



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

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Daily Insight

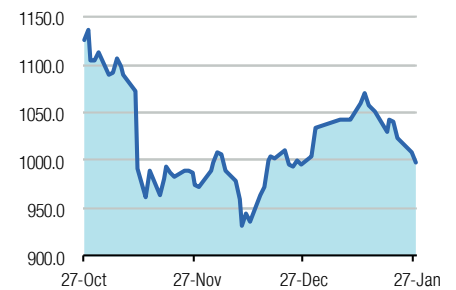
UAH weakened further by USD decline

WEDNESDAY, 28 JANUARY 2015

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UX Index (3 months to 28 Jan 2015)



Source: UX.

Key market indicators (as of 27 Jan 2015)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	15.9495	+0.56	+0.82
USD/UAH (1Y NDF)	18.4500	+0.00	+0.00
EUR/USD	1.1381	+1.27	-5.93
USD/RUB	67.5222	-1.36	+11.17
KievPRIME O/N (%)	11.25	+25bp	-765bp
KievPRIME 1M (%)	18.25	+0bp	-165bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	95.67	+733bp	+3,390bp
Ukraine 17, Eurobond (%)	40.91	-1bp	+1,315bp
Ukraine 22, Eurobond (%)	19.75	+1bp	+350bp
Ukraine 23, Eurobond (%)	18.58	+1bp	+302bp
Ukraine 5Y CDS	2,542bp	+64bp	+343bp
EQUITIES			
Stock market indices			
UX (Ukraine)	996.71	-1.07	-3.54
MSCI World	417.74	-0.35	+0.15
MSCI EM	989.83	+0.11	+3.51
RTS (Russia)	783.53	+0.28	-0.46
WIG-20 (Poland)	2,309.86	-0.42	-0.26
S&P 500 (USA)	2,029.55	-1.09	-1.43

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.

Bonds: News & Comments

Liquidity declines without inflows

As the NBU did not purchase the bonds sold at Monday's unscheduled primary auction, liquidity declined yesterday. Banks' correspondent accounts with the NBU fell UAH1.17bn to UAH30.51bn yesterday and the NBU decreased total CDs outstanding by UAH1.38bn to UAH24.07bn. As total local currency debt repayments scheduled for the next 30 days rose UAH0.50bn to UAH8.17bn, broader banking sector liquidity declined UAH2.05bn to UAH62.75bn.

KyivPrime interest rates slightly declined yesterday: the KyivPrime ON interest rate slid 13bp to 11.25% while the KyivPrime 1M interest rate was down 25bp to 18.25%.

Investment implications: By not covering Monday's outflows, the NBU allowed liquidity to decline slightly. Although month-end tax payments contributed as well, the decline caused no significant changes in banking system sustainability. If the NBU purchased no bonds yesterday, liquidity could fall further today.

Primary auction results

The MoF sold UAH3.07bn of 3-month bonds at yesterday's auction, providing UAH2.95bn of proceeds. So far for January 2015, the MoF has raised UAH9.94bn, which exceeds domestic debt repayments by UAH2.33bn and is UAH2.27bn more than was scheduled for this month.

Investment implications: As demand was most likely supported by the NBU, we should see its portfolio increase in a few days.

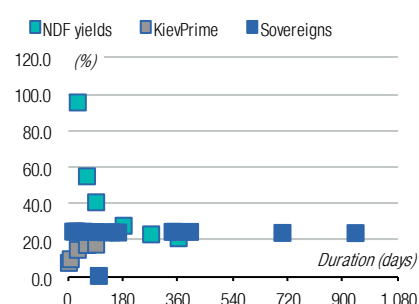
Eurobonds mostly stable

Ukrainian Eurobonds were mostly stable yesterday as spreads to the benchmark slightly diverged. Following the volatility of US treasury yields, the Ukrainian Eurobond yield curve adjusted to levels slightly below those on Monday, to 18.59-88.33%. The 5-year CDS rose to 2,541.74bp.

