



**INVESTMENT CAPITAL UKRAINE**  
INVESTMENT BANKING

# Daily Insight

UAH sets new low; Liquidity up slightly; Yields down; Moody's decreases rating of Ukrainian banks

FRIDAY, 11 APRIL, 2014

RESEARCH INSIGHT

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**UX Index (3 months to 11 Apr 2014)**



### Key market indicators (as of 10 Apr 2014)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	12.6000	+3.70	+52.91
USD/UAH (1Y NDF)	14.1000	+3.16	+49.68
EUR/USD	1.3886	+0.22	+1.04
USD/RUB	35.5219	-0.36	+8.07
KievPRIME O/N (%)	4.63	+93bp	-317bp
KievPRIME 1M (%)	20.88	-72bp	+463bp

### BONDS: yields and spreads

Ukraine VAT bond (%)	N/A	-8,900bp	-8,900bp
Ukraine 17, Eurobond (%)	10.24	-35bp	+68bp
Ukraine 22, Eurobond (%)	9.48	-26bp	+13bp
Ukraine 23, Eurobond (%)	9.15	-21bp	+10bp
Ukraine 5Y CDS	N/A		

### EQUITIES

#### Stock market indices

UX (Ukraine)	1,131.52	+3.01	+24.34
MSCI World	408.29	-0.95	-0.06
MSCI EM	1,021.74	+0.68	+1.90
RTS (Russia)	1,213.46	+1.96	-15.89
WIG-20 (Poland)	2,470.81	+0.37	+2.91
S&P 500 (USA)	1,833.08	-2.09	-0.83

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

FXPO LN	2.26	33.8% of total <sup>1</sup>
KER PW	1.64	24.5%
AVGR LI	1.03	15.4%

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

FORM UK	UAH 0.70	+32.63	-8.55
AVDK UK	UAH 3.25	+5.79	+9.80
ENMZ UK	UAH 36.65	+5.01	+14.50

#### 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

### Moody's decreases rating of Ukrainian banks to Ca

Following the downgrade of the long term sovereign rating to Caa3, Moody's has revised the Ukrainian banks' credit rating as well.

The credit rating of Privatbank, OTP Bank, Ukreximbank, Raiffeisenbank Aval, Subsidiary Bank Sberbank of Russia, FUIB, Pivdennyi Bank, Oschadbank, Credit-Dnipro Bank, Prominvestbank, Bank Finance and Credit (F&C) and VAB Bank has been cut from Caa3 to Ca. This is the lowest possible rating prior to a registered default. Considering the banks' high dependence on the domestic macroeconomic and financial environment, this rating has a negative outlook.

The following Ukrainian banks have two outstanding Eurobonds due in 2014 – US\$125m issued by VAB Bank and US\$250m issued by the FUIB.

