


**INVESTMENT CAPITAL UKRAINE**  
 INVESTMENT BANKING

# Daily Insight

Liquidity up before tax payments; YTM's decline;  
 UAH weakens further

MONDAY, 24 MARCH, 2014

RESEARCH INSIGHT

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### UX Index (3 months to 24 Mar 2014)



### Key market indicators (as of 21 Mar 2014)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	10.5500	+1.78	+28.03
USD/UAH (1Y NDF)	12.6000	+1.61	+33.76
EUR/USD	1.3794	+0.11	+0.37
USD/RUB	36.2430	+0.19	+10.26
KievPRIME O/N (%)	6.80	-218bp	-100bp
KievPRIME 1M (%)	23.70	-30bp	+745bp
<b>BONDS: yields and spreads</b>			
Ukraine VAT bond (%)	N/A	+74bp	+0bp
Ukraine 17, Eurobond (%)	13.13	-67bp	+357bp
Ukraine 22, Eurobond (%)	10.19	-33bp	+84bp
Ukraine 23, Eurobond (%)	9.96	-34bp	+91bp
Ukraine 5Y CDS	N/A		
<b>EQUITIES</b>			
<b>Stock market indices</b>			
UX (Ukraine)	1,027.29	+2.28	+12.88
MSCI World	404.36	+0.00	-1.03
MSCI EM	944.96	+0.45	-5.76
RTS (Russia)	1,136.21	-1.27	-21.25
WIG-20 (Poland)	2,365.96	-0.35	-1.46
S&P 500 (USA)	1,866.52	-0.29	+0.98
<b>MOST ACTIVE: Top 3 stocks by value traded (US\$m)</b>			
FXPO LN	4.57	36.7% of total <sup>1</sup>	
KER PW	3.73	29.9%	
AVGR LI	1.90	15.3%	
<b>GAINERS: Top 3 stocks (in listed currency)</b>			
AVGR LI	USD 9.71	+13.17	-17.36
AGL PW	PLN 19.20	+6.67	-25.95
DOEN UK	UAH 38.90	+3.90	+40.99
<b>LOSERS: Top 3 stocks (in listed currency)</b>			
AGT PW	PLN 3.02	-5.63	+54.87
MHPC LI	USD 12.95	-5.47	-24.05
CLE PW	PLN 1.50	-3.85	+42.86

