



INVESTMENT CAPITAL UKRAINE  
INVESTMENT BANKING

# Daily Insight

Liquidity moves slightly; Yields correct; UAH slides further

FRIDAY, 4 APRIL, 2014

RESEARCH INSIGHT

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### UX Index (3 months to 4 Apr 2014)



### Key market indicators (as of 3 Apr 2014)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	11.4500	+0.93	+38.96
USD/UAH (1Y NDF)	12.9879	+0.49	+37.88
EUR/USD	1.3720	-0.34	-0.17
USD/RUB	35.5767	+0.45	+8.24
KievPRIME O/N (%)	3.31	-29bp	-449bp
KievPRIME 1M (%)	22.13	-27bp	+588bp
<b>BONDS: yields and spreads</b>			
Ukraine VAT bond (%)	N/A	+74bp	+0bp
Ukraine 17, Eurobond (%)	9.25	+0bp	-31bp
Ukraine 22, Eurobond (%)	8.79	+14bp	-56bp
Ukraine 23, Eurobond (%)	8.51	+4bp	-54bp
Ukraine 5Y CDS	N/A		
<b>EQUITIES</b>			
<b>Stock market indices</b>			
UX (Ukraine)	1,064.35	-1.10	+16.96
MSCI World	413.74	-0.17	+1.27
MSCI EM	1,000.17	-0.48	-0.25
RTS (Russia)	1,210.71	-0.96	-16.08
WIG-20 (Poland)	2,449.49	-0.97	+2.02
S&P 500 (USA)	1,888.77	-0.11	+2.19
<b>MOST ACTIVE: Top 3 stocks by value traded (US\$m)</b>			
FXPO LN	2.28	35.9% of total <sup>1</sup>	
KER PW	2.19	34.4%	
JKX LN	0.39	6.2%	
<b>GAINERS: Top 3 stocks (in listed currency)</b>			
BAVL UK	UAH 0.06	+47.25	+122.26
ALAGR FP	EUR 1.24	+3.33	+0.00
FXPO LN	GBP 159.90	+1.14	-13.96
<b>LOSERS: Top 3 stocks (in listed currency)</b>			
AGT PW	PLN 2.88	-7.99	+47.69
MLK PW	PLN 7.98	-7.10	-36.16
OVO PW	PLN 71.80	-6.44	-28.20

