



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

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Daily Insight

NBU governor's speech to parliament

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MONDAY, 19 JANUARY 2015

UX Index (3 months to 19 Jan 2015)



Source: UX.

Key market indicators (as of 16 Jan 2015)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	15.8475	+0.14	+0.17
USD/UAH (1Y NDF)	18.4500	+0.00	+0.00
EUR/USD	1.1567	-0.57	-4.39
USD/RUB	65.3060	+0.24	+7.52
KievPRIME O/N (%)	10.00	-40bp	-890bp
KievPRIME 1M (%)	18.20	+0bp	-170bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	72.74	+1,488bp	+1,097bp
Ukraine 17, Eurobond (%)	34.59	-11bp	+683bp
Ukraine 22, Eurobond (%)	18.27	-14bp	+202bp
Ukraine 23, Eurobond (%)	17.59	-14bp	+202bp
Ukraine 5Y CDS	2,474bp	-85bp	+275bp
EQUITIES			
Stock market indices			
UX (Ukraine)	1,050.28	-0.34	+1.64
MSCI World	409.62	+0.66	-1.80
MSCI EM	957.46	-0.26	+0.12
RTS (Russia)	769.80	+0.97	-2.20
WIG-20 (Poland)	2,252.33	-0.57	-2.75
S&P 500 (USA)	2,019.42	+1.34	-1.92

Notes: Chg – percentage change, if not otherwise indicated;
[1] – total traded volume for stocks listed in green- or red-shaded box means gain or loss, respectively, of the index or security.

Sources: Bloomberg, UX, Investment Capital Ukraine LLC.

Economics: News & Comments

NBU governor's speech to parliament

On Friday, the NBU governor, in response to recent allegations of mismanagement of FX, spoke to parliament about the current situation with the hryvnia, inflation and the banking sector. While some MPs, including a few in the ruling coalition, had been threatening to have the governor dismissed from incompetence, the majority of MPs expressed explicit confidence in the governor. In the speech, the governor confirmed that the NBU will not return to a pegged FX regime and that the key focus is on inflation (25% in Dec-15) and that a newly conceived monetary policy committee will consider a key rate hike (14% now) to reverse inflation. The NBU will rely on IMF and donor funding to deal with the crises in attaining financing and reversing the hryvnia's devaluation.

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Bonds: News & Comments

Liquidity high due to inflows

Broader banking sector liquidity rose UAH1.07bn to UAH59.70bn last Saturday (a business day in Ukraine) as banks' correspondent accounts with the NBU increased UAH2.06bn to UAH33.26bn and total CDs outstanding fell UAH0.98bn to UAH20.63bn. Total local currency debt repayments scheduled for the next 30 days remained steady at UAH5.81bn that day.

Investment implications: The NBU purchased UAH2.76bn of government bonds last Friday, while total bonds outstanding rose UAH2.51bn after last Friday's primary auction (see comment below). The NBU injected just UAH0.25bn of finds along with UAH0.14bn of ON loans. Without these inflows, liquidity would have declined last Thursday due to MoF absorption of UAH2.51bn.

Primary auction results

Thursday's successful auction provided the MoF with UAH3.12bn of proceeds, the MoF sold and Friday's second additional UAH2.51bn (par value) auction of the same bonds raised another UAH2.42bn of proceeds from three bids submitted at the same 17.00% rate.

Investment implications: As the NBU purchased UAH1.74bn of bonds on Thursday, last Friday's demand also was supported by the NBU under domestic QE. The NBU purchased UAH2.76bn of new bonds, some of which were sold by the MoF to banks last Thursday. At the same time, as banking sector liquidity (see comment above) remains very high, part of the demand could be from the market as these bonds are more attractive than the NBU CDs with similar maturity that offer interest rates no higher than 13.50%.

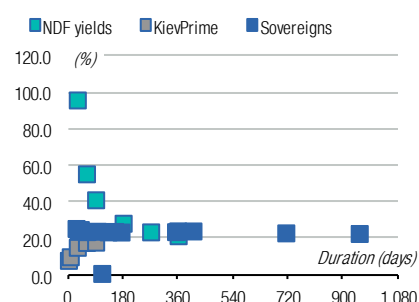
Bondholders' portfolios change

The NBU used QE support to purchase UAH4.50bn out of the total UAH5.65bn of bonds issued last week for its portfolio. As a result, the NBU's portfolio rose to UAH322.63bn or a 70.09% share of total bonds outstanding as the banks' portfolio slightly declined last Thursday to UAH92.85bn or 20.17% of total outstanding of government bonds. The ratios of other residents' and non-residents' portfolios also fell to 5.13% and 4.60%, respectively, as these groups did not purchase a significant amount of bonds, as they held UAH23.63bn and UAH21.19bn, respectively.

