Global Markets Outlook and Strategy

The Economy

World economy is rebounding from its Q1 sinkhole, but without payback, still below trend, and no faster than we had hoped. PMIs suggest upside into Q3, but they did so also in Q1, tempering our optimism. Central banks remain in no hurry to tighten.

Asset allocation

Our long-risk strategy remains based, not on strong growth, but instead on low growth, low vol, and low cash rates. Relative value has moved our credit OW to small, in favor of equities, commodity roll and EM. Macro momentum has shifted to EM as DM growth has been cut more. Greater macro risks on US growth and wage support being UW US equities, vs. EM, and FI vs. Euros.

Cross asset volatility

Maintain an overall short vol bias by selling 3-month straddles on CDX.HY. Open UK rate vol theme, buying front-end 2Y vs. 10Y gamma. Keep long GBP vs. EUR gamma but switch from the 5Y sector to greens. Take profit on Sep 14 USD/JPY put funded with a Nikkei put, and roll to 3M. Open long in Brent vs. Copper vol given geopolitical risk.

Fixed income

We retain our long-standing OW in Euro area duration vs. UK/US and OW Euro area periphery vs. core. Open 10Y US TIPS breakeven widener. Our systematic signals point to a long in 10Y Australia vs. Japan.

Credit

Spreads are close to pre-crisis lows, issuers are starting to lever up and credit is likely the more over-owned asset class. We have reduced our OW further from 5% to 2% vs. benchmark. Within credit, maintain focus on US HY and EM and now go long European HG financials vs. US HG.

Equities

Add to EM OW but focus the short leg on the US and Europe only. Recent price momentum in Japan and possible further policy action make a Japanese equity UW unattractive. Take profit on Euro area periphery and banks as valuations are no longer attractive and litigation risks remain high.

Currencies

We see dovishness at Swedish and Norwegian central banks and are short SEK vs. EUR and NOK vs. EUR and GBP. Also stay long EM FX.

Commodities

Upgrade commodities to OW on attractive carry, rebounding PMIs in China and supply risks in energy. Focus on energy for attractive roll and as a hedge to any supply disruption in the Middle East.

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Global Economic Outlook Summary

		leal GDP			0/	Real GDP % over previous period, saar					Consume	•	
	2013	ver a year ag 2014	o 2015	4Q13	1Q14	2Q14	3Q14	4Q14	1Q15	4Q13	% over a y	ear ago 4Q14	4Q15
	2010		20.0	.4.0		-4	04. 1		14.0	.4.0			
United States	1.9	1.5 ↓	2.9	2.6	-2.9 ↓	3.0	3.0	3.0	3.0	1.2	2.1 ↑	2.4 ↑	1.9
Canada	2.0	2.2	2.6	2.7	1.2	2.2	2.5	2.7	2.8	0.9	2.4 ↑	2.3 ↑	2.4 ′
Latin America	2.5	1.6 ↓	2.9	1.5	<u>0.5</u> ↑	1.4 ↓	2.1	2.8 ↓	3.1	4.5	5.0 ↓	5.1 ↓	4.7
Argentina	2.9 ↓	-1.5	3.0	-1.8 ↓	-3.2 ↑	-0.8	-4.6	-1.4	4.0	10.7	34.0	40.0	45.0
Brazil	2.5	1.1 ↓	1.8	1.8	0.7	<u>0.3</u> ↓	1.6 ↑	2.7	2.2	5.8	6.3 ↓	6.3 ↓	6.3
Chile	4.1	2.5 ↓	3.5 ↓	-0.4	3.0	<u>1.7</u> ↓	4.0 ↓	2.8 ↓	3.2 ↓	2.5	4.5	4.3	3.0
Colombia	4.7 ↑	5.0 ↑	4.5	3.5 ↑	9.9 ↑	<u>2.0</u> ↓	4.0 ↓	4.0 ↓	5.0 ↑	1.8	2.8 ↑	3.2 ↑	3.0
Ecuador	4.5	3.3	4.0	4.7	2.0	1.5	2.0	2.5	3.5	2.3	2.0	3.2	4.0
Mexico	1.1	2.9	3.8	0.5	1.1	<u>4.0</u>	3.9	3.7	3.6	3.7	3.7	4.1	3.1
Peru	5.8	4.2 ↓	5.5	6.9	0.3	<u>3.5</u> ↓	6.0 ↓	7.0	5.5	3.0	3.2	3.0	2.5
Venezuela	1.3	-1.0	2.5	2.3	<u>-8.5</u>	0.0	2.5	2.0	2.5	52.9	57.2	58.2	35.0
Asia/Pacific	4.6	4.6 ↑	4.8 ↑	4.5	5.3 ↑	<u>2.7</u> ↑	5.0 ↑	5.0	4.8	3.2	3.3	2.9	3.3
Japan	1.5 ↓	1.5 ↑	1.5 ↑	0.3	6.7 ↑	<u>-4.5</u> ↑	2.0	2.0	2.0 ↑	1.4	3.8	3.1	2.5
Australia	2.4	3.0 ↓			4.5	0.4 ↓	3.1 ↑	4.3 ↑	2.9 ↑	2.7	2.9	2.0	2.6
New Zealand	2.8 ↑	3.2 ↑		4.1 ↑	4.0 ↑	0.8	1.9	4.7	4.8	1.6	1.8 ↓	1.6 ↓	2.0
EM Asia	6.2	6.1	6.4	6.4	4.8	<u>6.0</u> ↑	6.5	6.4	6.2 ↓	4.0	3.1	2.9	3.7
China	7.7	7.2	7.2	7.6	5.9	<u>7.2</u> ↑	7.6	7.4	7.1 ↓	2.9	1.9	1.7	3.1
India	4.7	5.3	6.5	4.2	5.0	<u>5.3</u>	5.5	6.0	6.3	10.6	8.6	8.6	7.0
EM Asia ex China/India	4.0	4.0	4.6	5.1	2.3	3.9 ↓	4.7 ↑	4.6 ↑	4.4	3.3	3.2	3.0	3.5
Hong Kong	2.9	2.8	2.6	3.6	0.8	3.0	4.2	4.2	2.0	4.3	3.6	3.4	3.5
Indonesia	5.8	4.9	5.7	6.0	4.1	5.0	5.0	4.5	5.3	8.4	6.2	4.6	4.6
Korea	3.0	3.8 ↓	4.0 ↑	3.6	3.8	2.6 ↓	4.7 ↑	4.0 ↑	4.0	1.1	1.5	2.3	2.9
Malaysia	4.7	5.5	5.1	7.6	3.3	3.8	5.5	5.5	5.0	3.0	3.3	3.5	5.2
Philippines	7.2	6.0	6.4	6.1	4.9	7.8	5.7	5.7	6.6	3.5	4.0	3.6	3.8
Singapore	3.9	4.4 ↓	5.0	6.9	2.3	4.5 ↑	4.9	6.6	4.9	2.0	3.0	2.3	2.3
Taiwan	2.1	3.5	3.8	7.6	1.9	3.5	4.0	4.2	3.8	0.6	1.2	1.6	1.9
Thailand	2.9	1.1	4.2	0.5	-8.2	3.5	4.0	4.0	4.2	1.7	2.6	2.9	3.8
Western Europe	0.1	1.6	2.2	1.5	1.1	2.0	2.1	2.2	2.2	1.0	0.7 ↓	0.9 ↓	1.3
Euro area	-0.4	1.2	2.0	1.0	0.7	<u>2.0</u> 1.8	2.0	2.0	2.0	0.8	0.5 ↓	0.7 ↓	1.1
Germany	0.5	2.3	2.3	1.5	3.3	2.0	2.5	2.5	2.3	1.3	0.8 ↓	0.8 ↓	1.6
France	0.4	0.8	1.8	0.7	0.1	1.0	1.5	1.5	2.0	0.8	0.8 ↓	0.7 ↓	1.1
Italy	-1.8	0.4 ↑		0.5 ↑	-0.5	1.5	1.5	1.5	1.5	0.7	0.4 ↓	0.5 ↓	1.0
Spain	-1.2	1.2	2.0	0.7	1.5	1.5	2.0	2.0	2.0	0.7	0.4 0.2	0.0 ↓	0.0
Norway	2.0	1.9	2.3	2.0	1.9	2.0	1.9	2.1	2.3	2.3	1.9	1.7	2.2
Sweden	1.6	2.2	2.5	6.5	-0.3	2.3	2.5	2.5	2.5	0.1	-0.1	0.4	1.5
United Kingdom	1.7	3.0	3.0	2.6 ↓	3.3	3.0	2.5	3.0	3.3	2.1	1.6 ↓	1.6 ↓	2.1
EMEA EM	2.0	1.8 ↑	2.7	3.2 ↑	0.6 ↑	0.7 ↓	2.4 ↓	2.3 ↓	2.9	5.1	5.7	5.1 ↓	4.2
Czech Republic	-0.9	2.8	2.8	6.1	3.2 ↑	<u>3.7</u> ↓	2.0	2.3	4.2	1.1	0.7	1.8	1.5
Hungary	1.1	3.0	2.5	2.7	4.5	2.3	2.0	2.5	3.0	0.7	0.0	1.0	2.7
Israel	3.4	3.3 ↓		3.2 ↑	2.7 ↑	3.3	3.6	4.5	3.2 ↓	1.9	1.0 ↓	1.3 ↓	1.9
Poland	1.6	3.2	3.2	2.8	4.5	2.0 ↓	3.0	3.5	3.5	0.7	-0.1 ↓	0.3 ↓	2.0
Romania	3.5	3.2	3.5	5.5 ↓	0.2 ↓	<u>2.0</u> ♥	2.0	1.6	4.5	1.8	1.3	3.6	3.4
Russia	1.3	0.5	3.5 1.8	2.6	-3.4	<u>3.0</u> -0.5	2.0	2.0	2.0	6.4	7.4	6.1	4.4
South Africa	1.9	1.8 ↓		3.8	-0.6	<u>-0.5</u> 0.9 ↓	4.5 ↓	3.8 ↓	2.0	5.4	6.5	6.3	5.4
Turkey	4.0	3.0 ↑		3.5 ↑	-0.0 7.0 ↑	0.9 ↓	1.2 ↓	0.8 ↓	4.1	7.5	9.1 ↑	8.1	6.3
Global	2.4	2.6 ↓	3.3	2.9	<u>1.4</u> ↓	2.3 ↓	3.4	3.4	3.4	2.3	2.6	2.6 ↑	2.6
Developed markets	1.2	1.6 ↓		1.9	0.5 ↓	1.4	2.5	2.6	2.6 ↑	1.2	1.8	1.9 ↑	1.8
Emerging markets	4.6	4.3	4.9	4.7	3.0 ↑	4.0 ↓	4.8	4.8 ↓	4.9 ↓	4.3	4.0	3.8	4.0

Note: For some emerging economies seasonally adjusted GDP data are estimated by J.P. Morgan.

Bold denotes changes from last edition of Global Markets Outlook and Strategy, with arrows showing the direction of changes. Underline indicates beginning of J.P. Morgan forecasts.

Source: J.P. Morgan

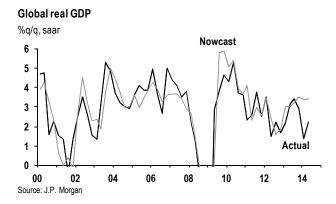
Economic Outlook

- The 1Q global growth sinkhole has deepened.
- Our global PMI and nowcaster are surging into midyear.
- Inflation is turning up, but recent moves overstate trend shift.
- Divergences emerge in EM monetary policy moves.

A disconnect in top-down and bottom-up

The dramatic downward revision of US 1Q14 real GDP growth to -2.9% (q/q, saar) deepens the early year growth dip. With the US delivering its weakest non-recessionary outcome in the post-World War II era, last quarter's global GDP gain of just 1.4% annualized is the lowest of the expansion. Incorporating this result into our forecasts sends a sobering message. At 1.5% and 2.6%, respectively, US and global growth for the year (4Q/4Q) are now projected to slow relative to last year to a pace that is below potential. Such an outcome would be bewildering given that the largest drags weighing on the global economy last year have been fading. Fiscal and deleveraging drags are waning across the developed economies, while financial conditions more broadly are improving as the volatility from last year's "taper tantrum" has subsided. At the same time, global monetary policy remains near the easiest it has been in the history of modern central banking.

Indeed, a global economy that is unable to expand above its potential under such conditions contrasts with the narrative we wove at the start of the year. The message from an important set of global data we track—industrial production, retail spending, labor markets, and surveys of business and consumers—also sends a contrasting signal. They pointed to global GDP accelerating in the second half of last year followed by some moderation at the start of this year. Specifically, these indicators correctly signaled two sources of disappointment: weak EM domestic demand and global inventory investment. However, from the perspective of our top-down indicators, the early year growth dip should have been mild and followed by a reacceleration into midyear. Indeed, our global nowcaster has tracked 1H14 global GDP growth at an above-trend 3.4% pace. While this contour was borne out in official data, the magnitude could not have been more different. The gap between this reading and our bottom-up GDP forecast at 1.8% marks a twostandard-deviation miss in our model and is the widest in the model's history back to 1998.



There are two possible explanations for this gap. One is that the dip in global growth has been unusually concentrated in sectors—services, construction, and government spending—that mostly lie outside of the global indicator flow. The sources of weakness in US growth provide only limited support for this view. While construction activity was very weak, services GDP expanded during 1Q. A second explanation relates to measurement error. The striking contrast in the US between the contraction in the demand for goods-producing industries—reflected in a large inventory drag and a decline in exports and spending on capital equipment—is hard to reconcile with the solid tone reflected in industrial production, durable shipments, the manufacturing surveys, and labor market data.

While there is no doubt that activity accelerated into midyear, the latest signs suggest the lift will still leave the global economy tracking light through 1H14. Even excluding the VAT-induced drop in Japan, neither our top-down nor bottom-up indicators point to a bounce that would reconcile 1H14 growth with our macro views.

If there is any comfort to be taken from this disquiet, it lies in the recognition that policymakers and markets are generally discounting the message from GDP reports. This is evident from the June FOMC meeting, where a 0.7% downward revision to the 2014 growth forecast received little attention. At the same time, that both the global manufacturing and services PMIs appear to have risen in June suggests global real GDP is accelerating to a boomy 4.2% annualized pace this month, as filtered through our nowcaster. How much weight to put on this following the huge negative errors in these trackers early this year is a key question, but for now we are taking them as encouraging signs of rebound from a first quarter we would like to forget.

An upside global inflation surprise

Our 2014 outlook anticipated that a three-year disinflationary trend would end and expected global inflation to rise about 0.5%-pt from its early year lows.

Consumer prices rose 2.6% oya in May according to our preliminary estimate, reaching our year-end target much faster than expected.

Global Asset Allocation

02 July 2014

The upturn in inflation is not due primarily to the VAT hike in Japan. Outside Japan global inflation also has climbed from 2.1% oya in February to 2.5% oya in May. And the surprise we are seeing does not appear to reflect commodity price movements, as retail energy and food inflation have evolved more or less in line with expectations. Oil prices have firmed over the past year, even before last week's jump, boosting retail gasoline inflation. Equally important, agricultural commodity prices have moved off their lows following a roughly 33% slide from mid-2012 to early 2014. With a short lag, this has begun to temper the sharp disinflationary pull from food prices.

It is the pickup in core inflation that has surprised us. The global economy expanded at a pace just above its trend over the past year. We would have expected this to produce stabilization or a slight rise in core inflation. Indeed, core inflation leveled off over the balance of the period, running 1.8% on a 12-month basis from May 2013 through early this year. However, this was followed by a significant increase in the past few months, with the core rate rising 0.3%-pt to 2.1%oya from February to May, or 0.2%-pt excluding Japan. The move up in core inflation is even more striking in sequential terms. Moreover, it is relatively broad-based outside of the Euro area, though with an especially strong contribution from the US.

To be sure, short-term movements in inflation can be volatile and the fundamentals do not support the rapid increase of the past few months. The global output gap is closing only slowly and there are scant signs of wage pressures, which are an important building block in the inflation process. With that said, the strength and geographic breadth of the recent move suggest firms are regaining some pricing power. This may reflect the fact that global manufacturing has been growing at an above-trend 4% pace for a full year now. Although the monthly rate of inflation is likely to cool, our hunch is that pricing power will continue to firm and that core inflation will track somewhat above our forecast, producing a further modest increase in the year-ago inflation rate during 2H14.

Asia less able to join axis of easing

In recent weeks, several EM central banks have eased monetary policy and others look to be getting ready to do so. Much of this is in response to softer growth, calm financial markets, and continued easy monetary conditions



in the developed world. The shift mostly has been seen across Latin America and in EMEA EM. Last week, Turkey's central bank surprised with a 75bp cut even as it creatively defined "tight monetary policy" as the maintenance of a flat yield curve. Assuming financial markets stay calm and the lira remains stable, we look for further CBRT easing.

In contrast to the easing bias in other parts of the EM, supply constraints and financial vulnerabilities in EM Asia are pushing central banks to either stay put or tighten policies. The PBOC is an exception. Officials are likely to keep to their annual credit target of 13% growth but with easier financial conditions allowing CNY to stay on the weak side longer and interbank rates soft to support exports and domestic demand. And although we look for across-theboard RRR cuts, this is mostly in response to the reduction in FX intervention. Similarly, the BoK is expected to remain on hold for the rest of 2014 despite soft growth and inflation even if some limited selective credit easing measures are possible.

Elsewhere in EM Asia, central banks are leaning toward a tightening bias in response to financial stability concerns and rising inflation pressures. We look for further rate hikes from the Philippines and the start of hikes from Malaysia in July. Although Indonesia's central bank is expected to stay on hold, the risks to the policy outlook are tilted to the upside should the current account deficit widen or the currency weaken materially. In Thailand (the only central bank in the region to have eased this year), policy has also shifted to a neutral stance given price pressures. Singapore's monetary authority has kept its currency on a modest appreciation path since April 2010 as upside risks to core inflation remain material. Similarly, upside inflation risks from a subpar monsoon will likely limit the Reserve Bank of India's patience as the government tries to implement its reform agenda, and so we still look for a hike by year-end.

