potential for positive surprises, especially as the odds are decent that China's growth rebounds, real wage gains support local consumption, and monetary and fiscal policies remain expansionary. Even a "muddle through" outcome can produce double-digit gains from here. Watch for a growth rebound in China and an easing of auto tariff tensions, which should signal higher earnings multiples. Consider maintaining European stock exposure with a barbell approach of early-cycle sectors such as autos, transports and materials with valuation support along with growth-oriented consumer discretionary companies that should benefit from lower-for-longer interest rates.

Chart of the Week: Economic Disappointments in Europe May Be Ending

Europe's economy started 2018 on a solid footing, but poor weather, geopolitics and trade stress led to data disappointment (see chart). Things got better by midyear, but then a collapse in China exports and angst around Brexit, Italian budget woes and protests in France turned surprises negative toward the end of the year. In contrast, US economic surprises remained range bound. Now, while Europe's macro data has yet to turn upward, it is no longer driving negative economic surprises. This stabilization in the gap between expectations and reality has helped European equities keep pace with the global rebound in stocks for the year to date. It also sets up the potential for the underowned market to attract renewed interest on better-than-expected news.

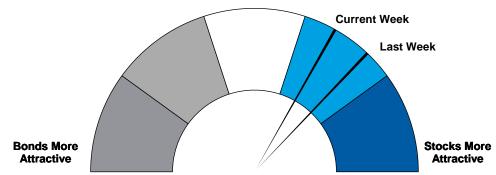


Source: Bloomberg as of Feb. 14, 2019

Asset Class Performance and Heat Map (as of Feb. 15, 2019)

Asset Class		A	nnuali	zed Re	turns (°	%)		Yield	Valu	ation	Volatil	ity (%)	Correla Global E	
Cash	YTD	1-Yr.		3-Yr.¹	5-Yr. ¹	10-Yr. ¹	20-Yr. ¹	Current YTM	Current YTM	Avg. YTM²	30 Days	20 Yrs. ¹	30 Days	20 Yrs. ¹
90-Day US Treasury Bills	0.3	2.0	1.9	1.0	0.6	0.4	1.8	2.42	2.42	1.79	0.08	0.55	-0.30	-0.05
Global Equities								Current Div. Yld.	Current P/E	Avg. P/E²				
US Large-Cap Growth	12.0	5.3	-0.9	11.2	10.8	15.3	4.6	1.06	21.1	20.9	15.5	17.0	0.91	0.89
US Large-Cap Value	9.6	2.6	-6.5	7.8	6.7	10.8	5.6	3.14	13.3	13.8	9.0	13.9	0.87	0.88
US Mid-Cap Growth	16.2	3.6	-7.9	6.1	6.0	14.4	6.5	0.66	21.0	26.5	12.6	22.7	0.92	0.81
US Mid-Cap Value	12.7	-0.5	-11.4	7.9	6.4	13.4	8.7	2.93	13.8	14.4	9.1	16.1	0.90	0.88
US Small-Cap Growth	17.6	8.1	-6.6	9.5	6.3	15.1	9.3	0.61	27.2	24.0	13.8	21.4	0.90	0.83
US Small-Cap Value	15.9	2.3	-13.3	6.7	4.8	12.9	8.8	2.76	15.9	17.2	10.4	17.3	0.85	0.84
Europe Equity	7.8	-8.1	-14.3	2.7	0.0	6.8	3.7	3.81	13.1	13.9	11.8	17.9	0.83	0.94
Japan Equity	4.9	-9.2	-12.6	3.8	3.4	5.6	3.1	2.45	12.1	19.3	12.6	16.4	0.52	0.70
Asia Pacific ex Japan Equity	8.6	-2.0	-10.2	6.9	2.2	10.0	8.6	4.00	14.8	14.5	11.0	19.7	0.71	0.88
Emerging Markets	6.8	-11.8	-14.2	9.7	2.0	8.4	8.8	2.76	11.7	11.3	11.5	21.9	0.82	0.87
Global Fixed Income								Current YTM	Current Spread	Avg. Spread ²				
Short-Term Fixed Income	0.4	2.4	1.6	1.2	1.0	1.5	3.1	2.70	17.0	31.0	0.9	1.4	-0.27	-0.14
US Fixed Income	1.1	3.4	0.0	2.1	2.5	3.5	4.5	3.19	47.0	54.0	2.4	3.4	-0.21	-0.03
International Fixed Income	0.5	-4.1	-1.9	3.1	0.3	2.0	3.3	1.19	54.0	49.0	4.0	7.9	0.07	0.32
Inflation-Protected Securities	2.0	-2.6	-4.2	3.6	1.3	3.9	5.3	-	-	-	4.8	7.7	0.11	0.45
High Yield	4.7	0.7	-4.1	6.6	3.3	11.1	7.8	6.78	440.0	499.0	3.5	9.5	0.77	0.75
Emerging Markets Fixed. Inc.	3.4	-7.0	-6.2	5.9	-1.0	3.5	7.7	6.29	282.0	332.5	7.2	11.6	0.44	0.66
Alternative Investments								Current Div. Yld.						
Real Estate/REITs	10.7	9.5	-5.5	4.4	5.4	10.4	8.6	3.96	-	-	7.9	17.9	0.56	0.80
MLP/Energy Infrastructure ³	15.3	-0.4	-12.4	-1.1	-7.3	9.6	-	7.52	-	-	20.0	18.8	0.73	0.58
Commodities ex Prec. Metals	6.5	-6.7	-12.5	-0.7	-10.3	-5.0	8.0	-	-	-	13.4	16.8	0.72	0.46
Precious Metals	2.6	-4.0	-4.6	5.1	-0.9	3.1	6.8	-	-	-	8.0	19.1	0.07	0.18
Hedged Strategies⁴	2.4	-5.7	-6.7	0.4	-0.6	1.5	-	-	-	-	-	6.0	-	0.64
Managed Futures ⁵	-1.8	-5.8	-3.2	-1.3	-0.1	-1.9	-	-	-	-	-	7.8	-	0.18
S&P 500	11.0	3.7	-4.4	9.3	8.5	13.1	5.6	1.91	16.2	15.8	11.35	14.5	0.94	0.95
Russell 2000	16.5	3.5	-11.0	7.4	4.4	12.0	7.4	1.30	25.9	20.3	12.48	19.6	0.89	0.82
MSCI EAFE	7.2	-7.6	-13.4	3.4	1.0	6.8	4.0	3.49	13.0	14.7	10.13	16.3	0.87	0.96
MSCI AC World	9.6	-2.0	-8.9	7.2	4.8	10.0	5.0	2.61	14.5	15.3	9.93	15.3	1.00	1.00
Note: Performance values calculated using USD. 1. As of Jan. 31, 2019. 2. 20-year average as of Jan. 31, 2019. 3. Volatility and Correlation: June 30, 2006 – Present. 4. Volatility and Correlation: Jan 31,							Che	еар	Lo	w	Lo	w		
1998 – Present Hedged strategies cor Correlation: February 28, 1998 – Pres Between +0.5 standard deviation and	ent. Che	ap = Be	low -0.5	standa	rd devi	ation; Mo	oderate:	=	Mod	erate	Hiç	gh	Hig	jh
Standard deviation (volatility) is a mea Source: Factset, Bloomberg, Morgan	sure of the	he dispe	ersion of	a set c	of data f				Expe	nsive				