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Table 1. Ukrainian stocks (closing prices as of 10-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	9.75 GBP	+0.0	-7.1	-6.0	-31.6	0.16	37.8	-25.3	40.2	15.2	3.3	10.8	0.06	1,662	Neg.	Neg.	Neg.	3.8	3.9	7.9	Neg.	Neg.	Neg.	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	5.67 UAH	+3.5	+2.6	+19.0	+41.8	0.47	172.7	225.0	21.7	37.5	241.0	84.5	0.37	270	9.0	5.0	7.3	0.4	3.7	3.3	0.3	0.3	0.3	0.9	12.2
Coal Energy	CLE PW	Warsaw	1.51 PLN	+1.3	-11.2	+43.8	-74.8	0.50	22.6	80.5	25.0	5.7	73.0	378.7	3.95	25	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	44.44 UAH	+2.9	+9.7	+61.1	+128.5	3.66	86.6	125.8	14.2	12.3	42.4	32.6	0.26	385	33.9	1.3	2.8	0.5	1.0	1.8	0.3	0.2	0.3	1.6	17.8
JKX Oil & Gas	JKX LN	London	60.00 GBP	+0.0	-1.2	-16.1	-17.2	1.01	172.8	179.3	47.2	81.6	30.0	93.9	0.17	582	26.6	13.3	6.2	2.7	2.1	2.0	1.0	1.0	0.8	0.4	5.5
Regal Petroleum	RPT LN	London	10.25 GBP	+2.5	-6.8	-21.2	-55.4	0.17	55.1	28.3	80.9	44.6	3.2	7.4	0.02	6,180	Neg.	N/A	N/A	1.3	N/A	N/A	0.8	N/A	N/A	0.2	0.0
Sadova Group	SGR PW	Warsaw	0.88 PLN	-2.2	+6.0	+66.0	-22.1	0.29	12.6	52.4	25.0	3.2	23.3	120.4	3.57	28	Neg.	N/A	N/A	7.8	N/A	N/A	1.3	N/A	N/A	0.3	42.4
Zakhidenergo	ZAEN UK	Kiev, PFTS	122.60 UAH	-4.8	+3.4	+35.6	+51.4	10.10	129.2	107.3	5.0	6.5	1.7	6.0	0.07	1,466	2.7	N/A	N/A	0.7	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	+2.2	-4.8	-3.1	-17.4	0.00	79.9	1,236.8	3.9	3.1	12.7	9.8	0.35	288	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	3.25 UAH	+5.8	+6.2	+9.8	+6.7	0.27	52.2	49.3	4.0	2.1	43.6	12.7	0.40	252	Neg.	Neg.	2.1	Neg.	1.4	0.7	0.1	0.1	0.1	0.1	0.0
Azovstal	AZST UK	Kiev, UX	0.75 UAH	+2.7	+8.5	+11.9	+25.2	0.06	259.8	253.0	4.1	10.7	6.8	10.1	0.09	1,132	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.1	0.1	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	151.60 GBP	-2.5	+11.9	-18.4	-19.4	2.54	1,497.0	2,158.1	22.4	335.3	2,262.5	3,705.1	0.81	123	5.7	6.1	7.4	4.3	4.7	5.2	1.4	1.4	1.4	0.9	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.67 UAH	-3.9	-6.5	+27.0	+17.0	0.06	15.2	16.3	9.0	1.4	1.2	1.1	0.03	3,032	2.7	1.4	0.9	0.1	0.7	0.5	0.1	0.0	0.0	0.1	0.1
Yenakievo Steel	ENMZ UK	Kiev, UX	36.65 UAH	+5.0	+1.5	+14.5	+9.1	3.02	31.9	27.6	9.4	3.0	15.8	12.8	0.41	244	5.6	Neg.	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.9	0.0
<b>FOOD AND AGRIBUSINESS</b>																											
AgroGeneration	ALAGR FP	EN Paris	1.16 EUR	+0.9	-1.7	-6.5	-27.5	1.61	148.9	176.4	34.0	50.6	38.0	38.5	0.09	1,164	Neg.	N/A	N/A	Neg.	N/A	N/A	2.7	N/A	N/A	1.2	35.9
Agroliga	AGL PW	Warsaw	19.50 PLN	-2.5	-8.9	-24.8	+15.4	6.49	10.0	10.9	16.7	1.7	1.0	14.6	0.77	129	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	2.75 PLN	+0.4	-18.9	+41.0	-66.2	0.91	19.8	67.2	26.2	5.2	82.9	584.0	11.34	9	2.9	4.1	2.7	4.7	7.2	4.3	0.8	1.0	0.8	0.2	28.0
Astarta Holdin...	AST PW	Warsaw	44.06 PLN	+0.1	+9.5	-34.1	-30.4	14.66	366.5	699.9	31.0	113.7	26.5	182.6	0.19	520	5.8	8.3	4.3	7.9	8.5	4.5	1.4	1.6	1.2	0.6	38.9
Avangard	AVGR LI	London Intl	9.50 USD	-1.0	+5.6	-19.1	+15.2	9.50	606.8	773.1	21.7	131.7	1,034.8	395.9	0.27	368	2.6	3.1	2.6	2.8	2.9	2.6	1.2	1.1	1.0	0.5	22.3
IMC	IMC PW	Warsaw	8.19 PLN	-0.1	-0.1	-32.6	-42.5	2.72	85.3	201.5	23.9	20.4	7.2	105.2	0.25	397	4.5	4.5	3.0	5.5	4.8	3.7	2.7	1.4	1.0	0.7	33.0
Kernel Holding...	KER PW	Warsaw	31.00 PLN	+3.3	+24.0	-18.6	-48.0	10.31	821.8	1,845.1	58.8	483.0	1,639.6	2,670.4	0.60	166	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	5.05 PLN	-3.3	-14.0	-53.5	-60.7	1.68	25.2	147.1	34.4	8.7	12.1	18.3	0.28	352	3.1	2.1	2.1	34.9	5.0	4.1	4.0	2.1	1.4	0.3	29.2
MHP	MHPC LI	London Intl	12.86 USD	-0.3	-1.8	-24.6	-25.5	12.86	1,358.9	2,559.9	22.3	303.3	1,020.9	1,219.5	0.33	300	8.7	5.2	4.2	6.4	5.2	4.7	1.7	1.7	1.5	1.2	46.2
Milkiland	MLK PW	Warsaw	7.70 PLN	+0.0	-3.9	-38.4	-43.8	2.56	80.1	216.7	20.0	16.0	1.0	15.3	0.07	1,511	4.5	3.8	4.4	6.0	4.9	4.0	0.5	0.5	0.5	0.3	29.9
Mriya Agrohold...	MAYA GF	Frankfurt	4.86 EUR	+0.0	-14.0	-10.1	+5.4	6.75	717.1	1,448.9	20.0	143.4	0.0	1.8	0.00	46,148	4.1	5.0	8.2	6.3	5.6	5.4	4.2	3.9	3.4	0.8	34.8
Ovostar Union	OVO PW	Warsaw	70.00 PLN	-1.3	-0.4	-30.0	-26.3	23.29	139.7	151.8	25.0	34.9	7.5	33.7	0.06	1,542	6.0	5.4	3.8	5.4	5.4	3.4	2.1	1.9	1.4	1.3	3.7
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Xetra	0.21 EUR	+0.0	-32.3	-33.8	-46.6	0.29	15.1	174.4	13.1	2.0	0.0	0.1	0.01	14,320	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	0.70 UAH	+32.6	-9.7	-8.6	+13.9	0.06	34.0	N/A	5.5	1.9	0.1	1.1	0.05	1,834	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	18.6
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.17 UAH	+1.6	+15.0	+52.3	+73.8	0.01	427.2	N/A	3.8	16.3	65.4	46.6	0.24	419	16.3	7.0	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	0.7	28.3
UkrSotsbank	USCB UK	Kiev, UX	0.17 UAH	+1.4	-9.8	-9.3	+44.7	0.01	254.1	N/A	4.5	11.4	4.0	3.8	0.02	4,012	1,018.8	188.0	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 10-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 increases slightly with fund reallocations