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Central Bank Policy Rate Watch

	Official	Current	Chang	e since	(bp)	- Last change	Next meeting	Forecast		Foreca	st (%pa)	
	rate	rate (%pa)	05-07 avgT	rough¹	Jul 11	- Last Change	HEAL IIICELING	next change	Sep 14	Dec 14	Mar 15	Jun 15
Global		2.33	-200	54	-36				2.30	2.30	2.33	2.36
ex cluding US	;	3.10	-115	67	-38				3.05	3.05	3.09	3.13
Dev eloped		0.29	-320	0	-55				0.31	0.31	0.32	0.35
Emerging		6.02	-100	112	-25				6.07	6.07	6.13	6.15
Latin America	ı	7.41	-334	161	-161				7.44	7.43	7.85	7.98
EMEA EM		5.97	-26	200	164				6.22	6.09	5.89	5.79
EM Asia		5.59	-20	111	-38				5.60	5.64	5.66	5.68
The Americas		1.59	-349	50	-41				1.52	1.52	1.60	1.64
United States	Fed funds	0.125	-438	0	0	16 Dec 08 (-87.5bp)) 29 Jul 14	4Q 15 (+25bp)	0.125	0.125	0.125	0.125
Canada	O/N rate	1.00	-273	75	0	8 Sep 10 (+25bp)	16 Jul 14	2Q 15 (+25bp)	1.00	1.00	1.00	1.25
Brazil	SELIC O/N	11.00	-425	375	-150	2 Apr 14 (+25bp)	0.00	Jan 15 (+25bp)	11.00	11.00	11.75	12.00
Mexico	Repo rate	3.00	-487	0	-145	6 Jun 14 (-50bp)	11 Jul 14	4Q 15 (+25bp)	3.00	3.00	3.00	3.00
Chile	Disc rate	4.00	-69	350	-125	13 Mar 14 (-25bp)	15 Jul 14	3Q 14 (-25bp)	3.75	3.25	3.25	3.25
Colombia	Repo rate	4.00	-331	100	-50	20 Jun 14 (+25bp)	31 Jul 14	31 Jul 14 (+25bp)	4.75	5.00	5.00	5.00
Peru	Reference	4.00	-6	275	-25	7 Nov 13 (-25bp)	10 Jul 14	Jul 14 (-25bp)	3.50	3.50	4.00	4.00
Europe/Africa		1.54	-219	22	-41				1.47	1.44	1.43	1.44
Euro area	Refi rate	0.15	-283	0	-135	5 Jun 14 (-10bp)	3 Jul 14	3Q 18 (+10bp)	0.15	0.15	0.15	0.15
United Kingdom	Bank rate	0.50	-444	0	0	5 Mar 09 (-50bp)	10 Jul 14	1Q 15 (+25bp)	0.50	0.50	0.75	1.00
Norw ay	Dep rate	1.50	-169	25	-75	14 Mar 12 (-25bp)	18 Sep 14	On hold	1.50	1.50	1.50	1.50
Sweden	Repo rate	0.75	-181	50	-125	18 Dec 13 (-25bp)	3 Jul 14	3 Jul 14 (-25bp)	0.50	0.50	0.50	0.50
Czech Republic	2-wk repo	0.05	-235	0	-70	1 Nov 12 (-20bp)	31 Jul 14	On hold	0.05	0.05	0.05	0.05
Hungary	2-wk dep	2.30	-483	0	-370	24 Jun 14 (-10bp)	22 Jul 14	3Q 14 (-30bp)	2.00	2.00	2.00	2.00
Israel	Base rate	0.75	-350	25	-250	24 Feb 14 (-25bp)	28 Jul 14	1Q 15 (+25bp)	0.75	0.75	1.00	1.25
Poland	7-day interv	2.50	-202	0	-200	3 Jul 13 (-25bp)	2 Sep 14	Sep 14 (-50bp)	2.00	2.00	2.00	2.00
Romania	Base rate	3.50	-469	0	-275	4 Feb 14 (-25bp)	4 Aug 14	30 Sep 14 (-25bp)	3.25	3.00	2.75	2.75
Russia	Repo rate	7.50	N/A	N/A	N/A	25 Apr 14 (+50bp)	25 Jul 14	11 Dec 14 (-25bp)	7.50	7.25	6.75	6.50
South Africa	Repo rate	5.50	-279	50	0	29 Jan 14 (+50bp)	17 Jul 14	18 Sep 14 (+25bp)	5.75	5.75	6.25	6.50
Turkey	1-wk repo	8.75	N/A	N/A	N/A	24 Jun 14 (-75bp)	17 Jul 14	24 Jun 14 (-75bp)	8.00	8.00	8.00	8.00
Asia/Pacific		3.80	13	91	-32				3.81	3.84	3.85	3.87
Australia	Cash rate	2.50	-344	0	-225	6 Aug 13 (-25bp)	5 Aug 14	On hold	2.50	2.50	2.50	2.50
New Zealand	Cash rate	3.25	-413	75	75	12 Jun 14 (+25bp)	24 Jul 14	24 Jul 14 (+25bp)	3.50	3.75	4.00	4.25
Japan	O/N call rat	€ 0.05	-17	0	-2	5 Oct 10 (-5bp)	15 Jul 14	On hold	0.05	0.05	0.05	0.05
Hong Kong	Disc. wndw	0.50	-548	0	0	17 Dec 08 (-100bp)	30 Jul 14	4Q 15 (+25bp)	0.50	0.50	0.50	0.50
China	1-yr workin		-14	69	-56	7 Jul 12 (-31bp)	-	On hold	6.00	6.00		
Korea	Base rate	2.50	-165	50	-75	9 May 13 (-25bp)	10 Jul 14	2Q 15 (+25bp)	2.50	2.50	2.50	2.75
Indonesia	BI rate	7.50	-237	175	75	12 Nov 13 (+25bp)		On hold	7.50	7.50		
India	Repo rate	8.00	113	325	0	28 Jan 14 (+25bp)	5 Aug 14	4Q 14 (+25bp)	8.00	8.25		
Malaysia	O/N rate	3.00	-24	100	0	5 May 11 (+25bp)	10 Jul 14	Jul 14 (+25bp)	3.25	3.25		
Philippines	Rev repo	3.50	-356	0	-100	25 Oct 12 (-25bp)	31 Jul 14	4Q 14 (+25bp)	3.50	3.75		
Thailand	1-day repo	2.00	-183	75	-125	12 Mar 14 (-25bp)	6 Aug 14	1Q 15 (+25bp)	2.00	2.00		
Taiw an	Official disc		-71	63	0	30 Jun 11 (+12.5bp)	_	1Q 15 (+12.5bp)	1.875	1.875		

¹ Refers to trough end-quarter rate from 2009-present ² Effective rate adjusted on daily basis. Source: J.P. Morgan Bold denotes move since last GMOS and forecast changes. Aggregates are GDP-weighted averages



Forecasts & Strategy

Interest rates		Current	Sep-14	Dec-14	Mar-15	Jun-15
United States	Fed funds rate	0.125	0.125	0.125	0.125	0.125
	10-year yields	2.62	2.90	3.00	3.10	3.20
Euro area	Refi rate	0.15	0.10	0.10	0.10	0.10
	10-year yields	1.29	1.35	1.50	1.60	1.70
United Kingdom	Repo rate	0.50	0.50	0.50	0.75	1.00
	10-year yields	2.75	2.80	3.05	3.20	3.35
Japan	Overnight call rate	0.05	0.05	0.05	0.05	0.05
	10-year yields	0.56	0.55	0.55	0.65	0.70
Emerging markets	GBI-EM - Yield	6.53		7.04		
Credit Markets						
US high grade (bp	over UST)	124		110		
Euro high grade (as	Euro high grade (asset swap sprd)			80		
USD high yield (bp	vs. UST)	412		375		
Euro high yield (bp	over Bunds)	325		365		
EMBIG (bp vs. US	Γ)	275		275		
EM Corporates (bp	vs. UST)	331		300		
Foreign Exchan	ge					
EUR/USD		1.37	1.34	1.30	1.30	1.28
USD/JPY		102	102	106	107	107
GBP/USD		1.72	1.71	1.67	1.68	1.66
AUD/USD		0.94	0.92	0.91	0.90	0.91
USD/BRL		2.22	2.30	2.40	2.45	2.50
USD/CNY		6.16	6.20	6.15	6.15	6.15
USD/KRW		1010	1000	1000	995	985
USD/TRY		2.13	2.15	2.15	2.15	2.15
				Quarterly A	Averages	
Commodities		Current	14Q3	14Q4	15Q1	15 Q 2
Brent (\$/bbl)		111	105	105	103	98
Gold (\$/oz)		1327	1260	1285		
Copper (\$/metric to	on)	7039	6750	6950		

YTD Equity Sector Performance*	US	Europe	Japan	EM\$	
Energy	13.0%	11.8% UW	10.7%	UW 5.0%	UW
Materials	8.5%	4.5% OW	-3.7%	UW -0.2%	UW
Industrials	4.1%	0.9% OW	2.6%	OW 3.9%	OW
Discretionary	0.4%	3.1% N	-5.0%	OW 7.6%	N
Staples	5.1%	4.9% UW	6.7%	OW 2.0%	UW
Healthcare	11.2%	10.8% N	2.8%	UW 7.6%	N
Financials	4.7%	1.4% OW	-10.9%	OW 4.8%	N
Information Tech.	8.1%	-2.9% OW	3.3%	UW 14.1%	OW
Telecommunications	4.4%	2.0% UW	-5.6%	OW -0.8%	UW
Utilities	17.3%	17.8% N	-4.2%	UW 12.8%	N
Overall	7.0%	5.3%	-2.7%	5.9%	

^{*}Levels/returns as of Jul 01, 2014

Source: J.P. Morgan

Investment themes and impacts

Low growth means money stays easy

The current US recovery is the slowest since WWII. Global growth will barely exceed potential. Easy money stays for a long time.

Low macro vol drives carry trades

ZIRP and low macro vol make earning risk premia and carry very attractive.

Rotate risk from over-owned and -valued

... to better valued and less owned risk assets. Credit OWs are now small, and exposure is moved to equity, EM and commodity roll.

OW EM across asset classes

Relative macro momentum is switching to EM. EM growth expectations are stabilizing while those in DM have come down badly. Investors seem UW EM, while it offers better value. OW EM across bonds, FX, credit and equities.

Avoid and hedge what is suspect

Our UWs are not just based on value and macro momentum but also on what seems uncertain, coming from event risk, such as the Middle East and China, or from the unexplained (fall in Urate and Q1 GDP). Hedges include oil futures, UW US FI vs EU, UW US equity vs EM.

Past half-time in the global business cycle June marks the 5th anniversary of the recovery. Working hypothesis is an 8-year recovery. That keeps the equity rally on track, but makes the credit rally mature.

Source: J.P. Morgan

Tactical overview

	Direction	Country	Sector
Asset allocation	Bullish risk	EM	OW Equities, HY vs bonds,
Equities	Long	EM, Dax	Semiconductors; J-REITs; cycl's
Bonds	Flat Duration in DM; long in EM	,	
Credit	Small OW	EU	HY, FINs, EM.
FX	Long EM	Carry from: COP, CNY, PHP, NGN	Long SEK, NOK vs. EUR; short ZAR vs. USD.
Comd's	Small long		Brent on carry; Copper on better demand from China .

Source: J.P. Morgan

Global Market Strategy

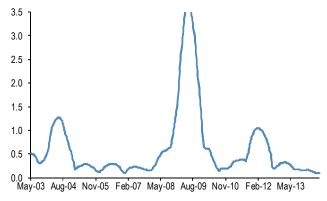
- Our core strategy remains based on low macro volatility and easy money and keeps us long risk premia and carry.
- Relative value and relative risk are the main drivers of allocations across countries and risk asset types.
- Our main value consideration is that credit spread tightening seems mature and thus less attractive than risk premia in equities, commodity roll and EM. By now our credit OW is small, and we have comparatively larger longs in equity, commodity and EM risk.
- Relative downside from event risks (Middle East) or simply the unexplained (US Q1 growth and US jobs growth) lead us to be long energy commodities futures, and UW US bonds and equities versus Euro and EM.
- We remain overall long EM through FX, credit, local bonds and equities, on value, relative risk, and the reversal in relative macro momentum towards EM.

Markets continue to perform broadly on plan, with stocks hitting new historic highs, bonds and credit spreads in a range, and EM on net outperforming. Against forecasts, the dollar weakened, likely on the massive downgrade on US Q1 GDP growth.

At the core, our long-risk strategy of the past few years has not been based on a bullish growth view, but instead on a bearish view on volatility and uncertainty against what we consider to be still attractive risk and yield premia in the presence of no return on cash. In recent months, we have combined this with a rotation across risk assets from what we considered relatively over-owned and valued risk assets – primarily credit – towards relatively under-owned and under-valued risk assets - EM and commodity roll.

This strategy – net long risk assets plus risk rotation – continues to work well and underlying conditions remain supportive, in our mind. But anytime one counts on low volatility and uncertainty, one needs to be constantly on the lookout for what can disturb this quiet. At the macro level, disturbances can come from surprises on growth, inflation, company actions, policy and politics. Most measures of delivered macro volatility and surprises are showing that little new seems to be hitting markets. In our sister publication, Flows & Liquidity, Nikos Panigirtzoglou

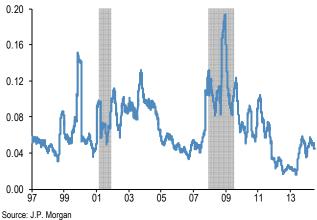
Figure 1: Global GDP Forecast Revision Index Volatility %, 12-month rolling standard deviation of index of JPMorgan Global GDP growth forecast for current and next year.



Source: J.P. Morgan

Figure 2: A proxy for US monetary policy surprises

NBER recessions in shaded areas, 3m stdev of daily changes of the difference between the 3m US OIS rate 2y forward minus the spot 3m OIS rate.



shows that economic growth and company earnings volatility are at historic lows. Figure 1 shows that the rolling 1-year volatility of our global GDP Forecast Revision Index has fallen to a 12-year low point.

In contrast, US monetary policy expectations have grown more volatile, even as they remain near the lows of previous cycles (Figure 2). And in the corporate world, credit ratings actions and credit watches are steadily increasing (Figure 3). Higher delivered volatility on monetary policy and credit is keeping us out of trying to earn term premia in DM bond markets and is one contributing factor that has made us bring our corporate credit overweight to a small position.

Delivered volatility obviously only tells you about the past and by itself does not predict the incidence of future shocks. If anything, the mean reversion in volatility is a

warning that volatility and uncertainty are bound to rise in the future, even as this tells us little about when. To some degree, forecasting future shocks is like forecasting surprises and is thus by definition impossible. If you could forecast a surprise, then others could also and its event would no longer constitute a surprise. Shocks that arrive like a sudden tsunami or earthquake cannot be predicted, except for highlighting where such natural events are more likely to occur.

But we can do better. One approach is to look at puzzles, disagreements, and disequilibria as a more likely area of future surprises. Another is to look at smaller disturbances as we find larger shocks typically start as smaller ones.

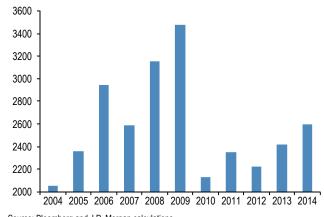
On the first, we look at areas where there are clear **puzzles** and where there is thus a higher chance of a different outcome than most expect. Two immediately come to mind and both are in the US: the unexplained fall in Q1 GDP and the wide gaps between US job growth and economic growth. At the start of the year, we and consensus expected a 2.5% growth for US Q1. The latest official estimate printed -2.9%, one of the largest misses ever. Still, equities have rallied during the last few months of downward revisions. This is likely because the Q1 miss does not appear to have a clear smoking gun and because jobs and earnings data were a lot better behaved that quarter. The markets in effect have ignored the GDP miss, but this still leaves a feeling of uncertainty and a discomfort that the US economy could just drop this badly with no clear explanation.

Also in the US, we have the continuing divergence between jobs and economic growth, with the unemployment rate now well below the level where Bernanke only last year mentioned he would consider starting the hiking process. There is so far little sign yet from wages that the US labor market is tightening up, but the mystery about whether the fall in labor participation is cyclical or structural adds to uncertainty about when the Fed will be forced to hike rates.

On the second source of risk, it is our experience that the shocks that really hurt you almost all start as small brushfires that keep growing as they have a lot of kindling around them – contagion – before either burning out or becoming a wildfire that consumes the block. The great majority of these eventually burn out. Unfortunately, there is no sure-fire way to tell which brushfire will burn out and which will get out of control. This requires discretion. The main smoldering risks that seem to be out there are the widening Sunni-Shia civil war in the Middle East; the unresolved rise in leverage in China; and deflation risks in the Euro area. On the former, we have no comparative advantage but find that there appears to be little local

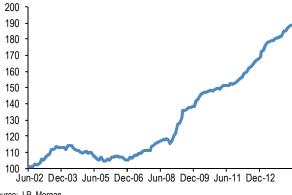
Figure 3: Corporate credit actions

Average of total credit actions by Moody's and S&P's, including credit watches, 2014 figure is YTD annualized.



Source: Bloomberg and J.P. Morgan calculations

Figure 4: Chinese leverage Total social financing / nominal GDP.



Source: J.P. Morgan

interest in compromise and instead ample willingness to add fuel and resources to the fire. Hence, we should assume that this brushfire is not going away fast and requires protecting against.

On **China**, the significant growth in leverage – debt rising much faster than the economy (Figure 4) – has created a time-inconsistency between its two main policy objectives, maintaining growth and liberalizing markets. The two clearly support each other longer term, but the dramatic rise in leverage creates the risk of a credit crisis, and thus a recession, if the markets are opened too fast. The desire to maintain growth around 7.5% is delaying efforts to delever the system, raising the ultimate risk of a credit crisis. So far policymakers have only managed to slow the pace of leverage growth. Investors look at China and feel they have seen this movie already, twice, during the US subprime and Euro sovereign debt crises. Hence, the market will continue to price in a hefty credit risk premium around Chinese

equities. Our best guess is that a credit crisis in China remains a live risk, but is likely 1-2 years away.