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Yield curve of the local bond market

(as of market close on 16 Jan 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 16 Jan 2015)

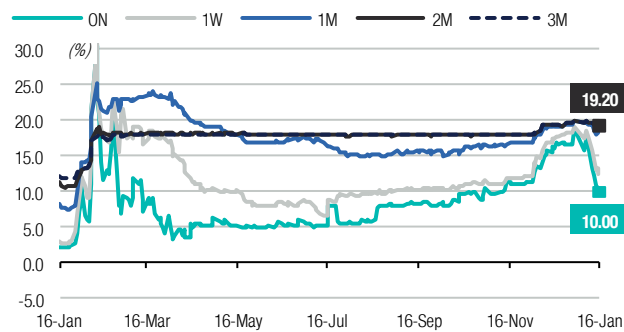
	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
O/n	10.00	-40bp	-625bp	-625bp	-890bp
1wk	12.50	-80bp	-513bp	-488bp	-650bp
1m	18.20	+0bp	-130bp	-105bp	-170bp
2m	19.20	-20bp	-55bp	-30bp	-80bp
3m	19.20	-20bp	-55bp	-30bp	-80bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's ¹	N/A	N/A	N/A	N/A	N/A
CDs ²	N/A	N/A	N/A	N/A	N/A
Sovgns ³	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	N/A	N/A	N/A
HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	319,863	+0.86	+1.42	+8.88	+1.42
Banks	93,287	-0.46	+1.00	+3.21	-0.62
Resid's ⁴	23,484	+0.61	-0.40	-4.54	-3.75
Non-res ⁵	21,158	+0.17	+0.34	-1.89	-1.63
Total	457,792	+0.55	+1.19	+6.40	+0.58
NDF IMPLIED YIELDS (%)					
3m	25.60	-58bp	-131bp	+444bp	-74bp
6m	19.93	-30bp	-67bp	+222bp	-38bp
9m	17.93	-21bp	-47bp	+148bp	-27bp
1yr	17.13	-16bp	-38bp	+111bp	-23bp
LOCAL CURRENCY UAH SOVEREIGN BOND YIELDS (%)					
Mar '13	N/A	N/A	N/A	N/A	N/A
Jan '14	N/A	N/A	N/A	N/A	N/A
Aug '15 ⁶	N/A	N/A	N/A	N/A	N/A
EUROBONDS USD SOVEREIGN BOND YIELDS (%)					
CDS 5yr	2,474	-85bp	+377bp	+49bp	+275bp
Jun '16	44.91	+194bp	+800bp	+472bp	+800bp
Jul '17	34.59	-11bp	+683bp	+207bp	+683bp
Sep '20	20.33	-15bp	+149bp	+69bp	+149bp
Sep '21	19.94	-15bp	+140bp	+42bp	+140bp
Sep '22	18.27	-14bp	+202bp	+76bp	+202bp
Feb '23	17.59	-14bp	+202bp	+54bp	+202bp

Notes: [1] banks' account balance at NBU; [2] certificates of deposits issued by NBU; [3] UAH sovereign bonds due next 30 days; [4] residents; [5] non-residents; [6] VAT bond.

Sources: Bloomberg, Investment Capital Ukraine LLC.

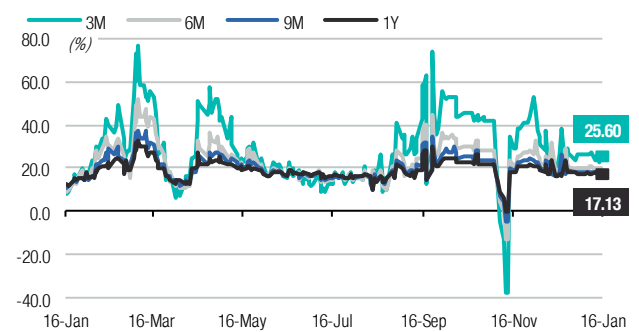
Chart page: Local bond market & Eurobond markets

Chart 1. Kiev Prime rates (%), last 12-month period



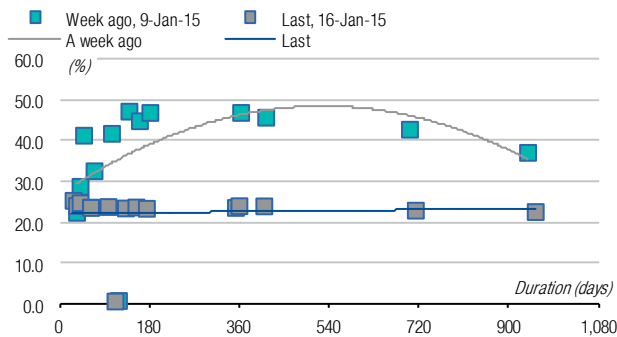
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 2. UAH NDF implied yields (%), last 12-month period