Short-Term Stock and Bond Indicator



		Macro Growth Inflation		Pol	icy	Fundamenta	als	Sentiment and Technicals		
				Rates Liquidity		Valuation & Market	Earnings	Sentiment	Technicals	
	Current	Very Negative	Neutral	Very Positive	Neutral	Neutral	Neutral	Neutral	Very Positive	
I	Last Week	Neutral	Neutral	Very Positive	Neutral	Neutral	Neutral	Neutral	Very Positive	

Indicator	Category	Reading		
PMI (+)		Risk Off		
Durable Goods (+)	Growth	Neutral		
Retail Sales (+)	Glowiii	Neutral		
Manufacturing Hours Worked (+)		Risk Off		
Commodity Prices (+)	Inflation	Neutral		
Yield Curve: 10-Yr./Three-Mo.(-)		Risk On		
Yield Curve: Two-Yr./Three-Mo.(-)	Rates	Risk On		
Pace of Interest Rate Hikes (-)	Nates	Risk On		
Term Premium Model (-)		Risk Off		
High Yield Spreads (-)		Neutral		
Investment Grade Spreads (-)	Liquidity	Neutral		
Financial Conditions (-)		Neutral		
S&P 500 Earnings/Baa Yield (+)		Neutral		
Large vs. Small Performance (-)		Risk On		
High- vs. Low-Quality Performance (-)	Valuation & Market Behavior	Neutral		
High- vs. Low-Beta Performance (+)		Neutral		
S&P 500 Forward Price/Earnings Ratio (+)		Risk On		
Earnings Revisions Breadth (-)	Earnings	Neutral		
Global Risk Demand (+)		Risk On		
Implied Currency Volatility (-)	Sentiment	Neutral		
Five-Yr. Macro Sensitivity (-)		Risk Off		
% Stocks Above 200-Day Moving Avg. (+)		Risk On		
Cumulative Advance/Decline (+)		Risk On		
S&P 500 Put/Call Ratio (-)	Technicals	Risk On		
Emerging Market Fund Flows (+)		Neutral		
Smart Money Flow Index (+)		Risk On		
Note: + Indicates that a rise in the indicator is linked to a more favo	rable outlook for risk assets:	Positive for Stocks Relative to Bonds		
- indicates that a rise in the indicator is linked to a less favorable out		Neutral		
set in accordance with the impact on risk assets.		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 Feb. 15, 2019

