

Global Rates Outlook 2015

Thematic trades for the year ahead

US & EU Rates Strategy Teams

December 2014



DISCLOSURE APPENDIX AT THE BACK OF THIS REPORT CONTAINS IMPORTANT DISCLOSURES AND ANALYST CERTIFICATIONS.

Table of Contents - US

GLOBAL RATES STRATEGY

Helen Haworth, CFA
Co-Head of Global Rates
+44 20 7888 0757
helen.haworth@credit-suisse.com

Carl Lantz
Co-Head of Global Rates
+1 212 538 5081
carl.lantz@credit-suisse.com

EU RATES

Thushka Maharaj
+44 20 7883 0211
thushka.maharaj@credit-suisse.com

Marion Pelata
+44 20 7883 1333
marion.pelata@credit-suisse.com

Daniela Russell
+44 20 7883 7455
daniela.russell@credit-suisse.com

Florian Weber
+44 20 7888 3779
florian.weber@credit-suisse.com

US RATES

Ira Jersey, US Head
+1 212 325 4674
ira.jersey@credit-suisse.com

Carlos Pro
+1 212 538 1863
carlos.pro@credit-suisse.com

William Marshall
+1 212 325 5584
william.marshall@credit-suisse.com

Themes Explored & Trade Ideas	Slide
US Rates	4
Theme: Fed hikes and market liquidity	5
Theme: Global economic and policy divergence	6
Theme: Fickle market liquidity could increase volatility	7
Theme: Market to price for more aggressive Fed	8
EDM5-M6 steepener	9
2y2y risk/reversal	10
Long 2y TSY vs. 2y OIS	11
Long 5y5y TIPS Breakeven	12
UST 5s30s flattener	13

Table of Contents - Europe

Themes Explored & Trade Ideas	Slide
European Rates	14
Theme: Europe continues to muddle through	16
Theme: Duration near-term balanced then bearish	17
Theme: The hurdle to sovereign QE remains high	18
Short 5y5y HICP	19
Hedge: EUR 1y5y (or RXH5) payer spread	20
Theme: Front-end longs and cross-currency basis wideners	21
Receive EUR 2y1y (outright and versus USD)	22
Receive Jun-16 IMM Eonia	23
Receive SEK 2y1y	24
EURUSD 3y2y cross-currency basis widener	25
CHFUSD 1y1y cross-currency basis widener	26
Theme: Long-end flattening	27
EUR 10s30s flattener	28
CHF 15s30s flattener	29
Theme: Trade ranges in German ASW	30
Bund-Eonia ASW widener	31

Themes Explored & Trade Ideas	Slide
Theme: Periphery front-end cheap and curve steepeners	33
Long 3y Portugal	34
Long 2y Spain	35
SPGB 5s30s steepener	36
BTP 7s30s steepener	37
Theme: French economic performance remains weak	38
Short 10y France vs. 10y Germany	39
Long 2y BTP vs. 5y France	40
Theme: Trade ranges in core spreads	41
Sell 10y Austria vs. 10y Netherlands	42
Sell 10y Finland vs. 10y Netherlands	43
UK Rates	44
Theme: The US – UK – Euro “tug-of-war”	45
Theme: Conflicting forces facing gilts	46
GBP 1y1y vs. 2y1y steepener	47
UKT 10s30s flattener	48
Short 5y5y RPI	49
Short 10y UKT ASW	50

Table of Contents – Cross Market Ideas

Themes Explored & Trade Ideas	Slide
Cross Market Trade Ideas	51
Pay USD 2y1y versus either EUR 2y1y or BTP 2y	53
Long 5y5y TIPS Breakeven vs. RPI	54
Long Bund-Eonia vs. Gilt-Sonia ASW	55
Play the range in 10y GBP-EUR	56
Trade range in CHF-EUR 5y5y	57
Credit Suisse 2015 Interest Rate Forecasts	58
Trade Performance	59

US Rates

Thematic trade ideas:

- Whites/Reds ED steepener
- 2y2y risk/reversal
- Long 2-year Treasuries versus OIS
- Long 5y5y TIPS Breakeven
- UST 5s30s flattener

Theme: Fed hikes and market liquidity

- Shifting Fed hike expectations and debate about the pace of tightening should dominate market discussion in the first half of the year as the economy continues to expand with a fresh tailwind from the “oil tax cut”
- As the lift-off date is established (we expect June 2015), focus will shift to the pace of tightening; terminal rate assumptions are eventually challenged
- Foreign flows, retail redemption fears and reduced market liquidity will be key themes
- Periodic fixed income outflows with less elastic dealer balance sheets will likely yield periods of high volatility for bond markets



Market Impact

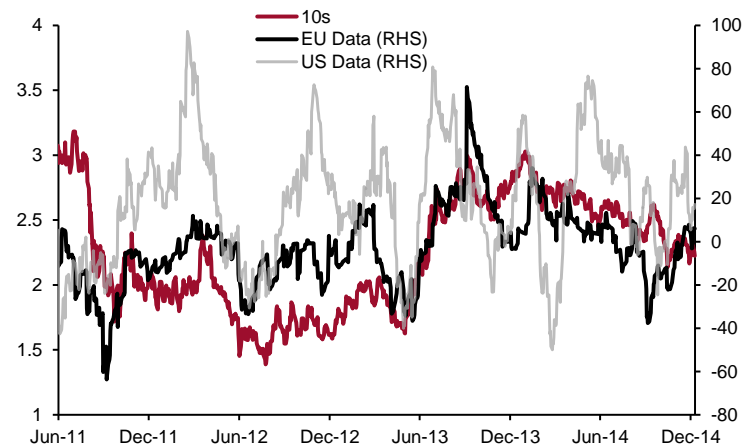
- Curve flattening will likely dominate market moves, with 3s and 5s leading sell offs initially, giving way to 2s as the leader when we enter the tightening cycle
- Oil should eventually find a new equilibrium; this suggests value is being created in TIPS. With forward breakevens already cheap, we think investors should start to build longs
- Volatility should finally begin to climb, with gamma's structural decline finally ending
- Wider swap spreads seen in the long end but short tenors remain at the whim of repo

Theme: Global economic and policy divergence

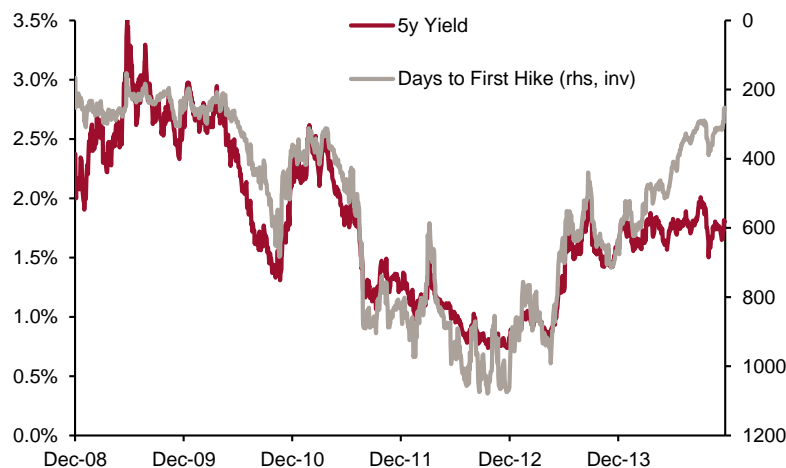
- We expect further policy and growth divergence in 2015 with the Fed hawkish and the ECB dovish
- The global economic environment should give the Fed room to hike starting in June, even as the ECB continues to ease



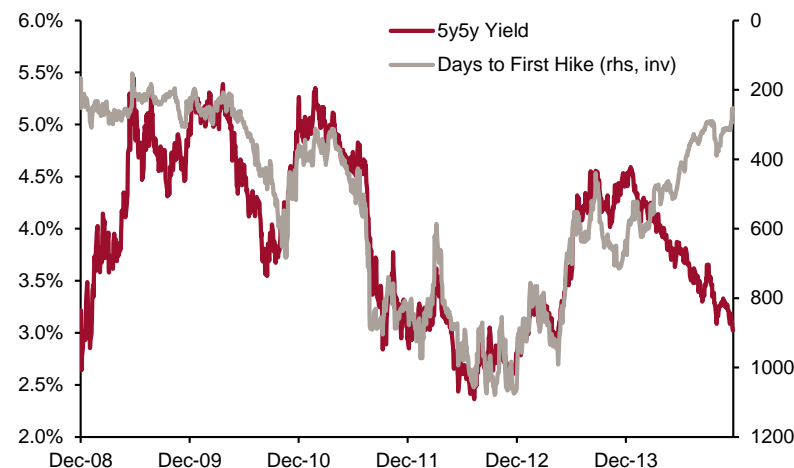
10yr UST more sensitive to EUR data than US data



5yr UST vs. Market Implied Days to first hike



5y5y vs. Market Implied Days to first hike



Source: Credit Suisse Locus, the BLOOMBERG PROFESSIONAL™ service

Theme: Fickle market liquidity could increase volatility

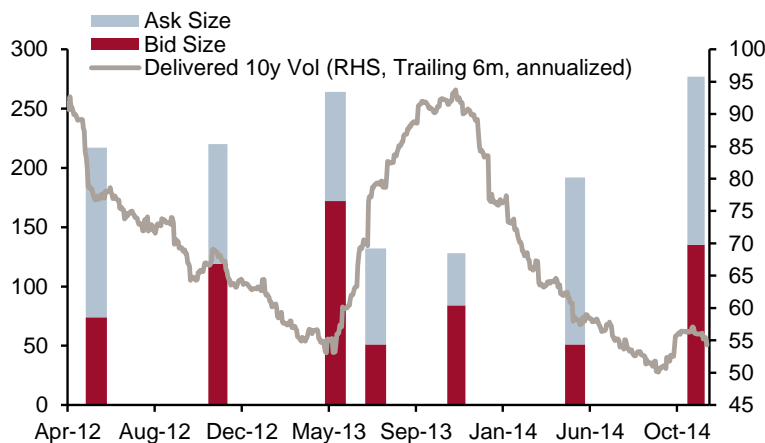
- Regulations continue to encourage trading book/balance sheet and VaR contraction for many securities products, nowhere is this more **noticeable than FICC**
- Smaller trading books mean occasionally suspect Treasury market depth, with the possibility of significant spikes in vol



Market Impact

- Although the timing of intermittent vol spikes is unknown, we think implied vols can start to build in more risk premium
- When the hiking cycle is at hand we look for upper-left vols to firm up more sustainably

Depth of TSY market declines as vol increases



Source: Credit Suisse, eSpeed

Gamma remains too low given liquidity risks



Source: Credit Suisse Locus

Theme: Market to price for more aggressive Fed

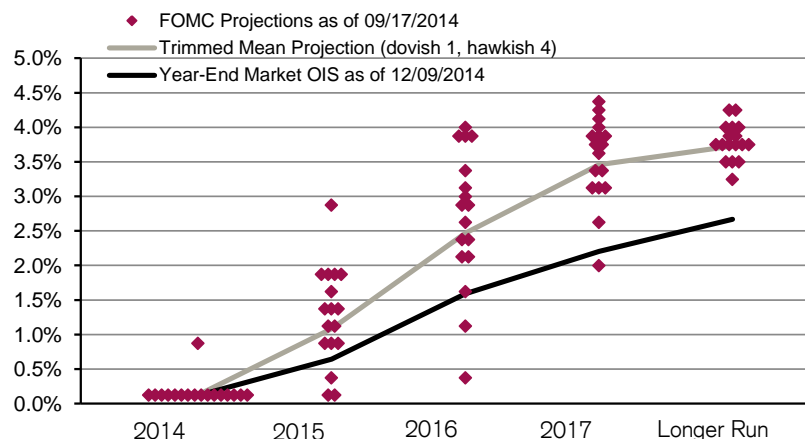
- Hike expectations may converge to the dots, which should drive additional flattening (5s30s and similar points) as the long-end remains structurally well-bid
- As debate switches to the pace of mid-2015 to mid 2016 hikes, 2s should begin to lead



Market Impact

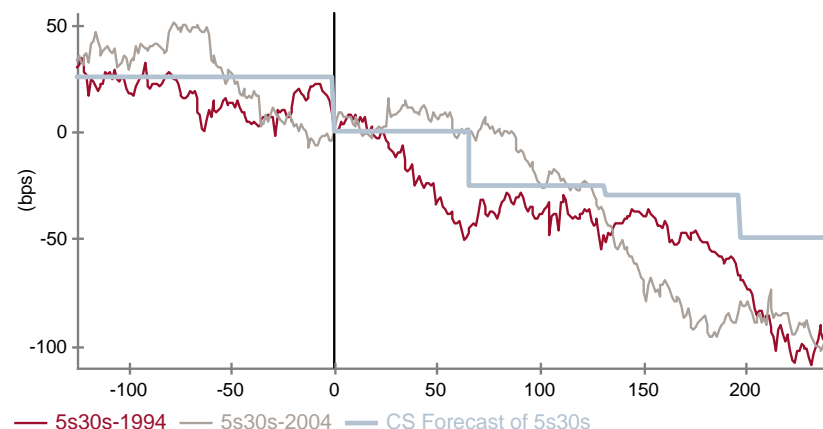
- 3s and 5s should underperform in sell offs over the first few months of the year, with 2s taking the lead soon before the first hike
- Curves have flattened significantly already, but the growth versus low inflation backdrop should allow a further move

Market remains priced below Fed expectations



Source: Credit Suisse, Federal Reserve

5s30s CS Forecast vs. prior hiking cycles (0=1st hike)



Source: Credit Suisse Locus

Trade Idea: EDM5-M6 steepener

Current level: 92bp

Target/Stop-Out: 112bp/80bp

Rationale

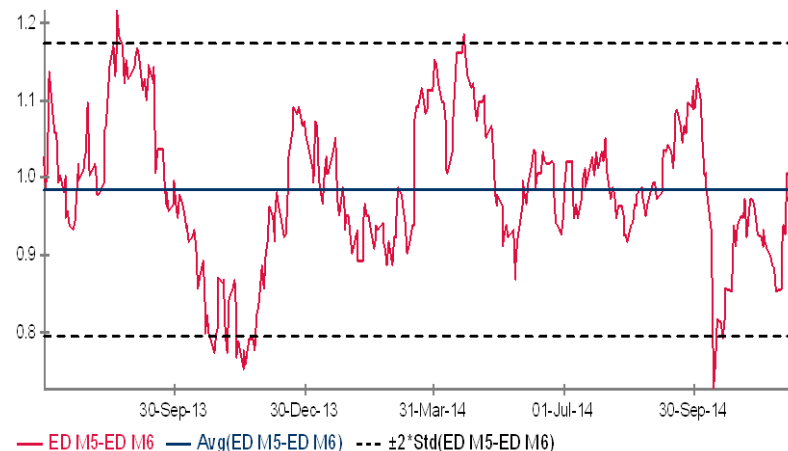
- Once the timing of the first hike becomes apparent, the market will focus on speed, but that may take time
- The market is currently priced for a peak hike speed of once at every other meeting
- We expect the Fed will have hiked rates four times by the end of 2015, starting in June

Risks

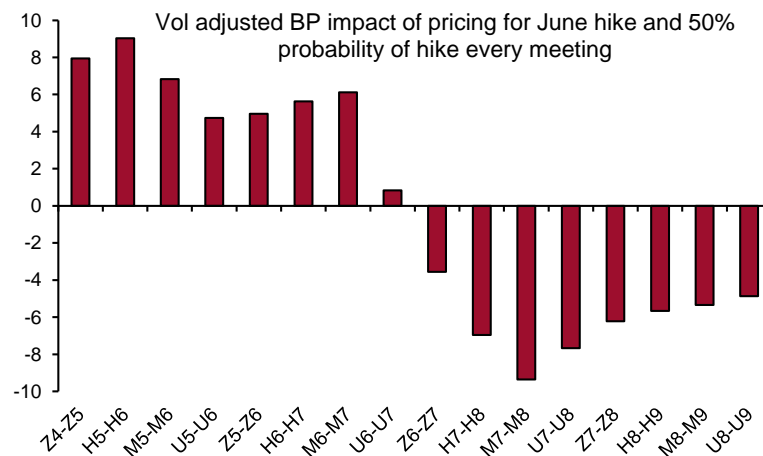
- The data rolls over and market prices for later and/ or slower hikes

Source: Credit Suisse, the BLOOMBERG PROFESSIONAL™ service

The EDM5-M6 curve is in the middle of its post talk range



We see M5-M6 steepener as offering the best risk/reward while allowing time to materialize



Trade Idea: 2y2y risk/reversal – sell -25bp OTM receiver to buy +35bp OTM payer

Current level: 0bp (Net Premium)

Target/Stop-Out: 14bp / -10bp

Rationale

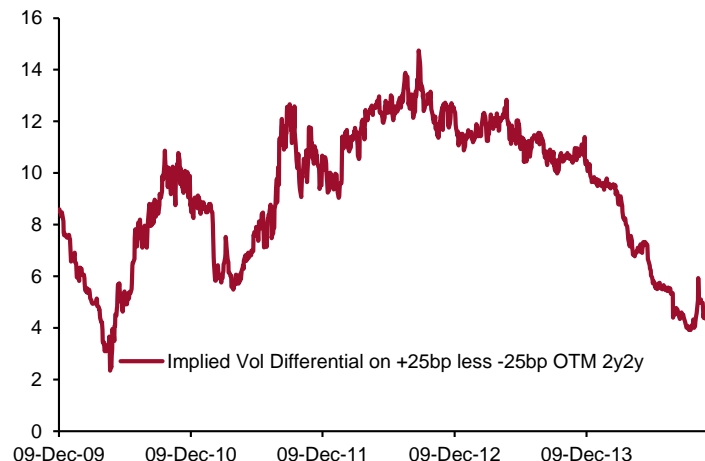
- Shorter-maturity rates should remain a function of domestic economic and policy developments which we expect to be supportive of higher yields
- The 2y2y yield is some 65-70 bp rich to our 2-year yield forecast for year-end 2016
- Receiver skew is towards the rich end of its five-year range versus payer skew, allowing for relatively attractive entry levels

