



INVESTMENT CAPITAL UKRAINE
INVESTMENT BANKING

Daily Insight

NBU raises its official rate; UAH trades flat;
Liquidity increases slightly; YTM's increase

THURSDAY, 17 JULY, 2014

RESEARCH INSIGHT

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UX Index (3 months to 17 Jul 2014)



Key market indicators (as of 16 Jul 2014)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	11.7250	+0.13	+42.29
USD/UAH (1Y NDF)	13.5250	+0.00	+43.58
EUR/USD	1.3525	-0.32	-1.59
USD/RUB	34.4148	+0.07	+4.70
KievPRIME O/N (%)	5.10	+0bp	-270bp
KievPRIME 1M (%)	16.40	-10bp	+15bp
BONDS: yields and spreads			
Ukraine VAT bond (%)	15.55	+0bp	-8,591bp
Ukraine 17, Eurobond (%)	8.21	+12bp	-135bp
Ukraine 22, Eurobond (%)	8.40	+0bp	-94bp
Ukraine 23, Eurobond (%)	8.34	-1bp	-70bp
Ukraine 5Y CDS	775bp	+4bp	-41bp
EQUITIES			
Stock market indices			
UX (Ukraine)	1,242.79	-0.95	+36.56
MSCI World	431.23	+0.52	+5.55
MSCI EM	1,066.83	+0.05	+6.40
RTS (Russia)	1,350.52	-0.12	-6.39
WIG-20 (Poland)	2,397.00	+0.36	-0.17
S&P 500 (USA)	1,981.57	+0.42	+7.21
MOST ACTIVE: Top 3 stocks by value traded (US\$m)			
MHPC LI	1.80	30.7% of total ¹	
FXPO LN	1.29	22.1%	
KER PW	1.11	18.9%	
GAINERS: Top 3 stocks (in listed currency)			
AGL PW	PLN 19.39	+4.81	-25.22
MHPC LI	USD 15.15	+1.34	-11.14
USCB UK	UAH 0.17	+1.08	-10.40
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. 3; green- or red-shaded box means gain or loss, respectively, of the index or security.

Sources: Bloomberg, UX, Investment Capital Ukraine LLC.

Economics: News & Comments

NBU raises its official rate by 300bp

Citing accelerated inflation as motivation, the NBU increased its official rate from 9.5% to 12.5% yesterday. Officials also stated the progress with the IMF programme and early signs of deposits returning to the banks should bolster confidence in the banking sector. In our view, the move is positive as it indicates that the NBU is finally turning its attention to dealing with rising inflation rather than supporting banks. Headline CPI rose to 11.9% YoY from 10.8% YoY a month ago as PPI reached 15.8% YoY, up 7ppt over June. If left untamed, rising inflation would quickly erode the competitiveness that Ukraine gained in March-April after the steep nominal devaluation of the UAH. This would have a negative impact on exports which would ultimately weaken the local currency. Any threat of further nominal devaluation or, even worse, a potential run on bank deposits, should be averted if the NBU successfully reduces inflation over the next few months.

