



Focus  
**Ukraine**

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

Research team  
**Taras Kotovych**

# Daily Insight

## Liquidity begins to decline

### Contents

<b>Bonds: News &amp; Comments</b>	<b>2</b>
Liquidity begins to decline .....	2
Chart page: Local bond market & Eurobond markets .....	3
<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

**WEDNESDAY, 28 OCTOBER 2015**

### UX Index (3 months to 28 Oct 2015)



Source: UX.

### Key market indicators (as of 27 Oct 2015)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	22.8900	+0.84	+44.69
USD/UAH (1Y NDF)	27.1400	+6.45	+47.10
EUR/USD	1.1051	-0.06	-8.65
USD/RUB	65.1741	+3.44	+7.31
KievPRIME O/N (%)	18.58	+0bp	-32bp
KievPRIME 1M (%)	22.08	+0bp	+218bp
<b>SOVEREIGN EUROBONDS: yields and spreads</b>			
Ukraine 15, Eurobond (%)	N/A	+0bp	-5,346bp
Ukraine 17, Eurobond (%)	26.58	+5bp	-118bp
Ukraine 22, Eurobond (%)	12.98	+1bp	-327bp
Ukraine 23, Eurobond (%)	11.52	+1bp	-405bp
Ukraine 5Y CDS	N/A		
<b>EQUITIES</b>			
<b>Stock market indices</b>			
UX (Ukraine)	806.56	+4.15	-21.94
MSCI World	409.86	-0.52	-1.74
MSCI EM	862.71	-0.57	-9.79
RTS (Russia)	839.26	-2.19	+6.62
WIG-20 (Poland)	2,113.06	+0.11	-8.76
S&P 500 (USA)	2,065.89	-0.26	+0.34

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 begins to decline

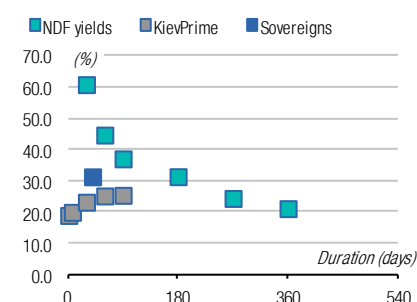
Banking sector liquidity started its routine decline at the end of the month, down UAH1.79bn to UAH90.06bn yesterday. Banks' correspondent accounts with the NBU fell UAH3.41bn to UAH23.54bn while total CDs outstanding rose UAH1.62bn to UAH66.52bn.

**Investment implications: Banks significantly increased purchasing of ON CDs in anticipation of liquidity declining this week and decreased purchasing of longer term CDs. Total CDs sold at the tender remained at UAH14.0bn, unchanged from a few days before. Month-end tax payments will continue to put pressure on liquidity, but we do not anticipate a significant liquidity decline.**

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

## Yield curve of the local bond market

(as of market close on 27 Oct 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

## Bond market indicators (as of 27 Oct 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)

### MONEY MARKET KIEV PRIME RATES (%)

O/n	18.58	+0bp	-12bp	-25bp	-32bp
1wk	19.67	+0bp	-3bp	-16bp	+67bp
1m	22.08	+0bp	-42bp	-105bp	+218bp
2m	23.67	+0bp	-48bp	-116bp	+367bp
3m	23.83	+0bp	-52bp	-134bp	+383bp

### LIQUIDITY WIDE MEASUREMENT (UAHm)

CB acc's <sup>1</sup>	23,544	-12.65	-5.60	-2.20	-29.19
CDs <sup>2</sup>	66,520	+2.49	+2.68	+17.88	+321.4
Sovgns <sup>3</sup>	7,515	+0.00	-10.41	+70.10	+65.83
<b>Total</b>	<b>97,579</b>	<b>-1.80</b>	<b>-0.54</b>	<b>+14.91</b>	<b>+82.15</b>

