

Ukraine. Monthly Market Overview

February 2014



Ukraine Sovereign Ratings

LCY rating	S&P	Moody's	Fitch
Long-term	B-	Caa1	B-
Short-term	B	-	-
Outlook	Negative	Negative	Negative
FCY rating			
Long-term	CCC+	Caa2	CCC
Short-term	C	NP	C
Outlook	Negative	Negative	Negative
Latest assessment	28/01/14	31/01/14	07/02/14



Financial Markets team

Ukraine. Monthly Market Overview. February 2014

Major Macroeconomic Trends



MACROECONOMIC INDICATORS - evolution

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013E*	2014F*	2015F*
Nominal GDP (USDbn)	38.0	42.4	49.5	64.9	86.2	107.7	142.7	129.0	117.4	136.2	165	174	177	192	205
Real GDP growth (%)	9.2	5.2	9.4	12.1	2.7	7.3	7.9	2.1	-14.8	4.2	5.2	0.2	0.0	1.8	2.9
Inflation CPI (%)	6.1	0.6	8.2	12.3	10.3	11.6	16.6	22.3	12.3	9.1	4.6	-0.2	0.5	5.0	7.0
Industrial production (%)	14.2	7.0	15.8	12.5	3.1	6.2	10.2	-3.1	-21.9	11.0	7.6	-1.8	-4.5	2.8	2.5
Producer prices index (%) YoY			7.6	20.5	16.7	9.6	19.5	35.5	6.5	20.9	19.0	0.3	4.7	5.6	5.5
Exports (USDbn)	20.1	23.4	28.9	41.3	44.4	50.2	64.0	78.7	39.7	51.4	68.4	68.8	72.2	77.6	83.6
Imports (USDbn)	17.7	21.5	27.7	36.3	43.7	53.3	72.1	92.2	45.4	60.7	82.6	84.6	90.4	93.6	96.6
Public debt (% of GDP)	37.1	33.5	29.0	24.8	18.0	14.8	12.0	13.7	32.2	39.7	35.8	37.0	38.2	39.2	39.0
Current account (% of GDP)	3.7	7.5	5.8	10.7	2.9	-1.5	-3.6	-7.1	-1.5	-2.2	-5.5	-8.5	-9.2	-6.6	-4.7
Net FDI inflow over year NBU methodology (USDbn)	0.8	0.7	1.4	1.7	7.5	5.7	9.2	9.9	4.7	5.8	7.0	6.6	3.8	3.7	4.6

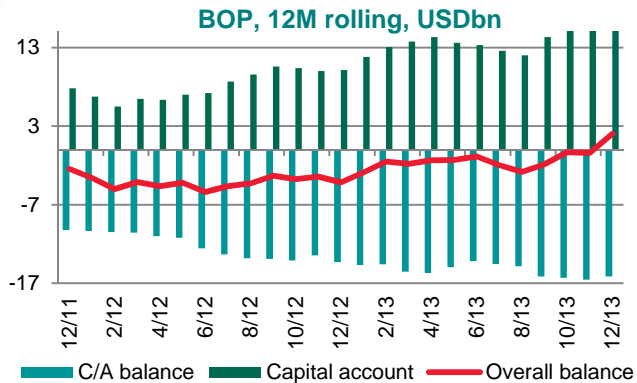
EXCHANGE RATES - evolution

USD/UAH average	5.37	5.33	5.333	5.31	5.12	5.05	5.05	5.32	7.79	7.93	7.97	8.02	8.16	8.79	9.33
EUR/UAH average	5.1	5.02	6.02	6.61	6.38	6.26	6.92	7.78	10.88	10.52	11.09	10.31	10.81	11.63	11.84
UAH O/N average	16	3.5	6.5	5.3	3.5	4.0	3.5	11.3	8.4	1.5	5.7	11.9	2.7	2.5	1.9

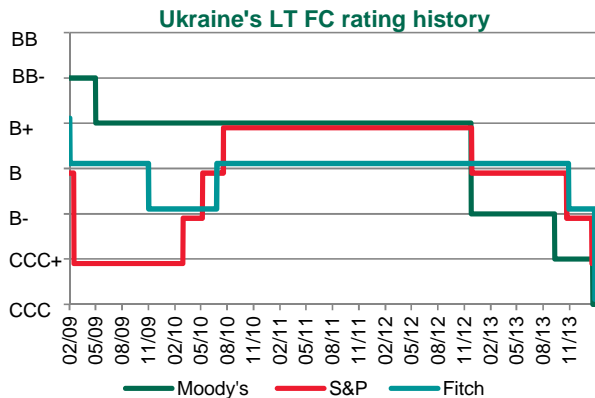
- Ukraine's political crisis has not been resolved yet**, and January was rather volatile. The escalation occurred in the middle of the month, when the parliament approved laws significantly limiting Ukrainian citizens' freedoms and human rights. Facing pressure both domestically and externally, state officials had to make concessions, the parliament repealed the restrictive laws and the government resigned. However, the parties did not reach a full agreement, and thus the crisis was not ended. We think **the situation may last for several more weeks, while a further protraction in negotiations would hurt both country risks and economic recovery prospects**.
- The fall of the government has raised concerns among Russian officials regarding the permanence of Ukraine's cooperation strategy with Russia. This has increased the risk of interruptions to the provision of new financial assistance from Russia. **Having no immediate financial support from either Russia or the West, Ukraine still has around a month to stabilise its external financing flows**, as sharper external debt repayments will fall on March.
- Continuing mass unrest and dismissal of the **government prompted Western officials to think about providing financial help to Ukraine in place of the Russian package**. In particular, the EU and the US are discussing the possibility of providing both own financing and a new loan from the IMF, amounting to enough to allow Ukraine to refuse the Russian financing line (around USD15bn). This may be an additional factor pushing Ukrainian officials to think about changing external policy more towards the EU. We think this **decision will depend a great deal on Ukrainian top officials' ability to find political consensus to calm the protests**.

Ukraine. Monthly Market Overview. February 2014

Major Macroeconomic Trends



Sources: NBU, Credit Agricole



Forecasts	GDP, % YoY
Q413	3.7%
Q114	1.9%
Q214	2.6%
Q314	1.9%

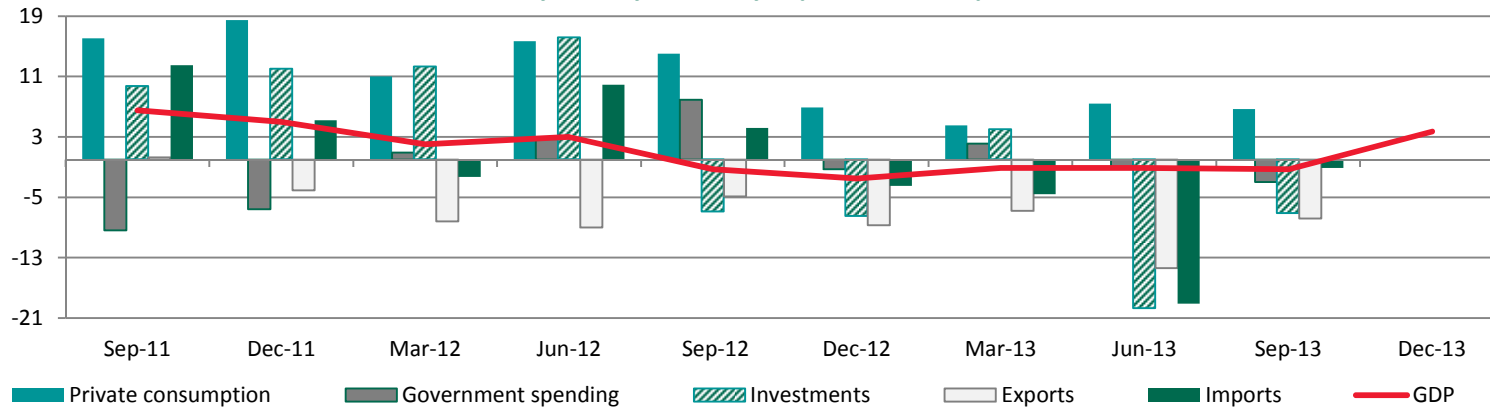
Source: Credit Agricole

- The first signs of potential external risks had already occasioned the rating agencies to review their Ukrainian sovereign ratings. In particular, **the resignation of the government and the potential (but as yet unproved) risk of no additional financing from Russia induced S&P and Moody's to downgrade the sovereign rating by one notch to CCC+ and Caa2, respectively**, with a negative outlook. However, Fitch downgraded the rating by two notches at once on same factors. It has already become practice that **rating agencies downgrade Ukraine's sovereign rating ahead of risks anticipated by them**, even though the probability of these risks is less than 50%. We think the recent rating downgrade reflects the same tactics by the rating agencies. However, risks mentioned by all agencies may be rather short-lived, as **the situation should return to normal once political consensus is found and a new government appointed**.
- By basing their views mostly on negative potential factors, the **rating agencies did not consider fully any positive potential factors**, such as the intentions of both the EU and US to provide joint financial assistance to Ukraine as soon as a new government is appointed.
- Statistics **on economic performance over December** do not show the public unrest having a major impact on most sectors. The only worsening performance was recorded in the construction sector, while other sectors showed improvement, mostly off last year's low comparison base. Agriculture still leads the race, with solid YoY growth of 45.4% in December due to an abundant grain harvest and a shift in the harvesting season. We think the **same effect will guide economic dynamics in January, weakened by continuing public unrest in the country**.
- Preliminary estimates of State Statistics office shows 3.7% YoY GDP growth over Q413**, considerably below of both our (0.7%) and consensus (1.1%) forecasts. Such a high figure affected preliminary estimate of GDP dynamics at 0% over the whole 2013. **We think the figure will be adjusted downwards soon**.
- Overly optimistic government macroeconomic projections in 2013 played a part in budget targets being missed last year** in both revenues (underfunding by 6%) and expenditures (2% lower than planned). **This widened the budget deficit to 4.5% of GDP**, while the loan from Russia at the end of December and heavy domestic borrowing (with the bulk of bonds purchased by the NBU) provided the necessary financing for the budget deficit last year.
- The budget for 2014 is again based on optimistic macroeconomic projections** (3.0% and 8.0% for GDP and CPI against our forecasts of 1.8% and 5.0%, respectively). Hence, the core scenario for government finances this year may be the underfunding of budget revenues as well as **the budget deficit widening to around 6% of GDP in a pre-election year** (versus 5% projected in the budget).
- Financial assistance of USD3.0bn from Russia in the few weeks before the year-end **stabilised the BOP and moved it into positive territory for the whole of 2013 (USD2.0bn)**. The accumulation of arrears for gas delivered from Russia over last two months of the year also contributed to the improvement in the BOP. However, **the CA remained negative** at USD16.1bn or 9.1% of GDP, reflecting the inability of exports to recover on global markets as well as interruptions to exports to Russia in mid-year.
- A moderate UAH devaluation should improve the CA by enhancing exports and limiting imports in 2014. Therefore, **we expect the CA deficit to improve to 6.2% of GDP this year**.