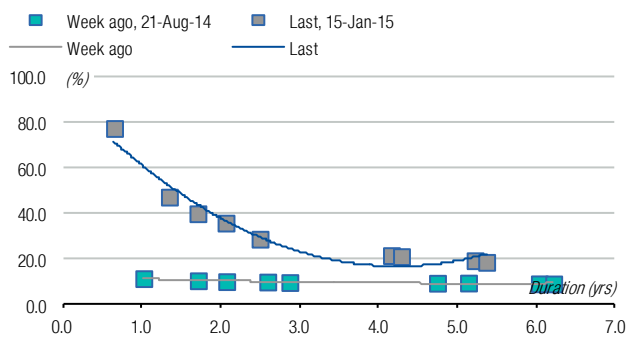
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 16 Jan 2015



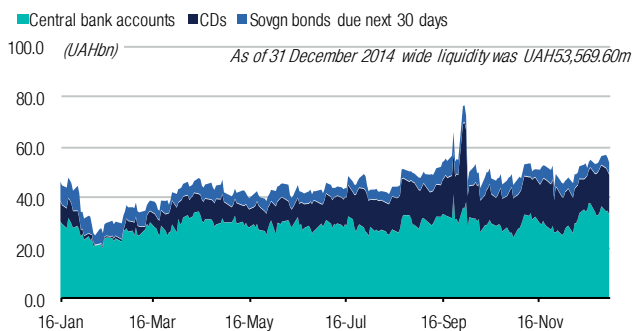
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 16 Jan 2015



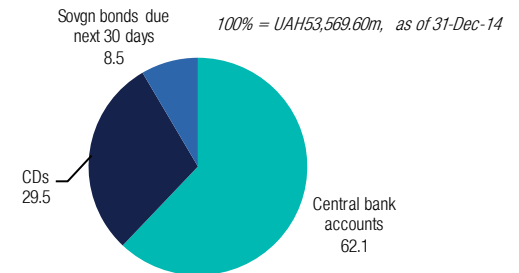
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 5. Banking sector liquidity (UAHbn), last 12-month period



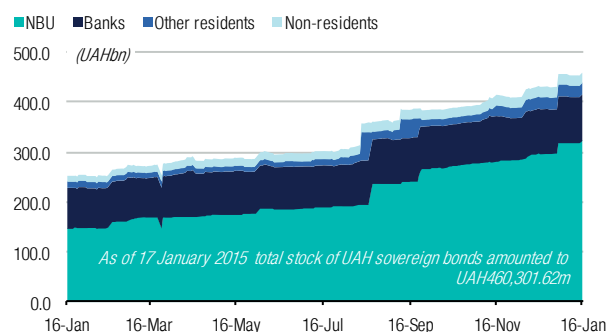
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 16 Jan 2015



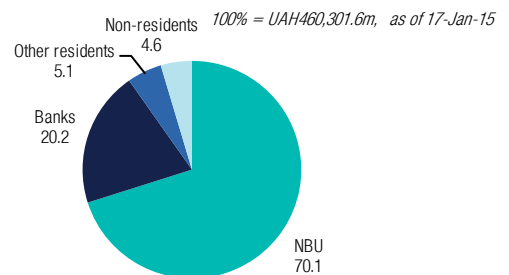
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 7. Holders of sovereign bonds (UAHbn), last 12 months



Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

Chart 8. Domestic sovereign debt (%) as of 16 Jan 2015



Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

Table 1. Ukrainian stocks (closing prices as of 16-Jan-2015)