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Table 1. Ukrainian stocks (closing prices as of 16-Jul-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 (%)
ENERGY																											
Cadogan Petrol...	CAD LN	London	11.13 GBP	+0.0	+21.9	+7.2	-28.2	0.19	44.1	-19.0	40.2	17.7	1.9	10.5	0.07	1,427	Neg.	Neg.	Neg.	2.9	N/A	N/A	Neg.	Neg.	Neg.	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	7.83 UAH	-2.1	+8.6	+64.3	+62.5	0.67	245.7	299.6	21.7	53.3	653.4	386.6	1.14	88	5.9	5.3	3.7	0.5	4.0	2.3	0.5	0.4	0.3	1.2	12.2
Coal Energy	CLE PW	Warsaw	1.08 PLN	-3.6	-18.8	+2.9	-47.1	0.35	15.9	110.2	25.0	4.0	15.8	34.5	0.47	211	Neg.	Neg.	4.0	4.9	13.8	3.8	0.9	1.1	1.0	0.2	39.8
Donbasenergo	DOEN UK	Kiev, UX	38.60 UAH	-0.4	-7.9	+39.9	+59.0	3.28	77.5	117.9	14.2	11.0	73.5	64.8	0.75	133	1.7	1.7	2.2	0.5	1.6	1.3	0.2	0.2	0.2	1.4	17.8
JKX Oil & Gas	JKX LN	London	55.25 GBP	-2.6	-3.9	-22.7	+7.8	0.95	162.6	169.1	47.2	76.8	64.6	35.5	0.05	2,130	25.0	14.3	5.8	2.5	2.1	1.9	0.9	0.9	0.8	0.3	5.5
Regal Petroleum	RPT LN	London	9.13 GBP	+0.0	+17.7	-29.8	-43.8	0.16	50.1	23.3	80.9	40.6	0.8	6.8	0.02	4,065	Neg.	25.1	N/A	1.1	0.9	N/A	0.6	0.5	N/A	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	142.20 UAH	+0.0	-9.4	+57.3	+75.6	12.08	154.5	131.8	5.0	7.7	0.1	3.2	0.07	1,531	3.1	N/A	N/A	0.9	N/A	N/A	0.1	N/A	N/A	3.5	0.0
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.04 UAH	-0.6	+1.9	-7.2	-14.9	0.00	78.8	1,271.0	3.9	3.0	57.3	29.4	1.77	56	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	3.16 UAH	+0.0	-2.1	+6.8	-1.8	0.27	52.4	49.3	4.0	2.1	28.1	28.2	1.90	53	Neg.	28.7	0.8	Neg.	0.9	0.4	0.1	0.1	0.0	0.1	0.0
Azovstal	AZST UK	Kiev, UX	0.81 UAH	+0.2	+5.1	+20.3	+27.3	0.07	287.8	280.7	4.1	11.8	13.0	18.2	0.11	897	Neg.	N/A	Neg.	Neg.	N/A	7.9	0.1	N/A	0.1	0.2	0.0
Ferrexpo PLC	FXPO LN	London	143.00 GBP	+0.4	+13.0	-23.1	-10.8	2.45	1,442.6	2,103.8	22.4	323.2	1,291.0	1,761.5	0.63	159	5.5	6.9	8.2	4.2	4.8	5.4	1.3	1.4	1.4	0.9	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.68 UAH	-2.9	-5.6	+28.3	+18.7	0.06	15.8	17.0	9.0	1.4	0.1	7.2	0.58	173	Neg.	1.3	0.7	0.1	0.6	0.4	0.1	0.0	0.0	0.1	0.1
Yenakievo Steel	ENMZ UK	Kiev, UX	42.00 UAH	-0.7	-2.6	+31.2	+18.3	3.57	37.6	33.2	9.4	3.5	36.1	32.8	1.66	60	6.4	N/A	Neg.	Neg.	N/A	1.0	0.0	N/A	0.0	1.0	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.99 EUR	-1.0	-9.2	-20.2	-36.1	1.34	123.6	150.4	34.0	42.0	5.2	26.6	0.02	4,315	Neg.	N/A	N/A	Neg.	N/A	N/A	2.1	N/A	N/A	1.1	35.9