Ukraine. Monthly Market Overview. February 2014

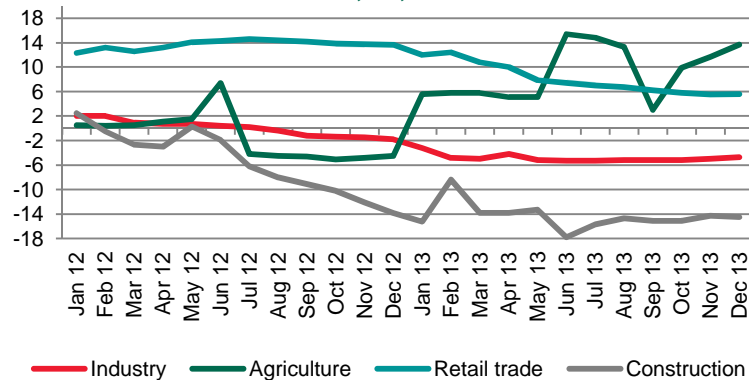
Major Macroeconomic Trends

Quarterly GDP dynamics by expenditure components, %, YoY



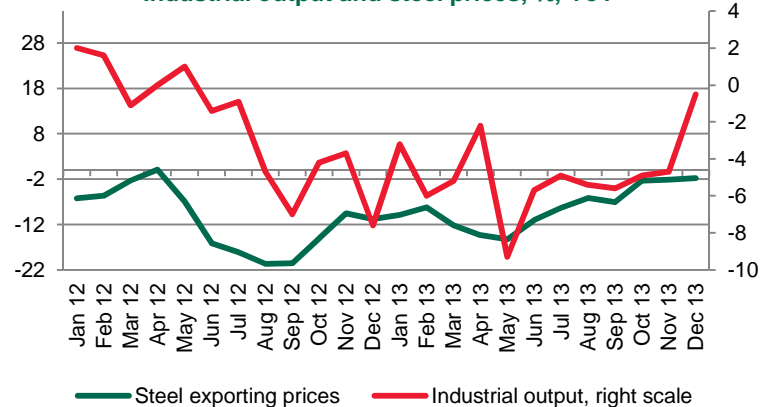
Sources: State Statistics Committee

Performance of major economic sectors, YTD, %, YoY



Source: State Statistics Committee

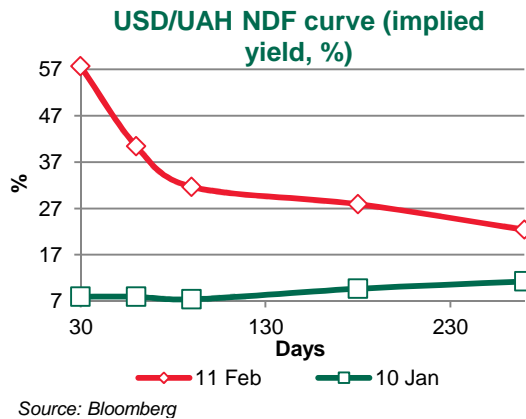
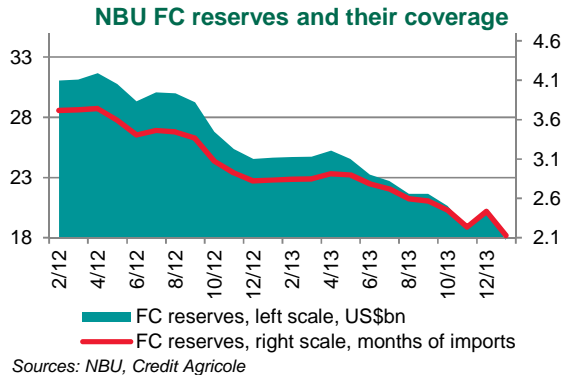
Industrial output and steel prices, %, YoY



Sources: State Statistics Committee, Bloomberg, Credit Agricole

Ukraine. Monthly Market Overview. February 2014

FX Market



Forecast, eop	USD/UAH	EUR/UAH
Q1'14	8.82	11.82
Q2'14	8.61	11.28
Q3'14	8.85	11.51
Q4'14	8.90	11.39

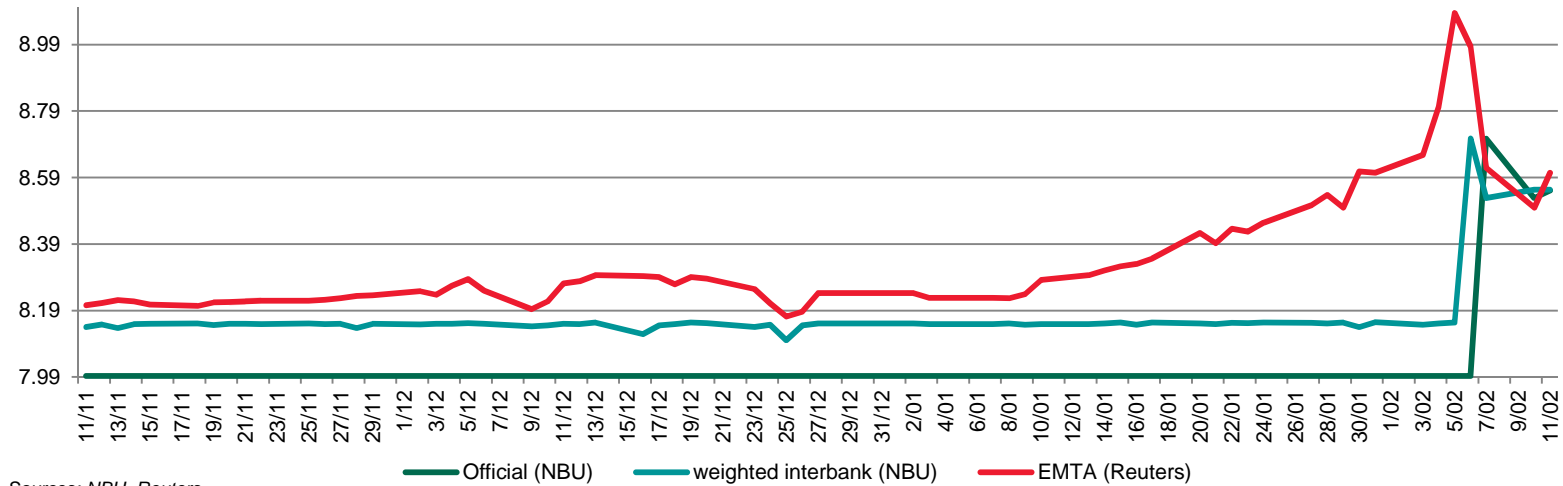
Source: Credit Agricole

- **The continuing political crisis as well as clumsy support for the hryvnia by the NBU triggered volatility on the market in late January and early February, with strengthening fears of UAH devaluation.** As a result, the USD/UAH exchange rate rather quickly reached its five-year peak, slightly exceeding the benchmark level of 9.0000. Growing devaluation fears forced the NBU to take the situation under its full control while trying to avoid further foreign currency interventions. In fact, the NBU spent around USD1.7bn via its foreign currency interventions in January. However, those interventions had only a minor effect on exchange rate volatility.
- **Not wishing to spend foreign currency reserves in the way it did in January, the NBU decided to calm down the market by introducing tougher administrative requirements regarding FX market trades.** In particular, the NBU introduced a six-day postponement of orders for foreign currency purchase, thus increasing its control over FX market operations and exchange rate dynamics. In addition, the NBU limited the scope of purposes for foreign currency purchases by both corporate clients and individuals. Although they had a strong positive effect on UAH dynamics in the short run, **these measures may reduce the volume of operations on the official FX market in a few months**, thus moving part of the business into grey or black markets.
- During its recent actions, **the NBU decided to adjust its official USD/UAH exchange rate closer to the market level** (having been stable at 7.993 for more than 1.5 years) and to make it more flexible, depending on the market exchange rate. The movement is quite positive for the market, as it will allow a reduction in currency differences in accounting and **meet the IMF requirement for more flexibility in the official exchange rate.**
- The NBU's intention to stabilise the FX market through interventions as well as repayment of USD0.60bn to the IMF moved **NBU foreign currency reserves to a seven-year low of USD17.8bn at end-January.** As a result, the coverage ratio of NBU reserves was lowered to 2.1 months of imports. This ratio signals that **the NBU's ability to maintain FX market stability is rather limited currently.** That is why the NBU decided to defend the UAH and to calm down the FX market entirely by administrative methods. Together with a deficit of hryvnia resources on the money market and the absence of gas payments in February, this factor **should reduce the necessity of the NBU intervening with foreign currency sales, while a six-day gap between foreign currency supply and demand may even replenish reserves in the first half of February.** From the other side, the repayment of debt to IMF of USD0.38bn and the redemption of foreign currency government bonds of USD0.20bn will still require foreign currency spending from NBU reserves.
- Even though devaluation fears grew on the cash FX market on the back on political uncertainty, the situation is still far from dramatic. In particular, **net foreign currency sales to households on the most volatile segment of the FX market, the cash market, remained rather moderate at USD0.66bn.** NBU's administrative limitations should keep this figure from expanding further, while continuing political uncertainty and correspondingly solid devaluation expectations **could still keep excessive foreign currency demand moderately high.**
- In our base-case scenario we expect stabilisation of political situation, creation of the government soon and presidential elections in early 2015. In this view we think the NBU will try to keep relative stability on FX market. At the same time, **we adjusted slightly upwards our year-end USD/UAH forecasts to 8.90** to account for recent UAH weakening

