

# Daily Insight

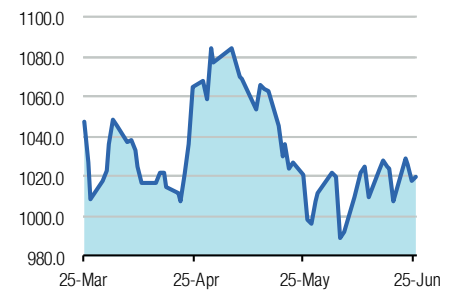
## Russia debt controversy still unresolved

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FRIDAY, 26 JUNE 2015

### UX Index (3 months to 26 Jun 2015)



Source: UX.

### Key market indicators (as of 25 Jun 2015)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	21.0000	-0.83	+32.74
USD/UAH (1Y NDF)	25.0000	+0.00	+35.50
EUR/USD	1.1205	+0.00	-7.38
USD/RUB	54.6997	+0.44	-9.94
KievPRIME O/N (%)	21.00	+0bp	+210bp
KievPRIME 1M (%)	28.00	+0bp	+810bp
<b>SOVEREIGN EUROBONDS: yields and spreads</b>			
Ukraine 15, Eurobond (%)	367.74	+411bp	+30,597bp
Ukraine 17, Eurobond (%)	50.45	+6bp	+2,270bp
Ukraine 22, Eurobond (%)	20.08	+0bp	+383bp
Ukraine 23, Eurobond (%)	19.49	+0bp	+392bp
Ukraine 5Y CDS	2,737bp	-137bp	+538bp
<b>EQUITIES</b>			
<b>Stock market indices</b>			
UX (Ukraine)	1,020.02	+0.22	-1.29
MSCI World	434.25	-0.27	+4.11
MSCI EM	988.18	-0.52	+3.33
RTS (Russia)	941.32	-1.06	+19.59
WIG-20 (Poland)	2,354.74	+0.25	+1.68
S&P 500 (USA)	2,102.31	-0.30	+2.11

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 with reallocations

Broader banking sector liquidity slid UAH0.57bn to UAH68.32bn yesterday, as funds were reallocated amidst slight outflows. Banks' correspondent accounts with the NBU rose a mere UAH0.76bn to UAH22.73bn while total CDs outstanding declined UAH0.55bn to UAH41.11bn. Total debt repayments scheduled for the next 30 days declined UAH0.78bn to UAH4.48bn. Although the NBU and the MoF provided small inflows to liquidity, these inflows did not cover all outflows which resulted in the broader indicator to decline. The main reason for the decline is month-end tax payments, but they should be mostly concentrated in today's outflows and those next Tuesday. We anticipate no significant liquidity movements in today's published indicators.

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

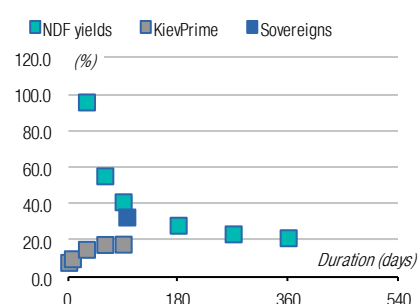
## Russia debt controversy still unresolved

The classification of the US\$3bn Russian Eurobond as official or private debt had another twist yesterday. During a [press briefing](#) at the IMF's Washington headquarters yesterday, Gerry Rise, an IMF spokesman, responded that Ukraine was current on its external debt after being asked about an update on its debt restructuring. Interfax-Ukraine had posted that an IMF official had denied a previous claim circulating over the last several days by [FT](#) and [Bloomberg](#) that the IMF was leaning to treat Russian debt as official public debt rather than as private debt. FT and Bloomberg referred to unnamed IMF sources for this significant new development. Our research on the issue yielded the following. Our communication via Twitter ([link](#)) with FT reporters, who initially broke the news back a few days ago and who were present at the IMF HQ press briefing, said that Gerry Rise seemed to dodge the question on the Russian bond. Interfax-Ukraine apparently jumped to the false conclusion that the IMF denied that it would treat the bond as official debt. In our view, the question and response were both quite vague and indefinite, with contrasting rumors creating more controversy and uncertainty. Natalia Jaresko, Ukraine's finance minister and top negotiator with external creditors, responded that the Fund's position did not change, implying that it would treat the Russian debt as private debt. Ukraine is currently holding a technical meeting with the private creditors' committee at the IMF headquarters next week to move negotiations forward. We believe that this meeting may produce more clarity on many issues, including this one. The Russian bond has been controversial since its inception in December 2013 and is likely to continue to be so.