Company	Bloomberg Ticker	Listing	Share price performance (% change)				Valuation (US\$)			Free float (FF) & Liquidity					P/E			EV/EBITDA			EV/Sales			Ratios			
			Last price	Daily	MoM	YTD	YoY	Last price	Market cap (m)	EV (m)	FF (%)	FF mkt cap (US\$m)	Last day turnover (US\$ 000)	3M avg. turnover (US\$ 000)	FF share traded (%)	FF turnover (days)	2014	2015E	2016E	2014	2015E	2016E	2014	2015E	2016E	P/B (x)	Debt/Assets (%)
ENERGY																											
Cadogan Petrol...	CAD LN	London	9.38 GBp	+0.0	-9.6	-6.3	-18.5	0.14	32.8	-14.8	40.2	13.2	3.6	12.3	0.03	2,970	Neg.	N/A	N/A	2.2	N/A	N/A	Neg.	N/A	N/A	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	7.65 UAH	+0.0	+2.1	+1.4	+61.1	0.48	178.3	166.4	21.7	38.7	21.9	47.7	0.11	902	5.8	4.9	7.6	0.2	2.9	3.1	0.4	0.2	0.3	1.1	16.3
Coal Energy	CLE PW	Warsaw	0.68 PLN	-1.4	-4.2	+9.7	-51.4	0.18	8.2	134.1	25.0	2.1	1.0	11.9	0.36	275	Neg.	N/A	N/A	6.0	N/A	N/A	1.1	N/A	N/A	0.1	39.8
Donbasenergo	DOEN UK	Kiev, UX	32.94 UAH	+0.0	-0.2	-0.2	+5.4	2.08	49.1	99.2	14.2	7.0	3.6	8.1	0.21	472	1.5	1.3	1.2	0.1	1.8	1.3	0.3	0.2	0.2	1.2	25.1
JXK Oil & Gas	JXK LN	London	12.25 GBp	+1.0	-7.5	+2.1	-82.7	0.19	31.9	37.0	47.2	15.0	54.8	73.8	0.97	104	4.9	5.3	1.0	0.6	0.7	0.6	0.2	0.2	0.2	0.1	5.5
Regal Petroleum	RPT LN	London	4.32 GBp	+16.8	-9.2	+38.1	-69.5	0.07	21.0	-9.2	80.9	17.0	2.3	3.2	0.03	3,007	Neg.	10.5	N/A	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	138.00 UAH	+0.0	-9.6	-6.8	+51.3	8.71	111.4	123.4	5.0	5.6	0.0	1.2	0.02	4,167	3.1	N/A	N/A	0.8	N/A	N/A	0.2	N/A	N/A	1.2	0.0
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	+0.0	-6.9	+0.7	-59.7	0.00	23.7	1,830.9	3.9	0.9	2.3	1.7	0.28	359	Neg.	Neg.	N/A	Neg.	Neg.	N/A	2.0	1.2	N/A	N/A	85.7
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.65 UAH	+0.0	-9.5	-4.4	-40.3	0.10	20.4	17.3	4.0	0.8	0.7	3.4	0.81	124	Neg.	Neg.	N/A	0.0	0.7	N/A	0.0	0.0	N/A	0.1	0.1
Azovstal	AZST UK	Kiev, UX	0.76 UAH	+0.0	+6.0	+2.4	+22.5	0.05	202.4	N/A	4.1	8.3	14.6	8.6	0.10	1,010	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	0.2	0.0	
Ferrexpo PLC	FXPO LN	London	55.50 GBp	+4.7	+13.0	+4.7	-68.6	0.84	494.9	697.4	22.4	110.9	694.1	828.6	0.75	134	1.9	2.0	5.2	1.4	1.5	2.4	0.4	0.5	0.6	0.4	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.24 UAH	+0.0	-22.4	-16.1	-57.3	0.01	4.1	4.7	9.0	0.4	0.3	0.7	0.42	239	Neg.	0.5	0.3	0.0	0.3	N/A	0.0	0.0	0.0	0.0	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	20.97 UAH	+0.0	-2.4	+0.1	-34.5	1.32	14.0	5.6	9.4	1.3	0.7	4.1	0.29	340	Neg.	Neg.	N/A	1.0	0.2	N/A	0.0	0.0	N/A	1.0	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.36 EUR	+0.0	-16.3	-16.3	-71.4	0.42	38.5	88.4	34.0	13.1	10.4	10.9	0.10	1,021	Neg.	N/A	N/A	Neg.	N/A	N/A	1.4	N/A	N/A	0.8	35.9