### HOLDERS OF UAH SOVEREIGN BONDS (UAHm)

C.bank	368,935	+0.00	-0.01	+1.29	+15.97
Banks	83,225	+0.66	+2.83	+3.18	-10.93
Resid's <sup>4</sup>	21,081	+0.26	+0.52	+1.74	-14.13
Non-res <sup>5</sup>	22,548	+1.22	+4.91	+5.52	+4.66
<b>Total</b>	<b>495,789</b>	<b>+0.18</b>	<b>+0.69</b>	<b>+1.81</b>	<b>+8.33</b>

### 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 <sup>6</sup>	N/A	N/A	N/A	N/A	N/A

### EUROBONDS USD SOVEREIGN BOND YIELDS (%)

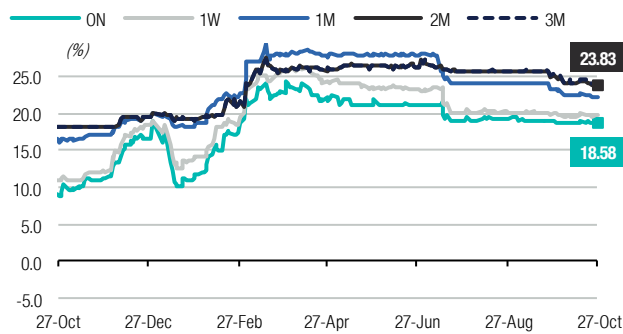
CDS 5yr	N/A	N/A	N/A	N/A	N/A
Jun '16	54.92	+28bp	+190bp	+795bp	+18bp
Jul '17	26.58	+5bp	+34bp	+179bp	-118bp
Sep '20	13.30	+1bp	+7bp	-72bp	-554bp
Sep '21	14.09	+1bp	+7bp	+20bp	-444bp
Sep '22	12.98	+1bp	+5bp	+48bp	-327bp
Feb '23	11.52	+1bp	+4bp	-61bp	-405bp

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.

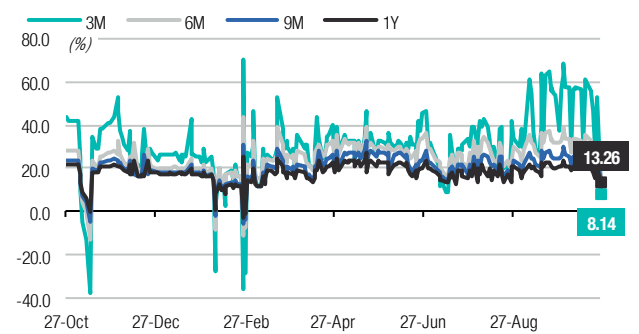
Chart page: Local bond market & Eurobond markets

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



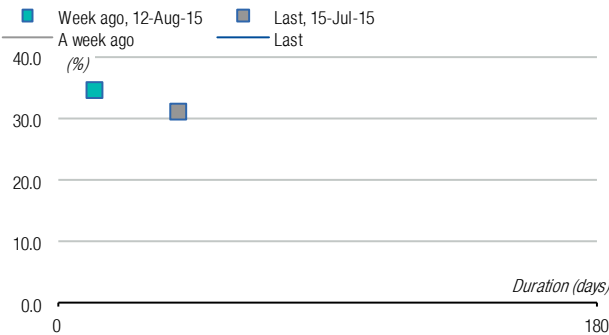
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



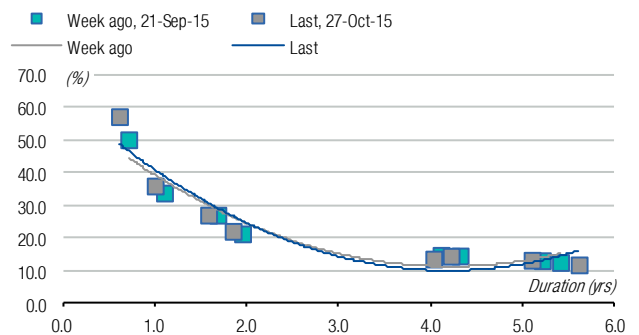
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