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## Yield curve of the local bond market

(as of market close on 25 Jun 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

## Bond market indicators (as of 25 Jun 2015)

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

MONEY MARKET KIEV PRIME RATES (%)					
O/n	21.00	+0bp	+0bp	+0bp	+210bp
1wk	23.13	-4bp	-20bp	-37bp	+413bp
1m	28.00	+0bp	+0bp	+0bp	+810bp
2m	26.50	-17bp	+17bp	+17bp	+650bp
3m	26.50	-17bp	+17bp	+17bp	+650bp

LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's <sup>1</sup>	22,734	+3.46	-10.37	-5.67	-31.63
CDs <sup>2</sup>	15,290	-6.83	-45.89	-51.36	-3.14
Sovgns <sup>3</sup>	4,150	+0.00	+2.04	-17.25	-8.42
<b>Total</b>	<b>42,174</b>	<b>-0.85</b>	<b>-26.89</b>	<b>-30.35</b>	<b>-21.27</b>

HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	356,326	+0.00	+0.95	+3.13	+12.01
Banks	79,706	-0.77	-3.80	-7.49	-14.69
Resid's <sup>4</sup>	21,783	+0.10	+0.77	-6.43	-11.27
Non-res <sup>5</sup>	23,106	-1.32	-1.80	-1.87	+7.25
<b>Total</b>	<b>480,921</b>	<b>-0.19</b>	<b>-0.01</b>	<b>+0.51</b>	<b>+5.08</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

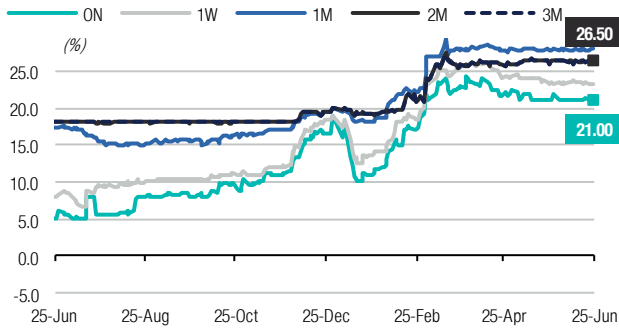
EUROBONDS USD SOVEREIGN BOND YIELDS (%)					
CDS 5yr	2,737	-137bp	-388bp	-499bp	+538bp
Jun '16	94.09	+28bp	-711bp	-429bp	+57bp
Jul '17	50.45	+6bp	-401bp	-349bp	+23bp
Sep '20	24.76	+1bp	-178bp	-257bp	+592bp
Sep '21	23.08	+1bp	-70bp	-334bp	+454bp
Sep '22	20.08	+0bp	-141bp	-302bp	+383bp
Feb '23	19.49	+0bp	+27bp	-162bp	+392bp

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.

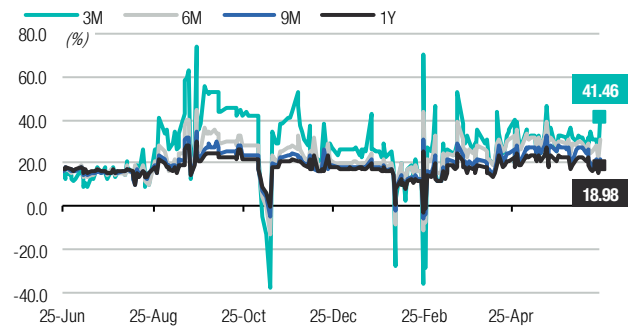
Chart page: Local bond market & Eurobond markets