Risks

- Domestic economic slowdown that pushes hikes further out or causes the expected pace of hikes to decline further

Source: Credit Suisse Locus

Implied vol on OTM 2y2y payers appears relatively cheap compared to that on 2y2y receivers



2y2y yield versus the risk/reversal strikes



Trade Idea: Long 2y TSY vs. 2y OIS

Current level: 4.8bp

Target/Stop-Out: 20bps/-5bp

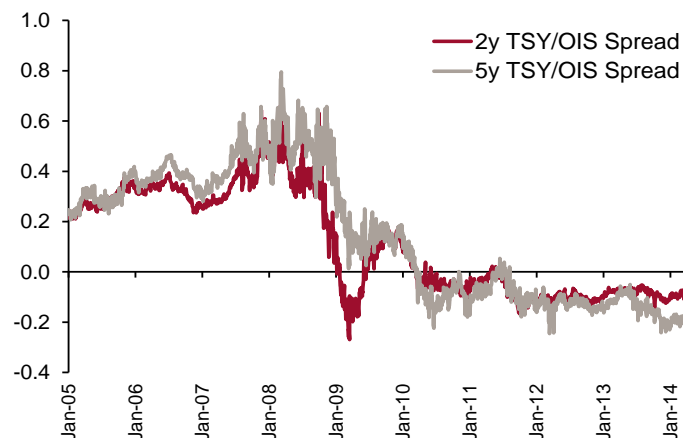
Rationale

- As fed funds effective moves up, we expect OIS to underperform Treasuries given less TSY supply, SOMA's lack of OTR TSYs to lend out, and a likely short-rates base to form that will increase demand to borrow collateral
- The Fed's expansion of RRP counterparties would give liquidity pools that are currently placed at the fed funds effective rate (e.g. GSEs) more options to lend out
- Effective FFs would better reflect credit risk relative to TSYs, while a decline in liquidity in that market would imply higher risk premium in OIS

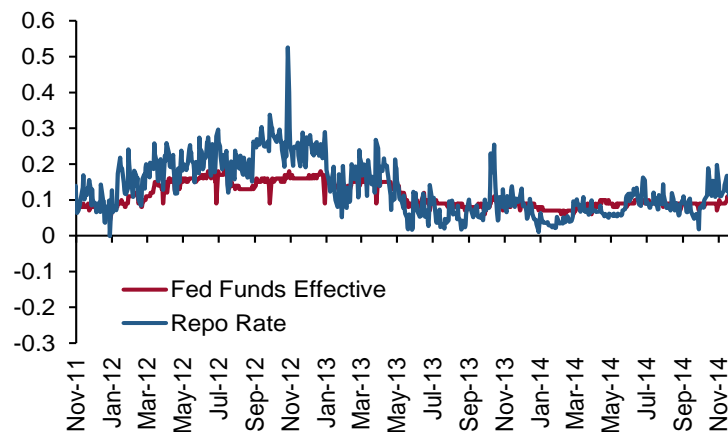
Risks

- TSY underperformance should large pools of money continue to lend below RRP in FFs

2y and 5y TSY/OIS Spread



GC TSY Repo vs. Effective Fed Funds



Source: Credit Suisse, the BLOOMBERG PROFESSIONAL™ service

Trade Idea: Long 5y5y TIPS BEI

Current level: 213bp

Target/Stop-Out: 230bp/ 205bp

Rationale

- Forward TIPS breakevens should again allow investors to express views on core inflation
- We expect core inflation in the US to remain firm as labor market slack continues to be absorbed
- 5y5y BEIs trade at multi-year lows, a level we deem attractive to begin building long positions
- Cross-market: Long US vs. short 5y5y RPI (UK)

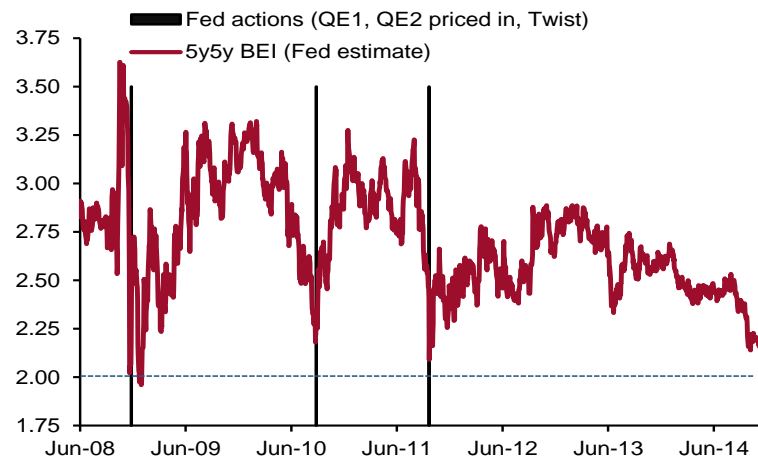
Risks

- Downside surprises in core inflation in the US
- Heightened liquidity risks could put a premium on TIPS yields, depressing forward BEIs

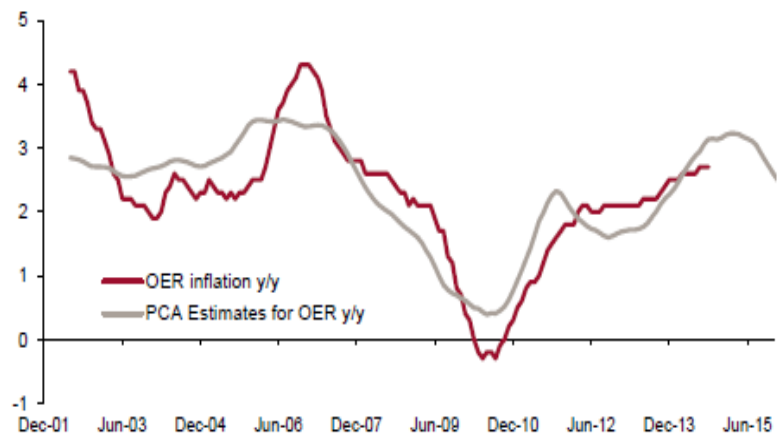
Link to full report: <https://plus.credit-suisse.com/r/6SRfmT>

Source: Credit Suisse, Federal Reserve, Haver Analytics ®

5y5y TIPS BEIs



Actual vs. projected OER inflation



Trade Idea: UST 5s30s flattener

Current level: 125bp

Target/Stop-Out: 90bp/ 135bp

Rationale

- Structural demand and global dynamics should remain significant drivers of long-end rates, keeping yields somewhat more constrained
- 5s and in are more likely to be a function of domestic innovations, particularly as the Fed initiates its hiking cycle

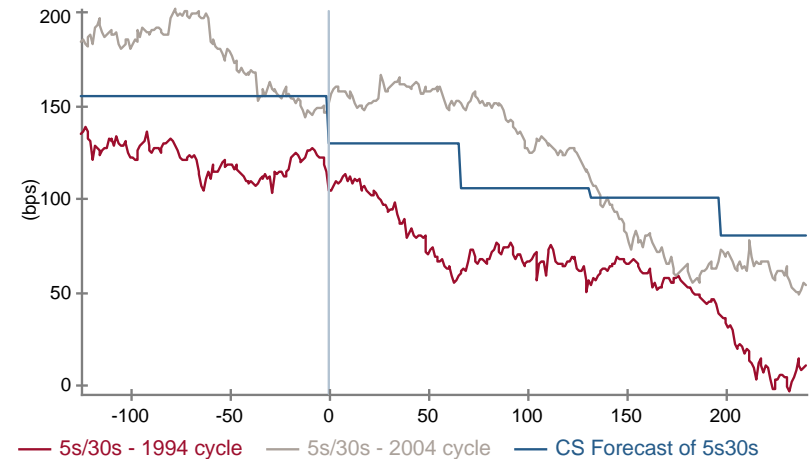
Risks

- The large flattening that has already taken place leaves the curve somewhat vulnerable to a steepening, potentially if the domestic backdrop takes a turn for the worse

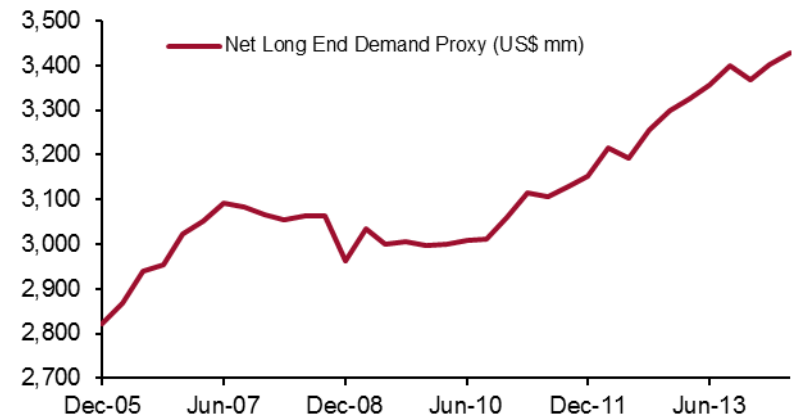
Link to full report: <https://plus.credit-suisse.com/r/2jteF3>

Source: Credit Suisse, Federal Reserve

5s30s in 2004 relative to our forecasts



Structural long-end demand keeps 30s well bid



European Rates

Thematic trade ideas:

- Long front-end swaps, core and periphery
- BTPs 7s30s steepener
- EUR and CHF long-end flattener
- EURUSD and CHFUSD cross-currency basis wideners
- Bearish France vs. core and periphery

European fixed income views

Market	View	Expression
Outright	<ul style="list-style-type: none"> • Receive rates out to 3y • Near-term neutral 10-15y; longer-term bearish • EUR becoming new funding currency 	<ul style="list-style-type: none"> • Receive EUR 2y1y • 3y2y EURUSD XCCY widener • Receive SEK 2y1y
Curve	<ul style="list-style-type: none"> • 10s30s looks steep given global risk factors 	<ul style="list-style-type: none"> • EUR 10s30s flattener • CHF 15s30s flattener
Curvature	<ul style="list-style-type: none"> • Curvature in 5s10s30s is too low 	
ASW	<ul style="list-style-type: none"> • Long Bund vs. Eonia 	<ul style="list-style-type: none"> • Buy RXH5 vs. Eonia
Bonds	<ul style="list-style-type: none"> • Overweight peripheral front-end • Overweight Italian front-end vs. 5s • Steeper curves in the periphery • Underweight France 	<ul style="list-style-type: none"> • Long 2y Spain outright and vs. 2y France • Long 3y BTP vs. 5y France • Long 3y Portugal • SPGB 5s30s steepener • BTP 7s30s steepener
Money Markets	<ul style="list-style-type: none"> • Risk of liquidity squeeze in Q1 2015 but more liquidity likely to come later 	<ul style="list-style-type: none"> • Receive Jun-16 IMM Eonia • Whites-reds Eonia flattener
Inflation	<ul style="list-style-type: none"> • Inflation can fall further in the near term • Expect 10s30s HICP to flatten if QE 	<ul style="list-style-type: none"> • Short HICP 5y5y

Source: Credit Suisse

Theme: Europe continues to muddle through

- Tactical trades likely to dominate
- Path for data key for yield trajectory
- Hard to call whether QE happens, but critically, whether it benefits real-economy if it does
- Political risk increases significantly in 2015 increasing volatility and providing opportunities

Scenarios	Central	Downside - no policy response	Downside - with ECB response	Upside
Core yields	No sharp repricing of yields Yields react to US outlook with low beta	Lower yields and flatter curve	Yields rally on announcement but questionable longer-term impact	Higher yields and core curves led by 10y
Periphery	Spreads grind tighter	Spreads widen led by 2-5y	Spreads tighten near term, but risks increase if data don't improve	Spreads tighten led by 10y
US-EUR 10y spreads	Divergence	No divergence	Divergence on announcement	Convergence in time led by Europe
Probability	45%	10%	30%	15%

Source: Credit Suisse

Theme: Duration near-term balanced then bearish

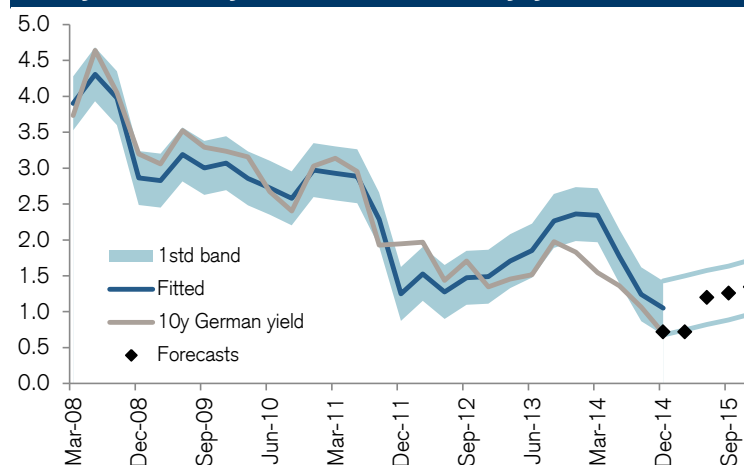
- Opposing forces keep the duration view balanced in Q1
 - Higher yields: higher US rates and slowly-improving European data
 - Lower yields: further declines in inflation near term, increased political risk and the possibility of QE
- Yields should ultimately rise – we expect 1.35% year-end for 10y Germany
- Yield impact of QE depends on economic data trajectory, strength of implementation and rhetoric into event:
 - Well flagged and stronger data: yields can rise
 - Weak data and/or uncertainty about impact: yields likely to remain subdued



Market Impact

- We expect an elbow-shaped profile for core yields: sideways for the first few months, then higher
- US - German yield divergence can continue
- Q1 trading range: 0.6% - 0.9%

10y Germany to reach 1.35% by year-end 2015



Source: Credit Suisse Locus

Theme: The hurdle to sovereign QE remains high

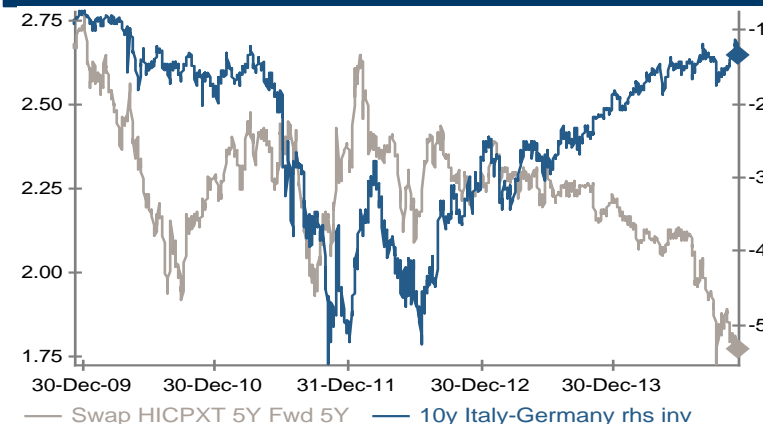
- Sovereign QE is not a foregone conclusion in Q1 2015
- Significant Governing Council divisions regarding appropriateness of sovereign bond purchases, what to buy, the right timing and whether they would work
- Interpretation of oil price decline should be important: how lasting the impact on inflation vs. positive growth stimulus
- If the ECB does do sovereign QE and economic data don't improve, market risk likely to increase significantly



Market Impact

- Since the ECB will remain very dovish, keeping the possibility of QE alive, it is hard to position against
- Increased risk of external event-driven volatility suggests reduced risk positions
- Market is pricing financial market impact but not real-economy impact

Inflation expectations not reacting to possible QE



Source: Credit Suisse Locus

Trade Idea: Short 5y5y HICP

Current level: 1.75%; Entry : 1.82%

Target/Stop-Out: 1.60%/ 1.95%

Rationale

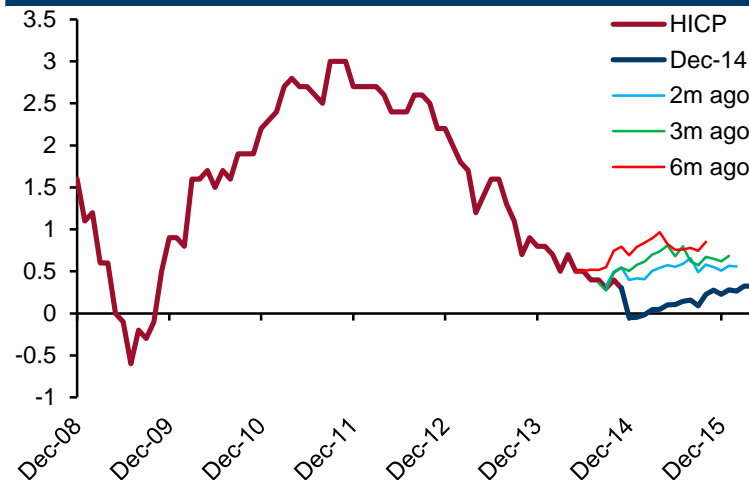
- The market is positioned for a sustained period of low inflation, with the breakeven term structure consistently shifting lower and currently expecting Q1-15 prints below 0%
- We think it will take time for the market to price for the higher medium-term impact of oil on growth and longer-dated inflation. The ECB's stance on the oil price impact is also not yet clear. Hence, we expect HICP 5y5y to weaken further

Risks

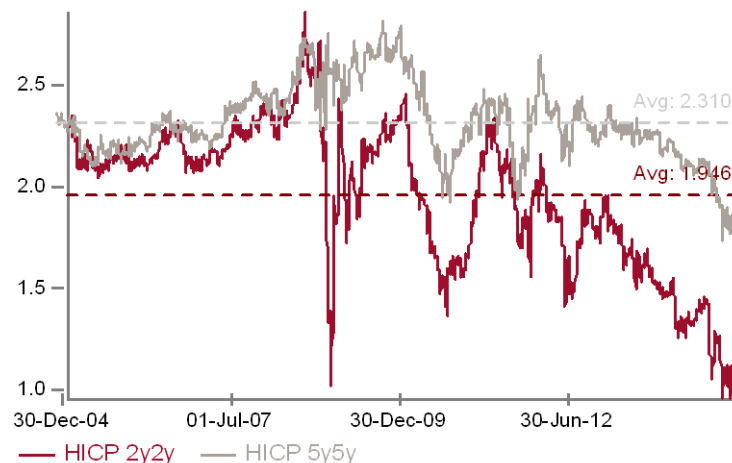
- The risk is an effective sovereign QE; we like EUR 5s10s real steepeners and 10s30s breakevens as potential hedges