Broader banking sector liquidity slid UAH0.16bn yesterday to UAH44.74bn due to the UAH0.66bn decline in total local currency debt repayments scheduled for the next 30 days to UAH4.36bn while banks' correspondent accounts with the NBU rose UAH0.30bn to UAH32.51bn. Total CDs outstanding rose UAH0.20bn to UAH7.87bn.

KyivPrime interest rates slightly diverged: the KyivPrime ON interest rate rose 93bp to 4.63% while the KyivPrime 1M interest rate slid 72bp to 20.88%.

**Investment implications: Wednesday's debt repayments were mostly refinanced as the MoF received UAH494.70m from primary auctions held that day. The impact of repayments should not exceed UAH0.17bn. Although liquidity rose UAH0.33bn more than this inflow, this increase had no positive impact on ON interest rates which rose yesterday after the local currency exchange rate weakened.**

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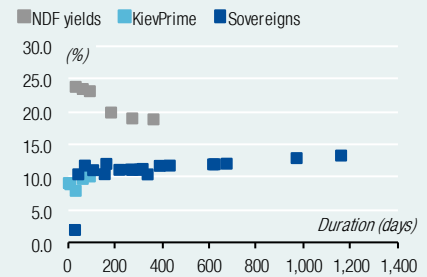
## Yields improve slightly

YTM of Ukrainian Eurobonds slightly declined during yesterday's trading session on optimistic anticipations of Ukraine's visit to the IMF yesterday. At the close, the yield-curve moved to the range of 8.78-10.71% as the YTM of UKRAIN 6.875% '15 declined 79bp to 10.71%, UKRAIN 9.25% '17 slid 24bp to 10.58%, UKRAIN 7.95% '21 declined 32bp to 9.46%, while UKRAIN 7.80% '22 and UKRAIN 7.50% '23 slid 28bp and 33bp to 9.30% and 8.78%, respectively.