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



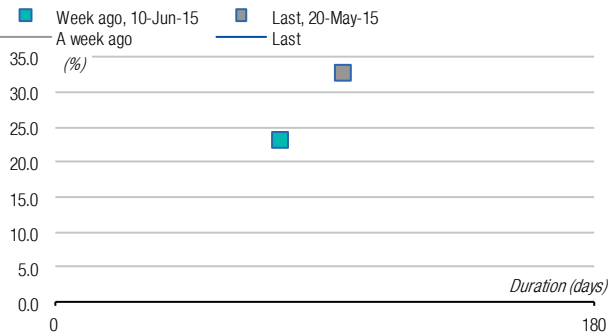
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



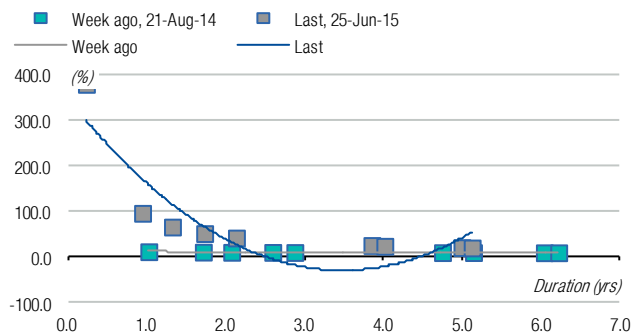
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 25 Jun 2015



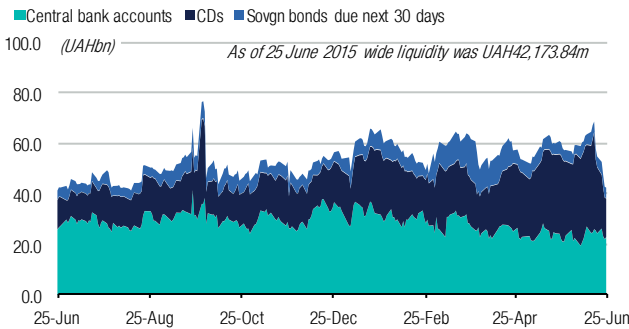
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 25 Jun 2015



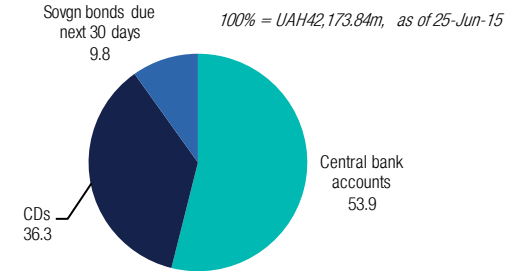
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



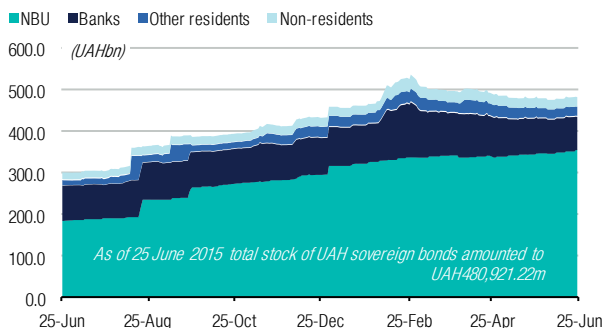
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 25 Jun 2015



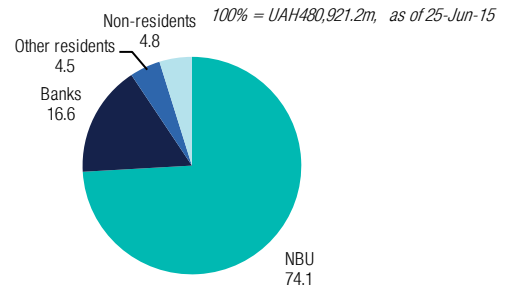
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 25 Jun 2015