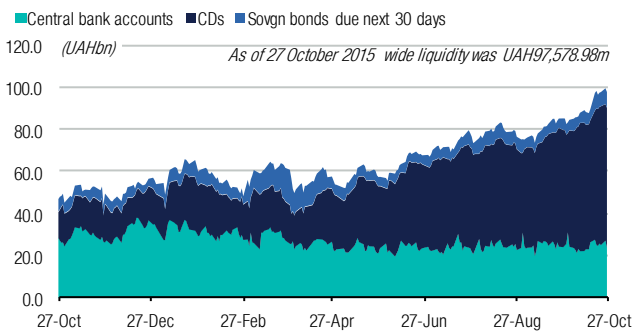
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



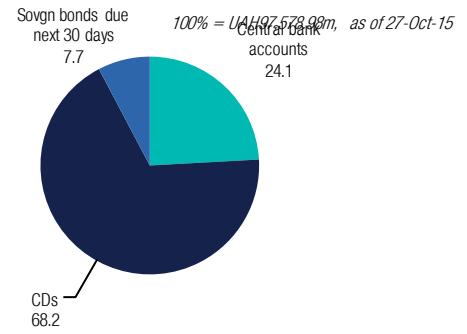
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



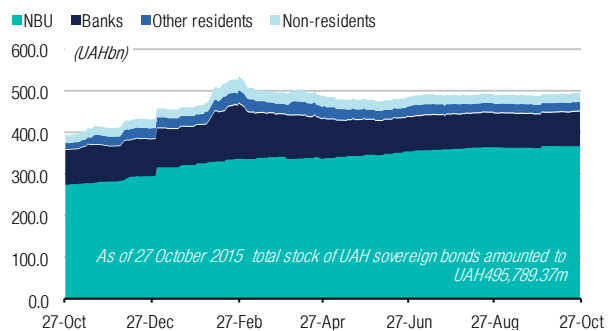
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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



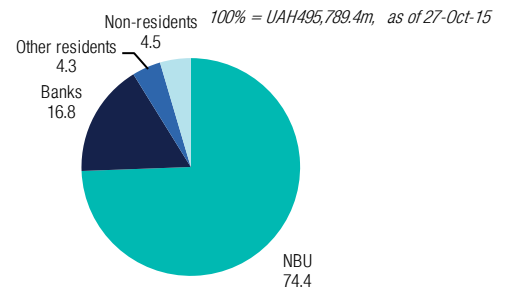
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 Oct 2015