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### Yield curve of the local bond market

(as of market close on 10 Apr 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

### Bond market indicators (as of 10 Apr 2014)

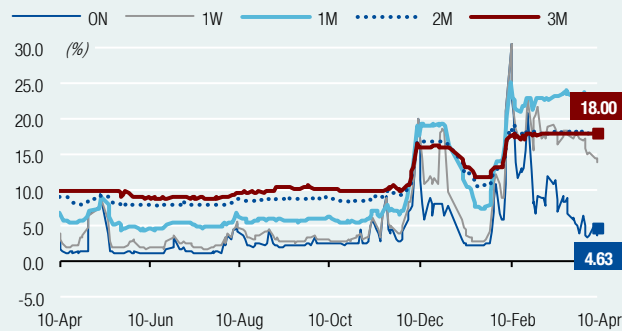
	Last	Daily chg (%)	Weekly chg (%)	MoM chg (%)	YTD chg (%)
<b>MONEY MARKET KIEV PRIME RATES (%)</b>					
O/n	4.63	+93bp	+132bp	-737bp	-317bp
1wk	13.88	-62bp	-112bp	-522bp	+408bp
1m	20.88	-72bp	-125bp	-192bp	+463bp
2m	18.13	-17bp	-12bp	+3bp	+173bp
3m	18.00	-4bp	+0bp	+0bp	+200bp
<b>LIQUIDITY WIDE MEASUREMENT (UAHm)</b>					
CB acc's <sup>1</sup>	32,510	+0.94	+9.18	+30.25	-0.59
CDs <sup>2</sup>	15,481	+5.04	-14.33	+114.9	+918.5
Sovgns <sup>3</sup>	4,478	+0.00	-7.66	-18.09	+199.5
<b>Total</b>	<b>52,469</b>	<b>+2.03</b>	<b>-0.43</b>	<b>+39.43</b>	<b>+46.90</b>
<b>HOLDERS OF UAH SOVEREIGN BONDS (UAHm)</b>					
C.bank	170,687	+0.00	+0.00	+1.03	+17.84
Banks	88,805	+1.31	+4.18	+11.17	+10.77
Resid's <sup>4</sup>	10,776	+0.19	-2.48	-4.89	-13.07
Non-res <sup>5</sup>	16,372	+1.08	+5.14	+21.10	+39.95
<b>Total</b>	<b>286,641</b>	<b>+0.47</b>	<b>+1.45</b>	<b>+4.74</b>	<b>+15.06</b>
<b>NDF IMPLIED YIELDS (%)</b>					
3m	16.66	-5bp	+638bp	-42ppt	+451bp
6m	11.38	-71bp	-59bp	-32ppt	-202bp
9m	13.62	+114bp	-24bp	-20ppt	-39bp
1yr	12.52	-60bp	-154bp	-17ppt	-247bp
<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	-89ppt	-89ppt	-89ppt	-89ppt
<b>EUROBONDS USD SOVEREIGN BOND YIELDS (%)</b>					
CDS 5yr	N/A	N/A	N/A	N/A	N/A
Jun '16	10.49	-35bp	+179bp	-244bp	+160bp
Jul '17	10.24	-35bp	+99bp	-331bp	+68bp
Sep '20	9.55	-25bp	+66bp	-151bp	+36bp
Sep '21	9.71	-25bp	+81bp	-132bp	+49bp
Sep '22	9.48	-26bp	+69bp	-90bp	+13bp
Feb '23	9.15	-21bp	+64bp	-100bp	+10bp

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**

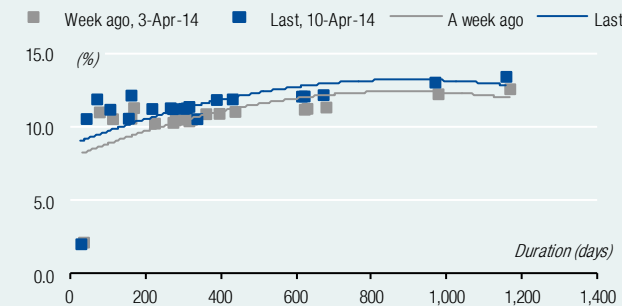
**Chart 1. Kiev Prime rates (%), last 12-month period**



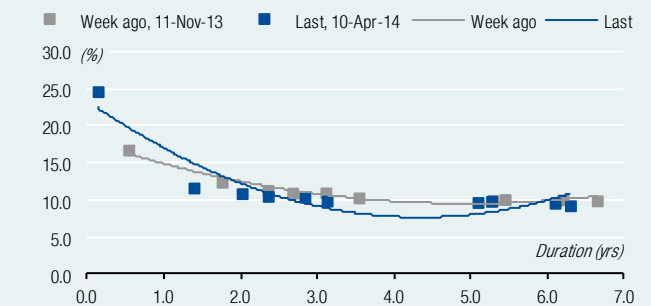
**Chart 2. UAH NDF implied yields (%), last 12-month period**



