



Focus  
**Ukraine**

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

Research team  
**Alexander Valchyshen  
Taras Kotovych  
Mykhaylo Demkiv**

# Daily Insight

## Oschad and Ukreximbank to be recapitalized

### Contents

<b>Bonds: News &amp; Comments</b>	<b>2</b>
Oschad and Ukreximbank to be recapitalized in 2016.....	2
Yield curve extends to 3-year maturity .....	2
Liquidity down slightly.....	3
Chart page: Local bond market & Eurobond markets.....	4
<b>FX: News &amp; Comments</b>	<b>6</b>
Chart page #1: Foreign-exchange market.....	7
Chart page #2: ICU's UAH trade-weighted indices.....	8

THURSDAY, 28 JANUARY 2016

### UX Index (3 months to 28 Jan 2016)



Source: UX.

### Key market indicators (as of 27 Jan 2016)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	24.9500	+0.20	+3.84
USD/UAH (1Y NDF)	29.2000	+0.17	+14.53
EUR/USD	1.0893	+0.21	+0.29
USD/RUB	78.0770	-0.95	+7.66
KievPRIME O/N (%)	18.88	+15bp	-18bp
KievPRIME 1M (%)	22.19	+0bp	-6bp
<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	N/A		
<b>EQUITIES</b>			
<b>Stock market indices</b>			
UX (Ukraine)	638.62	-2.12	-6.89
MSCI World	367.05	-0.16	-8.09
MSCI EM	715.98	+1.08	-9.84
RTS (Russia)	704.87	+3.19	-6.89
WIG-20 (Poland)	1,728.84	+0.90	-7.01
S&P 500 (USA)	1,882.95	-1.09	-7.88

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

### Oschad and Ukreximbank to be recapitalized in 2016

The share capital of Oschadbank will be increased by UAH4.96bn (16.6%) and that of Ukreximabank by UAH9.32bn (43.0%), Ukraine's Prime Minister announced. Although both banks are currently above the minimum required level of regulatory capital (10%), significant provisioning expenses are necessitated in 2016 following the deterioration of their loan portfolios. We expect the banks will swap new shares for new government bonds, thus increasing the share of investments in securities for Oschad and Ukrexim further to 36% and 47%, respectively.

FX loans most likely are the most problematic assets requiring significant provisioning. Because of this, the banks will need to balance their net FX position as they will have to write-off several hundred million dollars of assets from their balance sheets. Therefore, both banks will highly prefer USD-indexed bonds, similar to those Oschad obtained in December 2014.

Given the magnitude of problematic debts (NPLs comprising 33.9% of total loans at Ukreximbank and 39.8% at Oschadbank), we expect another capital injection, yet of a smaller amount, in 2017.

**Mykhaylo Demkiv, Kiev, +38044 2200120 ext.723**

### Yield curve extends to 3-year maturity

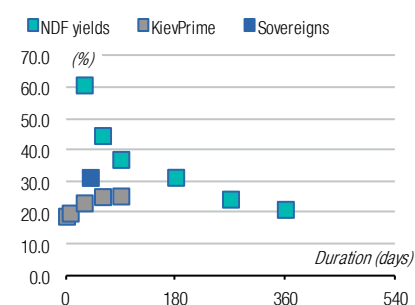
The MoF extended its primary auction yield curve to a 3-year maturity at the anticipated level of 20%, as it accepted only one bid for UAH25m at yesterday's auction from a total UAH200m of demand in three bids at interest rates between 20.0% and 20.8%.

**Investment implications: The MoF traditionally accepted the bid with the lowest interest rate as it built its yield curve for the primary market. The MoF likely had this as the main goal for 1Q16 and most likely will continue to accept small bids at the auctions to continue to expand the yield curve. Also, the MoF will try to complete the yield curve by selling 6-month bonds in an effort to keep it from becoming U-shaped at the short-term end. At the same time, next week demand for local currency bonds could be low due to the offering of FX-denominated bonds. This could be the last offering of such a wide range of maturities to investors (see our Daily dated 18 January 2016).**

**Taras Kotovych, Kiev, +38044 2200120 ext.724**

### Yield curve of the local bond market

(as of market close on 27 Jan 2016)



Sources: Bloomberg, Investment Capital Ukraine LLC.