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 21-Mar-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	9.38 GBP	+0.0	-18.5	-9.6	-34.2	0.15	35.7	-27.4	40.2	14.4	0.0	9.8	0.07	1,351	Neg.	Neg.	Neg.	4.2	4.2	8.6	Neg.	Neg.	Neg.	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	5.29 UAH	+1.9	+1.4	+10.9	-5.6	0.50	185.2	245.4	21.7	40.2	115.9	62.8	0.24	424	8.4	7.5	5.2	0.4	4.2	2.8	0.3	0.4	0.3	0.8	12.2
Coal Energy	CLE PW	Warsaw	1.50 PLN	-3.8	-18.5	+42.9	-80.8	0.49	22.2	80.1	25.0	5.5	173.1	403.2	12.34	8	Neg.	Neg.	N/A	1.3	11.0	N/A	0.6	0.9	N/A	0.2	7.7
Donbasenergo	DOEN UK	Kiev, UX	38.90 UAH	+3.9	-2.9	+41.0	+88.5	3.69	87.2	132.2	14.2	12.4	25.9	27.2	0.38	264	29.7	3.7	5.3	0.5	2.8	2.6	0.3	0.3	0.3	1.4	17.8
JKX Oil & Gas	JKX LN	London	59.00 GBP	-2.9	-8.2	-17.5	-23.6	0.97	167.0	164.0	47.2	78.8	89.3	68.3	0.11	872	Neg.	5.1	4.7	1.2	1.6	1.8	0.8	0.8	0.8	0.3	2.5
Regal Petroleum	RPT LN	London	11.00 GBP	+0.0	-12.0	-15.4	-58.1	0.18	58.1	31.3	80.9	47.0	1.5	6.6	0.03	3,991	5.0	11.6	N/A	1.4	1.8	N/A	0.8	N/A	N/A	0.2	0.0
Sadova Group	SGR PW	Warsaw	0.81 PLN	-2.4	-11.0	+52.8	-54.5	0.27	11.5	51.2	25.0	2.9	36.2	104.0	8.20	12	Neg.	N/A	N/A	7.7	N/A	N/A	1.3	N/A	N/A	0.2	42.4
Zakhidenergo	ZAEN UK	Kiev, PFTS	123.30 UAH	+0.2	-5.2	+36.4	+38.4	11.69	149.5	124.2	5.0	7.5	1.4	6.6	0.04	2,226	2.7	N/A	N/A	0.8	N/A	N/A	0.1	N/A	N/A	0.9	0.0
<b>METALLURGY</b>																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.04 UAH	+1.9	-7.1	-5.2	-22.8	0.00	89.9	1,420.5	3.9	3.5	0.6	10.0	0.49	205	Neg.	Neg.	N/A	N/A	Neg.	N/A	1.0	1.1	N/A	N/A	64.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	3.00 UAH	+2.8	-10.2	+1.3	-2.0	0.28	55.4	52.0	4.0	2.2	0.4	14.4	1.23	81	Neg.	Neg.	2.7	Neg.	1.5	0.9	0.1	0.1	0.1	0.1	0.0
Azovstal	AZST UK	Kiev, UX	0.70 UAH	+2.5	-8.6	+3.7	+13.9	0.07	276.9	269.0	4.1	11.4	1.6	11.0	0.18	552	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.1	0.1	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	143.80 GBP	-1.0	-13.6	-22.6	-13.4	2.37	1,395.4	2,056.5	22.4	312.6	4,568.8	3,387.1	1.57	64	5.3	5.7	7.1	4.1	4.4	4.9	1.3	1.3	1.3	0.8	35.1
Yasnyivsky Cok...	YASK UK	Kiev, UX	0.71 UAH	+0.0	+6.8	+34.0	+14.9	0.07	18.4	19.8	9.0	1.7	2.4	1.4	0.15	665	2.9	1.9	1.4	0.1	0.9	0.8	0.1	0.1	0.1	0.1	0.1
Yenakievo Steel	ENMZ UK	Kiev, UX	34.78 UAH	+1.6	-15.2	+8.7	+0.1	3.30	34.8	29.9	9.4	3.3	0.6	11.7	0.71	141	5.3	Neg.	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.8	0.0
<b>FOOD AND AGRIBUSINESS</b>																											
AgroGeneration	ALAGR FP	EN Paris	1.14 EUR	-0.9	-8.8	-8.1	-33.7	1.57	145.3	172.7	34.0	49.4	39.8	32.8	0.09	1,063	Neg.	N/A	N/A	Neg.	N/A	N/A	2.6	N/A	N/A	1.2	35.9