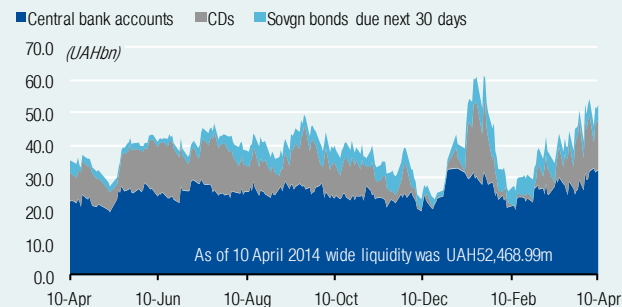
**Chart 3. UAH sovereign yield curve (%) as of 10 Apr 2014**



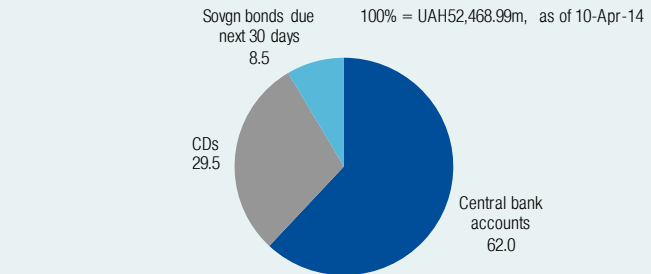
**Chart 4. USD sovereign yield curve (%) as of 10 Apr 2014**



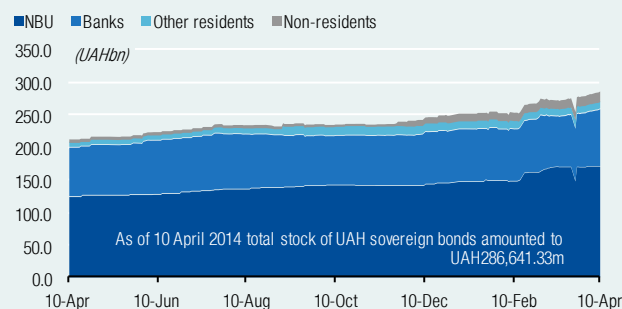
**Chart 5. Banking sector liquidity (UAHbn), last 12-month period**



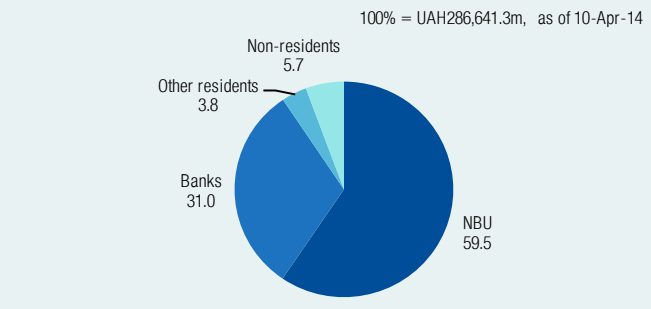
**Chart 6. Breakdown of liquidity pool (%) as of 10 Apr 2014**



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



**Chart 8. Domestic sovereign debt (%) as of 10 Apr 2014**



# FX: News & Comments

## UAH sets new low

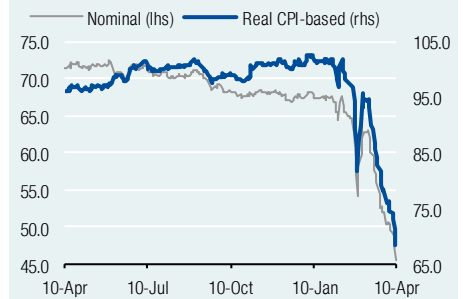
The hryvnia hit an historical low of 12.6000/USD. In one month, the currency declined 36.47%. Interfax-Ukraine reported that despite quotes hitting UAH12.90-13.10/USD, the NBU did not participate in the market and will continue to hold back until the promised IMF financing is received, per the recent agreement. Because of this, the hryvnia should weaken further.

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### ICU's UAH trade-weighted indices

(Last 12-month history to 11 Apr 2014)



Source: Investment Capital Ukraine LLC.

