



Focus  
**Ukraine**

Scope  
**Economics, bonds, equity & FX markets**

Research team  
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# Daily Insight

## MoF resumes primary auctions

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**TUESDAY, 12 JANUARY 2016**

### UX Index (3 months to 12 Jan 2016)



Source: UX.

### Key market indicators (as of 11 Jan 2016)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	23.4000	+0.21	-2.61
USD/UAH (1Y NDF)	27.6500	-2.49	+8.45
EUR/USD	1.0859	-0.58	-0.03
USD/RUB	76.1895	+1.93	+5.06
KievPRIME O/N (%)	18.79	-1bp	-27bp
KievPRIME 1M (%)	22.30	+5bp	+5bp
<b>SOVEREIGN EUROBONDS: yields and spreads</b>			
Ukraine 15, Eurobond (%)	N/A	+0bp	+0bp
Ukraine 17, Eurobond (%)	29.14	+26bp	+0bp
Ukraine 22, Eurobond (%)	12.32	-1bp	+0bp
Ukraine 23, Eurobond (%)	11.85	+0bp	+0bp
Ukraine 5Y CDS	0bp	+0bp	+0bp
<b>EQUITIES</b>			
<b>Stock market indices</b>			
UX (Ukraine)	662.13	-2.15	-3.46
MSCI World	373.10	-0.44	-6.58
MSCI EM	723.36	-2.26	-8.91
RTS (Russia)	699.13	-5.12	-7.65
WIG-20 (Poland)	1,703.78	-1.24	-8.36
S&P 500 (USA)	1,923.67	+0.09	-5.88

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 down slightly

Banking sector liquidity slightly declined yesterday, down UAH1.44bn to UAH116.41bn, after last week's significant volatility. Banks' correspondent accounts with the NBU rose UAH0.65bn to UAH28.92bn while total CDs outstanding fell UAH2.09bn to UAH87.49bn.

**Investment implications:** Liquidity saw high volatility at the beginning of the year, as only two CD tenders last week caused liquidity to decline below UAH100.0bn, although it recovered immediately. This high level of liquidity was caused by the MoF's significantly accelerated budget expenditures at the end of 2015, wherein the treasury account balance fell to UAH9.02bn from nearly UAH48bn a month before. During January, we could see liquidity decline, mostly in CDs outstanding, and a significant recovery at the treasury accounts, as the MoF will resume absorbing funds for budget expenditures. We expect liquidity to decline to UAH100.0bn or below.

## MoF resumes primary auctions

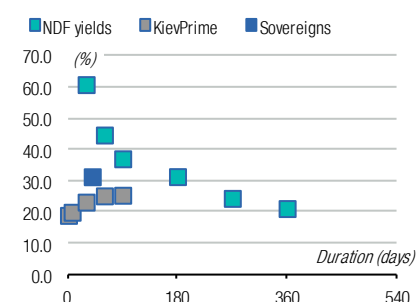
The MoF will hold its debut primary auction in 2016 tomorrow, the first since the end of July 2015, offering a 12-month zero-coupon bond with redemption on January 11, 2017, with the payment date is set for tomorrow, January 13, 2016.

**Investment implications:** The debut auction should attract significant demand, as there is a significant amount of liquidity in the banking sector, most of which is currently invested in NBU CDs, particularly as only a portion of the demand for government bonds was satisfied at last month's NBU auctions. We anticipate bids at about 19% and higher, and possibly a few small bids below this level. At the same time, the MoF could accept only bids with the lowest interest rates to set a benchmark for 2016 budget borrowings.

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## Yield curve of the local bond market

(as of market close on 11 Jan 2016)



Sources: Bloomberg, Investment Capital Ukraine LLC.