Agroliga	AGL PW	Warsaw	19.20 PLN	+6.7	-20.0	-26.0	+10.3	6.31	9.7	10.6	16.7	1.6	18.2	15.6	1.86	54	2.2	N/A	N/A	3.1	N/A	N/A	0.5	N/A	N/A	0.8	5.7
Agroton	AGT PW	Warsaw	3.02 PLN	-5.6	-33.0	+54.9	-70.1	0.99	21.5	68.8	26.2	5.6	499.2	658.1	26.02	4	3.2	4.5	2.9	4.9	7.4	4.4	0.8	1.0	0.8	0.2	28.0
Astarta Holdin...	AST PW	Warsaw	44.70 PLN	+1.6	-23.7	-33.2	-21.6	14.69	367.3	698.6	31.0	113.9	208.6	187.5	0.24	411	5.9	6.4	3.5	7.9	7.6	4.2	1.4	1.6	1.1	0.6	38.9
Avangard	AVGR LI	London Intl	9.71 USD	+13.2	-11.7	-17.4	+16.6	9.71	620.2	786.5	21.7	134.6	1,901.5	363.3	0.41	245	2.8	2.7	3.0	2.8	2.7	2.8	1.2	1.1	1.1	0.5	22.3
IMC	IMC PW	Warsaw	8.45 PLN	+0.6	-19.4	-30.5	-43.7	2.78	86.9	203.2	23.9	20.8	6.8	107.5	0.79	127	4.6	4.6	3.6	5.6	4.9	4.1	2.7	1.4	1.0	0.7	33.0
Kernel Holding...	KER PW	Warsaw	28.80 PLN	+1.4	-24.2	-24.3	-48.1	9.47	754.3	1,777.7	58.8	443.4	3,731.6	2,327.9	0.92	108	6.8	7.6	4.1	6.1	6.4	5.0	0.6	0.7	0.6	0.6	30.6
KSG Agro	KSG PW	Warsaw	5.66 PLN	+1.3	-29.1	-47.8	-52.8	1.86	27.9	149.8	34.4	9.6	12.4	17.9	0.42	238	3.4	2.3	2.3	35.5	5.1	4.1	4.0	2.2	1.4	0.3	29.2
MHP	MHPC LI	London Intl	12.95 USD	-5.5	-15.9	-24.0	-25.6	12.95	1,368.4	2,569.4	22.3	305.4	987.3	1,146.1	0.47	211	4.6	6.8	5.6	5.5	6.2	5.2	1.8	1.7	1.6	1.2	45.8
Milkiland	MLK PW	Warsaw	7.83 PLN	+1.7	-23.2	-37.4	-45.6	2.57	80.4	216.2	20.0	16.1	6.1	15.4	0.21	483	4.6	4.5	4.4	6.0	5.3	4.3	0.5	0.5	0.4	0.3	29.9
Mriya Agrohold...	MAYA GF	Frankfurt	5.47 EUR	-2.4	+6.1	+1.3	+19.6	7.55	802.2	1,534.1	20.0	160.4	7.6	2.5	0.00	40,357	4.6	5.0	5.3	6.7	5.7	6.2	4.4	4.1	3.6	0.9	34.8
Ovostar Union	OVO PW	Warsaw	66.99 PLN	+0.0	-9.5	-33.0	-30.9	22.02	132.1	144.2	25.0	33.0	0.6	53.1	0.17	597	5.6	5.1	3.6	5.2	5.2	3.3	2.0	1.8	1.3	1.3	3.7
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Xetra	0.31 EUR	+0.0	+14.4	-2.2	-41.8	0.43	22.2	181.5	13.1	2.9	0.0	0.1	0.01	10,140	Neg.	N/A	N/A	Neg.	N/A	N/A	8.3	N/A	N/A	0.2	44.1
<b>FINANCIAL SERVICES</b>																											
Forum Bank	FORM UK	Kiev, UX	0.25 UAH	+0.0	-63.7	-67.1	-60.6	0.02	14.1	N/A	5.5	0.8	0.5	0.8	0.29	341	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	+2.1	+9.9	+33.0	+46.8	0.01	429.1	N/A	3.8	16.4	22.9	45.5	0.42	239	14.2	8.2	4.3	N/A	N/A	N/A	N/A	N/A	N/A	0.6	28.3
UkrSotsbank	USCB UK	Kiev, UX	0.15 UAH	-3.5	-17.9	-18.5	+27.9	0.01	262.9	N/A	4.5	11.8	0.2	5.6	0.07	1,476	916.3	169.1	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 21-Mar-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 rose prior to tax payments