### FX market indicators (as of 10 Apr 2014)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	12.6000	+3.70	+10.04	+36.47	+52.91
NBU avg	12.6179	+6.23	+12.43	+36.62	+54.81
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	13.1170	+3.69	+11.75	+24.04	+54.59
NDF 6M	13.3000	+3.36	+9.74	+18.49	+51.48
NDF 1Y	14.1000	+3.16	+8.56	+18.49	+49.68
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	45.518	-3.70	-9.60	-27.51	-32.60
UAH real CPI	68.431	-3.70	-9.60	-27.51	-32.30
UAH real PPI	94.123	-3.70	-9.60	-27.51	-32.19
USD nom'l	79.383	-0.13	-1.36	-0.48	-0.81
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	35.5219	-0.36	-0.15	-2.28	+8.07
EUR/USD	1.3886	+0.22	+1.21	+0.06	+1.04
USD/CNY	6.2125	+0.20	+0.02	+1.18	+2.61
USD/PLN	3.0065	+0.05	-0.96	-0.97	-0.55
USD/TRY	2.1079	+0.20	-1.16	-4.99	-1.88
USD/BYR	9,940.00	+0.30	+0.25	+1.48	+4.19
USD/KZT	182.0400	+0.00	-0.01	-0.01	+18.00
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	101.5300	-0.46	-2.31	-1.68	-3.59
GBP/USD	1.6785	-0.05	+1.13	+0.84	+1.38
USD/CHF	0.8765	-0.35	-1.62	-0.14	-1.84
AUD/USD	0.9413	+0.23	+1.96	+4.36	+5.56
USD/CAD	1.0936	+0.52	-0.90	-1.55	+2.95
USD/BRL	2.2068	+0.91	-3.19	-6.11	-6.57
USD/KRW	1,040.16	-0.13	-1.67	-2.47	-0.92
<b>COMMODITIES</b>					
Gold(\$/oz)	1,318.90	+0.54	+2.50	-1.55	+9.39
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>	310.19	+0.22	+2.34	+1.37	+10.71

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)

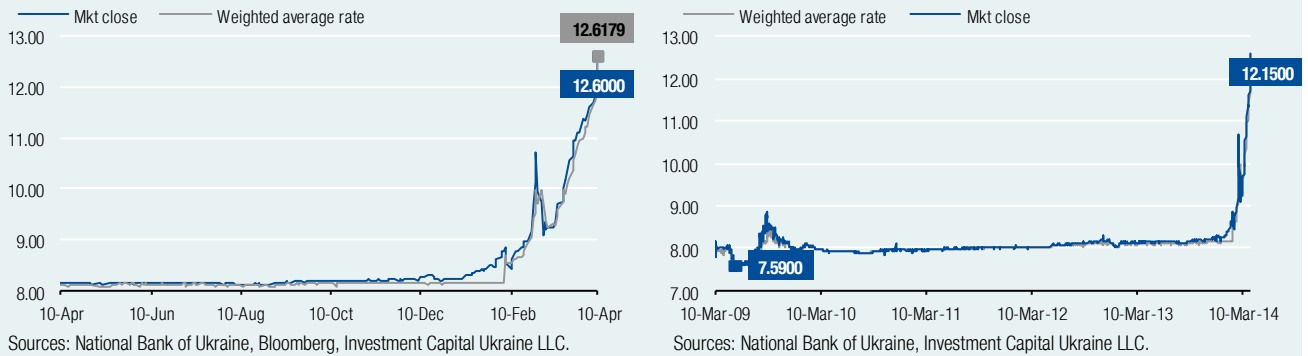


Chart 10. NDF market rates USD/UAH: last 12-month and 5-year periods (UAH per USD, left and right respectively)