## Bond market indicators (as of 11 Jan 2016)

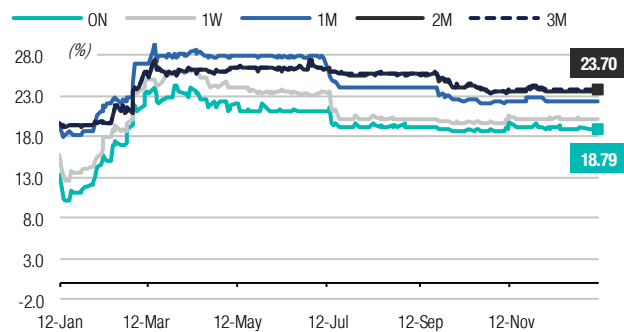
	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>MONEY MARKET KIEV PRIME RATES (%)</b>					
O/n	18.79	-1bp	-27bp	-34bp	-27bp
1wk	20.10	+10bp	+10bp	-9bp	+10bp
1m	22.30	+5bp	+5bp	+5bp	+5bp
2m	23.50	+12bp	+0bp	+12bp	+0bp
3m	23.70	+7bp	-5bp	+7bp	-5bp
<b>LIQUIDITY WIDE MEASUREMENT (UAHm)</b>					
CB acc's <sup>1</sup>	28,924	+2.30	+4.42	-2.56	-24.80
CDs <sup>2</sup>	87,486	-2.34	-1.99	+36.74	+0.79
Sovgns <sup>3</sup>	5,615	+22.81	-6.16	-34.13	+18.64
<b>Total</b>	<b>122,026</b>	<b>-0.33</b>	<b>-0.75</b>	<b>+19.41</b>	<b>-6.13</b>
<b>HOLDERS OF UAH SOVEREIGN BONDS (UAHm)</b>					
C.bank	389,922	+0.00	+0.00	+4.20	+2.66
Banks	80,522	-0.60	-1.30	-0.50	-1.28
Resid's <sup>4</sup>	11,032	+0.10	-1.43	-48.14	-47.46
Non-res <sup>5</sup>	22,057	-1.03	-1.82	-0.44	-1.12
<b>Total</b>	<b>503,533</b>	<b>-0.14</b>	<b>-0.33</b>	<b>+0.99</b>	<b>-0.23</b>
<b>NDF IMPLIED YIELDS (%)</b>					
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
<b>LOCAL CURRENCY UAH SOVEREIGN BOND YIELDS (%)</b>					
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 <sup>6</sup>	N/A	N/A	N/A	N/A	N/A
<b>EUROBONDS USD SOVEREIGN BOND YIELDS (%)</b>					
CDS 5yr	0	+0bp	+0bp	+0bp	+0bp
Jun '16	67.67	+114bp	+0bp	+0bp	+0bp
Jul '17	29.14	+26bp	+0bp	+0bp	+0bp
Sep '20	14.02	+4bp	+0bp	+0bp	+0bp
Sep '21	14.22	+0bp	+0bp	+0bp	+0bp
Sep '22	12.32	-1bp	+0bp	+319bp	+0bp
Feb '23	11.85	+0bp	+0bp	+292bp	+0bp

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.

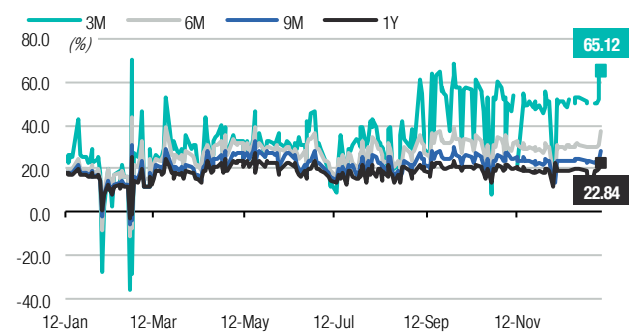
Chart page: Local bond market & Eurobond markets

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



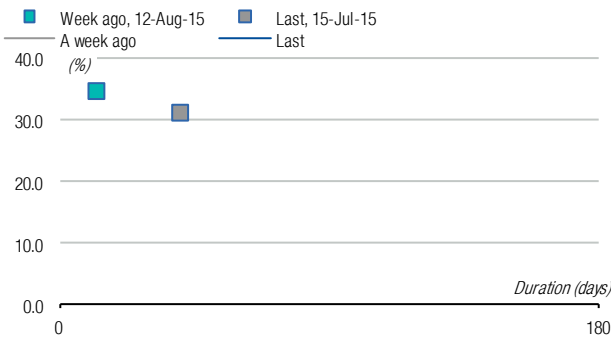
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



