



Focus  
**Ukraine**

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

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# Daily Insight

## UAH in a slow slide

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**WEDNESDAY, 4 NOVEMBER 2015**

### UX Index (3 months to 4 Nov 2015)



Source: UX.

### Key market indicators (as of 3 Nov 2015)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	23.2500	+0.87	+46.97
USD/UAH (1Y NDF)	27.5000	-0.36	+49.05
EUR/USD	1.0964	-0.47	-9.37
USD/RUB	62.5952	-1.67	+3.06
KievPRIME O/N (%)	18.50	-10bp	-40bp
KievPRIME 1M (%)	22.20	-5bp	+230bp
<b>SOVEREIGN EUROBONDS: yields and spreads</b>			
Ukraine 15, Eurobond (%)	N/A	+0bp	-5,346bp
Ukraine 17, Eurobond (%)	26.88	+5bp	-88bp
Ukraine 22, Eurobond (%)	13.03	+1bp	-322bp
Ukraine 23, Eurobond (%)	11.55	+1bp	-401bp
Ukraine 5Y CDS	0bp	+0bp	-2,199bp
<b>EQUITIES</b>			
<b>Stock market indices</b>			
UX (Ukraine)	787.34	+0.19	-23.80
MSCI World	414.38	+0.24	-0.66
MSCI EM	860.77	+1.24	-9.99
RTS (Russia)	886.36	+3.82	+12.61
WIG-20 (Poland)	2,061.38	-0.76	-10.99
S&P 500 (USA)	2,109.79	+0.27	+2.47

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 slightly

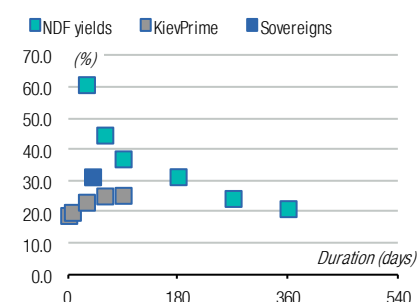
Banking sector liquidity declined UAH0.90bn to UAH85.45bn yesterday, most likely as a result of the slight weakening of the hryvnia last week. Banks' correspondent accounts with the NBU fell UAH2.20bn to UAH20.18bn, the lowest level since the beginning of September 2015, while total CDs outstanding rose UAH1.30bn to UAH65.28bn.

**Investment implications: The hryvnia's weakening and a portion of FX sold by the NBU were the main causes of the decline in liquidity, and the NBU could have refinanced a few off market early repayments as well. Another cause could have been Naftogaz purchasing of FX for gas payments abroad, whereby the NBU might have sold FX to Naftogaz directly to decrease demand at FX market. As a result, liquidity declined slightly with a reallocation of funds to CDs. This is not a negative development as we could see liquidity recover in a few days.**

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## Yield curve of the local bond market

(as of market close on 3 Nov 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