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

Table 1. Ukrainian stocks (closing prices as of 27-Oct-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	10.63 GBp	+0.0	-10.5	+6.3	+6.3	0.16	37.6	-11.6	40.2	15.1	0.0	10.0	0.04	2,357	Neg.	N/A	N/A	1.7	N/A	N/A	Neg.	N/A	N/A	0.5	15.3
Centrenerg	CEEN UK	Kiev, UX	5.60 UAH	+0.0	-2.4	-25.8	-28.3	0.25	90.7	99.5	21.7	19.7	4.1	10.5	0.06	1,604	29.3	6.9	4.7	0.3	3.0	N/A	0.3	0.3	0.2	1.0	4.2
Coal Energy	CLE PW	Warsaw	0.71 PLN	+0.0	+2.9	+14.5	-16.5	0.18	8.2	80.8	25.0	2.1	2.6	1.9	0.10	985	Neg.	N/A	N/A	11.1	N/A	N/A	0.7	N/A	N/A	0.3	56.9
Donbasenergo	DOEN UK	Kiev, UX	18.50 UAH	+0.0	+1.3	-43.9	-46.4	0.81	19.2	30.0	14.2	2.7	2.2	3.4	0.07	1,360	4.3	Neg.	N/A	0.0	Neg.	N/A	0.1	0.2	N/A	0.4	13.6
JXK Oil & Gas	JXK LN	London	28.00 GBp	+1.8	+60.0	+133.3	-27.7	0.43	73.6	84.3	47.2	34.7	0.0	160.3	0.18	550	Neg.	Neg.	Neg.	Neg.	1.9	3.4	0.6	0.7	1.2	0.3	9.9
Regal Petroleum	RPT LN	London	4.50 GBp	+0.0	+16.1	+44.0	-28.0	0.07	22.1	-11.3	80.9	17.9	0.0	2.1	0.00	28,830	3.8	N/A	N/A	Neg.	N/A	N/A	Neg.	Neg.	N/A	0.3	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	90.00 UAH	+0.0	-30.8	-39.2	-48.5	3.95	50.5	84.6	5.0	2.5	0.3	0.2	0.02	5,131	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	-2.7	-18.6	-54.9	0.00	13.3	1,814.3	3.9	0.5	0.1	0.2	0.08	1,322	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	1.13 UAH	+0.0	+13.3	-34.6	-56.5	0.05	9.7	9.1	4.0	0.4	0.1	1.0	0.18	565	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.0	0.0
Azovstal	AZST UK	Kiev, UX	0.58 UAH	+0.0	-18.4	-21.6	-28.9	0.03	107.7	58.5	4.1	4.4	2.4	1.6	0.05	1,935	2.7	2.1	N/A	0.0	0.5	N/A	0.1	0.0	N/A	0.1	0.0
Ferrexpo PLC	FXPO LN	London	36.75 GBp	+0.0	+8.9	-24.9	-54.0	0.56	331.0	987.6	22.4	74.1	183.4	441.0	0.44	225	1.9	2.7	6.9	3.1	3.8	4.9	0.7	1.0	1.0	0.7	61.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.25 UAH	+0.0	-3.8	-10.7	-45.7	0.01	3.0	3.7	9.0	0.3	0.0	1.2	0.81	123	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.1	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	16.40 UAH	+0.0	+1.9	-21.7	-43.6	0.72	7.6	0.2	9.4	0.7	0.3	2.0	0.11	940	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	0.45 EUR	+0.0	+0.0	+4.7	-10.0	0.50	45.9	140.2	34.0	15.6	103.1	63.8	0.76	131	Neg.	Neg.	2.8	Neg.	6.9	4.6	2.0	2.1	1.7	N/A	35.9