### Bond market indicators (as of 27 Jan 2016)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>MONEY MARKET KIEV PRIME RATES (%)</b>					
O/n	18.88	+15bp	-1bp	+2bp	-18bp
1wk	20.06	+8bp	-4bp	+0bp	+6bp
1m	22.19	+0bp	-11bp	-12bp	-6bp
2m	23.31	+12bp	+1bp	-19bp	-19bp
3m	23.44	+13bp	-6bp	-31bp	-31bp
<b>LIQUIDITY WIDE MEASUREMENT (UAHm)</b>					
CB acc's <sup>1</sup>	40,171	+1.66	-1.08	+32.84	+6.18
CDs <sup>2</sup>	78,379	-22.18	-21.30	-19.34	-29.73
Sovgns <sup>3</sup>	5,828	+0.00	-5.80	+36.18	+23.13
<b>Total</b>	<b>124,377</b>	<b>-13.44</b>	<b>-13.85</b>	<b>-2.70</b>	<b>-17.18</b>
<b>HOLDERS OF UAH SOVEREIGN BONDS (UAHm)</b>					
C.bank	389,962	+0.00	+0.00	+2.68	+2.67
Banks	94,918	+0.05	+14.42	+18.38	+16.36
Resid's <sup>4</sup>	11,084	-0.01	+1.97	-47.12	-47.21
Non-res <sup>5</sup>	22,452	+0.07	-1.08	+3.87	+0.65
<b>Total</b>	<b>518,417</b>	<b>+0.01</b>	<b>+2.36</b>	<b>+3.16</b>	<b>+2.72</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	N/A	N/A	N/A	N/A	N/A
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	+0bp	+0bp
Feb '23	11.85	+0bp	+0bp	+0bp	+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.

### Liquidity down slightly

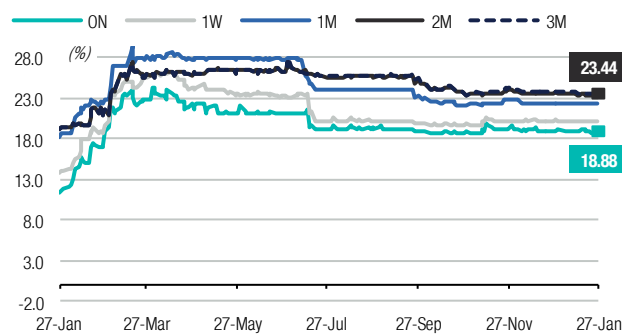
From the beginning of this week, liquidity fell a slight UAH0.65bn to UAH118.55bn yesterday, with significant reallocations of funds between banks' accounts and CDs. On Monday, total CDs outstanding increased, while yesterday funds moved to banks' accounts by a larger amount. Banks' correspondent accounts with the NBU rose UAH1.73bn to UAH40.17bn yesterday, while total CDs outstanding fell UAH2.05bn to UAH78.38bn.

***Investment implications: We could see liquidity decline through the end of this week, thus showing up in the indicators at the beginning of next week, reflecting outflows to budgets due to month-end tax payments and other payments. At the same time, the decline will be not very significant as the MoF has no need to collect a large amount of funds immediately and should instead accumulate funds from month to month, as occurred last year. As a result, liquidity could decline to about UAH110bn and should remain at this level next month, but with slight volatility.***

***Taras Kotovych, Kiev, +38044 2200120 ext.724***

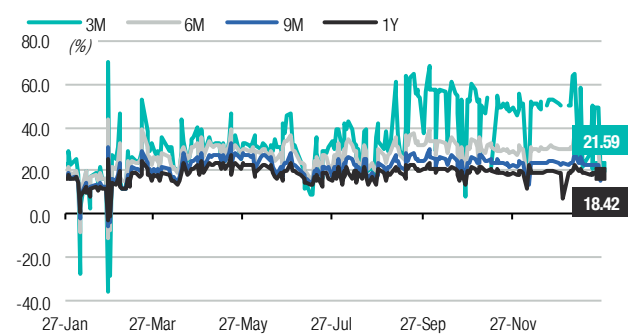
## Chart page: Local bond market & Eurobond markets

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



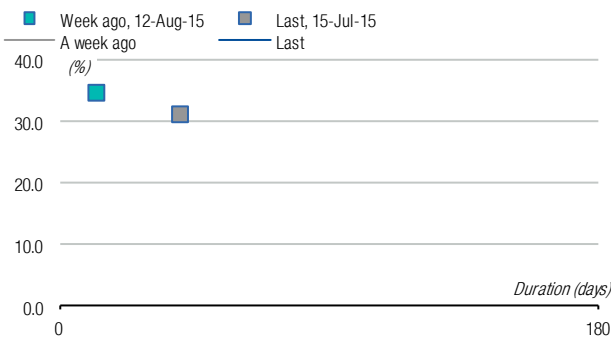
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