## Bond market indicators (as of 3 Nov 2015)

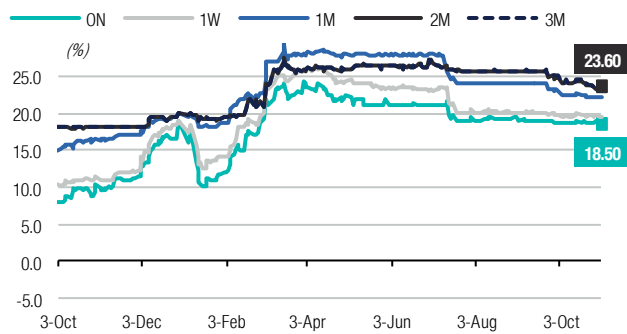
	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>MONEY MARKET KIEV PRIME RATES (%)</b>					
0/n	18.50	-10bp	-8bp	-30bp	-40bp
1wk	19.55	-5bp	-12bp	-25bp	+55bp
1m	22.20	-5bp	+12bp	-70bp	+230bp
2m	23.40	+0bp	-27bp	-130bp	+340bp
3m	23.60	+0bp	-23bp	-140bp	+360bp
<b>LIQUIDITY WIDE MEASUREMENT (UAHm)</b>					
CB acc's <sup>1</sup>	20,176	-9.83	-14.30	-16.18	-39.32
CDs <sup>2</sup>	65,277	+2.02	-1.87	+18.22	+313.5
Sovgns <sup>3</sup>	7,469	+0.00	-0.61	+49.30	+64.83
<b>Total</b>	<b>92,922</b>	<b>-0.96</b>	<b>-4.77</b>	<b>+10.24</b>	<b>+73.46</b>
<b>HOLDERS OF UAH SOVEREIGN BONDS (UAHm)</b>					
C.bank	370,840	+0.00	+0.52	+0.44	+16.57
Banks	83,131	+0.01	-0.11	+4.10	-11.03
Resid's <sup>4</sup>	21,118	+0.14	+0.18	+0.80	-13.98
Non-res <sup>5</sup>	22,667	+0.08	+0.53	+7.36	+5.21
<b>Total</b>	<b>497,755</b>	<b>+0.01</b>	<b>+0.40</b>	<b>+1.35</b>	<b>+8.76</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	-10ppt	-22ppt
Jun '16	56.66	+30bp	+174bp	+774bp	+20bp
Jul '17	26.88	+5bp	+30bp	+144bp	-88bp
Sep '20	13.36	+1bp	+6bp	+28bp	-549bp
Sep '21	14.15	+1bp	+6bp	+28bp	-439bp
Sep '22	13.03	+1bp	+4bp	+22bp	-322bp
Feb '23	11.55	+1bp	+4bp	-72bp	-401bp

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.

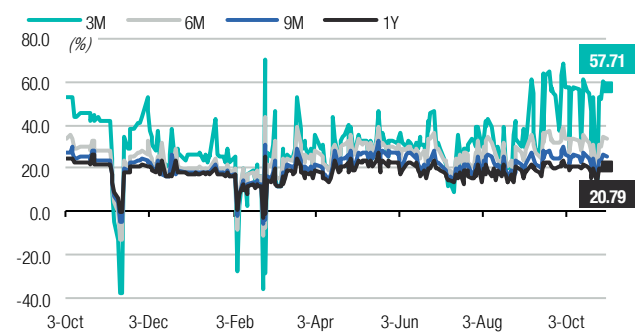
Chart page: Local bond market & Eurobond markets

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



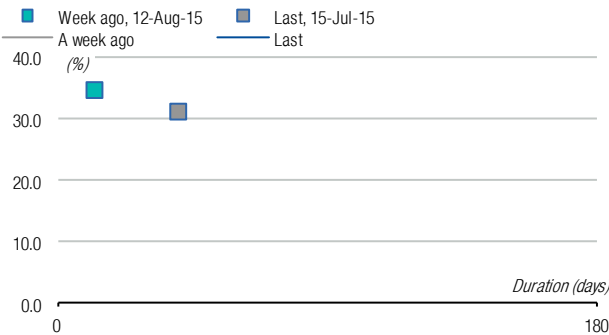
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



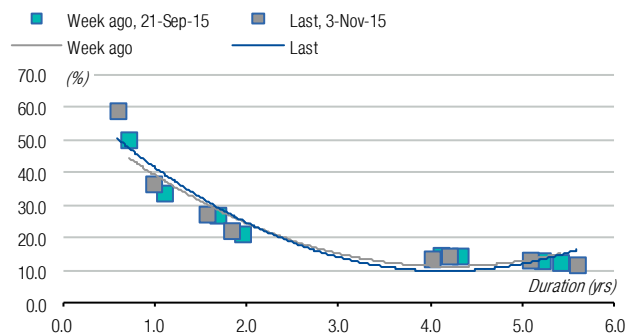
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