Agroliga	AGL PW	Warsaw	9.62 PLN	-1.8	-6.1	+6.9	-64.9	2.58	4.0	4.8	16.7	0.7	0.3	3.1	0.56	180	1.1	N/A	N/A	1.4	N/A	N/A	0.3	N/A	N/A	0.4	5.7
Agroton	AGT PW	Warsaw	1.31 PLN	+0.8	-4.4	+6.5	-52.0	0.35	7.6	52.9	26.2	2.0	16.2	36.8	1.70	59	Neg.	N/A	N/A	19.8	17.6	N/A	0.7	0.6	N/A	0.1	28.4
Astarta Holdin...	AST PW	Warsaw	25.70 PLN	-0.3	+57.7	+28.5	-60.5	6.90	172.4	397.9	31.0	53.5	23.7	116.1	0.12	859	5.8	Neg.	4.4	5.3	3.6	4.3	0.9	1.0	1.0	0.5	38.2
Avangard	AVGR LI	London Intl	1.99 USD	-0.5	-20.4	-2.9	-83.0	1.99	127.1	338.3	21.7	27.6	122.9	20.1	0.18	557	0.5	1.4	1.0	1.1	2.0	1.9	0.5	0.6	0.6	0.2	17.8
IMC	IMC PW	Warsaw	6.00 PLN	+0.0	+0.0	+5.8	-53.0	1.61	50.4	189.7	23.9	12.0	2.3	6.8	0.05	2,107	1.9	Neg.	2.1	3.5	3.7	3.7	1.7	1.2	1.1	0.3	38.7
Kernel Holding...	KER PW	Warsaw	30.23 PLN	-5.4	+13.2	+6.2	-25.4	8.11	646.4	1,291.6	58.8	379.9	655.7	1,009.3	0.26	392	Neg.	3.9	4.2	5.8	3.7	4.0	0.5	0.5	0.5	0.6	39.1
KSG Agro	KSG PW	Warsaw	1.16 PLN	+0.0	+0.9	+3.6	-88.9	0.31	4.7	115.8	34.4	1.6	1.5	36.6	0.91	109	Neg.	N/A	0.2	13.3	N/A	N/A	1.6	1.2	1.0	0.3	44.5
MHP	MHPC LI	London Intl	9.30 USD	+0.4	-1.1	+1.1	-47.2	9.30	982.7	2,113.1	22.3	219.3	247.1	378.4	0.27	376	6.3	16.4	3.5	5.4	4.3	4.3	1.4	1.5	1.5	1.9	47.0
Milkiland	MLK PW	Warsaw	1.49 PLN	-1.3	-18.6	+0.7	-85.7	0.40	12.5	128.9	20.0	2.5	9.4	9.2	0.62	160	1.0	Neg.	Neg.	3.9	4.5	4.5	0.3	0.4	0.5	0.1	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	0.53 EUR	-10.2	-41.9	-5.9	-90.0	0.61	65.0	792.8	20.0	13.0	0.0	0.5	0.01	9,361	0.7	0.7	0.3	4.8	2.9	2.7	1.6	1.9	1.8	0.2	45.3
Ovostar Union	OVO PW	Warsaw	71.00 PLN	-1.4	-1.4	-1.4	-22.8	19.05	114.3	124.1	25.0	28.6	2.6	30.4	0.11	931	3.7	5.8	5.7	3.4	4.5	4.4	1.4	1.6	1.3	0.8	8.5
CONSTRUCTION																											
TMM	TR61 GF	Frankfurt	0.07 EUR	+0.0	-10.0	-10.0	-77.3	0.08	4.3	131.4	13.1	0.6	0.0	0.1	0.01	15,008	Neg.	N/A	N/A	Neg.	N/A	N/A	3.9	N/A	N/A	0.0	45.5
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.09 UAH	+0.0	-6.7	-3.6	-18.0	0.01	174.9	N/A	3.8	6.7	5.0	16.6	0.23	429	2.7	Neg.	11.7	N/A	N/A	N/A	N/A	N/A	N/A	0.4	22.4
Ukrsotsbank	USCB UK	Kiev, UX	0.13 UAH	+0.0	-7.1	-0.1	-27.4	0.01	202.4	N/A	4.5	9.1	0.8	0.9	0.01	8,445	Neg.	13.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	28.2