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 3-Apr-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	-11.0	-12.0	-35.4	0.15	35.0	-28.1	40.2	14.1	6.0	9.6	0.06	1,773	Neg.	Neg.	Neg.	4.3	4.3	8.8	Neg.	Neg.	Neg.	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	5.45 UAH	+1.0	+1.5	+14.3	+34.3	0.48	179.0	235.4	21.7	38.9	114.9	74.8	0.32	315	8.6	4.8	7.0	0.4	3.6	3.2	0.3	0.3	0.3	0.8	12.2
Coal Energy	CLE PW	Warsaw	1.58 PLN	-4.2	-3.1	+50.5	-73.4	0.52	23.4	81.3	25.0	5.9	113.1	420.8	6.79	15	Neg.	Neg.	N/A	1.3	11.1	N/A	0.6	0.9	N/A	0.2	7.7
Donbasenergo	DOEN UK	Kiev, UX	41.05 UAH	-1.3	+1.4	+48.8	+103.5	3.65	86.3	128.5	14.2	12.3	26.6	31.2	0.27	365	31.3	1.9	2.6	0.5	1.6	1.7	0.3	0.2	0.2	1.5	17.8
JKX Oil & Gas	JKX LN	London	60.50 GBP	-0.2	+6.6	-15.4	-20.9	1.00	172.3	178.8	47.2	81.3	394.0	83.4	0.15	681	26.5	8.4	5.3	2.7	1.9	N/A	1.0	0.9	0.8	0.4	5.5
Regal Petroleum	RPT LN	London	10.75 GBP	+0.0	-10.4	-17.3	-55.2	0.18	57.2	30.3	80.9	46.3	0.1	7.3	0.02	5,270	Neg.	N/A	N/A	1.4	N/A	N/A	0.8	N/A	N/A	0.2	0.0
Sadova Group	SGR PW	Warsaw	0.92 PLN	+1.1	+8.2	+73.6	-41.8	0.30	13.1	52.8	25.0	3.3	26.0	129.1	4.63	22	Neg.	N/A	N/A	7.9	N/A	N/A	1.3	N/A	N/A	0.3	42.4
<b>METALLURGY</b>																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.04 UAH	-0.3	-10.0	-5.2	-18.9	0.00	84.3	1,332.1	3.9	3.3	3.9	10.7	0.35	287	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	2.98 UAH	-3.2	-3.3	+0.6	-2.5	0.26	51.6	48.4	4.0	2.1	5.7	12.6	0.62	161	Neg.	Neg.	2.7	Neg.	1.5	0.9	0.1	0.1	0.1	0.1	0.0
Azovstal	AZST UK	Kiev, UX	0.73 UAH	-1.2	-1.1	+9.0	+21.3	0.06	272.8	265.4	4.1	11.2	7.5	10.1	0.09	1,092	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.1	0.1	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	159.90 GBP	+1.1	+10.9	-14.0	+1.0	2.65	1,561.2	2,222.3	22.4	349.7	2,282.8	3,861.6	0.91	110	6.0	6.4	8.0	4.4	4.9	5.4	1.4	1.4	1.4	0.9	35.1
Yenakievo Steel	ENMZ UK	Kiev, UX	35.25 UAH	+0.7	-6.4	+10.1	+4.0	3.13	33.1	28.4	9.4	3.1	1.9	13.1	0.38	262	5.4	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	1.24 EUR	+3.3	+5.1	+0.0	-25.3	1.70	157.0	184.1	34.0	53.4	148.0	37.9	0.08	1,307	Neg.	N/A	N/A	Neg.	N/A	N/A	2.8	N/A	N/A	1.3	35.9
Agroliga	AGL PW	Warsaw	20.10 PLN	-0.3	-11.5	-22.5	+18.2	6.62	10.2	11.1	16.7	1.7	8.8	15.7	1.03	97	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	2.88 PLN	-8.0	-32.2	+47.7	-65.7	0.95	20.5	67.9	26.2	5.4	340.8	633.5	17.63	6	3.0	4.3	2.8	4.8	7.3	4.4	0.8	1.0	0.8	0.2	28.0