On **Euro deflation**, investors and policy makers have taken notice, inducing the former to overweight euro duration and the latter (the ECB) to take preventative action. The ECB delivered last month more than expected with a -0.1% negative rate on deposits and a 4-year funding package for banks (LTROs) on condition they increase their lending. The main motivation of ECB easing was surely to cut off the growing risk of deflation in the Euro area. And this risk was also why we have been overweight euro bond duration versus the US and the UK since Q4. Deflation would be averted if the ECB succeeds in either driving the currency down (as the BoJ accomplished) and/or in pushing up aggregate demand. The euro is not moving, even as we still forecast it to edge down to \$1.30 by yearend. Demand seems to be strengthening slowly and may even benefit from the new LTROs, but is in our mind not strong enough to eliminate deflation risk.

When a risk emerges, whether positive or negative, you have the choice of ignoring it, and even buying the assets hurt by it, or you can sell the assets most affected, either for similar ones further away (the UW/OW game), or against cash, thus reducing overall risk.

There is no fixed, simple rule on what you do in each case. We **judge each shock on its own** on whether it has a risk of growing and contagion. Most we let pass. The ones that do not go away soon lead us to underweight the area and sectors most vulnerable to them against similar risk assets further removed. We use the image of a stone thrown in a pond. The further you are from where the stone is tossed, the less affected you are. At times, there is clear risk of continued contagion and we actually reduce overall portfolio risk.

At this point, we are not inclined to reduce our overall exposure to risk assets as we do not judge our list of mishaps sufficiently threatening or imminent. But they do warrant **taking evasive action**. The puzzling slowing in US growth, even as it has largely been ignored by the market, does signal to us that this could happen again, as surprises tend to repeat. Underweighting the dollar and being long US duration would help, but conflicts with hedging against the earlier Fed risk scenario. We thus prefer underweighting the US equity market. We rather not do this versus Europe given still lingering deflation risks there and thus execute this by adding to our EM equity OW.

The main way one can hedge the risk of earlier US labor market tightening and thus Fed rate hikes is being long the dollar and short US duration. The latter is negative carry. We have instead chosen this year to be short US against euro duration, both to reduce carry costs and to combine with hedging against euro deflation, and we stay this way. Also, earlier and larger Fed hikes could create serious problems for the main carry trade that investors have been pursuing in recent years – credit. Together with our aim to rotate into better priced risk assets (see below), this has induced us to cut our credit OW to only a small position.

Hedging against contagion from the Middle East conflict requires being long crude. We were already there as we liked being long the high roll return from the backwardated oil futures curves and we stay this way. The China risk factor creates a more difficult problem and we have effectively decided not to hedge it as it conflicts with too many other ideas we are pursuing, namely better carry in EM assets and long the recent rebound in IP and Manufacturing PMIs.

Risk rotation: We are happy and stay with our advice from last month to rotate exposure from relatively over-owned and valued risk assets, credit, towards better valued and less-owned ones, commodity roll and EM. This position has worked, as credit spreads have been quite mixed (some up, some down), while equities, EM and oil have all performed well. Investor feedback on this advice has been mixed with some considering this rotation, but most have not pulled the trigger yet. Many investors remain averse to EM as they do not appear impressed by conditions on the ground, EM economies and assets have underperformed over the past few years, and they are considered vulnerable to eventual rate normalization in the US. In our mind, everything is relative. We are not yet upgrading EM growth, but our forecasts are now quite stable and we have cut DM a lot more (Figures 5-6). Relative macro momentum has in our mind thus shifted in favor of EM. The relative cheapness of EM currencies, bonds, credit and



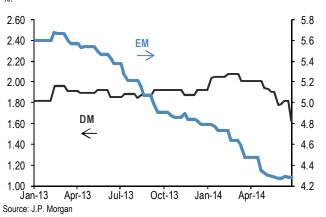
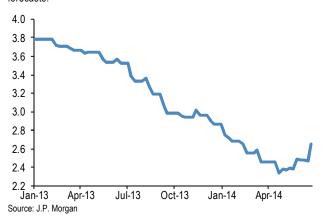


Figure 6: J.P. Morgan 2014 GDP growth forecast: EM - DM %. Difference between J.P. Morgan EM and DM 2014 GDP growth forecasts.



equities versus their EM equivalents, and the mature nature of DM credit spread tightening are added reasons for us to remain overweight EM across asset classes.

Long-only GMOS portfolio

Since last *GMOS*, our model long-only portfolio made 1.7%, outperforming the benchmark by 32bp, largely because of the heavy OW of equities. Since inception of this long-only portfolio in August 2012, the long-only *GMOS* portfolio has outperformed the benchmark by 4.1%. YTD, we have underperformed by 0.5%.

A significant overweight of equities and underweight of cash remains a strategic feature of our portfolio. Over the past few months, we have brought our Credit overweight down to only a small position (+2%) as spreads are close to cycle lows (last revision in The J.P. Morgan View, The Credit Decision, June 13). At some point over the next 6-12 months, we anticipate to be overall neutral on credit. But within credit, we put a greater allocation into highervielding product and EM. We also recently brought Commodities first to Neutral and then to a small OW, to add carry from commodity roll, as a hedge against the worsening of the civil war in the Middle East, and to position for the pickup in IP and Chinese growth. Our **Bond** UW is unchanged, not because of increased bearishness, but more because we see now better upside on Equities and Commodities than last month. We continue to zero Cash, as we believe we are in an asset inflation cycle where cash should remain the lowest return asset. That is what is indeed happening again this year.

Table 1: Global Long-only portfolio

Assets	Active Portfolio	Benchmark	Active deviation
Equities	60%	45%	15%
S&P500	24%		
S&P500 IT	3%		
EMU	12%		
Japanese REITs	12%		
EM	9%		
Bonds	17%	30%	-13%
GBI US	4%		
US TIPS	1%		
Japan	4%		
Spain	2%		
Italy	2%		
Germany	2%		
GBI-EM	2%		
GBI New Zealand	1%		
Credit	17%	15%	2%
US HG	4%		
EU HG	3%		
US HY	4%		
EU HY	1%		
EMBIG	2%		
CEMBI	3%		
US HY Loans	1%		
Commodities	6%	5%	1%
Brent	4%		·
Copper	2%		
Cash	0%	5%	-5%

Source: J.P. Morgan

Long-short GMOS tactical exposures

The long-short GMOS model portfolio continues the tactical overlay exposures we have published here since 1995. They extend across bonds, currencies, credit, equities and commodities and are calibrated to a target Var, or tracking error, of 100bp of the overall size of an underlying global portfolio.

We reduce our overall tactical risk allocation below average (79 vs. 100) as rock-bottom volatility means the nominal sizes of our exposures would have to be way above average to reach our mean target VaR of 100, a dangerous strategy as it assures an investor has the biggest exposure right before a crash. Last month, we moved to assure that the lion's share is in the positions we are most confident in and the types of trade that have been performing the best this year: equity outright long, and overweight yield and carry. This has worked and we made as much in June as we had made YTD until then.

V₂D

GMOS Long-short portfolio exposures

VaR in bp, annualized.

	VaR
PORTFOLIO TOTAL	79
FIXED INCOME	25
Long 10YR Spain vs. Germany	15
Long Germany 5YR vs. UK FX hedged	15
Long Brazil	10
Long Germany 5YR vs. USTs FX hedged	10
10Y TIPS breakeven widener	6
Long NZ 10YR vs. USTs	5
5s10s Italy flattener vs. Germany steepener	5
Long 10Y Australia vs. Japan	5
EQUITIES	18
OW Semiconductors within the US	10
MSCI EM vs. MSCI Europe	5
MSCI EM vs. S&P500	5
OW DAX vs. Eurostoxx50	5
EQ country model (OW CH, RU vs. IN, BR & SA)	5
OW US Tech vs. Telecoms	5
OW Japanese REITs vs. TOPIX	5
OW Euro area small caps vs. US small caps	3
OW MSCI EM Asia vs. MSCI EM	3
OW Euro area small caps vs. UK small caps	3
World cyclical vs. defensive stocks	3
CREDIT	22
Long CEMBI Spreads	7
Long EMBIG spreads	7
Long US HY spreads	7
US HG Financials vs non-financials (spreads)	5
Long Euro HG banks vs. US HG in CDS	5
Euro HG financials vs. non-financials (spreads)	1
COMMODITIES	16
Long Brent	10
Long copper	7
Long Sep-14 Gasoline vs. Heating oil	7
Long Mar-15 Sugar	5
Short Nickel	5
CROSS ASSET	45
MSCI AC World vs. cash	40
Long J.P. Morgan EMCI	5
FX	16
COP vs. USD	7
CNY vs. USD	7
PHP vs. USD	7
NGN vs. USD	4
USD vs. ZAR	4
PLN vs. RON	4
GBP vs. NOK	4
SEK vs. EUR	4
NOK vs. EUR	4
Source: J.P. Morgan	

Our long in carry consists of FX carry through our overall EM FX index (JPM's EMCI), CNY, COP and PHP; earning high roll yields in energy commodities; long EM local bonds (Brazil); higher-yielding credit (HY and EM); and long Euro periphery (Spain and Italy). We are now decently long EM vs DM in FX, credit, local bonds and equities. Our bearish view on UST duration is expressed only through its OW vs Euro duration.

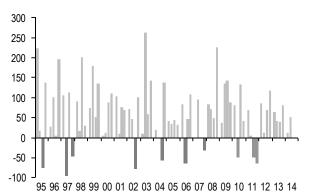
Investors who held the recommended positions in the long-short portfolio from June 4 would have made 31bp since last *GMOS* on tactical risk of 100bp (1-sigma VaR, annualized). YTD, we are up 64bp, modestly below past years' performance at the half-year mark. Returns came largely from being long equities, oil, EM and credit, and from the long-standing OW of euro vs. US and UK duration.

Performance (cumulative return, basis points)

	since last GMOS (4 Jun)	YTD
Total	31	64
Equities	1	-19
Bonds	16	46
Credit	-2	44
Currency	-1	-3
Commodity	4	-13
Cross-asset	13	9

J.P. Morgan model portfolio performance

Quarterly performance*, bp, not annualized



^{*} The GMOS performance reported is calculated as of closing on the date of the GMOS publication. Any necessary adjustment for market movements today will be made in the following GMOS, reflected in the YTD GMOS performance section. Source: J.P. Morgan.

J.P. Morgan model portfolio performance by trade P&L in basis points since the last *GMOS* publication date.

·	Since last GMO	VaR size
OVERALL	30.5	89
FIXED INCOME	15.6	29
Long NZ 10YR vs. USTs	-1.3	5
Long Germany 5YR vs. USTs FX hedged	2.3	10
Long Germany 5YR vs. UK FX hedged	8.5	15
Long Brazil	2.8	10
Long 10YR Spain vs. Germany	0.5	15
GBP 2s5s swap curve steepener	2.0	10
5s10s Italy flattener vs. Germany steepener	0.8	5
EQUITIES	0.9	20
World cyclical vs. defensive stocks	0.0	6
OW US Industrials vs. Financials	-1.3	5
OW Semiconductors within the US	3.7	10
OW MSCI EM Asia vs. MSCI EM	-0.5	8
OW Japanese REITs vs. TOPIX	-0.2	5
OW Italy vs. Germany	0.2	5
OW DAX vs. Eurostoxx50	0.9	5
OW Banks within Europe	-1.5	6
MSCI EM vs. MSCI World	0.0	5
EQ country model (OW CH, RU vs. IN, BR & SA)	-0.5	5
CREDIT	-2.1	27
US HG Financials vs non-financials (spreads) - reduced	-0.2	2
US HG Financials vs non-financials (spreads)	0.5	5
Long US HY spreads - reduced	0.8	10
Long US HY spreads	4.5	15
Long NEXGEM ex-ARG	-3.8	5
Long EMBIG spreads	0.6	5
Long CEMBI Spreads	0.9	5
Euro HG financials vs. non-financials (spreads) - increase		10
Euro HG financials vs. non-financials (spreads)	2.0	7
COMMODITIES Short Nickel	3.6	10 2
	0.0 0.2	2
Long Sep-14 Gasoline vs. Heating oil		3
Long Mar-15 Sugar	0.2	3 3
Long Copper	0.7	3 10
Long Brent - increased	0.3	
Long Brent	2.1 13.0	5 40
CROSS ASSET MSCI AC World vs. cash	13.0	40
FX	-0.5	16
USD vs. NZD	-2.5	4
USD vs. CZK	-0.3	3
TRY vs. ZAR	-0.7	6
PLN vs. RON	-0.2	4
NOK vs. SEK	1.3	4
NOK vs. EUR	1.0	4
KRW vs. USD	1.4	5
JPY vs. NZD	-1.5	4
JPY vs. GBP	-0.3	2
INR vs. USD	-0.6	4
GBP vs. NOK	0.1	4
EUR vs. SEK	-0.2	4
EUR vs. NOK	-0.2 -0.1	4
COP vs. USD	-0.1 2.1	6
0 18.4	۷.۱	

Source: J.P. Morgan

This Outlook was originally published as *Global inflation's* bottoming – how should currencies respond? in FX Markets Weekly on June 27, 2014.

FX Strategy

- Another week, another trickle lower in volatility on below-average volumes. If anyone ever wondered how currencies might respond to the world's major bond markets going Japanese sequentially, 2014 is providing a taster.
- These Japan-like conditions will prove only a phase if inflation rises sufficiently, since below-target CPI sustains the G4 monetary policies partly responsible for such an unusual market environment.
- In this sense, recent trends are potentially helpful: inflation is bottoming globally as well as in the majority of countries, and the (US) inflation theme is creeping increasingly into conversations.
- This Outlook traces the FX implications of recent inflation developments. As a stand-alone variable, inflation has always been an inconsistent driver. What matters is the real rate environment resulting from the interaction between inflation and central bank policy.
- Real rate trends will diverge significantly across countries by year end. That's another reason to think the dollar index and vols should become more interesting in Q4 but are not compelling now. In the interim, focus on much shorter-term inflation sensitivities, like sterling, Scandis and selective EMs.

Another week and another trickle lower in volatility on below-average volumes (Figure 1). In that context the dollar has slipped fractionally but continues to respect a year-long range roughly +/-2% around current levels of 84 on the J.P. Morgan index (JPMQUSD). If anyone ever wondered how currencies might respond to the world's major bond markets going Japanese sequentially, 2014 is providing a taster. Of course a Japan-like environment – with zero policy rates, central bank asset purchases, low bond yields, low volatility and low turnover – will prove just a tedious phase if inflation rises sufficiently, since below-target CPI sustains the monetary policies partly responsible for such unusual market conditions. In this sense developments over the past few months on the price front are potentially helpful - CPI has bottomed globally, it is off its lows for the majority of countries, and it is beginning to reenter conversations (Figure 2).

Figure 1: Lower volatility and lower volumes reinforcing one other J.P. Morgan VXY Global index of 3-mo implied volatility (%) versus CME FX futures volumes across all currencies (US\$ bn)



Figure 2: Inflation chatter is building with breakevens
US 10-yr inflation breakevens versus number of daily news stories containing the word
"inflation"

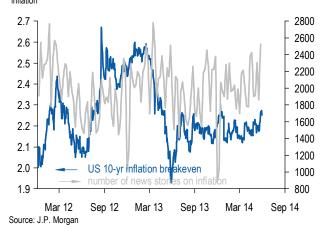
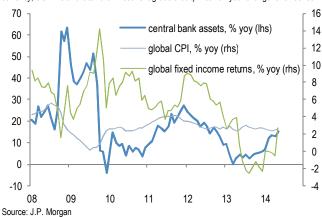


Figure 3: Central bank balance sheet growth has meant more for global fixed income returns than for global CPI inflation

Aggregate growth in balance sheets of Fed. FCR. Bot. BoF and SNR versus global CPI.

Aggregate growth in balance sheets of Fed, ECB, BoJ, BoE and SNB versus global CPI inflation and global fixed income returns (JPM GABI covering G10 gov't bonds, EM local currency, US MBS and US/Euro investment grade credit). Year-on-year change for all series.



For currencies, inflation as a stand-alone variable has always been an inconsistent driver. What matters is the real rate environment resulting from the interaction between inflation and central bank policy. Since inflation's impact is so market-specific, we trace out the pairwise implications. Real rate trends will diverge significantly across countries by year end. That's another reason to think the dollar index and vols should become more interesting in Q4 but are not compelling now. In the interim, focus on much shorter-term inflation sensitivities, like sterling, Scandis and selective EMs.

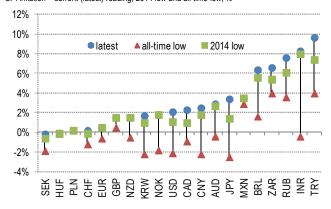
Mild payback for balance sheet expansion

Ever since the major central banks began puffing up their balance sheets five years ago, there has been an underlying but fear that policymakers would overegg inflation. Indeed they have, but much more on the asset price side than on the CPI front. Whereas those markets closed to central bank purchases (fixed income broadly defined) have generated above-average returns for most of the QE era (the taper tantrum months were the exception), the prices of goods and services have remained in a below-average range of 0-2% (Figure 3).

Maybe the balance sheet paypack is still to come, but such a dynamic wasn't part of the JPM forecast that three years of global disinflation would end this spring. ¹ Instead this forecast was based on more customary forces like a return to above-trend global growth and a turn in the commodity price cycle. Indeed those price pressures have come globally (up to 2.6% in May from 2.3% in January) and in the majority of countries. As shown in Figure 4, headline CPI is up in 13 of 20 countries this year, flat in one country (Mexico) but still falling in much of Europe (Euro area, UK, Poland, Hungary and Norway). Notably, core inflation is up in a few countries like the US, Canada and Brazil, highlighting that this spring's move is probably not simply a transitory commodity price phenomenon.