Source: Credit Suisse Locus

Inflation prints in Q1-15 are priced to be negative



5y5y HICP : the ECB has moved the floor lower



Hedge Trade Idea: EUR 1y5y (or RXH5) payer spread

Current level: 5.5bp

Rationale

- Our key duration view is for yields to rise towards the end of 2015
- We are cautious on outright short-duration plays due to uncertainty on timing and effectiveness of QE, weak growth and declining inflation prints
- We recommend a 1x1 EUR 1y5y 0.75%/1% payer spread (spot: 0.4%, fwd: 0.55%) as a hedge to our view that rates remain range bound in the near term

Alternative

- RXH5 153/152 put spread (ref: 154) @ 30c

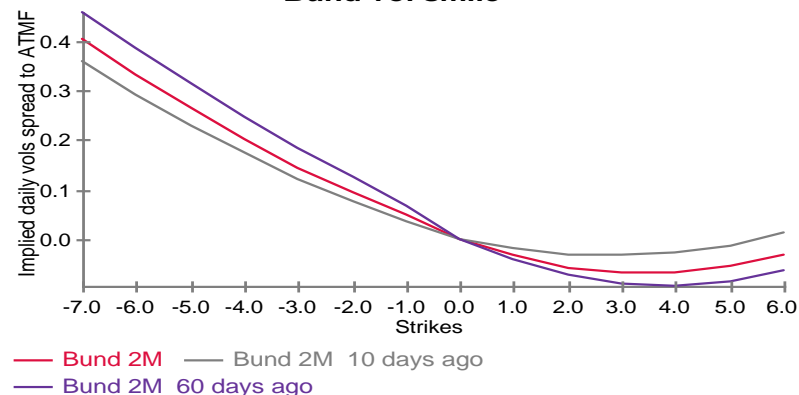
Risks

- Losses are limited to the premium paid

Source: Credit Suisse Locus

Payer skew has cheapened

Bund vol smile



Protected way to fade low level of yields



Theme: Front-end longs & cross-currency basis wideners

- Threat of QE to keep yields low in the front end
- Zero or possibly negative inflation prints in Q1 to keep the front-end anchored
- Divergence to the US to be most pronounced in front-end spreads
- Divergence to the US can also be expressed in peripheral spreads and through FX basis swap wideners
- Risks to this view emerge from low TLTRO uptake and a low liquidity environment persisting longer than the market is pricing



Market Impact

- The EUR front-end to diverge from the US
- Volatility in the front-end may be driven by heavy positioning and liquidity tightness
- But this will be contained by the threat of QE

Main trade recommendations

- Receive EUR 2y1y
- Receive EUR 2y1y versus USD
- Long front-end periphery
- Long BTPS 2y versus UST
- Long 1y1y Eonia
- EURUSD 3y2y cross-currency basis swap wideners
- CHFUSD 1y1y FX basis swap wideners

Trade Idea: Receive EUR 2y1y (outright and versus USD)

Current level: 0.37%; Entry/Add : 0.5%

Target/Stop: 0.1%/0.8%

Rationale

- A sell-off induced by tight liquidity would provide good entry since it increases the probability of ECB QE
- Vol-adjusted carry on 2y1y is still attractive
- PCA on real rates across the US, UK, EUR shows high correlation for 5y5y but low for 2y2y. Hence this is the best location to express monetary policy divergence view

Alternatives

- Receive EUR 2y1y versus USD

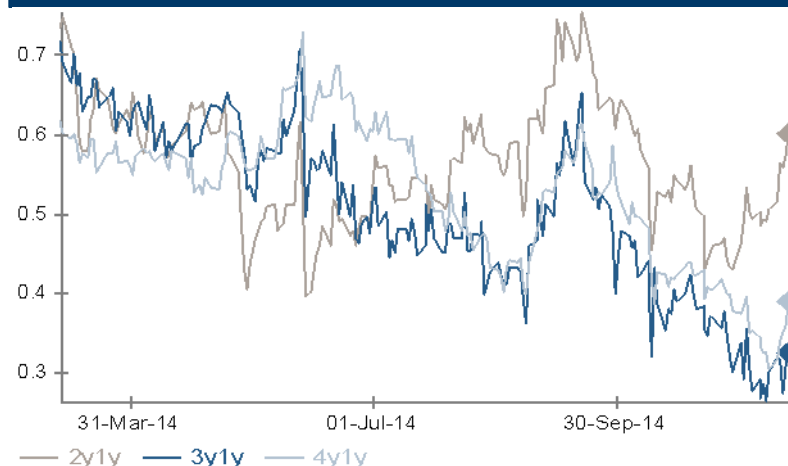
Risks

- No QE and liquidity conditions remain tight or growth picks up much faster than forecast

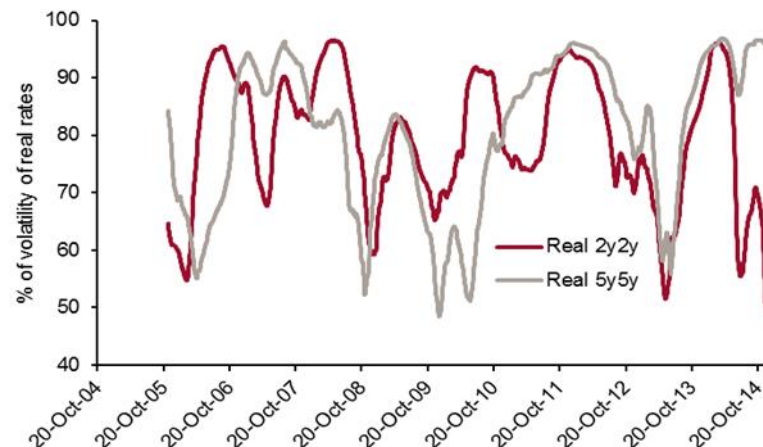
Link to full report: [click here](#) and [here](#)

Source: Credit Suisse Locus, Credit Suisse

EUR 2y1y attractive on vol-adjusted basis



EUR-USD front-end best place for divergence



Trade: Receive Jun-16 IMM Eonia

Current level: -2bp

Target/Stop-Out: -7bp/0bp

Rationale

- Risk of tighter liquidity in H1-15. This should prompt an ECB response which means liquidity should be sufficient from 3Q 2015
- With excess cash well above the €200bn threshold, overnight fixings should drop back at 10bps-12bps above the deposit rate
- Further deposit rate cut more likely than a hike

Alternative

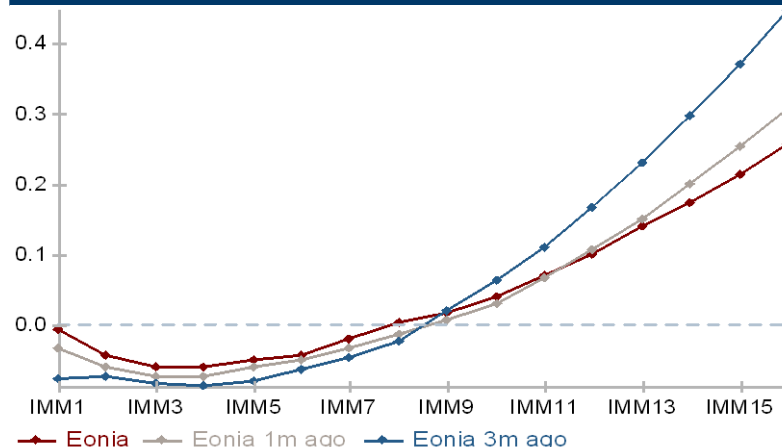
- White- reds Eonia flattener
- ER M5-H6-Z6 fly

Risks

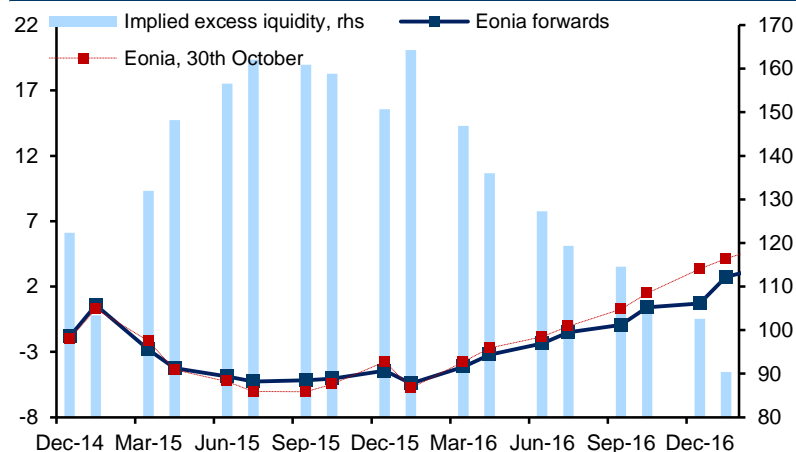
- No QE and liquidity conditions remain tight

Source: Credit Suisse, Credit Suisse Locus

Eonia IMM term structure has room to flatten more



More excess liquidity should be priced from 2016



Trade Idea: Receive SEK 2y1y

Current level: 0.56%

Target/Stop-Out: 0.40% / 0.65%

Rationale

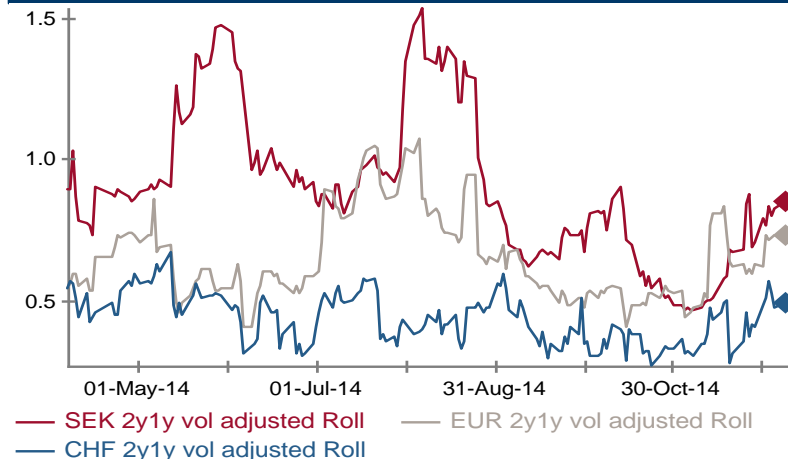
- Receiving 2y1y has attractive vol-adjusted carry
- We expect the Riksbank to strengthen its forward guidance by further flattening the rates path
- SEK 2y1y still trades 25bp above EUR 2y1y
- Our PCA indicates that the SEK front-end is trading cheap

Risks

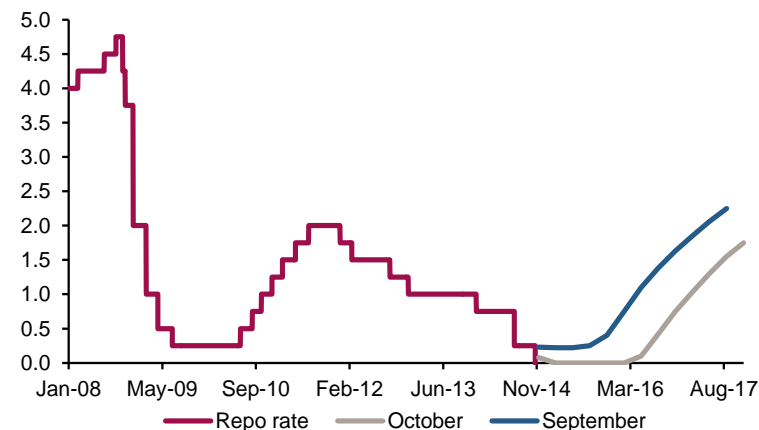
- Stronger economic data could lead to a less accommodative stance by the Riksbank

Source: Credit Suisse Locus

SEK offers better vol-adjusted carry than EUR/CHF



Riksbank repo path projections



Trade Idea: EURUSD 3y2y cross-currency basis widener

Current level: -20bp

Target/Stop: -30bp/-15bp

Rationale

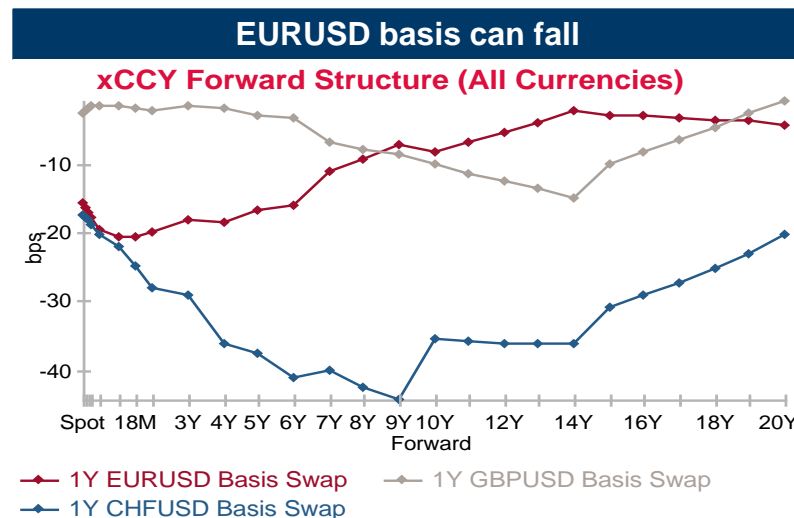
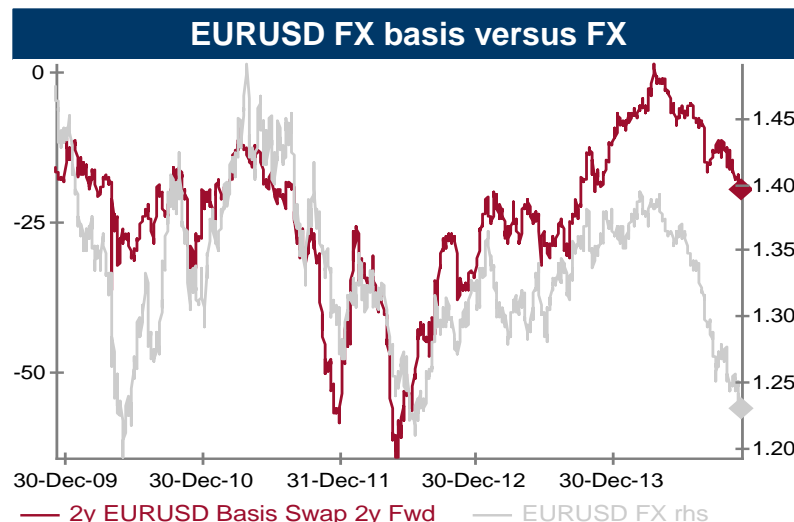
- Play EUR-US market divergence through basis spreads as an alternative to FX
- EUR to become funding currency of choice for global issuers
- January normally has a negative seasonal (i.e., basis tightens). But we think next year will be different as more global issuers come to the EUR market

Risks

- EURUSD appreciates from current levels

Link to full report: [click here](#)

Source: Credit Suisse Locus



Trade Idea: CHFUSD 1y1y cross-currency basis widener

Current level: -22bp

Target/Stop: -30bp/-18bp

Rationale

- Basis should react to January issuance
- The basis remains very flow driven but offers an alternative way to play for the USD strength theme
- The cross-currency basis does not have enough risk premium for SNB action. It is therefore a protected way to play for surprise SNB action

Alternative

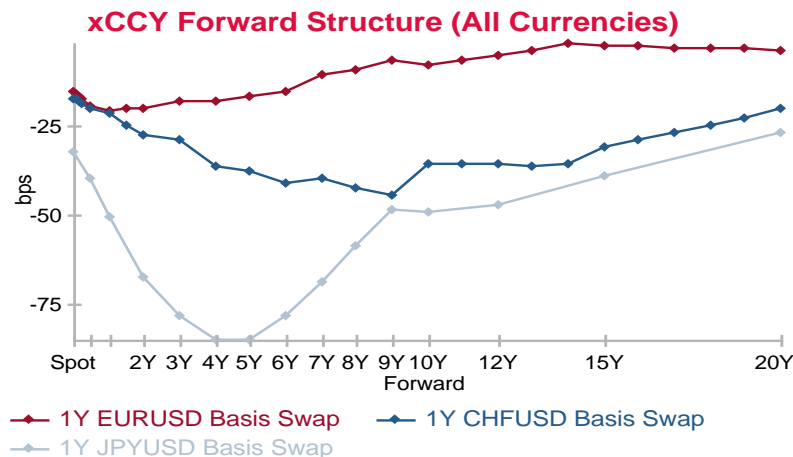
- EURUSD FX basis wideners

Risks

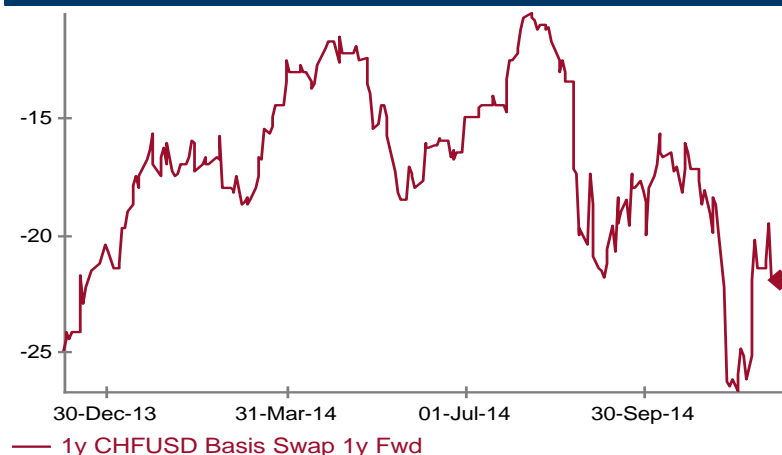
- No new policy response from the SNB

Source: Credit Suisse Locus

CHF short end basis cheap



CHF basis has room to widen



Theme: Long-end flattening

- Curve is steep as duration grab has spilled over into the 10y point
- Market pricing QE as reflationary for the back end of the curve but we question this (even in the US breakevens have not widened despite large balance sheet expansion)
- The curve could steepen if the ECB does QE only out to the 10y sector
- But we expect yield grab to continue pushing long-end yields lower
- QE exacerbates the economic versus financial market divergence