Astarta Holdin...	AST PW	Warsaw	47.00 PLN	-2.5	-2.1	-29.7	-26.4	15.48	386.9	715.9	31.0	120.0	207.6	198.5	0.20	504	6.2	8.9	4.6	8.1	8.8	4.7	1.5	1.7	1.3	0.7	38.9
Avangard	AVGR LI	London Intl	9.80 USD	-2.0	+14.6	-16.6	+24.1	9.80	625.9	792.3	21.7	135.8	53.4	391.9	0.23	433	2.8	2.8	3.2	2.8	2.7	2.9	1.3	1.1	1.1	0.5	22.3
IMC	IMC PW	Warsaw	8.82 PLN	-1.9	-4.2	-27.4	-37.5	2.90	90.9	207.2	23.9	21.7	17.9	112.8	0.46	218	4.8	4.8	3.2	5.7	5.0	3.8	2.8	1.4	1.0	0.7	33.0
Kernel Holding...	KER PW	Warsaw	31.25 PLN	+0.2	+12.2	-17.9	-47.3	10.29	819.9	1,843.2	58.8	481.9	2,191.1	2,639.9	0.65	153	7.4	10.1	4.5	6.3	6.7	5.1	0.7	0.8	0.7	0.6	30.6
KSG Agro	KSG PW	Warsaw	5.99 PLN	+0.0	-10.2	-44.8	-52.5	1.97	29.6	151.5	34.4	10.2	8.8	20.5	0.22	447	3.7	2.4	2.5	35.9	5.2	4.2	4.1	2.2	1.4	0.3	29.2
MHP	MHPC LI	London Intl	13.35 USD	-0.4	-3.3	-21.7	-22.4	13.35	1,410.7	2,611.6	22.3	314.9	371.0	1,236.9	0.30	338	9.0	5.3	4.4	6.5	5.3	4.7	1.7	1.7	1.5	1.2	46.2
Milkiland	MLK PW	Warsaw	7.98 PLN	-7.1	-11.6	-36.2	-42.2	2.63	82.1	216.9	20.0	16.4	18.4	15.7	0.07	1,391	4.7	4.6	4.5	6.1	5.3	4.3	0.6	0.5	0.4	0.3	29.9
Mriya Agrohold...	MAYA GF	Frankfurt	4.86 EUR	-4.8	-1.8	-10.1	+4.5	6.66	707.3	1,439.1	20.0	141.5	0.0	1.9	0.00	33,767	4.1	4.4	4.7	6.2	5.4	5.8	4.1	3.8	3.4	0.8	34.8
Ovostar Union	OVO PW	Warsaw	71.80 PLN	-6.4	+8.8	-28.2	-24.7	23.64	141.9	153.9	25.0	35.5	1.8	37.1	0.11	873	6.0	5.5	3.8	5.5	5.5	3.5	2.2	1.9	1.4	1.4	3.7
<b>TRANSPORTATION</b>																											
KDM Shipping	KDM PW	Warsaw	13.24 PLN	-1.9	-54.0	-57.8	-62.7	4.36	40.5	24.5	10.9	4.4	13.0	2.2	0.14	691	3.2	N/A	N/A	1.6	N/A	N/A	0.8	N/A	N/A	0.7	8.3
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Xetra	0.31 EUR	+0.0	+1.6	-2.2	-38.9	0.42	22.0	181.3	13.1	2.9	0.0	0.1	0.00	125,569	Neg.	N/A	N/A	Neg.	N/A	N/A	8.3	N/A	N/A	0.2	44.1
<b>FINANCIAL SERVICES</b>																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.06 UAH	+47.3	+93.9	+122.3	+38.0	0.01	157.0	N/A	3.8	6.0	0.1	0.7	0.01	9,276	5.5	3.2	1.7	N/A	N/A	N/A	N/A	N/A	N/A	0.2	28.3
Ukrsotsbank	USCB UK	Kiev, UX	0.17 UAH	-2.3	-9.9	-10.0	+43.9	0.02	272.2	N/A	4.5	12.2	1.4	4.0	0.02	4,191	1,011.6	186.7	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 3-Apr-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 moves slightly