Fixed Income Insight: Record US Treasury/German Bund Spread Hurts the Euro

One of the more persistent themes of the last six months has been the range-bound US dollar. On the one hand, the dollar has failed to strengthen despite relative hawkish monetary policy and rising US government deficits; on the other hand, the US dollar has failed to weaken on persistent fears about trade tensions with China. This has meant that even though the 10-year US Treasury yield remains at a record wide spread versus the comparable 10-year German Bund—down 66 basis points from a year ago—the Euro/US dollar exchange rate is unchanged from last summer (see chart). Should the European Central Bank clarify an even more dovish path or the Federal Reserve hike again in the second half of 2019, a weaker euro could turbocharge a recovery in European exports.

10-Yr. US Treasury/German Bund Spread (left axis) Euro/US Dollar Exchange Rate (right axis)



Source: Bloomberg as of Feb. 14, 2019

Government Debt Monitor

	US			
	Y	Total Return (%)		
Treasury Benchmark	Current	ΔWTD	ΔYTD	YTD
3-Month	2.42	0.01	0.06	0.30
2-Year	2.51	0.05	0.03	0.27
5-Year	2.49	0.05	-0.02	0.37
10-Year	2.66	0.03	-0.02	0.55
30-Year	2.99	0.01	-0.02	0.98
2-Yr./10-Yr. Spread (bp)	15	-2.04	-4.79	-
10-Yr. TIPS Breakeven (bp)	187	3.74	15.11	-
Interest Rate Volatility† (bp)	46	-3.90	-20.85	-

Fixed Income Spread Dashboard

		Duration	Yield-to-	OAS	OAS Range**	
		(Yrs.)	Worst (%)	(bp)	Rich CI	heap
de	MBS*	5.62	3.34	37	18	9
Grade	AAA	5.87	2.92	17	11 18	8
ent	AA	6.08	3.22	60	46	6
Investment	Α	7.35	3.59	93	68	22
ş	BBB	7.54	4.32	165	111	01
eld	BB	4.26	5.14	241	187	65
High Yield	В	3.77	6.75	402	299	42
Hig	ccc	3.56	10.79	813	512 99	97

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

Government Debt Monitor

Benchmark Returns

		Global							
		Yield (%)		Total Return (%)*		Total Returns (%)			
10-Year Govt. Bond	Current	ΔWTD	ΔYTD	YTD	Index	YTD	MTD	2018	
France	0.54	0.00	-0.17	1.80	Bloomberg Barclays US Aggregate	1.10	0.04	0.01	
Germany	0.10	0.02	-0.14	1.77	Bloomberg Barclays US MBS	0.68	-0.12	0.99	
Japan	-0.03	0.01	-0.02	0.65	Bloomberg Barclays US IG Corporate	2.65	0.29	-2.51	
Spain	1.24	0.00	-0.18	1.89	Bloomberg Barclays Municipal	1.05	0.29	1.28	
UK	1.16	0.01	-0.12	1.19	Bloomberg Barclays US High Yield	5.41	0.86	-2.08	
3-Month LIBOR	2.69	0.00	-0.11	-	Bloomberg Barclays Global Aggregate	0.68	-0.83	-1.20	
	US T	ax Exemp	t		JPMorgan Emerging Market	4.41	-0.01	-4.61	
10-Year AAA Muni	2.16	0.00	-0.15	1.05					
10-Yr. Muni/UST Ratio	81.24	-0.81	-5.08	-					

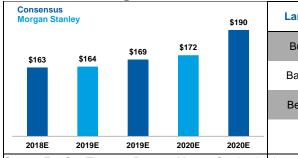
*Global total returns reflect Citigroup 7- to 10-year bond indexes and Muni total returns reflect Bloomberg Barclays Municipal Bond Index Total Return Source: Bloomberg, Thomson Reuters Municipal Market Data (MMD) as of Feb. 15, 2019

[†]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 Feb. 15, 2019

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



Price/Earnings Upside / Landscape **Earnings Price Target** Multiple **Downside Bull Case** \$180 16.5 3,000 8.1% Base Case \$172 16.0 2,750 -0.9% Bear Case \$158 15.0 2,400 -13.5% Current S&P 500 Price 2,776

Source: FactSet, Thomson Reuters, Morgan Stanley & Co. Research as of Feb. 15, 2019

Note: 2019 price targets are based on estimated 2020 earnings. Source: Thomson Reuters, Morgan Stanley & Co. Research as of Feb. 15, 2019

S&P 500 Sector Performance and Valuation (as of Feb. 15, 2019)

