


**INVESTMENT CAPITAL UKRAINE**  
 INVESTMENT BANKING

# Daily Insight

Liquidity up; Eurobonds strengthen; UAH holds steady

THURSDAY, 19 JUNE, 2014

RESEARCH INSIGHT

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### UX Index (3 months to 19 Jun 2014)



### Key market indicators (as of 18 Jun 2014)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	11.9650	+1.70	+45.21
USD/UAH (1Y NDF)	14.2000	+2.34	+50.74
EUR/USD	1.3595	+0.35	-1.08
USD/RUB	34.5361	-0.80	+5.07
KievPRIME O/N (%)	5.13	+0bp	-267bp
KievPRIME 1M (%)	17.13	+13bp	+88bp

### BONDS: yields and spreads

Ukraine VAT bond (%)	N/A	-8,900bp	-8,900bp
Ukraine 17, Eurobond (%)	9.09	-67bp	-46bp
Ukraine 22, Eurobond (%)	8.96	-44bp	-39bp
Ukraine 23, Eurobond (%)	8.67	-44bp	-38bp
Ukraine 5Y CDS	806bp	-79bp	-10bp

### EQUITIES

#### Stock market indices

UX (Ukraine)	1,219.39	+1.21	+33.99
MSCI World	427.23	+0.48	+4.57
MSCI EM	1,044.57	+0.10	+4.18
RTS (Russia)	1,362.99	+1.45	-5.53
WIG-20 (Poland)	2,462.36	-0.08	+2.56
S&P 500 (USA)	1,956.98	+0.77	+5.88

#### MOST ACTIVE: Top 3 stocks by value traded (US\$m)

FXPO LN	1.81	38.9% of total <sup>1</sup>
AVGR LI	0.80	17.2%
KER PW	0.60	12.9%

#### GAINERS: Top 3 stocks (in listed currency)

YASK UK	UAH 0.82	+13.19	+53.77
RPT LN	GBp 8.50	+9.68	-34.62
AST PW	PLN 45.99	+4.33	-31.26

#### LOSERS: Top 3 stocks (in listed currency)

Notes: Chg – percentage change, if not otherwise indicated; [1] – total traded volume for stocks listed in Table 1, pp. 2; green- or red-shaded box means gain or loss, respectively, of the index or security.

Sources: Bloomberg, UX, Investment Capital Ukraine LLC.

Table 1. Ukrainian stocks (closing prices as of 18-Jun-2014)