Wednesday's changes were insignificant, causing broader banking sector liquidity to rise a mere UAH0.15bn to UAH43.65bn yesterday, as banks' correspondent accounts with the NBU rose UAH0.31bn to UAH29.78bn and total CDs outstanding rose a mere UAH0.19bn to UAH9.14bn. Total local currency debt repayments scheduled for the next 30 days slid UAH0.35bn to UAH4.74bn.

Due to stable liquidity this week, KyivPrime interest rates declined: the KyivPrime ON interest rate declined 29bp to 3.31% while the KyivPrime 1M interest rate slid 27bp to 22.13%.

**Investment implications: The MoF's debt repayment was reallocated to banks' correspondent accounts with the NBU while a small portion of funds was invested in CDs. Liquidity remains steady this week at a very high level causing money market interest rates to decline. At the same time, the volume of funds invested ON remains too high. This situation could stop at any time.**

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## Yields correct

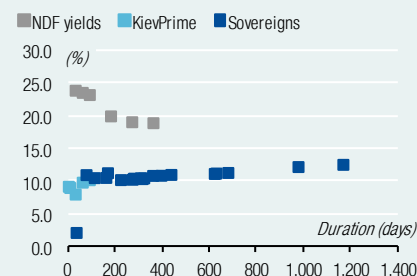
Ukrainian Eurobonds mostly slid yesterday, especially after Russia announced the cancelation of all privileges on gas exports to Ukraine, harkening a potential dramatic increase in gas prices. As a result, the yield curve moved to the range of 8.32-9.33% at the close as UKRAIN 6.875% '15 rose 19bp to 8.92%, UKRAIN 9.25% '17 rose 5bp to 9.33%, while UKRAIN 7.80% '22 and UKRAIN 7.50% '23 rose 2bp and 12bp to 8.76% and 8.32% respectively.

**Investment implications: Spreads of Ukrainian Eurobonds to the benchmark slightly widened yesterday and YTM's remained mostly below 9.0%. The lack of practical steps in financing from abroad caused anticipations to waver, particularly pushing risks higher for upcoming large debt repayments due in May and June.**

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## Yield curve of the local bond market

(as of market close on 3 Apr 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

## Bond market indicators (as of 3 Apr 2014)

	Last	Daily chg (%)	Weekly chg (%)	MoM chg (%)	YTD chg (%)
<b>MONEY MARKET KIEV PRIME RATES (%)</b>					
O/n	3.31	-29bp	-169bp	-569bp	-449bp
1wk	15.00	-100bp	-288bp	-240bp	+520bp
1m	22.13	-27bp	-125bp	-100bp	+588bp
2m	18.25	+5bp	+12bp	+12bp	+185bp
3m	18.00	+0bp	+0bp	-5bp	+200bp
<b>LIQUIDITY WIDE MEASUREMENT (UAHm)</b>					
CB acc's <sup>1</sup>	29,777	+1.03	+12.25	+10.67	-8.94
CDs <sup>2</sup>	18,071	+18.97	+10.05	+427.9	+1,088.9
Sovgns <sup>3</sup>	4,849	+0.00	+52.59	-12.87	+224.4
<b>Total</b>	<b>52,697</b>	<b>+6.43</b>	<b>+14.25</b>	<b>+46.81</b>	<b>+47.54</b>
<b>HOLDERS OF UAH SOVEREIGN BONDS (UAHm)</b>					
C.bank	170,684	+0.00	+0.73	+2.54	+17.83
Banks	85,241	+1.02	+3.28	+3.66	+6.33
Resid's <sup>4</sup>	11,050	+0.24	+0.35	-3.57	-10.86
Non-res <sup>5</sup>	15,573	+1.02	+4.43	+12.16	+33.11
<b>Total</b>	<b>282,548</b>	<b>+0.37</b>	<b>+1.67</b>	<b>+3.11</b>	<b>+13.42</b>
<b>NDF IMPLIED YIELDS (%)</b>					
3m	10.28	-6bp	-382bp	-43ppt	-187bp
6m	11.98	-139bp	-154bp	-22ppt	-143bp
9m	13.86	-8bp	-196bp	-13ppt	-15bp
1yr	14.06	-49bp	+6bp	-11ppt	-93bp
<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	8.70	+0bp	-10bp	-375bp	-19bp
Jul '17	9.25	+0bp	-91bp	-386bp	-31bp
Sep '20	8.89	+0bp	-20bp	-260bp	-30bp
Sep '21	8.90	+0bp	-17bp	-224bp	-32bp
Sep '22	8.79	+14bp	-10bp	-191bp	-56bp
Feb '23	8.51	+4bp	-15bp	-186bp	-54bp