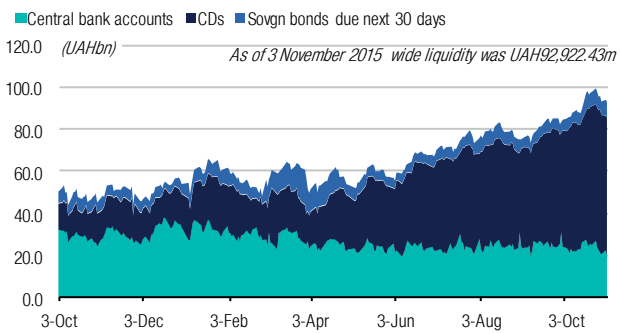
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 3 Nov 2015



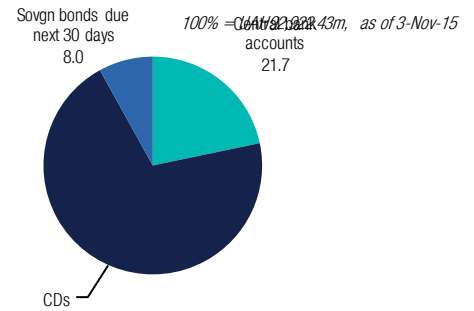
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



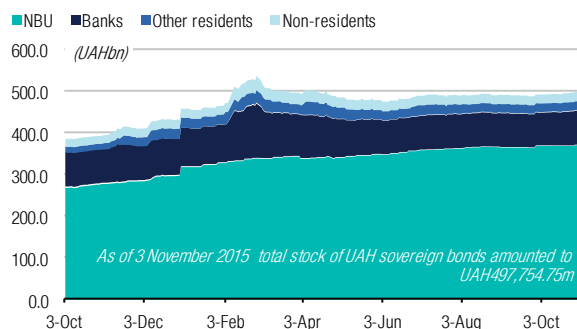
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 3 Nov 2015



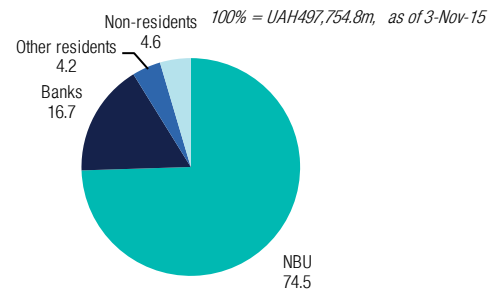
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 3 Nov 2015