There is no need to bolt for bullion or bitcoins just yet, however. A bottoming-out in inflation globally or in the US isn't the same as an increase which is material enough to prompt central banks to shift policy this year in developed markets. This patience is mainly because wage inflation, which is the longer-term driver and therefore more of a policy focus, remains below-average throughout the major economies; indeed it is only nearing its long-term run rate in Norway (Figure 5). It is an honest admission that

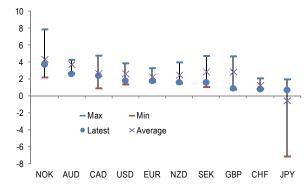
Figure 4: Headline inflation is off its 2014 lows in 13 of 20 countries CPI inflation – current (latest) reading, 2014 low and all-time low, %



Source: J.P. Morgan

Figure 5: Wage growth is closest to average in Norway and furthest from average in UK

Wage inflation (preferred measure of JPM economists for each country) currently and versus the high, low and average of the past 20 years



Source: J.P. Morgan

neither we nor central banks have much confidence in predicting when and by how much wages will respond to falling unemployment, since the relationship between measures of slack (like unemployment) and wages is variable over time, and since the degree of slack in key countries like the US and UK is quite debatable. Despite an inconclusive debate over slack, most investors think the risk bias around inflation is higher from current levels. That is why long-term inflation breakevens haven't declined much from their long-term averages, even in the Euro area. This bias plus valuations motivate the tactical longs in inflation markets recommended by JPM's Rates Strategy team.²

¹ For background on JPM's global inflation view, click these two hyperlinked articles from the weekly *Global Data Watch*: <u>Global disinflation is about to take a breather (April 11, 2014)</u> and <u>As the inflation cycle turns (May 16, 2014)</u>.

² Click this hyperlink for the most recent edition of <u>Monthly</u> <u>Inflation Outlook</u> published June 11, 2014 by Francis Diamond et al

FX and inflation: the general case

For currencies, inflation as a stand-alone variable isn't inherently good or bad, despite the purchasing power parity claim that the currencies of higher-inflation countries depreciate over time. That proposition holds for many currencies over very long (multi-year) horizons, but not over more investable ones like a few months or a couple of years. Over these shorter horizons, central bank behaviour around inflation is more important, since together, policy expectations plus inflation expectations determine real interest rates, which are a consistent determinant of currency performance.³ Figures 6 and 7 illustrate the point: the dollar index has only a loose, negative correlation with inflation expectations (R² of 0.19) but a much higher and positive correlation with real rates (R² of 0.61).

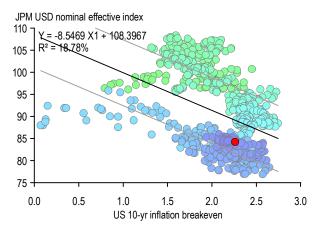
FX and inflation: the specific cases

Most would accept that real rates matter; the harder part is judging the path of real rates over the next several months, since it depends on how central banks decide to set policy. **USD** is hardest to judge in this respect. The Fed seems committed to another year of zero policy rates while inflation is turning up (implying falling real yields and USD weakness), but the front end of the US bond market is so mispriced versus the Fed dots (about 75bp for December 2016) that rising inflation could trigger a sharp repricing when wages turn (implying rising real rates and USD) strength). We are fairly confident that repricing will occur by year end but have less confidence in the short-term path. For trades, this implies a couple of short USD trades for the summer (USD/CNY, USD/PHP) while also owning some protection through dollar-based vols which would rally on higher front-end rates (USD/CHF, AUD/USD).

Like the US, the real rate story around JPY is also tricky. Our sense is that Japanese inflation is peaking, which means Japanese real rates are troughing. All else equal, this development is yen-positive, particularly if the always-inevitable rise in US real yields fails to occur. So in line with a low-confidence USD index view this summer, USD/JPY's direction is also tougher near term (target 102) but higher conviction by year-end (target 106). The shocker would come if, instead of peaking, Japanese inflation continued to rise such that it prompted a BoJ version of taper talk. That event would be quite yen-positive due to a yield spike well in excess of inflation; it also seems low-odds this year.

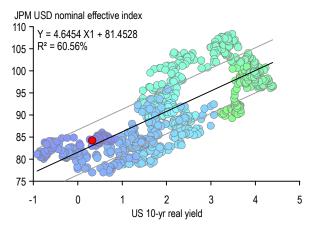
Figure 6: USD index shows only a weak correlation with inflation expectations

J.P. Morgan nominal effective USD index regressed on inflation expectations from 10-yr TIPS. Sample is from 1997 to present.



Source: J.P. Morgan

Figure 7: Much more of USD's variation is explained by real yields
J.P. Morgan nominal effective USD index regressed on real yields from 10-yr
TIPS. Sample is from 1997 to present.



Source: J.P. Morgan

The real rate paths for GBP, EUR and the Scandi's look clearer. Falling UK inflation near-term but a relatively anxious Bank of England is lifting real rates currently (GBP-positive). Our bias is to think real rates edge slightly higher into year-end even as inflation returns to 2% in early 2015, since the sterling curve discounts too slow a pace of rate normalisation (a cash rate of about 2.5% by end-2018). EUR's real rate path should be close-to-unchanged from current levels for the rest of the year since ECB policy anchors the short end while inflation bottoms around 0.3% this summer and rises to about 0.7% by December. The real rate divergence informs both the year-end EUR/USD and EUR/GBP forecasts (EUR/USD 1.30, EUR/GBP 0.78), though the EUR/GBP forecast is higher-conviction given

³ A shortcoming of PPP is that it assumes that investors respond to inflation rather than respond to the risk premium like real yields which they are paid to tolerate inflation.

the Fed cross-currents noted above. **NOK**'s real rates will probably edge slightly lower since inflation should trough soon while rates remain on hold until 2016. **SEK**'s could move lower, mainly due to the possibility of at least one more rate cut in the context of deflation (so nominal rates fall more than inflation slips). Viewed collectively, these inflation trends in Europe support a tactical long in GBP/NOK.

The paths for benchmark EM currencies are mixed.

For BRL, rising inflation and a central bank on hold might normally look currency-negative, but the central bank's focus on currency stability though its swap program provides a counterweight. USD/BRL probably moves in a 2.20-2.25 range this summer. For TRY, inflation is probably peaking but that advent is unlikely to be currency-supportive given the CBRTs easing cycle. South African inflation is peaking too and the SARB should hike once more – all positive for real rates but from too low a starting level for a country with such a large external imbalance. Avoid ZAR. For further details see today's Emerging Markets Compass, or a summary of its FX recommendations on page 16 of this week's FX Markets Weekly in the section Emerging Markets FX.

Trades

Sell NOK and SEK vs. EUR in cash

The expectation is for the Riksbank to not only cut its target rate by 25bp but also to strike a very dovish tone by slashing forward rate expectations, which should be bearish for SEK. Given that the Norges Bank is putting a very high weight on rates in Sweden and Euro area (a decline in these contributed to nearly half of the decline NB's rate forecasts in its latest meeting), we expect NOK and SEK correlations to increase. Indeed, 1m realized correlation between EUR/NOK and EUR/SEK has already increased to 65% (by contrast, implied correlation is yet to catch up and is still at 48.5%; Figure 8). Thus we recommend adding long exposure to both EUR/NOK and EUR/SEK in cash.

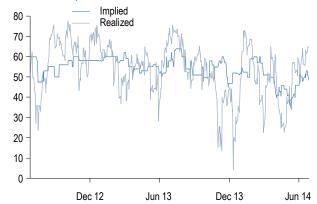
- Buy EUR/NOK in cash at 8.377 with stop at 8.258.
- Buy EUR/SEK in cash at 9.194 with stop at 9.058.

Add longs in GBP vs. NOK

As noted above, GBP appears cheap on most crosses based on our short term fair value models. Given Carney's recent commentary and relatively benign recommendations from FPC to cool housing, we think that there is room for GBP to strengthen further. Moreover, while the latest BoP report showed that the current account balance stayed at record lows of -4.5% of GDP (on a 1-year rolling basis), other details were stronger with the basic balance getting a boost from FDI

Figure 8: Implied correlations between EUR/NOK and EUR/SEK are too low relative to the realized

1m realized vs. implied correlation between EUR/NOK and EUR/SEK; %



Source: J.P. Morgan

(thanks to a large M&A deal in Q1). We prefer initiating GBP longs vs. NOK for the reasons discussed in the prior bullet.

Buy GBP/NOK in cash at 10.457. Stop at 10.205.

• Buy PLN/RON in cash

Political risks in Poland that contributed to PLN underperformance are diminishing after this week's parliamentary confidence vote, as are the balance of payments risks with less concern on outflows from the country given ECB's dovish stance. Meanwhile, activity data in Romania is likely to slow moderately (specifically IP and exports) and inflation has been low, reinforcing our view that the central bank is intervening, and will continue to intervene to weaken the currency (see *Emerging Markets* for more details).

Buy PLN/RON in cash at 1.057. Stop at 1.035.

Stay short 3-mo USD/PHP NDF

We stay short USD/PHP in anticipation of more hawkish direction of policy by the BSP. We continue to look for the BSP to be preemptive against inflation, and this macro story has not changed given the relatively sparse data calendar this week.

- Stay short 3-mo USD/PHP NDF at 43.850 on June 20. Marked at +0.1%.
- Stay short USD/CNY through a 3-m NDF

USD/CNY fixings stayed relatively stable this week and remained supportive of this carry trade which continues to screen attractive from a risk-adjusted standpoint.

- Sold a 3-mo USD/CNY NDF at 6.199 on June 6.
 Marked at 0.35%.
- Short NZD vs. USD via options expired

Last week we held the 1-mo bearish NZD/USD risk reversal as there was only one week to expiry and we thought there was a decent chance that the call expires

out of the money, which would limit losses on the trade to the premium we paid. Unfortunately, the rally in Treasuries and the commensurate weakening in the USD led to the call option being exercised which yielded us a loss.

- Bought a 1-mo 0.835 NZD/USD put vs. a 0.8700 call on 27 May for 12.5bp. Options expired this week for a P&L of -82bp.
- Hold a bearish cable one-touch calendar spread
 This trade was intended as a way to position for a rise in
 volatility in the lead-up to the Scottish referendum on
 September 18. Forward volatility has indeed risen but
 this effect has been overshadowed by rally in spot, hence
 the trade's value has halved. We recommend holding on
 to this trade for now.
 - Sold a 2-mo/buy a 4-mo 1.63 GBP/USD digital put at net cost of 21%. Now worth 8.5%.
- Hold 1Y ATMF EUR/CHF put

The ECB will continue to strike a dovish tone next week and overall, we continue to expect EUR/CHF to drift towards 1.21 in the next few quarters, a level at which implied vols should invert higher. As a result, we hold exposure to this trade.

Bought a 1Y ATMF EUR/CHF put (strike
 1.2088) for 1.81% on March 14. Marked at 91bp.



J.P. Morgan FX Forecasts vs. Forwards & Consensus

		Current					JPM fore	cast gain/los	ss vs Jun 15*	Actu	al change in	local FX v	
Majors		Jul 2	Sep 14	Dec 14	Mar 15	Jun 15	Spot	Forwards	Consensus**	Past 1mo	Past 3mo	YTD	Past 12mos
	EUR	1.37	1.34	1.30	1.30	1.28	-6.3%	-6.4%	0.0%	-0.4%	-0.4%	-0.6%	5.2%
	JPY	101.8	102	106	107	107	-4.9%	-5.2%	1.9%	0.0%	0.0%	3.5%	-1.1%
	GBP	1.72	1.71	1.67	1.68	1.66	-3.1%	-2.6%	-0.5%	2.7%	2.7%	3.6%	13.2%
	AUD	0.94	0.92	0.91	0.90	0.91	-3.5%	-1.2%	3.4%	4.4%	4.4%	5.8%	3.1%
	CAD	1.07	1.11	1.12	1.13	1.15	-7.3%	-6.5%	-1.7%	2.7%	2.7%	-0.4%	-1.1%
IDM HOD	NZD	0.88	0.86	0.85	0.83	0.82	-6.4%	-2.9%	1.2%	4.6%	4.6%	6.6%	13.0%
JPM USE	Jinaex	83.8	84.9 81.3	86.2 83.7	86.2 83.8	86.7 84.8	3.4% 6.1%	2.6% 5.7%	-0.3% -0.1%	-1.1% -0.2%	-1.1% -0.2%	-0.8% -0.1%	-2.2% -4.3%
			01.3	03.1	03.0	04.0	0.176	5.7%	-0.176	-0.2%	-0.2%	-U. 17o	-4.3%
Europe, M	Middle Eas												
	CHF	0.89	0.91	0.93	0.93	0.95	-6.0%	-6.4%	3.3%	0.3%	0.3%	0.4%	6.9%
	ILS	3.42	3.55	3.50	3.50	3.45	-0.7%	-0.6%	0.0%	2.5%	2.5%	1.4%	6.3%
	SEK	6.71	6.83	7.00	6.96	7.03	-4.6%	-4.3%	-2.2%	-3.9%	-3.9%	-4.1%	0.2%
	NOK CZK	6.18	6.27	6.38 21.00	6.31 21.00	6.33 21.33	-2.4% -5.8%	-1.2% -6.2%	-1.5% -0.7%	-1.3% -0.4%	-1.3% -0.4%	-1.7% -1.0%	-1.0% 0.1%
	PLN	3.04	3.06	3.15	3.15	3.16	-3.9%	-0.2%	-0.7%	-0.4%	-0.4%	-0.5%	10.0%
	HUF	229	224	231	227	227	0.9%	2.1%	4.1%	-1.4%	-1.4%	-5.4%	-0.9%
	RUB	34.29	34.91	35.46	35.46	35.75	-4.1%	3.6%	0.4%	2.2%	2.2%	-4.1%	-3.5%
	TRY	2.13	2.15	2.15	2.15	2.15	-0.9%	6.4%	2.3%	2.5%	2.5%	0.8%	-9.2%
	ZAR	10.75	11.00	10.75	10.50	10.50	2.4%	9.1%	3.8%	1.6%	1.6%	-2.4%	-7.0%
Americas		8.14	9.00	10.40	11.00	11.50	-29.2%	-2.0%	-4.7%	-4.3%	-4.3%	-19.9%	-33.8%
Americas	BRL	2.21	2.30	2.40	2.45	2.50	-29.2%	-2.7%	-4.7%	8.0%	8.0%	6.8%	1.9%
	CLP	553	565	570	575	575	-3.8%	-0.6%	-0.7%	-1.2%	9.4%	-5.0%	-9.1%
	COP	1856	1910	1925	1930	1940	-4.4%	-0.7%	1.5%	9.4%	9.4%	4.0%	3.2%
	MXN	12.96	12.93	12.80	12.60	12.40	4.5%	7.1%	3.2%	2.2%	2.2%	0.6%	0.7%
	PEN	2.80	2.81	2.83	2.84	2.85	-1.8%	1.4%	-0.4%	0.7%	0.7%	0.0%	-0.5%
	VEF	6.29	15.00	17.00	17.00	17.00	-63.0%	-63.0%	-26.5%	0.0%	0.0%	0.0%	0.0%
LACI		94.3	91.8	89.3	88.6	88.0	-6.7%	1.2%	0.3%	3.4%	3.4%	-0.1%	-4.1%
Asia	CNY	6.21	6.20	6.15	6.15	6.15	1.0%	1.4%	-1.0%	-2.3%	-2.3%	-2.5%	-1.2%
710.0	HKD	7.75	7.75	7.75	7.75	7.75	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%
	IDR	11913	11800	12100	12200	12300	-3.1%	3.3%	-2.2%	-0.7%	-0.7%	2.2%	-16.6%
	INR	59.7	57.0	57.5	58.0	58.0	2.9%	9.4%	4.7%	3.7%	3.7%	3.5%	0.0%
	KRW	1009	1000	1000	995	985	2.5%	3.9%	2.5%	5.4%	5.4%	4.0%	12.4%
	MYR	3.20	3.24	3.27	3.29	3.31	-3.2%	-1.2%	-1.2%	3.2%	3.2%	2.2%	-1.2%
	PHP	43.59	44.50	44.75	45.00	45.25	-3.7%	-3.2%	-2.4%	2.6%	2.6%	1.9%	-0.6%
	SGD	1.25	1.26	1.27	1.27	1.27	-1.8%	-1.8%	0.0%	1.1%	1.1%	1.3%	2.0%
	TWD	29.88	30.70	30.80	30.80	30.80	-3.0%	-3.9%	-2.6%	1.5%	1.5%	-0.2%	0.5%
	THB	32.40	32.50	33.00	33.00	33.00	-1.8%	-0.4%	0.9%	-0.2%	-0.2%	1.0%	-4.4%
ADXY		116.2	116.3	116.2	116.1	116.2	0.0%	1.1%	0.0%	0.3%	3.4%	0.2%	0.5%
EMCI		88.3	87.7	87.1	87.2	87.1	-1.4%	3.2%	1.5%	2.6%	2.6%	-0.2%	-2.5%
Exchange	e rates vs E	Euro								Actu	al change in	local FX v	s EUR
	JPY	139	137	138	139	137	1.5%	1.3%	1.9%	0.4%	0.4%	4.1%	-6.0%
	GBP	0.796	0.785	0.780	0.775	0.770	3.4%	4.1%	-0.5%	3.1%	3.1%	4.3%	7.6%
	CHF	1.21	1.218	1.215	1.213	1.210	0.3%	0.1%	3.3%	0.7%	0.7%	1.1%	1.7%
	SEK	9.16	9.15	9.10	9.05	9.00	1.8%	2.3%	-2.2%	-3.5%	-3.5%	-3.4%	-4.7%
	NOK	8.44	8.40	8.30	8.20	8.10	4.1%	5.6%	-1.5%	-0.9%	-0.9%	-1.1%	-5.9%
	CZK	27.43	27.30	27.30	27.30	27.30	0.5%	0.2%	-0.7%	0.0%	0.0%	-0.3%	-4.9%
	PLN	4.15	4.10	4.10	4.10	4.05	2.5%	4.6%	-0.2%	0.0%	0.0%	0.1%	4.5%
	HUF	312	300	300	295	290	7.6%	9.1%	4.1%	-1.1%	-1.1%	-4.8%	-5.9%
	RON	4.39	4.45	4.50 2.80	4.45	4.40	-0.3%	1.3%	-0.5%	2.2%	2.2%	1.7%	1.2%
	TRY RUB	2.91 46.82	2.88 46.78	46.10	2.80 46.10	2.75 45.75	5.8%	13.7% 10.7%	2.3% 0.4%	2.8%	2.8%	1.4%	-13.8% -7.9%
	BRL	3.02	3.08	3.12	3.19	3.20	-5.6%	3.9%	-0.8%	8.4%	8.4%	-3.3% 7.4%	-7.9%
	MXN	17.69	17.33	16.64	16.38	15.87	11.5%	14.4%	3.2%	2.5%	2.5%	1.3%	-4.3%
	MVM	17.05	17.55	10.04	10.30	13.07	11.576	14.470	J.Z /0	2.070	2.3/0	1.370	-4.5/0

[↑] indicates revision resulting in stronger FX rate , ↓ indicates revision resulting in weaker FX rate. Source: J.P.Morgan

^{*} Positive indicates JPM more bullish on local currency than spot, consensus or forward rates. ** Bloomberg FX Consensus Forecasts.