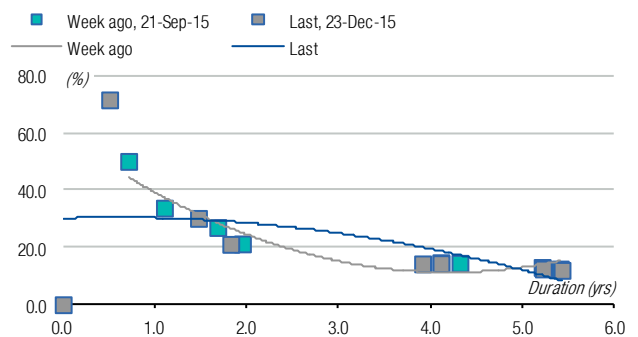
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 11 Jan 2016



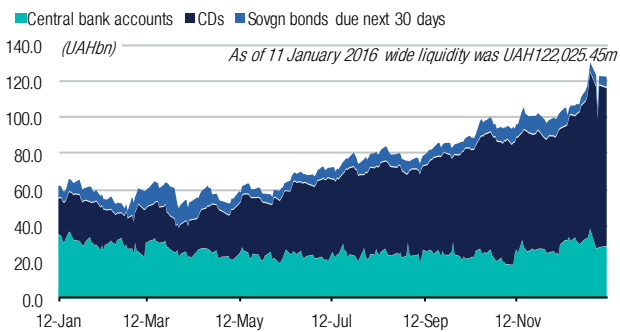
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 11 Jan 2016



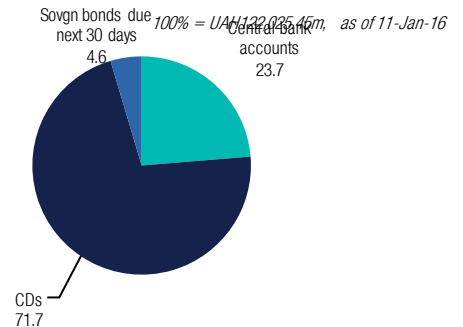
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



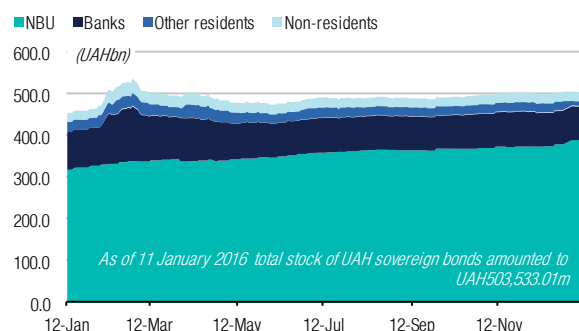
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 11 Jan 2016



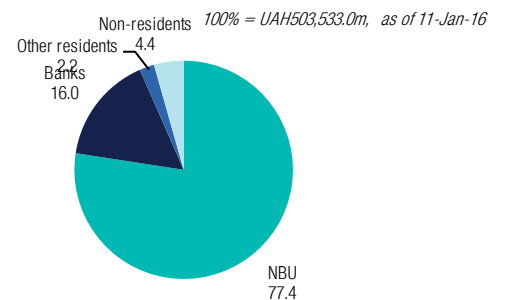
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 11 Jan 2016



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

Table 1. Ukrainian stocks (closing prices as of 11-Jan-2016)