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

Table 1. Ukrainian stocks (closing prices as of 25-Jun-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	13.00 GBP	+0.0	+40.5	+30.0	+33.3	0.20	47.3	16.0	40.2	19.0	56.3	38.6	0.45	223	Neg.	N/A	N/A	Neg.	N/A	N/A	0.5	N/A	N/A	0.5	15.3
Centrenerg	CEEN UK	Kiev, UX	7.75 UAH	-0.1	-0.7	+2.7	+4.4	0.37	135.0	140.2	21.7	29.3	4.7	20.0	0.09	1,165	40.5	Neg.	N/A	0.4	Neg.	N/A	0.4	0.3	N/A	1.3	4.2
Coal Energy	CLE PW	Warsaw	0.66 PLN	+10.0	+15.8	+6.5	-50.0	0.18	8.0	80.5	25.0	2.0	11.8	1.7	0.08	1,178	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	22.22 UAH	-0.1	-0.4	-32.7	-43.3	1.05	24.8	38.7	14.2	3.5	0.1	5.8	0.17	592	5.2	Neg.	N/A	0.0	10.8	N/A	0.2	0.2	N/A	0.3	13.6
JXK Oil & Gas	JXK LN	London	28.00 GBP	+0.0	-8.9	+133.3	-52.7	0.44	75.8	86.9	47.2	35.8	0.9	192.4	0.04	2,539	Neg.	Neg.	Neg.	Neg.	1.7	N/A	0.6	0.6	1.1	0.3	9.9
Regal Petroleum	RPT LN	London	4.75 GBP	+0.0	+8.5	+51.8	-42.5	0.07	23.9	-7.9	80.9	19.4	0.1	3.9	0.01	7,453	4.2	8.0	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.3	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	167.00 UAH	+0.0	+0.6	+12.8	+16.0	7.88	100.8	151.9	5.0	5.0	0.0	0.5	0.00	109,031	Neg.	N/A	N/A	0.1	N/A	N/A	0.3	N/A	N/A	0.7	11.6
<b>METALLURGY</b>																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	-3.1	-9.3	-12.4	-65.6	0.00	15.4	1,952.3	3.9	0.6	0.1	0.8	0.14	712	Neg.	Neg.	N/A	0.7	Neg.	N/A	2.8	6.3	N/A	N/A	145.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.13 UAH	-0.4	-4.0	-34.5	-65.1	0.05	10.4	8.0	4.0	0.4	0.1	1.3	0.44	228	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.0	0.0
Azovstal	AZST UK	Kiev, UX	0.80 UAH	+0.8	-0.1	+7.2	+2.7	0.04	158.4	116.1	4.1	6.5	0.3	6.0	0.13	748	3.7	2.8	N/A	0.1	1.0	N/A	0.1	0.1	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	69.00 GBP	-1.8	-2.1	+41.1	-42.3	1.09	639.2	1,336.1	22.4	143.2	335.3	894.1	0.63	160	3.6	7.9	13.9	3.2	6.0	7.2	1.0	1.3	1.3	0.9	61.