Fixed Income Strategy

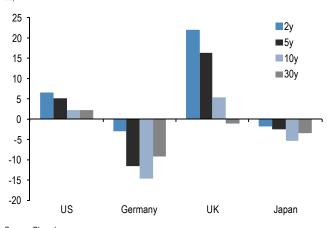
- Remain OW Euro area duration vs. UK and US duration on continued policy divergence.
- We expect Euro area growth to accelerate to 2% in H2, and we see the ECB's TLTROs as supportive of periphery bond markets: keep periphery spread narrowers.
- Hold OW Brazil local bonds due to strong investor demand dynamics and disappointing growth.
- Open US TIPS breakeven widener on a macro backdrop that is supportive of higher inflation expectations and inflation risk premia.
- We update on our systematic cross-market signals, where our real yield signal points to OW Australia vs. Japan.
- Remain OW 10Y New Zealand government bonds vs. US Treasuries.

Yield curves flattened across the US, UK and Euro area over the month (Figure 1), with a combination of macroeconomic and policy developments an important driver internationally.

In the US, the "pot hole" of 1Q got deeper, with the latest official data showing a contraction of 2.9% (qoq annualized) in GDP (Table 1). How should we think about this disappointingly weak quarter? We think it was primarily due to a combination of negative factors that are mostly one-off in nature - including a sharp inventory drawdown after a rapid buildup in 2H13, expiration of extended unemployment benefits, weather affecting consumption, and volatility in investment (*Just a bit on the outside*, Michael Feroli, Jun 25). Going forward, the survey data for 2Q suggest growth is tracking our 3% forecast, though with some downside risk arising from the latest consumption data.

The day after our previous *GMOS* was published, **the ECB**, prompted by continued downside surprises in inflation relative to its forecast, delivered a larger than expected package of measures. In particular, the fixed rate Targeted LTROs were larger in size, with an initial allowance of €400bn and a further allowance that could be as large as €450bn if Euro area banks were simply to keep their lending to the real economy unchanged over the next two years. Additionally, there are no penalties for failing to meet lending targets, beyond banks having to repay TLTRO borrowings in September 2016 instead of September 2018.

Figure 1: Changes in G4 benchmark yields on the month



Source: Bloomberg

Table 1: JPM GDP growth forecasts for 2014 now vs. at end-2013 %, goq annualized

	End-20	013			Currer	ıt		
	1Q14	2Q14	3Q14	4Q14	1Q14*	2Q14	3Q14	4Q14
US	2.5	2.5	3.0	3.0	-2.9	3.0	3.0	3.0
UK	3.0	2.5	2.5	3.5	3.3	3.0	2.5	3.0
Japan	4.0	-4.5	1.2	1.7	6.7	-4.5	2.0	2.0
Euro area	1.0	1.0	1.5	1.5	0.7	1.8	2.0	2.0
Germany	2.0	1.5	2.0	2.0	3.3	2.0	2.5	2.5
France	0.5	0.5	1.0	1.0	0.1	1.0	1.5	1.5
Italy	1.0	1.5	1.5	1.5	-0.5	1.5	1.5	1.5
Spain	0.5	1.0	1.5	1.5	1.5	1.5	2.0	2.0

* 1Q14 in the current column are latest available estimates. Source: J.P. Morgan

This should reinforce the easing in Euro area financial conditions. But given our estimate of the output gap, even with faster growth we expect the ECB to continue to be disappointed on inflation (ECB tilts Euro area growth risks to the upside, David Mackie et al, Jun 13).

The combination of an improvement in the macro outlook and a dovish ECB in H1 has supported our medium-term expectation of narrower spreads of periphery government bonds to German Bunds. We think these drivers will remain in place with the ECB's TLTROs supporting periphery bond markets via demand for carry. Our European rates colleagues now forecast Italian and Spanish 10Y yield spreads to Germany to narrow to 110bp by the end of the year (vs. forwards of 163bp and 153bp respectively). That said, we see reasons to be cautious as the current low volatility environment has the potential to encourage complacency the longer it continues, and our European Client Survey (Jun 26) shows investors are fairly long the periphery and have been for some time. At the

same time, any sign of sovereign QE by the ECB would add impetus to periphery spread compression. We keep our long-standing OW periphery vs. core position.

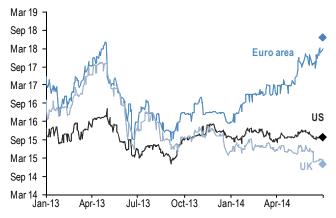
In the UK, the last few weeks have seen monetary policy take centre stage, with an apparent lack of consistency in communications. Last month, the BoE struck a more dovish than expected tone in the May Inflation Report, seemingly leaning against expectations that it might raise rates sooner, only for Governor Carney to use the annual Mansion House speech this month to describe the decision on rates as "becoming more balanced" and that the first hike in rates "could happen sooner than markets expect", prompting a sharp rise in front-end yields. Subsequently, it has become clear that the MPC view on the evolution of the policy rate is highly data dependent (MPC's TSC appearance echoes sentiments of June minutes, Allan Monks, Jun 24), which in our view will intensify the market focus on labor market data. Our economists continue to expect the first rate hike in O1 15, with some risks for an earlier rise.

The increasing divergence between an ECB with an easing bias and a Fed and BoE approaching the beginning of policy rate normalization has contributed to spreads between 5Y German bunds and US Treasuries/UK gilts to widen to their highest level since 2006 and 2005, respectively. While this has prompted questions about how much further these spreads can widen, we continue to see upside. In particular, while the market now broadly prices in our view of the expected timing of a first rate hike by the Fed and the BoE (Figure 2), there is still a gap between market pricing in terms of the pace of hikes. For example, Figure 3 shows that OIS forward rates continue to imply a substantially lower Fed funds rate in future years than the Fed's own projections. We stay long 5Y German Bunds vs. US Treasuries and UK gilts.

The environment of low volatility and range-bound Treasuries has continued to support EM local market **bonds**, which have outperformed DM bonds by around 0.3% on an FX-hedged basis since our last publication. Additionally, EM fixed income has been supported by increasing inflows to EM local currency funds, and the shift to more monetary easing in many EM countries should help to attract further inflows into these funds. The key risk to watch for EM relate to any unexpected developments in Iraq and potential impact on oil prices. Within EM, we stay OW Brazil local debt on an FX-hedged basis. The market has absorbed heavy supply in recent months without materially affecting bond prices, which was one risk to this trade our EM strategists highlighted earlier in the year. And on the growth front, the output gap appears to be moving towards the disinflationary camp, which should be supportive of bonds (see EM Local Market Compass, Jun 27).

Figure 2: Market-implied timing of a first rise in interest rates vs. JPM economist forecasts

Solid lines show the market-implied timing of a first rise in policy rates derived from the OIS curve*; diamonds show the beginning of the quarter when J.P. Morgan economists forecast a first rate hike

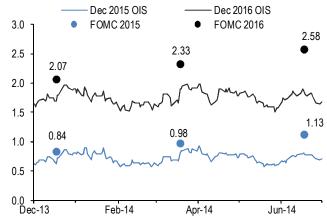


^{*} Time at which the 1M OIS rate is 25bp above current policy rates after adjusting for term premia. We assume 5bp, 10bp and 5bp per year for the US, UK and Euro area respectively, rising linearly.

Source: J.P. Morgan

Figure 3: FOMC Fed funds target forecasts vs. OIS rates

Trimmed mean* of FOMC year-end Fed funds target forecasts for 2015 and 2016 vs. 1-month OIS rates out of Dec 15 start date; %



^{*} Excludes the 3 highest and lowest projections in the Summary of Economic Projections. Source: Federal Reserve, J.P. Morgan

Systematic trading signals

We update our suite of systematic signals for outright and cross-market fixed income trading to complement our qualitative and discretionary approaches. Our duration model uses signals for momentum in prices (from both equity and bond markets), economic news (via manufacturing PMIs and earnings revisions) and carry (via the curve slope), and we apply these signals to bond futures in 10Y US, German, Japanese, UK, Australian, Canadian, Swedish and Swiss government bonds. The duration model

Table 2: Current positioning of systematic duration signals

Positive numbers indicate long duration, negative numbers short duration

	Weight	Euro area	Japan	UK	US	Australia	Canada	Sweden	Switzerland	Combined
PMI	15%	0.0	-1.0	-1.0	-1.0	-1.0	0.0	0.0	0.0	-0.5
Revision ratio	15%	-1.0	0.0	0.0	-1.0	0.0	-1.0	-1.0	-1.0	-0.6
Bond momentum	20%	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.9
Equity momentum	15%	-1.0	-1.0	-1.0	-1.0	1.0	-1.0	-1.0	-1.0	-0.8
Carry to Risk	35%	0.3	1.1	1.6	2.0	1.4	0.7	0.6	-0.4	0.9
Combined		0.0	0.3	0.3	0.4	0.7	0.2	0.1	-0.2	0.2

Source: J.P. Morgan

argues for small long duration position overall (Table 2), and the performance of the combined signal across countries has been flat year-to-date (Table 3).

We also monitor a range of cross-market signals which we have found useful in cross-market allocation, and apply these to 10Y interest rate swaps in major developed markets. These include 1) carry, 2) the change in the curve slope (capturing the tendency of markets which have underperformed recently to catch up), 3) real yield (the 10Y nominal yield less Consensus forecasts for inflation over the next 10 years), and 4) unemployment relative to the average over the previous 10 months. Some of these cross-market signals have performed better so far this year (Table 4), particularly the real yield and unemployment signals. We focus on the real yield signal (Table 5), which points to an overweight in Australia vs. Japan with a real yield differential of around 2.3%.

Table 3: Performance of duration signals

Duration signals across all 8 countries for each signal*, % change in the cumulative total return index for each signal.

			•			
	Bond	Equity	Carry to			
	momentum	momentum	risk	PMI	Revision	Combined
2010	4.0	-0.2	12.2	-2.6	3.4	2.7
2011	1.9	3.1	3.3	10.5	8.2	4.5
2012	1.7	-1.6	-0.7	1.2	-1.1	-0.1
2013	0.5	1.6	-0.5	-2.4	0.9	0.0
2014 to-date	-0.7	-3.8	3.4	0.0	-0.2	-0.2

Equally weighted average across the eight countries (Germany, Japan, UK, US, Australia, Canada, Sweden and Switzerland) for each signal, and the combined performance using weights in Table y.

Source: J.P. Morgan

Table 4: Performance of cross-market signals

Cross-market signals using two long-short pairs for each signal*, % change in the cumulative total return index for each signal.

			Change in	1	Unemployment
	Carry	Carry to risk	slope	Real yield	change
2010	4.22	2.70	1.73	1.96	0.85
2011	4.50	-0.77	0.15	3.86	-2.32
2012	3.22	2.31	-0.07	0.52	1.89
2013	-5.52	-1.10	-3.73	-1.83	-4.38
2014 to-date	-0.44	-0.53	-1.79	0.85	2.76

For each signal, the eight markets (Euro area, Japan, UK, US, Australia, Canada, Sweden and Switzerland) are ranked at the end of each month. The top market is paired against the bottom market, and the second with the second-to-last. Source: J.P. Moroan

Table 5: Cross-market signals

%. For each signal, the most favored country is shown in grey, and the least favored in white.

	AUD	CAD	EUR	JPY	GBP	USD	SEK	CHF
Carry	1.24	1.42	1.36	0.61	2.28	2.46	1.35	1.02
Carry to risk	0.34	0.34	0.33	0.39	0.49	0.54	0.35	0.31
Change in slope	-0.34	-0.20	-0.28	-0.09	-0.20	-0.20	-0.20	-0.29
Real yield	1.27	0.75	-0.30	-1.01	0.41	0.45	0.38	-0.09
Unemployment change	-0.03	-0.01	-0.22	-0.31	-0.74	-0.59	-0.18	0.00

Source: J.P. Morgan

Long-short bond portfolio

 Stay long 5Y German bunds vs. UK gilts (★★★) and USTs (★★), FX hedged

We retain our long-standing view of wider yield spreads between German Bunds and UST's/UK gilts. Our European rates strategists project 5Y US-Germany spread of 200bp by end-2014 and a 5Y UK-Germany spread of 205bp.

Remain long Spain vs. Germany in 10 years (***), and hold 5s10s Italy flattener vs. Germany steepener (*)
 As noted above, we retain our medium-term view for narrower spreads between periphery and core government bond yields.

• Stay long 10Y NZ bonds vs. US Treasuries, FX hedged (★)

We think the combination of an interest rate rise by the RBNZ and a more hawkish statement in its June

meeting, even as it revised its inflation forecast lower, signals an intent to pursue more aggressive rate hikes in the near term. Further hikes, together with already tightening financial conditions and an elevated currency are supportive of the long end of the NZD curve as this has a dampening effect on economic activity, which should weigh on long-term yields (see also *Australia and New Zealand, GFIMS*, Jun 13).

Hold long in Brazil, FX-hedged (★)

As we note above, the market has absorbed a heavy supply in recent months, and the output gap appears to be moving towards the disinflationary camp, which should be supportive of bonds (see *EM Local Market Compass*, Jun 27).

• Open 10Y US TIPS breakeven widener (★)

Given the recent acceleration in inflation, we look for headline CPI to reach 2.4% by year-end. However, we expect the Fed to maintain a dovish tone as we see core inflation remaining muted and 5Yx5Y breakeven inflation rates remaining low. This macro backdrop argues for higher inflation expectations and inflation risk premia (for further detail see *TIPS, USFIMS*, Jun 27). In addition, given the combination of disappointing 1Q US GDP growth and the decline in unemployment has raised concerns that potential growth in the may be lower, we see this as a risk bias tilted toward further inflationary pressures.

Open long Australia vs. Japan in 10Y, FX-hedged (★)

As indicated above, the real yield signal from our cross-country systematic signals points to a long position in Australia vs. Japan with a real yield differential of around 2.3%.

Closed 2s5s GBP swap curve steepener

We took profit on our 2s5s GBP swap curve steepener following BoE Governor Carney's Mansion House speech, as the more hawkish rhetoric posed risks of faster rises in short-term yields (see *JP Morgan View*, Jun 13).

Long-only bond portfolio

Our long-only bond portfolio complements our longstanding portfolio of long-short trades. We take as our starting point a benchmark of \$29tr of government and government-like bonds, comprising conventional government bonds, index-linked bonds and MBS. We construct a global bond portfolio using a small number of bond sectors, which takes this benchmark as its baseline, but is tilted to reflect the tactical themes discussed above.

Recommended portfolio holdings

Asset	Active allocation
GBI US	24%
US TIPS	6%
Japan	25%
Spain	10%
Italy	10%
Germany	11%
GBI-EM	9%
GBI New Zealand	5%
Tracking error	0.7%
Portfolio duration	6.4
Benchmark duration	6.7

Source: J.P. Morgan

Our long-only portfolio holds overweight in the Euro area periphery, Japan, US TIPS, EM and New Zealand, and an underweight US Treasuries and the UK. Duration is around 3 months below benchmark, and the tracking error declined to 0.7%. Last month, our recommended portfolio was broadly flat relative to the benchmark.

Credit Strategy

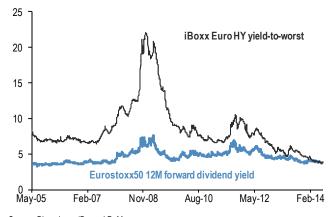
- Credit spreads are close to pre-crisis lows, issuers are starting to leverage up and credit is likely the relatively more over-owned asset class. We have reduced our OW further.
- Within credit, we maintain our focus on US HY and EM credit markets.
- A more advanced credit cycle in the US and deleveraging in Europe mean we go long European HG vs. US HG.
- We stay OW financials vs. non financials in both Europe and the US, but close the long in NEXGEM ex-Argentina.

We further reduced our credit OW intra-month to small (2% from 5%) on the fast growth of the asset class, tight spreads, stronger M&A activity, and concerns about liquidity during the eventual rise of interest rates (*J.P. Morgan View*, Jun 13). Credit is the faster growing risk asset class, and thus relatively more over-owned by end investors. Spreads have fallen to levels not far from past cycle lows. These lows typically happen about 2/3rds into an expansion, which is where we think we currently are. Issuers are starting to lever up, and investors are beginning to worry about how the eventual exit from the credit trade will fare in a world of reduced market making by banks.

The relationship between equity and credit is not linear. In a bullish risk environment, equity markets can continue rising while credit spreads will benefit less and less, as companies tend to start re-levering later in the cycle. However, should we see a sell-off in risk due to earlier or greater than expected Fed rate hikes, both equities and credit would likely suffer, but credit is far less liquid. As such, we prefer to take more risk in equities.

Within credit, we continue to focus on US HY and emerging markets and we now add a European HG OW vs. US HG. Deleveraging and ECB support to the European banking sector should continue to tighten bank credit spreads, which are a significant part of the European market. Secondly, the US credit cycle is more advanced than in Europe and will likely see companies re-leveraging in the US vs. deleveraging in Europe, particularly for banks. We recommend implementing this trade via selling protection in iTraxx Senior Financials and buying protection on CDIX.IG (Credit Trade Opportunities, Dulake et al., Jun 26).

Figure 1: Euro HY yields vs. Eurostoxx50 dividend yield %. iboxx Euro HY yield-to-worst and Eurostoxx50 the next year's expected dividend yield from Bloomberg



Source: Bloomberg, iBoxx, J.P. Morgan.

We stay long US HY spreads but took profit on our long Euro HY spread position at the beginning of June as credit metrics were worsening and yields had reached very low levels. Since then, Euro HY spreads are 2bp wider, while US HY is 11bp tighter. Next year's expected dividend yield on the Eurostoxx50 is now above the Euro HY yield-to-worst for the first time since we have data in 2004 (Figure 1). Additionally, with spreads and yields so low, equities likely have significantly more upside in terms of capital appreciation than credit (European High Yield Market Update and Commentary, Matthew Bailey et al.)