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Yield curve of the local bond market

(as of market close on 27 Jan 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 27 Jan 2015)

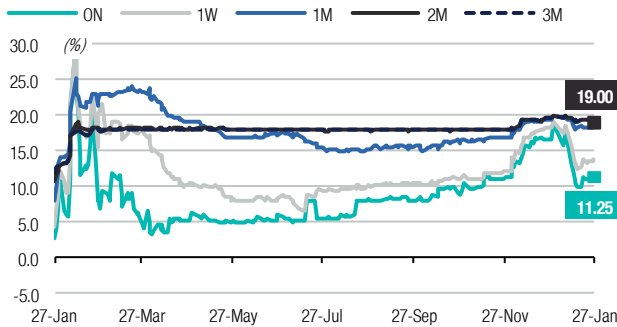
	Last	Daily chg (%)	Weekly chg (%)	MoM chg (%)	YTD chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
O/n	11.25	+25bp	-5bp	-535bp	-765bp
1wk	13.75	+25bp	+5bp	-465bp	-525bp
1m	18.25	+0bp	-15bp	-115bp	-165bp
2m	19.00	-25bp	-40bp	-60bp	-100bp
3m	19.00	-25bp	-40bp	-60bp	-100bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
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	323,339	+0.00	+0.00	+9.05	+1.64
Banks	93,611	+1.78	+1.57	+5.74	+0.19
Resid's ⁴	23,655	-0.34	+0.11	-3.26	-3.65
Non-res ⁵	20,931	-1.30	-1.23	-2.66	-2.85
Total	461,536	+0.28	+0.26	+7.09	+0.85
NDF IMPLIED YIELDS (%)					
3m	N/A	N/A	N/A	N/A	N/A
6m	N/A	N/A	N/A	N/A	N/A
9m	N/A	N/A	N/A	N/A	N/A
1yr	N/A	N/A	N/A	N/A	N/A
LOCAL CURRENCY UAH SOVEREIGN BOND YIELDS (%)					
Mar '13	N/A	-52ppt	+0bp	+0bp	+0bp
Jan '14	N/A	+320bp	+0bp	+0bp	+0bp
Aug '15 ⁶	N/A	+8bp	+0bp	+0bp	+0bp
EUROBONDS USD SOVEREIGN BOND YIELDS (%)					
CDS 5yr	2,542	+64bp	-129bp	+571bp	+343bp
Jun '16	72.87	+1bp	+26bp	+39bp	+36bp
Jul '17	40.91	-1bp	+437bp	+14bp	+13bp
Sep '20	22.59	+0bp	+217bp	+489bp	+374bp
Sep '21	21.94	+0bp	+192bp	+513bp	+340bp
Sep '22	19.75	+1bp	+141bp	+463bp	+350bp
Feb '23	18.58	+1bp	+92bp	+391bp	+302bp

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.

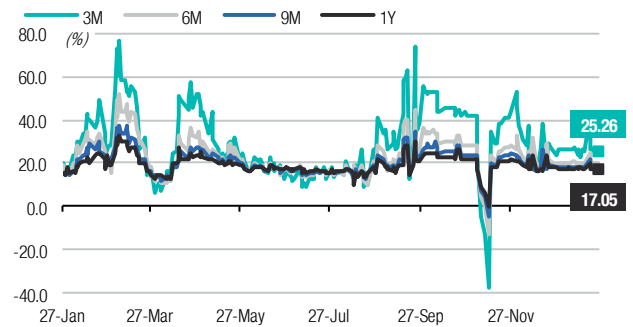
Chart page: Local bond market & Eurobond markets

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



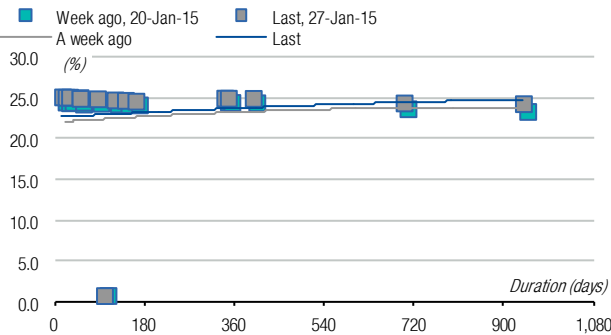
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