Inday Name	•	Total Retur	n	Dividend	Data	20-Year Avg.	Forward 12-Mo.
Index Name	WTD (%)	YTD (%)	1-Year (%)	Yield (%)	Beta	Forward 12-Mo. PE	P/E*
S&P 500	2.67	11.02	9.79	1.94		15.8	15.8
Energy	1.97	15.39	2.19	3.25	0.95	17.4	17.2
Materials	1.81	7.89	-3.13	2.06	0.97	13.9	15.0
Industrials	5.27	17.53	5.72	2.02	1.03	16.1	15.1
Consumer Discretionary	2.28	10.81	9.99	1.30	1.12	18.0	19.6
Consumer Staples	2.28	7.30	4.49	2.96	0.53	16.8	17.7
Health Care	2.28	7.48	16.82	1.65	0.92	16.7	15.4
Financials	1.36	10.98	-0.79	1.99	0.96	12.7	11.3
Information Technology	4.40	12.34	15.04	1.54	1.34	20.4	17.1
Telecommunication Services	0.69	10.75	3.81	1.47	0.87	16.0	17.1
Utilities	2.10	5.28	21.47	3.25	0.24	14.3	17.8
Real Estate	2.60	12.91	23.71	3.10	0.51	15.3	18.5

*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 Feb. 15, 2019)



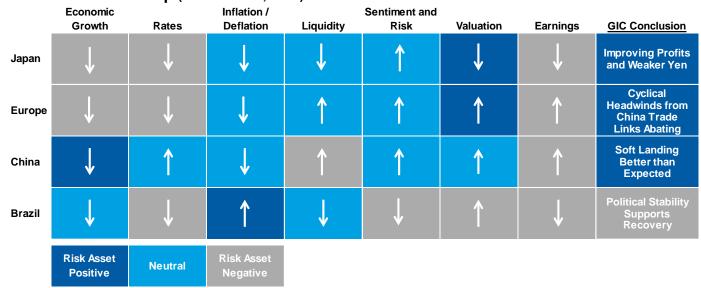
Source: Morgan Stanley & Co. Small Cap is represented by the Russell 2000 Index; Large Cap represented by the Russell 1000 Index; Growth represented by the Russell 1000 Growth Index; Value represented by the Russell 1000 Value Index. Cyclicals and Defensives, and Quality and Junk are based on Morgan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

Morgan Stanley & Co. Forecasts (as of Feb. 15, 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			2.8	2.7	2.9		-	
US	2.9	2.3	1.9	2.55	2.45	2.4	1.8	2.6			
Euro Zone	1.9	1.6	1.5			1.7	1.4	1.7	1.14	1.22	1.27
UK	1.2	1.2	1.5	1.55	1.65	2.5	2.0	2.0	1.32	1.47	1.54
Japan	0.7	1.2	0.6	0.20	0.18	1.0	0.0	0.6	109	104	100
Emerging Markets	4.8	4.7	4.8			3.4	3.6	3.5			
China	6.6	6.3	6.1			2.1	2.4	2.2	6.71	6.57	6.50

Source: Morgan Stanley & Co. Research

Macro Factor Heat Map (as of Feb. 15, 2019)



Note: Text in a factor box denotes a color change; for further explanation of the chart, see page 9.

Source: Morgan Stanley Wealth Management GIC

Market Factor Data Points (for the week ending Feb. 15, 2019)

	Positives	Negatives
Global Growth	 Empire State Manufacturing Survey increased to 8.8 in February, beating forecast of 7.0 	Weekly initial jobless claims at 239,000 vs. 225,000 estimate
		 January US industrial production fell 0.6% month over month, missing forecast for 0.1% gain
		 US capacity utilization came in at 78.2% in January vs. 78.7% expected
		US retail sales declined 1.2% month over month in December vs.an expected increase of 0.1%
In flation	January US CPI came in 1.6% year over vs. 1.5% projected	 January US PPI below expectations at 2.0% year over year vs. estimate of 2.1%
Inflation		 Japan PPI disappointed in January at 0.6% year ove year vs. 1.0% forecast
Sentiment and Flows	February University of Michigan Consumer Sentiment Index at 95.5 beat 93.7 forecast	NFIB Small Business Optimism Index fell to 101.2 in January, missing forecast of 103.0

Source: Morgan Stanley Wealth Management GIC

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 Feb. 15, 2019

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		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		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	Industrial production Unemployment Total return Earnings revisions Home prices OECD LEI (China and Brazil) MS & Co. ARIA (US)	10-year vs. 2-year government bond yield spread	• Consumer Price Index	M1 growth Private credit growth Libor-OIS spread	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	price/earnings ratio Price/book ratio Equity risk premium High yield option-adjusted	Earnings revisions breadth Earnings surprise Return on equity	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

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.

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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