Notes: mln - millions; FF - free float; n/a - not available; neg. - negative; a company name (the left column of the table) is shortened to fit the column and hence in some cases is not displayed in full; *** - P/E is above 10,000x. Sources: Bloomberg, ICU.

FX: News & Comments

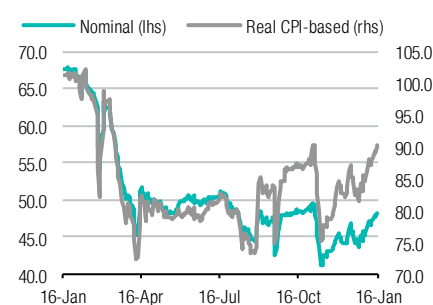
USD rising, RUB appears pegged

Over past few days, the global FX market has experienced increased volatility sparked by the Swiss central bank's decision to abolish the 1.2 ceiling on the FX rate to the euro and introduce a negative deposit rate. In this environment, the euro and CEE currencies rates to the USD declined as the USD rose. In Russia, authorities appear to have pegged the ruble to the dollar at 65/USD. In this environment, the hryvnia's trade weighted value rose 0.15% yesterday and 5.7% YTD.

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ICU's UAH trade-weighted indices

(Last 12-month history to 16 Jan 2015)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 16 Jan 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	15.8475	+0.14	+0.31	+0.15	+0.17
NBU avg	15.7980	+0.14	+0.31	+0.15	+0.19
Ttl vlm ¹	267.10	+15.95	+0.75	-4.00	-38.01
\$ volume ²	205.74	+13.87	-0.57	-0.85	-41.93
NDF 3M	16.8500	+0.00	+0.00	+1.20	+0.00
NDF 6M	17.4000	+0.00	+0.00	+1.16	+0.00
NDF 1Y	18.4500	+0.00	+0.00	+1.10	+0.00
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	48.277	+0.15	+2.75	+3.40	+5.56
UAH real CPI	90.123	+0.15	+2.75	+3.40	+5.56
UAH real PPI	129.375	+0.15	+2.75	+3.40	+5.56
USD nom'l	92.520	+0.18	+0.64	+4.99	+2.49
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	65.3060	+0.24	+5.27	-3.84	+7.52
EUR/USD	1.1567	-0.57	-2.32	-7.55	-4.39
USD/CNY	6.2078	+0.32	-0.01	+0.28	+0.04
USD/PLN	3.7264	+0.47	+3.41	+10.56	+5.16
USD/TRY	2.3259	+0.67	+1.36	-1.65	-0.39
USD/BYR	15,255.00	+0.03	+9.39	+39.38	+38.68
USD/KZT	184.1200	+0.14	+0.58	+0.30	+0.97
OTHER MAJOR CURRENCIES					
USD/JPY	117.5100	+1.15	-0.84	+0.94	-1.90
GBP/USD	1.5150	-0.22	-0.07	-3.81	-2.74
USD/CHF	0.8587	+2.32	-15.34	-10.54	-13.64
AUD/USD	0.8223	+0.07	+0.23	+0.06	+0.59
USD/CAD	1.1984	+0.19	+0.99	+3.07	+3.12
USD/BRL	2.6223	-0.75	-0.40	-4.25	-1.33
USD/KRW	1,077.23	-0.55	-1.14	-0.85	-1.26
COMMODITIES					
Gold(\$/oz)	1,280.45	+1.40	+4.74	+6.98	+8.07
WTI crude ³	48.69	+5.28	+0.68	-12.94	-8.60
Brent crd ³	47.69	+2.94	-3.40	-19.40	-14.47
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	224.24	+1.73	-0.59	-6.08	-2.49

Notes: [1] trading volume in all foreign currencies (US\$m); [2] trading volume in the pair USD/UAH (US\$m); [3] crude oil price (USD per barrel); [4] the Thomson Reuters/Jefferies CRB Index. A green-/red-shaded box means gain or loss, respectively, of the investment into the asset. Currencies are gaining when their exchange rates strengthen versus USD.

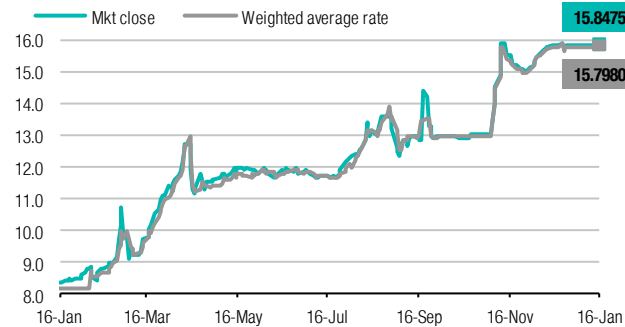
Sources: Bloomberg, Investment Capital Ukraine LLC.

Readers may follow the ICU trade-weighted indices of the local-currency, the hryvnia (UAH), on the ICU [website](#) and Bloomberg (type: ALLX UTWI <GO>).

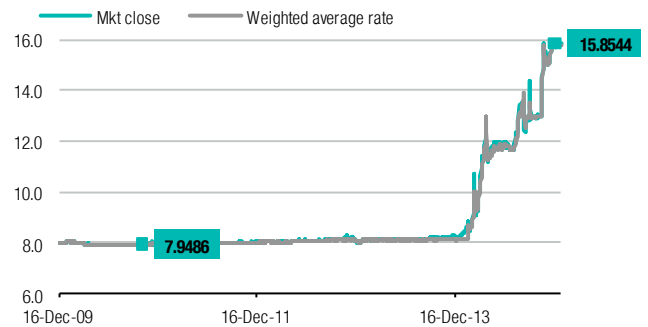
Section on FX market is continued on next page.