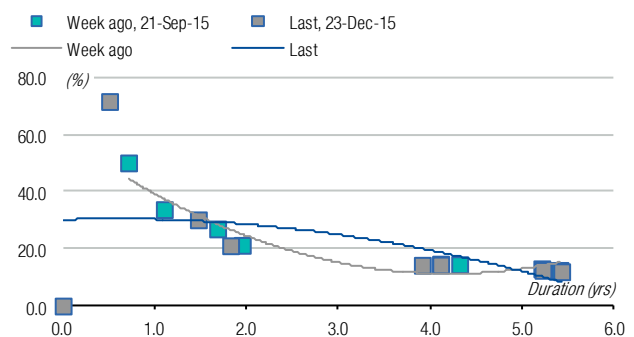
Sources: Bloomberg, Investment Capital Ukraine LLC.

**Chart 3. UAH sovereign yield curve (%) as of 27 Jan 2016**



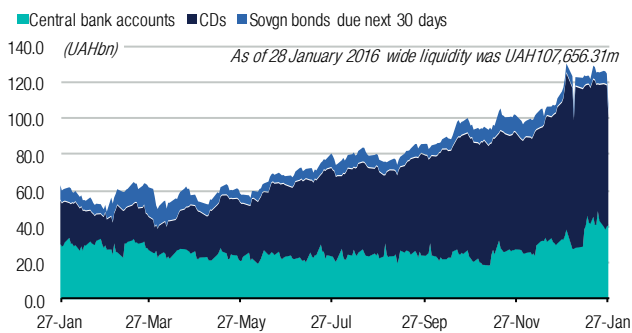
Sources: Bloomberg, Investment Capital Ukraine LLC.

**Chart 4. USD sovereign yield curve (%) as of 27 Jan 2016**



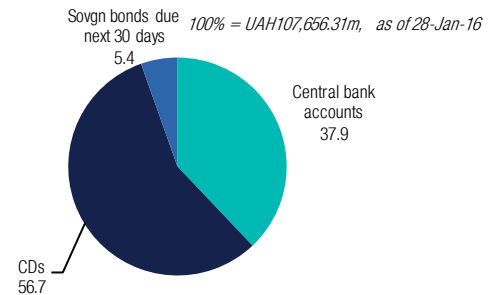
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



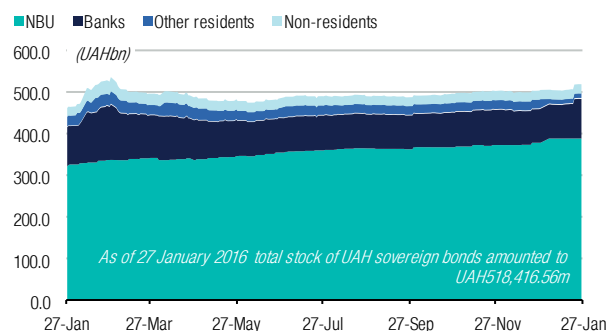
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

**Chart 6. Breakdown of liquidity pool (%) as of 27 Jan 2016**



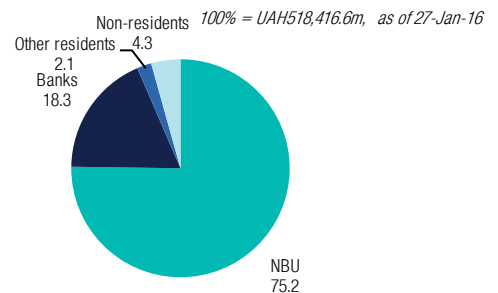
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

**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 27 Jan 2016**



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

Table 1. Ukrainian stocks (closing prices as of 27-Jan-2016)

