



Focus
Ukraine

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

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Daily Insight

Deal reached on Ukrasotsbank

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WEDNESDAY, 13 JANUARY 2016

UX Index (3 months to 13 Jan 2016)



Source: UX.

Key market indicators (as of 12 Jan 2016)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	23.2250	-0.75	-3.34
USD/UAH (1Y NDF)	27.4750	-0.63	+7.76
EUR/USD	1.0858	-0.01	-0.04
USD/RUB	76.9641	+1.02	+6.13
KievPRIME O/N (%)	18.89	+10bp	-17bp
KievPRIME 1M (%)	22.30	+0bp	+5bp
SOVEREIGN EUROBONDS: yields and spreads			
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		
EQUITIES			
Stock market indices			
UX (Ukraine)	661.87	-0.04	-3.50
MSCI World	373.98	+0.24	-6.36
MSCI EM	723.21	-0.02	-8.93
RTS (Russia)	695.32	-0.54	-8.15
WIG-20 (Poland)	1,750.51	+2.74	-5.84
S&P 500 (USA)	1,938.68	+0.78	-5.15

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

Deal reached on Ukrsotsbank

Unicredit Group will exchange nearly 100% of the shares of its Ukrainian subsidiary for 9.9% of ABH Holding, the ultimate parent company of Alfa Bank (Ukraine). This deal will finalize the long lasting attempts of the Italians to exit the local market where it has experienced significant difficulties. NPLs constitute more than 40% of the loan portfolio of Ukrsotsbank, more that 70% of which are FX-denominated.

We see this as an opportunity for Alfa Bank to focus on its successful track record of the effective collection of these bad debts. Moreover, the bank could benefit from recent and upcoming changes in legislation aimed to simplify borrowers' restitution and strengthen creditors' rights.

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MoF sells small portion of T-bills

Yesterday, the MoF sold UAH100m (par value) of zero-coupon bonds, receive UAH84.46m of funds today. The bonds were all sold at 18.50%, setting a new benchmark for the market, thus redefining the yield curve.

Investment implications: Yesterday's auction ended with accepting only one bid for UAH100m while the other eight bids for a total of UAH91.4m were rejected because of their higher interest rates. Although one auction is not representative of a comprehensive view on the primary market, it does indicate that there is small demand at rates acceptable for the MoF.

Liquidity reallocation

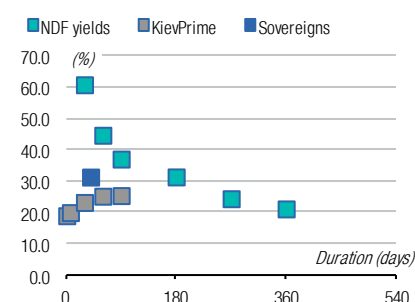
Banking sector liquidity rose UAH1.37bn to UAH117.78bn yesterday as there was a significant reallocation of funds. Banks' correspondent accounts with the NBU rose UAH9.68bn to UAH38.60bn while total CDs outstanding fell UAH8.31bn to UAH79.17bn.

Investment implications: Liquidity was reallocated from CDs to banks' accounts but could be reverted back today as has become the routine recently. The NBU most likely will not hold an auction of government bonds from its portfolio since the MoF sold an insufficient amount of new bonds yesterday which will settle today. This week will be without significant outflows and liquidity should remain at the same level.

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Yield curve of the local bond market

(as of market close on 12 Jan 2016)



Sources: Bloomberg, Investment Capital Ukraine LLC.

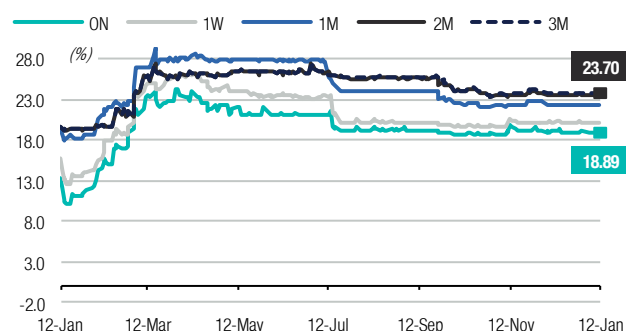
Bond market indicators (as of 12 Jan 2016)