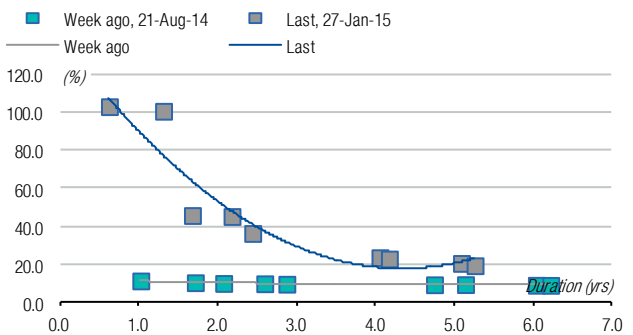
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 27 Jan 2015



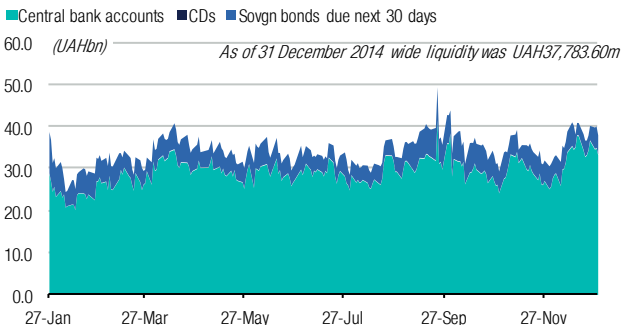
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 27 Jan 2015



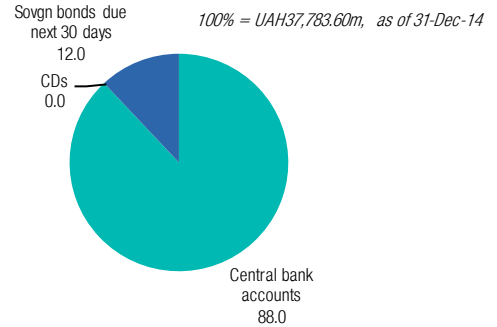
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



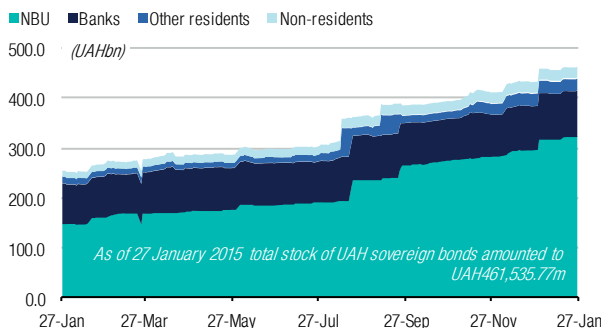
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 27 Jan 2015



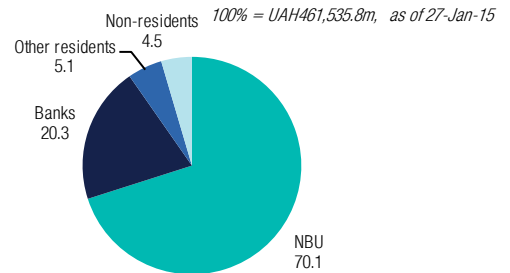
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 27 Jan 2015