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.25 UAH	+0.0	-3.5	-10.4	-64.5	0.01	3.2	3.9	9.0	0.3	0.0	0.2	0.21	470	Neg.	7.6	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.1	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	17.25 UAH	+1.6	+7.8	-17.7	-62.3	0.81	8.6	0.7	9.4	0.8	1.0	2.7	0.57	176	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	0.44 EUR	+2.3	-8.3	+2.3	-57.7	0.49	45.5	93.9	34.0	15.5	22.0	10.2	0.03	2,880	Neg.	N/A	N/A	Neg.	N/A	N/A	1.3	N/A	N/A	1.0	35.9
Agroliga	AGL PW	Warsaw	10.65 PLN	+0.0	+12.0	+18.3	-46.2	2.86	4.4	5.2	16.7	0.7	1.2	1.9	0.33	306	1.2	N/A	N/A	1.5	N/A	N/A	0.3	N/A	N/A	0.4	5.7
Agroton	AGT PW	Warsaw	1.12 PLN	-1.8	+13.1	-8.9	-61.2	0.30	6.5	33.9	26.2	1.7	4.3	12.2	0.50	200	Neg.	N/A	N/A	1.5	N/A	N/A	0.6	N/A	N/A	0.1	33.4
Astarta Holdin...	AST PW	Warsaw	29.13 PLN	-6.0	+12.6	+45.7	-33.0	7.82	195.5	431.5	31.0	60.6	10.5	218.7	0.16	620	Neg.	Neg.	3.7	3.6	3.6	4.2	1.1	1.0	1.0	1.2	49.6
Avangard	AVGR LI	London Intl	1.25 USD	-10.1	-53.7	-39.0	-87.4	1.25	79.8	342.0	21.7	17.3	30.5	27.3	0.16	633	Neg.	Neg.	2.1	2.6	5.0	4.2	0.8	0.9	0.8	0.2	33.1
IMC	IMC PW	Warsaw	4.51 PLN	+0.0	+0.2	-20.5	-54.9	1.21	37.9	146.4	23.9	9.0	0.1	4.0	0.11	909	Neg.	Neg.	1.4	2.6	2.6	2.5	1.1	1.1	1.0	1.4	69.8
Kernel Holding...	KER PW	Warsaw	38.70 PLN	-0.2	+5.3	+36.0	+17.7	10.39	827.9	1,302.3	58.8	486.6	1,492.5	1,304.4	0.28	356	Neg.	6.5	5.2	5.8	3.9	3.9	0.5	0.5	0.5	1.0	39.1
MHP	MHPC LI	London Intl	10.50 USD	+0.0	-3.2	+14.1	-28.8	10.50	1,109.5	2,269.5	22.3	247.6	1,167.9	770.3	0.35	285	Neg.	5.9	4.4	4.1	4.5	4.5	1.6	1.8	1.7	2.6	53.0
Milkiland	MLK PW	Warsaw	1.68 PLN	+1.8	-25.0	+13.5	-76.3	0.45	14.1	128.5	20.0	2.8	2.5	12.4	0.22	446	Neg.	Neg.	1.9	9.3	4.3	3.9	0.4	0.5	0.5	0.1	42.5
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Frankfurt	0.02 EUR	+0.0	-4.0	-70.0	-89.3	0.03	1.4	128.5	13.1	0.2	0.0	0.3	0.09	1,125	Neg.	N/A	N/A	Neg.	N/A	N/A	3.8	N/A	N/A	0.0	45.5
<b>FINANCIAL SERVICES</b>																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.09 UAH	+0.8	-2.5	-6.3	-40.0	0.00	127.3	N/A	3.8	4.9	12.2	9.9	0.16	609	N/A	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.7	N/A
Ukrsotsbank	USCB UK	Kiev, UX	0.08 UAH	+0.0	-16.9	-36.2	-49.6	0.00	96.6	N/A	4.5	4.3	0.0	0.3	0.01	8,821	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