Chart page #1: Foreign-exchange market

Chart 9. Spot market rates USD/UAH: last 12-month and 5-year periods (UAH per USD, left and right respectively)

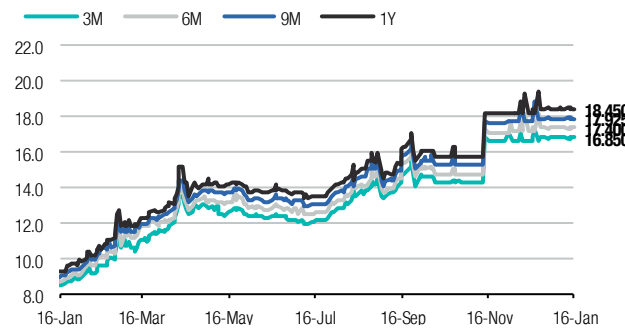


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

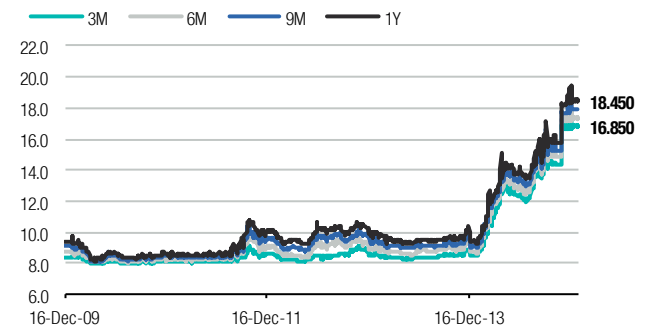


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

Chart 10. NDF market rates USD/UAH: last 12-month and 5-year periods (UAH per USD, left and right respectively)

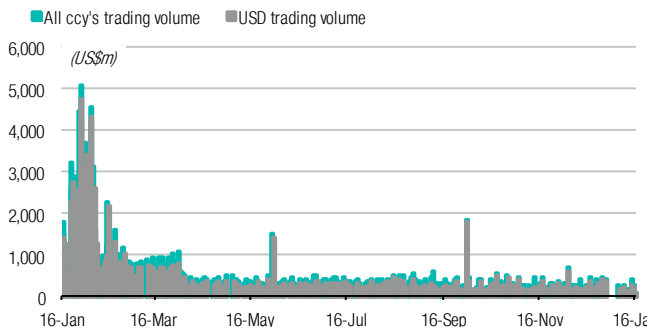


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

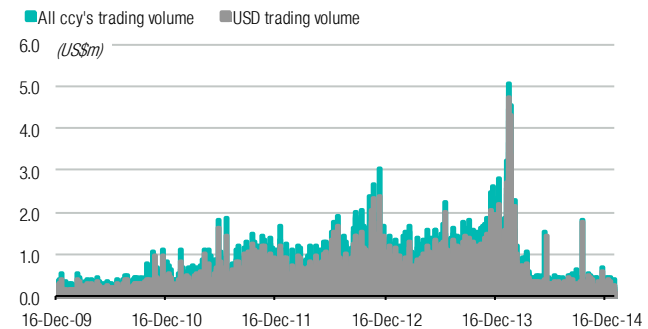


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

Chart 11. Trading volume: last 12-month and 5-year periods (US\$m, left and right respectively)

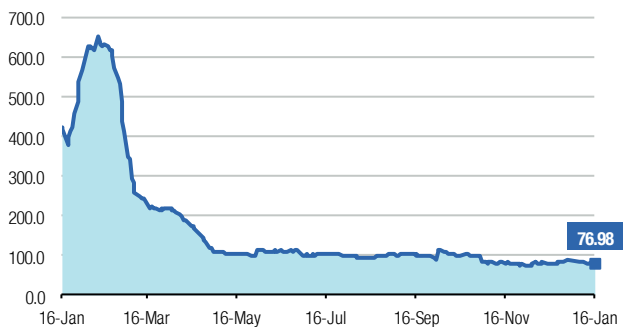


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

Chart 12. 30D MA* ratio of FX market turnover to merchandise trade: last 12m and 5yr periods (% , left and right respectively)



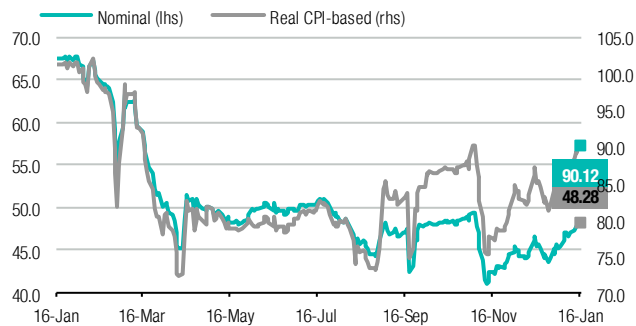
Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