	Last	Daily chg (%)	Weekly chg (%)	MoM chg (%)	YTD chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
O/n	18.89	+10bp	+5bp	-24bp	-17bp
1wk	20.10	+0bp	+1bp	-9bp	+10bp
1m	22.30	+0bp	+0bp	+5bp	+5bp
2m	23.50	+0bp	+0bp	+12bp	+0bp
3m	23.70	+0bp	+0bp	+7bp	-5bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's ¹	38,602	+33.46	+39.37	+30.04	+0.37
CDs ²	79,174	-9.50	+10.74	+23.75	-8.78
Sovgns ³	5,615	+0.00	+2.28	-34.13	+18.64
Total	123,392	+1.12	+17.87	+20.75	-5.08
HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	389,922	+0.00	+0.00	+4.20	+2.66
Banks	80,547	+0.03	-1.27	-0.46	-1.25
Resid's ⁴	11,024	-0.07	-1.50	-48.18	-47.50
Non-res ⁵	22,058	+0.01	-1.81	-0.44	-1.11
Total	503,551	+0.00	-0.32	+1.00	-0.23
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	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	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	+319bp	+0bp
Feb '23	11.85	+0bp	+0bp	+292bp	+0bp

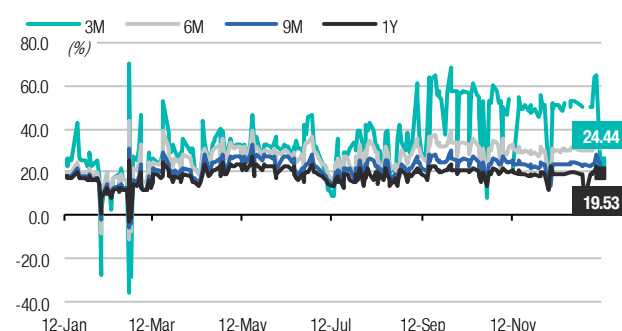
Notes: [1] banks' account balance at NBU; [2] certificates of deposits issued by NBU; [3] UAH sovereign bonds due next 30 days; [4] residents; [5] non-residents; [6] VAT bond.

Sources: Bloomberg, Investment Capital Ukraine LLC.

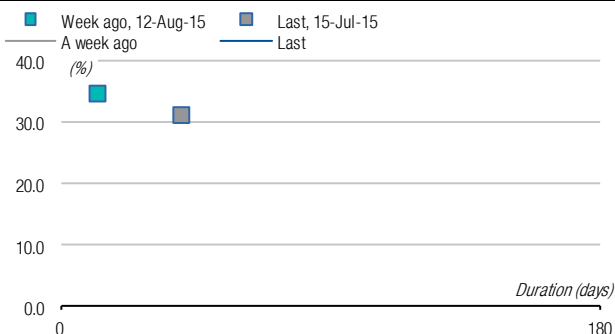
Chart page: Local bond market & Eurobond markets

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


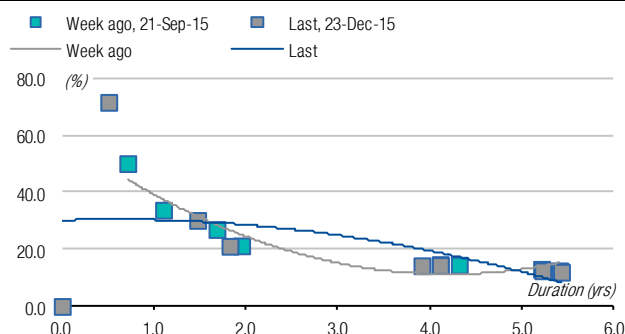
Sources: Bloomberg, Investment Capital Ukraine LLC.

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


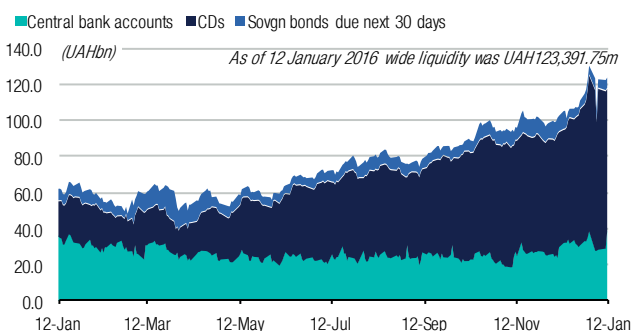
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 12 Jan 2016