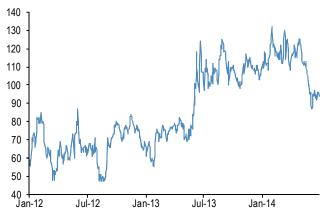
In **Europe**, financials have underperformed non-financials significantly over the past month on position squaring following the ECB's TLTRO announcement and the growing risk of widening fines on European banks. We still like European financials, given they are continuing to delever while non-financial credit metrics are worsening but we trim our OW. **In EM**, we maintain our long EMBIG and CEMBI spread trades but we close our long in NEXGEM ex-Argentina at a loss.

Our US HG strategists have added an additional framework for evaluating the credit fundamentals of HG issuers which takes into account the changing composition of the US HG market over time. For key metrics such as leverage and interest coverage there has been a deterioration over the past few years for individual issuers, but the composition of the market has changed such that this is mostly offset at the index level. Comparing these metrics to spreads shows that spreads have tightened while leverage has risen modestly, but the trend in interest coverage is supportive of the tighter spreads (*CMOS*, Beinstein et al., Jun 27).



Figure 2: EM spread over US HG

Basis points, adjusted for differences in maturity, sector and rating



Source: J.P. Morgan EM corporate research (EM vs. US HG Relative Value Report, Eric Beinstein and YM Hong)

Figure 3: US HG credit spreads

Bp. JULI index.

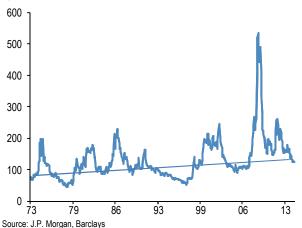
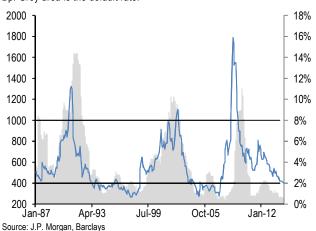


Figure 4: US HY credit spreads

Bp. Grey area is the default rate.



Long-short credit portfolio

• Long US HY spreads (★★)

High-yield spreads remain elevated vs. default rates, which have now fallen below 1%. US HY spreads are also still around 100bp above the lows seen in the last two expansions and we expect them to tighten further.

Long EMBIG and CEMBI spreads (★★)

Event risk in EM appears to be fading for now, while low volatility and the search for yield are supporting carry trades. Improving economic data in China are also helping.

Sell protection on iTraxx senior financials vs. buy protection on CDX.IG (★)

A more advanced credit cycle in the US and deleveraging in Europe mean we go long European HG vs. US HG. European banks should benefit from ECB support and are still in delevering mode. Thus we expect financials to outperform.

Long US and EU HG FINs vs. non-FINs in spreads (*)

Banks remain in delevering mode, especially in Europe, while non-financials are seeing leverage increase somewhat as they issue debt to buy back their own stock. In Europe, the ECB measure, coupled with continued strong demand for quality spread product, make us OW financials.

• Close Long NEXGEM ex-Argentina (★)

NEXGEM underperformed again last month, even excluding Argentina. The index trades on a number of idiosyncratic events in the constituent countries and we now close the trade at a loss.

Long-only credit portfolio

This section presents the long-only version of our credit portfolio. We define a market-capitalization weighted global credit benchmark (hedged into USD), using the most representative ETF on each sector to track total returns. We weight each component in the active portfolio, according to our expectations of relative returns and risks over the coming months. Table 1 shows our active allocations as well as the portfolio's yield, rating and duration

This month we maintain our OW in US HY and emerging markets given more attractive spreads than in high grade. We also now move overweight European vs. US HG on A more advanced credit cycle in the US and deleveraging in Europe. This positioning generates a tracking error of 1.3% based on daily returns over the past 6 months, and a yield 0.9% above the benchmark with a third of a year shorter duration. The average rating for our portfolio, which takes into account our active positions, and is based on Moody's and S&P's fund ratings, is currently BB rated, one notch below the benchmark.

Table 1: The long-only global credit portfolio

Sector	Allocation
US HG	22%
EU HG	18%
US HY	21%
EU HY	3%
EMBIG	12%
CEMBI	17%
US HY Loans	6%
Rating	BB
Duration	5.1
Yield	4.4%
Tracking error	1.3%

Source: J.P. Morgan

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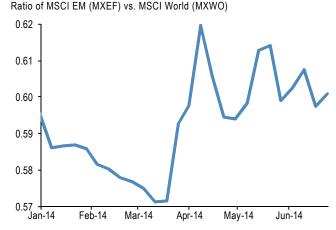
Equity Strategy

- We add risk to our OW in EM equities but focus the short leg on the US and Europe only.
- Recent momentum in Japanese equities and the prospect of further government policy action make an implicit Japanese equity underweight unattractive, in our view.
- Take profit on peripheral Euro area equities and Euro area banks as valuations no longer look attractive and litigation risks remain elevated.
- Open OW DAX vs. Eurostoxx 50. DAX is trading with the lowest P/E multiple across Euro area countries and the rebound in EM and China implies greater upside for German equities.
- Open a long in Euro area small caps vs. their US and UK counterparts.
- Our systematic global equity country model currently favors China, Sweden, and Russia vs. Switzerland, Brazil, and South Africa.
- Stay OW US Semiconductors into H2 as we remain constructive on medium-term fundamentals.
- We OW Technology vs. Telecoms based on 11month relative return momentum across US sectors.
- Stay OW Cyclical vs. Defensive sectors globally on positive momentum in the global manufacturing PMI.

Global equity markets continued to rally over the past month, with the MSCI AC World index printing new historical highs. In a stark contrast to earlier this year, Japan has been the best performing region this month, up by almost 7%, reversing most of its previous loss since the beginning of the year. The S&P 500 is up almost 3%, MSCI EM is up by 2% whilst Eurostoxx 50 remained flat. EM equities outperformed by almost 1% against DM equities over the past month but admittedly momentum has faded over the past three months (Figure 1). We remain positive on EM vs. DM into the second half of the year due to cheap valuations, further compression of excessive risk premia in EM, further covering of EM underweights by global funds, an economic growth improvement into H2 and an acceleration of EPS growth into 2015.

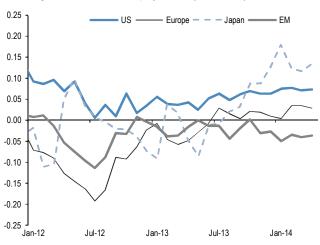
The recent momentum in the Japanese equity market is encouraging, especially coupled with renewed government policy activism. Our strategists note that the credit cycle will be a necessary part of turning the current upswing into

Figure 1: MSCI EM flat vs. MSCI World YTD



Source: Bloomberg, Datastream, J.P. Morgan

Figure 2: EPS growth across regions
YoY change in 12m forward EPS projections by IBES analysts



Source: Datastream, J.P. Morgan

a sustained bull market for Japan. Although the real estate market is bottoming and inflation expectations are rising, encouraging a shift to debt financing, domestic investors remain elusive participants, which keeps us a little wary (*Japan equity research*, J. Koll et. al, Jun 23). We are not yet re-introducing our previous Japanese equity overweight but we prefer to express our MSCI EM equity overweight vs. an equally weighted basket of S&P500 and MSCI Europe rather than MSCI World. In this way we remove an implicit underweight on Japanese equities.

Long-Short Equity Portfolio

• OW MSCI EM vs. S&P500 and MSCI Europe (★★★) We maintain our preference for EM vs. DM equities for the reasons mentioned above. But we prefer to focus the short leg on the US and Europe rather than MSCI World

Global Asset Allocation Global Markets Outlook and Strategy 02 July 2014

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as the recent momentum in Japanese equities and the prospect of further government policy actions make an implicit Japanese equity underweight rather unattractive.

• OW J-REITs (TSEREIT) vs. TOPIX (**) REITs have outperformed the TOPIX YTD but this trade has lost some momentum recently. We still maintain our preference for REITs on further upside to a rice in route this work. Low IGP winds have been

maintain our preference for REITs on further upside to a rise in rents this year. Low JGB yields have been supporting strong sales and hence REIT prices. Given that our analysts expect reflation in real estate in Japan this year, this should benefit JREITs in H2.

Keep OW in MSCI EM Asia within EM but reduce (★)

Asia continues to be the region where we have the highest conviction over the medium term within EM as continued economic, policy and political uncertainty do not bode well for the EMEA or Latam regions, in our view. The Chinese manufacturing PMI increased to 51 in June, a fourth consecutive increase, which should support Chinese and Asian equities more broadly. Further, our EM strategists expect that, as Asian growth accelerates, EPS should follow and the 1H14 compression in risk premiums would continue. A risk for this trade is a further spike in oil prices given that Asian countries are predominantly oil importers. As a result we reduce the size of this trade for the near term.

Take profit on OW in Italy vs. Germany and shift to OW DAX vs. SX5E (★★)

We closed our OW in peripheral vs. core euro area equities (i.e. Italy vs. Germany, see J.P. Morgan View, Jun 20th) on the basis of the loss in momentum coupled with overstretched valuations. We believe that the risk reward for DAX has improved and now recommend going long DAX relative to Eurostoxx50. Not only have DAX earnings revisions turned positive, the index is now trading at amongst the lowest P/E multiples across the Euro area countries. The DAX is also a global cycle play with 57% of the market cap weight in cyclical sectors on which we are bullish. And it is more exposed to a pick up in activity in EM where we are more positive. A decline of the euro to 1.30EUR/USD by year-end, as projected by our FX strategists, should help export biased DAX companies (see Mislav Matejka and team).

• Open long Euro area (MSCI EMU Small cap) vs. US (RTY) and UK (FTSE 250) small caps (★★)
We see more value in small caps in the Euro area than in the US or the UK. SMid-Caps in the US and the UK are now trading at peak multiples. Euro area SMid-Caps are trading on an average P/B multiple of 2.32x vs.

3.60x of their US and 3.03x of their UK peers. In comparison, the historical peak multiple was 2.95x for EMU and 3.26x and 3.19x for the US and the UK, respectively. This indicates UK/US Smids are trading at a premium to their Euro area counterparts.

- Further, our European equity strategists are underweight UK equities based on a more defensive weight of the index as well as a high correlation with commodities.
- Using momentum to trade US equity sectors. OW
 US Technology against Telecom (*)

A momentum strategy on US equity sectors, which OW the sector with the highest return and UW the sector with the lowest return over the past 11 months, is currently favoring US Technology vs. Telecom. This sector momentum strategy has been flat YTD.

• Close OW Banks within the Euro area

Our OW in euro area banks via SX7E vs. SX5E suffered over the past month with news of bank litigation. Given uncertainty regarding further litigation against European banks we prefer to tactically exit this trade.

• OW Semiconductors within the US (★★★)

We remain constructive on Semiconductors in the US as the fundamentals continue to improve in H2 and as valuation metrics remain relatively balanced (group currently trading at 13x forward EPS estimates versus historical range of 12-15x). The demand environment is setting up for a seasonal return to growth in H2 with potential for upside, as improved macro conditions drive higher consumer spending and capex. Business conditions in the semiconductor sector continue to improve as communications, automotive and industrial end markets remain healthy. Additionally, production dynamics and supply side fundamentals remain relatively disciplined (i.e. inventories, leadtimes, and manufacturing capacity expansion). We expect a continued focus on profitability improvements and return of capital to shareholders from the US semicap universe.

- Over the longer term, we expect continued strength in industrial and automotive sectors and signs of improvement in service providers (See Semiconductor Equipment, H. Sur et al., Jul 1).
- OW Cyclical vs. Defensive sectors globally (★)
 Our trading rule for Cyclical vs. Defensive equity sectors, which is based on the 2-month change of the global PMI, has turned positive for Cyclical sectors supporting this trade. The J.P. Morgan global PMI rose 0.6 points in June to 52.7. The PMI has bounced back following a pause in April as the VAT hike hit Japan's PMI.

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Figure 3: Ranks of the equity markets of different countries based on 3 signals

1 denotes highest ranking, 16 denotes lowest ranking. The darker the color the lower the ranking. Last row shows the average ranking across the 3 signals: 2-month changes in manufacturing PMIs, 3-month changes in currencies and Price-to-Cash flow as value signal; The lower the reading, the more attractive the equity market of that particular country is.

	Ranking	(highest is 1,	lowest is	s 16)												
	US	Euro area	UK	Japan	Canada	Australia	Swiss	China	Korea	Brazil	Taiwan	HK	Sweden	S. Africa	India	Russia
2m PMI increase	3	14	8	2	6	6	16	1	15	11	4	10	12	13	7	5
4m FX decline	5	3	10	7	12	15	4	2	14	16	9	6	1	8	11	13
Price-to-Cash Flows	7	13	6	9	5	4	10	3	15	2	12	11	8	16	14	1

Source: JP Morgan

 Systematic global equity country model favors China, Sweden, Russia vs. Switzerland, Brazil, South Africa (*)

Our systematic country model for allocating between 16 major equity markets globally across both DM and EM is based on 3 signals: price-to-cash flows, changes in exchange rates over the past 4 months, and changes in manufacturing PMIs over the past 2 months.

- This model currently favors China vs. Switzerland (PMI signal), Sweden vs. Brazil (FX signal) and Russia vs. South Africa (P/CF signal) (see Figure 3).
- Last month, our country model pointed to OW China and Russia vs. South Africa and India. We lost 1.55% on this as all the signals were within EM and India, and Brazil rallied more than China and Russia (see individual signal performance in tables 1-3).

Table 1: Performance of systematic equity country model PMI signal

	Country		Performanc	е	Stratergy
Period	Long	Short	Long	Short	Overall
Oct-13	Sweden	South Africa	-0.5%	1.6%	-2.1%
Nov-13	Australia	South Africa	-5.8%	-5.8%	-0.1%
Dec-13	Australia	Brazil	-0.3%	-1.9%	1.6%
Jan-14	US	Russia	-3.4%	-6.5%	3.0%
Feb-14	Euro area	Australia	7.6%	6.8%	0.8%
Mar-14	Switzerland	Canada	1.3%	2.1%	-0.8%
Apr-14	US	Taiwan	-0.7%	1.2%	-1.9%
May-14	Sweden	Japan	0.5%	3.9%	-3.4%
Jun-14	China	South Africa	1.4%	3.6%	-2.2%
				Sum	-4.9%

Source: J.P. Morgan

Table 2: Performance of systematic equity country model FX signal

	Country		Performand	e	Stratergy
Period	Long	Short	Long	Short	Overall
Oct-13	India	UK	9.5%	3.4%	6.1%
Nov-13	India	Korea	-2.3%	-1.2%	-1.1%
Dec-13	South Africa	UK	2.0%	3.8%	-1.7%
Jan-14	Japan	India	-8.6%	-4.5%	-4.1%
Feb-14	South Africa	China	10.2%	-1.2%	11.4%
Mar-14	Russia	UK	2.8%	-2.2%	5.1%
Apr-14	Russia	Brazil	-5.0%	2.9%	-7.9%
May-14	Russia	Brazil	13.5%	-2.6%	16.1%
Jun-14	China	Brazil	1.4%	4.7%	-3.3%
				Sum	20.5%

Source: J.P. Morgan

Table 3: Performance of systematic equity country model P/CF signal

	Country		Performance		Stratergy		
Period	Long	Short	Long S	Short	Overall		
Oct-13	Euro area	India	4.4%	9.5%	i	-5.0%	
Nov-13	Euro area	India	-0.4%	-2.3%)	1.9%	
Dec-13	Euro area	India	3.2%	1.3%	1	1.9%	
Jan-14	Euro area	India	-3.0%	-4.5%)	1.5%	
Feb-14	Euro area	India	7.6%	5.0%	,	2.6%	
Mar-14	Euro area	South Africa	2.4%	5.6%)	-3.2%	
Apr-14	Russia	South Africa	-5.0%	2.5%	,	-7.5%	
May-14	Russia	South Africa	13.5%	-1.3%)	14.8%	
Jun-14	Russia	India	3.3%	2.5%	,	0.8%	
			5	Sum		7.8%	

Source: J.P. Morgan

Long-Only Equity Portfolio

In this section we construct a long-only portfolio among the biggest and most liquid equity ETFs by incorporating our tactical views. This is different from the previous section where the focus is on long-short trade ideas, many of which are not accessible to long-only investors. But similar to the previous long-short equity portfolio, the sizes of the long only ETF trades are mostly a reflection of our confidence and do not take into account the correlations between different countries and sectors.

Our long-only portfolio selects among the 100 biggest equity ETFs by AUM. Table 5 shows the indices tracked by the 100 biggest equity ETFs along with the AUM.

Our benchmark long only equity portfolio is the universe of MSCI AC World equities. Deviations from this neutral or benchmark allocation of different countries or sectors generate different tracking errors. Table 4 shows these deviations along with tracking errors. The higher the tracking error, the higher the conviction we attach to a particular trading theme. 1% tracking error denotes low confidence, 2% denotes medium confidence and of 4% denotes high confidence.

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Our allocation to equities focuses on sectoral and regional trades. The long-only equity portfolio is shown in Table 4. It uses liquid equity ETFs for transparency and simplicity in implementation.

Our main trading themes are OW EM via MSCI EM, OW the US via the S&P500/S&P Technology ETFs and OW Japan via J-REITs. In total, the tracking error of our recommended long-only is 3.7%.