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

Table 1. Ukrainian stocks (closing prices as of 3-Nov-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 (%)
<b>ENERGY</b>																											
Cadogan Petrol...	CAD LN	London	10.25 GBp	+0.0	-13.7	+2.5	+2.5	0.16	36.5	-12.6	40.2	14.7	0.0	9.5	0.02	4,748	Neg.	N/A	N/A	1.8	N/A	N/A	Neg.	N/A	N/A	0.5	15.3
Centrenerg	CEEN UK	Kiev, UX	5.38 UAH	-0.2	-4.7	-28.7	-28.1	0.23	85.7	73.7	21.7	18.6	1.9	10.3	0.06	1,740	28.1	Neg.	5.2	0.2	Neg.	2.1	0.2	0.2	0.2	0.9	4.2
Coal Energy	CLE PW	Warsaw	0.66 PLN	-4.3	-4.3	+6.5	-13.2	0.17	7.6	80.2	25.0	1.9	0.5	1.7	0.09	1,053	Neg.	N/A	N/A	11.0	N/A	N/A	0.7	N/A	N/A	0.3	56.9
Donbasenergo	DOEN UK	Kiev, UX	17.89 UAH	+2.2	-7.3	-45.8	-44.6	0.77	18.2	28.9	14.2	2.6	0.9	3.3	0.04	2,652	4.2	Neg.	N/A	0.0	N/A	N/A	0.1	0.2	N/A	0.3	13.6
JXK Oil & Gas	JXK LN	London	27.50 GBp	+0.0	+48.6	+129.2	-26.7	0.42	72.8	83.5	47.2	34.4	0.0	157.3	0.14	696	Neg.	Neg.	Neg.	Neg.	2.6	3.3	0.6	0.7	1.2	0.3	9.9
Regal Petroleum	RPT LN	London	4.13 GBp	+7.1	+10.0	+32.0	-34.0	0.06	20.4	-13.0	80.9	16.5	0.2	2.0	0.01	15,712	3.5	N/A	N/A	Neg.	N/A	N/A	Neg.	Neg.	N/A	0.3	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	95.00 UAH	+0.0	-26.9	-35.9	-37.9	4.10	52.4	86.0	5.0	2.6	0.0	0.3	0.03	2,959	Neg.	N/A	N/A	0.1	N/A	N/A	0.2	N/A	N/A	0.6	11.6
<b>METALLURGY</b>																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	+6.4	-15.3	-20.0	-49.8	0.00	12.9	1,783.8	3.9	0.5	0.1	0.2	0.08	1,250	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	1.11 UAH	+3.1	-4.8	-35.6	-55.4	0.05	9.4	8.8	4.0	0.4	1.2	1.0	0.19	515	Neg.	Neg.	N/A	Neg.	N/A	N/A	0.0	0.0	N/A	0.0	0.0
Azovstal	AZST UK	Kiev, UX	0.57 UAH	-1.7	-26.1	-24.2	-27.6	0.02	102.4	42.5	4.1	4.2	0.5	1.5	0.05	1,932	2.6	2.0	N/A	0.0	N/A	N/A	0.0	0.0	N/A	0.1	0.0
Ferrexpo PLC	FXPO LN	London	30.00 GBp	-7.0	-16.1	-38.7	-59.9	0.46	272.3	928.9	22.4	61.0	869.8	370.8	0.56	179	1.5	2.2	5.5	2.9	3.6	4.6	0.7	0.9	0.9	0.6	61.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.25 UAH	+0.0	-3.8	-10.7	-40.5	0.01	3.0	3.6	9.0	0.3	0.0	1.4	0.47	212	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	16.39 UAH	-0.1	-3.5	-21.8	-35.3	0.71	7.5	0.2	9.4	0.7	0.0	1.8	0.04	2,644	Neg.	Neg.	N/A	0.0	0.0	N/A	0.0	0.0	N/A	0.2	0.0