Chart page #2: ICU's UAH trade-weighted indices

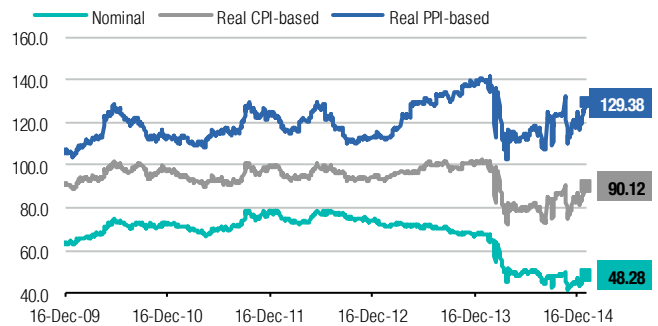
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August 2013.

Chart 13. Nominal and CPI-based real TWIs of UAH, history of last 12-month period



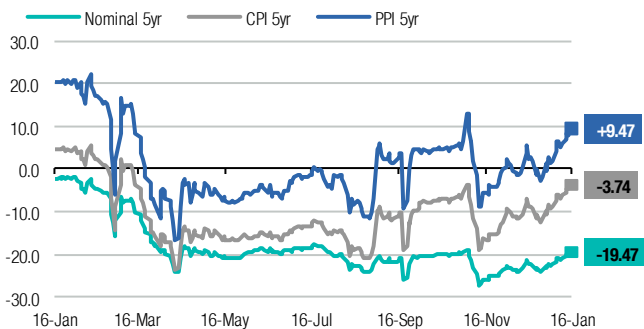
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

Chart 14. Nominal, CPI- and PPI-based TWIs of UAH, history of last 5-year period

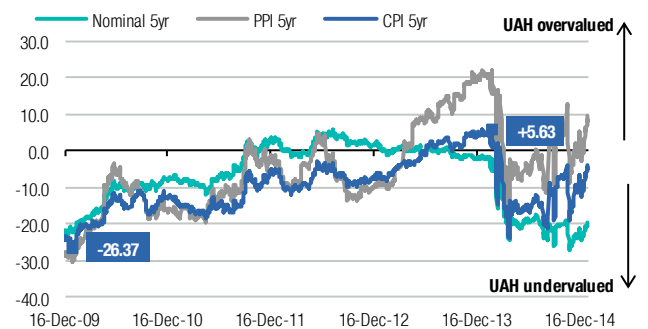


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

Chart 15. Deviation of UAH trade-weighted indices from their 5-year moving averages: last 12-month and 5-year periods (% , left and right respectively)

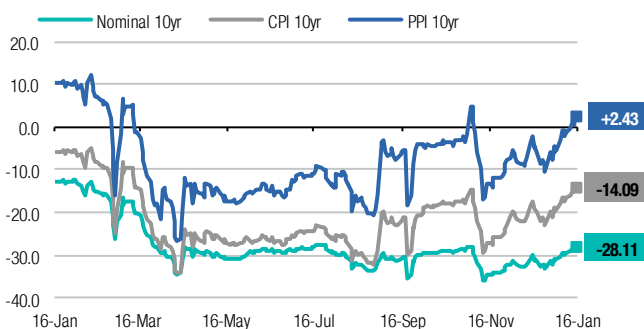


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

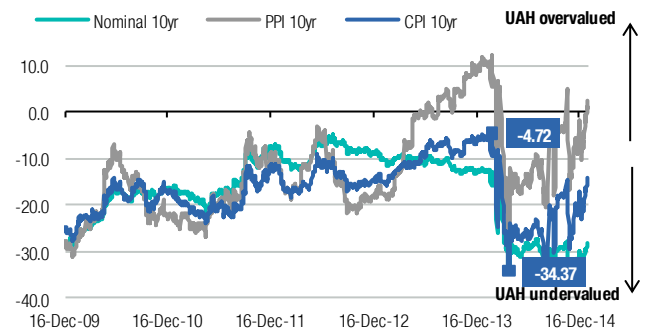


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

Chart 16. Deviation of UAH trade-weighted indices from their 10-year moving averages: last 12-month and 5-year periods (% , left and right respectively)



Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.



Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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Disclosures

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Buy: Forecasted 12-month total return greater than 20%

Hold: Forecasted 12-month total return 0% to 20%

Sell: Forecasted 12-month total return less than 0%

Note: total return is share price appreciation to a target price in relative terms plus forecasted dividend yield.

DEBT RATING DEFINITIONS

Buy: Forecasted 12-month total return significantly greater than that of relevant benchmark

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Sell: Forecasted 12-month total return significantly less than that of relevant benchmark



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