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 (%)
<b>ENERGY</b>																											
Cadogan Petrol...	CAD LN	London	8.88 GBp	+2.9	+6.0	+9.2	-9.0	0.13	29.8	-19.3	40.2	12.0	31.7	9.4	0.16	639	Neg.	N/A	N/A	2.8	N/A	N/A	Neg.	N/A	N/A	0.4	15.3
Centrenerg	CEEN UK	Kiev, UX	4.33 UAH	+0.0	-4.7	-5.2	-43.9	0.18	68.0	56.1	21.7	14.8	6.0	9.3	0.07	1,528	22.6	Neg.	5.0	0.2	Neg.	1.7	0.2	0.2	0.1	0.7	4.2
Coal Energy	CLE PW	Warsaw	0.52 PLN	+0.0	+10.6	-1.9	-30.7	0.13	5.8	77.4	25.0	1.5	0.1	0.9	0.07	1,494	Neg.	N/A	N/A	10.6	N/A	N/A	0.7	N/A	N/A	0.2	56.9
Donbasenergo	DOEN UK	Kiev, UX	15.37 UAH	+0.0	-7.8	-2.5	-55.9	0.65	15.5	26.0	14.2	2.2	0.7	2.2	0.12	835	3.6	Neg.	N/A	0.0	N/A	N/A	0.1	0.1	N/A	0.3	13.6
JKX Oil & Gas	JKX LN	London	25.75 GBp	-2.8	-6.4	-5.5	+106.0	0.37	64.3	75.0	47.2	30.3	0.8	20.6	0.01	9,912	Neg.	Neg.	Neg.	Neg.	2.9	3.0	0.5	0.7	1.0	0.2	9.9
Regal Petroleum	RPT LN	London	3.31 GBp	-11.9	-12.5	-11.9	-25.2	0.05	15.4	-18.0	80.9	12.5	0.3	2.9	0.06	1,621	2.7	N/A	N/A	Neg.	N/A	N/A	Neg.	Neg.	N/A	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	84.00 UAH	+0.0	-6.7	+0.0	-43.3	3.57	45.7	78.8	5.0	2.3	0.0	1.0	0.04	2,411	Neg.	N/A	N/A	0.1	N/A	N/A	0.2	N/A	N/A	0.5	11.6
<b>METALLURGY</b>																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	+0.0	-12.7	-2.9	-26.2	0.00	11.8	1,758.2	3.9	0.5	0.2	0.2	0.06	1,636	Neg.	Neg.	N/A	0.6	Neg.	N/A	2.8	6.8	N/A	N/A	145.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.02 UAH	+0.0	-5.0	-7.2	-44.7	0.04	8.5	7.5	4.0	0.3	0.5	1.1	0.37	271	Neg.	N/A	N/A	Neg.	N/A	N/A	0.0	N/A	N/A	0.0	0.0
Azovstal	AZST UK	Kiev, UX	0.38 UAH	+0.0	-4.6	-5.8	-50.2	0.02	67.4	8.3	4.1	2.8	0.2	4.0	0.07	1,421	1.7	1.3	N/A	0.0	N/A	N/A	0.0	0.0	N/A	0.1	0.0
Ferrexpo PLC	FXPO LN	London	21.00 GBp	+1.2	-6.7	-2.3	-60.4	0.31	179.7	836.3	22.4	40.2	90.9	238.5	0.68	146	1.0	1.6	11.8	2.6	3.1	5.0	0.6	0.8	0.9	0.4	61.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.23 UAH	+0.0	-30.3	+0.0	-17.9	0.01	2.7	3.3	9.0	0.2	0.0	2.5	2.44	41	Neg.	Neg.	N/A	Neg.	N/A	N/A	0.0	0.0	N/A	0.0	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	14.00 UAH	+0.0	-14.7	+0.0	-34.8	0.60	6.3	-8.4	9.4	0.6	0.0	0.5	0.13	797	Neg.	Neg.	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.2	0.0