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

Table 1. Ukrainian stocks (closing prices as of 27-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	9.75 GBp	-1.3	-2.5	-2.5	-17.0	0.15	34.2	-13.4	40.2	13.8	29.4	15.4	0.09	1,159	Neg.	N/A	N/A	2.0	N/A	N/A	Neg.	N/A	N/A	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	7.26 UAH	-0.7	-0.6	-3.7	+65.1	0.46	169.2	157.3	21.7	36.7	55.9	45.3	0.10	1,015	5.5	4.4	7.2	0.2	2.6	2.9	0.3	0.2	0.2	1.0	16.3
Coal Energy	CLE PW	Warsaw	0.65 PLN	-1.5	+1.6	+4.8	-44.0	0.17	7.8	108.2	25.0	2.0	0.9	10.8	0.29	348	Neg.	N/A	N/A	4.8	N/A	N/A	0.9	N/A	N/A	0.1	39.8
Donbasenergo	DOEN UK	Kiev, UX	31.64 UAH	+2.7	-1.1	-4.1	+2.3	1.99	47.2	97.2	14.2	6.7	0.1	7.6	0.14	726	1.4	1.2	1.2	0.1	1.6	1.2	0.3	0.2	0.2	1.1	25.1
JKX Oil & Gas	JKX LN	London	12.00 GBp	-1.0	-4.0	+0.0	-82.5	0.18	31.3	36.4	47.2	14.8	49.9	77.3	0.45	220	4.8	5.2	0.9	0.5	0.7	0.6	0.2	0.2	0.2	0.1	5.5
Regal Petroleum	RPT LN	London	3.44 GBp	-3.5	+1.9	+10.1	-74.0	0.05	16.7	-13.4	80.9	13.5	0.0	2.5	0.02	4,912	Neg.	8.4	N/A	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.1	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	135.00 UAH	+0.0	-12.3	-8.8	+61.7	8.51	108.9	120.9	5.0	5.4	0.0	1.0	0.02	5,129	3.0	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	-3.0	-8.9	-9.7	-62.9	0.00	21.3	1,827.3	3.9	0.8	0.4	1.5	0.23	443	Neg.	Neg.	N/A	Neg.	Neg.	N/A	2.0	1.1	N/A	N/A	85.7
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.20 UAH	-14.2	-30.3	-30.6	-55.1	0.08	14.8	-24.7	4.0	0.6	3.2	2.5	0.76	131	Neg.	Neg.	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.0	0.1
Azovstal	AZST UK	Kiev, UX	0.69 UAH	-3.4	-2.0	-7.7	+17.2	0.04	182.4	147.2	4.1	7.5	18.0	7.6	0.10	1,004	Neg.	Neg.	N/A	Neg.	4.2	N/A	0.1	0.1	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	55.00 GBp	-3.5	+11.7	+3.8	-65.2	0.84	491.6	1,143.0	22.4	110.1	1,239.3	802.1	0.76	131	1.9	2.1	6.3	2.3	2.6	4.2	0.7	0.8	0.9	0.4	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.25 UAH	-24.2	+4.2	-10.7	-55.4	0.02	4.3	5.0	9.0	0.4	0.1	0.7	0.24	414	Neg.	0.5	0.3	0.1	0.3	N/A	0.0	0.0	0.0	0.0	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	19.17 UAH	-1.8	-9.8	-8.5	-38.2	1.21	12.8	4.4	9.4	1.2	2.1	4.4	0.40	249	Neg.	Neg.	N/A	0.8	0.1	N/A	0.0	0.0	N/A	0.9	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.36 EUR	+0.0	-18.2	-16.3	-70.0	0.41	37.8	86.9	34.0	12.8	40.9	12.2	0.16	624	Neg.	N/A	N/A	Neg.	N/A	N/A	1.4	N/A	N/A	0.8	35.9