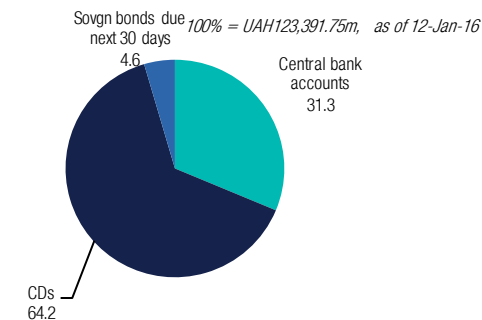
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 12 Jan 2016


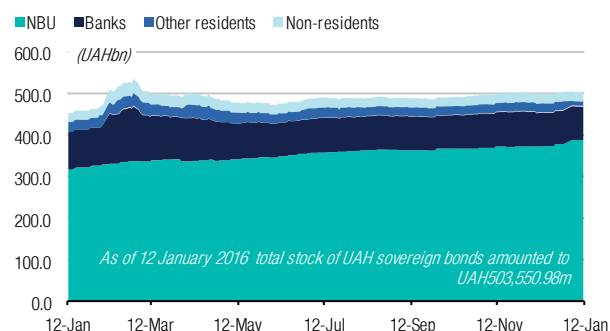
Sources: Bloomberg, Investment Capital Ukraine LLC.

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


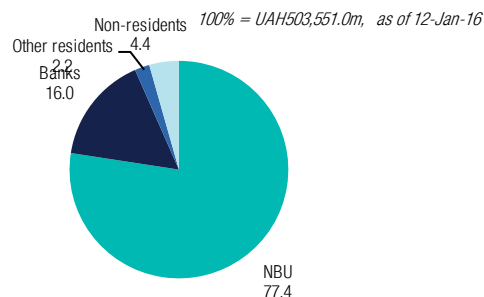
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 12 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 12 Jan 2016