Tax payments began last Friday, and liquidity significantly rose beforehand. Broader banking sector liquidity rose UAH3.99bn to UAH38.51bn last Friday as banks' correspondent accounts with the NBU rose UAH4.12bn to UAH28.92bn while total CDs outstanding slid a mere UAH0.14bn to UAH5.90bn. Total local currency debt repayments scheduled for the next 30 days remained steady at UAH3.69bn.

KyivPrime interest rates slightly declined last Friday, most likely in response to the increase in liquidity: the KyivPrime ON interest rate declined 218bp to 6.80% while the KyivPrime 1M interest rate slid 30bp to 23.70%.

**Investment implications: Last week's tenders on the NBU loans likely had a positive impact on liquidity and supported the liquidity increase. However, this increase occurred just prior to tax payments, which, without new support, should have reduced liquidity significantly.**

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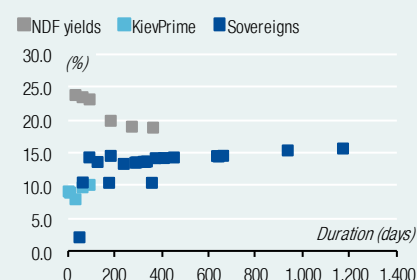
## YTM's decline

After last week's positive declaration of support for Ukraine and results of the Crimean referendum which did not result in a military conflict, Ukrainian Eurobond YTM's continued to decline last Friday. The yield-curve moved to the range of 9.78-15.14%, which is higher than it was before the Crimean conflict began at the beginning of the month. At the close, UKRAIN 6.875% '15 declined 217bp to 15.14%, UKRAIN 9.25% '17 slid 23bp to 12.89%, UKRAIN 7.95% '21 slid 16bp to 10.49%, while UKRAIN 7.80% '22 and UKRAIN 7.50% '23 slid 18bp to 10.02% and 9.78% respectively.

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### Yield curve of the local bond market

(as of market close on 21 Mar 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

### Bond market indicators (as of 21 Mar 2014)

	Last	Daily	Weekly	MoM	YTD
		chg (%)	chg (%)	chg (%)	chg (%)
<b>MONEY MARKET KIEV PRIME RATES (%)</b>					
0/n	6.80	-218bp	-20bp	-14ppt	-100bp
1wk	17.72	-80bp	+124bp	-528bp	+792bp
1m	23.70	-30bp	+32bp	+70bp	+745bp
2m	18.30	+0bp	+17bp	+0bp	+190bp
3m	18.04	+0bp	+4bp	+4bp	+204bp
<b>LIQUIDITY WIDE MEASUREMENT (UAHm)</b>					
CB acc's <sup>1</sup>	28,917	+16.63	-4.33	+21.24	-11.58
CDs <sup>2</sup>	11,842	+6.02	+24.86	+564.2	+679.1
Sovgns <sup>3</sup>	3,699	+0.00	-6.28	-31.90	+147.5
<b>Total</b>	<b>44,458</b>	<b>+12.09</b>	<b>+1.83</b>	<b>+43.11</b>	<b>+24.47</b>
<b>HOLDERS OF UAH SOVEREIGN BONDS (UAHm)</b>					
C.bank	169,694	+0.00	+0.00	+5.06	+17.15
Banks	81,184	+1.00	+3.28	-0.38	+1.27
Resid's <sup>4</sup>	10,999	+0.42	-1.83	-4.88	-11.27
Non-res <sup>5</sup>	14,359	+1.59	+5.44	+9.31	+22.74
<b>Total</b>	<b>276,236</b>	<b>+0.39</b>	<b>+1.14</b>	<b>+3.18</b>	<b>+10.89</b>
<b>NDF IMPLIED YIELDS (%)</b>					
3m	26.82	+11bp	-29ppt	-23ppt	+15bp
6m	30.21	+103bp	-13ppt	-368bp	+17bp
9m	21.93	-19bp	-949bp	-386bp	+792bp
1yr	20.10	-20bp	-741bp	-404bp	+512bp
<b>LOCAL CURRENCY UAH SOVEREIGN BOND YIELDS (%)</b>					
Mar '13	N/A	-52ppt	+0bp	+0bp	+0bp
Jan '14	N/A	+320bp	+0bp	+0bp	-676bp
Aug '15 <sup>6</sup>	N/A	+74bp	+0bp	+0bp	+0bp
<b>EUROBONDS USD SOVEREIGN BOND YIELDS (%)</b>					
CDS 5yr	N/A	N/A	N/A	N/A	N/A
Jun '16	13.12	-113bp	-135bp	-62bp	+423bp
Jul '17	13.13	-67bp	-115bp	-106bp	+357bp
Sep '20	10.66	-61bp	-84bp	-31bp	+147bp
Sep '21	10.66	-47bp	-82bp	-44bp	+144bp
Sep '22	10.19	-33bp	-67bp	-70bp	+84bp
Feb '23	9.96	-34bp	-53bp	-46bp	+91bp