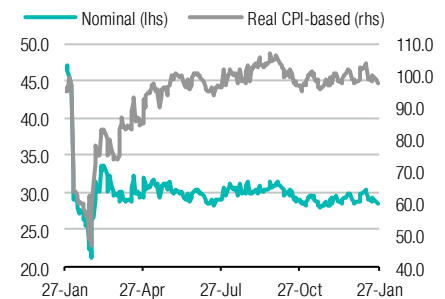
Company	Bloomberg Ticker	Listing	Share price performance (% change)				Valuation (US\$)			Free float (FF) & Liquidity					P/E			EV/EBITDA			EV/Sales			Ratios			
			Last price	Daily	MoM	YTD	YoY	Last price	Market cap (m)	EV (m)	FF (%)	FF mkt cap (US\$m)	Last day turnover (US\$ 000)	3M avg. turnover (US\$ 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	+0.0	+9.2	+9.2	-13.4	0.13	29.3	-19.9	40.2	11.8	0.0	16.9	0.35	282	Neg.	N/A	N/A	2.9	N/A	N/A	Neg.	N/A	N/A	0.4	15.3
Centrenerg	CEEN UK	Kiev, UX	4.37 UAH	+0.0	-4.9	-4.2	-39.7	0.18	64.8	53.7	21.7	14.1	6.4	8.8	0.04	2,526	22.9	Neg.	4.9	0.2	Neg.	1.6	0.2	0.2	0.1	0.7	4.2
Donbasenergo	DOEN UK	Kiev, UX	14.77 UAH	+0.0	+1.7	-6.3	-52.8	0.59	14.0	24.0	14.2	2.0	0.5	1.9	0.07	1,421	3.5	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	26.25 GBp	+0.0	-3.7	-3.7	+105.9	0.37	64.4	75.0	47.2	30.4	0.0	11.8	0.02	4,071	Neg.	Neg.	Neg.	Neg.	3.8	3.0	0.5	0.7	1.1	0.2	9.9
Regal Petroleum	RPT LN	London	2.91 GBp	+0.0	-29.1	-22.5	-28.5	0.04	13.3	-20.1	80.9	10.8	2.2	2.6	0.01	12,998	2.3	N/A	N/A	Neg.	N/A	N/A	Neg.	Neg.	N/A	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	70.10 UAH	+0.0	-4.0	-16.5	-48.1	2.82	36.0	67.3	5.0	1.8	0.0	0.9	0.04	2,228	Neg.	N/A	N/A	0.1	N/A	N/A	0.1	N/A	N/A	0.4	11.6
<b>METALLURGY</b>																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	+0.0	+16.0	+11.5	-3.2	0.00	12.8	1,661.9	3.9	0.5	0.1	0.2	0.03	3,235	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	1.14 UAH	+0.0	+8.4	+3.4	-5.7	0.05	8.9	8.0	4.0	0.4	0.3	1.3	0.36	274	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	0.36 UAH	+0.0	-2.9	-9.5	-48.8	0.01	61.1	5.3	4.1	2.5	1.5	3.5	0.04	2,245	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	17.00 GBp	-2.9	-15.0	-20.9	-67.1	0.24	142.9	799.5	22.4	32.0	0.0	198.1	0.50	200	0.8	1.2	19.6	2.5	2.9	5.3	0.6	0.8	0.9	0.3	61.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.24 UAH	+0.0	+3.5	+3.5	-4.8	0.01	2.6	3.2	9.0	0.2	0.0	2.3	0.21	483	Neg.	Neg.	N/A	Neg.	N/A	N/A	0.0	0.0	N/A	0.1	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	12.80 UAH	+0.0	-5.3	-8.6	-32.6	0.51	5.4	-8.4	9.4	0.5	0.4	0.4	0.03	3,022	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	0.37 EUR	+0.0	-7.5	-7.5	+12.1	0.40	39.6	94.2	34.0	13.5	0.0	22.9	0.09	1,071	Neg.	Neg.	2.5	4.6	4.7	3.1	1.3	1.4	1.2	0.6	83.5
Agroliga	AGL PW	Warsaw	11.15 PLN	+0.0	+2.3	-2.0	+16.8	2.72	4.2	5.4	16.7	0.7	0.0	1.2	0.18	551	1.4	N/A	N/A	1.5	N/A	N/A	0.3	N/A	N/A	0.4	10.7
Agroton	AGT PW	Warsaw	0.81 PLN	+0.0	-18.2	-19.8	-37.7	0.20	4.3	31.0	26.2	1.1	0.7	4.5	0.48	210	Neg.	N/A	N/A	1.3	N/A	N/A	0.5	N/A	N/A	0.1	33.4
Astarta Holdin...	AST PW	Warsaw	29.15 PLN	+0.0	-11.6	-15.5	+19.6	7.12	177.9	398.9	31.0	55.2	10.2	17.3	0.03	3,401	Neg.	10.8	2.9	3.3	3.1	3.0	1.0	1.2	1.0	0.8	49.6
Avangard	AVGR LI	London Intl	1.20 USD	+0.0	-4.0	-4.0	-34.4	1.20	76.6	367.4	21.7	16.6	0.0	3.6	0.01	14,544	Neg.	Neg.	Neg.	2.8	7.7	3.6	0.9	1.3	1.1	0.3	33.1
IMC	IMC PW	Warsaw	5.86 PLN	+0.0	-0.3	-1.8	+1.0	1.43	44.8	150.3	23.9	10.7	0.0	3.2	0.02	5,665	Neg.	3.4	2.3	2.6	2.8	3.7	1.1	1.0	1.0	1.7	69.8
Kernel Holding...	KER PW	Warsaw	42.86 PLN	-0.7	-8.4	-10.9	+39.6	10.46	833.8	1,215.4	58.8	490.0	0.0	2,014.0	0.38	263	7.8	4.3	4.2	3.1	3.6	3.6	0.5	0.5	0.5	0.9	32.0
KSG Agro	KSG PW	Warsaw	0.88 PLN	+0.0	-3.3	-5.4	-16.2	0.21	3.2	66.5	34.4	1.1	0.4	3.0	0.11	920	Neg.	N/A	N/A	6.6	N/A	N/A	2.1	N/A	N/A	N/A	67.4
MHP	MHPC LI	London Intl	8.00 USD	+0.0	-8.0	-14.0	-13.3	8.00	845.3	2,018.0	22.3	188.7	171.4	352.9	0.15	666	Neg.	4.0	3.3	3.6	4.2	4.3	1.5	1.6	1.6	1.2	53.0
Milkiland	MLK PW	Warsaw	1.15 PLN	-2.5	-21.8	-19.0	-48.9	0.28	8.8	123.6	20.0	1.8	0.3	13.1	0.29	342	Neg.	Neg.	Neg.	9.0	24.7	10.3	0.4	0.6	0.5	0.1	42.5
Ovostar Union	OVO PW	Warsaw	93.00 PLN	+0.0	+6.9	+2.8	+27.4	22.70	136.2	145.8	25.0	34.1	6.8	24.7	0.01	17,888	5.4	6.0	6.4	5.0	5.7	5.3	1.9	1.9	1.4	1.6	9.4
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Frankfurt	0.06 EUR	+0.0	-26.8	-14.3	-33.3	0.07	3.4	96.3	13.1	0.4	0.0	1.3	0.18	566	Neg.	N/A	N/A	Neg.	N/A	N/A	3.7	N/A	N/A	0.1	41.9
<b>FINANCIAL SERVICES</b>																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.07 UAH	+0.0	-5.0	-7.3	-21.2	0.00	84.0	N/A	3.8	3.2	3.9	5.2	0.07	1,385	N/A	Neg.	3.7	N/A	N/A	N/A	N/A	N/A	N/A	0.5	N/A
Ukrsofsbank	USCB UK	Kiev, UX	0.08 UAH	+0.0	-23.9	-19.1	-27.4	0.00	79.2	N/A	4.5	3.5	0.2	1.2	0.05	2,147	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	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