<b>FOOD AND AGRIBUSINESS</b>																											
AgroGeneration	ALAGR FP	EN Paris	0.41 EUR	+0.0	+0.0	+2.5	+7.9	0.45	44.0	98.7	34.0	15.0	4.9	48.5	0.12	835	Neg.	Neg.	2.7	4.8	4.9	3.3	1.4	1.5	1.2	0.6	83.5
Agroliga	AGL PW	Warsaw	11.50 PLN	+0.0	-9.4	+1.1	+14.4	2.87	4.4	5.6	16.7	0.7	0.8	1.3	0.15	672	1.5	N/A	N/A	1.6	N/A	N/A	0.3	N/A	N/A	0.4	10.7
Agroton	AGT PW	Warsaw	0.91 PLN	-3.2	-10.8	-9.9	-37.2	0.23	4.9	31.6	26.2	1.3	8.9	9.3	0.39	256	Neg.	N/A	N/A	1.4	N/A	N/A	0.5	N/A	N/A	0.1	33.4
Astarta Holdin...	AST PW	Warsaw	34.30 PLN	-1.1	+5.5	-0.6	+29.9	8.57	214.3	435.7	31.0	66.5	131.8	24.7	0.03	3,767	Neg.	12.8	3.4	3.7	3.4	3.7	1.1	1.3	1.1	0.9	49.6
Avangard	AVGR LI	London Intl	1.30 USD	-5.8	-18.2	+4.0	-39.5	1.30	83.0	373.7	21.7	18.0	0.8	5.6	0.01	13,175	Neg.	Neg.	Neg.	2.9	7.8	3.6	0.9	1.4	1.1	0.3	33.1
IMC	IMC PW	Warsaw	5.70 PLN	-3.4	-8.5	-4.5	-10.9	1.42	44.6	150.1	23.9	10.6	2.4	3.6	0.03	2,904	Neg.	3.3	2.2	2.6	2.8	3.7	1.1	1.0	1.0	1.6	69.8
Kernel Holding...	KER PW	Warsaw	46.79 PLN	+1.1	+8.8	-2.7	+48.5	11.69	931.7	1,313.5	58.8	547.6	384.2	2,210.5	0.46	215	8.7	4.8	4.7	3.3	3.9	3.8	0.6	0.6	0.5	1.0	31.6
KSG Agro	KSG PW	Warsaw	0.94 PLN	+4.4	-3.1	+1.1	-23.6	0.23	3.5	66.8	34.4	1.2	0.7	6.5	0.18	553	Neg.	N/A	N/A	6.7	N/A	N/A	2.1	N/A	N/A	N/A	67.4
MHP	MHPC LI	London Intl	8.50 USD	+0.0	-8.2	-8.6	-6.7	8.50	898.2	2,070.8	22.3	200.5	300.6	357.3	0.33	305	Neg.	4.1	3.5	3.7	4.2	4.4	1.5	1.6	1.6	1.3	53.0
Milkiland	MLK PW	Warsaw	1.54 PLN	+6.9	+2.7	+8.5	-8.9	0.38	12.0	127.0	20.0	2.4	10.2	37.2	0.33	301	Neg.	Neg.	Neg.	9.2	25.3	11.0	0.4	0.6	0.5	0.1	42.5
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Frankfurt	0.03 EUR	+0.0	-63.5	-55.7	-56.9	0.03	1.7	94.6	13.1	0.2	0.0	0.7	1.41	71	Neg.	N/A	N/A	Neg.	N/A	N/A	3.6	N/A	N/A	0.0	41.9
<b>FINANCIAL SERVICES</b>																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.07 UAH	+0.0	-2.1	-5.1	-25.3	0.00	91.2	N/A	3.8	3.5	2.5	6.4	0.18	556	N/A	5.0	5.0	N/A	N/A	N/A	N/A	N/A	N/A	0.6	N/A
Ukrsofsbank	USCB UK	Kiev, UX	0.10 UAH	+0.0	+7.0	-2.5	-26.0	0.00	101.1	N/A	4.5	4.5	0.1	1.1	0.04	2,224	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.4	38.2