Market Impact

- The long-end will be driven by judgement on QE success
- EUR long-end cannot decouple from the US and UK

Trade recommendations

- EUR 10s30s flattener
- Receive EUR long-dated forwards
- EUR Forward flatteners
- CHF 15s30s flatteners
- HICP 10s30s flattener

Source: Credit Suisse Locus

Trade Idea: EUR 10s30s flattener

Current level: 66bp; Entry level: 75bp

Target/Stop: 60bp/85bp

Rationale

- 10s30s has lagged the flattening in the front end of the curve. Re-steepening in January should provide an entry opportunity
- With 5s10s30s so low, we expect the curve can flatten if there is either a sharp rally or sell-off in yields
- The EUR 10s30s curve looks steep versus the US and UK

Alternatives

- EUR 5y5y-10y10y flatteners
- CHF 15s30s flatteners

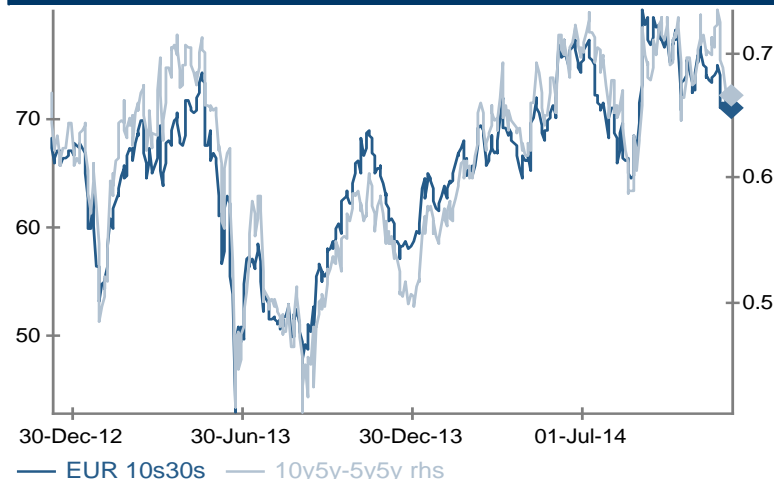
Risks

- The ECB does QE out to the 10y point

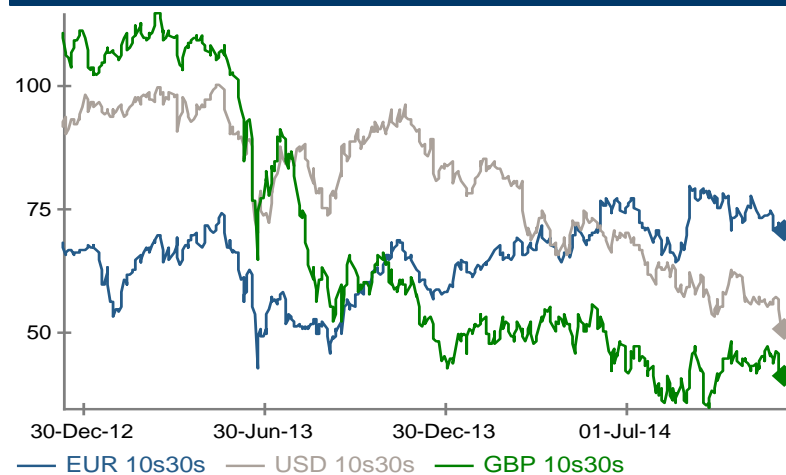
Link to full report: [click here](#)

Source: Credit Suisse, Credit Suisse Locus

EUR 10s30s is steep



Global curves are flatter



Trade Idea: CHF 15s30s flattener

Current level: 34bp

Target/Stop: 25bp/ 40bp

Rationale

- The CHF curve is normally correlated with EUR but is now steep versus Europe
- We like flattening in the EUR long end which should also filter into the CHF curve

Alternatives

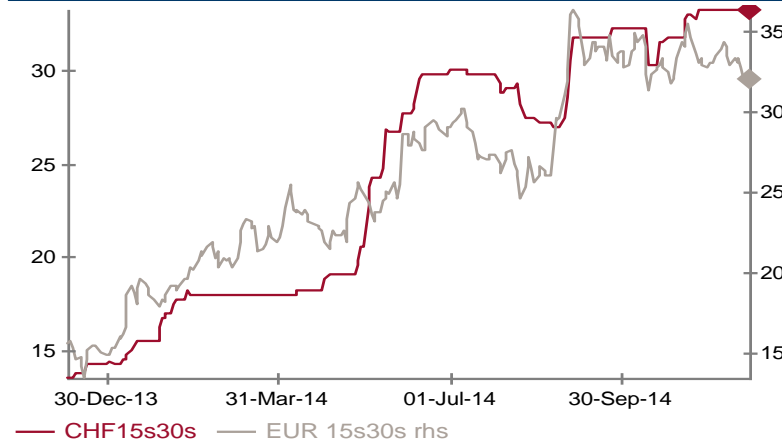
- EUR 5y5y-10y10y flatteners
- EUR 10s30s flatteners

Risks

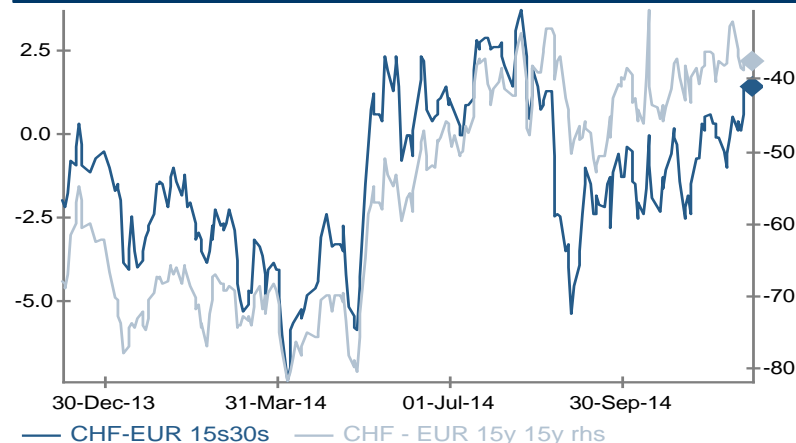
- The ECB decides to do QE out to the 10y point or the EUR 10s30s curve steepens
- Flow drivers keep the long end cheap

Source: Credit Suisse Locus

CHF 15s30s vs EUR steep



The CHF-EUR box is at the high end of the range



Theme: Trade ranges in German ASW

- Opposing forces are likely to balance each other out and prevent spreads from widening much more beyond 2012 levels
- If long-end spreads richen too much, we expect investors to come in to tactically receive swaps



Market Impact

- 10y and 30y ASW should range trade

Trade recommendations

- Bund-Eonia ASW widening
- Bund-Eonia wideners vs. Gilts
- 30y DBR ASW tightener

On the widening side	On the tightening side
<ul style="list-style-type: none"> ▪ Global risk off (geopolitics or stretched valuations) ▪ Regulatory pressure ▪ German budget surplus growing ▪ Quantitative easing 	<ul style="list-style-type: none"> ▪ Yield grab ▪ Year-end balance sheet constraints ▪ Credit easing ▪ Increasing corporate issuance

30y ASW look rich; we prefer trading 10y from the long side						
		Current	Pre crisis average	Post crisis average	2014 Low	2014 High
ASW	Schatz	24.3	16	64	22	34
	Bobl	31.4	17	53	30	40
	Bund	23.8	18	35	18	28
	30Y	6.9	15	-3	-4	8
OIS	Schatz	0	8	16	-3	5
	Bobl	0.4	10	16	-5	6
	Bund	-8.3	10	5	-16	-5
	30Y	-12.3	8	-22	-24	-12

Source: Credit Suisse, Note: Interesting trades highlighted in red

Trade Idea: Bund-Eonia ASW widener

Current: -9.0bp Entry: -12bp

Target/Stop: -5bp/-15bp

Rationale

- The ECB is expected to take out 2.5x net issuance if it buys €500bn sovereign bonds in 2015. This should initially widen Bund ASW
- QE would also take out part of the stock of German paper – as there is zero net issuance in Germany next year
- We would enter ASW wideners at -12bp
- We see ASW wideners as a good hedge to our portfolio

Risks

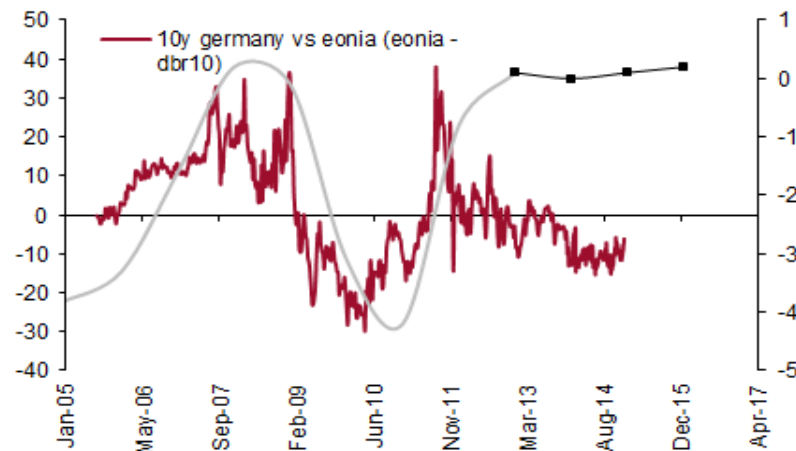
- Yield grab forcing receiving in swaps
- QE creating common Eurobond transferring credit risk to Germany

Source: Credit Suisse, Credit Suisse Locus

German 10y ASW: Bunds are cheap to Eonia



German 10y ASW vs. German budget balance



Summary of European Government themes and views

Thematic trade ideas:

- Periphery front-end attractive and curve steepeners
- Bearish semi-core, in particular France
- Trade ranges in core spreads

Market Impact

Country group	Country	Position vs. benchmark	Curve	Spread to Germany	Expression
Germany		Overweight	Neutral		Long Bund vs. Eonia
Non-German core	Austria	Underweight	Neutral	Neutral	10y RAGB vs. Nether
	Finland	Underweight	Neutral	Neutral	10y RFGB vs. Nether
	The Netherlands	Overweight	Neutral	Neutral	
Semi core	France	Underweight	Neutral	Wider	Short 10y France vs Germany Long 2y Italy vs. 5y France Short 2y France vs. Spain
	Belgium	Underweight	Neutral	Neutral	
Periphery	Italy	Overweight	Steeper	Tighter	BTP 7s30s steepener
	Spain	Overweight	Steeper	Tighter	Long 2y Spain 5s30s steepener
	Ireland	Benchmark	Neutral	Neutral	
	Portugal	Overweight	Neutral	Tighter	Long 3y Portugal

Source: Credit Suisse

Theme: Periphery front end cheap and curve steepeners

- Front-end should be more protected from political uncertainty
- Front-end offers decent volatility-adjusted carry and has relatively good entry levels
- Steepeners in the periphery have good entry levels and tend to carry positively
- Peripheral debt sustainability uncertainty should be priced into the long-end
- ECB more likely to buy up to 10y

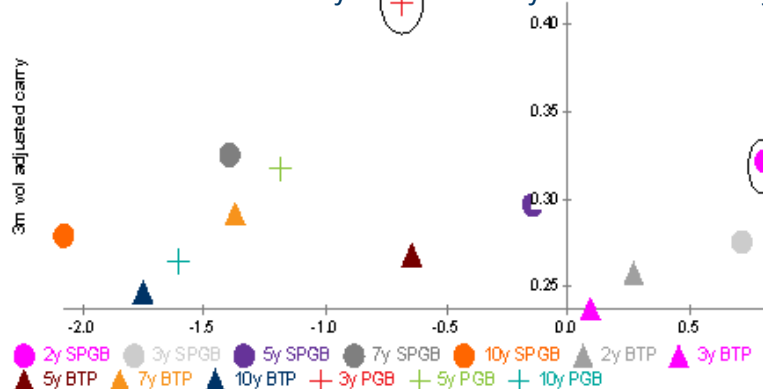


Market Impact

- Long 3y Portugal
- Long 2y Spain outright or vs. France
- Long 2y Italy vs. France or vs. UST
- SPGB 5s30s steepener
- BTP 5s30s and 7s30s steepeners

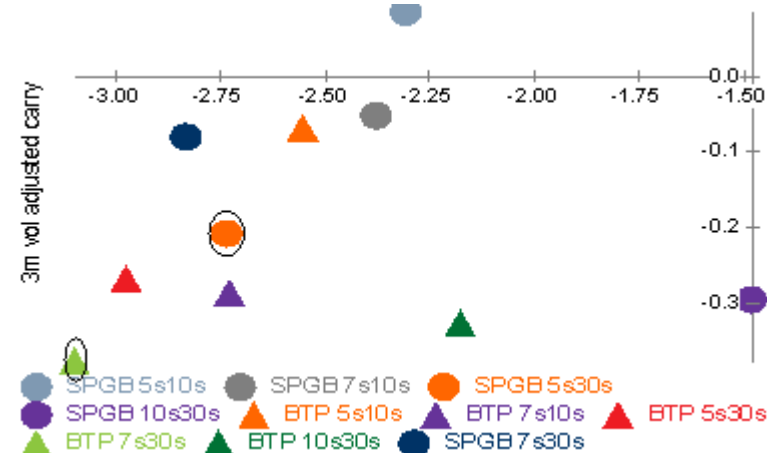
2y Spain and 3y Portugal attractive longs

X-Axis: 3m z-score and y-Axis 3m carry over 3m volatility



Source: Credit Suisse Locus

SPGB 5s30s and BTP 7s30s attractive steepeners



Trade Idea: Long 3y Portugal

Current level: 1.16%

Target/Stop-Out: 0.6%/ 1.25%

Rationale

- Portugal would likely benefit substantially from sovereign QE
- 3y Portugal has the highest volatility-adjusted carry and still offers a relatively good entry point for long position
- 3y Portugal has positive carry of 20bp for three months, almost double the highest carry in Italy or Spain for the same period

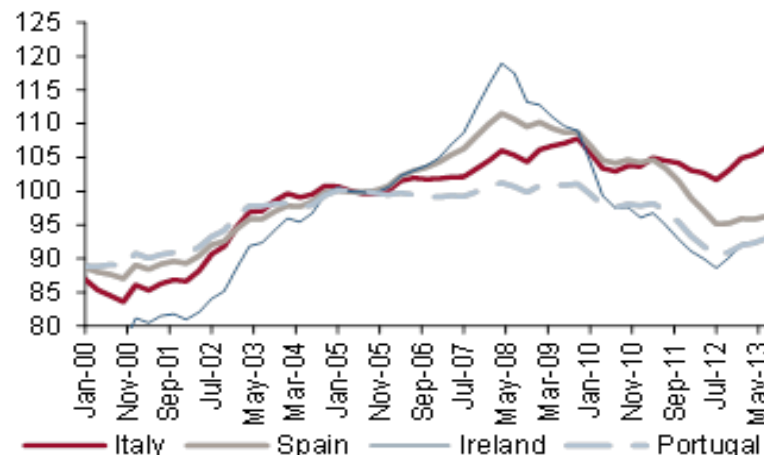
Risks

- ECB stepping away from its balance sheet target
- Portuguese elections in 2015
- Greek presidential election creating spill over

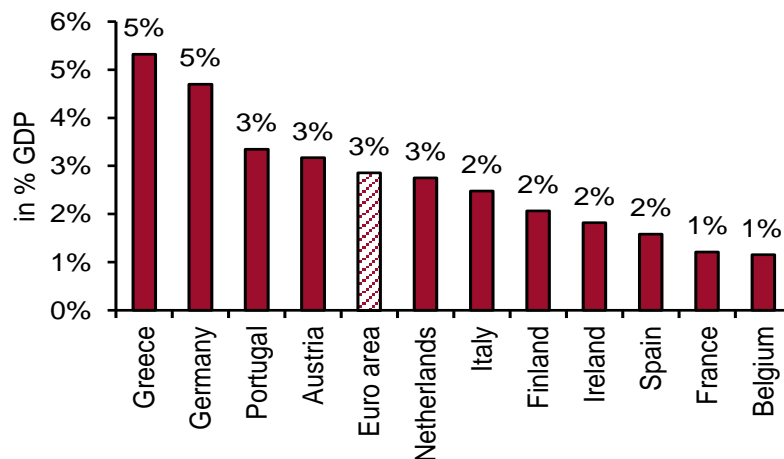
Link to [full report](#)

Source: Credit Suisse

Portuguese competitiveness better than Italy/Spain



ECB purchases ex-net funding



Trade Idea: Long 2y Spain

Current level: 0.59%

Target/Stop-Out: 0.15%/0.68%

Rationale

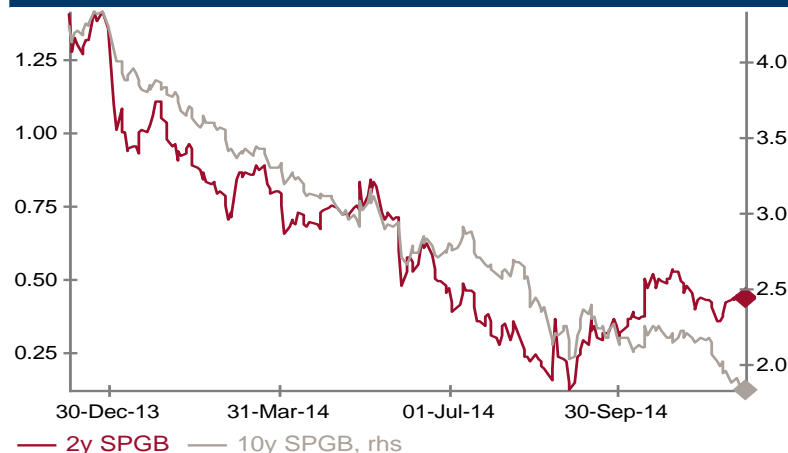
- We expect Spanish growth to be among the highest in the euro area due to the reform efforts of the Spanish government
- Spanish front-end has underperformed recently relative to the belly of the curve
- 2y or 3y Spain is attractive on a volatility adjusted carry basis and the position carries positively over the next three months
- Issuance favours expressions in the front-end