## ICU's UAH trade-weighted indices

(Last 12-month history to 28 Jan 2016)



Source: Investment Capital Ukraine LLC.

## FX market indicators (as of 27 Jan 2016)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	24.9500	+0.20	+2.04	+8.98	+3.84
NBU avg	24.8705	+0.09	+0.85	+7.49	+4.54
Ttl vlm <sup>1</sup>	244.72	-3.33	-28.41	+12.72	-32.63
\$ volume <sup>2</sup>	169.99	+4.95	-34.84	+23.39	-32.29
NDF 3M	27.9500	+6.65	+1.82	+6.88	+0.00
NDF 6M	28.4500	+5.04	+1.79	+6.75	+3.35
NDF 1Y	29.2000	+0.17	+1.74	+14.53	+14.53
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	28.430	-0.38	-2.74	-4.12	-0.58
UAH real CPI	97.263	-0.38	-2.74	-4.12	-0.58
UAH real PPI	127.884	-0.38	-2.74	-4.12	-0.58
USD nom'l	98.902	-0.46	-0.19	+1.08	+0.27
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	78.0770	-0.95	-4.12	+10.94	+7.66
EUR/USD	1.0893	+0.21	+0.03	-0.61	+0.29
USD/CNY	6.5780	-0.07	-0.01	+1.58	+1.30
USD/PLN	4.1109	+0.41	-0.36	+6.50	+4.79
USD/TRY	3.0015	-0.23	-1.33	+3.06	+2.89
USD/BYR	21,313.00	+1.01	+4.12	+16.03	+14.42
USD/KZT	376.7300	-1.04	-0.01	+14.59	+10.61
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	118.6800	+0.22	+1.49	-1.37	-1.28
GBP/USD	1.4234	-0.81	+0.30	-4.55	-3.41
USD/CHF	1.0151	-0.17	+1.08	+2.72	+1.30
AUD/USD	0.7027	+0.31	+1.72	-3.48	-3.55
USD/CAD	1.4096	-0.16	-2.81	+1.97	+1.86
USD/BRL	4.1099	+1.44	+0.30	+4.20	+3.76
USD/KRW	1,202.25	-0.14	-0.95	+2.76	+2.31
<b>COMMODITIES</b>					
Gold(\$/oz)	1,124.95	+0.45	+2.18	+4.56	+5.99
WTI crude <sup>3</sup>	32.30	+2.70	+21.66	+0.00	-12.80
Brent crd <sup>3</sup>	31.70	+5.84	+20.12	-13.13	-11.33
Urals crd <sup>3</sup>	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB <sup>4</sup>	164.18	+0.92	+5.03	-6.77	-6.79

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>).