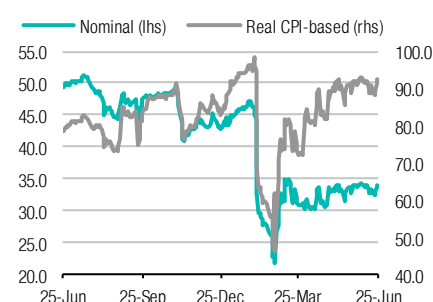
## NBU intervenes

The NBU reportedly intervened in the FX market with bid/offer quotes at 21/23 to the dollar. The hryvnia rose another 0.83% after rising 2.08% the previous day. External factors again for the second consecutive day pushed the hryvnia's trade weighted value up 0.93%; the Russian ruble dropped 0.44% and the euro was flat to the dollar.

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## ICU's UAH trade-weighted indices

(Last 12-month history to 26 Jun 2015)



Source: Investment Capital Ukraine LLC.

## FX market indicators (as of 25 Jun 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	21.0000	-0.83	-0.71	+1.20	+32.74
NBU avg	21.1961	+0.09	-0.62	+0.30	+34.42
Ttl vlm <sup>1</sup>	257.37	+14.46	+18.46	+23.45	-40.27
\$ volume <sup>2</sup>	195.55	+26.88	+21.30	+94.09	-44.80
NDF 3M	22.9422	-1.75	-0.03	-0.88	+36.16
NDF 6M	24.4500	+0.00	+3.16	+2.00	+40.52
NDF 1Y	25.0000	+0.00	+1.63	+0.73	+35.50
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	33.946	+0.93	+1.68	+1.19	-23.66
UAH real CPI	92.287	+0.93	+1.68	+1.19	+6.64
UAH real PPI	110.374	+0.93	+1.68	+1.19	-6.28
USD nom'l	95.187	-0.08	+1.22	-0.86	+5.45
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	54.6997	+0.44	+2.33	+9.36	-9.94
EUR/USD	1.1205	+0.00	-1.36	+2.07	-7.38
USD/CNY	6.2092	+0.03	+0.02	+0.11	+0.06
USD/PLN	3.7233	+0.02	+1.33	-0.41	+5.07
USD/TRY	2.6552	-0.84	-2.11	+1.52	+13.71
USD/BYR	15,434.00	+0.22	+0.58	+7.78	+40.31
USD/KZT	186.2100	+0.00	+0.08	+0.21	+2.12
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	123.6300	-0.18	+0.54	+1.70	+3.21
GBP/USD	1.5747	+0.26	-0.84	+1.79	+1.09
USD/CHF	0.9368	+0.33	+1.64	-0.88	-5.78
AUD/USD	0.7738	+0.44	-0.79	-1.10	-5.35
USD/CAD	1.2328	-0.44	+0.87	+0.11	+6.08
USD/BRL	3.1275	+0.94	+2.20	+0.98	+17.68
USD/KRW	1,110.20	+0.15	+0.28	+1.04	+1.76
<b>COMMODITIES</b>					
Gold(\$/oz)	1,173.25	-0.19	-2.39	-2.46	-0.98
WTI crude <sup>3</sup>	59.55	-0.95	-1.49	+0.00	+11.79
Brent crd <sup>3</sup>	62.00	-0.13	-1.46	-4.79	+11.19
Urals crd <sup>3</sup>	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB <sup>4</sup>	224.35	+0.14	+0.10	-0.54	-2.44

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.

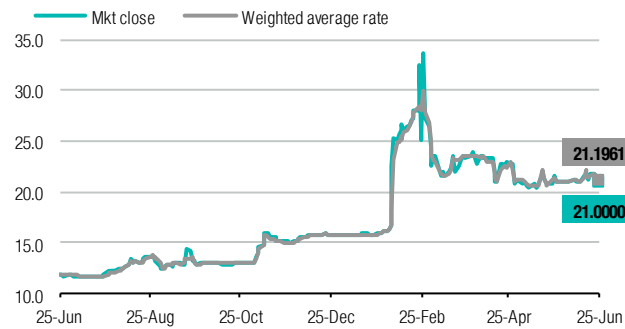
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

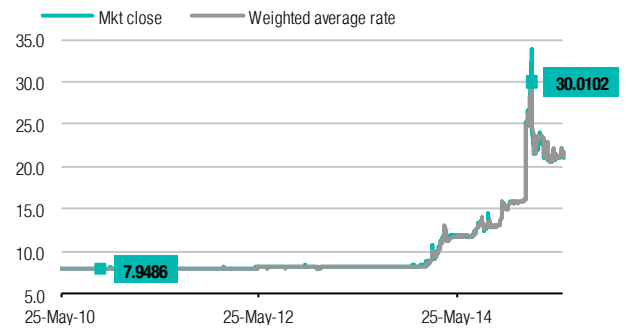
Section on FX market is continued on next page.