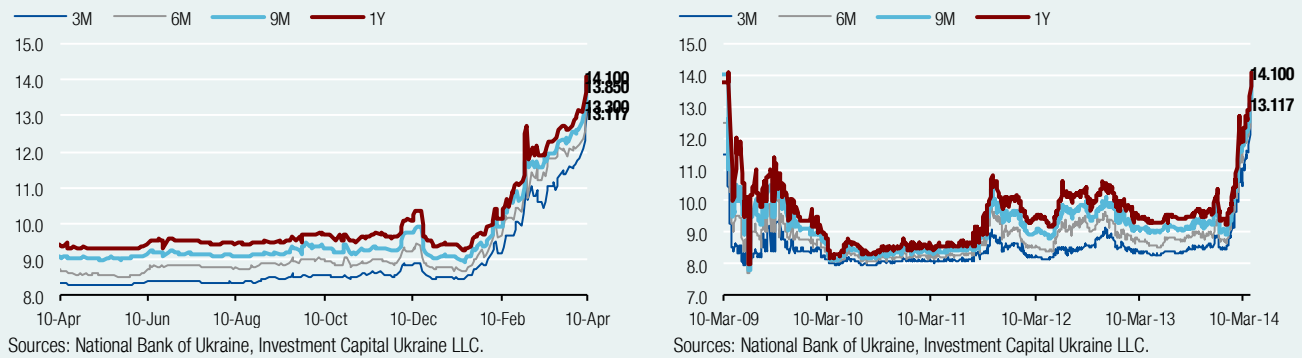


Chart 11. Trading volume: last 12-month and 5-year periods (US\$m, left and right respectively)

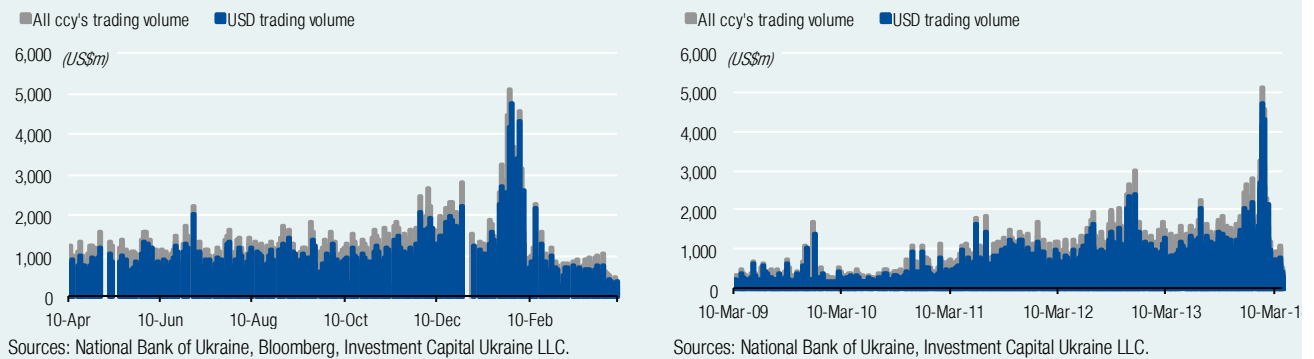
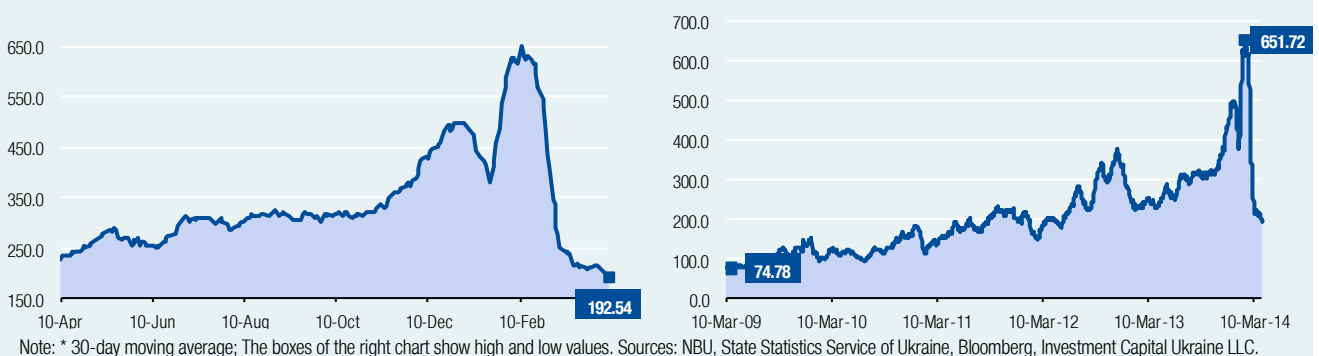


Chart 12. 30D MA\* ratio of FX market turnover to merchandise trade: last 12m and 5yr periods (%)