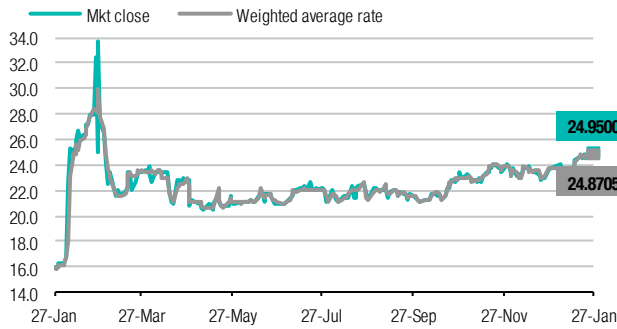
Section on FX market is continued on next page.

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.

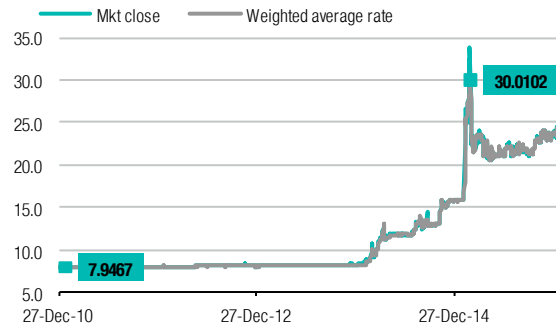
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

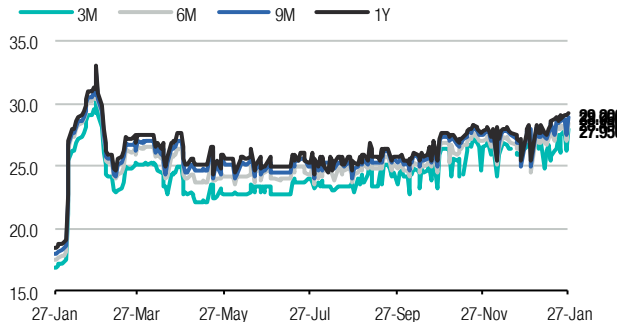


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

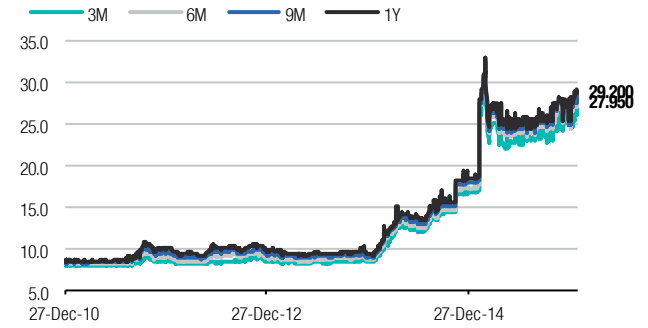


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

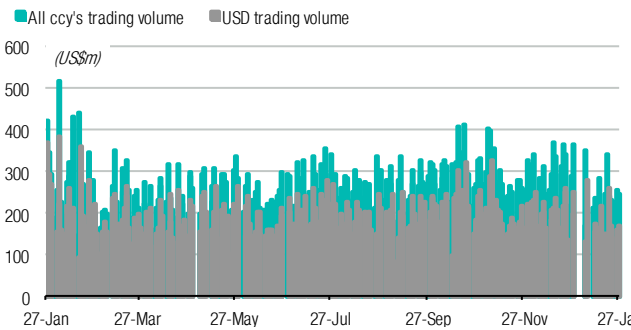


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

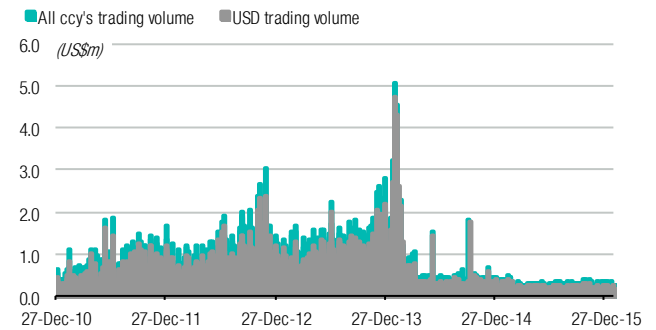


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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)