Agroliga	AGL PW	Warsaw	19.39 PLN	+4.8	+0.5	-25.2	-19.9	6.34	9.8	10.7	16.7	1.6	0.1	3.7	0.05	2,181	2.3	N/A	N/A	3.1	N/A	N/A	0.5	N/A	N/A	0.8	5.7
Agroton	AGT PW	Warsaw	2.78 PLN	+0.4	+2.2	+42.6	+73.8	0.91	19.7	65.0	26.2	5.2	79.0	147.6	2.74	36	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	40.66 PLN	+0.4	-7.8	-39.2	-37.1	13.30	332.4	648.1	31.0	103.1	1.8	165.3	0.18	546	9.6	7.3	4.7	8.6	4.9	5.3	1.3	1.3	1.2	0.9	38.2
Avangard	AVGR LI	London Intl	9.50 USD	+0.1	-5.9	-19.1	+11.8	9.50	606.8	837.7	21.7	131.7	139.4	208.8	0.22	465	2.6	2.7	2.6	2.8	2.8	2.8	1.3	1.1	1.1	0.0	17.8
IMC	IMC PW	Warsaw	9.20 PLN	-1.3	-8.0	-24.3	-41.7	3.01	94.2	245.1	23.9	22.5	19.9	81.9	0.56	178	3.6	8.6	2.0	4.5	4.2	3.4	2.1	1.2	1.0	0.6	38.7
Kernel Holding...	KER PW	Warsaw	30.30 PLN	+0.3	-9.0	-20.4	-43.4	9.91	789.6	1,696.2	58.8	464.1	1,106.9	3,043.4	0.35	287	7.1	15.3	5.1	5.8	6.5	5.0	0.6	0.7	0.6	0.7	30.6
MHP	MHPC LI	London Intl	15.15 USD	+1.3	+4.1	-11.1	-14.0	15.15	1,600.9	2,761.7	22.3	357.3	1,798.2	1,681.3	0.42	238	10.3	5.9	5.3	7.1	5.7	5.2	1.8	1.8	1.6	2.8	47.0
Milkiland	MLK PW	Warsaw	5.96 PLN	-4.6	-9.7	-52.3	-43.0	1.95	60.9	190.5	20.0	12.2	7.6	9.8	0.05	2,031	4.2	N/A	3.1	5.7	3.7	3.4	0.4	0.4	0.4	0.3	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	4.50 EUR	+0.0	-4.7	-16.7	-2.6	6.08	646.5	1,434.7	20.0	129.3	4.1	15.1	0.01	18,553	7.3	7.4	2.9	8.7	5.3	4.8	2.9	3.4	3.3	0.0	45.3
Ovostar Union	OVO PW	Warsaw	69.00 PLN	+0.0	-4.2	-31.0	-3.9	22.57	135.4	143.0	25.0	33.8	8.2	24.4	0.12	850	4.4	6.6	6.3	3.9	4.8	4.2	1.6	1.7	1.3	1.0	8.5
CONSTRUCTION																											
TMM	TR61 GF	Xetra	0.19 EUR	+0.0	-11.2	-39.7	-47.5	0.26	13.4	172.7	13.1	1.8	0.0	0.2	0.01	8,639	Neg.	N/A	N/A	Neg.	N/A	N/A	3.8	N/A	N/A	0.1	44.1
FINANCIAL SERVICES																											
Forum Bank	FORM UK	Kiev, UX	0.31 UAH	+0.0	N/A	N/A	N/A	0.03	15.6	N/A	5.5	0.9	0.1	N/A	N/A	N/A	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1	18.6
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.15 UAH	-0.6	-2.0	+31.6	+49.7	0.01	380.4	N/A	3.8	14.5	411.7	175.6	2.26	44	4.4	Neg.	12.6	N/A	N/A	N/A	N/A	N/A	N/A	0.6	28.3
Ukrsotsbank	USCB UK	Kiev, UX	0.17 UAH	+1.1	+1.1	-10.4	+20.0	0.01	258.8	N/A	4.5	11.6	33.8	13.7	0.21	471	Neg.	14.2	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 16-Jul-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: mIn - 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 increases slightly