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

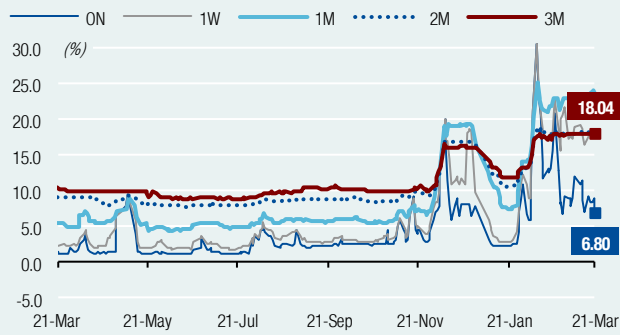


Chart 2. UAH NDF implied yields (%), last 12-month period



Chart 3. UAH sovereign yield curve (%) as of 21 Mar 2014

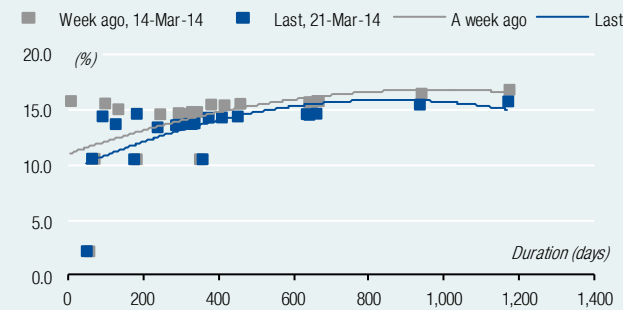


Chart 4. USD sovereign yield curve (%) as of 21 Mar 2014

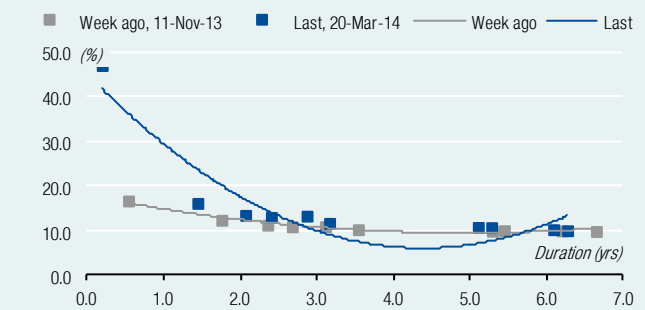


Chart 5. Banking sector liquidity (UAHbn), last 12-month period

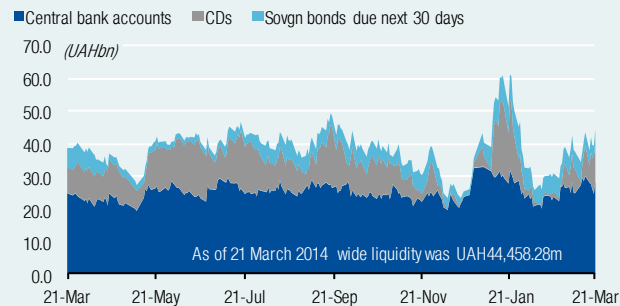


Chart 6. Breakdown of liquidity pool (%) as of 21 Mar 2014

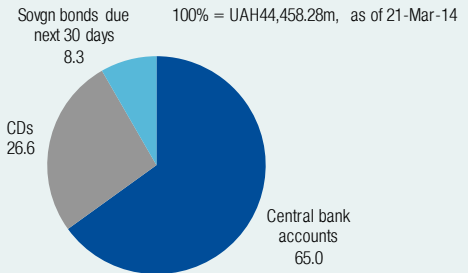


Chart 7. Holders of sovereign bonds (UAHbn), last 12 months

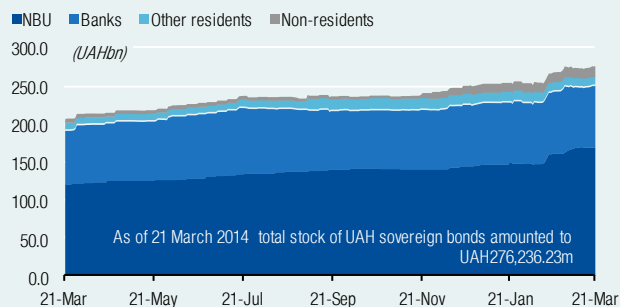
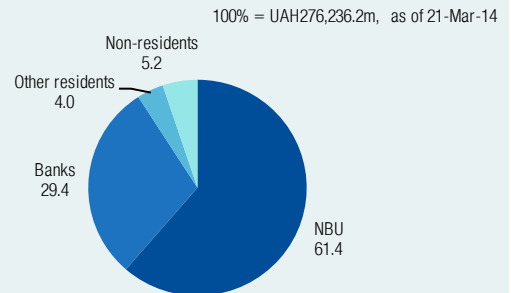


Chart 8. Domestic sovereign debt (%) as of 21 Mar 2014



# FX: News & Comments

## UAH weakens further

The UAH weakened 1.78% to 10.5500/USD last Friday to a two-week low. Last week, the hryvnia weakened 8.76%. Interfax-Ukraine reported that during last Friday's session the NBU did not participate in the market as quotes rose to UAH10.65-10.80/USD. The NBU increased the official exchange rate to UAH10.1092/USD, crossing UAH10.0/USD for the first time ever. Meanwhile, the UAH's real rate declined 1.72% last Friday and 8.02% over last week.

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### ICU's UAH trade-weighted indices

(Last 12-month history to 24 Mar 2014)



### FX market indicators (as of 21 Mar 2014)

	Last	Daily	Weekly	MoM	YTD
		chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	10.5500	+1.78	+8.76	+17.88	+28.03
NBU avg	N/A	N/A	N/A	N/A	N/A
Tt vlm <sup>1</sup>	N/A	N/A	N/A	N/A	N/A
\$ volume <sup>2</sup>	N/A	N/A	N/A	N/A	N/A
NDF 3M	11.2500	+1.81	+1.94	+11.94	+32.59
NDF 6M	12.1250	+2.24	+2.75	+16.03	+38.10
NDF 1Y	12.6000	+1.61	+2.44	+14.03	+33.76
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	55.090	-1.72	-8.02	-14.39	-18.43
UAH real CPI	82.822	-1.72	-8.02	-14.39	-18.07
UAH real PPI	113.917	-1.72	-8.02	-14.39	-17.92
USD nom'l	80.105	-0.11	+0.83	-0.16	+0.09
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	36.2430	+0.19	-1.06	+2.00	+10.26
EUR/USD	1.3794	+0.11	-0.86	+0.35	+0.37
USD/CNY	6.2258	-0.04	+1.23	+2.21	+2.83
USD/PLN	3.0425	-0.12	+0.17	+0.69	+0.65
USD/TRY	2.2340	+0.22	+0.96	+2.60	+3.99
USD/BYR	9,865.00	+0.15	+0.25	+0.87	+3.41
USD/KZT	182.3000	-0.10	-0.24	-1.15	+18.17
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	102.2500	-0.14	+0.88	-0.25	-2.91
GBP/USD	1.6486	-0.11	-0.97	-0.78	-0.43
USD/CHF	0.8829	-0.10	+1.20	-0.54	-1.12
AUD/USD	0.9081	+0.46	+0.59	+1.16	+1.84
USD/CAD	1.1221	-0.20	+1.04	+1.02	+5.63
USD/BRL	2.3251	-0.12	-0.92	-0.88	-1.57
USD/KRW	1,080.40	+0.39	+0.71	+0.78	+2.91
<b>COMMODITIES</b>					
Gold(\$/oz)	1,334.70	+0.51	-3.50	+0.79	+10.70
WTI crude <sup>3</sup>	N/A	N/A	N/A	N/A	N/A
Brent crd <sup>3</sup>	N/A	N/A	N/A	N/A	N/A
Urals crd <sup>3</sup>	N/A	N/A	N/A	N/A	N/A
TR/J CRB <sup>4</sup>	299.40	-0.03	-1.15	-0.72	+6.86