Risks

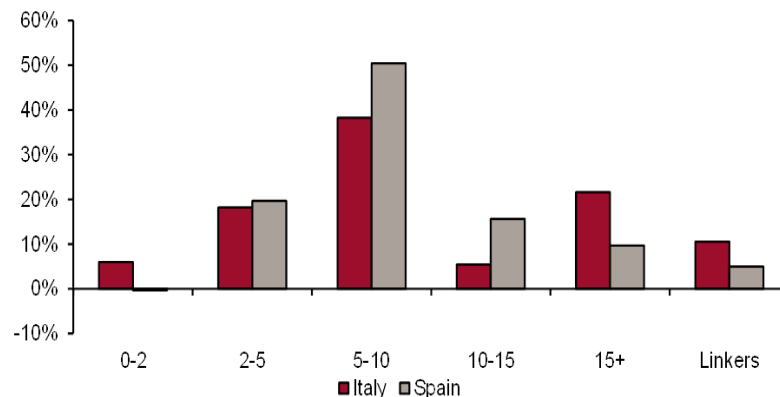
- Political uncertainty due to the elections in 2015

Link to [full report](#)

2y SPGB appears cheap relative to 10y SPGB



Spain has had negative issuance in the front-end



Source: Credit Suisse Locus, National Treasuries

Trade Idea: SPGB 5s30s steepener

Current level: 219bp

Target/Stop-Out: 250bp/ 200bp

Rationale

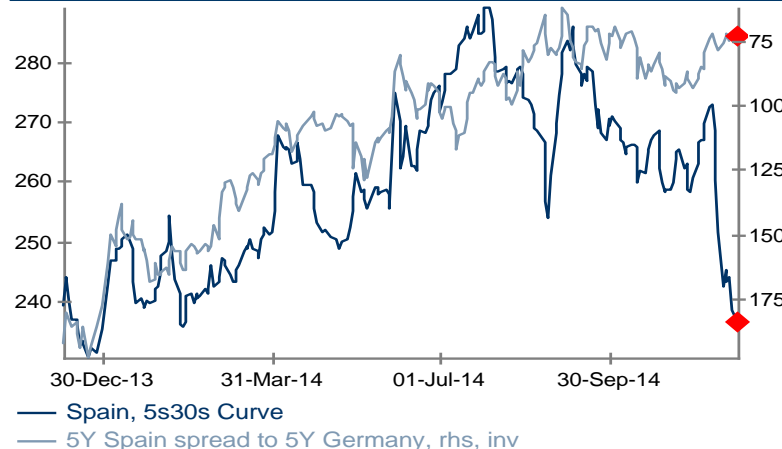
- The Spanish 5s30s curve appears to be too flat relative to 5y SPGB-DBR spread
- The Spanish 5s30s curve appears to be too flat relative to the BTP 5s30s curve
- Spanish 5s30s steepeners have attractive vol-adjusted carry and carry positively 5bp over the next three months

Risks

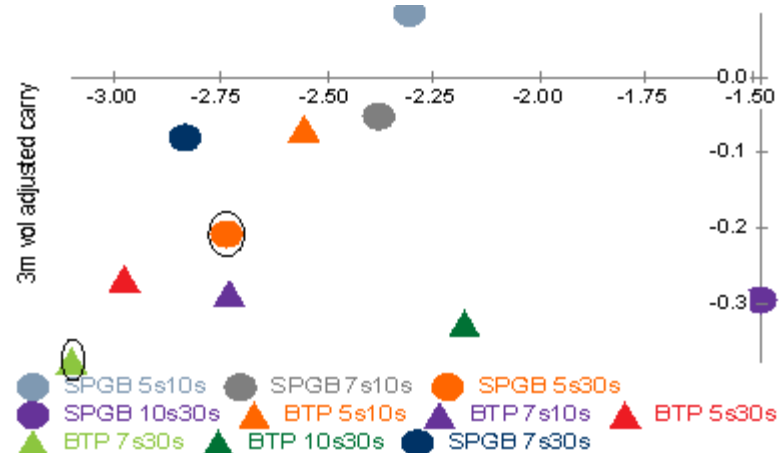
- Extension trades due to the low absolute yield would support the long end
- ECB buying 30y bonds could flatten the curve

Source: Credit Suisse Locus

SPGB 5s30s too flat given the level of spread



5s30s most attractive steepener in Spain



Trade Idea: BTP 7s30s steepener

Current level: 193bp

Target/Stop-Out: 220bp/ 185bp

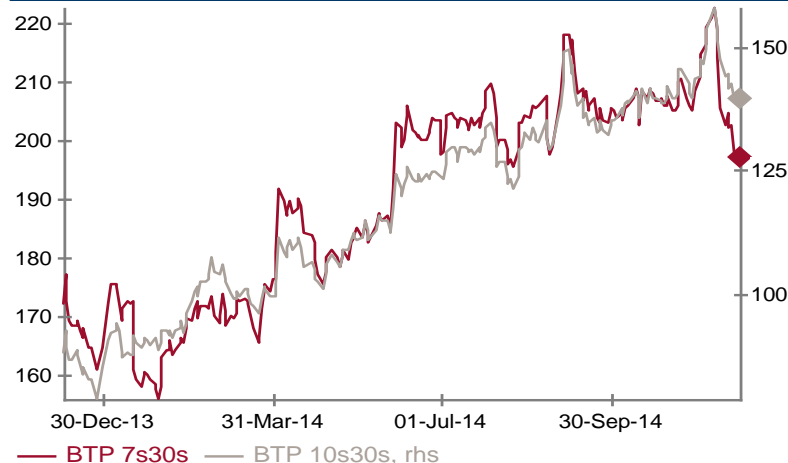
Rationale

- BTP 7s30s steepeners have the highest vol-adjusted entry carry in Italy. The steepener carries positively 6bp for three months.
- The 7s30s curve appears to be too flat relative to the 10s30s curve
- ECB QE focused on the sub 10y sector would support steepening of the curve
- Sub-investment downgrade risk and long-term debt sustainability in Italy should be priced into the long end

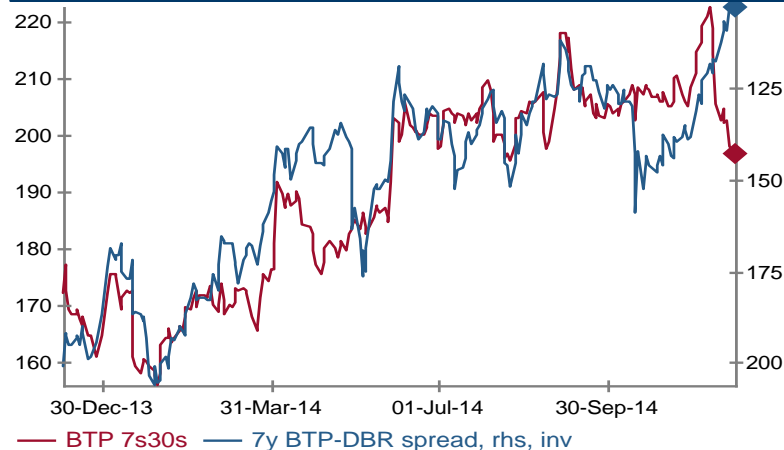
Risks

- Extension trades due to the low absolute yield would support the long end
- ECB buying 30y bonds could flatten the curve

BTP 7s30s is too flat relative to BTP 10s30s



7s30s appears too flat relative to the 7y spread



Source: Credit Suisse Locus

Theme: French economic performance remains weak

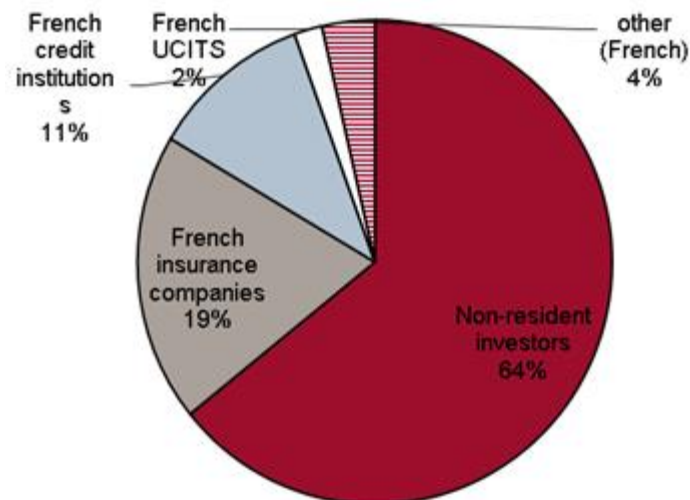
- France is the only country in the euro area with increased net funding requirements in 2015; it will have the highest net funding requirements in the euro area
- French sovereign bonds have been a preferred investment by international investors. Unwinding of these flows is a risk to France
- France lacks the economic reform effort of other euro area countries
- Our economists expect only weak growth in France



Market Impact

- France already at very tight levels in 0-10y and we see potential for widening here
- We express this via shorts in France versus Germany
- We favour periphery versus France

64% of French debt is held by foreigners



Source: Credit Suisse, Japanese Ministry of Finance

Trade Idea: Short 10y France vs. 10y Germany

Current level: 28bp

Target/Stop-Out: 35bp/15bp

Rationale

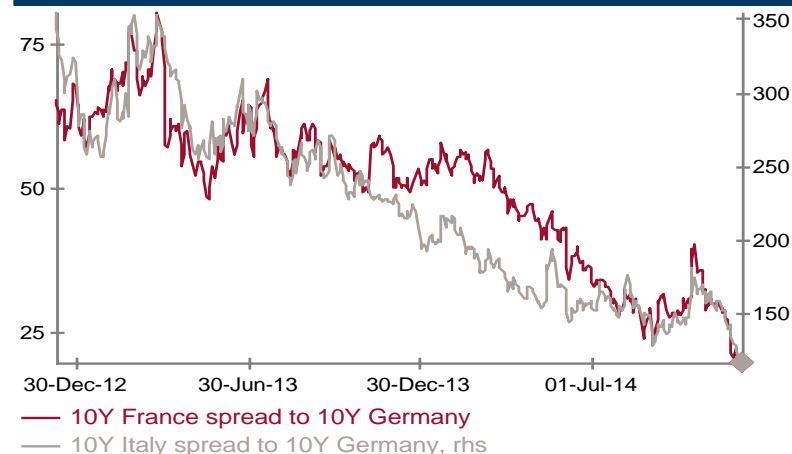
- Short 10y France versus Germany is a good hedge to bullish periphery positions
- 10y DBR offers similar vol-adjusted carry to 10y France
- Germany has zero net funding in 2015 while France has the highest net funding requirements.

Risks

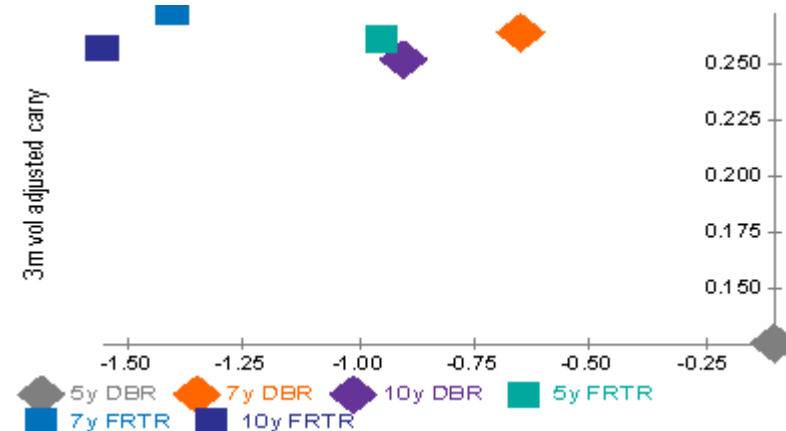
- ECB QE not based on the ECB's capital key

Source: Credit Suisse Locus

10y FRTR-DBR spread relative 10y BTP-DBR spread



France no longer offers better carry than Germany



X-Axis: 3m z-score and y-Axis 3m carry over 3m volatility

Trade Idea: Long 2y BTP vs. 5y France

Current level: -28bp

Target/Stop-Out: -5bp/-45bp

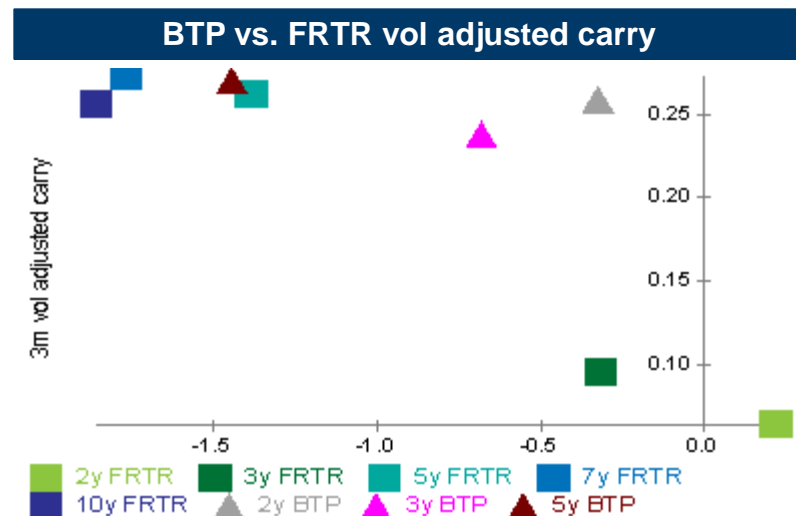
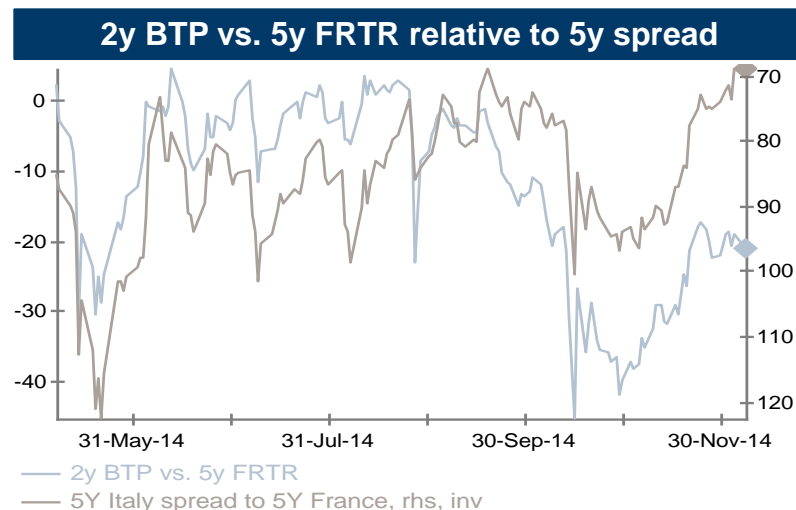
Rationale

- Italy should benefit more from purchases by the ECB than France or Belgium given the lower deficit in Italy
- France has the highest net funding requirement in Europe while Italian net funding mainly covers coupon payments
- BTP 2y to FRTR 5y spread is too wide relative to FRTR-BTP 5y spread
- 2y BTP offers same vol-adjusted carry as 5y France but has a better entry level. 2y BTPs have higher absolute carry than 5y France

Risks

- Low growth and inflation in Italy leading to increasing debt stock

Source: Credit Suisse Locus



Theme: Trade ranges in core spreads

- We expect range trading to be dominant theme within core countries
- The ranges are likely to remain relatively tight in absence of severe market stress
- We see lower end of the range of each country's spread to Germany at 10bp and the upper end at 25bp
- We expect the Netherlands to have the tightest spread to Germany followed by Finland and then Austria



Market Impact

- Given current valuations, we recommend overweight positions in Germany and the Netherlands and underweight positions in Austria and Finland

Core country spreads to Germany



Source: Credit Suisse Locus

Trade Idea: Sell 10y Austria vs. 10y Netherlands

Current level: 2bp

Target/Stop-Out: 7bp / -2bp

Rationale

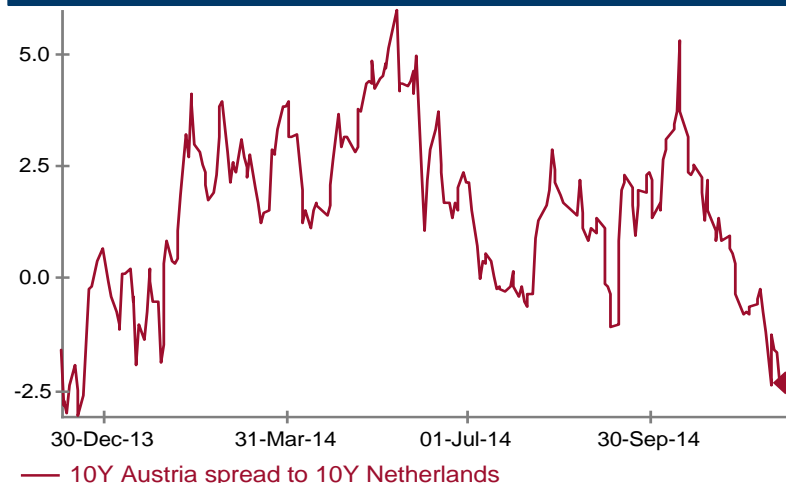
- Dutch 2015 growth likely to be stronger than Austrian 2015 growth
- Dutch pension system is fully funded
- Austria's banking sector has substantial exposure to Russia. Including exposure that is either Austrian or Italian increases Austrian exposure to approximately €28 billion or 9% of GDP.