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)	2010	2011E	2012E	2010	2011E	2012E	2010	2011E	2012E	P/B (x)	Debt/Assets (%)
<b>ENERGY</b>																											
Cadogan Petrol...	CAD LN	London	9.13 GBP	+0.0	+7.4	-12.0	-46.3	0.16	35.9	27.2	40.2	14.4	0.0	8.1	0.04	2,248	Neg.	Neg.	Neg.	4.1	8.5	17.0	Neg.	Neg.	Neg.	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	7.29 UAH	+1.0	+17.3	+52.8	+54.6	0.61	225.7	279.0	21.7	49.0	564.3	228.6	0.65	153	5.5	4.9	3.5	0.5	3.8	2.2	0.4	0.3	0.3	1.1	12.2
Coal Energy	CLE PW	Warsaw	1.33 PLN	+0.0	+9.0	+26.7	-65.8	0.44	19.7	114.1	25.0	4.9	11.6	87.7	0.85	117	Neg.	Neg.	4.9	5.1	14.3	3.9	0.9	1.1	1.0	0.2	39.8
Donbasenergo	DOEN UK	Kiev, UX	40.98 UAH	-2.3	-5.2	+48.5	+82.7	3.44	81.3	121.1	14.2	11.6	99.0	49.4	0.57	176	1.8	2.0	2.3	0.5	1.8	1.3	0.3	0.2	0.2	1.5	17.8
JKX Oil & Gas	JKX LN	London	59.25 GBP	+3.0	-0.4	-17.1	+16.7	1.01	173.0	179.5	47.2	81.7	1.4	68.3	0.04	2,449	26.6	15.3	6.2	2.7	2.2	2.0	1.0	0.9	0.8	0.4	5.5
Regal Petroleum	RPT LN	London	8.50 GBP	+9.7	-4.2	-34.6	-55.8	0.14	46.3	19.5	80.9	37.5	0.0	5.0	0.01	10,942	Neg.	23.2	N/A	0.9	0.8	N/A	0.5	0.4	N/A	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	140.00 UAH	-10.8	+3.2	+54.9	+75.0	11.74	150.2	127.8	5.0	7.5	16.6	3.0	0.04	2,522	3.1	N/A	N/A	0.8	N/A	N/A	0.1	N/A	N/A	3.5	0.0
<b>METALLURGY</b>																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.04 UAH	+0.0	+10.3	-9.0	-18.3	0.00	76.3	1,253.7	3.9	3.0	63.7	15.7	0.92	109	Neg.	Neg.	N/A	N/A	Neg.	N/A	1.0	0.7	N/A	N/A	64.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	3.25 UAH	+0.7	+5.8	+9.9	+0.3	0.27	53.2	50.2	4.0	2.1	174.0	22.1	2.02	50	Neg.	29.5	0.8	Neg.	0.9	0.4	0.1	0.1	0.0	0.1	0.0
Azovstal	AZST UK	Kiev, UX	0.78 UAH	+1.8	+8.5	+16.6	+26.8	0.07	275.4	268.3	4.1	11.3	12.5	16.5	0.25	405	Neg.	N/A	Neg.	Neg.	N/A	7.7	0.1	N/A	0.1	0.2	0.0
Ferrexpo PLC	FXPO LN	London	130.50 GBP	+3.2	-6.0	-29.8	-11.4	2.22	1,306.3	1,967.5	22.4	292.6	1,814.7	1,717.9	0.63	160	5.0	5.5	6.4	3.9	4.3	4.7	1.2	1.3	1.3	0.8	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.82 UAH	+13.2	+32.7	+53.8	+38.4	0.07	18.7	19.9	9.0	1.7	24.5	6.0	0.65	154	Neg.	1.6	0.9	0.1	0.7	0.5	0.1	0.1	0.0	0.1	0.1
Yenakievo Steel	ENMZ UK	Kiev, UX	44.29 UAH	+2.7	+28.3	+38.4	+24.8	3.71	39.2	34.8	9.4	3.7	66.3	18.3	0.77	130	6.7	N/A	Neg.	Neg.	N/A	1.1	0.0	N/A	0.0	1.1	0.0
<b>FOOD AND AGRIBUSINESS</b>																											