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

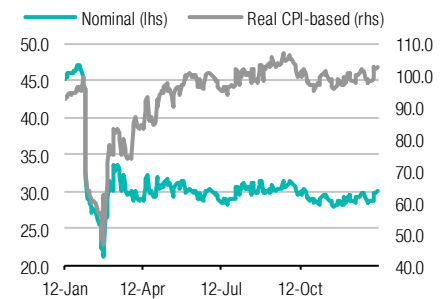
### UAH rises in trade-weighted terms

The hryvnia ended yesterday at 23.4/USD, down 0.21% from the previous business day. Ukraine sovereign eurobond bonds held quite steady across the curve and rose again as commodities trended lower (Brent oil lost 7.52% to US\$29.6/bbl) and the US dollar index increased 0.2% to 98.725 points. Oil-dependent currencies RUB and KZT respectively fell 1.9% and 1.7%. In this environment, the hryvnia's trade-weighted index jumped 0.6%. If this trend continues, the hryvnia should decline to counterweight the trade-weighted appreciation.

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### ICU's UAH trade-weighted indices

(Last 12-month history to 12 Jan 2016)



Source: Investment Capital Ukraine LLC.

### FX market indicators (as of 11 Jan 2016)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	23.4000	+0.21	-3.06	-1.68	-2.61
NBU avg	23.5044	+0.01	-1.20	-1.49	-1.20
Ttl vlm <sup>1</sup>	N/A	N/A	N/A	N/A	N/A
\$ volume <sup>2</sup>	N/A	N/A	N/A	N/A	N/A
NDF 3M	24.7940	-8.53	-8.60	-7.49	+0.00
NDF 6M	26.9000	-2.56	-2.64	-1.47	-2.28
NDF 1Y	27.6500	-2.49	-2.57	-1.43	+8.45
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	29.933	+0.57	+4.62	+4.66	+4.67
UAH real CPI	102.406	+0.57	+4.62	+4.66	+4.67
UAH real PPI	134.645	+0.57	+4.62	+4.66	+4.67
USD nom'l	98.725	+0.19	-0.15	+1.19	+0.10
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	76.1895	+1.93	+4.45	+8.25	+5.06
EUR/USD	1.0859	-0.58	+0.26	-1.16	-0.03
USD/CNY	6.5711	-0.36	+0.58	+1.80	+1.19
USD/PLN	4.0073	+0.26	+0.93	+0.83	+2.15
USD/TRY	3.0376	+0.58	+2.47	+1.84	+4.13
USD/BYR	19,107.00	+1.95	+2.32	+4.75	+2.58
USD/KZT	358.0000	+1.66	+5.29	+13.65	+5.11
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	117.7600	+0.43	-1.41	-2.69	-2.05
GBP/USD	1.4543	+0.18	-1.18	-4.40	-1.31
USD/CHF	1.0015	+0.67	-0.06	+1.92	-0.06
AUD/USD	0.6995	+0.60	-2.73	-2.70	-3.99
USD/CAD	1.4216	+0.31	+1.88	+3.34	+2.72
USD/BRL	4.0536	+0.72	+0.34	+4.67	+2.34
USD/KRW	1,209.73	+0.99	+1.86	+2.56	+2.95
<b>COMMODITIES</b>					
Gold(\$/oz)	1,094.20	-0.89	+1.83	+1.81	+3.09
WTI crude <sup>3</sup>	31.41	-5.28	-14.55	-11.82	-15.20
Brent crd <sup>3</sup>	29.64	-7.52	-18.19	-20.60	-17.09
Urals crd <sup>3</sup>	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB <sup>4</sup>	164.24	-2.58	-5.88	-6.07	-6.76

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.

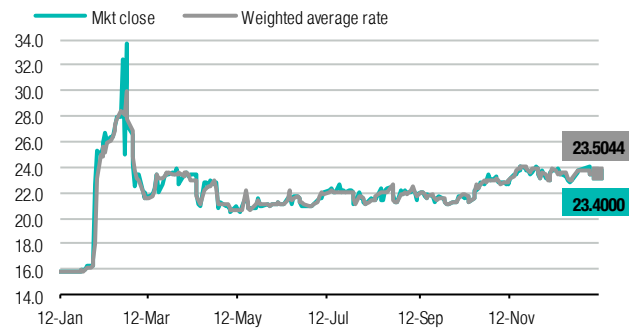
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

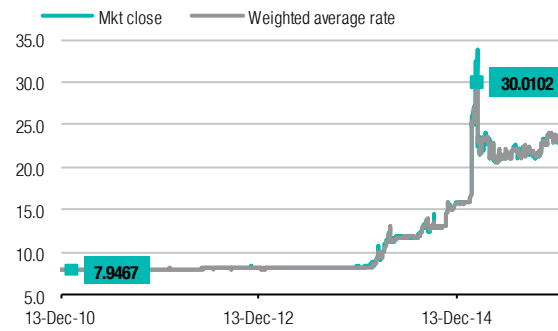
Section on FX market is continued on next page.