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

Table 1. Ukrainian stocks (closing prices as of 12-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 (%)
ENERGY																											
Cadogan Petrol...	CAD LN	London	8.88 GBp	+0.0	+6.0	+9.2	+2.9	0.13	29.6	-19.5	40.2	11.9	7.9	10.8	0.20	504	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	4.34 UAH	+0.0	-4.4	-4.9	-43.8	0.19	69.3	57.3	21.7	15.1	28.2	9.8	0.07	1,503	22.7	Neg.	4.9	0.2	Neg.	1.6	0.2	0.2	0.1	0.7	4.2
Coal Energy	CLE PW	Warsaw	0.55 PLN	+5.8	+17.0	+3.8	-25.7	0.14	6.2	77.7	25.0	1.5	0.5	0.9	0.06	1,558	Neg.	N/A	N/A	10.7	N/A	N/A	0.7	N/A	N/A	0.2	56.9
Donbasenergo	DOEN UK	Kiev, UX	15.65 UAH	+0.0	-6.1	-0.7	-54.1	0.68	16.0	26.7	14.2	2.3	0.1	2.2	0.10	973	3.7	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	26.00 GBp	+1.0	-5.5	-4.6	+103.9	0.38	64.5	75.2	47.2	30.4	0.0	20.4	0.01	9,358	Neg.	Neg.	Neg.	2.9	3.0	0.5	0.7	1.1	0.2	9.9	
Regal Petroleum	RPT LN	London	3.31 GBp	+0.0	-12.5	-11.9	-23.5	0.05	15.3	-18.1	80.9	12.4	1.4	2.9	0.06	1,606	2.7	N/A	N/A	Neg.	N/A	N/A	Neg.	Neg.	N/A	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	73.10 UAH	+0.0	-18.8	-13.0	-50.6	3.16	40.5	74.1	5.0	2.0	3.3	1.0	0.06	1,759	Neg.	N/A	N/A	0.1	N/A	N/A	0.1	N/A	N/A	0.4	11.6
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	+0.0	-11.9	-2.0	-26.7	0.00	12.2	1,788.8	3.9	0.5	0.0	0.2	0.05	2,074	Neg.	Neg.	N/A	0.6	Neg.	N/A	2.8	6.8	N/A	N/A	145.5
Avdiivskyi Cok...	AVDK UK	Kiev, UX	1.04 UAH	+0.0	-3.6	-5.8	-39.1	0.04	8.8	7.8	4.0	0.4	16.3	1.4	0.53	189	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	-3.5	-4.8	-50.7	0.02	69.3	9.2	4.1	2.8	0.2	4.1	0.07	1,472	1.7	1.4	N/A	0.0	N/A	N/A	0.0	0.0	N/A	0.1	0.0
Ferrexpo PLC	FXPO LN	London	22.00 GBp	+4.8	-2.2	+2.3	-58.9	0.32	187.0	843.6	22.4	41.9	269.3	248.7	0.66	150	1.0	1.7	12.3	2.6	3.1	5.3	0.6	0.8	0.9	0.4	61.1
Yasynivskyi Cok...	YASK UK	Kiev, UX	0.23 UAH	+0.0	-30.3	+0.0	-22.0	0.01	2.7	3.4	9.0	0.2	0.0	2.5	2.38	42	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	13.02 UAH	+0.0	-20.7	-7.0	-36.7	0.56	5.9	-9.0	9.4	0.6	0.0	0.4	0.07	1,494	Neg.	Neg.	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.2	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.41 EUR	+0.0	+0.0	+2.5	+5.1	0.44	43.7	98.1	34.0	14.9	2.5	47.5	0.12	851	Neg.	Neg.	2.7	4.8	4.9	3.3	1.4	1.5	1.2	0.6	83.5
Agroliga	AGL PW	Warsaw	11.60 PLN	+0.9	-8.6	+1.9	+15.0	2.89	4.4	5.6	16.7	0.7	0.2	1.2	0.14	738	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	0.93 PLN	+2.2	-8.8	-7.9	-35.4	0.23	5.0	31.7	26.2	1.3	2.8	9.3	0.37	272	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	34.29 PLN	+0.0	+5.5	-0.6	+31.4	8.55	213.7	433.7	31.0	66.3	11.7	24.4	0.03	3,813	Neg.	13.0	3.4	3.6	3.4	3.6	1.1	1.3	1.1	0.9	49.6
Avangard	AVGR LI	London Intl	1.30 USD	+0.0	-18.2	+4.0	-38.1	1.30	83.0	373.7	21.7	18.0	0.3	5.6	0.01	13,012	Neg.	Neg.	Neg.	2.9	7.8	3.6	0.9	1.4	1.1	0.3	33.1
IMC	IMC PW	Warsaw	5.80 PLN	+1.8	-6.9	-2.8	-5.5	1.45	45.2	150.8	23.9	10.8	0.1	3.6	0.03	2,949	Neg.	3.4	2.3	2.6	2.9	3.7	1.1	1.0	1.0	1.7	69.8
Kernel Holding...	KER PW	Warsaw	48.73 PLN	+4.1	+13.3	+1.3	+48.5	12.15	967.8	1,349.7	58.8	568.8	2,750.6	2,303.6	0.42	238	9.1	5.0	4.8	3.4	3.9	3.9	0.6	0.6	0.5	1.1	31.6
KSG Agro	KSG PW	Warsaw	0.91 PLN	-3.2	-6.2	-2.2	-23.5	0.23	3.4	66.7	34.4	1.2	2.0	6.2	0.19	524	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	8.35 USD	-1.8	-9.8	-10.2	-10.1	8.35	882.3	2,055.0	22.3	196.9	428.9	352.2	0.34	290	Neg.	4.1	3.4	3.7	4.2	4.3	1.5	1.6	1.6	1.3	53.0
Milkiland	MLK PW	Warsaw	1.51 PLN	-1.9	+0.7	+6.3	-6.8	0.38	11.8	126.0	20.0	2.4	4.7	35.9	0.34	290	Neg.	Neg.	Neg.	9.2	25.4	10.6	0.4	0.6	0.5	0.1	42.5
Ovostar Union	OVO PW	Warsaw	90.00 PLN	+3.4	+1.1	-0.6	+26.8	22.43	134.6	144.2	25.0	33.6	6.7	24.7	0.00	20,597	5.3	5.9	6.3	4.9	5.7	5.2	1.9	1.9	1.4	1.6	9.4
CONSTRUCTION																											
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	1.29	78	Neg.	N/A	N/A	Neg.	N/A	N/A	3.6	N/A	N/A	0.0	41.9
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.07 UAH	+0.0	-1.0	-4.0	-24.0	0.00	93.8	N/A	3.8	3.6	0.1	6.5	0.17	573	N/A	5.1	3.9	N/A	N/A	N/A	N/A	N/A	N/A	0.6	N/A
Ukrspbank	USCB UK	Kiev, UX	0.10 UAH	+0.0	+7.0	-2.5	-26.0	0.00	102.8	N/A	4.5	4.6	20.8	1.5	0.05	1,867	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