AgroGeneration	ALAGR FP	EN Paris	1.07 EUR	-1.8	+8.1	-13.7	-31.4	1.46	134.5	161.5	34.0	45.7	7.1	40.1	0.08	1,285	Neg.	N/A	N/A	Neg.	N/A	N/A	2.2	N/A	N/A	1.1	35.9
Agroliga	AGL PW	Warsaw	19.79 PLN	+2.6	+11.8	-23.7	-9.2	6.53	10.0	11.0	16.7	1.7	0.2	7.1	0.35	285	2.3	N/A	N/A	3.2	N/A	N/A	0.5	N/A	N/A	0.8	5.7
Agroton	AGT PW	Warsaw	2.76 PLN	+1.5	+17.4	+41.5	-4.2	0.91	19.7	65.0	26.2	5.2	25.7	229.6	3.67	27	Neg.	2.8	2.5	24.3	6.8	4.1	0.8	0.8	0.8	0.2	28.4
Astarta Holdin...	AST PW	Warsaw	45.99 PLN	+4.3	+16.4	-31.3	-29.2	15.17	379.3	697.1	31.0	117.6	9.9	189.8	0.17	584	10.8	8.2	5.3	9.2	5.3	5.6	1.4	1.4	1.3	1.1	38.2
Avangard	AVGR LI	London Intl	10.15 USD	+0.5	+14.7	-13.6	+10.9	10.15	648.3	879.3	21.7	140.7	799.2	253.6	0.17	580	2.7	2.8	2.8	2.9	2.9	3.0	1.3	1.2	1.1	0.0	17.8
IMC	IMC PW	Warsaw	10.06 PLN	+0.6	+17.0	-17.2	-29.9	3.32	103.9	229.1	23.9	24.8	4.6	69.6	0.37	270	4.0	4.0	2.2	4.2	4.0	3.2	2.0	1.2	0.9	0.7	38.7
Kernel Holding...	KER PW	Warsaw	33.03 PLN	-0.8	+20.9	-13.2	-36.5	10.90	868.2	1,891.5	58.8	510.3	601.7	3,798.8	1.00	100	7.8	16.8	5.7	6.5	7.3	5.5	0.7	0.8	0.7	0.7	30.6
MHP	MHPC LI	London Intl	14.55 USD	+0.0	+2.0	-14.7	-18.8	14.55	1,537.5	2,698.3	22.3	343.2	0.0	1,518.1	0.26	390	9.9	5.7	5.1	6.9	5.6	5.2	1.8	1.8	1.6	2.6	19.6
Milkiland	MLK PW	Warsaw	6.81 PLN	+3.2	+22.7	-45.5	-43.7	2.25	70.2	200.6	20.0	14.0	0.7	11.5	0.14	696	4.8	N/A	3.5	6.1	3.9	3.5	0.4	0.5	0.4	0.3	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	4.50 EUR	+0.0	-8.2	-16.7	+6.0	6.13	650.9	1,382.8	20.0	130.2	6.1	13.6	0.02	5,002	3.7	4.6	7.5	6.0	5.4	5.1	4.0	3.7	3.3	0.7	34.8
Ovostar Union	OVO PW	Warsaw	72.00 PLN	+0.0	+5.1	-28.0	-16.3	23.75	142.5	151.3	25.0	35.6	23.8	19.8	0.10	1,026	4.7	7.1	7.0	4.1	5.8	5.2	1.7	1.8	1.4	1.1	8.5
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Xetra	0.22 EUR	+0.0	+53.6	-32.2	-53.3	0.29	15.2	174.5	13.1	2.0	0.0	0.2	0.01	9,800	Neg.	N/A	N/A	Neg.	N/A	N/A	8.0	N/A	N/A	0.1	44.1
<b>FINANCIAL SERVICES</b>																											
Forum Bank	FORM UK	Kiev, UX	0.09 UAH	-50.0	-86.0	-88.4	-84.3	0.01	4.4	N/A	5.5	0.2	0.7	0.2	0.59	170	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0	18.6
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.15 UAH	+1.4	-4.5	+36.2	+51.4	0.01	388.7	N/A	3.8	14.8	310.3	86.2	1.08	92	4.6	Neg.	13.0	N/A	N/A	N/A	N/A	N/A	N/A	0.6	28.3
Ukrsotsbank	USCB UK	Kiev, UX	0.17 UAH	+0.1	+5.5	-11.4	+30.2	0.01	252.9	N/A	4.5	11.3	21.5	5.9	0.11	934	Neg.	14.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	30.9