Banks' correspondent accounts with the NBU recovered UAH1.26bn to UAH29.45bn while total CDs outstanding slid UAH0.37bn to UAH10.63bn and total local currency debt repayments scheduled for the next 30 days remained steady at UAH3.83bn. As a result, broader banking sector liquidity rose UAH0.89bn.

KyivPrime interest rates slightly diverged yesterday: the KyivPrime ON interest rate remained steady at 5.10% while the KyivPrime 1M interest rate declined 10bp to 16.40%.

Investment implications: Yesterday's indicators' changes were caused by neither the NBU or the MoF by different inflows as there were no bond purchases or loan issues that would have corresponded with debt repayments. At the same time, we could see a slight reallocation of funds today due to debt repayments and new bond purchases that might have occurred yesterday.

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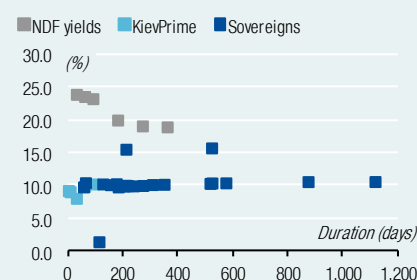
YTM's continue to increase

US Treasury YTM's were very volatile yesterday with no correlation. During the trading session, 5-year bonds rose significantly while 10-year bonds fell to previous levels and declined slightly at the close. Ukrainian Eurobonds traded erratically as well but mostly rose after spreads slightly widened. At the close, the yield curve adjusted to the range of 7.79-8.59%, as UKRAIN 6.875% '15 rose 10bp to 7.79%, UKRAIN 9.25% '17 rose 11bp to 8.21%, UKRAIN 7.95% '21 rose 4bp to 8.59%, while UKRAIN 7.80% '22 and UKRAIN 7.50% '23 slid 1bp to 8.41% and 8.35%, respectively. The 5-year CDS rose to 775bp.

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Yield curve of the local bond market

(as of market close on 16 Jul 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 16 Jul 2014)

	Last	Daily	Weekly	MoM	YTD
		chg (%)	chg (%)	chg (%)	chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
0/n	5.10	+0bp	+0bp	-28bp	-270bp
1wk	6.62	+5bp	-72bp	-188bp	-318bp
1m	16.40	-10bp	-70bp	-60bp	+15bp
2m	18.00	+0bp	+0bp	+0bp	+160bp
3m	18.00	+0bp	+0bp	+0bp	+200bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's ¹	29,446	+4.46	-0.09	-9.01	-9.96
CDs ²	10,626	-3.36	+0.70	+42.57	+1,407.2
Sovgns ³	3,381	-11.99	-3.98	-29.99	+126.2
Total	43,452	+0.99	-0.21	-2.67	+24.50
HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	189,801	+0.00	+1.06	+2.23	+31.03
Banks	83,748	+0.06	+0.71	-0.95	+4.47
Resid's ⁴	13,205	-0.06	-8.44	+28.61	+6.52
Non-res ⁵	16,239	+0.08	-0.06	+0.96	+38.81
Total	302,994	+0.02	+0.45	+2.17	+21.63
NDF IMPLIED YIELDS (%)					
3m	13.03	+84bp	+445bp	-198bp	+89bp
6m	14.79	+15bp	+120bp	-119bp	+138bp
9m	15.24	-19bp	+80bp	-94bp	+123bp
1yr	15.99	-15bp	+60bp	-45bp	+100bp
LOCAL CURRENCY UAH SOVEREIGN BOND YIELDS (%)					
Mar '13	N/A	-52ppt	+0bp	+0bp	+0bp
Jan '14	N/A	+320bp	+0bp	+0bp	-676bp
Aug '15 ⁶	15.55	+0bp	-40bp	+309bp	-86ppt
EUROBONDS USD SOVEREIGN BOND YIELDS (%)					
CDS 5yr	775	+4bp	+15bp	-110bp	-41bp
Jun '16	8.01	+12bp	+28bp	-192bp	-88bp
Jul '17	8.21	+12bp	+15bp	-152bp	-135bp
Sep '20	8.40	+0bp	+6bp	-58bp	-80bp
Sep '21	8.59	+5bp	+15bp	-44bp	-63bp
Sep '22	8.40	+0bp	+12bp	-95bp	-94bp
Feb '23	8.34	-1bp	+4bp	-72bp	-70bp