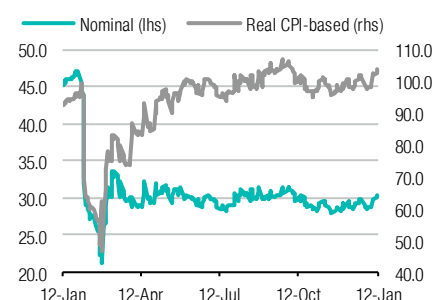
UAH's trade-weighted value continues to rise

Yesterday, the hryvnia continued its recovery, up another 0.75% to 23.225/USD, as its trade-weighted value increased for the consecutive second day by 1.02% (similar to its rise the previous day). Commodities declined again, as Brent and WTI oil prices fell 3.2% and 3.1%, respectively. The dollar index hit almost 100 points, reaching a trailing 12-month high that was crossed only briefly a few times over this period, staging another attempt to penetrate the ceiling. We believe this will be very short lived as well. Oil-driven currencies like the RUB and KZT were again down. We reiterate our view that in the current environment the hryvnia should be weaker.

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ICU's UAH trade-weighted indices

(Last 12-month history to 13 Jan 2016)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 12 Jan 2016)

		Last chg (%)	Daily chg (%)	Weekly chg (%)	MoM chg (%)	YTD chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)						
Spot mkt	23.2250	-0.75	-3.63	-2.42	-3.34	
NBU avg	23.2668	-1.01	-2.17	-2.49	-2.20	
Ttl vlm ¹	234.42	+10.94	+38.78	-4.29	-35.47	
\$ volume ²	175.74	+12.12	+32.16	+5.56	-30.00	
NDF 3M	26.2250	+5.77	-3.19	-2.15	+0.00	
NDF 6M	26.7250	-0.65	-3.13	-2.11	-2.92	
NDF 1Y	27.4750	-0.63	-3.09	-2.05	+7.76	
TRADE-WEIGHTED INDICES (TWIs, points)						
UAH nom'l	30.238	+1.02	+5.03	+5.73	+5.74	
UAH real CPI	103.451	+1.02	+5.03	+5.73	+5.74	
UAH real PPI	136.019	+1.02	+5.03	+5.73	+5.74	
USD nom'l	98.974	+0.25	-0.43	+1.44	+0.35	
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs						
USD/RUB	76.9641	+1.02	+4.92	+9.35	+6.13	
EUR/USD	1.0858	-0.01	+1.02	-1.17	-0.04	
USD/CNY	6.5729	+0.03	+0.87	+1.82	+1.22	
USD/PLN	4.0132	+0.15	+0.14	+0.98	+2.30	
USD/TRY	3.0340	-0.12	+1.66	+1.72	+4.00	
USD/BYR	19,304.00	+1.03	+3.00	+5.83	+3.63	
USD/KZT	358.2500	+0.07	+4.30	+13.73	+5.18	
OTHER MAJOR CURRENCIES						
USD/JPY	117.6500	-0.09	-1.18	-2.78	-2.14	
GBP/USD	1.4448	-0.65	-1.55	-5.03	-1.95	
USD/CHF	1.0022	+0.07	-0.64	+1.99	+0.01	
AUD/USD	0.6986	-0.13	-2.44	-2.82	-4.12	
USD/CAD	1.4262	+0.32	+1.90	+3.68	+3.06	
USD/BRL	4.0277	-0.64	+0.50	+4.00	+1.69	
USD/KRW	1,210.30	+0.05	+1.86	+2.61	+3.00	
COMMODITIES						
Gold(\$/oz)	1,086.56	-0.70	+0.82	+1.10	+2.37	
WTI crude ³	30.44	-3.09	-15.37	-14.54	-17.82	
Brent crd ³	28.68	-3.24	-19.44	-23.17	-19.78	
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00	
TR/J CRB ⁴	162.07	-1.32	-6.35	-7.31	-7.99	

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>).