Ukraine. Monthly Market Overview. February 2014

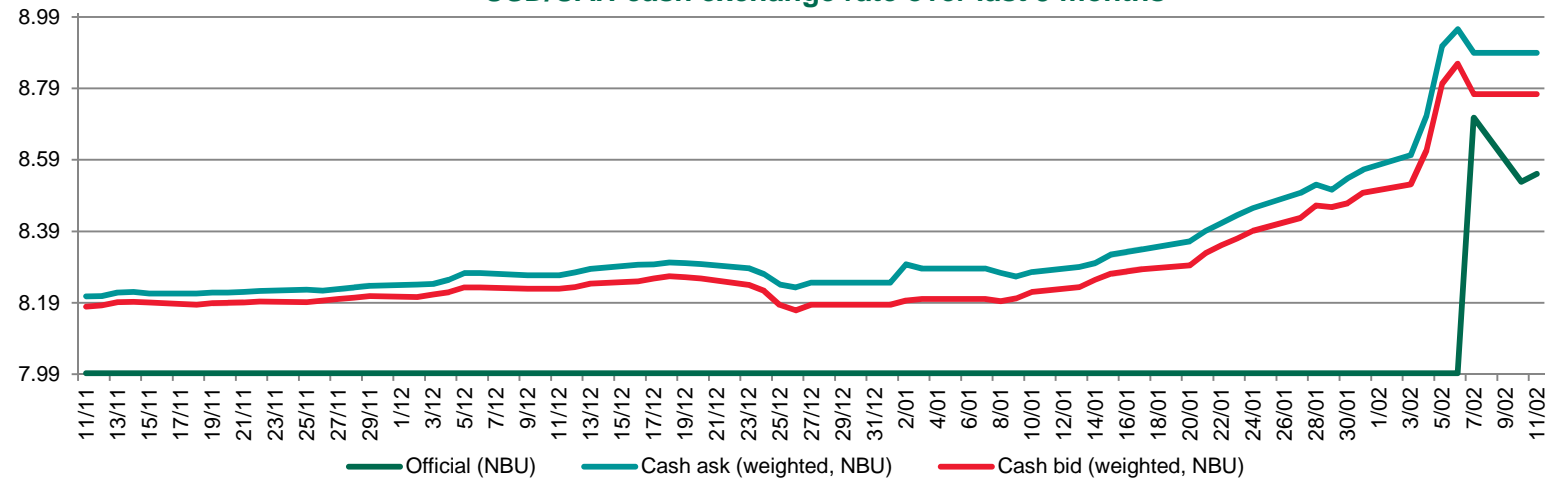
FX Market

USD/UAH interbank exchange rate over last 3 months



Sources: NBU, Reuters

USD/UAH cash exchange rate over last 3 months



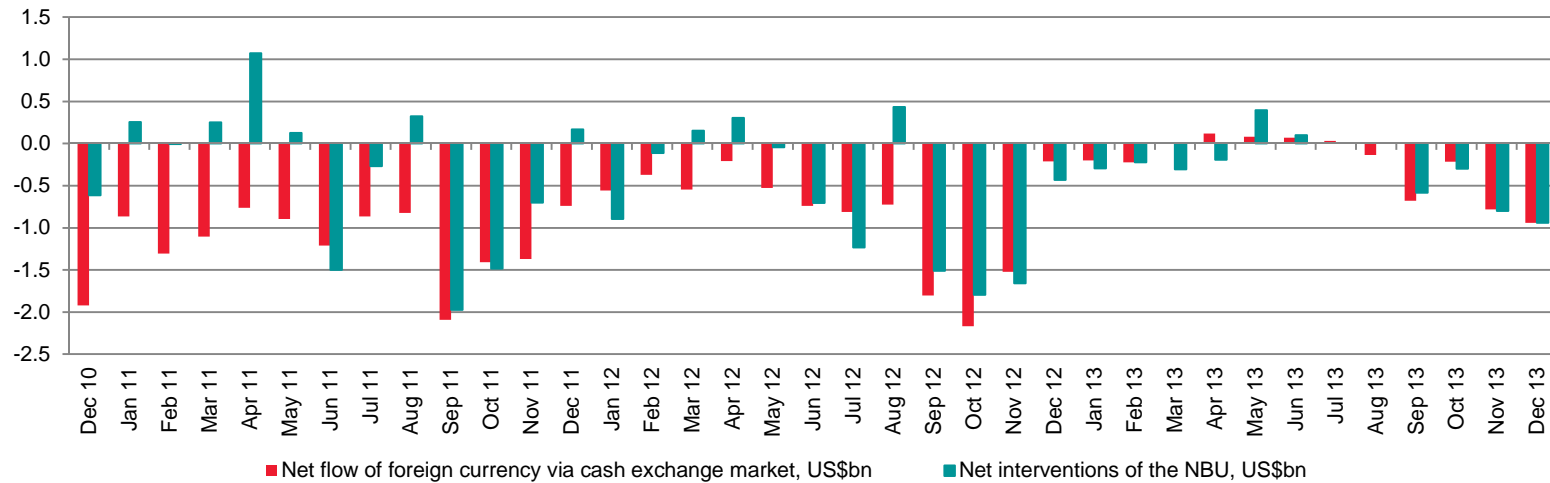
Source: NBU

Ukraine. Monthly Market Overview. February 2014

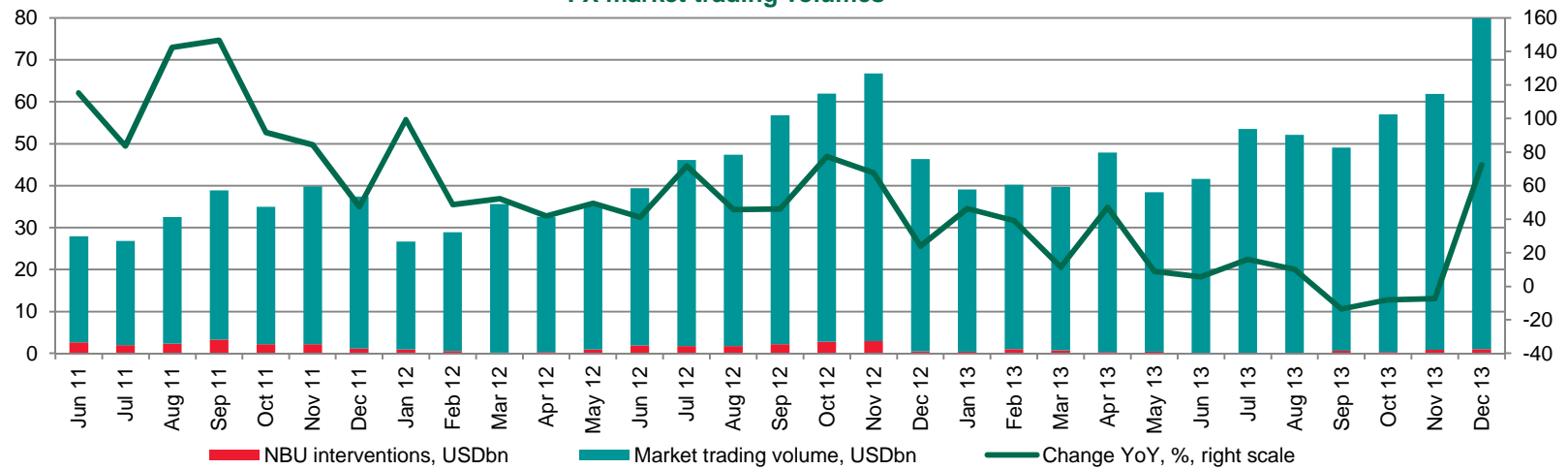
FX Market



Net flows on interbank and cash FX markets

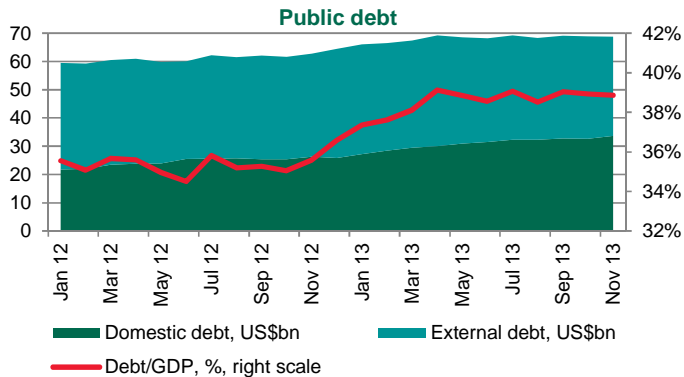


FX market trading volumes

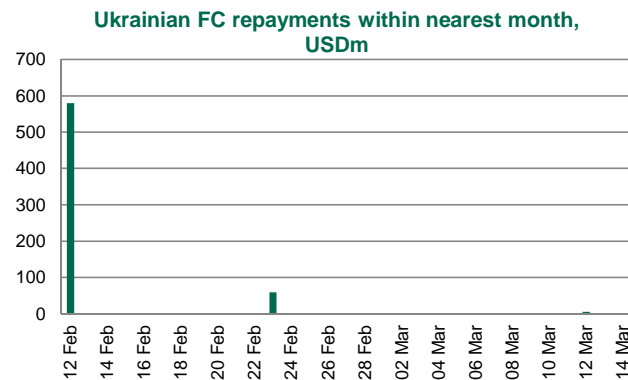


Ukraine. Monthly Market Overview. February 2014

Debt indicators



Sources: Finance Ministry, Credit Agricole



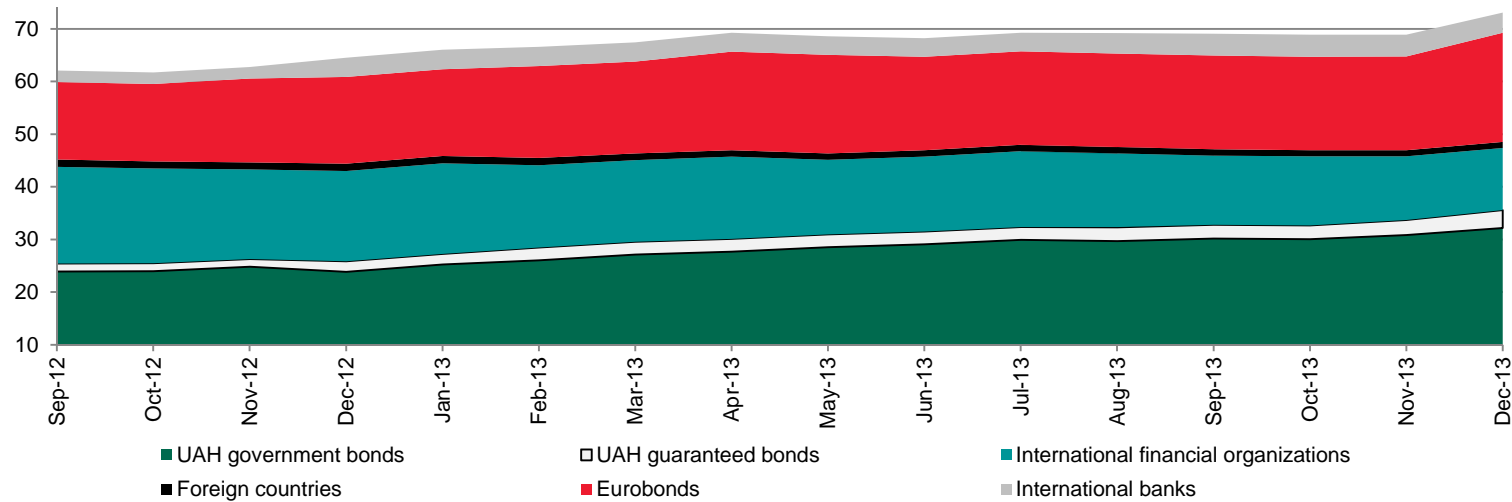
Sources: Finance Ministry, Credit Agricole

- The receipt of USD3.0bn in financial assistance from Russia was the core factor behind **a solid increase in public debt over December. It grew by 6.3% MoM and reached a historical peak of USD73.1bn.** However, in YoY terms external debt is still showing a decline (-2.9% YoY), which we can attribute to active redemptions of external obligations by the government last year (mostly, to the IMF and on Eurobonds). The government continues to finance its current needs mostly through domestic borrowings (via hryvnia- and FC-denominated government bonds), which kept domestic debt on a high growth track in 2013 (37.6% YoY).
- The increase in public debt in December raised the debt-to-GDP ratio to a 10-year high of 41.1%. **We expect a slight decline in public debt in January** on USD0.65bn repayment of debt to the IMF and USD0.38bn payments on Eurobonds and FC government bonds, coupled with a rather small inflow of new debt via local government bonds. **The debt-to-GDP ratio should follow.**
- **The expected inflow of a new tranche of the loan from Russia (USD2.0bn) did not happen in January,** due largely to political instability in Ukraine. In particular, the dismissal of the government was a formal reason for Russian authorities to postpone the provision of a new tranche of the loan to Ukraine. The news on the resumption of loan provision by Russia is still controversial. In fact, **the degree of Russian involvement in financial assistance to Ukraine may be tied to the external orientation of new government.