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

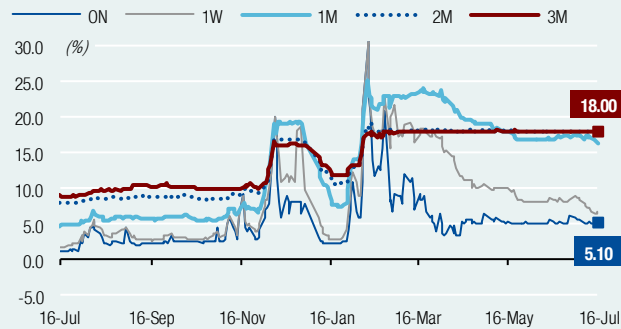


Chart 2. UAH NDF implied yields (%), last 12-month period

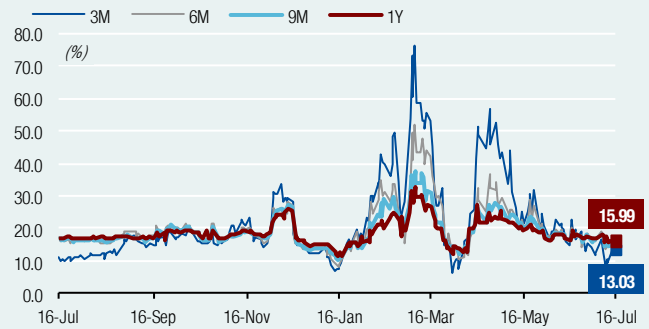


Chart 3. UAH sovereign yield curve (%) as of 16 Jul 2014

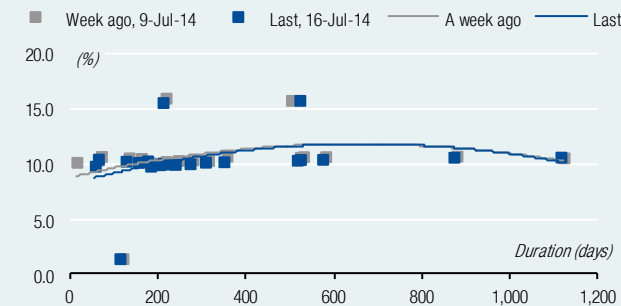


Chart 4. USD sovereign yield curve (%) as of 16 Jul 2014

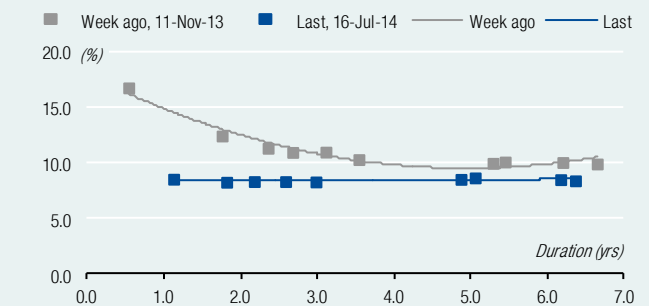


Chart 5. Banking sector liquidity (UAHbn), last 12-month period

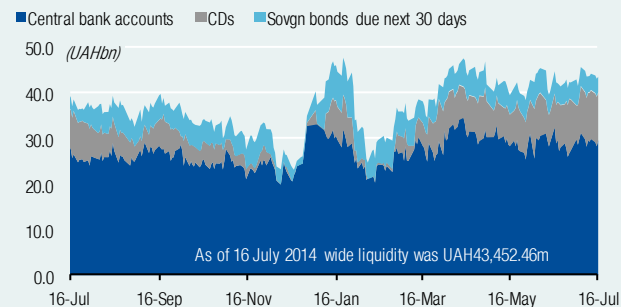


Chart 6. Breakdown of liquidity pool (%) as of 16 Jul 2014

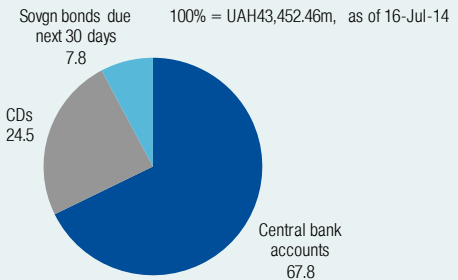


Chart 7. Holders of sovereign bonds (UAHbn), last 12 months

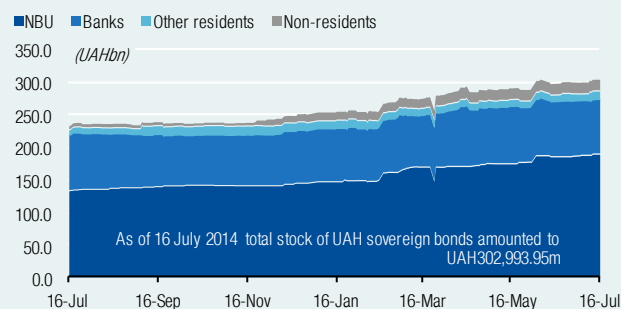
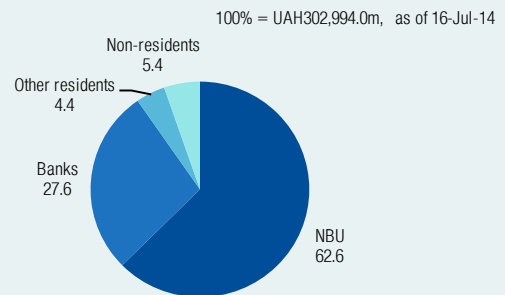


Chart 8. Domestic sovereign debt (%) as of 16 Jul 2014



FX: News & Comments

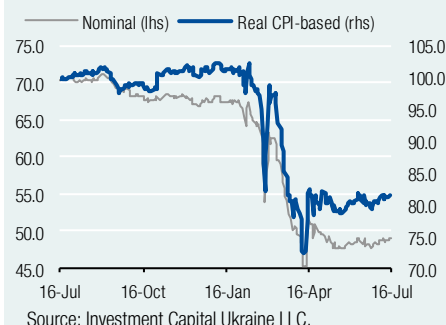
UAH trades flat despite the NBU's rate increase

The currency was mostly flat yesterday on just US\$228.70m turnover. While the US dollar rose for the second consecutive day, the hryvnia's real TWI decreased 0.01%.

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ICU's UAH trade-weighted indices

(Last 12-month history to 17 Jul 2014)



FX market indicators (as of 16 Jul 2014)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	11.7250	+0.13	+0.00	-1.64	+42.29