Agroliga	AGL PW	Warsaw	9.56 PLN	+0.6	+2.8	+6.2	-63.1	2.56	3.9	4.7	16.7	0.7	3.4	3.1	0.52	193	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	1.26 PLN	-4.5	+5.9	+2.4	-50.4	0.34	7.3	52.6	26.2	1.9	21.1	35.8	1.69	59	Neg.	N/A	N/A	19.7	17.5	N/A	0.6	0.6	N/A	0.1	28.4
Astarta Holdin...	AST PW	Warsaw	25.30 PLN	-0.8	+44.0	+26.5	-62.0	6.79	169.7	412.8	31.0	52.6	30.2	119.7	0.12	851	5.8	Neg.	4.3	5.4	3.7	4.5	1.0	1.0	1.1	0.6	38.2
Avangard	AVGR LI	London Intl	1.90 USD	+0.0	-17.4	-7.3	-83.5	1.90	121.4	332.6	21.7	26.3	0.0	28.0	0.21	466	0.5	1.3	1.0	1.1	1.9	1.9	0.5	0.6	0.6	0.1	17.8
IMC	IMC PW	Warsaw	6.00 PLN	+1.7	+0.2	+5.8	-47.3	1.61	50.4	189.6	23.9	12.0	5.5	5.0	0.04	2,708	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	31.45 PLN	+0.8	+6.2	+10.5	-23.7	8.44	672.2	1,316.5	58.8	395.1	380.5	1,043.6	0.21	488	Neg.	4.2	4.2	5.9	3.8	3.9	0.6	0.5	0.5	0.7	39.1
KSG Agro	KSG PW	Warsaw	1.04 PLN	-2.8	-2.8	-7.1	-88.8	0.28	4.2	115.3	34.4	1.4	6.0	30.3	1.00	100	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	9.10 USD	-2.5	-0.5	-1.1	-44.6	9.10	961.6	2,092.0	22.3	214.6	256.5	320.8	0.12	817	6.2	32.2	3.4	5.4	4.1	4.2	1.4	1.5	1.4	1.9	47.0
Milkiland	MLK PW	Warsaw	2.06 PLN	+8.4	+28.8	+39.2	-79.4	0.55	17.3	131.6	20.0	3.5	39.9	15.3	0.60	168	1.4	Neg.	Neg.	4.0	4.6	4.6	0.3	0.4	0.5	0.1	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	0.57 EUR	+0.0	-17.8	+1.6	-89.0	0.65	68.9	796.7	20.0	13.8	0.0	0.7	0.01	10,671	0.8	0.8	0.3	4.8	2.9	2.7	1.6	1.9	1.8	0.2	45.3
Ovostar Union	OVO PW	Warsaw	74.00 PLN	+1.4	+2.9	+2.8	-9.6	19.85	119.1	128.7	25.0	29.8	4.0	31.5	0.09	1,098	3.9	4.8	5.9	3.5	4.1	4.5	1.4	1.6	1.4	0.9	8.5
CONSTRUCTION																											
TMM	TR61 GF	Frankfurt	0.09 EUR	+0.0	+12.5	+12.5	-71.6	0.10	5.3	132.4	13.1	0.7	0.0	0.1	0.00	120,917	Neg.	N/A	N/A	Neg.	N/A	N/A	3.9	N/A	N/A	0.1	45.5
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.09 UAH	-0.1	-3.8	-5.3	-17.5	0.01	171.8	N/A	3.8	6.6	1.5	16.2	0.12	811	2.7	Neg.	11.5	N/A	N/A	N/A	N/A	N/A	N/A	0.5	22.4
Ukrsotsbank	USCB UK	Kiev, UX	0.12 UAH	+0.0	-6.5	-7.8	-33.7	0.01	186.7	N/A	4.5	8.4	0.0	0.9	0.02	6,208	Neg.	10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.2	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