**Table 1. Ukrainian stocks (closing prices as of 18-Jun-2014)**

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)	2010	2011E	2012E	2010	2011E	2012E	2010	2011E	2012E	P/B (x)

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; \*\*\* -- means that P/E ratio is above 10,000x.

Sources: Bloomberg, Investment Capital Ukraine LLC.

# Bonds: News & Comments

## Liquidity recovers slightly

Broader banking sector liquidity rose UAH0.62bn to UAH42.83bn yesterday as banks' correspondent accounts with the NBU increased UAH0.89bn to UAH29.60bn while total CDs outstanding slid UAH0.17bn to UAH8.41bn and total local currency debt repayments scheduled for the next 30 days remained steady at UAH4.82bn..

KyivPrime interest rates slightly diverged: the KyivPrime ON interest rate remained steady at 5.13% while the KyivPrime 1M interest rate rose 13bp to 17.13%.

**Investment implications: Yesterday's liquidity increase was the result of Tuesday's deals and cash flows rather than by NBU or MoF injections. To the contrary, the NBU decreased the volume of its ON loans. The decline in CDs outstanding was insignificant and had no impact on liquidity.**

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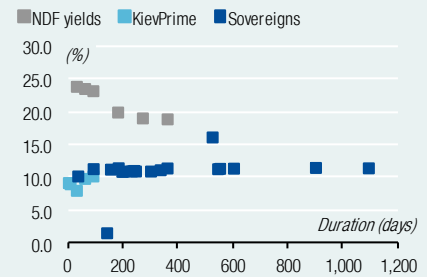
## Eurobonds rebound

News that Ukraine will not use Russian gas that is transported through Ukraine to Europe had a positive impact on market sentiment. Moreover, the new president's proposed appointments of several government officials are anticipated to be approved by the parliament, which the market views favorably as well. As a result, the yield curve adjusted to the range of 8.33-9.10%, as UKRAIN 6.875% '15 declined 74bp to 8.88%, UKRAIN 9.25% '17 was down 67bp to 9.10%, UKRAIN 7.95% '21 slid 44bp to 8.63% and UKRAIN 7.80% '22 slid 44bp to 8.96%, while UKRAIN 7.50% '23 declined 43bp to 8.67%. The 5-year CDS declined to 806bp.

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### Yield curve of the local bond market

(as of market close on 18 Jun 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

### Bond market indicators (as of 18 Jun 2014)

	Last	Daily chg (%)	Weekly chg (%)	MoM chg (%)	YTD chg (%)
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#### MONEY MARKET KIEV PRIME RATES (%)

0/n	5.13	+0bp	+3bp	-12bp	-267bp
1wk	8.13	-14bp	+11bp	-197bp	-167bp
1m	17.13	+13bp	+13bp	-97bp	+88bp
2m	18.00	+0bp	+0bp	-10bp	+160bp
3m	18.00	+0bp	+0bp	-10bp	+200bp

#### LIQUIDITY WIDE MEASUREMENT (UAHm)

CB acc's <sup>1</sup>	29,599	+2.74	+0.49	+4.89	-9.49
CDs <sup>2</sup>	15,576	+5.73	+29.59	+25.47	+924.7
Sovgns <sup>3</sup>	4,022	-16.72	-7.94	-3.84	+169.0
<b>Total</b>	<b>49,197</b>	<b>+1.71</b>	<b>+7.32</b>	<b>+9.78</b>	<b>+37.74</b>

#### HOLDERS OF UAH SOVEREIGN BONDS (UAHm)

C.bank	185,666	+0.00	-0.85	+6.21	+28.18
Banks	84,675	+0.04	+0.09	-3.53	+5.62
Resid's <sup>4</sup>	10,268	+0.17	-8.11	-4.05	-17.17
Non-res <sup>5</sup>	16,122	+0.09	-0.31	-0.46	+37.81
<b>Total</b>	<b>296,730</b>	<b>+0.02</b>	<b>-0.83</b>	<b>+2.50</b>	<b>+19.11</b>

#### NDF IMPLIED YIELDS (%)

3m	17.30	-557bp	-264bp	-437bp	+515bp
6m	18.02	-200bp	-60bp	-219bp	+461bp
9m	18.92	-3bp	+88bp	-90bp	+491bp
1yr	19.33	+75bp	+141bp	-3bp	+435bp

#### LOCAL CURRENCY UAH SOVEREIGN BOND YIELDS (%)

Mar '13	N/A	-52ppt	+0bp	+0bp	+0bp
Jan '14	N/A	+320bp	+0bp	+0bp	-676bp
Aug '15 <sup>6</sup>	N/A	-89ppt	+0bp	+0bp	-89ppt

#### EUROBONDS USD SOVEREIGN BOND YIELDS (%)

CDS 5yr	806	-79bp	+48bp	-315bp	-10bp
Jun '16	9.03	-75bp	+98bp	-318bp	+14bp
Jul '17	9.09	-67bp	+33bp	-293bp	-46bp
Sep '20	8.32	-69bp	+1bp	-203bp	-87bp
Sep '21	8.63	-44bp	+31bp	-158bp	-59bp
Sep '22	8.96	-44bp	+25bp	-105bp	-39bp
Feb '23	8.67	-44bp	+15bp	-106bp	-38bp