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)

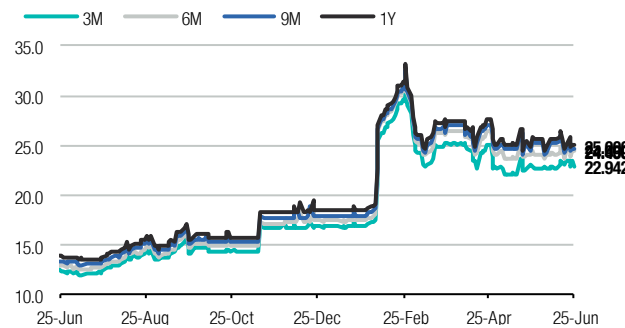


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

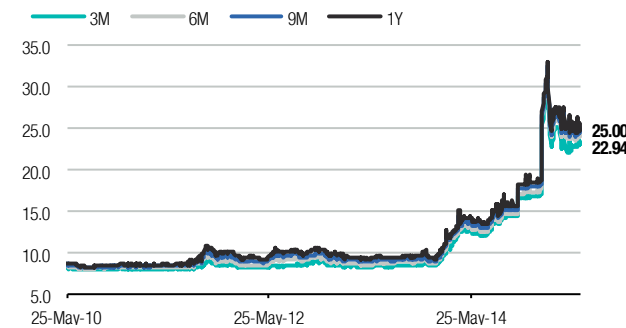


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

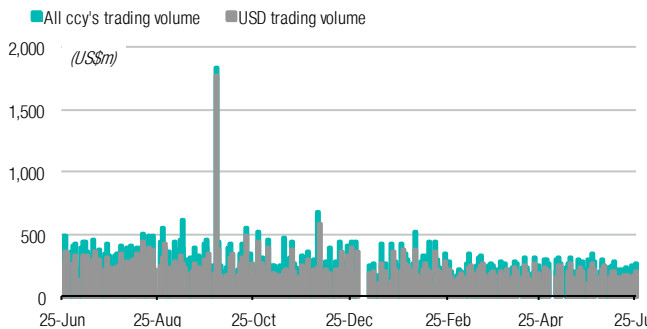


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

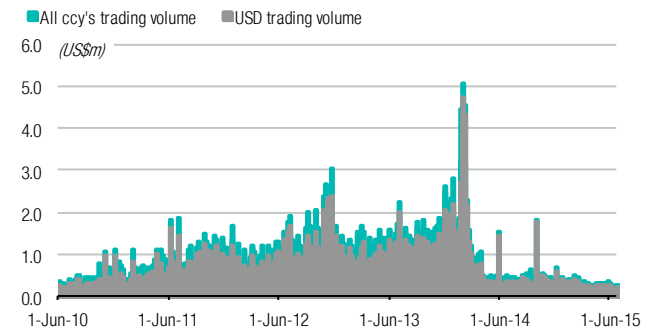


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

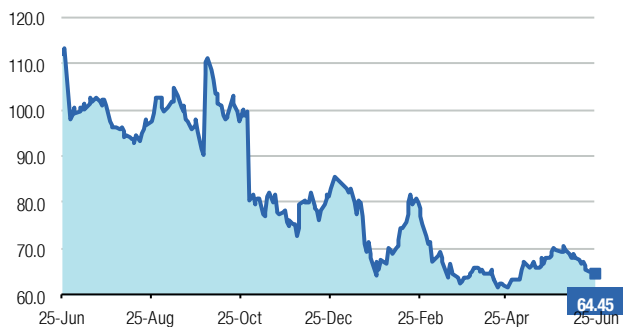


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

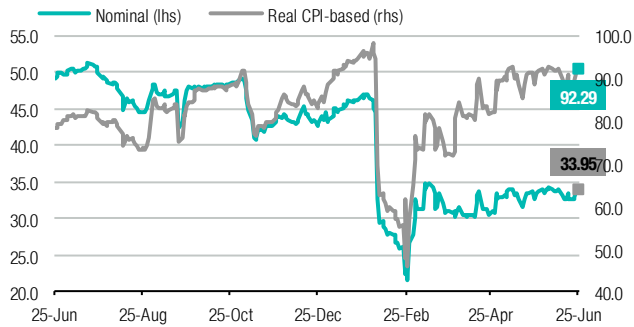


Note: \* 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

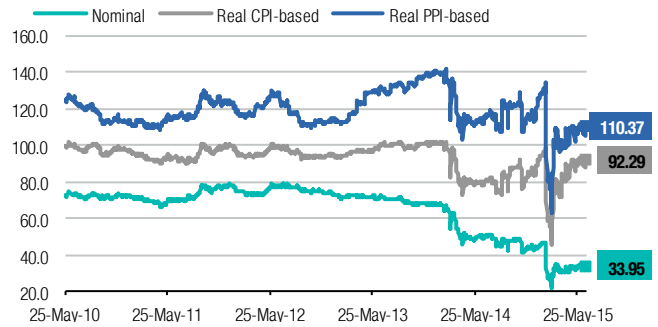
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