<b>FOOD AND AGRIBUSINESS</b>																											
AgroGeneration	ALAGR FP	EN Paris	0.46 EUR	+9.5	+12.2	+7.0	-8.0	0.50	46.5	139.8	34.0	15.8	222.1	66.0	0.81	124	Neg.	Neg.	2.9	Neg.	6.9	4.6	2.0	2.1	1.7	N/A	35.9
Agroliga	AGL PW	Warsaw	15.30 PLN	-1.2	+34.2	+70.0	+20.8	3.94	6.1	6.8	16.7	1.0	3.9	1.8	0.26	391	1.8	N/A	N/A	2.0	N/A	N/A	0.4	N/A	N/A	0.6	5.7
Agroton	AGT PW	Warsaw	1.23 PLN	+1.7	+16.0	+0.0	-33.5	0.32	6.9	33.6	26.2	1.8	9.8	15.6	2.00	50	Neg.	N/A	N/A	1.5	N/A	N/A	0.6	N/A	N/A	0.2	33.4
Astarta Holdin...	AST PW	Warsaw	36.95 PLN	-1.3	+32.4	+84.8	+29.2	9.51	237.7	463.0	31.0	73.7	37.8	70.9	0.08	1,258	Neg.	41.9	3.8	3.9	4.1	4.1	1.2	1.2	1.1	1.0	49.6
Avangard	AVGR LI	London Intl	1.10 USD	+0.0	+22.2	-46.3	-83.0	1.10	70.3	370.5	21.7	15.2	0.0	45.6	0.06	1,814	Neg.	Neg.	Neg.	2.9	9.7	4.6	0.9	1.3	1.1	0.2	33.1
IMC	IMC PW	Warsaw	6.78 PLN	+0.4	+29.1	+19.6	-6.9	1.74	54.6	155.1	23.9	13.0	0.5	4.5	0.05	2,135	Neg.	2.6	2.0	2.7	2.8	2.9	1.1	1.2	1.2	2.0	69.8
Kernel Holding...	KER PW	Warsaw	53.40 PLN	+1.2	+18.9	+87.6	+111.2	13.74	1,094.9	1,429.4	58.8	643.5	3,022.4	2,029.7	0.40	251	10.2	5.1	5.3	3.6	3.9	4.0	0.6	0.6	0.5	1.2	31.6
KSG Agro	KSG PW	Warsaw	1.10 PLN	+5.8	+15.8	-1.8	-12.0	0.28	4.3	74.3	34.4	1.5	6.0	13.9	1.57	64	Neg.	N/A	N/A	7.4	N/A	N/A	2.3	N/A	N/A	N/A	67.4
MHP	MHPC LI	London Intl	9.17 USD	-2.6	-5.5	-0.3	-16.6	9.17	969.0	2,194.8	22.3	216.3	408.1	359.1	0.10	985	Neg.	6.1	3.5	4.0	4.4	4.3	1.6	1.8	1.7	1.4	53.0
Milkiland	MLK PW	Warsaw	1.95 PLN	-1.5	+99.0	+31.8	-30.4	0.50	15.7	121.9	20.0	3.1	10.4	54.3	3.59	28	Neg.	Neg.	Neg.	8.9	6.8	6.8	0.4	0.5	0.5	0.2	42.5
Ovostar Union	OVO PW	Warsaw	87.31 PLN	+0.1	+2.6	+21.3	+18.0	22.47	134.8	143.2	25.0	33.7	2.2	14.9	0.01	11,568	5.3	6.4	6.3	4.9	5.6	4.8	1.8	1.9	1.4	1.6	9.4
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Frankfurt	0.02 EUR	+0.0	+33.3	-80.0	-90.1	0.02	0.9	93.8	13.1	0.1	0.0	0.0	0.00	339,239	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	0.08 UAH	+1.5	+3.4	-17.5	-36.1	0.00	102.4	N/A	3.8	3.9	4.0	5.5	0.15	646	N/A	Neg.	5.5	N/A	N/A	N/A	N/A	N/A	N/A	0.6	N/A
Ukrsotsbank	USCB UK	Kiev, UX	0.08 UAH	+0.0	-15.8	-38.6	-45.9	0.00	85.1	N/A	4.5	3.8	0.0	0.6	0.00	57,537	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