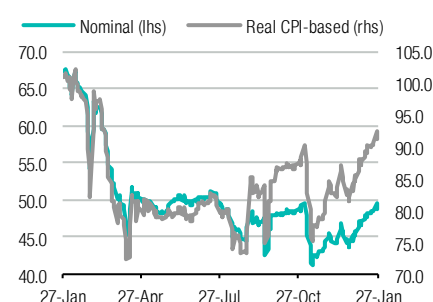
UAH weakened further by USD decline

After a steady multi-day rally, the US dollar declined 1.27% versus the euro and 0.82% in trade-weighted terms (see Bloomberg DXY). US financial market sentiment turned negative on prospects that a strong dollar undercutting growth for domestic multi-national companies. Although we see the retreat of the US dollar to be only temporary, the hryvnia's real TWI fell 1.27% as external FX market adjustments only added to domestic conditions.

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ICU's UAH trade-weighted indices

(Last 12-month history to 28 Jan 2015)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 27 Jan 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	15.9495	+0.56	+0.58	+0.82	+0.82
NBU avg	15.8996	+0.57	+0.81	+0.83	+0.83
Ttl vlm ¹	421.24	+74.05	+177.1	-4.82	-2.24
\$ volume ²	369.36	+88.28	+190.9	-3.76	+4.25
NDF 3M	16.8500	+0.00	-3.93	+0.00	+0.00
NDF 6M	17.4000	+0.00	-1.93	+0.00	+0.00
NDF 1Y	18.4500	+0.00	-2.60	+0.00	+0.00
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	48.796	-1.27	+1.00	+10.91	+6.69
UAH real CPI	91.093	-1.27	+1.00	+10.91	+6.69
UAH real PPI	130.768	-1.27	+1.00	+10.91	+6.69
USD nom'l	94.022	-0.82	+1.05	+4.43	+4.16
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	67.5222	-1.36	+3.49	+26.21	+11.17
EUR/USD	1.1381	+1.27	-1.46	-6.58	-5.93
USD/CNY	6.2432	-0.20	+0.47	+0.49	+0.61
USD/PLN	3.7254	-0.67	-0.70	+3.75	+5.13
USD/TRY	2.3644	+0.44	+0.77	+1.97	+1.26
USD/BYR	15,360.00	+1.25	+1.65	+39.64	+39.64
USD/KZT	184.6700	+0.14	+0.45	+1.18	+1.27
OTHER MAJOR CURRENCIES					
USD/JPY	117.8700	-0.50	-0.80	-2.03	-1.59
GBP/USD	1.5197	+0.79	+0.34	-2.32	-2.44
USD/CHF	0.9029	+0.00	+3.11	-8.57	-9.19
AUD/USD	0.7937	+0.15	-2.88	-2.27	-2.91
USD/CAD	1.2399	-0.60	+2.36	+6.64	+6.69
USD/BRL	2.5735	-0.26	-1.52	-3.59	-3.16
USD/KRW	1,079.75	-0.10	-0.79	-1.73	-1.03
COMMODITIES					
Gold(\$/oz)	1,292.24	+0.85	-0.24	+8.05	+9.06
WTI crude ³	46.23	+2.39	-0.34	-15.53	-13.22
Brent crd ³	46.54	+2.85	+2.35	-19.52	-16.54
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	217.91	+0.60	-0.48	-7.13	-5.24

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.

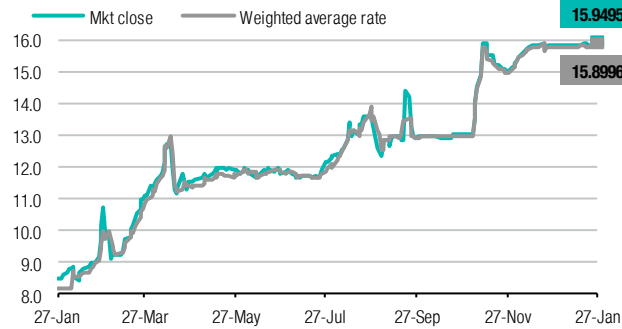
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

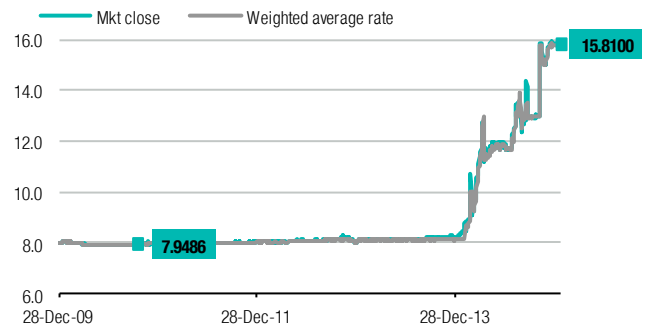
Section on FX market is continued on next page.