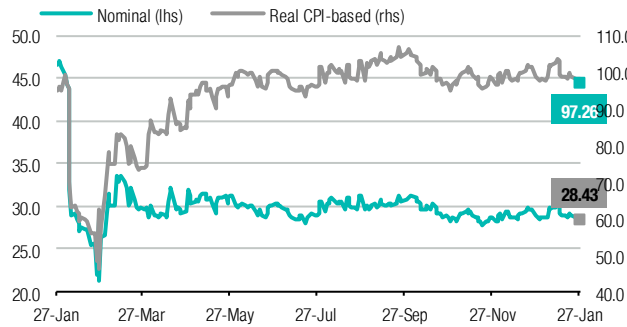


Note: \* 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

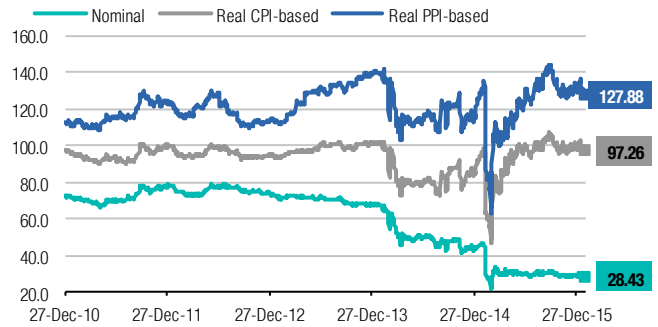
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



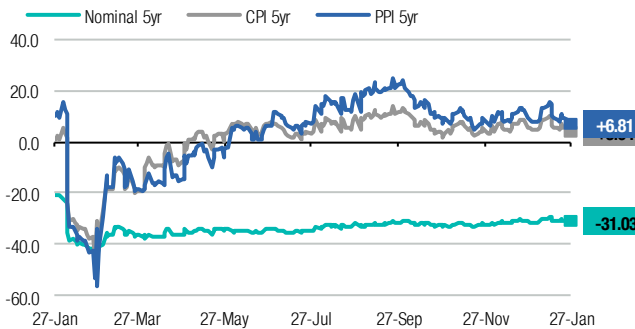
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

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

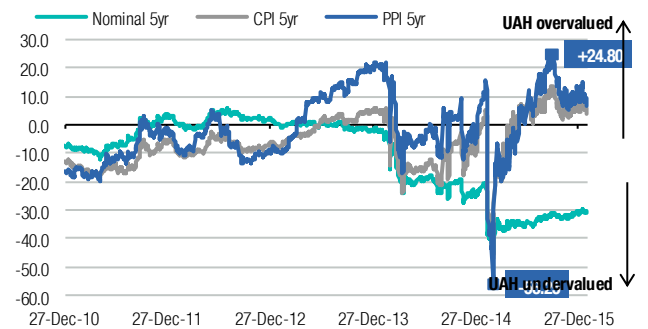


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

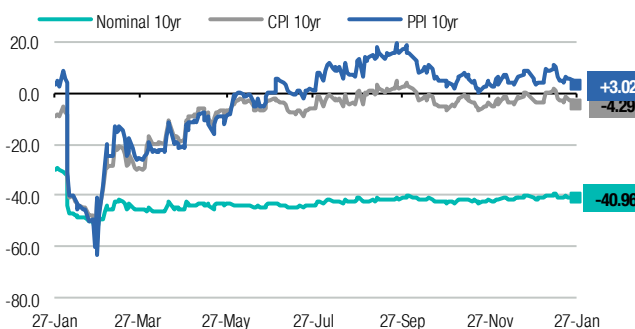


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

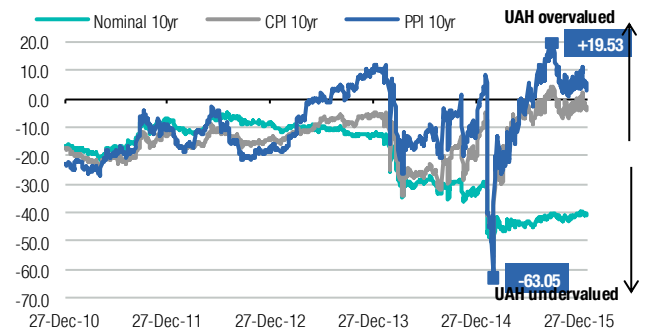


Note: the boxes indicate the high and low values of CPI-based TWI.  
Source: Investment Capital Ukraine LLC.