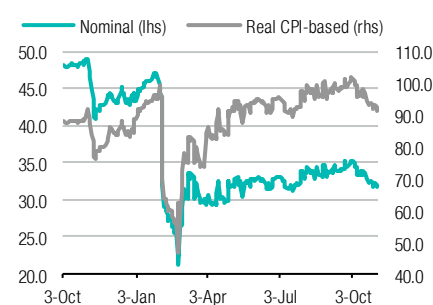
## UAH on a slow slide

The NBU yesterday did not hold its routine daily auction of the FX, a practice over the past nearly two months, possibly because of a reluctance to sell FX to market participants. In the OTC market, the FX rate of UAH versus USD inched down another 0.02% to close at 23.0194 on US\$213.7m in trading. In trade-weighted terms, the hryvnia was only slightly affected as the key currencies in its basket--namely the EUR and RUB--moved in directions that offset each other's impact on the UAH's TWI.

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### ICU's UAH trade-weighted indices

(Last 12-month history to 4 Nov 2015)



Source: Investment Capital Ukraine LLC.

### FX market indicators (as of 3 Nov 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	23.2500	+0.87	+1.57	+9.93	+46.97
NBU avg	23.0194	+0.02	+0.68	+8.85	+45.98
Ttl vlm <sup>1</sup>	297.00	+9.21	+14.70	+11.03	-31.07
\$ volume <sup>2</sup>	213.70	+6.78	+17.84	-1.22	-39.68
NDF 3M	26.2500	-0.38	+1.39	+8.70	+55.79
NDF 6M	26.7500	-0.37	+1.36	+8.52	+53.74
NDF 1Y	27.5000	-0.36	+1.33	+8.27	+49.05
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	31.643	-1.10	-2.35	-9.84	-28.84
UAH real CPI	91.336	-1.10	-2.35	-9.84	+5.54
UAH real PPI	109.842	-1.10	-2.35	-9.84	-6.73
USD nom'l	97.158	+0.24	+0.26	+1.39	+7.63
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	62.5952	-1.67	-3.96	-5.71	+3.06
EUR/USD	1.0964	-0.47	-0.79	-2.25	-9.37
USD/CNY	6.3363	-0.02	-0.26	-0.33	+2.11
USD/PLN	3.8776	+0.26	+0.02	+2.35	+9.43
USD/TRY	2.8293	+0.18	-2.58	-5.43	+21.17
USD/BYR	17,421.00	-0.22	+0.21	-1.85	+58.37
USD/KZT	283.2500	+0.71	+1.32	+4.24	+55.33
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	121.0700	+0.26	+0.51	+0.97	+1.08
GBP/USD	1.5421	+0.03	+0.79	+1.55	-1.00
USD/CHF	0.9909	+0.40	+0.47	+2.00	-0.34
AUD/USD	0.7186	+0.55	-0.10	+2.00	-12.10
USD/CAD	1.3060	-0.26	-1.58	-0.70	+12.38
USD/BRL	3.7691	-2.25	-3.07	-4.17	+41.82
USD/KRW	1,132.95	-0.35	+0.18	-4.03	+3.85
<b>COMMODITIES</b>					
Gold(\$/oz)	1,117.79	-1.42	-4.21	-1.85	-5.66
WTI crude <sup>3</sup>	47.90	+3.81	+10.88	+5.18	-10.08
Brent crd <sup>3</sup>	48.90	+2.32	+8.47	+3.14	-12.30
Urals crd <sup>3</sup>	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB <sup>4</sup>	197.56	+1.36	+3.25	+1.78	-14.09

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.

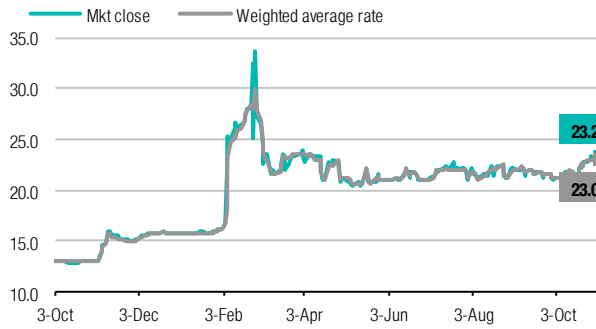
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

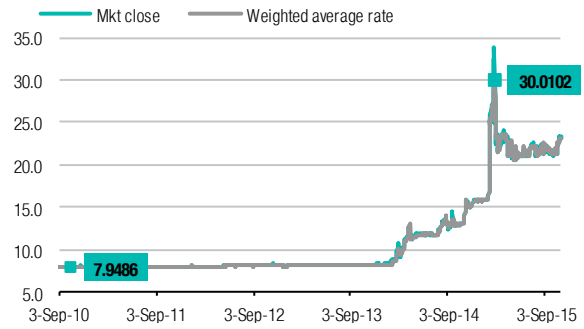
Section on FX market is continued on next page.

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)