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

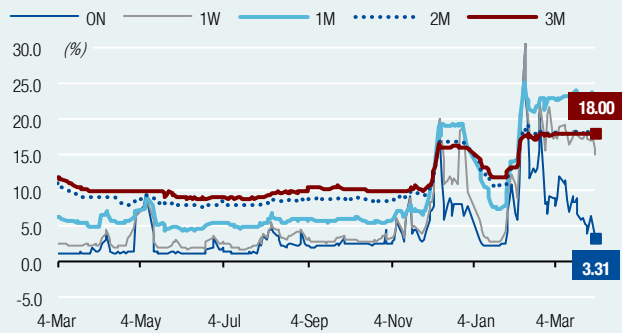


Chart 2. UAH NDF implied yields (%), last 12-month period



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

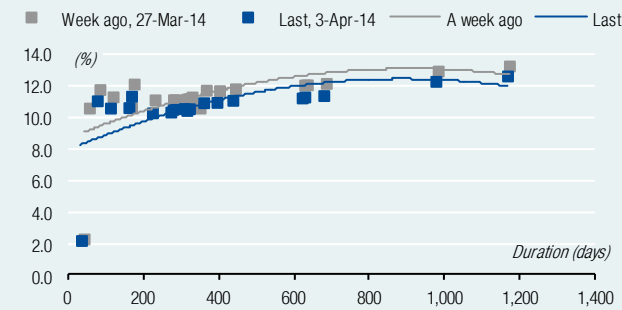


Chart 4. USD sovereign yield curve (%) as of 3 Apr 2014

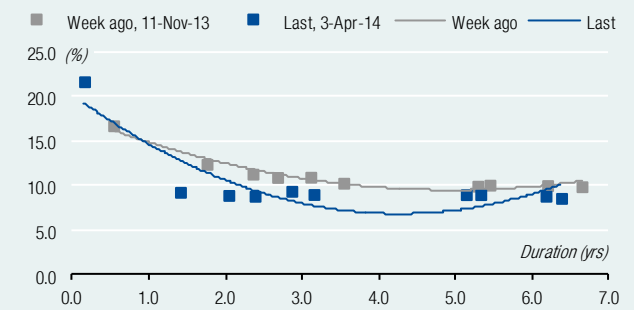


Chart 5. Banking sector liquidity (UAHbn), last 12-month period

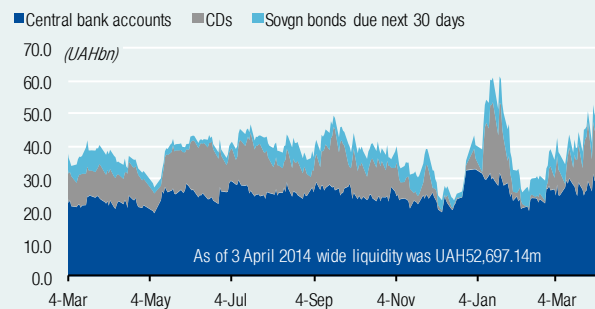


Chart 6. Breakdown of liquidity pool (%) as of 3 Apr 2014

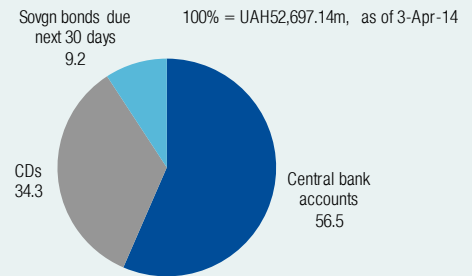


Chart 7. Holders of sovereign bonds (UAHbn), last 12 months

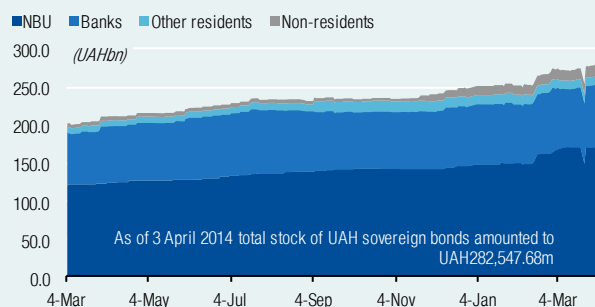
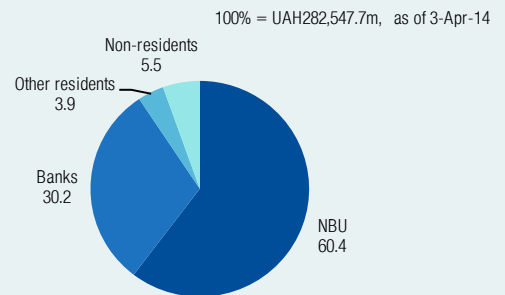