** If the prime minister comes from an opposition party with a strong pro-Western orientation, this may increase the risk of postponement in loan provision by Russia. However, we think in this case the probability of receiving financial assistance from the EU, US and/or IMF will be higher. Hence, **the risks associated with external obligations by the Ukrainian government should not increase in the medium term,** if a new government is formed quickly.
- **Ukraine has rather moderate external obligations in February (USD0.66bn).** The figure looks manageable, even though no additional external inflows are expected soon. Taking into consideration that new rules of FX market operation will not require heavy NBU interventions and will even allow it to replenish FC reserves slightly, **we think external obligations will not burden the NBU's foreign currency reserves this month.** In March, however, Ukraine will have more of an external burden: together with USD0.38bn repayments on its ordinary obligations, the government has to repay arrears of around USD3.2bn for gas delivered in late 2013 and early 2014. Hence, **an external loan from either party within the coming three to four weeks would be crucial for maintaining the government's ability to service its external obligations.**
- Although the government's local currency obligations look moderate in February (UAH6.73bn), a rapid hike in the cost of the hryvnia would reduce the government's ability to refinance this repayment through the local capital market. However, **the government is highly likely to continue its local obligations,** as the necessary repayment will be refinanced by purchasing new bond issues by state-owned banks. The latter will, as usual, refinance government bonds with the NBU.

Ukraine. Monthly Market Overview. February 2014

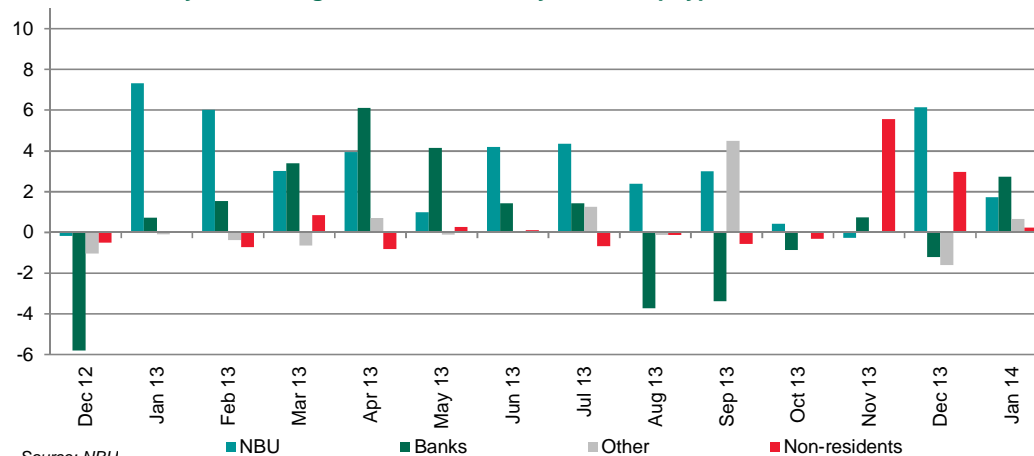
Debt indicators

Public debt by components, UAHbn



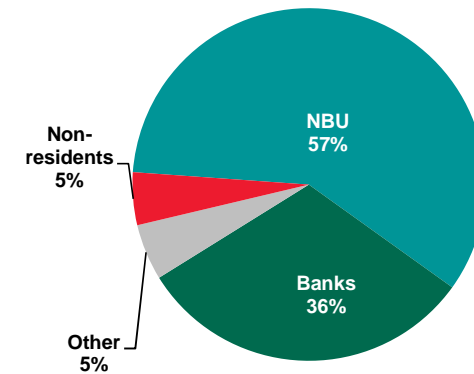
Source: Finance Ministry

Dynamics of government bonds by ownership types, MoM, UAH bn



Source: NBU

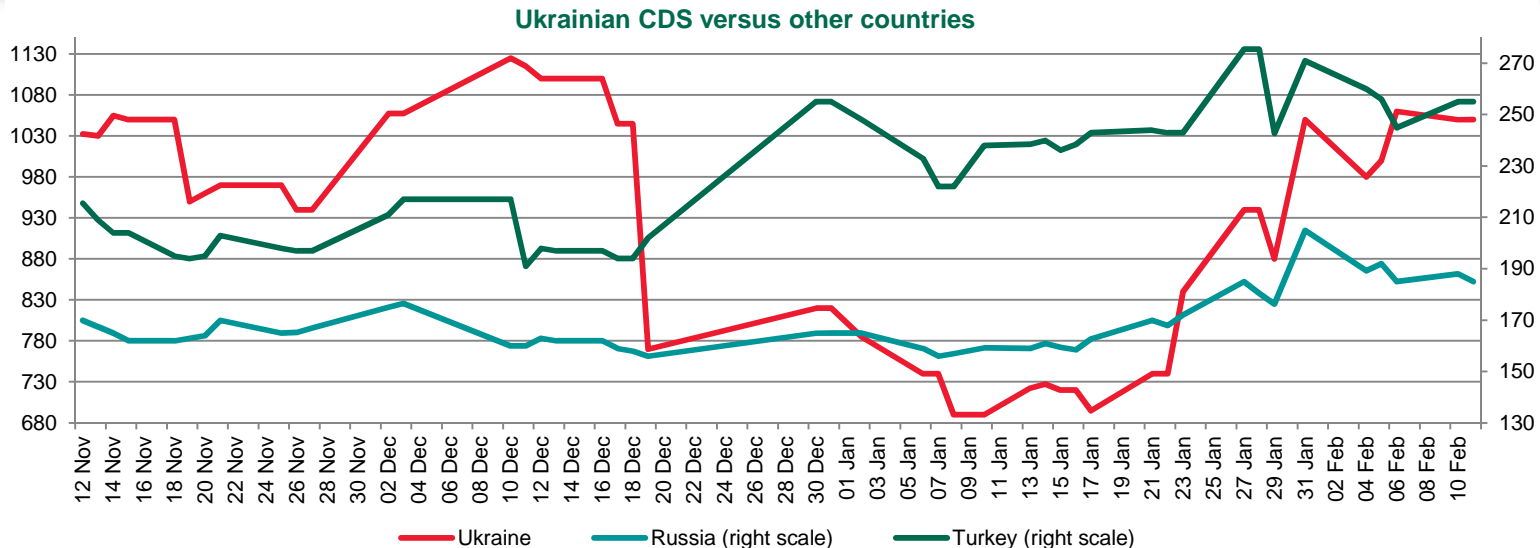
Breakdown of OVDP by owners (as of 3 Feb)
Total volume - UAH253bn