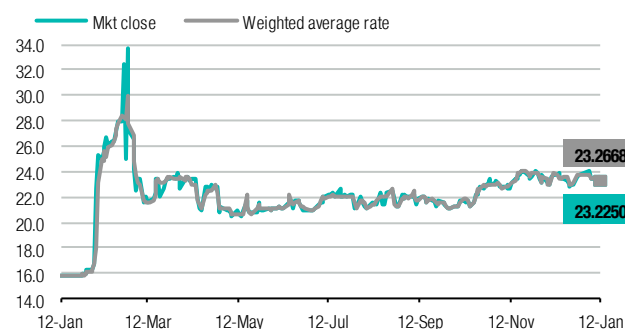
Section on FX market is continued on next page.

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.

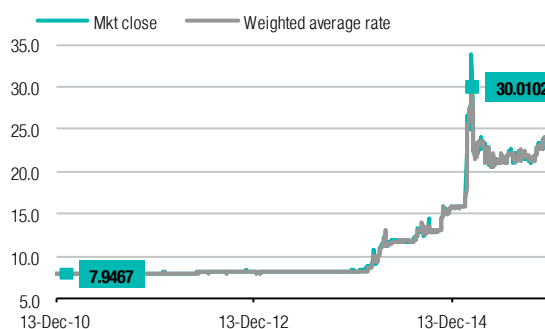
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

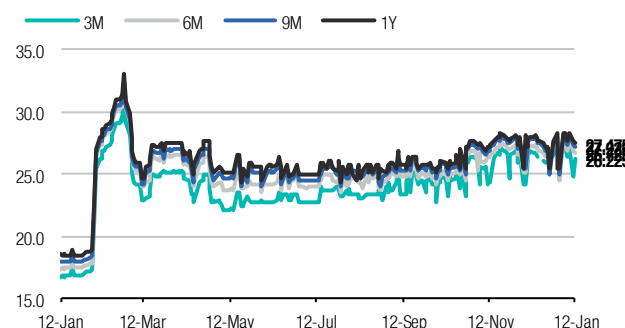


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

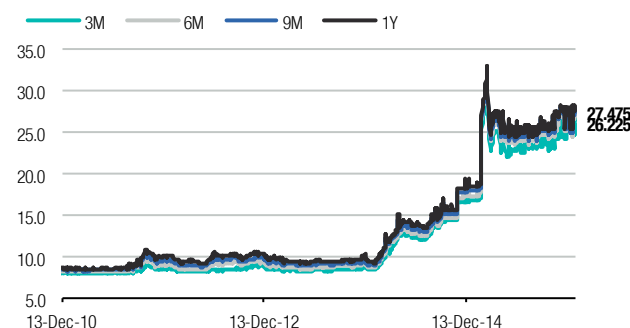


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

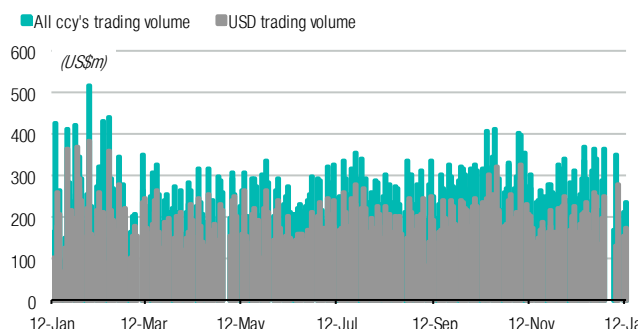


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

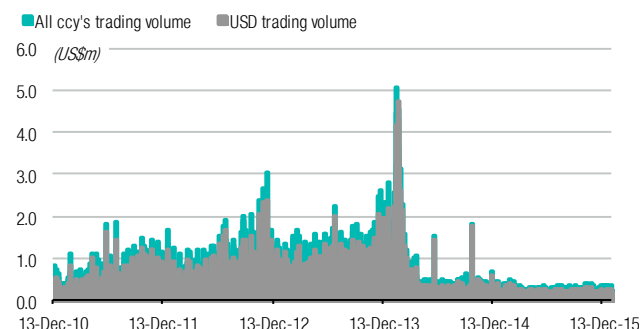


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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)