Chart 8. Domestic sovereign debt (%) as of 3 Apr 2014



# FX: News & Comments

## UAH slides further as NBU abstains from intervention

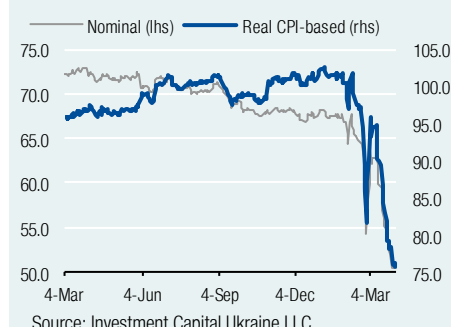
In accordance with the IMF-prescribed policy, the NBU, in its transition to targeting inflation, is allowing greater flexibility of the exchange rate, i.e. no FX market intervention. As the NBU has so far abstained from market intervention, the USD/UAH rate closed at 11.4500/USD yesterday, down 0.93% from the previous low. Although there was a rumor that the rate dropped as low as 15/USD, there was no indication that banks were selling USD at a substantially different rate from that on the inter-bank market.

The UAH's real trade-weighted value decreased 0.62% yesterday following a broad decline of major currencies versus the US dollar after the ECB rate-setting committee decided to leave the key rate unchanged. The ECB governor at a press conference commented that further easing was discussed and is still possible going forward if deflation risk intensifies. The RUB's weakness should be viewed as a result of negotiations between NATO and the Kremlin's foreign office on Russia's military presence on Ukraine's border.

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### ICU's UAH trade-weighted indices

(Last 12-month history to 4 Apr 2014)



### FX market indicators (as of 3 Apr 2014)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET</b> (HRYVNIA per US DOLLAR)					
Spot mkt	11.4500	+0.93	+3.01	+17.44	+38.96
NBU avg	11.2232	-0.16	+3.44	+12.32	+37.69
Ttt vlm <sup>1</sup>	546.59	+50.63	-46.55	+5.26	-80.49
\$ volume <sup>2</sup>	440.30	+65.66	-40.56	+54.14	-80.08
NDF 3M	11.7378	+0.91	+2.07	+6.22	+38.34
NDF 6M	12.1198	+0.27	+2.28	+6.31	+38.04
NDF 1Y	12.9879	+0.49	+3.08	+7.34	+37.88
<b>TRADE-WEIGHTED INDICES</b> (TWIs, points)					
UAH nom'l	50.353	-0.62	-3.04	-15.87	-25.45
UAH real CPI	75.700	-0.62	-3.04	-15.87	-25.11
UAH real PPI	104.122	-0.62	-3.04	-15.87	-24.98
USD nom'l	80.475	+0.32	+0.45	+0.50	+0.55
<b>FX RATES OF KEY CURRENCIES</b> THAT SHAPE UAH's TWIs					
USD/RUB	35.5767	+0.45	-0.13	-2.75	+8.24
EUR/USD	1.3720	-0.34	-0.15	-0.11	-0.17
USD/CNY	6.2114	+0.10	-0.03	+1.07	+2.59
USD/PLN	3.0357	+0.31	+0.16	-1.28	+0.42
USD/TRY	2.1327	+0.22	-2.45	-4.45	-0.72
USD/BYR	9,915.00	+0.17	+0.46	+1.28	+3.93
USD/KZT	182.0600	+0.02	-0.03	-0.50	+18.01
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	103.9300	+0.05	+1.71	+2.44	-1.31
GBP/USD	1.6598	-0.17	-0.08	-0.41	+0.25
USD/CHF	0.8909	+0.48	+0.48	+0.88	-0.22
AUD/USD	0.9232	-0.17	-0.29	+3.29	+3.53
USD/CAD	1.1035	+0.02	+0.04	-0.37	+3.88
USD/BRL	2.2796	+0.47	+0.92	-2.76	-3.49
USD/KRW	1,057.86	+0.12	-1.27	-1.15	+0.77
<b>COMMODITIES</b>					
Gold(\$/oz)	1,286.77	-0.24	-0.35	-4.72	+6.73
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>	303.10	+0.60	-0.28	-0.90	+8.18