Risks

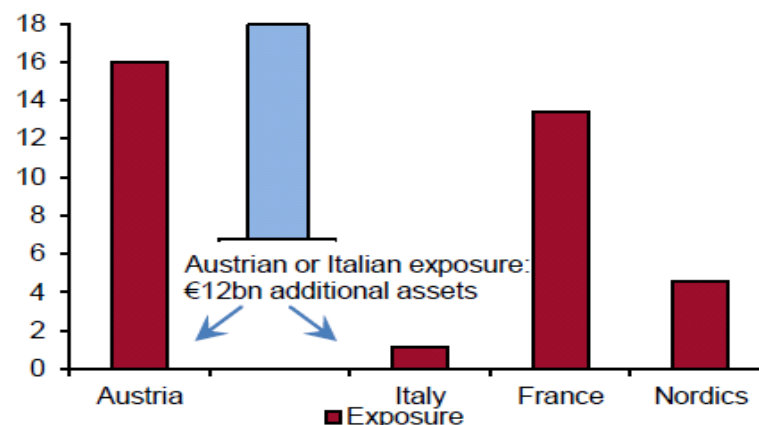
- ECB QE would be 3.8x net funding in Austria versus 2.4x net funding in the Netherlands

Source: Credit Suisse, Company reports

Austria is trading very tight versus the Netherlands



Austrian banks exposed to Russia



Trade Idea: Sell 10y Finland vs. 10y Netherlands

Current level: -4bp

Target/Stop-Out: 1bp/-8bp

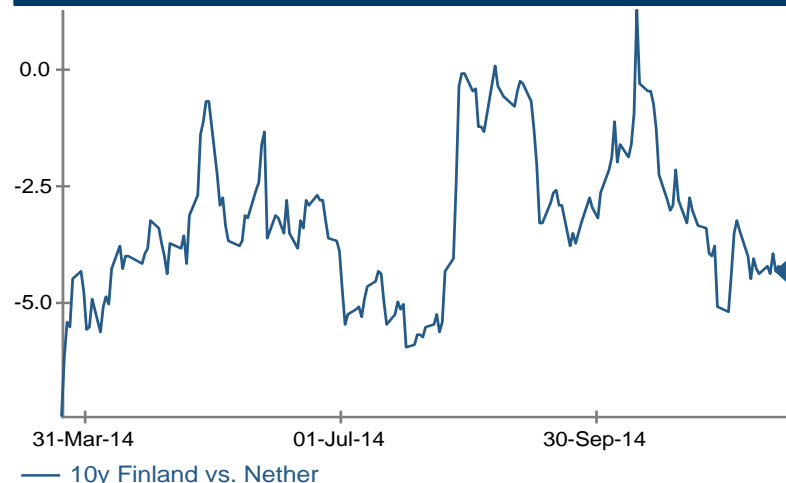
Rationale

- Our economists think that Finland will be among the worst economic performers in the euro area
- Finnish competitiveness worse than its peers and Italy or France
- Finland has the highest export exposure to Russia and the second highest imports from Russia. A deterioration in trade with Russia would be another downside risk for the Finnish economy

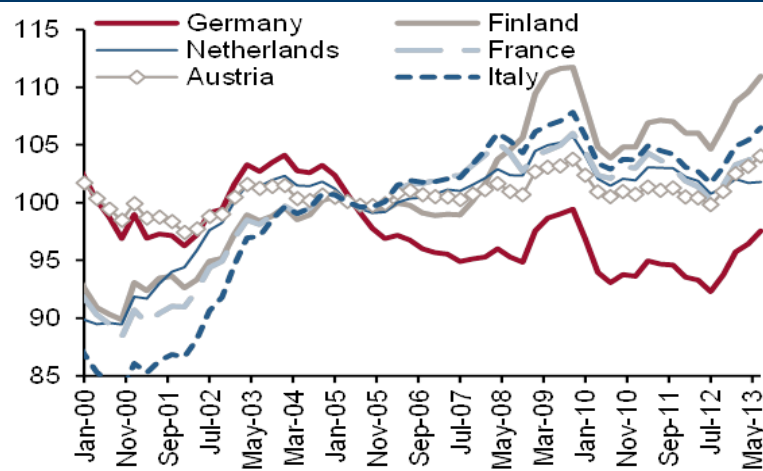
Risks

- Renewed weakness of the Dutch housing market

Finland trading very tight versus the Netherlands



Finnish competitiveness worse than Italian one



Source: Credit Suisse, European Commission

UK Rates

Thematic trade Ideas:

- GBP 1y1y vs. 2y1y steepeners
- UKT 10s30s curve flatteners
- Short 5y5y RPI
- Short 10y UKT ASW spreads

Theme: The US – UK – Euro “tug-of-war”

- Policy divergence between the Fed and ECB is a key theme for 2015, but...
- ...which route will the UK follow?
- The market is increasingly pricing for the UK to “become more European” and for its monetary policy cycle to diverge from that of the US
- We think the MPC will begin to tighten policy in 2015. However, given (i) the UK’s close ties to the euro area and (ii) uncertainty around the election, we expect the Fed to move first

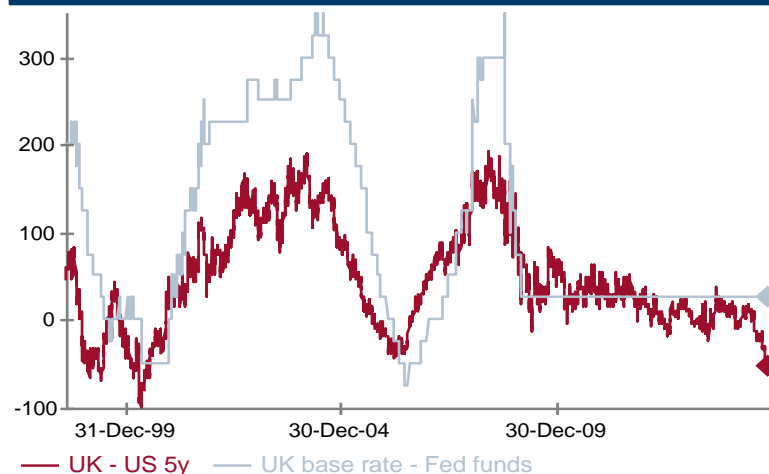
Source: Credit Suisse Locus



Market Impact

- We think GBP-EUR spreads should remain fairly range-bound and we look to trade around this
- Our favoured UK vs. US expression is via inflation: short 5y5y RPI vs. US
- We discuss these two trades in our cross-market section

Market pricing Fed to diverge away from MPC



Theme: Conflicting forces facing gilts

- The US vs. euro “tug-of-war” is at the heart of the conflicting forces facing gilts in 2015
- We think yields should stay low in the near-term, before moving gradually higher
- Hence we avoid outright short positions but favour trades with a bearish bias
- Trading will be tactical, and timing is key



Market Impact

- We recommend front-end steepeners and long-end flatteners
- For the risk that we remain in a low yield, low inflation environment, we favour being short 5y5y RPI
- Given rising fiscal and political uncertainty, we are short 10y ASW spreads

Reasons for HIGHER yields

- Above-trend domestic growth
- Strong US data
- ECB QE if substantial enough to be deemed likely to be effective
- Fiscal slippage/rising domestic political risk

Reasons for LOWER yields

- Low inflation outlook
- Search for yield
- Threat of rising political risk in the euro periphery
- Increased fiscal consolidation

Trade Idea: GBP 1y1y vs. 2y1y steepeners

Current level: 47bp

Target/Stop-Out: 65bp/37bp

Rationale

- Market is already pricing the MPC to continue to provide a large amount of monetary accommodation in the coming years
- The rising risk that the MPC delays tightening until higher inflation/wage growth comes through – and then has to hike more aggressively – is underpriced by the market

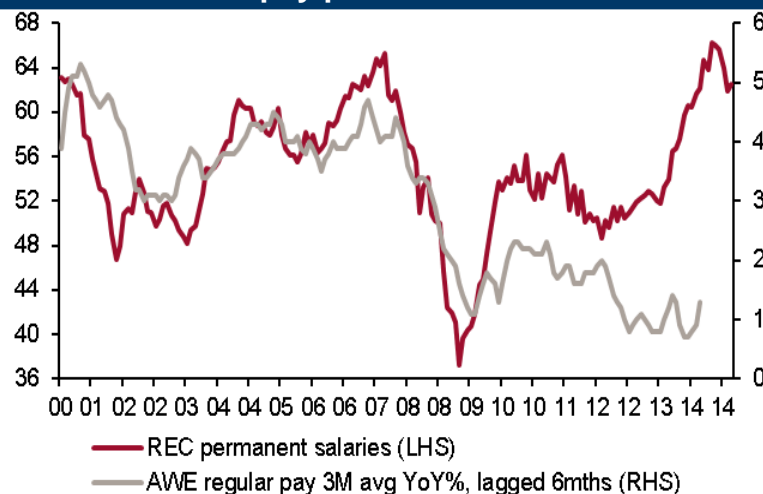
Risks

- Wage growth remains weak or low inflation shows signs of feeding negatively into inflation expectations which cause rate hikes to be pushed even further out

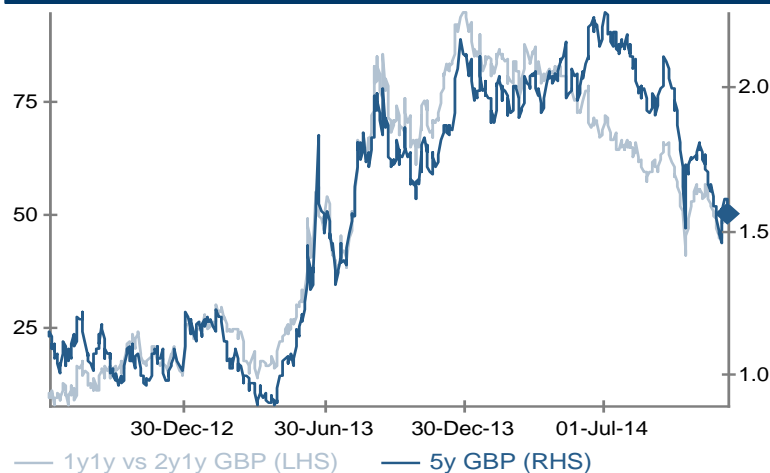
Link to [full report](#)

Source: Credit Suisse Locus, the BLOOMBERG PROFESSIONAL™ service

The pay puzzle in the UK



Bearish via front-end steepeners



Trade Idea: UKT 10s30s curve flatteners

Current level: 75bp

Target/Stop-Out: 50bp/90bp

Rationale

- We struggle to see the curve steepening regardless of whether yields rise or fall; the typical directionality between the curve and level of rates has broken down in 2014
- 30y gilts should remain well supported due to (i) structural demand (ii) unsynchronised global recovery (iii) global disinflationary pressure (iv) grab for yield (v) lower risk premia
- 10y sector should bear the brunt of any sell-off

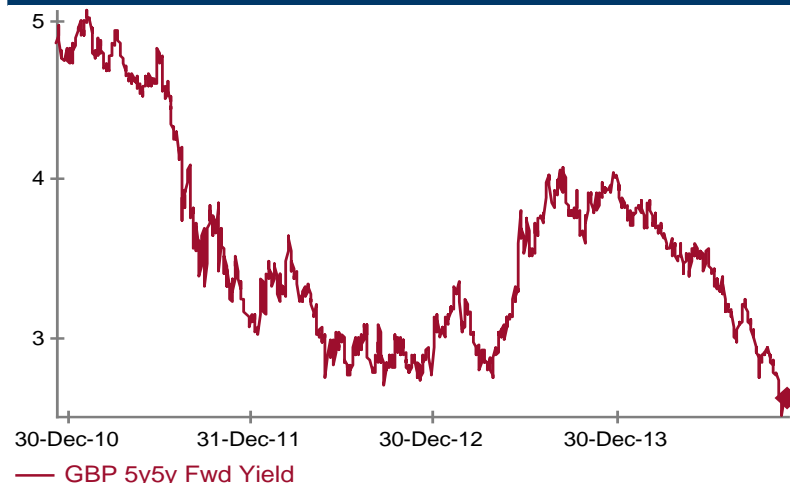
Risks

- Renewed flight-to-quality bid for gilts, perhaps due to renewed debt sustainability/political risks in the euro area

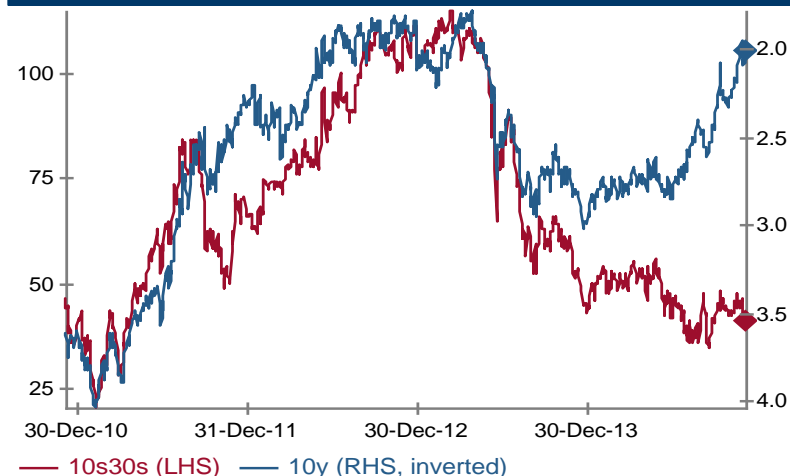
Link to [full report](#)

Source: Credit Suisse Locus

5y5y back to QE2 levels



Typical directionality has broken down in 2014



Trade Idea: Short 5y5y RPI

Current level: 3.37%; Target entry level: 3.43%

Target/Stop-Out: 3.30%/3.50%

Rationale

- The market is pricing low inflation to be a very temporary phenomenon in the UK
- We think the risks to this lie firmly on the downside
- 5y5y breakevens are inconsistent with the level of nominal rates: if nominals are being supported by rate expectations being pushed out due to growing disinflation concerns, then 5y5y inflation should be lower
- Positive carry

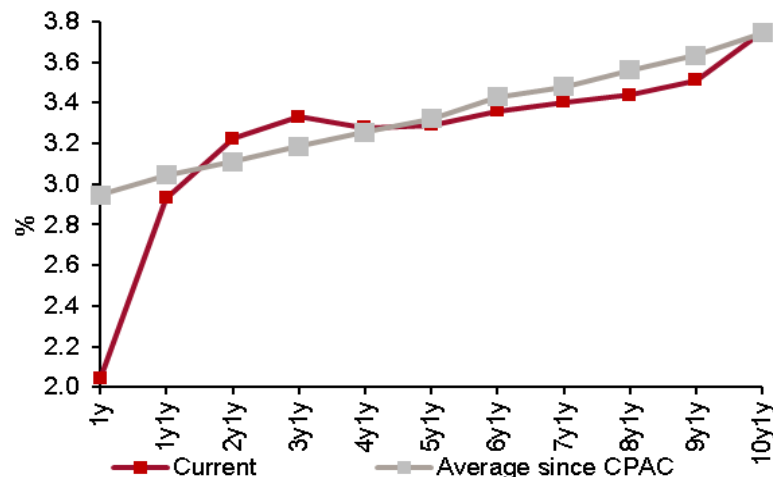
Risks

- Signs of rising domestically generated inflation pressure in the UK

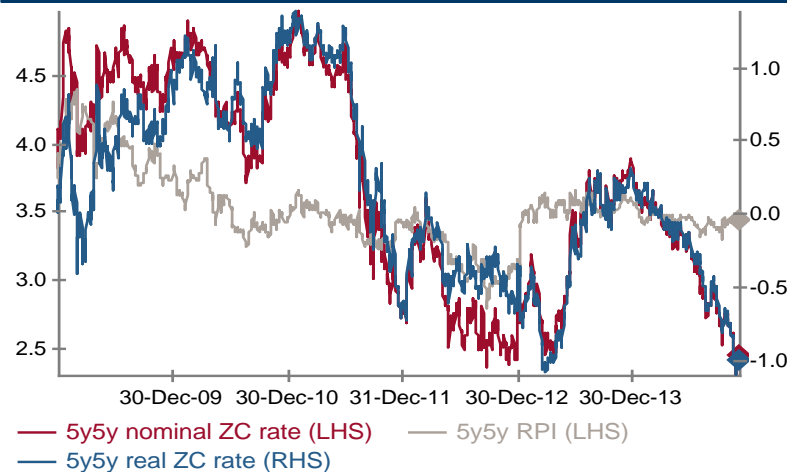
Link to [full report](#)

Source: Credit Suisse Locus

1y forward BE curve: spot and average since CPAC



5y5y BEs inconsistent with level of nominal rates



Trade Idea: Short 10y UKT ASW

Current level: -8.8bp

Target/Stop-Out: 0bp/-13bp

Rationale

- Rising fiscal and political risks should weigh on asset swap spreads
- Position for uncertainty over the outcome of the election, commitment to fiscal consolidation and the future of the UK as part of the EU
- We favour shorts via 10y spreads as: (i) overseas investors are most sensitive to these risks (ii) current valuations are supportive (10s30s box and 5s10s30s fly)
- Alternatively, we recommend being short 10y UKT on the 10s30s ASW box

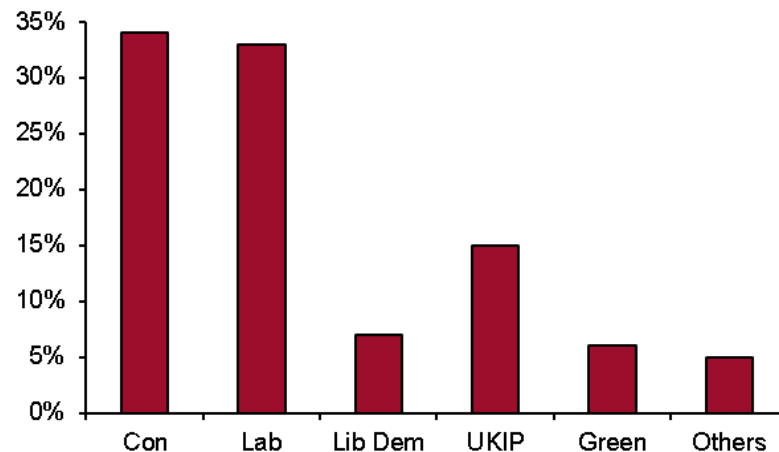
Risks

- 'Safe-haven' flows support gilt outperformance

Link to [full report](#)