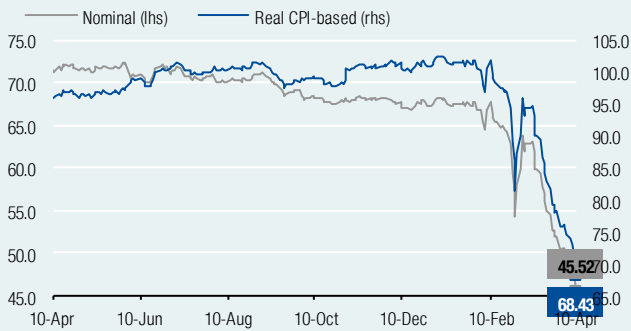




## Chart page #2: ICU's UAH trade-weighted indices

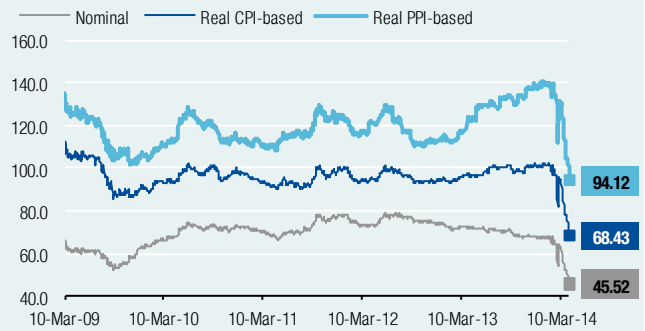
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



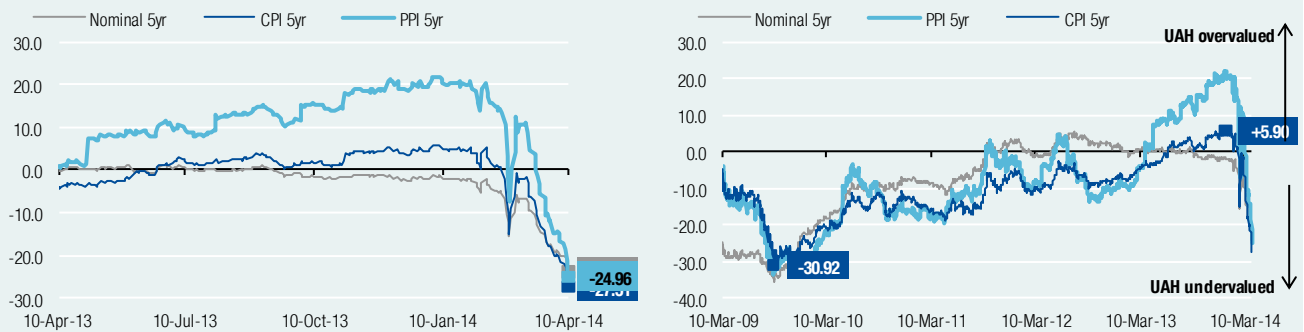
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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.

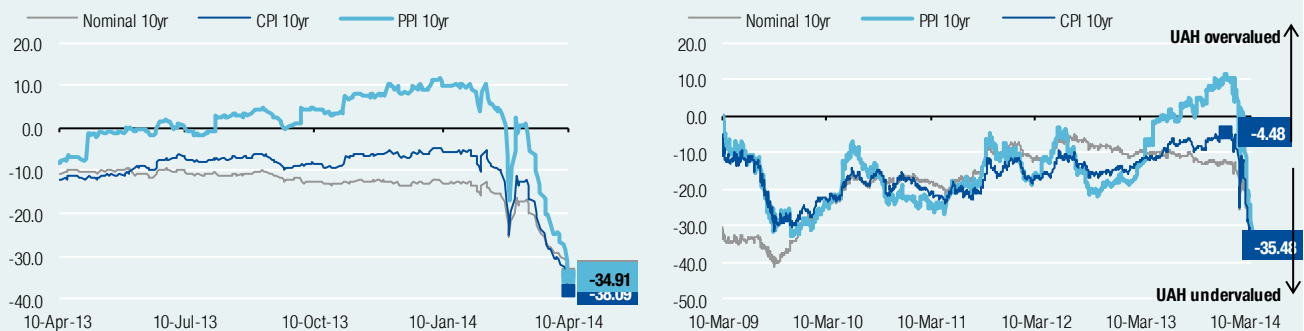
**Chart 15. Deviation of UAH trade-weighted indices from their 5-year moving averages: last 12-month and 5-year periods (% , left and right respectively)**



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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**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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