Agroliga	AGL PW	Warsaw	15.43 PLN	+0.0	+51.3	+71.4	+20.5	3.97	6.1	6.9	16.7	1.0	11.7	1.8	0.22	449	1.7	N/A	N/A	2.0	N/A	N/A	0.4	N/A	N/A	0.6	5.7
Agroton	AGT PW	Warsaw	1.26 PLN	+0.0	+18.9	+2.4	-39.7	0.32	7.0	33.8	26.2	1.8	14.8	19.1	1.86	54	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	34.62 PLN	+0.0	+28.7	+73.1	+7.4	8.91	222.7	450.4	31.0	69.1	86.6	70.4	0.09	1,172	Neg.	37.4	3.6	3.8	4.0	4.0	1.2	1.2	1.1	1.0	49.6
Avangard	AVGR LI	London Intl	1.15 USD	+0.0	+35.3	-43.9	-81.7	1.15	73.5	373.7	21.7	15.9	2.3	47.8	0.05	2,196	Neg.	Neg.	Neg.	2.9	9.8	4.4	0.9	1.3	1.1	0.3	33.1
IMC	IMC PW	Warsaw	6.77 PLN	+0.0	+35.4	+19.4	-5.7	1.74	54.5	155.0	23.9	13.0	4.8	4.7	0.04	2,330	Neg.	3.0	1.8	2.7	2.8	2.9	1.1	1.2	1.1	2.0	69.8
Kernel Holding...	KER PW	Warsaw	52.50 PLN	+0.0	+16.7	+84.5	+102.1	13.51	1,076.5	1,411.7	58.8	632.7	1,421.3	2,074.9	0.48	209	10.1	5.1	5.0	3.6	3.9	4.0	0.6	0.6	0.5	1.2	31.6
KSG Agro	KSG PW	Warsaw	1.12 PLN	+0.0	+16.7	+0.0	-21.7	0.29	4.3	74.4	34.4	1.5	23.6	16.4	1.46	68	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	9.30 USD	+0.0	+1.1	+1.1	-14.7	9.30	982.7	2,208.5	22.3	219.3	277.0	366.1	0.15	665	Neg.	6.1	3.6	4.0	4.4	4.4	1.6	1.8	1.8	1.5	53.0
Milkiland	MLK PW	Warsaw	2.14 PLN	+0.0	+120.6	+44.6	-38.7	0.55	17.2	124.4	20.0	3.4	106.7	61.3	2.88	35	Neg.	Neg.	Neg.	9.0	7.1	7.1	0.4	0.5	0.5	0.2	42.5
Ovostar Union	OVO PW	Warsaw	87.30 PLN	+0.0	-1.9	+21.3	+23.0	22.46	134.8	143.3	25.0	33.7	3.7	14.8	0.01	13,340	5.3	6.3	6.6	4.9	5.9	5.4	1.8	1.9	1.4	1.6	9.4
<b>TRANSPORTATION</b>																											
KDM Shipping	KDM PW	Warsaw	4.74 PLN	+0.0	+89.6	+17.0	-31.3	1.22	11.3	-3.3	10.9	1.2	0.3	0.7	0.05	1,830	Neg.	N/A	N/A	6.4	N/A	N/A	Neg.	N/A	N/A	0.2	7.9
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Frankfurt	0.01 EUR	+0.0	+0.0	-85.0	-92.6	0.01	0.7	93.6	13.1	0.1	0.0	0.0	N/A	N/A	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	+0.0	+8.5	-15.1	-36.1	0.00	107.2	N/A	3.8	4.1	2.8	5.9	0.20	509	N/A	Neg.	6.0	N/A	N/A	N/A	N/A	N/A	N/A	0.6	N/A
Ukrsotsbank	USCB UK	Kiev, UX	0.09 UAH	+0.0	+2.3	-31.6	-40.3	0.00	96.3	N/A	4.5	4.3	0.1	0.7	0.00	74,057	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.4	38.2