Source: YouGov (poll from 7/8 Dec), Credit Suisse Locus, OBR

Current election polls are very tight



10y spreads rich on the 5s10s30s ASW fly



Cross Market Trade Ideas

Thematic trade Ideas:

- Receive EUR 2y1y versus USD
- Long US CPI 5y5y versus RPI
- Long Bund-Eonia against Gilt-Sonia ASW

Theme: Cross market trade ideas

Monetary policy divergence

- Receive EUR 2y1y versus USD
- Long BTP 2y versus 2y1y USD
- Play the range in 10y GBP-EUR

Inflation divergence

- Long US CPI 5y5y versus RPI
- Long US CPI 5y5y versus HICPxT

ASW – political risks in the UK and the periphery

- Long Bund-Eonia against Gilt-Sonia ASW

CHF-EUR spreads

- Play range in CHF-EUR 5y5y (receive CHF vs. EUR @ -30bp)

Source: Credit Suisse

Trade Idea: Pay USD 2y1y versus EUR 2y1y or BTP 2y

Current level: 171bp

Target/Stop-Out: 220bp / 140bp

Rationale

- US front-end should be a function of the domestic backdrop and of the Fed beginning hikes
- In Europe, we expect the front end to remain anchored on low growth and low inflation
- The threat of QE should lead to further front-end spread compression

Alternative

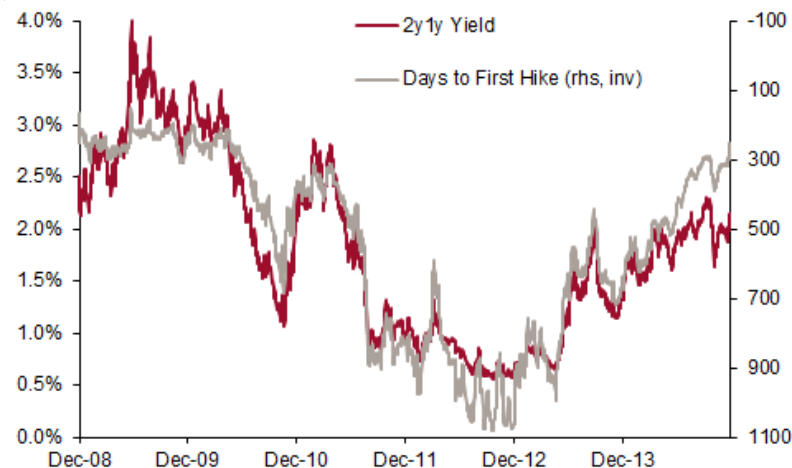
- Buy 2y Italy versus paying US 2y1y (current -150bp, target: -220bp, stop: -100bp)

Risks

- Fed remaining dovish
- Liquidity tightness in Europe persists for longer than expected

Source: Credit Suisse, the BLOOMBERG PROFESSIONAL™ service

2y1y US has generally tracked market hike pricing



BTP-US Spread an alternative to EUR-US



Trade Idea: Long 5y5y TIPS Breakevens vs. RPI

Target entry level: 128bps (Current: 121bps)

Target/Stop-Out: 100bps/ 145bps

Rationale

- We expect core inflation in the US to remain firm, which should allow 5y5y BEIs to bounce back from currently depressed levels
- In the UK we disagree with the optimistic pricing of the path of inflation over the coming years, and find the elevated level of 5y5y BEs inconsistent with 5y5y nominal rates
- Alternatively, we also like long 5y5y TIPS BEI vs. HICPxT positions

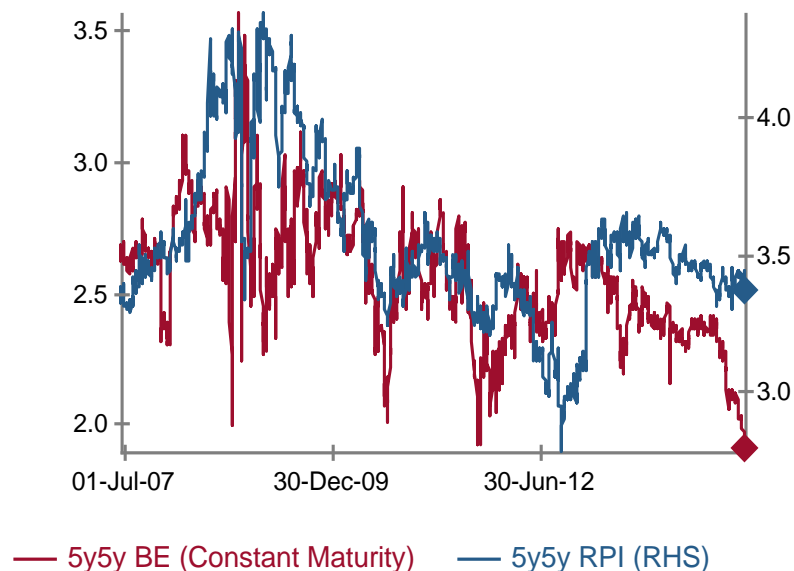
Risks

- Signs of rising domestically generated inflation pressure in the UK
- Downside surprises in US core inflation

Link to [full report](#)

Source: Credit Suisse, the BLOOMBERG PROFESSIONAL™ service

5y5y TIPS BE versus 5y5y RPI



Trade Idea: Long Bund-Eonia vs. Gilt-Sonia ASW

Current level: 15bp

Target/Stop-Out: 30bp / 10bp

Rationale

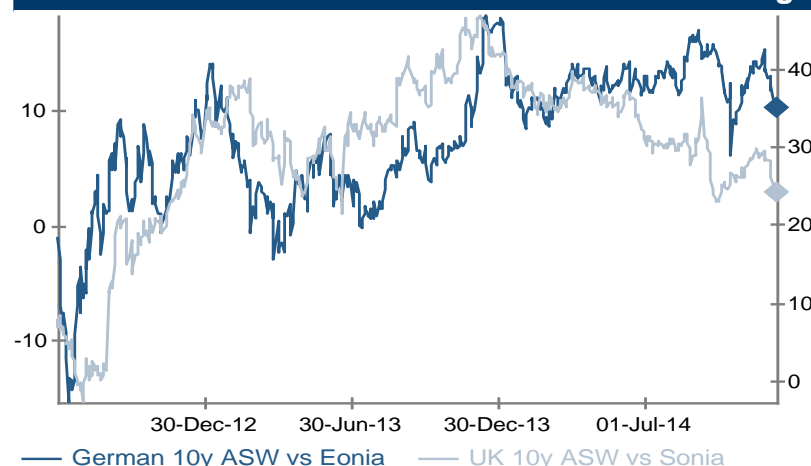
- In Europe, QE should support ASW spread widening. Rising political risks in the periphery should support core ASW spreads
- In contrast, rising political risks in the UK should weigh on UK ASW spreads in 2015
- We prefer trading the ASW view versus OIS rates to reduce the exposure to corporate supply in January

Risks

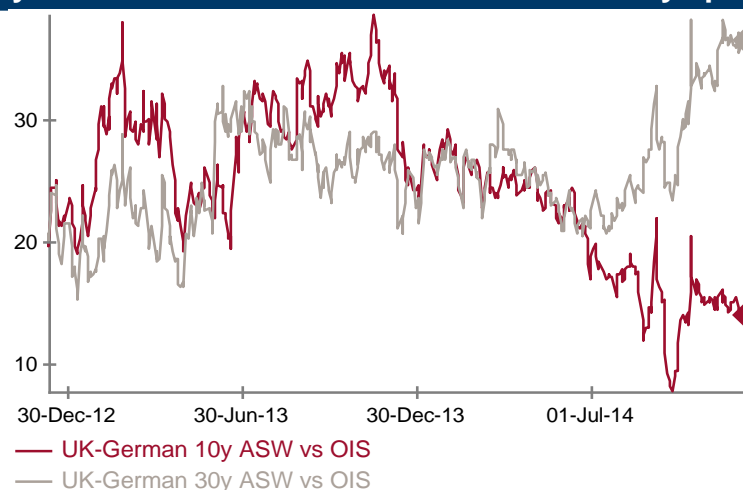
- Political risks do not emerge in the UK
- Data improves sharply in Europe

Source: Credit Suisse Locus

Correlation between Bund ASW & UK ASW too high



10y Gilt-Bund ASW should move closer to 30y spreads



Trade Idea: Play the range in 10y GBP – EUR

Current level: 107bp

Target/Stop-Out: Trade the 100-125bp range

Rationale

- We recommend playing the range in 10y GBP-EUR
- We struggle to see how the UK can completely decouple from the euro area
- In particular, the threat of a prolonged period of low inflation in the region, coupled with the close trading ties, should limit how far the GBP-EUR spread can widen
- We look to enter spread tighteners at 125bp and wideners at 100bp

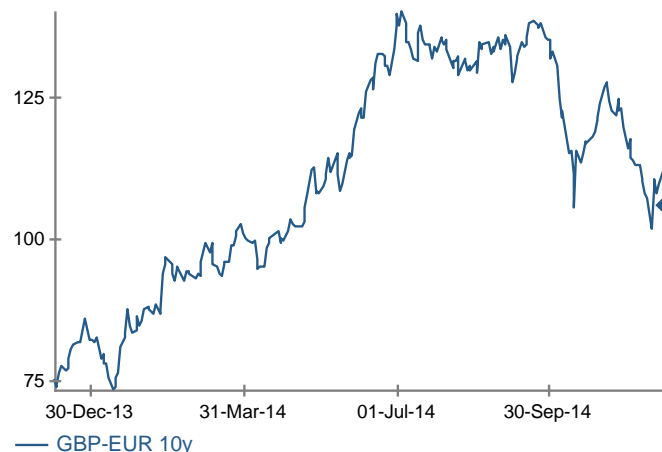
Risks

- Growth in the UK accelerates strongly generating high inflation, causing tighter policy

UK and Euro real rates are highly correlated



Trade the 10y GBP – EUR range (100-125bp)



Source: Credit Suisse Locus

Trade Idea: Trade range in CHF-EUR 5y5y

Current: -40bp; Entry: -30bp

Target / Stop: -50bp / -15bp

Rationale

- CHF lagged the rally in EUR as the market was reluctant to price any policy action from the SNB
- Over 2015, we would expect questioning of this assumption
- We expect CHF-EUR spreads to range trade – our bias is to receive CHF on a back up

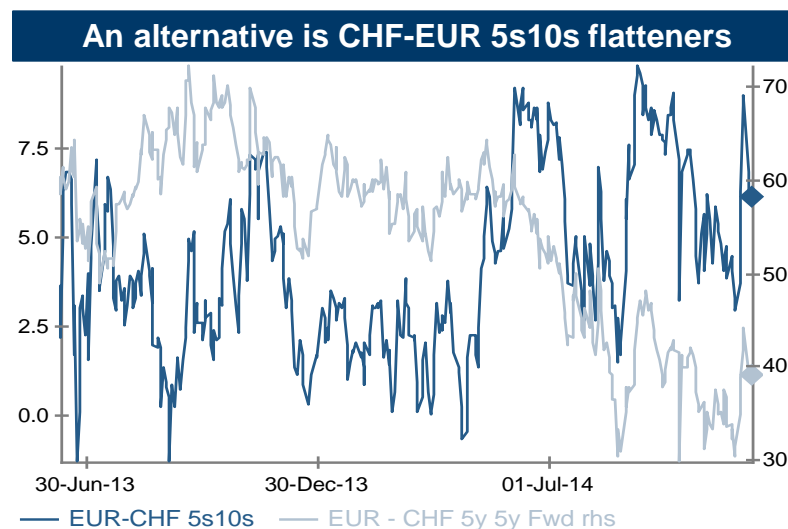
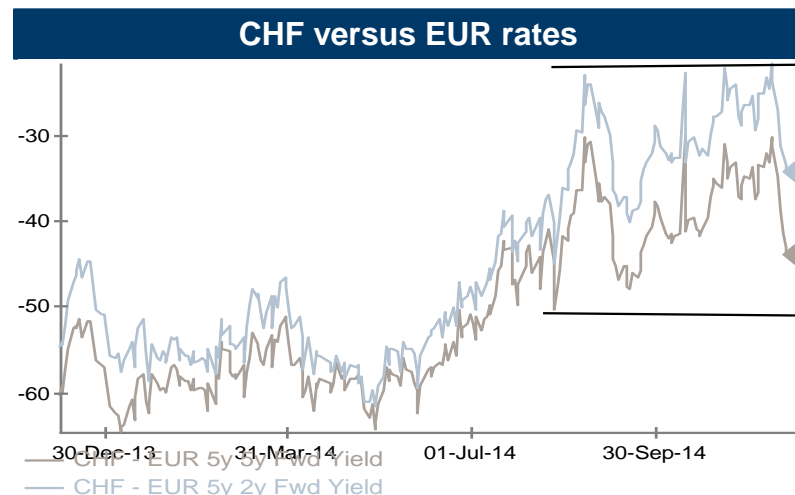
Alternative

- 5y2y CHF-EUR tighteners
- CHF 5s10s flattener vs. EUR

Risks

- No new policy response from the SNB
- Deflation in Europe

Source: Credit Suisse Locus



Credit Suisse 2015 Interest Rate Forecasts

US- Treasuries	2015 Q1	2015 Q2	2015 Q3	2015 Q4
Fed Funds	0 – 0.25	0.25 – 0.50	0.50 – 0.75	1.00-1.25
2-Yr Yield	0.65	1.25	1.75	2.00
5-Yr Yield	1.90	2.25	2.65	2.90
10-Yr Yield	2.65	2.85	3.10	3.35
30-Yr Yield	3.45	3.55	3.70	3.90
UK- Gilts	2015 Q1	2015 Q2	2015 Q3	2015 Q4
Base Rate	0.75	1.00	1.25	1.50
2-Yr Yield	0.70	0.80	0.95	1.25
5-Yr Yield	1.60	1.80	1.95	2.15
10-Yr Yield	2.00	2.35	2.50	2.75
30-Yr Yield	2.70	2.95	3.05	3.20
Euro – Germany	2015 Q1	2015 Q2	2015 Q3	2015 Q4
ECB Repo	0.05	0.05	0.05	0.05
2-Yr Yield	-0.05	-0.05	-0.05	-0.05
5-Yr Yield	0.10	0.20	0.30	0.40
10-Yr Yield	0.70	1.10	1.25	1.35
30-Yr Yield	1.80	1.95	2.05	2.15

Source: Credit Suisse

Trade Performance

US 2013 & 2014 Trade Statistics

	2014	2013	Past 2 years
The PnL/volatility("Sharpe") ratio:	0.52	3.15	2.22
Profit making trades	35	77	112
Total non-zero trades	72	129	201
Win:loss ratio	0.95	1.48	1.26
PnL of profitable trades	8,623,830	15,023,737	23,647,567
PnL of loss making trades	(7,177,447)	(8,802,183)	(15,979,630)
Net Pnl	1,446,384	6,221,554	7,667,938
PnL ratio of profitable to loss-making trades	1.20	1.71	1.48

European 2013 & 2014 Trade Statistics

	2014	2013	Past 2 years
The PnL/volatility("Sharpe") ratio:	2.44	1.93	1.96
Profit making trades	67	162	229
Total non-zero trades	111	240	351
Win:loss ratio	1.52	2.08	1.88
PnL of profitable trades	29,908,804	69,482,481	101,841,899
PnL of loss making trades	(11,073,170)	(31,689,372)	(45,213,156)
Net Pnl	18,835,634	37,793,109	56,628,743
PnL ratio of profitable to loss-making trades	2.70	2.19	2.25

Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. Information, opinions and estimates contained in this report reflect a judgment at the original date of publication by CS and are subject to change without notice. The price, value of and income from any of the securities or financial instruments mentioned in this report can fall as well as rise. The value of securities and financial instruments may be subject to exchange rate fluctuation that may have a positive or adverse effect on the price or income of such securities or financial instruments. The P&L results shown do not include relevant costs, such as commissions, interest charges, or other applicable expenses.

Please note all trades are available and marked daily in [Credit Suisse PLUS Analytics](https://plus.credit-suisse.com/r/tD5a3N).

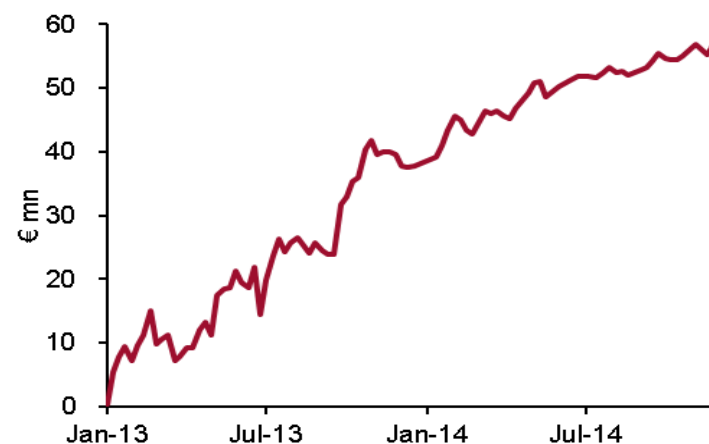
Link to latest P&L: <https://plus.credit-suisse.com/r/tD5a3N>

Source: Credit Suisse

US 2013 & 2014 Cumulative P&L



European 2013 & 2014 cumulative P&L



Disclosure Appendix

Analyst Certification

The analysts identified in this report each certify, with respect to the companies or securities that the individual analyzes, that (1) the views expressed in this report accurately reflect his or her personal views about all of the subject companies and securities and (2) no part of his or her compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this report.

Important Disclosures

Credit Suisse's policy is only to publish investment research that is impartial, independent, clear, fair and not misleading. For more detail, please refer to Credit Suisse's Policies for Managing Conflicts of Interest in connection with Investment Research: http://www.csfb.com/research-and-analytics/disclaimer/managing_conflicts_disclaimer.html

Credit Suisse's policy is to publish research reports as it deems appropriate, based on developments with the subject issuer, the sector or the market that may have a material impact on the research views or opinions stated herein.

The analyst(s) involved in the preparation of this research report received compensation that is based upon various factors, including Credit Suisse's total revenues, a portion of which are generated by Credit Suisse's Investment Banking and Fixed Income Divisions.