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)

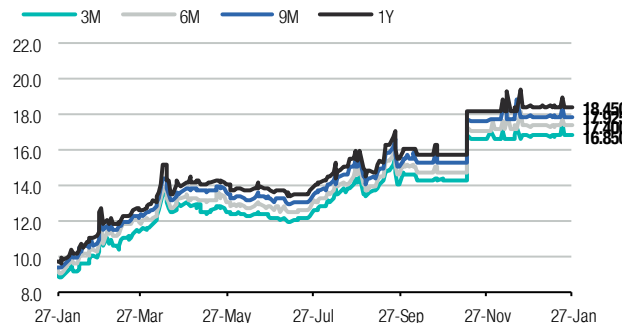


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

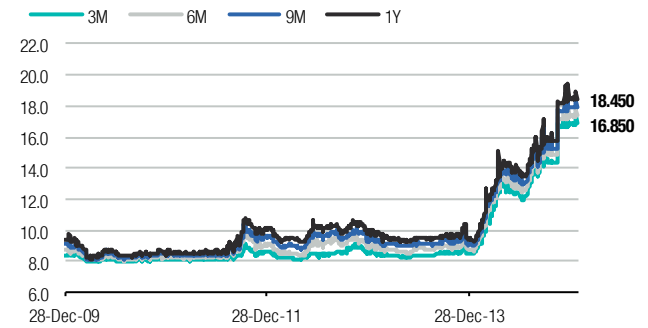


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

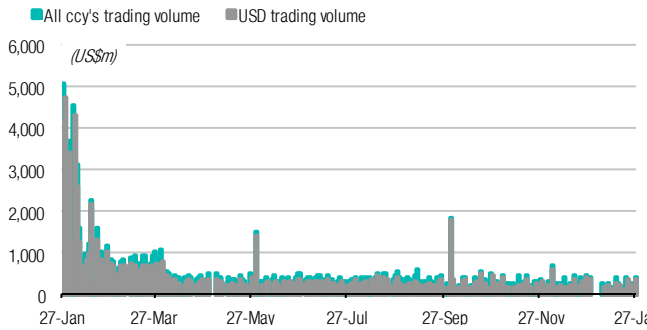


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

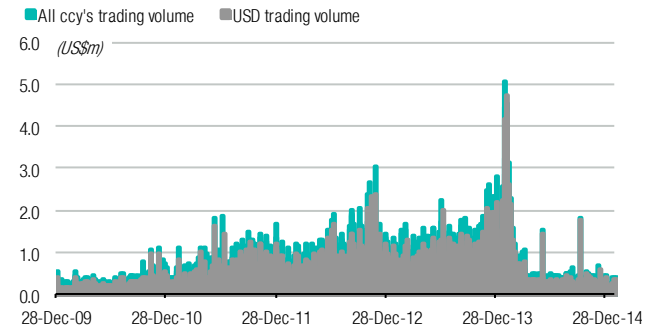


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

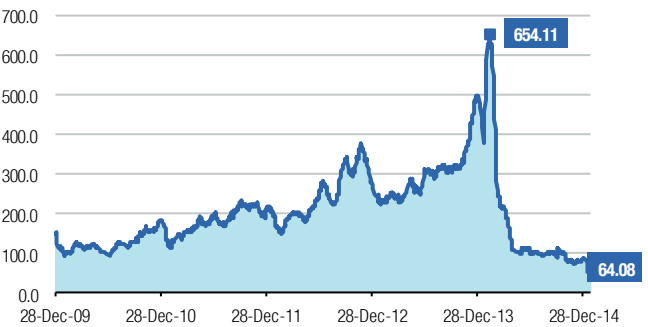
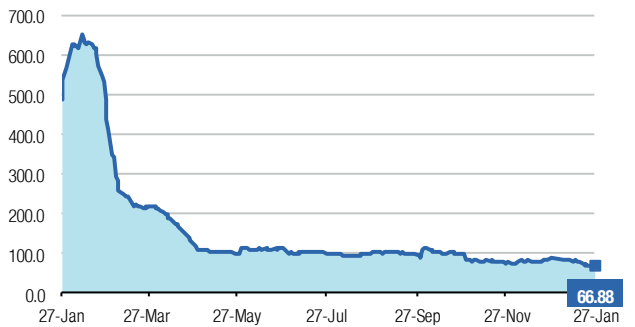