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)



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



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

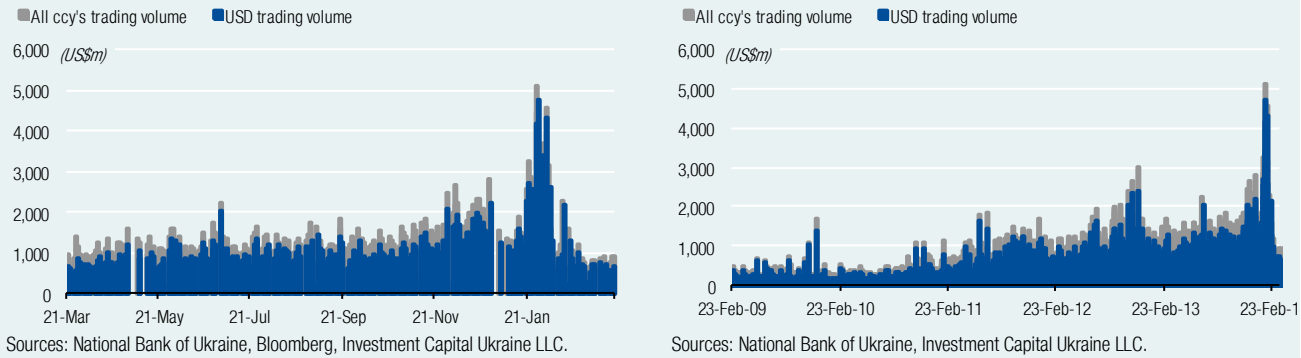
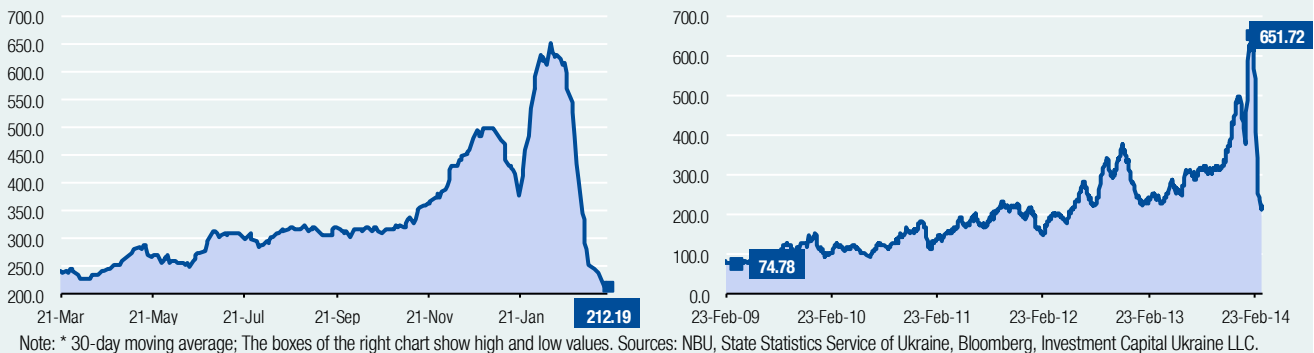