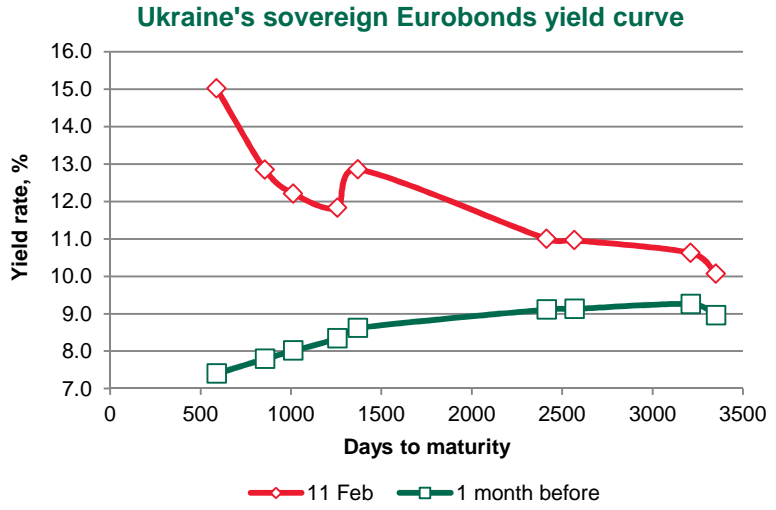
Source: NBU

Ukraine. Monthly Market Overview. February 2014

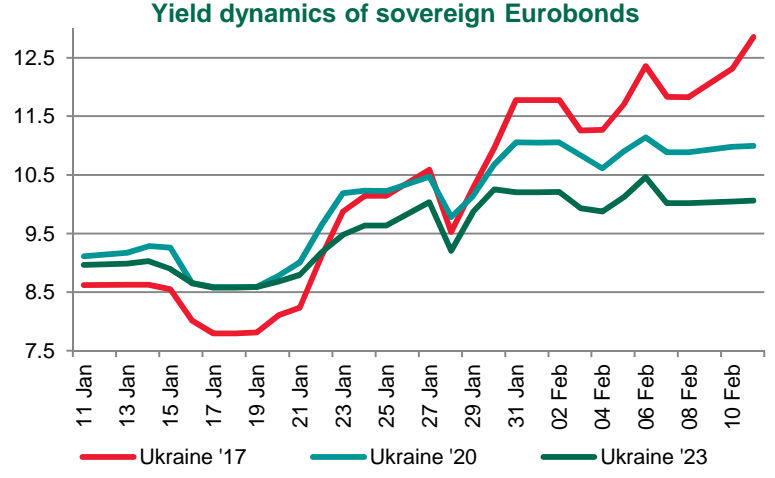
Debt indicators



Source: Bloomberg



Source: Bloomberg



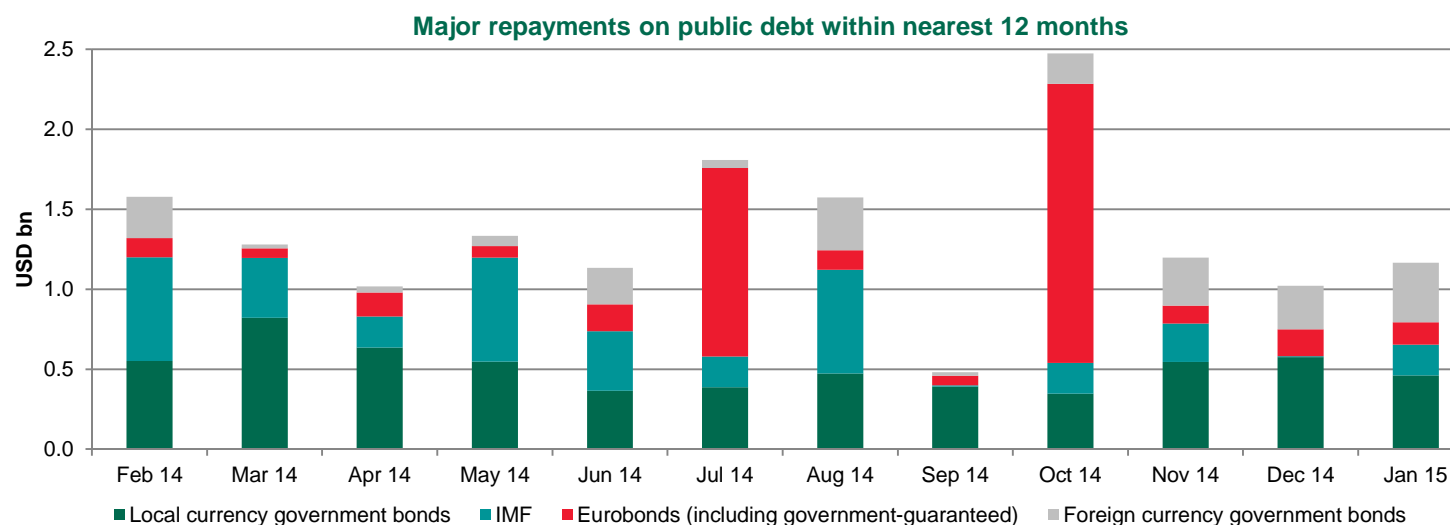
Source: Bloomberg

Ukraine. Monthly Market Overview. February 2014

Debt indicators



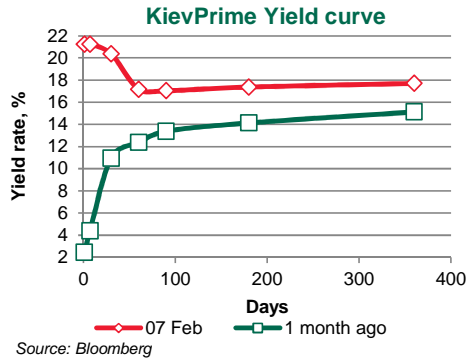
	USDbn	Q114	Q214	Q314	Q414	2014
Repayment of FC-denominated public debt		1.6	2.2	3.7	3.7	11.0
Foreign currency local government bonds		0.3	0.3	0.5	1.0	2.2
IMF debt		1.2	1.2	0.9	0.4	3.7
Eurobonds (including state-guaranteed)		0.3	1.4	1.9	0.4	4.1
Other		0.4	0.2	0.3	0.1	1.0



Source: Credit Agricole

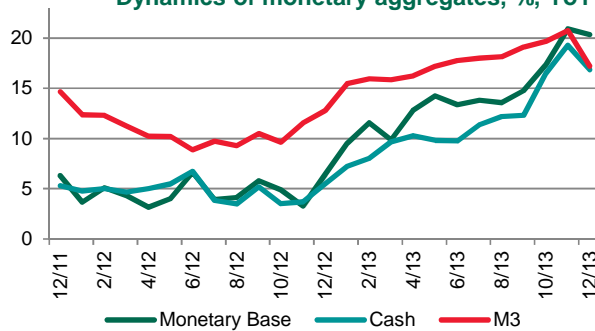
Ukraine. Monthly Market Overview. February 2014

Money Market



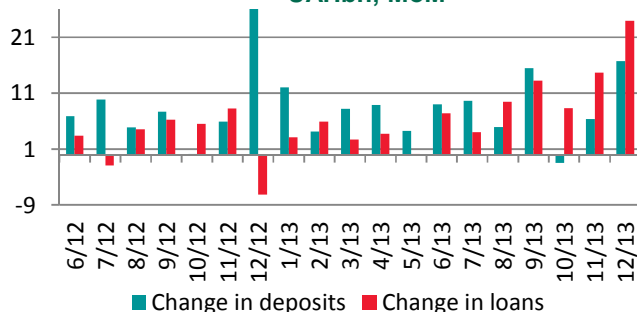
Source: Bloomberg

Dynamics of monetary aggregates, %, YoY



Source: NBU

Dynamics in banking loans and deposits, UAHbn, MoM

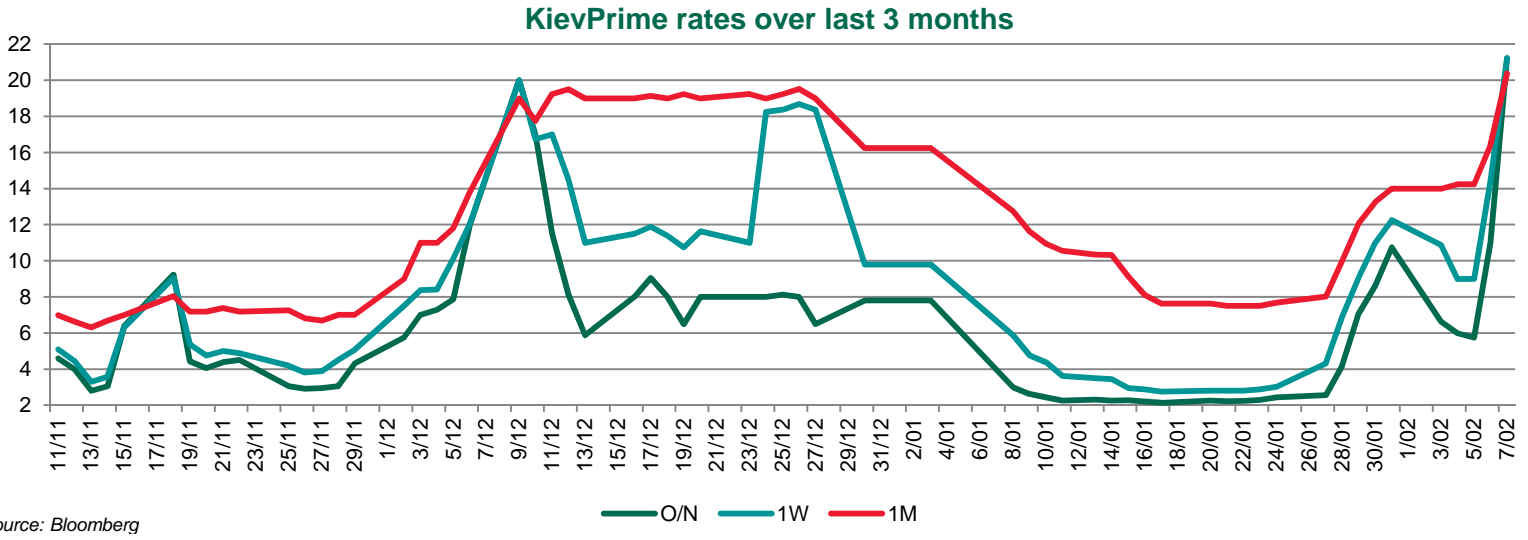
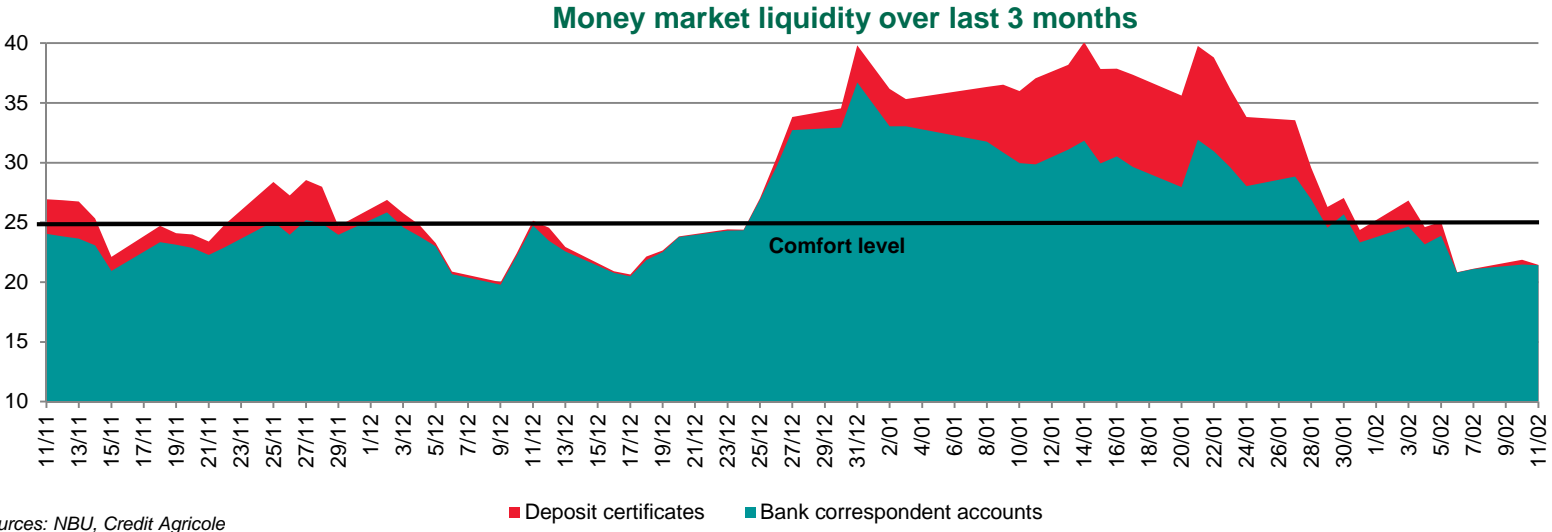