**Table 1. Ukrainian stocks (closing prices as of 27-Oct-2015)**

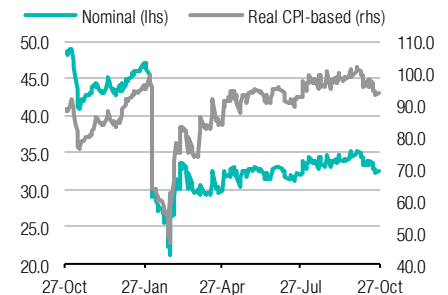
Company	Bloomberg Ticker	Listing	Share price performance (% change)				Valuation (US\$)			Free float (FF) & Liquidity				P/E			EV/EBITDA			EV/Sales			Ratios	
			Last price	Daily	MoM	YTD	YoY	Last price	Market cap (m)	EV (m)	FF (%)	FF mkt cap (US\$m)	Last day turnover (US\$ 000)	3M avg. turnover (US\$ 000)	FF share traded (%)	FF turnover (days)	2014	2015E	2016E	2014	2015E	2016E	2014	2015E

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 Oct 2015)



Source: Investment Capital Ukraine LLC.

## FX market indicators (as of 27 Oct 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	22.8900	+0.84	+2.95	+5.73	+44.69
NBU avg	22.8633	-0.19	+3.98	+5.77	+44.99
Ttl vlm <sup>1</sup>	258.93	+19.41	+4.30	-3.64	-39.91
\$ volume <sup>2</sup>	181.35	+22.03	+0.48	-1.62	-48.81
NDF 3M	25.8900	+11.85	+2.60	+5.43	+53.65
NDF 6M	26.3900	+7.73	+2.55	+5.32	+51.67
NDF 1Y	27.1400	+6.45	+2.47	+5.17	+47.10
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	32.405	+0.06	-0.65	-5.38	-27.12
UAH real CPI	93.537	+0.06	-0.65	-5.38	+8.08
UAH real PPI	112.490	+0.06	-0.65	-5.38	-4.48
USD nom'l	96.906	+0.05	+2.10	+0.66	+7.35
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	65.1741	+3.44	+4.92	-0.36	+7.31
EUR/USD	1.1051	-0.06	-2.60	-1.29	-8.65
USD/CNY	6.3525	+0.01	+0.06	-0.35	+2.37
USD/PLN	3.8770	+0.25	+3.23	+2.74	+9.41
USD/TRY	2.9043	+0.50	+0.13	-4.69	+24.38
USD/BYR	17,385.00	+0.46	+0.90	-1.81	+58.05
USD/KZT	279.5500	+0.09	+0.62	+3.52	+53.30
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	120.4600	-0.53	+0.52	-0.11	+0.57
GBP/USD	1.5300	-0.34	-0.93	+0.79	-1.78
USD/CHF	0.9863	+0.27	+3.15	+0.69	-0.80
AUD/USD	0.7193	-0.77	-0.92	+2.41	-12.01
USD/CAD	1.3269	+0.88	+2.23	-0.51	+14.18
USD/BRL	3.8886	-0.48	-0.43	-2.19	+46.32
USD/KRW	1,130.90	-0.26	+0.01	-5.33	+3.66
<b>COMMODITIES</b>					
Gold(\$/oz)	1,166.87	+0.33	-0.78	+1.79	-1.52
WTI crude <sup>3</sup>	43.20	-1.77	-5.16	-5.47	-18.90
Brent crd <sup>3</sup>	45.08	-0.77	-3.63	-3.41	-19.15
Urals crd <sup>3</sup>	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB <sup>4</sup>	191.34	-0.49	-3.08	-2.24	-16.80

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>).

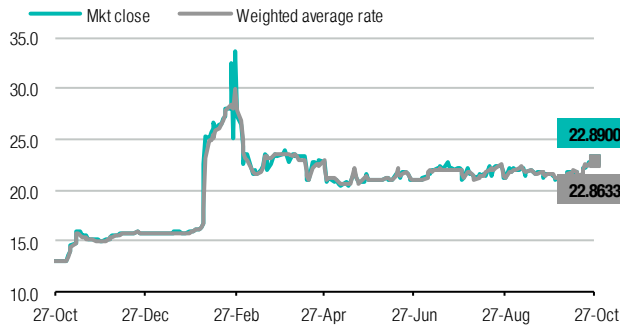
Section on FX market is continued on next page.

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.

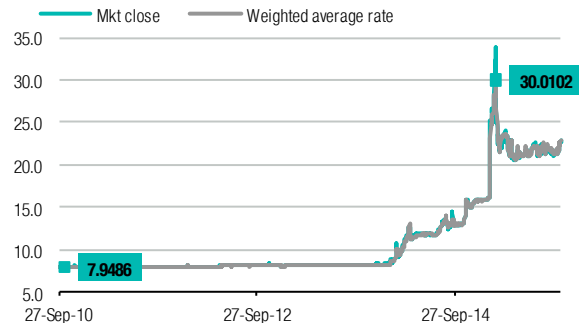
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