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)

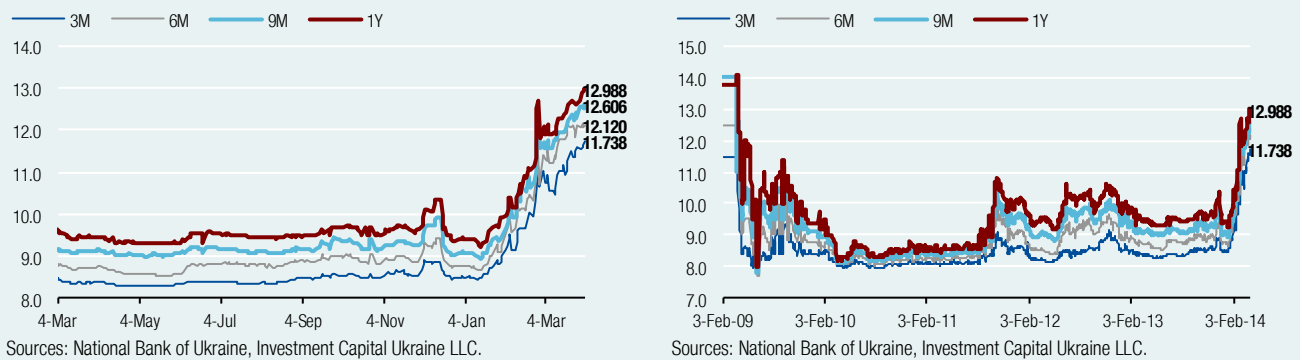
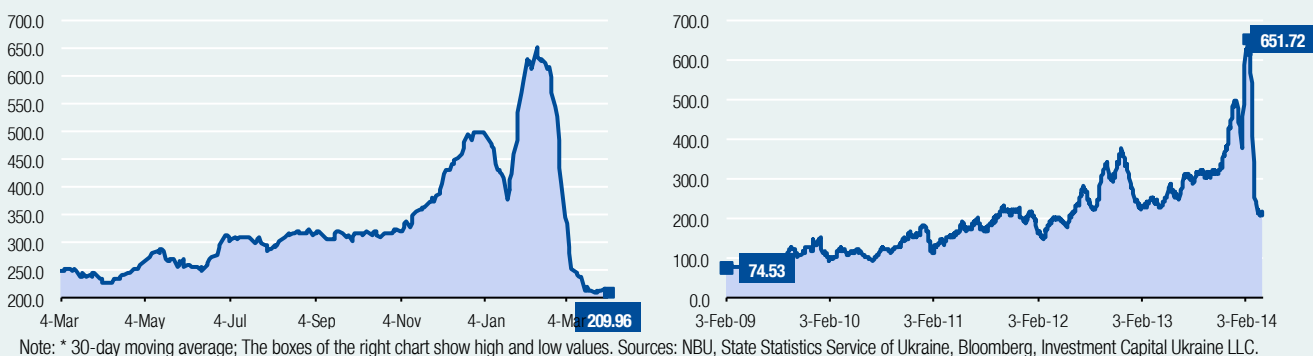