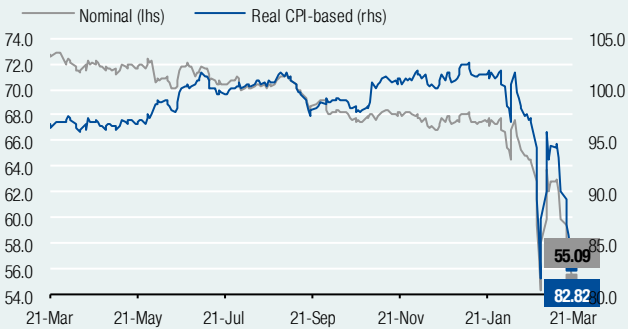
Chart 12. 30D MA\* ratio of FX market turnover to merchandise trade: last 12m and 5yr periods (% , left and right respectively)



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

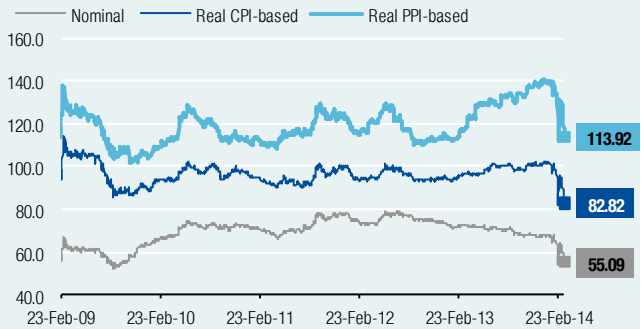
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

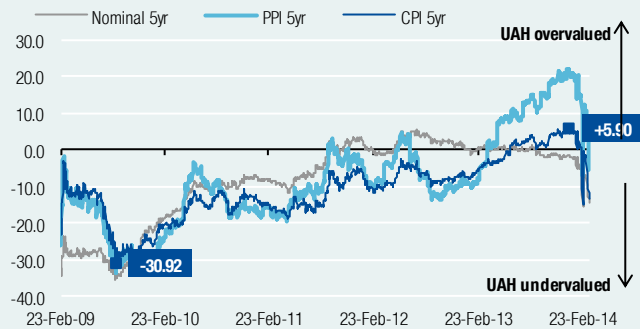


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

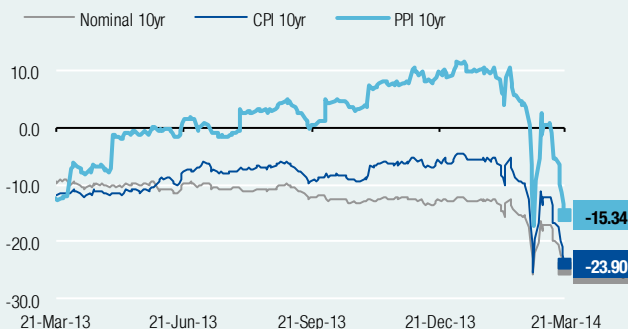


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

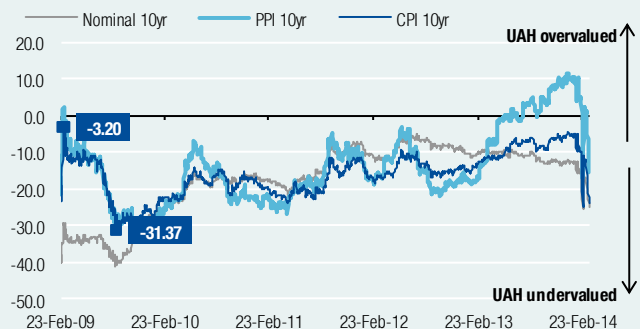


Note: the boxes indicate the high and low values of CPI-based TWI.  
Source: Investment Capital Ukraine LLC.

**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.

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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

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