Table 4: Recommended Long-Only Equity Portfolio

Asset	Active allocation
S&P500	40%
S&P500 IT	5%
EMU	20%
Japanese REITs	20%
EM	15%
Tracking error	3.7%

Source: J.P. Morgan

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Table 2: Indices tracked by the 100 biggest ETFs along with the total AUM invested in these ETFs

Equity Index	AUM (\$bln)	Exchange	Region
S&P 500 Index	263.5	NYSE Arca	United States
M SCI Emerging Markets Index	95.7	NYSE Arca	International
M SCI EAFE Index	83.0	NYSE Arca	International
Nasdaq 100 Index	43.4	NASDAQ GM	United States
M SCI US Broad Market Index	43.3	NYSE Arca	United States
Nikkei 225 Index	42.2	Tokyo	Japan
S&P Mid Cap 400 Index	38.6	NYSE Arca	United States
TOPIX Index	36.1	Tokyo	Japan
M SCI Europe Index	32.7	NYSE Arca	European Region
Euro Sto xx 50 Index	28.3	Xetra ETF	Eurozone
Russell 2000 Index	26.2	NYSE Arca	United States
Russell 1000 Growth Index	23.9	NYSE Arca	United States
Russell 1000 Value Index	23.2	NYSE Arca	United States
DAX Index	23.2	Xetra ETF	Germany
M SCI REIT Index	23.1	NYSE Arca	United States
Russell 1000 Index	19.8	NYSE Arca	United States
Mergent Dividend Achievers Select Index	19.5	NYSE Arca	United States
M SCI Japan Index	18.6	NYSE Arca	Japan
S&P Financial Select Sector Index	18.6	NYSE Arca	United States
DJ Select Dividend Index	18.6	NYSE Arca	United States
S&P IT Select Sector Index	17.9	NYSE Arca	United States
M SCI US Prime Market Growth Index	14.3	NYSE Arca	United States
M SCI US Prime Market Value Index	14.1	NYSE Arca	United States
S&P Small Cap 600 Index	13.8	NYSE Arca	United States
S&P HY Dividend Aristocrats Index	12.8	NYSE Arca	United States
S&P Energy Select Sector Index	12.7	NYSE Arca	United States
FTSE All-World ex-US Index	12.5	NYSE Arca	International
Hang Seng Index	12.1	Hong Kong	Hong Kong
S&P/TSE 60 Index	11.8	Toronto	Canada
DJ Industrial Average Index	11.6	NYSE Arca	United States
M SCI All Country World Index	10.9	NASDAQ GM	Global
S&P Industrial Select Sector Index	10.6	NYSE Arca	United States
WisdomTree Japan Hedged Equity Index	10.5	NYSE Arca	Japan
S&P Health Care Select Sector Index	10.1	NYSE Arca	United States
S&P 500 Growth Index	9.9	NYSE Arca	United States
Alerian MLP Infrastructure Index	9.2	NYSE Arca	United States
M SCI US Small Cap 1750 Index	8.7	NYSE Arca	United States
FTSE High Dividend Yield Index	8.2	NYSE Arca	United States
S&P 500 Value Index	7.8	NYSE Arca	United States
M SCI US M id Cap 450 Index	7.8	NYSE Arca	United States

Conti	AUM (\$bln)	Exchange	Region
S&P Equal Weight Index	7.8	NYSE Arca	United States
M SCI World Index	7.4	London	Global
AMEX Gold Miners Index	7.2	NYSE Arca	Global
FTSE/Xinhua China A50 Index	7.2	Hong Kong	China
S&P Utilities Select Sector Index	7.1	NYSE Arca	United States
FTSE 100 Index	7.0	London	United Kingdom
Russell Mid Cap Value Index	6.8	NYSE Arca	United States
S&P Consumer Staples Select Sector Index	6.6	NYSE Arca	United States
Russell 2000 Value Index	6.1	NYSE Arca	United States
Russell 2000 Growth Index	5.9	NYSE Arca	United States
Russell 3000 Index	5.8	NYSE Arca	United States
S&P Materials Select Sector Index	5.5	NYSE Arca	United States
M SCI Germany Index	5.5	NYSE Arca	Germany
Nasdaq BioTechnology Index	5.3	NASDAQ GM	United States
S&P Consumer Discretionary Select Sector Index	5.1	NYSE Arca	United States
M SCI US Prime Market 750 Index	5.0	NYSE Arca	United States
DJ U.S. Real Estate Index	5.0	NYSE Arca	United States
Russell Mid Cap Growth Index	4.9	NYSE Arca	United States
M EXB OL Index	4.8	M exico	M exico
DJ Wilshire Ex-US Real Estate Index	4.8	NYSE Arca	International
S&P 100 Index	4.8	NYSE Arca	United States
FTSE/Xinhua China 25 Index	4.8	NYSE Arca	China
M SCI B razil Index	4.7	NYSE Arca	B razil
S&P Mid Cap 400 Growth Index	4.7	NYSE Arca	United States
Euro Sto xx 600 Index	4.7	Xetra ETF	European Region
M SCI So uth Ko rea Index	4.5	NYSE Arca	South Korea
CAC 40 Index	4.3	Euronext Paris	France
S&P Mid Cap 400 Value Index	4.3	NYSE Arca	United States
M SCI United Kingdom	4.2	NYSE Arca	United Kingdom
M SCI US Small Cap Value Index	4.2	NYSE Arca	United States
FTSE China A50 Index	4.1	Hong Kong	China
Morningstar Dividend Yield Focus Index	4.0	NYSE Arca	United States
S&P 500 Low Volatility Index	4.0	NYSE Arca	United States
KOSPI 200 Index	4.0	KSE	South Korea

Equity Index - out of Top 100 ETF	AUM (\$bln)	Exchange	Region
DJ US Select Telecommunications Index	0.6	NYSE	United States

Source: J.P. Morgan. Note: AUM as of July 2, 2014.

Commodity Strategy

- Upgrade commodities to OW on attractive carry, rebounding manufacturing data in China, UW investor positions and supply risks in energy.
- Stay OW oil markets as a hedge against a supply disruption and attractive carry but switch long in Brent into a long in the GSCI energy index on a better roll yield.
- Stay long gasoline vs. heating oil on relative supply conditions.
- Stay long sugar on weather risks.
- Keep long copper on continued improvement of Chinese demand.

Commodities are up around 3% since last *GMOS*, with energy and base metals up 4% and 7%, respectively, offsetting a 10% fall in agriculture. Fears of a supply disruption in Iraq pushed oil prices higher, while better Chinese activity data supported metals.

We have been **UW commodities** vs. credit and equities for the past three years, largely on weaker demand from EM and especially China as well as rising supply in many commodity markets. Over that period, commodity excess returns have been negative and investor interest in commodities has waned (Figure 1). According to data from Barclays, commodity assets under management across exchange-traded products (ETPs), commodity linked index products and MTNs have fallen from a peak of \$430bn in 2012 to around \$320bn at present. About a third of this decline was due to outflows from gold ETFs.

We moved our commodity allocation to OW in the *J.P. Morgan View*, Jun 13, and we maintain it. A number of major commodity futures curves are now in steep backwardation (downward sloping), offering very attractive carry. Supply is threatened in oil markets, inventories are low by historical standards, and Chinese activity data appear to have bottomed.

The NBS Chinese manufacturing PMI has now risen for four consecutive months and our China economist has revised up his Q2 GDP growth forecast from 6.8% saar to 7.2% saar. Targeted policy support for commodity intensive sectors like infrastructure is also supportive, especially for base metals. In fact, copper is up 6% over the last month. We have been **long copper** since early April (*GMOS*, Apr 9) as we thought the sell-off in March was overdone and our metal analysts were telling us there was strong physical

Figure 1: Long-only investment inflows into commodities Includes ETPs, commodity linked index products and MTNs.

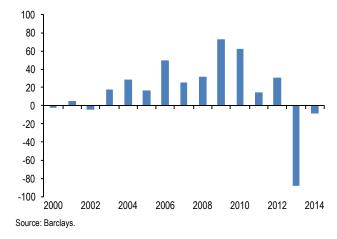


Figure 2: Chinese manufacturing PMI base metal trading rule
Excess return index. The rule is long the GSCI base metals index when the
2-month change in the Chinese manufacturing PMI is positive and short
when the 2-month change is negative.



demand from China, outside the usual construction and housing related sectors. As we have shown in past *GMOS*, **the Chinese manufacturing PMI has been a profitable indicator for trading base metals** (Figure 2). A rule that is long the GSCI industrial metals index when the two-month change in the PMI is positive and goes short when the two-month change is negative, has produced a return to risk of 0.9 with a success rate of 55%, rebalancing monthly since 2004.

Another factor that has led investors to lower or eliminate their commodity allocation is the **correlation to other asset classes in their portfolio**. Commodities have historically been considered a good diversifier because of their consistently low correlation to equities and bonds. From 1988 to 2007, the correlation between weekly returns on the GSCI Light Energy index and the MSCI AC World index



was 0.03 and vs. the Barclays US aggregate bond index was -0.06. Following the crisis in 2008, the correlation to equities jumped to around 0.80 and remained elevated until very recently. This year, it has fallen to around 0.13, within its historical range for the first time since before the financial crisis (Figure 3).

This fall is likely due to a combination of falling macro risks as we leave the crisis further behind and rising idiosyncratic commodity risks that are distinct from the risks driving equities. Oil markets have been increasingly supply driven over the last few years due to production losses in Libya, sanctions on Iran and now the threat of an outage in Iraq. In base metals, copper is trading almost entirely on expectations around Chinese growth, while nickel and aluminum are both driven by local supply issues. Agriculture markets are also trading completely independently of other commodities, largely on changes in weather expectations and the resulting implications for supply. We see no reason for this to change and **so expect the correlation to stay low.**

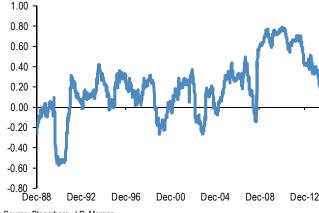
We continue to focus our commodity exposure on energy and copper. Oil production has been curtailed in Libya and is being threatened in Iraq. On our estimates, OPEC could make up for lost Iraqi production, but it would leave virtually no spare capacity. We are also just entering hurricane season and oil inventories are low, after having been depleted in the unusually cold winter. We thus think risks are biased to the upside for oil and we stay long. We switch our long in Brent into a long in the GSCI energy index as the combination of oil and oil products offers more attractive carry, while still providing a hedge against any production outage.

We keep our short in Nickel as the recent rally on the back of the Indonesian export ban has pushed prices to a level that should lead Chinese domestic inventories to be made available to the market (*Metals Weekly: Nickel prices likely to correct further*, Natasha Kaneva et al., May 27).

In **agriculture**, the probability of an El Niño materializing this year remains high. An El Niño is likely to be bad for crops in Asia and South America and may result in a weaker Indian monsoon, which would likely have a negative impact on the Indian sugar and cotton crops. It also has the potential to hit Brazilian and Thai sugar production later on; thus it would be a very bullish event for the sugar market. **We stay long in Mar-15 sugar.**

Figure 3: Commodity equity correlation

Rolling 52-week correlation of weekly returns on the GSCI Light Energy excess return index and MSCI AC World.



Source: Bloomberg, J.P. Morgan

Long-short commodity trades

Switch long Brent into long GSCI energy (**)
 Oil and product forward curves are steeply
 backwardated, offering attractive roll returns.
 Additionally, we keep a long energy exposure as a
 hedge to our long risk positions elsewhere in the
 portfolio from any production outage in the Middle East.

Long copper (★)

Copper prices have rallied since we went long in early April and we think they have further to go. Chinese manufacturing data have surprised on the upside, with the PMI now rising for four consecutive months.

• Long Sep-14 gasoline vs. Sep-14 heating oil (*)
Heating oil supply is likely to increase in the coming months as a large refinery in Saudi Arabia comes on line. In contrast, gasoline physical demand has picked up sharply over the last month and we expect this to continue. Inventories are also falling and relatively low and the shape of the two forward curves means this trade earns over 1% a month in roll.

• Short nickel (*)

Nickel prices have rallied almost 40% YTD, following an export ban imposed by Indonesia. Although this has tightened the supply demand balance, we think the rally has gone too far and there are still relatively large inventories in China that will likely now be made available to the market.

• Long Mar-15 sugar (★)

The rising risk of an El Niño this year is creating downside risk for sugar crop yields in Brazil, India and Thailand. We go long.

Long-only commodity portfolio

We complement our long-short portfolio with a portfolio of long-only commodity trades. This portfolio takes active positions in commodity futures. The aim is to produce an active return in excess of the return on the GSCI Light Energy index. The active allocations are based on the rationale laid out above in the commodity strategy section. The tables and figures below show the current allocations at a commodity and a commodity sector level.

This month in the long only commodity portfolio we maintain our focus on oil but we shift from Brent to the GSCI energy index as it has a more attractive roll yield. We move some weight from energy to copper given the improvement in the global and especially the Chinese PMI.

The tracking error of this active portfolio is 8% annualized, based on the past 6-months of daily returns.

Figure 4: Commodity long only allocations

Asset	Active allocation			
Energy	60%			
Copper	40%			
Tracking error	8%			

Source: J.P. Morgan

Figure 5: Commodity long-only portfolio performance Excess returns. Alpha is the active return minus the benchmark return.

Tracking error is ex-ante annualized. The benchmark is the GSCI light energy index.

GMOS date	Benchmark	Active portfolio	Alpha	Tracking error
2-Aug-12	4.0%	4.7%	0.7%	2.6%
6-Sep-12 -0.4%		-0.6%	-0.3%	2.1%
2-Oct-12	-4.5%	-5.4%	-0.6%	2.1%
7-Nov-12	1.3%	2.1%	0.8%	4.5%
5-Dec-12	-1.7%	-0.4%	1.1%	5.4%
9-Jan-13	3.1%	3.6%	0.5%	5.2%
7-Feb-13	-4.2%	-3.5%	0.8%	1.9%
6-Mar-13	-0.6%	-0.4%	0.0%	1.1%
4-Apr-13	-0.7%	-0.4%	0.3%	2.1%
1-May-13	2.1%	1.8%	-0.3%	2.0%
5-Jun-13	-2.4%	-1.4%	1.6%	3.0%
27-Jun-13	0.8%	0.2%	-0.9%	3.4%
7-Aug-13	4.5%	4.6%	0.1%	3.4%
3-Sep-13	-1.3%	-1.4%	-0.7%	3.0%
3-Oct-13	-3.3%	-3.1%	0.3%	2.6%
6-Nov-13	0.6%	2.0%	1.4%	5.0%
4-Dec-13	-1.5%	-2.6%	-1.1%	5.0%
8-Jan-14	1.9%	1.3%	-0.6%	10.7%
5-Feb-14	6.2%	5.4%	-0.8%	4.3%
5-Mar-14	6.3%	4.7%	-1.6%	4.5%
9-Apr-14	0.5%	0.8%	0.4%	2.5%
7-May-14	-1.9%	-3.0%	-1.1%	2.8%
4-Jun-14	1.3%	4.5%	3.2%	10.0%
2013	-2.0%	2.3%	4.3%	
YTD	14.2%	13.8%	-0.4%	
Since inception	10.0%	13.6%	3.1%	

Source: J.P. Morgan

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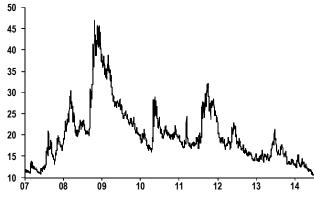
Volatility Strategy

- Stay with an overall short vol bias by selling 3-month straddles on CDX.HY.
- Open UK rate vol theme by buying front-end 2Y gamma vs. 10Y gamma.
- Keep long GBP vs. EUR gamma theme but switch from the 5Y sector to greens i.e. buy Dec14 2Y Short Sterling midcurve straddles versus selling a gamma equivalent amount of Dec14 2Y Euribor midcurve straddles.
- Keep US Credit vs. Rate Skew theme: long August expiry 25-delta payers and short 25-delta receivers on 5Y USD interest rate swaps versus the opposite structure in CDX.IG.
- Open European equities versus US high-grade theme: sell CDX.IG December payers to fund DAX OTM calls to position for a large upside event in European equities
- Keep Japanese relative value theme: take profit on Sep 14 USD/JPY put funded with a Nikkei put, and roll to 3M.
- Open long in Brent vs. Copper vol as we see upside risks to the former due to geopolitical developments.
- For investors looking for cheap tail risk hedges we continue to recommend four previous trades: 1) Long forward vols in G10 FX via FVAs. 2) Gold call contingent on S&P500. 3) 1y SEK/JPY put 10% OTMS and 4) 9m Dual At Expiry Digital EUR/USD down, Eurostoxx down, strikes 2% and 5% OTMS, respectively to monetize the drop in EUR/USD vs. Eurostoxx correlations.
- Implied volatilities continue to grind lower. Our crossasset implied vol index shown in Figure 1 has posted a new low for the current cycle. Implied volatilities declined across all asset classes over the past month as shown in Figure 2.
- We maintain a short vol bias focusing on credit. Credit vols look more elevated than other asset classes not only vs. their range over the past year (see Table 1) but also vs. pre-crisis levels. In fact Table 1 shows that credit vols are the only ones within the 25%-75% percentile ranges over the past year. In addition, we note that credit offers the highest vol risk premia among asset classes; i.e. the highest implied to realized ratios, as shown in the last column of Table 1.

In this section, we focus on medium-term asset allocation across equity volatility, fixed income volatility, FX volatility, and commodity volatility. More detailed recommendations are presented in our sister publications, Equity Derivatives Markets Weekly Outlook, US Fixed Income Markets Weekly, Global Fixed Income Markets Weekly, FX Markets Weekly, Credit Markets Outlook and Strategy, and CD Player. We have argued previously that volatility can be viewed and traded much like any other asset class (see Volatility as an Asset Class, Terry Belton et al., and Variance Swaps, Marko Kolanovic et al). Declaring volatility an asset class is not obvious. The main asset classes around which we allocate strategically and tactically are stocks, bonds, credit, and commodities. FX is used largely for tactical allocation. Each of these provides returns in compensation for a distinct and identifiable type of risk. One aspect of risk common to each of these asset classes and around which investors can position is the high-frequency volatility of their prices. Many market participants indeed take views and positions on how volatile each of these asset classes will be in the future. One can, therefore, consider volatility a tactical asset class. The trades below reflect our top-down views on future asset class volatilities, relative to what is priced in option markets. We pay more attention to relative value volatility trades across asset classes.

Figure 1: Implied vol across 5 asset classes

Weighted average of 12 implied vols across 5 asset classes. We apply a 20% weight on each of the five asset classes. The 11 implied vols used were: V2X Index, VIX Index, VNKY Index, JPMVXYG7 Index, CI1 Comdty, HG1 Comdty, GC1 Comdty, C 1 Comdty, iTraxx, CDX.IG, Euro 10y swap rate, US 10y swap rate.