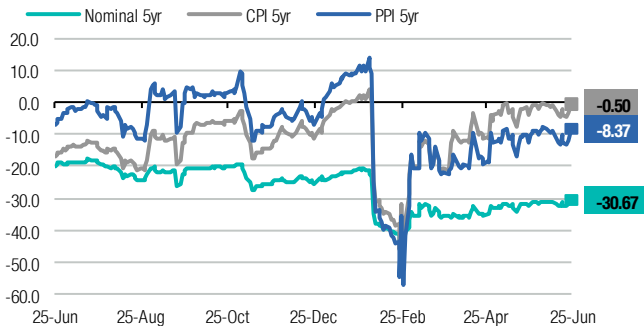
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

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

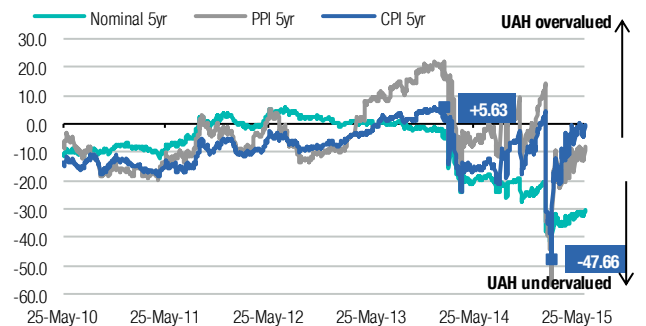


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

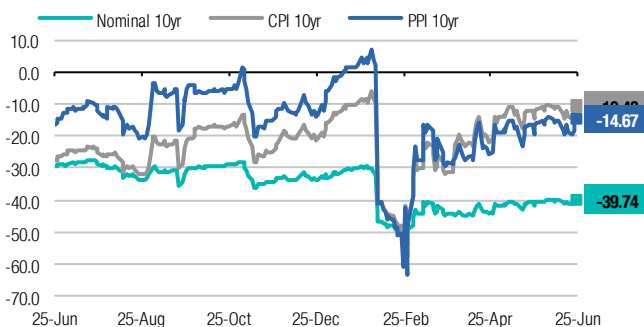


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

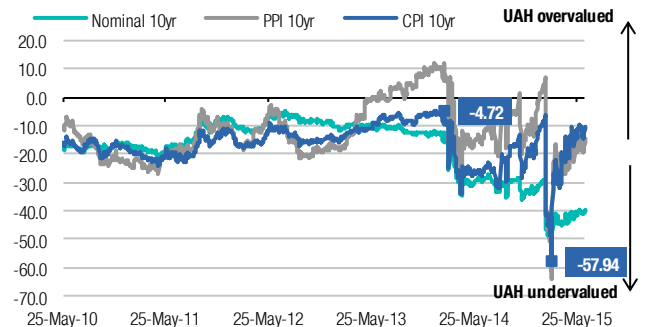


Note: the boxes indicate the high and low values of CPI-based TWI.  
Source: Investment Capital Ukraine LLC.

**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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**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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