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)

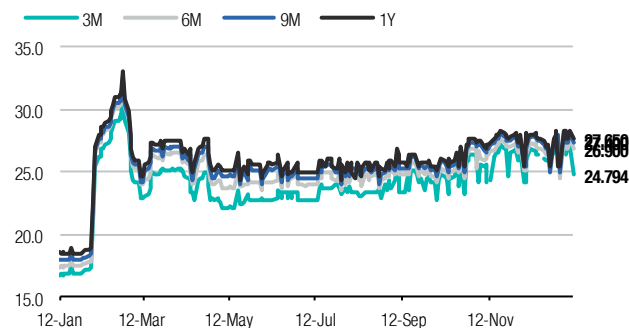


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

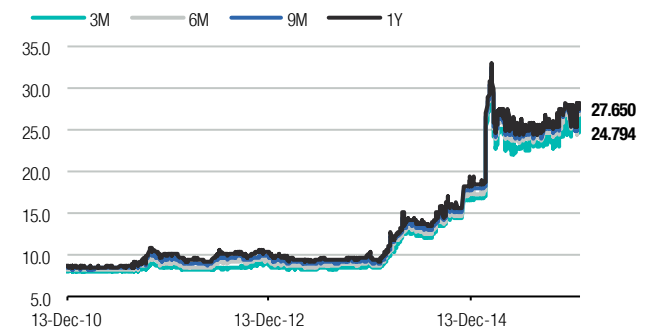


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

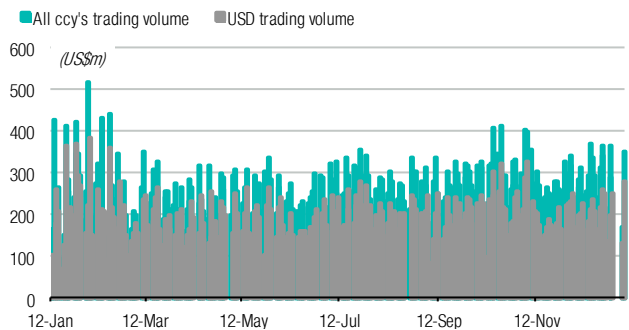


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

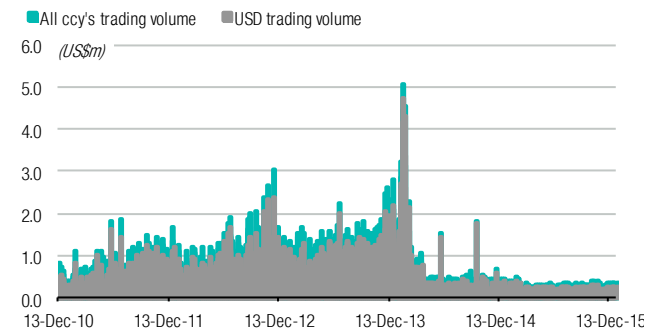


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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)