Source: NBU

- Recent statements of NBU officials support our view that *the NBU's policy is likely to remain unchanged in the medium term in terms of keeping its monetary policy easy* in order to stimulate the economy and switch it into growth mode. According to the bank's representatives, besides traditional refinancing of the banks, *the NBU is planning to continue the cut its discount rate as well as to reduce gradually the volume of banking funds held on special account in the NBU.*
- We should not be too optimistic regarding the positive effect on money market liquidity of a prospective increase in access to NBU refinancing and the cut in the key rate.* In particular, the access to NBU refinancing is still quite limited, while the level of the key rate has no direct influence on money market interest rates. However, the intention to reduce the volume of funds on the special NBU account may be a good factor for increasing liquidity and reducing the cost of funds in the medium term. In particular, at the start of 2014 the volume of banking funds in the special account in the NBU was at UAH10.8bn, or around a third of banking system quick liquidity. Hence, *if the NBU follows its strategy, our base-case scenario of reducing interest rates and the changing structure of banking resources towards more medium- and long-term resources in 2014 remains unchanged.*
- In contrast to NBU's medium-term strategy of continuing and even increasing monetary easing, the actual figure is completely different at present.* In particular, the NBU's intention to reduce devaluation and speculative factors on the FX market squeezed short-term liquidity sharply, sending interest rates to new one-year highs of more than 30% for both O/N and 1W rates in the first third of February. However, we believe these measures are temporary. And liquidity should return to its normal mode as soon as speculative factors on the FX market are reduced. *We think two or three weeks would be necessary to reduce the imbalance on money market and to correct short-term interest rates. We still see no valid reasons for keeping interest rates high for months in 2014.*
- Official data on banking deposits' dynamics over January is not available yet, while preliminary information shows a *visible outflow of deposits from the banking system by around UAH13.1bn.* However, in relative terms the outflow was rather moderate (by 1.95% MoM) and is comparable to average monthly growth of 1.30% MoM in 2013. And we cannot even compare this figure to the deposits outflow of 5% MoM after UAH devaluation in 2008. We think high hryvnia deposit rates can allow banking clients to afford even a slight hryvnia devaluation of 10% and prevent a mass outflow of deposits from the banking system. *And an increase in the cost of the hryvnia on the money market may correct short-term deposit rates upwards temporarily, if the hryvnia deficit lasts for several weeks. We also do not expect any mass outflow of deposits from banks in the near future,* as in extreme cases the NBU may implement a temporary ban on pre-term withdrawal of deposits, as it did during the previous political crisis in late 2004.
- None of the inflation indicators over January showed any worrying signs* regarding growing inflationary pressure on the economy. YoY headline CPI was just 0.5% in January, while core CPI turned negative at -0.1%. Although CPI may be corrected upwards slightly in February on UAH devaluation, *the figure is still a weak argument for the NBU tightening its monetary policy this year.*

Ukraine. Monthly Market Overview. February 2014

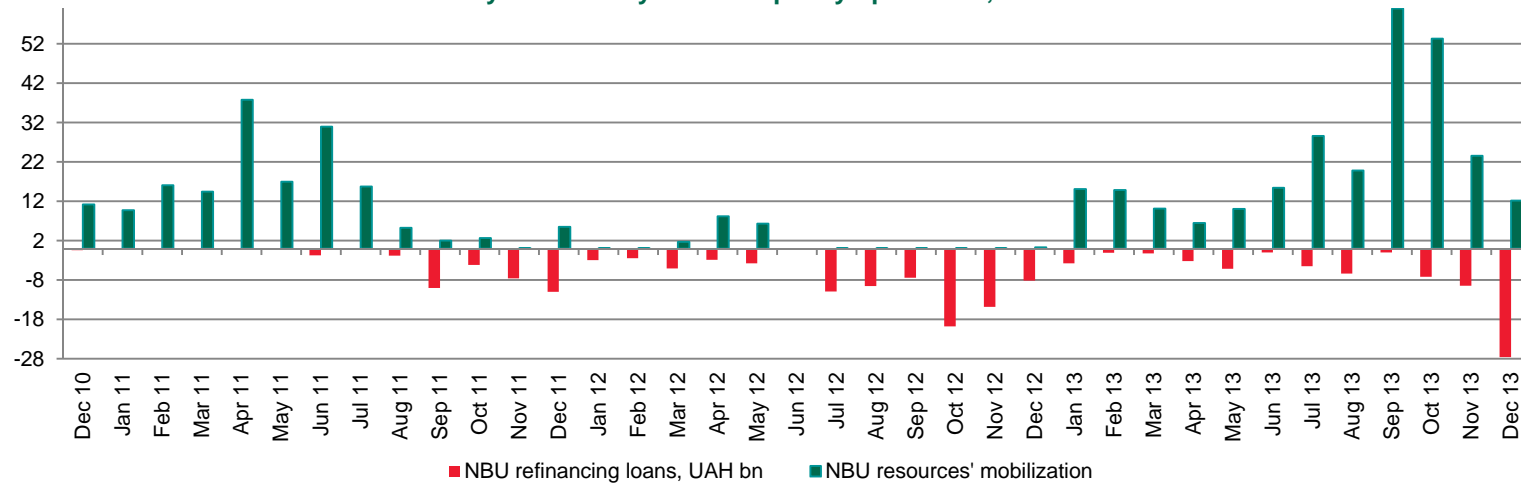
Money Market



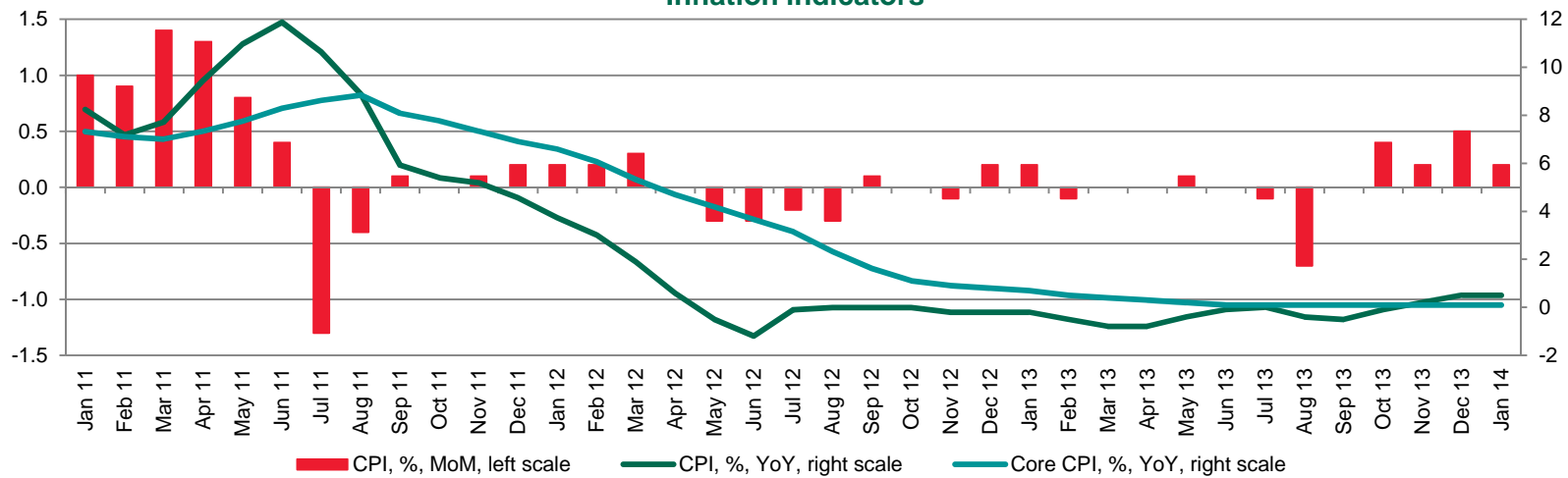
Ukraine. Monthly Market Overview. February 2014