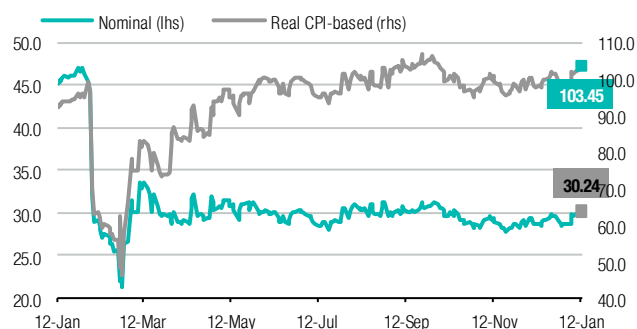


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

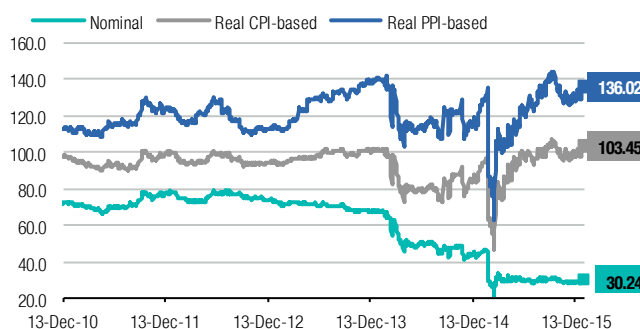
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



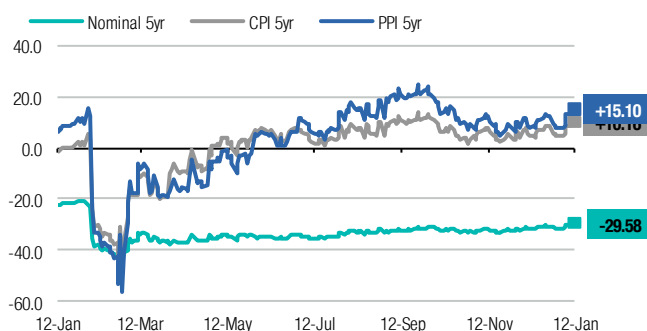
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

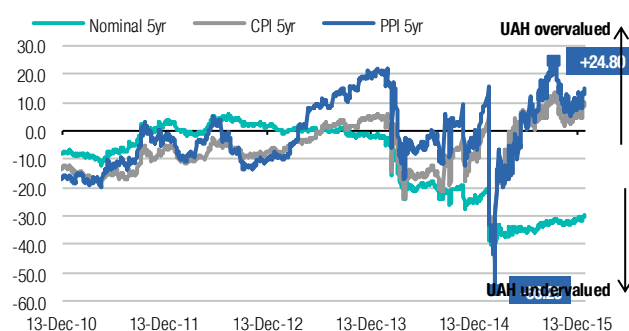


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

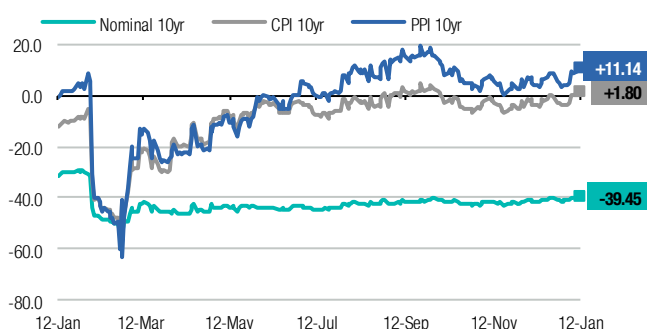


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

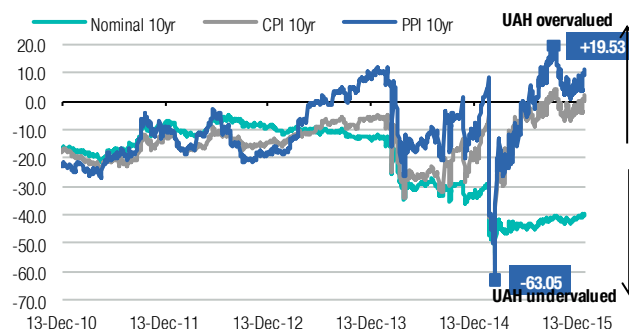


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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.

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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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