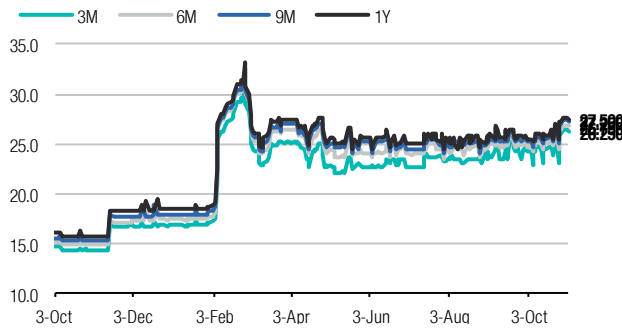


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

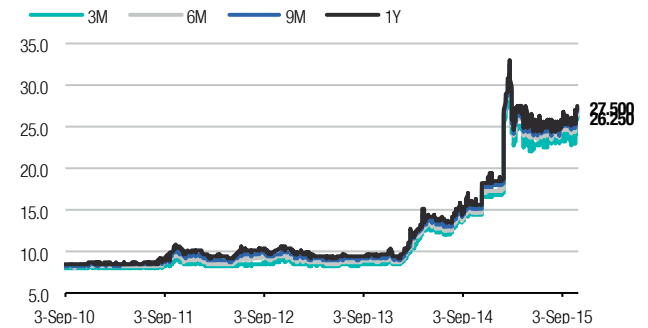


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

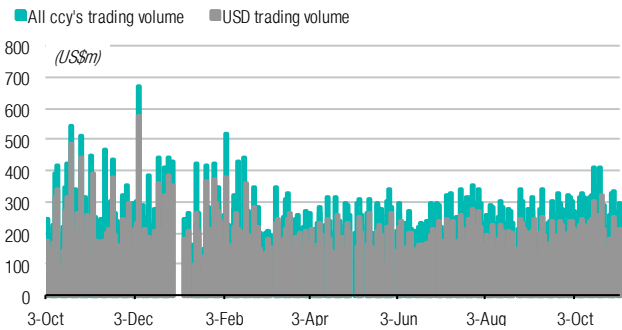


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

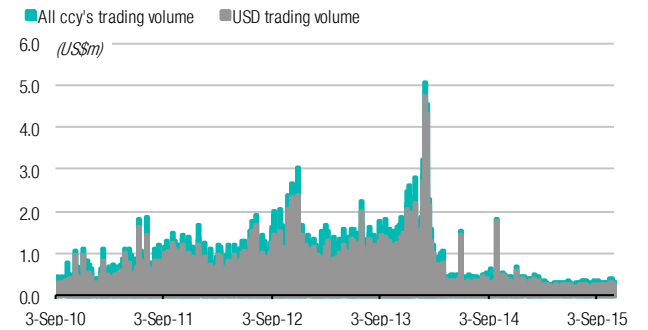


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

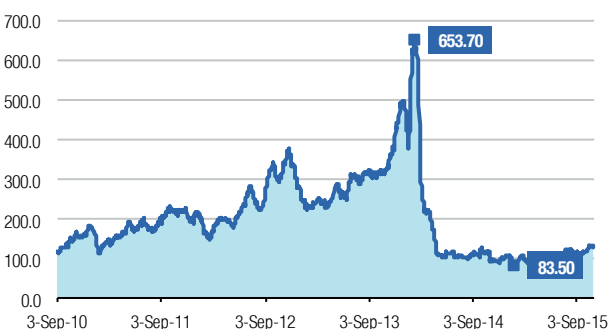
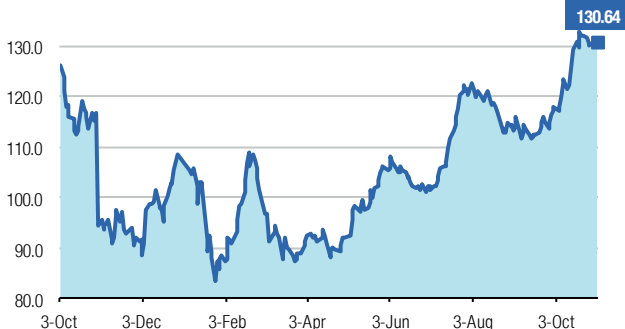