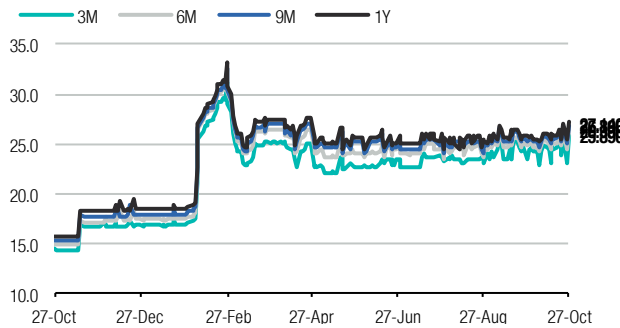


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

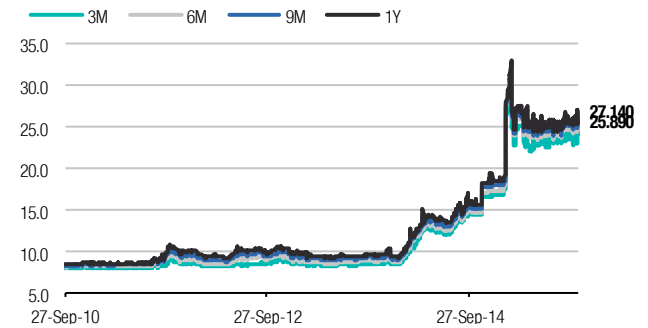


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

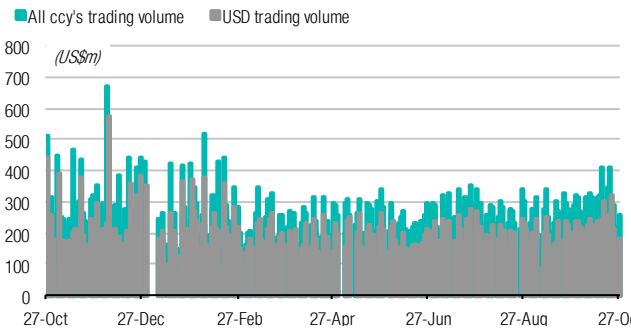


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

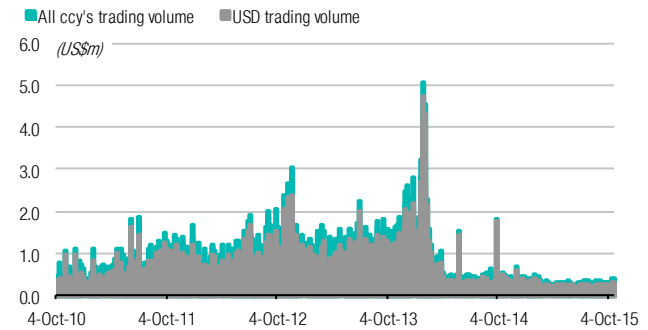


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

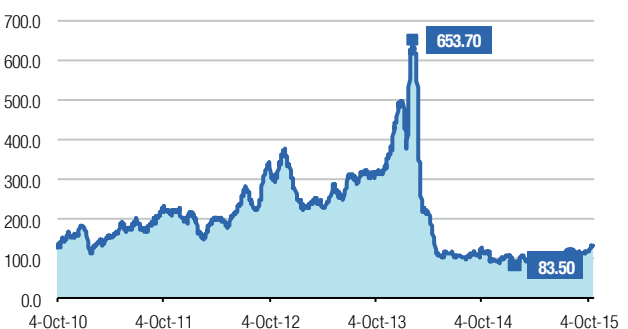
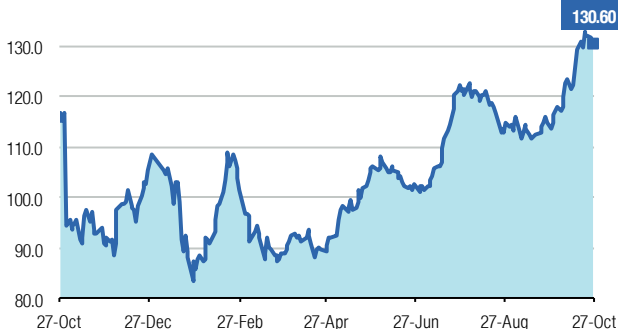