Money Market

Monthly NBU money market liquidity operations, UAHbn



Inflation indicators



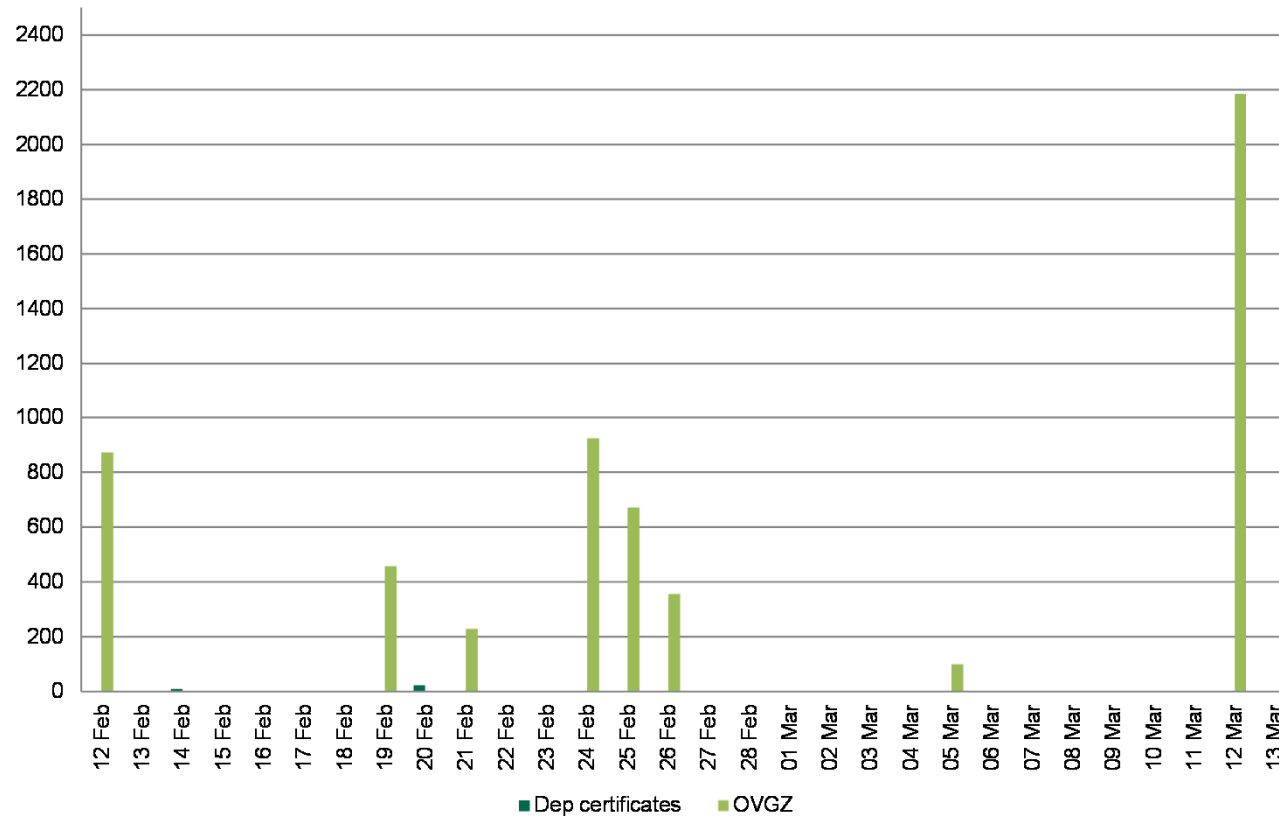
Source: State Statistics Committee

Ukraine. Monthly Market Overview. February 2014

Money Market



Liquidity inflow during upcoming month, UAH mn

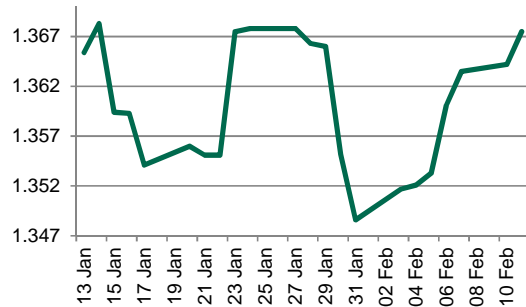


Sources: NBU, Finance Ministry, Credit Agricole

Ukraine. Monthly Market Overview. February 2014

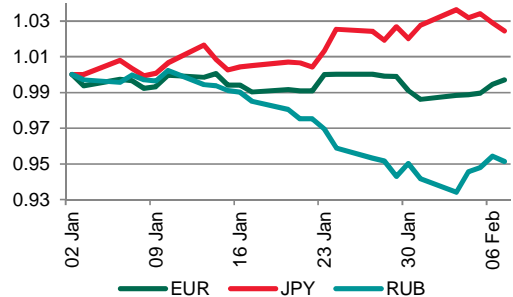


EUR/USD over last month



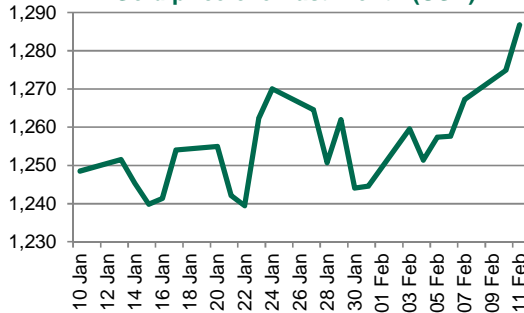
Source: Bloomberg

USD index over month (02.01.14=1)



Sources: Bloomberg, Credit Agricole

Gold price over last month (USD)



Source: Bloomberg

- The EUR/USD took a major tumble in the last week of the month to trade at 1.3497, well off the high of 1.33775 for the month. The EUR traded comfortably between 1.35 and 1.38 in January, supported by ongoing capital flows. Technically there are no major EUR patterns, but January did mark a more bearish turn in sentiment. For the EUR the combination of low inflation and subdued credit dynamics is likely to see the ECB turn to more accommodative policy, perhaps through President Draghi's suggestion of the purchase of private-sector loans.

- The lingering threat of deflation combined with the ongoing contraction in bank lending has fuelled increasing pressure on the ECB to provide additional monetary stimulus. Headline inflation dipped to 0.8% YoY at the end of 2013. While unconventional measures are the more likely policy choice in the current environment, there is scope for rate cuts should inflation and/or survey data disappoint in the coming months. Speaking at the World Economic Forum in Davos, ECB President Draghi dismissed speculation of traditional quantitative easing, saying that a more reasonable option would be for the ECB to buy packages of bank loans to the private sector. Since such a market does not yet exist, this prospect remains some way off. For now, sentiment indicators continue to trend gradually upwards, while industrial production data have begun to show a material improvement. The first member state to report fourth-quarter GDP results was Spain, where a 0.3% QoQ expansion marked the second quarter of positive growth following nine quarters of recession.

The following are adjusted market forecasts:

Crédit Agricole CIB EUR/USD forecast:

Q114	Q214	Q314	Q414
1.3300	1.3000	1.2900	1.2800

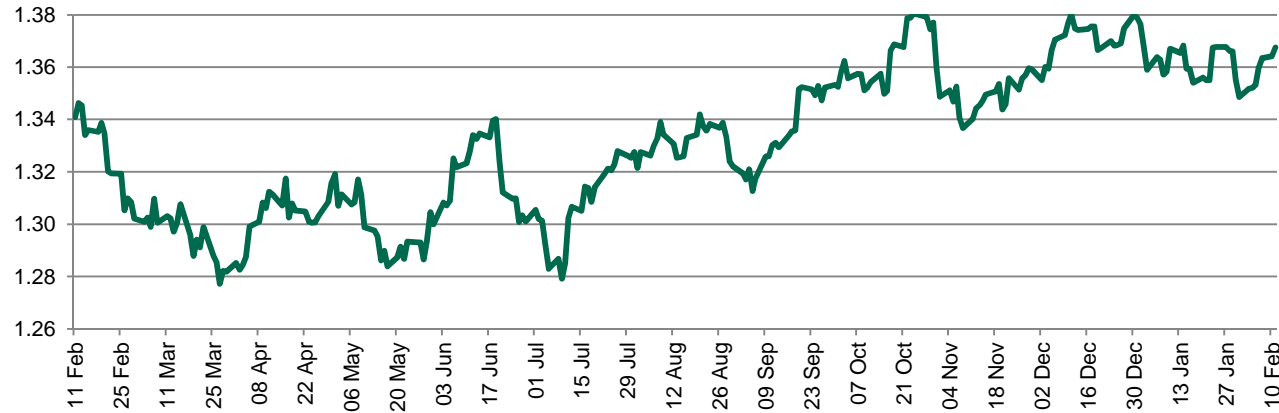
Consensus forecast (Bloomberg FC Poll by 86 strategists average)

Q114	Q214	Q314	Q414
1.3400	1.3100	1.3000	1.2800

Ukraine. Monthly Market Overview. February 2014

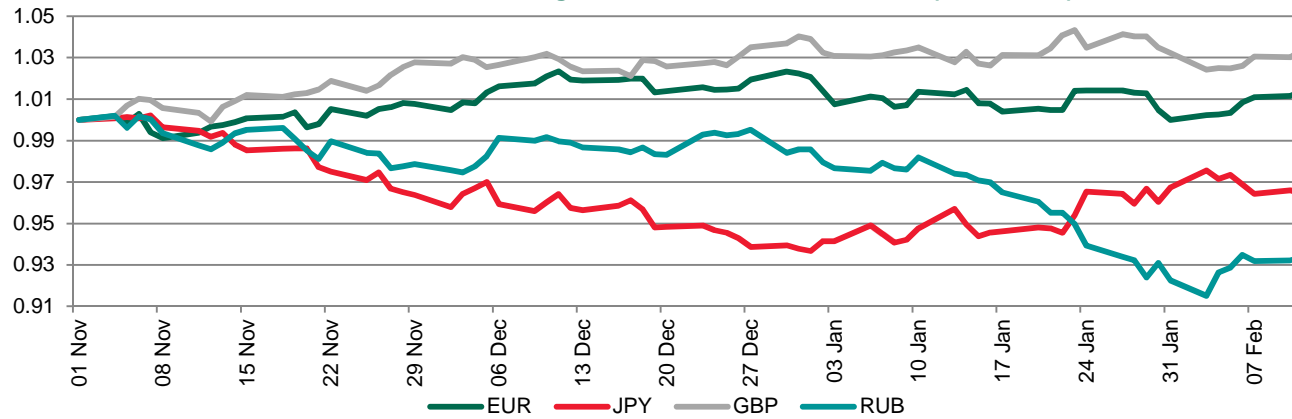


EUR/USD over last 12 months



Source: Bloomberg

Index of currencies against USD over last 3 months (01.11.13=1)



Sources: Bloomberg, Credit Agricole

Disclaimer



Certification

The views expressed in this report accurately reflect the personal views of the undersigned analyst(s). In addition, the undersigned analyst(s) has not and will not receive any compensation for providing a specific recommendation or view in this report.