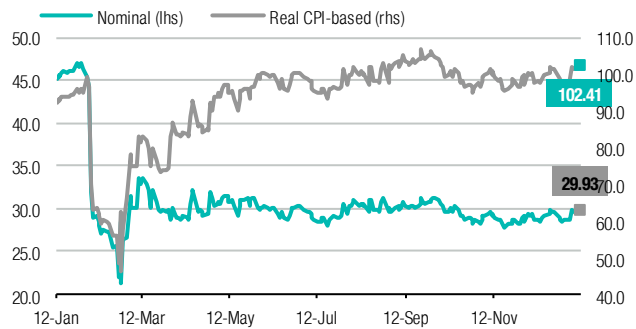


Note: \* 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

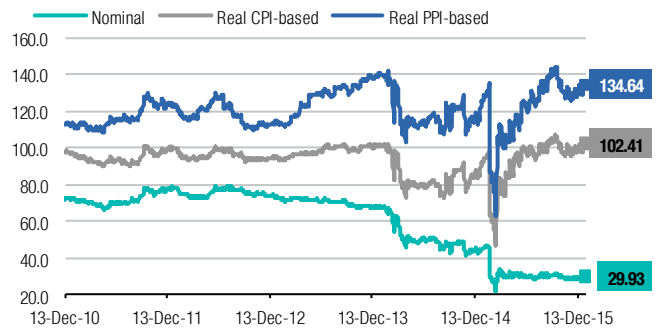
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



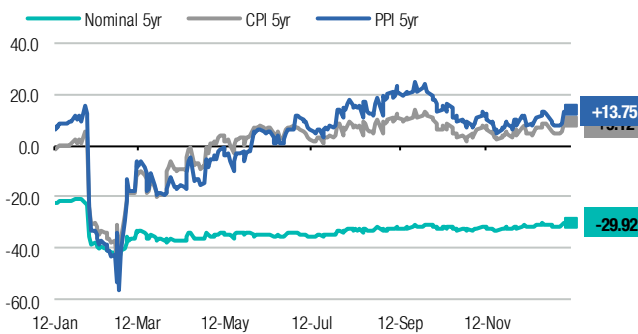
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

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

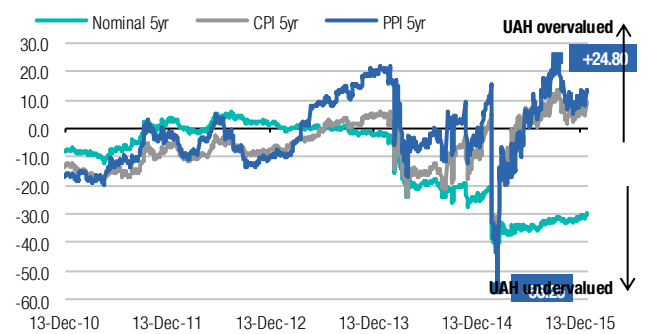


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

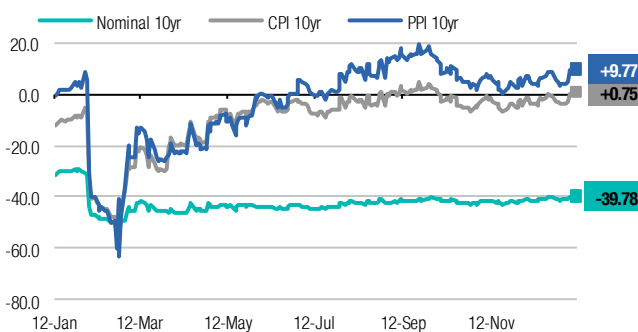


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

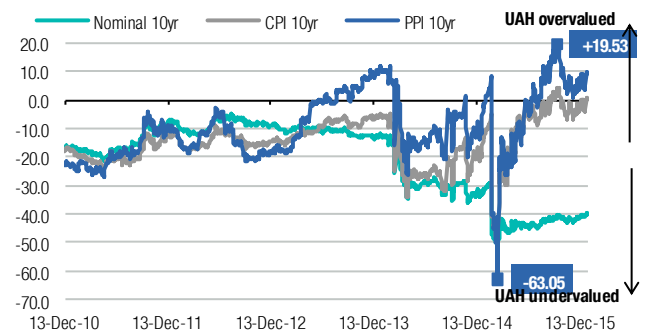


Note: the boxes indicate the high and low values of CPI-based TWI.  
Source: Investment Capital Ukraine LLC.

**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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This research publication has been prepared by the analyst(s), whose name(s) appear on the front page of this publication. The analyst(s) hereby certifies that the views expressed within this publication accurately reflect her/his own views about the subject financial instruments or issuers and no part of her/his compensation was, is, or will be directly or indirectly related to the inclusion of specific recommendations or views within this research publication.

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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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