**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.



This page is intentionally left blank

## Disclosures

### ANALYST CERTIFICATION

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.

### EQUITY RATING DEFINITIONS

**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



11th floor, LEONARDO Business Centre  
19-21 Bogdan Khmelnytsky Street  
Kiev, 01030 Ukraine  
Phone/Fax +38 044 2200120

**WEB** [www.icu.ua](http://www.icu.ua)



@ICU\_UA

## CORPORATE FINANCE

**Makar Paseniuk, CFA**, Managing Director  
[makar.paseniuk@icu.ua](mailto:makar.paseniuk@icu.ua)

**Ivan Shvydanenko**, Director  
[ivan.shvydanenko@icu.ua](mailto:ivan.shvydanenko@icu.ua)

**Roman Nikitov, ACCA** Director  
[roman.nikitov@icu.ua](mailto:roman.nikitov@icu.ua)

**Yuriy Kamarytskyi**, Vice President  
[yuriy.kamarytskyi@icu.ua](mailto:yuriy.kamarytskyi@icu.ua)

**Ruslan Kilmukhametov**, Director  
[ruslan.kilmukhametov@icu.ua](mailto:ruslan.kilmukhametov@icu.ua)

**Ruslan Patlavsky**, Director  
[ruslan.patlavsky@icu.ua](mailto:ruslan.patlavsky@icu.ua)

## STRATEGY AND CORPORATE DEVELOPMENT

**Vlad Sinani**, Director  
[vlad.sinani@icu.ua](mailto:vlad.sinani@icu.ua)

## SALES AND TRADING

**Konstantin Stetsenko**   
Managing Director  
[konstantin.stetsenko@icu.ua](mailto:konstantin.stetsenko@icu.ua)

**Liliya Kubytovych**   
Asset Management Product Sales  
[liliya.kubytovych@icu.ua](mailto:liliya.kubytovych@icu.ua)

**Sergiy Byelyayev**  
Fixed-Income Trading  
[sergiy.byelyayev@icu.ua](mailto:sergiy.byelyayev@icu.ua)

**Yevgeniya Gryshchenko**  
Fixed-Income Sales  
[yevgeniya.gryshchenko@icu.ua](mailto:yevgeniya.gryshchenko@icu.ua)

**Vitaliy Sivach**   
Fixed-Income & FX Trading  
[vitaliy.sivach@icu.ua](mailto:vitaliy.sivach@icu.ua)

## RESEARCH DEPARTMENT

**Alexander Valchyshen**   
Head of Research  
[alexander.valchyshen@icu.ua](mailto:alexander.valchyshen@icu.ua)

**Taras Kotovych**   
Senior financial analyst (Sovereign debt)  
[taras.kotovych@icu.ua](mailto:taras.kotovych@icu.ua)

**Alexander Martynenko**   
Head of corporate research  
[alexander.martynenko@icu.ua](mailto:alexander.martynenko@icu.ua)

**Mykhaylo Demkiv**   
Financial analyst (Banks)  
[mykhaylo.demkiv@icu.ua](mailto:mykhaylo.demkiv@icu.ua)

**Bogdan Vorotilin**   
Financial analyst (Food & Agribusiness)  
[bogdan.vorotilin@icu.ua](mailto:bogdan.vorotilin@icu.ua)

**Lee Daniels, Rolfe Haas**  
Editors

Investment Capital Ukraine LLC is regulated by Securities and Stock Market State Commission of Ukraine (license numbers: dealer activity AE 263019, broker activity AE 263018, underwriting activity AE 263020 dated 11 April 2013).

## DISCLAIMER

This research publication has been prepared by Investment Capital Ukraine LLC solely for information purposes for its clients. It does not constitute an investment advice or an offer or solicitation for the purchase or sale of any financial instrument. While reasonable care has been taken to ensure that the information contained herein is not untrue or misleading at the time of publication, Investment Capital Ukraine makes no representation that it is accurate or complete. The information contained herein is subject to change without notice. Copyright and database rights protection exists in this report and it may not be reproduced, distributed or published by any person for any purpose without the prior express consent of Investment Capital Ukraine LLC. All rights are reserved. Any investments referred to herein may involve significant risk, are not necessarily available in all jurisdictions, may be illiquid and may not be suitable for all investors. The value of, or income from, any investments referred to herein may fluctuate and/or be affected by changes in exchange rates. Past performance is not indicative of future results. Investors should make their own investigations and investment decisions without relying on this report. Only investors with sufficient knowledge and experience in financial matters to evaluate the merits and risks should consider an investment in any issuer or market discussed herein and other persons should not take any action on the basis of this report.



**Additional information is available upon request.**