Alexander Pecherytsyn

Global Markets Research contact details

Hervé Goulletquer Head of Global Markets Research +33 1 41 89 88 34

	Asia (Hong Kong & Tokyo)	Europe (London & Paris)	Americas (New York)
	Mitul Kotecha Head of Global Markets Research for Asia and Global Head of FX Strategy +852 2826 9821	Sébastien Barbé Head of Global Markets Research for Europe and Head of EM Research and Strategy +33 1 41 89 15 97	David Keeble ** Head of Global Markets Research for the Americas and Global Head of Interest Rates Strategy +1 212 261 3274
Macro Strategy (Facilitator: Hervé Goulletquer)	Kazuhiro Ogata Chief Economist – Japan +81 3 4580 5360 Yoshiro Sato Economist – Japan +81 3 4580 5337	Frederik Ducrozet Senior Economist – Eurozone +33 1 41 89 98 95	Michael P. Carey ** Chief Economist – North America +1 212 261 7134
Interest Rates (Head: David Keeble)	Frances Cheung Head of Asian Rates Strategy +852 2826 1520	Luca Jellinek Head of European Interest Rates Strategy +44 20 7214 6244 Peter Chatwell Senior Interest Rates Strategist +44 20 7214 5289 Orlando Green Senior Interest Rates Strategist +44 20 7214 7467 Jean-François Perrin Inflation Strategist +33 1 41 89 94 22	David Keeble ** Global Head of Interest Rates Strategy +1 212 261 3274 Jonathan Rick ** IRD Strategist +1 212 261 4096
Emerging Markets (Head: Sébastien Barbé)	Frances Cheung Head of Asian Rates Strategy +852 2826 1520 Dariusz Kowalczyk Senior Economist/Strategist – Asia ex-Japan +852 2826 1519	Sébastien Barbé Head of EM Research and Strategy +33 1 41 89 15 97 Jakub Borowski Chief Economist - Crédit Agricole Bank Polska SA + 48 22 573 18 40 Alexander Pecherytsyn Chief Economist – Crédit Agricole Bank Ukraine + 38 44 493-9014 Guillaume Tresca Senior Emerging Market Strategist +33 1 41 89 18 47	Mark McCormick ** ‡ FX Strategist +1 212 261 4108
Foreign Exchange (Head: Mitul Kotecha)	Mitul Kotecha Global Head of FX Strategy +852 2826 9821	Adam Myers European Head of FX Strategy +44 20 7214 7468 Manuel Oliveri FX Strategist +44 20 7214 7469	Mark McCormick ** ‡ FX Strategist +1 212 261 4108

** employee(s) of **Crédit Agricole Securities (USA), Inc.**

Important: Please note that in the United States, this fixed income research report is considered to be fixed income commentary and not fixed income research. Notwithstanding this, the Crédit Agricole CIB Research Disclaimer that can be found at the end of this report applies to this report in the United States as if references to research report were to fixed income commentary. Products and services are provided in the United States through Crédit Agricole Securities (USA), Inc.

‡ This commentary has been produced by **Crédit Agricole Securities (USA) Inc.'s ("CAS-USA") Fixed Income FX Department** and is not a fixed income research report prepared by a research analyst. These views may differ from those of the Research Department. The material contained in this commentary is intended solely for accredited, expert institutional investors and is provided for informational purpose only. This commentary is based on data obtained from sources we believe to be reliable, but is not guaranteed as to accuracy and does not purport to be complete. Any comments regarding the future direction of financial markets is illustrative and is not intended to predict actual results. It should not be construed as advice designed to meet the particular investment needs of any investor, nor as an offer or solicitation to buy or sell the securities or other products mentioned herein. Changes to assumptions may have a material impact on any returns detailed. Price and availability are subject to change without notice. No representation is made that any transaction can be effected at the values provided. The values provided are not necessarily the values carried on CAS-USA's books.

Disclaimer



© 2014, CRÉDIT AGRICOLE BANK All rights reserved.

This research report or summary has been prepared by Crédit Agricole Bank or one of its affiliates (collectively "CA") from information believed to be reliable. Such information has not been independently verified and no guarantee, representation or warranty, express or implied, is made as to its accuracy, completeness or correctness.

This report is a "commercial communication" as defined in article 6 of the Directive 2000/31/CE of 8 June 2000. For the avoidance of doubt, it is not a "*communication à caractère promotionnel*" within the meaning of the *Règlement General AMF*. It is provided for information purposes only. Nothing in this report should be considered to constitute investment, legal, accounting or taxation advice and you are advised to contact independent advisors in order to evaluate this report. It is not intended, and should not be considered, as an offer, invitation, solicitation or personal recommendation to buy, subscribe for or sell any of the financial instruments described herein, nor is it intended to form the basis for any credit, advice, personal recommendation or other evaluation with respect to such financial instruments and is intended for use only by those professional investors to whom it is made available by CA. CA does not act in a fiduciary capacity to you in respect of this report.

CA may at any time stop producing or updating this report. Not all strategies are appropriate at all times. Past performance is not necessarily a guide to future performance. The price, value of and income from any of the financial instruments mentioned in this report can fall as well as rise and you may make losses if you invest in them. Independent advice should be sought. In any case, investors are invited to make their own independent decision as to whether a financial instrument or whether investment in the financial instruments described herein is proper, suitable or appropriate based on their own judgement and upon the advice of any relevant advisors they have consulted. CA has not taken any steps to ensure that any financial instruments referred to in this report are suitable for any investor. CA will not treat recipients of this report as its customers by virtue of their receiving this report.

CA, its directors, officers and employees may effect transactions (whether long or short) in the financial instruments described herein for their own accounts or for the account of others, may have positions relating to other financial instruments of the issuer thereof, or any of its affiliates, or may perform or seek to perform securities, investment banking or other services for such issuer or its affiliates. CA may have issued, and may in the future issue, other reports that are inconsistent with, and reach different conclusions from, the information presented in this report. CA is under no obligation to ensure that such other reports are brought to the attention of any recipient of this report. CA has established a "Policy for Managing Conflicts of Interest in relation to Investment Research" which is available upon request. A summary of this Policy is published on the CA website: <http://www.ca-cib.com/group-overview/the-markets-in-financial-instruments-directive-mifid.htm>. This Policy applies to its investment research activity.

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 CA. To the extent permitted by applicable securities laws and regulations, CA accepts no liability whatsoever for any direct or consequential loss arising from the use of this document or its contents.

France: Crédit Agricole Corporate and Investment Bank is authorised by the Autorité de Contrôle Prudentiel ("ACP") and supervised by the ACP and the Autorité des Marchés Financiers ("AMF"). **United Kingdom:** Approved and/or distributed by Crédit Agricole Corporate and Investment Bank, London branch. Crédit Agricole Corporate and Investment Bank is authorised by the ACP and supervised by the ACP and the AMF in France and subject to limited regulation by the Financial Conduct Authority and the Prudential Regulation Authority. Details about the extent of our regulation by the Financial Conduct Authority and the Prudential Regulation Authority are available from us on request. **United States of America:** This research report is distributed solely to persons who qualify as "Major U.S. Institutional Investors" as defined in Rule 15a-6 under the Securities and Exchange Act of 1934 and who deal with Crédit Agricole Corporate and Investment Bank. Recipients of this research in the United States wishing to effect a transaction in any security mentioned herein should do so by contacting Crédit Agricole Securities (USA), Inc. (a broker-dealer registered with the Securities and Exchange Commission). The delivery of this research report to any person in the United States shall not be deemed a recommendation of Crédit Agricole Securities (USA), Inc. to effect any transactions in the securities discussed herein or an endorsement of any opinion expressed herein. **Italy:** This research report can only be distributed to, and circulated among, professional investors (*operatori qualificati*), as defined by the relevant Italian securities legislation. **Spain:** Distributed by Crédit Agricole Corporate and Investment Bank, Madrid branch and may only be distributed to institutional investors (as defined in article 7.1 of Royal Decree 291/1992 on Issues and Public Offers of Securities) and cannot be distributed to other investors that do not fall within the category of institutional investors. **Hong Kong:** Distributed by Crédit Agricole Corporate and Investment Bank, Hong Kong branch. This research report can only be distributed to professional investors within the meaning of the Securities and Futures Ordinance (Cap.571) and any rule made there under. **Japan:** Distributed by Crédit Agricole Securities Asia B.V. which is registered for securities business in Japan pursuant to the Law Concerning Foreign Securities Firms (Law n°5 of 1971, as amended), and is not intended, and should not be considered, as an offer, invitation, solicitation or recommendation to buy or sell any of the financial instruments described herein. This report is not intended, and should not be considered, as advice on investments in securities which is subject to the Securities Investment Advisory Business Law (Law n°74 of 1986, as amended). **Luxembourg:** Distributed by Crédit Agricole Corporate and Investment Bank, Luxembourg branch. It is only intended for circulation and/or distribution to institutional investors and investments mentioned in this report will not be available to the public but only to institutional investors. **Singapore:** Distributed by Crédit Agricole Corporate and Investment Bank, Singapore branch. It is not intended for distribution to any persons other than accredited investors, as defined in the Securities and Futures Act (Chapter 289 of Singapore), and persons whose business involves the acquisition or disposal of, or the holding of capital markets products (as defined in the Securities and Futures Act (Chapter 289 of Singapore)). **Switzerland:** Distributed by Crédit Agricole (Suisse) S.A. This report is not subject to the SBA Directive of January 24, 2003 as they are produced by a non-Swiss entity. **Germany:** Distributed by Crédit Agricole Corporate and Investment Bank, Frankfurt branch and may only be distributed to institutional investors. **Australia:** Distributed to wholesale investors only. This research, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act.

THE DISTRIBUTION OF THIS DOCUMENT IN OTHER JURISDICTIONS MAY BE RESTRICTED BY LAW, AND PERSONS INTO WHOSE POSSESSION THIS DOCUMENT COMES SHOULD INFORM THEMSELVES ABOUT, AND OBSERVE, ANY SUCH RESTRICTIONS. BY ACCEPTING THIS REPORT YOU AGREE TO BE BOUND BY THE FOREGOING.