Chart 11. Trading volume: last 12-month and 5-year periods (US\$m, left and right respectively)



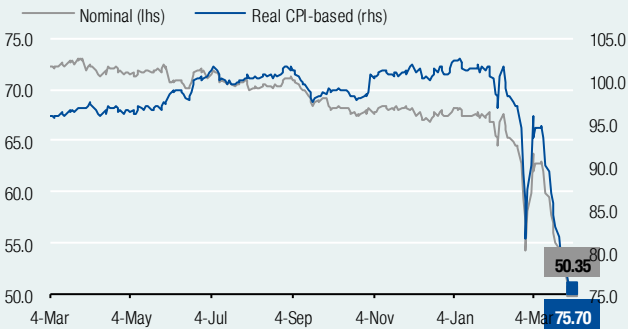
Chart 12. 30D MA\* ratio of FX market turnover to merchandise trade: last 12m and 5yr periods (% , left and right respectively)



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

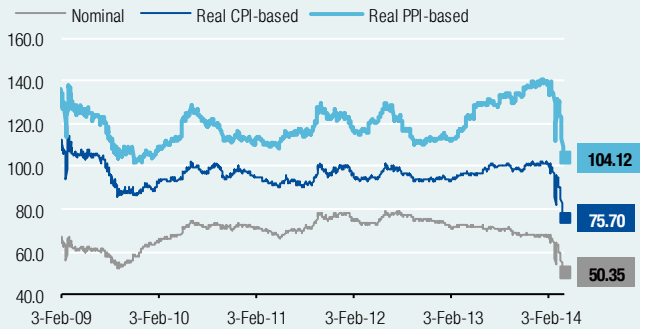
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



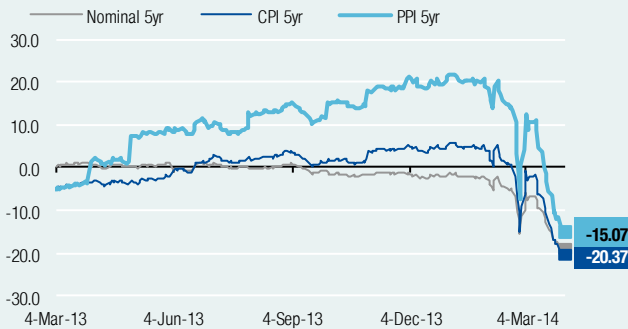
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

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

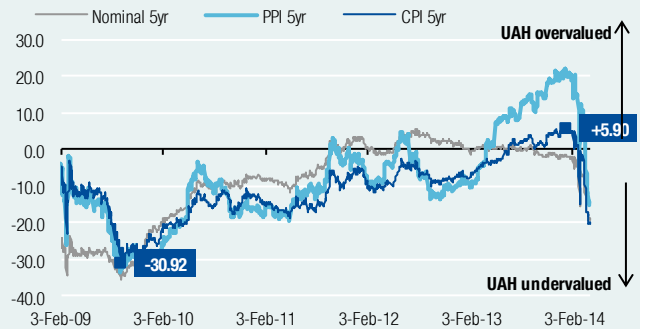


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

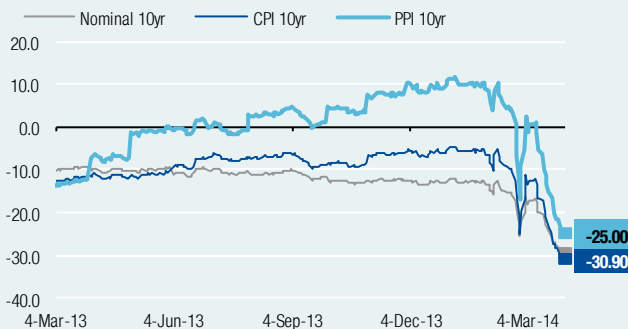


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.



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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**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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