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

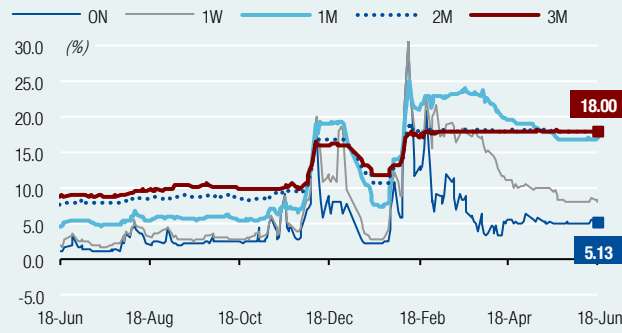


Chart 2. UAH NDF implied yields (%), last 12-month period



Chart 3. UAH sovereign yield curve (%) as of 18 Jun 2014

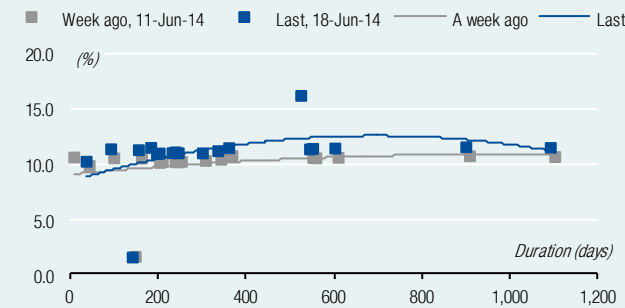


Chart 4. USD sovereign yield curve (%) as of 18 Jun 2014

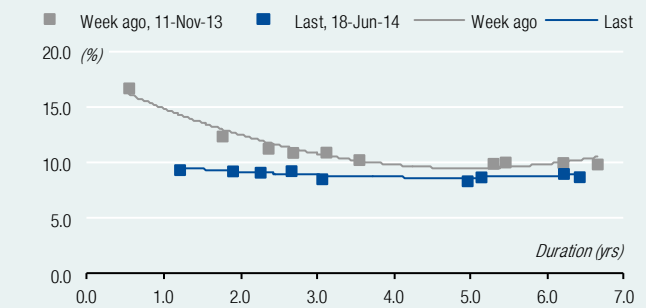


Chart 5. Banking sector liquidity (UAHbn), last 12-month period

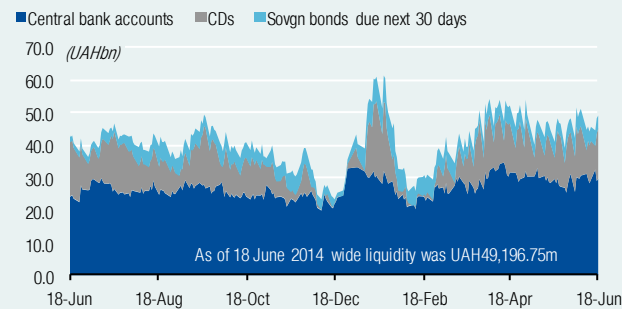


Chart 6. Breakdown of liquidity pool (%) as of 18 Jun 2014

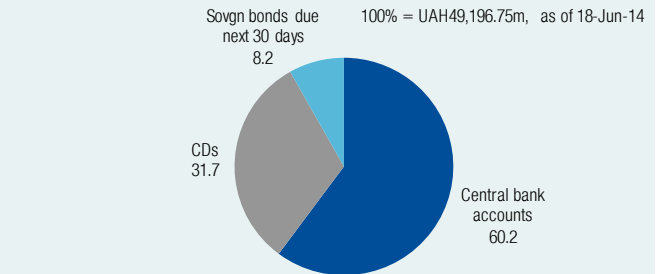


Chart 7. Holders of sovereign bonds (UAHbn), last 12 months

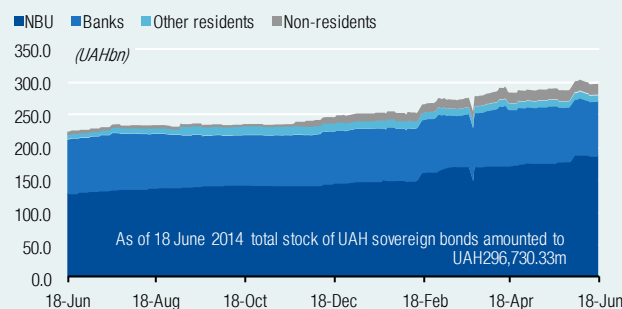
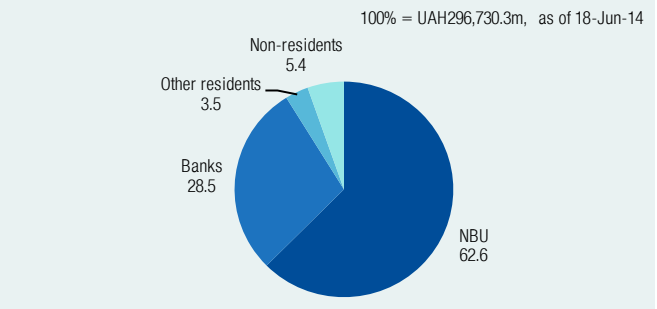