Credit Suisse may trade as principal in the securities or derivatives of the issuers that are the subject of this report.

At any point in time, Credit Suisse is likely to have significant holdings in the securities mentioned in this report.

As at the date of this report, Credit Suisse acts as a market maker or liquidity provider in the debt securities of the subject issuer(s) mentioned in this report.

For important disclosure information on securities recommended in this report, please visit the website at <https://firesearchdisclosure.credit-suisse.com> or call +1-212-538-7625.

For the history of any relative value trade ideas suggested by the Fixed Income research department as well as fundamental recommendations provided by the Emerging Markets Sovereign Strategy Group over the previous 12 months, please view the document at http://research-and-analytics.csfb.com/docpopup.asp?ctbdocid=330703_1_en. Credit Suisse clients with access to the Locus website may refer to <http://www.credit-suisse.com/locus>.

For the history of recommendations provided by Technical Analysis, please visit the website at <http://www.credit-suisse.com/techanalysis>.

Credit Suisse does not provide any tax advice. Any statement herein regarding any US federal tax is not intended or written to be used, and cannot be used, by any taxpayer for the purposes of avoiding any penalties.

Emerging Markets Bond Recommendation Definitions

Buy: Indicates a recommended buy on our expectation that the issue will deliver a return higher than the risk-free rate.

Sell: Indicates a recommended sell on our expectation that the issue will deliver a return lower than the risk-free rate.

Corporate Bond Fundamental Recommendation Definitions

Buy: Indicates a recommended buy on our expectation that the issue will be a top performer in its sector.

Outperform: Indicates an above-average total return performer within its sector. Bonds in this category have stable or improving credit profiles and are undervalued, or they may be weaker credits that, we believe, are cheap relative to the sector and are expected to outperform on a total-return basis. These bonds may possess price risk in a volatile environment.

Market Perform: Indicates a bond that is expected to return average performance in its sector.

Underperform: Indicates a below-average total-return performer within its sector. Bonds in this category have weak or worsening credit trends, or they may be stable credits that, we believe, are overvalued or rich relative to the sector.

Sell: Indicates a recommended sell on the expectation that the issue will be among the poor performers in its sector.

Restricted: In certain circumstances, Credit Suisse policy and/or applicable law and regulations preclude certain types of communications, including an investment recommendation, during the course of Credit Suisse's engagement in an investment banking transaction and in certain other circumstances.

Not Rated: Credit Suisse Global Credit Research or Global Leveraged Finance Research covers the issuer but currently does not offer an investment view on the subject issue.

Not Covered: Neither Credit Suisse Global Credit Research nor Global Leveraged Finance Research covers the issuer or offers an investment view on the issuer or any securities related to it. Any communication from Research on securities or companies that Credit Suisse does not cover is factual or a reasonable, non-material deduction based on an analysis of publicly available information.

Disclosure Appendix cont'd

Corporate Bond Risk Category Definitions

In addition to the recommendation, each issue may have a risk category indicating that it is an appropriate holding for an "average" high yield investor, designated as **Market**, or that it has a higher or lower risk profile, designated as **Speculative** and **Conservative**, respectively.

Credit Suisse Credit Rating Definitions

Credit Suisse may assign rating opinions to investment-grade and crossover issuers. Ratings are based on our assessment of a company's creditworthiness and are not recommendations to buy or sell a security. The ratings scale (AAA, AA, A, BBB, BB, B) is dependent on our assessment of an issuer's ability to meet its financial commitments in a timely manner. Within each category, creditworthiness is further detailed with a scale of High, Mid, or Low – with High being the strongest sub-category rating: **High AAA, Mid AAA, Low AAA** – obligor's capacity to meet its financial commitments is extremely strong; **High AA, Mid AA, Low AA** – obligor's capacity to meet its financial commitments is very strong; **High A, Mid A, Low A** – obligor's capacity to meet its financial commitments is strong; **High BBB, Mid BBB, Low BBB** – obligor's capacity to meet its financial commitments is adequate, but adverse economic/operating/financial circumstances are more likely to lead to a weakened capacity to meet its obligations; **High BB, Mid BB, Low BB** – obligations have speculative characteristics and are subject to substantial credit risk; **High B, Mid B, Low B** – obligor's capacity to meet financial commitments is very weak and highly vulnerable to adverse economic, operating, and financial circumstances; **High CCC, Mid CCC, Low CCC** – obligor's capacity to meet its financial commitments is extremely weak and is dependent on favorable economic, operating, and financial circumstances. Credit Suisse's rating opinions do not necessarily correlate with those of the rating agencies.

Credit Suisse's Distribution of Global Credit Research Recommendations* (and Banking Clients)

	Global Recommendation Distribution**	
Buy	11%	(of which 86% are banking clients)
Outperform	20%	(of which 60% are banking clients)
Market Perform	42%	(of which 61% are banking clients)
Underperform	25%	(of which 73% are banking clients)
Sell	2%	(of which 100% are banking clients)

*Data are as at the end of the previous calendar quarter.

**Percentages do not include securities on the firm's Restricted List and might not total 100% as a result of rounding.

Structured Securities, Derivatives, Options, and Futures Disclaimer

General risks: Structured securities, derivatives, options (OTC and listed), and futures (including, but not limited to, commodity, foreign exchange, and security futures) are complex instruments that are not suitable for every investor, may involve a high degree of risk, may be highly illiquid, and may be appropriate investments only for sophisticated investors who are capable of understanding and assuming the risks involved. **There is a risk of unlimited, total, or significant loss resulting from the use of these instruments for trading and investment.**

Before entering into any transaction involving these instruments, you should ensure that you fully understand their potential risks and rewards and independently determine that they are appropriate for you given your objectives, experience, financial and operational resources, and other relevant circumstances. For options, please ensure that you have read the Options Clearing Corporation's disclosure document, available at: <http://www.optionsclearing.com/publications/risks/riskchap1.jsp>.

Risk of losses on options: The maximum potential loss on buying a call or put option is the loss of total premium paid. The maximum potential loss on selling a call option is unlimited. The maximum potential loss on selling a put option is substantial and may exceed the premium received by a significant amount. There are many other options combinations that entail significant risks and transaction costs: you should ensure they are appropriate for your situation and that you understand the risks.

Risk of losses on futures: The maximum potential loss on buying a futures contract is substantial (the loss of the value of the contract) and can be amplified by leverage. The maximum potential loss on selling a futures contract is unlimited.

OTC options and other derivatives: In discussions of OTC options and other derivatives, the results and risks are based solely on the hypothetical examples cited; actual results and risks will vary depending on specific circumstances. Investors are urged to consider carefully whether these products, as well as the products or strategies discussed herein, are suitable to their needs. While some OTC markets may be liquid, transactions in OTC derivatives may involve greater risk than investments in exchange-listed derivatives because there is no exchange market on which to liquidate a position and it may be very difficult to assess the value of the position because bid and offer prices need not be quoted.

Structured products: These products often have a derivative component. As a result, they carry not only the risk of loss of principal, but also the possibility that at expiration the investor will own the reference asset at a depressed price. Even if a structured product is listed on an exchange, active and liquid trading markets may not develop and the structured product may be thinly traded.

Taxation: Because of the importance of tax considerations for many option and other derivative transactions, investors considering these products should consult with their tax advisors as to how taxes affect the outcome of contemplated options or other derivatives transactions. You should consult with such tax, accounting, legal or other advisors as you deem necessary to assist you in making these determinations.

Transaction costs: Such costs may be significant in option strategies calling for multiple purchases and sales of options and other derivatives, such as spreads and straddles. Commissions and transaction costs may be a factor in actual returns realized by the investor and should be taken into consideration.

Trading on margin: Margin requirements vary and should be determined before investing as they can impact your profit potential. If the market moves against your position, you may be called upon by your broker to deposit a substantial amount of additional margin funds, on short notice, in order to maintain your position. If you do not provide the required funds within the time required by your broker, your position may be liquidated at a loss, and you will be liable for any resulting deficit in your account.

Further information: Supporting documentation for any claims, comparisons, recommendations, statistics or other technical data in this material will be supplied upon request. Any trade information is preliminary and not intended as an official transaction confirmation. If you have any questions about whether you are eligible to enter into these transactions with Credit Suisse, please contact your sales representative.

Disclosure Appendix cont'd

References in this report to Credit Suisse include all of the subsidiaries and affiliates of Credit Suisse operating under its investment banking division. For more information on our structure, please use the following link: <https://www.credit-suisse.com/who-we-are/en>. This report may contain material that is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or which would subject Credit Suisse AG or its affiliates ("CS") to any registration or licensing requirement within such jurisdiction. All material presented in this report, unless specifically indicated otherwise, is under copyright to CS. None of the material, nor its content, nor any copy of it, may be altered in any way, transmitted to, copied or distributed to any other party, without the prior express written permission of CS. All trademarks, service marks and logos used in this report are trademarks or service marks or registered trademarks or service marks of CS or its affiliates. The information, tools and material presented in this report are provided to you for information purposes only and are not to be used or considered as an offer or the solicitation of an offer to sell or to buy or subscribe for securities or other financial instruments. CS may not have taken any steps to ensure that the securities referred to in this report are suitable for any particular investor. CS will not treat recipients of this report as its customers by virtue of their receiving this report. The investments and services contained or referred to in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about such investments or investment services. Nothing in this report constitutes investment, legal, accounting or tax advice, or a representation that any investment or strategy is suitable or appropriate to your individual circumstances, or otherwise constitutes a personal recommendation to you. CS does not advise on the tax consequences of investments and you are advised to contact an independent tax adviser. Please note in particular that the bases and levels of taxation may change. Information and opinions presented in this report have been obtained or derived from sources believed by CS to be reliable, but CS makes no representation as to their accuracy or completeness. CS accepts no liability for loss arising from the use of the material presented in this report, except that this exclusion of liability does not apply to the extent that such liability arises under specific statutes or regulations applicable to CS. This report is not to be relied upon in substitution for the exercise of independent judgment. CS may have issued, and may in the future issue, other communications that are inconsistent with, and reach different conclusions from, the information presented in this report. Those communications reflect the different assumptions, views and analytical methods of the analysts who prepared them and CS is under no obligation to ensure that such other communications are brought to the attention of any recipient of this report. Some investments referred to in this report will be offered solely by a single entity and in the case of some investments solely by CS, or an associate of CS or CS may be the only market maker in such investments. Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. Information, opinions and estimates contained in this report reflect a judgment at its original date of publication by CS and are subject to change without notice. The price, value of and income from any of the securities or financial instruments mentioned in this report can fall as well as rise. The value of securities and financial instruments is subject to exchange rate fluctuation that may have a positive or adverse effect on the price or income of such securities or financial instruments. Investors in securities such as ADR's, the values of which are influenced by currency volatility, effectively assume this risk. Structured securities are complex instruments, typically involve a high degree of risk and are intended for sale only to sophisticated investors who are capable of understanding and assuming the risks involved. The market value of any structured security may be affected by changes in economic, financial and political factors (including, but not limited to, spot and forward interest and exchange rates), time to maturity, market conditions and volatility, and the credit quality of any issuer or reference issuer. Any investor interested in purchasing a structured product should conduct their own investigation and analysis of the product and consult with their own professional advisers as to the risks involved in making such a purchase. Some investments discussed in this report may have a high level of volatility. High volatility investments may experience sudden and large falls in their value causing losses when that investment is realised. Those losses may equal your original investment. Indeed, in the case of some investments the potential losses may exceed the amount of initial investment and, in such circumstances, you may be required to pay more money to support those losses. Income yields from investments may fluctuate and, in consequence, initial capital paid to make the investment may be used as part of that income yield. Some investments may not be readily realisable and it may be difficult to sell or realise those investments, similarly it may prove difficult for you to obtain reliable information about the value, or risks, to which such an investment is exposed. This report may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the report refers to website material of CS, CS has not reviewed any such site and takes no responsibility for the content contained therein. Such address or hyperlink (including addresses or hyperlinks to CS's own website material) is provided solely for your convenience and information and the content of any such website does not in any way form part of this document. Accessing such website or following such link through this report or CS's website shall be at your own risk. This report is issued and distributed in Europe (except Switzerland) by Credit Suisse Securities (Europe) Limited, One Cabot Square, London E14 4QJ, England, which is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. This report is being distributed in Germany by Credit Suisse Securities (Europe) Limited Niederlassung Frankfurt am Main regulated by the Bundesanstalt fuer Finanzdienstleistungsaufsicht ("BaFin"). This report is being distributed in the United States and Canada by Credit Suisse Securities (USA) LLC; in Switzerland by Credit Suisse AG; in Brazil by Banco de Investimentos Credit Suisse (Brasil) S.A. or its affiliates; in Mexico by Banco Credit Suisse (Mexico), S.A. (transactions related to the securities mentioned in this report will only be effected in compliance with applicable regulation); in Japan by Credit Suisse Securities (Japan) Limited, Financial Instruments Firm, Director-General of Kanto Local Finance Bureau (Kinsho) No. 66, a member of Japan Securities Dealers Association, The Financial Futures Association of Japan, Japan Investment Advisers Association, Type II Financial Instruments Firms Association; elsewhere in Asia/Pacific by whichever of the following is the appropriately authorised entity in the relevant jurisdiction: Credit Suisse (Hong Kong) Limited, Credit Suisse Equities (Australia) Limited, Credit Suisse Securities (Thailand) Limited, regulated by the Office of the Securities and Exchange Commission, Thailand, having registered address at 990 Abdulrahman Place, 27th Floor, Rama IV Road, Silom, Bangkok, Bangkok 10500, Thailand, Tel. +66 2614 6000, Credit Suisse Securities (Malaysia) Sdn Bhd, Credit Suisse AG, Singapore Branch, Credit Suisse Securities (India) Private Limited (CIN no. U67120MH1996PTC104392) regulated by the Securities and Exchange Board of India (registration Nos. INB230970637; INF230970637; INB010970631; INF010970631), having registered address at 9th Floor, Ceejay House, Dr.A.B. Road, Worli, Mumbai - 18, India, T- +91-22 6777 3777, Credit Suisse Securities (Europe) Limited, Seoul Branch, Credit Suisse AG, Taipei Securities Branch, PT Credit Suisse Securities Indonesia, Credit Suisse Securities (Philippines) Inc., and elsewhere in the world by the relevant authorised affiliate of the above. Research on Taiwanese securities produced by Credit Suisse AG, Taipei Securities Branch has been prepared by a registered Senior Business Person. Research provided to residents of Malaysia is authorised by the Head of Research for Credit Suisse Securities (Malaysia) Sdn Bhd, to whom they should direct any queries on +603 2723 2020. This report has been prepared and issued for distribution to institutional investors, accredited investors and expert investors (each as defined under the Financial Advisers Regulations) only, and is also distributed by Credit Suisse AG, Singapore branch to overseas investors (as defined under the Financial Advisers Regulations). By virtue of your status as an institutional investor, accredited investor, expert investor or overseas investor, Credit Suisse AG, Singapore branch is exempted from complying with certain compliance requirements under the Financial Advisers Act, Chapter 110 of Singapore (the "FAA"), the Financial Advisers Regulations and the relevant Notices and Guidelines issued thereunder, in respect of any financial advisory service which Credit Suisse AG, Singapore branch may provide to you. This research may not conform to Canadian disclosure requirements. In jurisdictions where CS is not already registered or licensed to trade in securities, transactions will only be effected in accordance with applicable securities legislation, which will vary from jurisdiction to jurisdiction and may require that the trade be made in accordance with applicable exemptions from registration or licensing requirements. Non-U.S. customers wishing to effect a transaction should contact a CS entity in their local jurisdiction unless governing law permits otherwise. U.S. customers wishing to effect a transaction should do so only by contacting a representative at Credit Suisse Securities (USA) LLC in the U.S. Please note that this research was originally prepared and issued by CS for distribution to their market professional and institutional investor customers. Recipients who are not market professional or institutional investor customers of CS should seek the advice of their independent financial advisor prior to taking any investment decision based on this report or for any necessary explanation of its contents. This research may relate to investments or services of a person outside of the UK or to other matters which are not authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority or in respect of which the protections of the Prudential Regulation Authority and Financial Conduct Authority for private customers and/or the UK compensation scheme may not be available, and further details as to where this may be the case are available upon request in respect of this report. CS may provide various services to US municipal entities or obligated persons ("municipalities"), including suggesting individual transactions or trades and entering into such transactions. Any services CS provides to municipalities are not viewed as "advice" within the meaning of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act. CS is providing any such services and related information solely on an arm's length basis and not as an advisor or fiduciary to the municipality. In connection with the provision of the any such services, there is no agreement, direct or indirect, between any municipality (including the officials, management, employees or agents thereof) and CS for CS to provide advice to the municipality. Municipalities should consult with their financial, accounting and legal advisors regarding any such services provided by CS. In addition, CS is not acting for direct or indirect compensation to solicit the municipality on behalf of an unaffiliated broker, dealer, municipal securities dealer, municipal advisor, or investment adviser for the purpose of obtaining or retaining an engagement by the municipality for or in connection with Municipal Financial Products, the issuance of municipal securities, or of an investment adviser to provide investment advisory services to or on behalf of the municipality. If this report is being distributed by a financial institution other than Credit Suisse AG, or its affiliates, that financial institution is solely responsible for distribution. Clients of that institution should contact that institution to effect a transaction in the securities mentioned in this report or require further information. This report does not constitute investment advice by Credit Suisse to the clients of the distributing financial institution, and neither Credit Suisse AG, its affiliates, and their respective officers, directors and employees accept any liability whatsoever for any direct or consequential loss arising from their use of this report or its content. Principal is not guaranteed. Commission is the commission rate or the amount agreed with a customer when setting up an account or at any time after that.

Copyright © 2014 CREDIT SUISSE AG and/or its affiliates. All rights reserved.

Investment principal on bonds can be eroded depending on sale price or market price. In addition, there are bonds on which investment principal can be eroded due to changes in redemption amounts. Care is required when investing in such instruments.

When you purchase non-listed Japanese fixed income securities (Japanese government bonds, Japanese municipal bonds, Japanese government guaranteed bonds, Japanese corporate bonds) from CS as a seller, you will be requested to pay the purchase price only.