NBU avg	11.7181	+0.09	+0.51	-0.26	+43.77
Tt vlm ¹	340.27	-26.11	-6.42	-11.98	-87.86
\$ volume ²	228.70	-35.91	-15.19	-25.27	-89.66
NDF 3M	12.1000	+0.33	+1.09	-2.10	+42.60
NDF 6M	12.5750	+0.20	+0.56	-2.18	+43.22
NDF 1Y	13.5250	+0.00	+0.52	-2.03	+43.58
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	48.889	-0.01	+0.77	+1.57	-27.61
UAH real CPI	81.461	-0.01	+0.77	+1.57	-19.40
UAH real PPI	119.801	-0.01	+0.77	+1.57	-13.68
USD nom'l	80.559	+0.21	+0.71	+0.11	+0.65
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	34.4148	+0.07	+1.26	-0.68	+4.70
EUR/USD	1.3525	-0.32	-0.86	-0.36	-1.59
USD/CNY	6.2049	-0.05	+0.10	-0.31	+2.49
USD/PLN	3.0562	+0.23	+1.06	+0.19	+1.10
USD/TRY	2.1193	-0.19	+0.19	-1.12	-1.35
USD/BYR	10,265.00	+0.00	-0.05	+0.83	+7.60
USD/KZT	183.5200	-0.04	-0.01	+0.00	+18.96
OTHER MAJOR CURRENCIES					
USD/JPY	101.6700	-0.01	+0.03	-0.16	-3.46
GBP/USD	1.7137	-0.03	-0.12	+0.90	+3.50
USD/CHF	0.8984	+0.30	+0.83	+0.14	+0.62
AUD/USD	0.9368	-0.02	-0.49	-0.35	+5.06
USD/CAD	1.0741	-0.17	+0.84	-0.96	+1.11
USD/BRL	2.2235	+0.20	+0.48	-0.51	-5.87
USD/KRW	1,031.98	+0.45	+1.95	+1.18	-1.70
COMMODITIES					
Gold(\$/oz)	1,299.20	+0.40	-2.15	+2.15	+7.76
WTI crude ³	101.20	+1.24	-1.07	-5.33	+2.82
Brent crd ³	105.29	+0.04	-1.95	-6.72	-4.99
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	296.79	+0.26	-1.46	-4.21	+5.93