Chart 8. Domestic sovereign debt (%) as of 18 Jun 2014



# FX: News & Comments

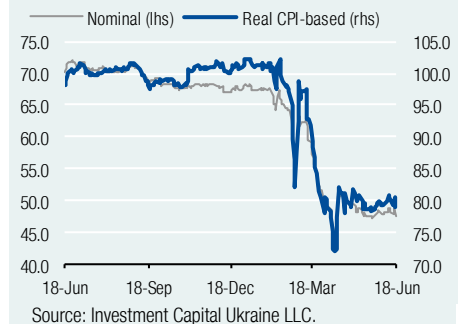
## UAH holds steady as president reshuffles some officials

The hryvnia held steady at 12/USD, down 1.70% on US\$229.38m in trading yesterday as the market appeared to approve of President Poroshenko's proposed candidates to Parliament for the posts of foreign minister, central bank governor and general prosecutor. Meanwhile, geopolitics remain complicated as Poroshenko announced a series of peace initiatives to call a cease fire and begin negotiations specifically with Donbass representatives and not with the militants. Amidst these developments, the media reported more Ukrainian army fatalities from militant fighting.

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### ICU's UAH trade-weighted indices

(Last 12-month history to 19 Jun 2014)



### FX market indicators (as of 18 Jun 2014)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	11.9650	+1.70	+2.40	+0.04	+45.21
NBU avg	11.8276	+0.57	+1.69	+0.62	+45.11
Ttl vlm <sup>1</sup>	342.31	+4.60	-24.40	-0.83	-87.78
\$ volume <sup>2</sup>	229.38	+5.20	-29.85	-4.29	-89.62
NDF 3M	12.4750	+0.36	+1.75	-0.99	+47.02
NDF 6M	13.0250	+0.77	+2.12	-0.95	+48.35
NDF 1Y	14.2000	+2.34	+3.61	+0.00	+50.74
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	47.607	-2.12	-2.20	+0.16	-29.51
UAH real CPI	78.778	-2.12	-2.20	+0.16	-22.06
UAH real PPI	112.939	-2.12	-2.20	+0.16	-18.62
USD nom'l	80.584	-0.06	-0.25	+0.68	+0.69
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	34.5361	-0.80	+0.47	-0.63	+5.07
EUR/USD	1.3595	+0.35	+0.47	-0.72	-1.08
USD/CNY	6.2311	+0.08	+0.05	-0.04	+2.92
USD/PLN	3.0359	-0.75	+0.03	-0.81	+0.43
USD/TRY	2.1254	-1.08	+0.42	+1.28	-1.06
USD/BYR	10,170.00	-0.10	-0.10	+1.37	+6.60
USD/KZT	183.4500	-0.05	-0.04	+0.76	+18.91
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	101.9300	-0.22	-0.14	+0.42	-3.21
GBP/USD	1.6994	+0.17	+1.23	+1.09	+2.64
USD/CHF	0.8957	-0.41	-0.47	+0.34	+0.31
AUD/USD	0.9408	+0.76	+0.27	+0.51	+5.51
USD/CAD	1.0836	-0.23	-0.29	-0.23	+2.01
USD/BRL	2.2276	-1.52	-0.27	+0.58	-5.69
USD/KRW	1,022.46	+0.06	+0.66	-0.17	-2.60
<b>COMMODITIES</b>					
Gold(\$/oz)	1,277.68	+0.55	+1.32	-1.22	+5.97
WTI crude <sup>3</sup>	105.97	-0.37	+1.50	+3.87	+7.67
Brent crd <sup>3</sup>	114.15	+0.75	+3.36	+3.52	+3.00
Urals crd <sup>3</sup>	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB <sup>4</sup>	309.40	+0.12	+1.37	+1.14	+10.43

Readers may follow the ICU trade-weighted indices of the local-currency, the hryvnia (UAH), on the ICU website ([download history](#)) and Bloomberg (type: ALLX UTWI <GO>).