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

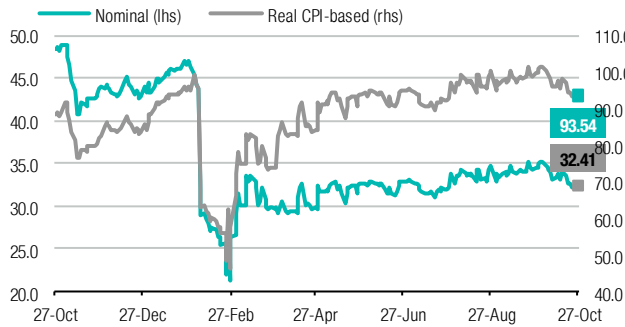


Note: \* 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

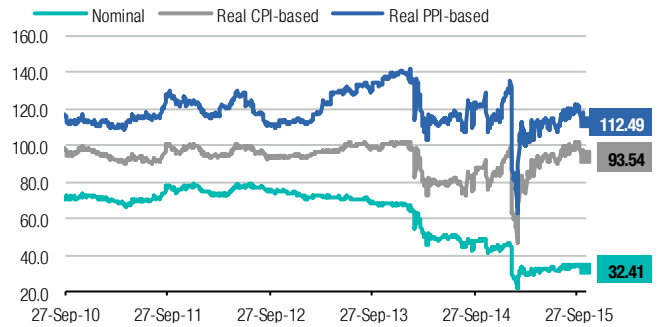
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



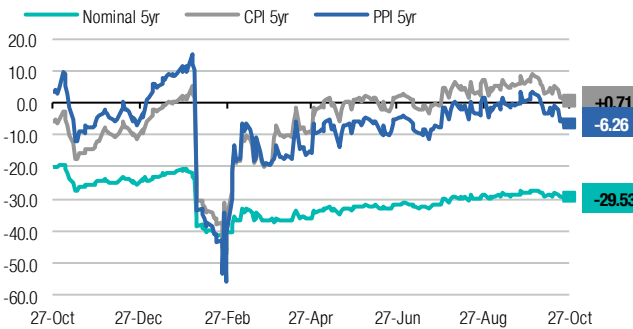
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

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

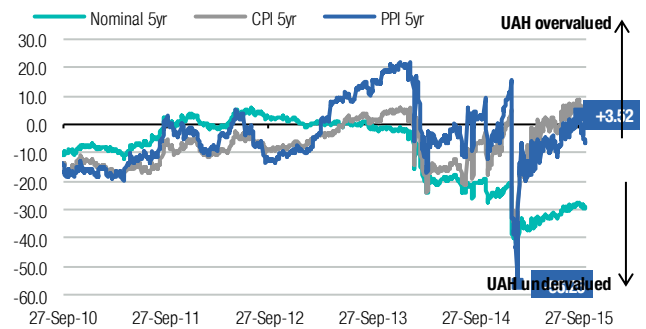


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

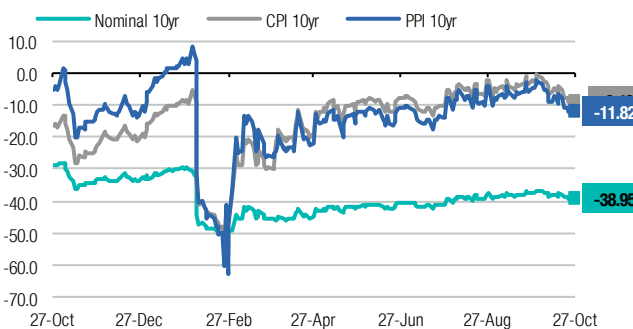


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

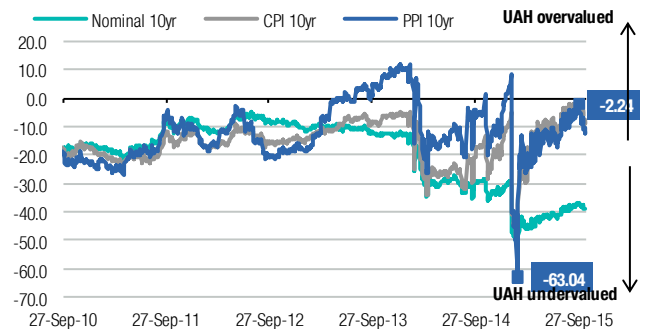


Note: the boxes indicate the high and low values of CPI-based TWI.  
Source: Investment Capital Ukraine LLC.

**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)

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

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

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


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

**Ruslan Patlavsky**, Vice President  
[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)

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


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


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

**Julia Pecheritsa**  
Ukraine and CIS International Sales  
[julia.pecheritsa@icu.ua](mailto:julia.pecheritsa@icu.ua)

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


## RESEARCH DEPARTMENT

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

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

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

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

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