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>).

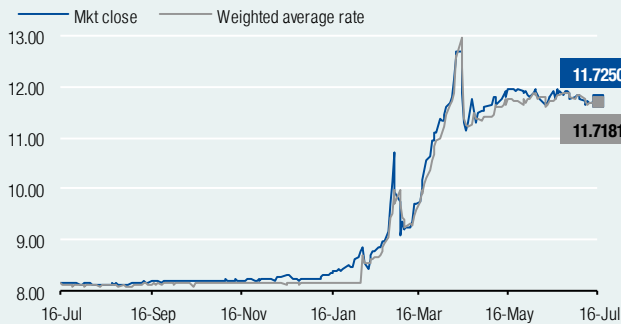
Section on FX market is continued on next page.

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.

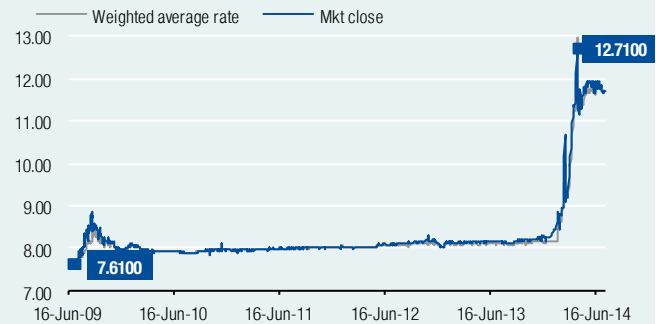
Sources: Bloomberg, Investment Capital Ukraine LLC.

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.

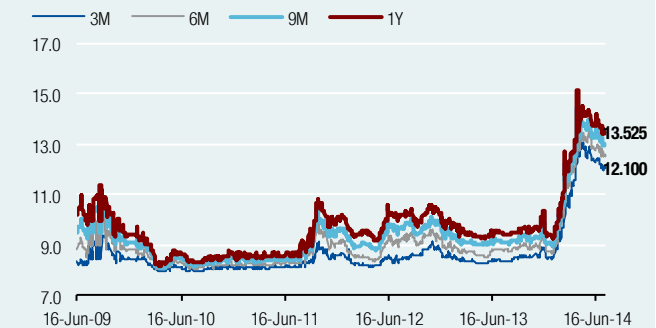


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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.