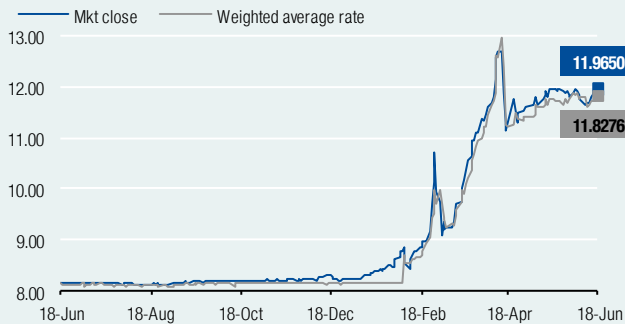
Section on FX market is continued on next page.

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.

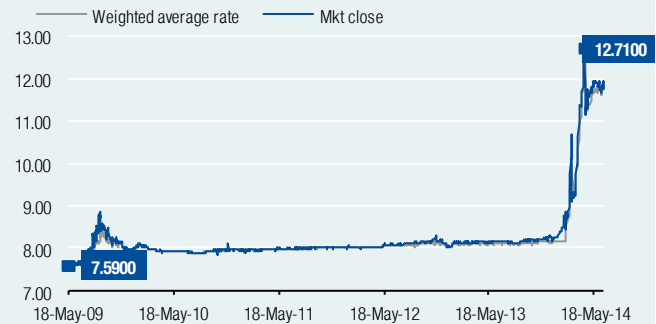
Sources: Bloomberg, Investment Capital Ukraine LLC.