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

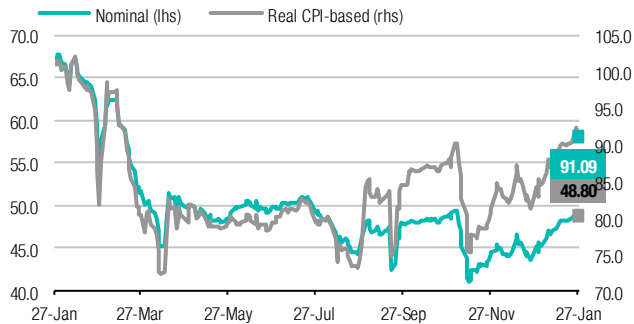


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

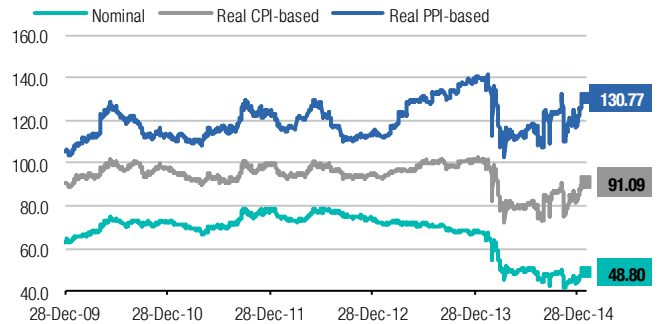
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



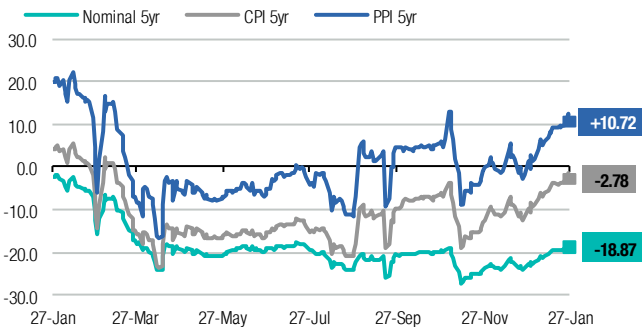
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

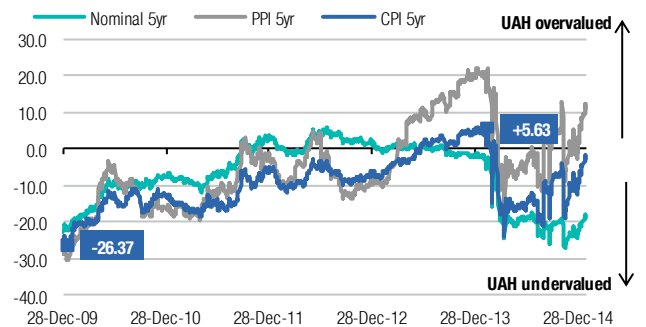


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

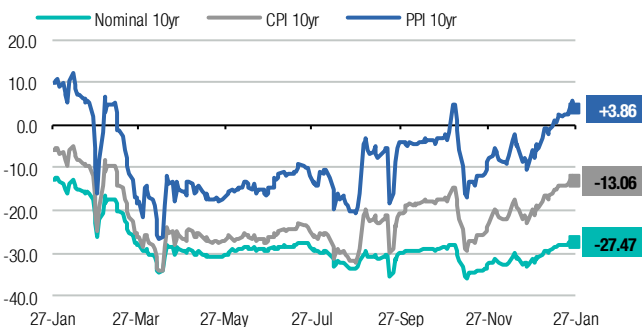


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

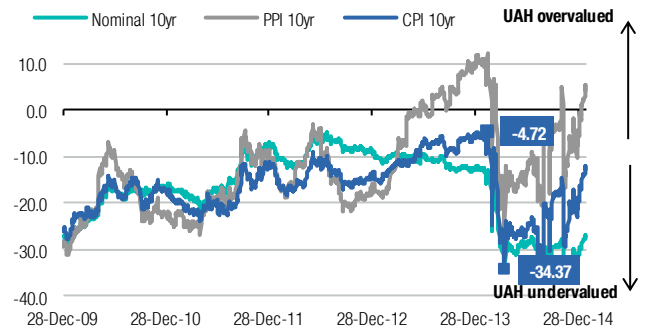


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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

Hold: Forecasted 12-month total return is in line with or modestly deviates from relevant benchmark

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



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