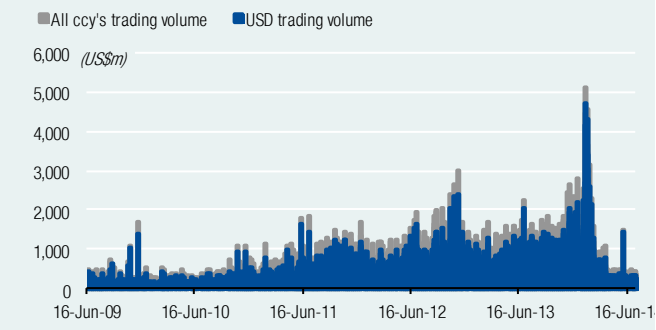


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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)



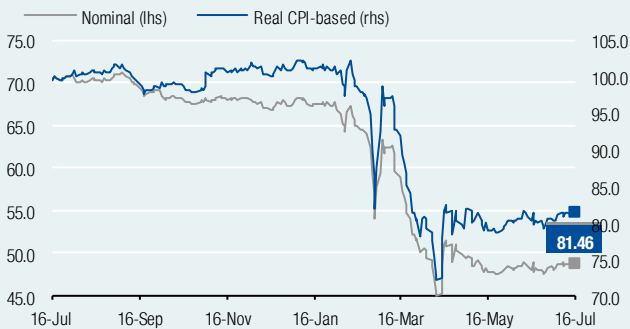
Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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

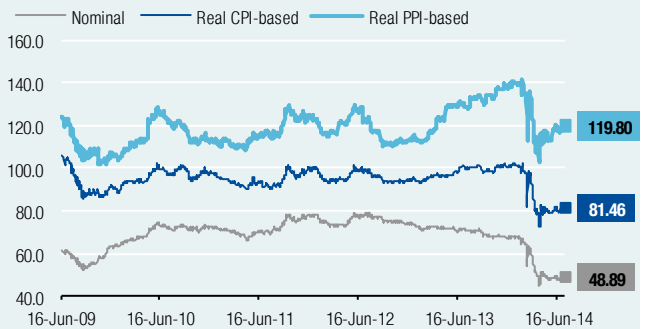
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

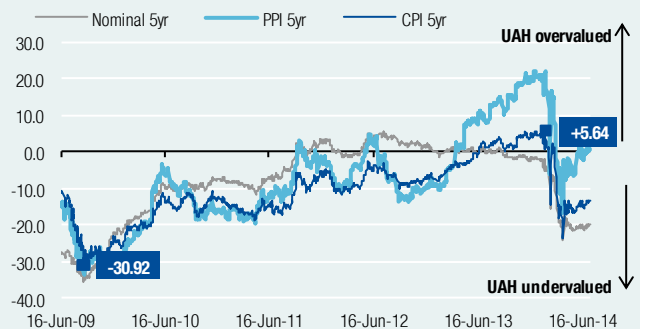


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

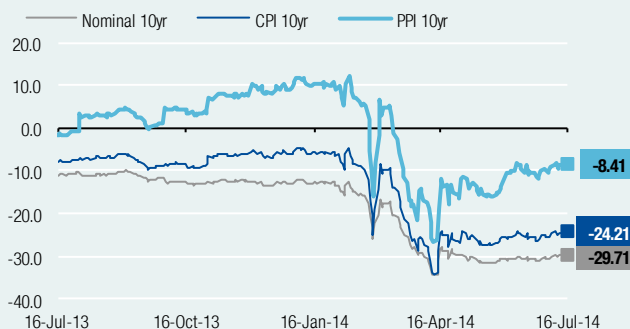


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

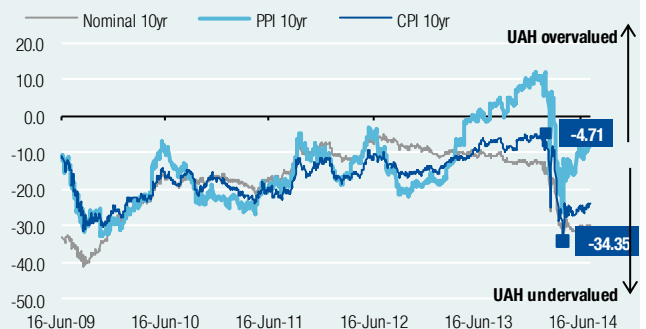


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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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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



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