### 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.

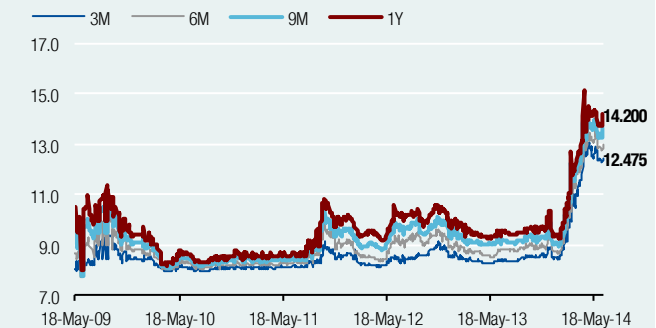


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

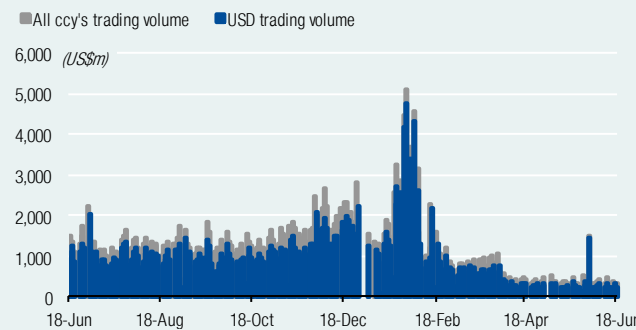


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

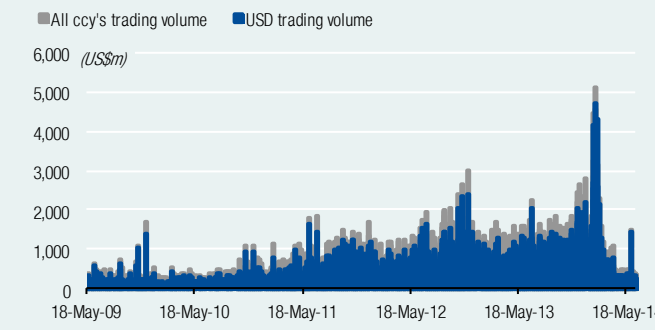


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

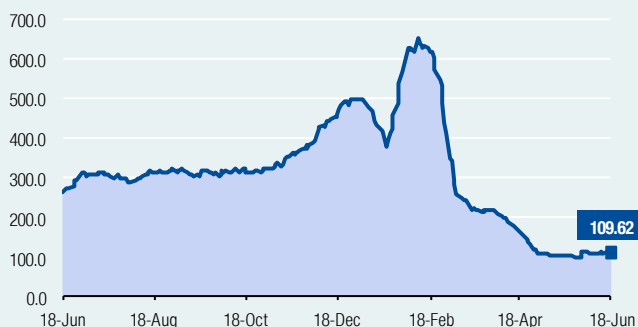


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)**



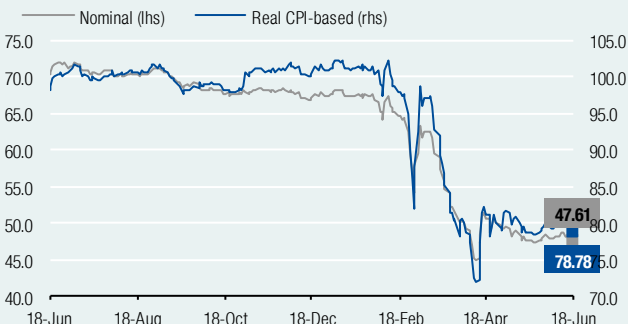
Note: \* 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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

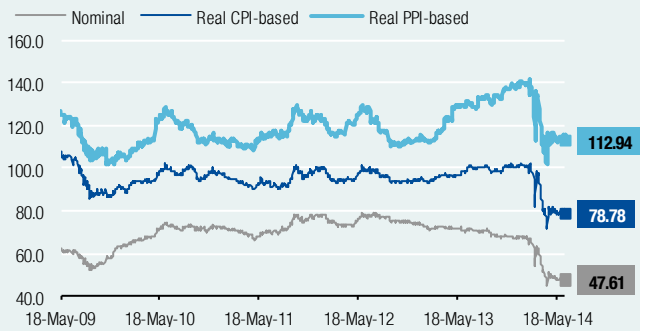
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August 2013.

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



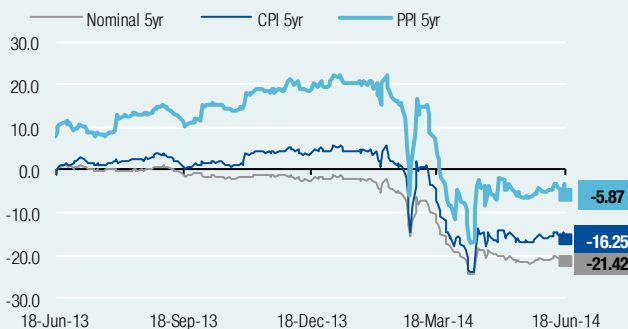
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

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

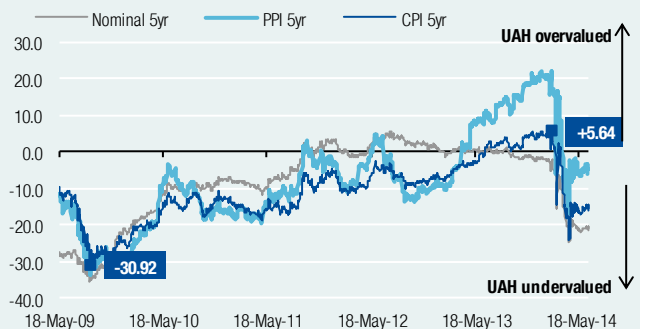


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

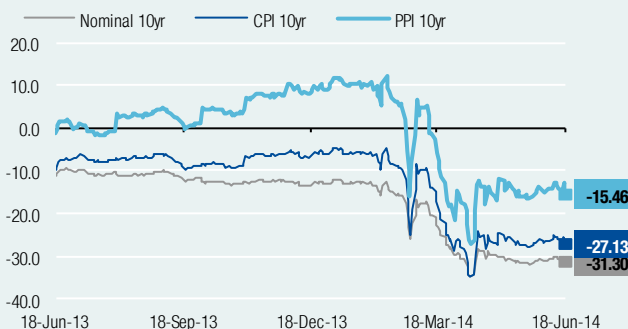


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.



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

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