Source: Bloomberg, J.P. Morgan

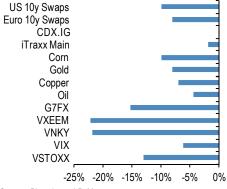
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Figure 2: Implied vol changes over the past month

Proportional change in implied vols in % since last publication on June 4th

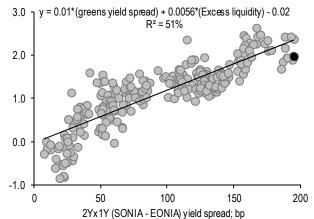


Source: Bloomberg, J.P. Morgan

- Our outright short position in 3-month straddles on iTraxx Senior Financials produced a small profit, 0.30% of notional. Given still elevated vol carry we keep a short credit vol stance but prefer to shift the exposure from iTraxx Senior Financials to CDX.HY where the implied to realized volatility ratio is higher at x1.7. That is we recommend selling 3-month straddles on CDX.HY index.
- Keep Credit vs. Rate Skew theme: stay long 25-delta 3Mx5Y USD swaption risk reversals versus CDX.IG risk reversals. We first recommended this trade in our April Cross Asset Volatility Strategy publication given the steep skew in CDX.IG and considerably flatter skew in the US rates market, and last month recommended rolling into August expiry options. Credit skew has flattened somewhat, but remains rich on a historical basis; rates skew, in the meantime, remains too flat both on a historical basis and relative to fair value (see discussion in Interest Rate Derivatives, US Fixed Income Markets Weekly, 6/27/14), in our view. Therefore, we continue to like this theme and recommend staying long August expiry 25-delta payers and short 25-delta receivers on 5Y USD interest rate swaps versus the opposite structure in CDX.IG (strikes 75bp/60bp on CDX and 2.08%/1.61% on 3Mx5Y swaptions).
- Keep Euro vs. UK rate theme: We have been recommending long GBP gamma vs. EUR gamma in the 5Y sector over the past few months. The ATMF implied volatility spread (using 6M options) has increased 0.3bp/day since we first recommended this trade. However, fixed strike and fixed dated implieds have declined to 0.7bp/day. This dynamic has been due to a 50bp decline in EUR swap rates which has lowered the ATMF volatility but the fixed strike implieds have

Figure 3: Hold long GBP vs. EUR gamma theme; close trade in 5Y and initiate long greens gamma in Short Sterling vs. Euribor gamma

Second greens (Short Sterling – Euribor) midcurve implied volatility spread regressed against 1) 2Yx1Y (SONIA – EONIA) yield spread and 2) 10D MA of EUR excess liquidity; past 1Y; bp/day



Source: Bloomberg, J.P. Morgan

not declined proportionately as EUR payer skew has richened. Consequently, our trade has suffered losses despite the Carney-induced volatility in the GBP market. Despite this, we remain convinced that GBP gamma will outperform EUR gamma over the medium term and continue to prefer such trades. We switch our current trade (these options are only a month away from expiry) from the 5Y sector into greens expressed via options on the exchange in the greens part of the curve; buy Dec14 2Y Short Sterling midcurve straddles versus selling a gamma equivalent amount of Dec14 2Y Euribor midcurve straddles. This trade combines our bullish front-end GBP gamma and bearish front-end EUR gamma view (see 2014 Mid-year outlook). Finally, our view of a spread widening (GBP – EUR) in the greens part is also supportive of higher implied volatility spread (Figure 3).

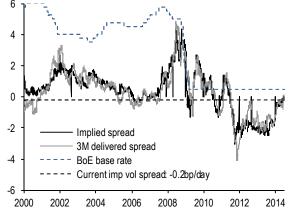
Open UK rate vol theme, buy front-end gamma vs. 10Y gamma: The Bank of England's policy path and the communication surrounding the onset and the subsequent pace of rate hikes will be the primary driver of volatility on the GBP curve over the next few months, in our view. Historically, the onset of central bank hiking had resulted in an increase in implied volatility across the volatility surface during both these episodes. However, outright long gamma positions were not necessarily profitable during these episodes as delivered volatility, although increased, stayed below implieds (see section on United Kingdom, Global Fixed Income Markets Weekly, 27 June 2014 for more details). Nevertheless, buying front-end gamma vs.

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intermediate tail gamma Figu

Figure 4: Buy front-end gamma versus intermediate tail gamma (6Mx2Y – 6Mx10Y) implied vol spread, 3M delivered volatility spread*, and BoE base rate: bo/day



* Defined as 3M delivered volatility of 3Mx2Y GBP swap yield – 3M delivered volatility of 3Mx10Y GBP swap yield

Source: Bloomberg, J.P. Morgan

long end (i.e. buying 6Mx2Y vs. 6Mx10Y) has been **profitable**, on average, during these hiking cycles – a trend we expect to continue as volatility continues to move towards the front-end of the curve. Figure 4 shows the implied volatility spread (defined as 6Mx10Y - 6Mx2Y implied volatility) and 3M delivered volatility spread (defined as 3M delivered volatility of 10Y swaps - 3M delivered volatility of 2Y swaps). As we can see, implied volatility spread has increased recently, but is still below the lows of the previous hiking cycles. Similarly, the delivered volatility spread in the previous hiking cycles was generally above current levels of implied volatility spread, suggesting limited downside to this trade. Therefore, we would recommend buying front-end gamma (6Mx2Y) versus intermediate gamma (6Mx10Y).

Open European Equities vs. US HG Credit theme: sell CDX.IG December 65bp payer to fund DAX OTM calls struck at 10,500. In the current low vol environment and expected pick-up in growth, we expect equities to outperform credit. Furthermore, the difference in the economic cycles should lead to Europe outperforming the US. The trade combines both views and takes advantage of the relatively high CDX implied volatility (with an implied to realized ratio at about 1.5x, close to a two-year high) and a lower European equity implied vol. Furthermore, while CDX.IG Series 22 is currently trading at 57bp, its level is expected to roll down the credit spread curve between now and December. Credit curves are steep and a 6m roll is worth about 7-8bp at the current levels. Also, the onthe-run index in December will be Series 23. Therefore,

Figure 5: USD/JPY dropped since inception of the conditional trade, while Nikkei rallied...

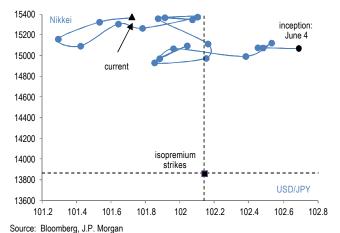
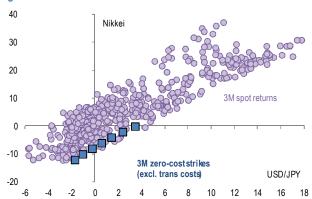


Figure 6: Nikkei vs. USD/JPY



Source: Bloomberg, J.P. Morgan

most investors will likely use Series 23 than Series 22 to hedge for risk in 4Q14.

Selling €100mm equivalent of CDX IG Dec 65bp payers gives a premium of €305,000. This can be used to purchase 439 DAX Dec 10,500 calls. We see this as an attractive way to position for a large upside event in European equities, while taking advantage of both the steep rolldown and expensive implied volatility in CDX IG.

• Take profit on Sep 14 USD/JPY put funded with a Nikkei put, and roll to 3M. The trade initiated at zerocost on June 4 returned 71bps PNL in just a month thanks to the combined rally in Nikkei (+2%) and drop in USD/JPY (-1.1%). See Figure 5 for the path followed by the two underlying since June 4th inception. The biggest contributor to PNL is the decay on the Nikkei put (+75bps), while the USD/JPY leg actually lost 4bps

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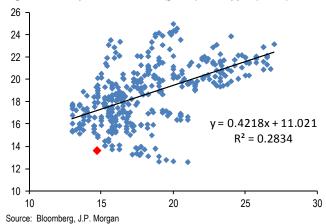
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mostly due to the fall in FX vols. The setup of rich Nikkei puts relative to USD/JPY puts remains intact (Figure 6), therefore we take profit on this unusual combination of outcomes for Nikkei and USD/JPY, and roll the position with fresh 3M strikes. We fix the strike on the short Nikkei put at 90% of spot as of July 2nd, which allows us to fund a USD/JPY put 1.5% OTMS.

- Open long in Brent vs. Copper vol as we see upside risks to the former due to geopolitical developments. Both vols spiked at the beginning of June but declined during the second half of the month. Geopolitical risks create upside for Brent oil price volatility in our mind, while Copper, which is more dependent on developments in China which are improving, should see further vol retracement from here. In addition, from a relative value point view, Brent vol seems too low vs. Copper vol based on a historical regression since the beginning of 2013 (Figure 7). Sell 3m straddles on Copper and buy 3m straddles on Brent oil, vega neutral with a ratio of 1:2.
- Jun-14 SX7E Calls funded by selling iTraxx Main Receivers expired at a loss: we previously (May 7th) recommended buying SX7E Jun-14 150 calls and funding the trade by selling iTraxx Senior Financials June 80bp receivers. On the iTraxx Fin Senior leg we lost €888,000 and only made €295,944 on the equity leg, given a total loss of €592,056. Litigation issues with European banks weighed heavily on this trade.
- TAIL RISK HEDGES: For investors who are long risky assets and look for <u>cheap tail-risk hedges</u> to a potential equity market correction, we continue to recommend three trades:
- 1) Monetize the drop in EUR/USD vs. Eurostoxx correlations by entering a 9M Dual At Expiry Digital EUR/USD down, Eurostoxx down, strikes 2% and 5% OTMS, respectively. The correlation between daily returns in EUR/USD and Eurostoxx, as well as with S&P500, has dropped to historical lows. Anecdotally, hybrids markets have seen good investor interest for structures, whereby the buyer is short correlation, typically betting for a ECB QE-fuelled rally in equities and a drop in EUR/USD. This cheapness in correlations is conducive to tail-risk strategies that play for a pickup in correlations and a combined rally in USD and drop in risky assets.
- 2) Long forward vols in G10 FX via FVAs where the cost of carry was minimal. In particular, the flatness in FX vol curves offers an efficient way to be long vol through FVAs. There is minimal cost with carrying this long term hedge. We hold a long basket of 9Mx3M FVAs in USD/NOK, USD/SEK, EUR/NOK, EUR/SEK, EUR/USD, GBP/USD, and EUR/JPY, as a long vega

Figure 7: 3m implied vol on Brent (y axis) vs. Copper (x-axis) in %



hedge against a move higher in vols. This position has been negatively impacted from the drop in vols near historical lows; our JPM VXY Global FX vol index has dropped to 5.4 at the end of June. But the position has suffered less than outright long positions in spot vols, and should have limited downside from current lows.

- 3) Long GLD calls contingent on SPX as a cheap tail risk hedge. A potential flight to quality episode should boost gold prices at the same time as equities come under pressure. However, markets are currently pricing in modestly negative (-10%) implied correlation between the two, and we recommend using this mispricing to fund a flight to quality hedge: buy 3-month 105% GLD calls contingent on a 2% decline in SPX for a premium of 45bp, or a roughly 55% discount to vanilla calls. Since the beginning of 2010, when equities fell more than 2% over a three month period GLD rallied more than 5% approximately two-thirds of the time (average gain of roughly 8%). Given the likelihood that the option will be exercisable if tail risk rises, and a significant discount to vanilla calls, such trades are currently attractive as a cheap hedge, in our view.
- 4) Long 1y SEK/JPY put. Although Equity vols have come off recently, FX vols remain nominally cheaper. Our JPM VXY Global FX vol index is close to 6.0 while VIX is above 12.0. Among the FX pairs exhibiting high correlation with equities, we had identified SEK/JPY as the most attractive pair to own a put on, as a proxy hedge for a drop in the S&P500 index. Indeed, the pair shows a consistent correlation with S&P500 returns, and the cost of a 1y put, with strike adjusted according to the beta of 1y returns with the S&P500 index, is among the cheapest across FX pairs. We recommend a 1Y SEK/JPY Put, strike 13.9 (=10% OTMS at spot ref 15.45).

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Table 1: Cross Asset Volatility Monitor - 3m ATM Implied Volatility (1y history) as of 1-Jul-14

This table shows the richness/cheapness of current implied volatility levels (red dot) against their 1 year historical range (thin blue bar) and the ratio to current realized volatility. Assets with implied volatility outside their 25th/75th percentile range (thick blue bar) are highlighted.

Asset	Current	Low	Low date	High	High date		Upside	Downside	Implied/realized volatility
S&P 500	10%	10%	20-Jun-14	17%	08-Oct-13	<u> </u>	7%	0%	1.7x
EuroSTOXX	14%	13%	20-Jun-14	21%	03-Jul-13	_ 	7%	1%	1.5x
Nikkei 225	16%	16%	26-Jun-14	30%	05-Jul-13	•	14%	0%	1.2x
Hang Seng	12%	12%	27-Jun-14	21%	03-Jul-13	•	8%	0%	1.3x
MSCI EM	15%	15%	01-Jul-14	26%	03-Jul-13	•	12%	0%	1.5x
Gold	13%	12%	27-Jun-14	24%	05-Jul-13	-	11%	1%	1.1x
Oil (brent)	14%	13%	06-Jun-14	25%	03-Sep-13	———	11%	1%	1.2x
Copper	15%	13%	08-Jan-14	25%	09-Jul-13		11%	2%	1.1x
DJ-UBS commodity index	8%	8%	23-May-14	14%	06-Sep-13	•	6%	0%	1.2x
EUR/USD	5%	5%	30-Jun-14	9%	03-Jul-13	<u> </u>	4%	0%	1.4x
USD/NOK	6%	6%	30-Jun-14	12%	11-Jul-13	<u> </u>	6%	0%	1.0x
USD/JPY	6%	6%	01-Jul-14	14%	03-Jul-13	•	9%	0%	1.6x
GBP/USD	5%	5%	12-Jun-14	9%	15-Jul-13	1	4%	0%	1.2x
USD/CHF	5%	5%	01-Jul-14	10%	11-Jul-13	•	5%	0%	1.3x
10y swaps	64	61	09-Apr-14	119	05-Jul-13	-	55	3	1.2x
10y Treasury futures	5%	4%	09-Apr-14	8%	05-Sep-13	+	3%	0%	1.1x
CDX IG	41%	30%	29-May-14	57%	05-Jul-13	—	15%	11%	1.5x
CDX HY	40%	31%	29-May-14	56%	05-Jul-13	—	16%	9%	1.7x
iTraxx	49%	36%	03-Jan-14	63%	02-Jul-13	—	15%	13%	1.4x

Source: J.P. Morgan, Bloomberg

Note: Swaps volatility is 3m 10y payer ATMF implied annualized BP vol and credit volatility is 3m 5y on-the-run ATM spread volatility. MSCI EM and Treasury futures are 3m implied vol from Bloomberg.

Definitions:

Low: Lowest closing level in the last 1y

Low date: Date the lowest closing level was reached (or the first time it was reached in the case of several identical low closing levels)

High: Highest closing level in the last 1y

High date: Date the highest closing level was reached (or the first time it was reached in the case of several identical high closing levels)

Graph: Shows the current level and the 25th/75th percentile relative to the 1y high/low

Upside: Implied return/volatility percentage points from current level up to the High (note: return is calculated as simple difference for spread products)

Downside: Implied return/volatility percentage points from current level down to the Low (note: return calculated as simple difference for spread products)

Implied/realized volatility: Current 3m implied volatility / current realized 3m volatility

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Risks of Common Option Strategies

Risks to Strategies: Not all option strategies are suitable for investors; certain strategies may expose investors to significant potential losses. We have summarized the risks of selected derivative strategies. For additional risk information, please call your sales representative for a copy of "Characteristics and Risks of Standardized Options." We advise investors to consult their tax advisors and legal counsel about the tax implications of these strategies. Please also refer to option risk disclosure documents.

Put Sale. Investors who sell put options will own the underlying asset if the asset's price falls below the strike price of the put option. Investors, therefore, will be exposed to any decline in the underlying asset's price below the strike potentially to zero, and they will not participate in any price appreciation in the underlying asset if the option expires unexercised.

Call Sale. Investors who sell uncovered call options have exposure on the upside that is theoretically unlimited.

Call Overwrite or Buywrite. Investors who sell call options against a long position in the underlying asset give up any appreciation in the underlying asset's price above the strike price of the call option, and they remain exposed to the downside of the underlying asset in the return for the receipt of the option premium.

Booster. In a sell-off, the maximum realized downside potential of a double-up booster is the net premium paid. In a rally, option losses are potentially unlimited as the investor is net short a call. When overlaid onto a long position in the underlying asset, upside losses are capped (as for a covered call), but downside losses are not.

Collar. Locks in the amount that can be realized at maturity to a range defined by the put and call strike. If the collar is not costless, investors risk losing 100% of the premium paid. Since investors are selling a call option, they give up any price appreciation in the underlying asset above the strike price of the call option.

Call Purchase. Options are a decaying asset, and investors risk losing 100% of the premium paid if the underlying asset's price is below the strike price of the call option.

Put Purchase. Options are a decaying asset, and investors risk losing 100% of the premium paid if the underlying asset's price is above the strike price of the put option.

Straddle or Strangle. The seller of a straddle or strangle is exposed to increases in the underlying asset's price above the call strike and declines in the underlying asset's price below the put strike. Since exposure on the upside is theoretically unlimited, investors who also own the underlying asset would have limited losses should the underlying asset rally. Covered writers are exposed to declines in the underlying asset position as well as any additional exposure should the underlying asset decline below the strike price of the put option. Having sold a covered call option, the investor gives up all appreciation in the underlying asset above the strike price of the call option.

Put Spread. The buyer of a put spread risks losing 100% of the premium paid. The buyer of higher-ratio put spread has unlimited downside below the lower strike (down to zero), dependent on the number of lower-struck puts sold. The maximum gain is limited to the spread between the two put strikes, when the underlying is at the lower strike. Investors who own the underlying asset will have downside protection between the higher-strike put and the lower-strike put. However, should the underlying asset's price fall below the strike price of the lower-strike put, investors regain exposure to the underlying asset, and this exposure is multiplied by the number of puts sold.

Call Spread. The buyer risks losing 100% of the premium paid. The gain is limited to the spread between the two strike prices. The seller of a call spread risks losing an amount equal to the spread between the two call strikes less the net premium received. By selling a covered call spread, the investor remains exposed to the downside of the underlying asset and gives up the spread between the two call strikes should the underlying asset rally.

Butterfly Spread. A butterfly spread consists of two spreads established simultaneously – one a bull spread and the other a bear spread. The resulting position is neutral, that is, the investor will profit if the underlying is stable. Butterfly spreads are established at a net debit. The maximum profit will occur at the middle strike price; the maximum loss is the net debit.

Pricing Is Illustrative Only: Prices quoted in the above trade ideas are our estimate of current market levels, and are not indicative trading levels.





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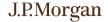
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