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

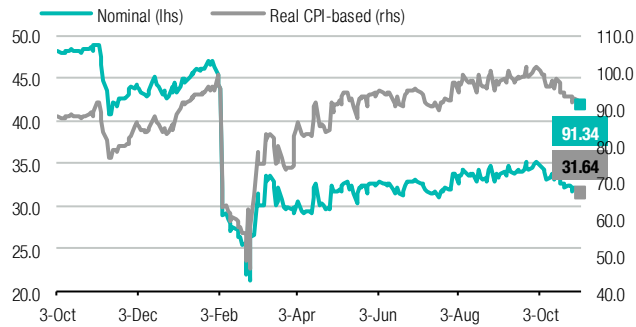


Note: \* 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

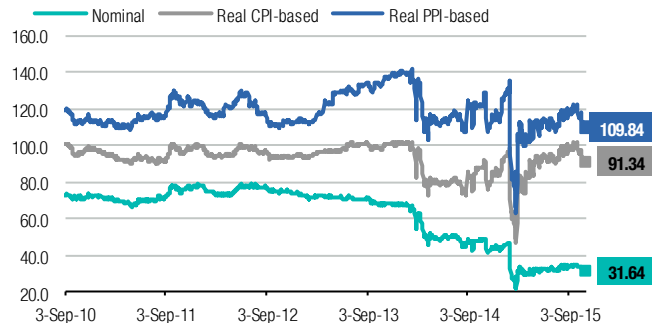
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



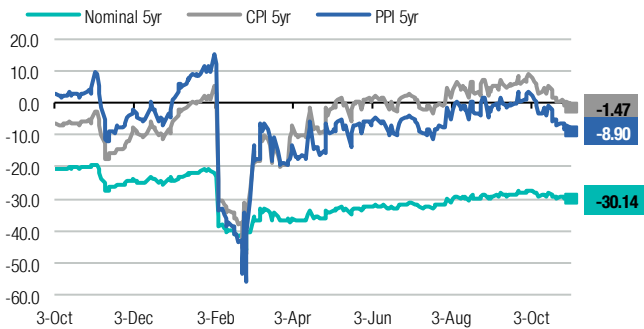
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

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

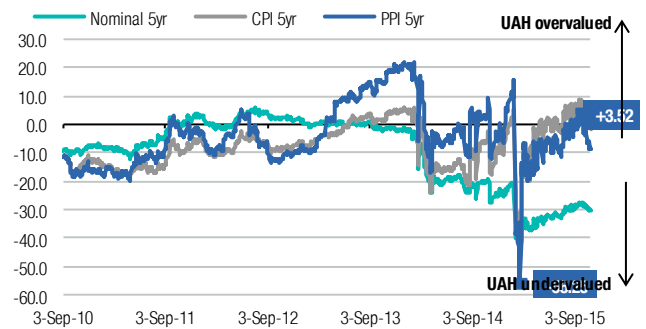


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

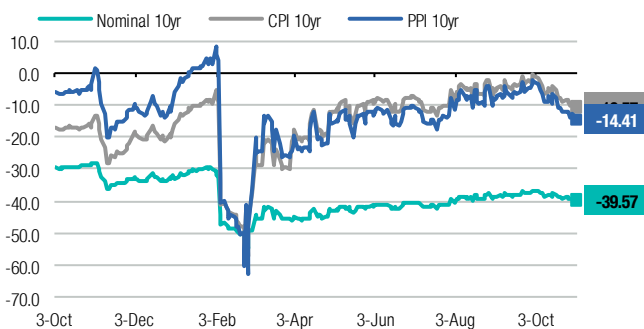


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

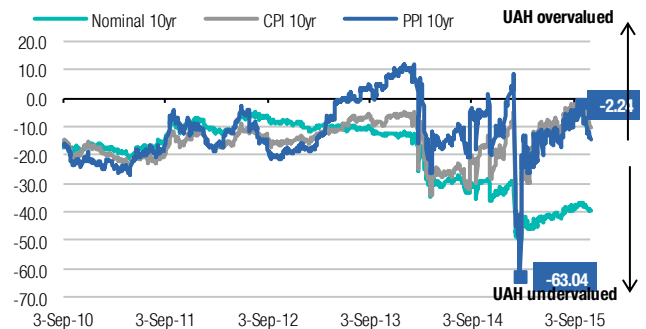


Note: the boxes indicate the high and low values of CPI-based TWI.  
Source: Investment Capital Ukraine LLC.

**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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