


 INVESTMENT CAPITAL UKRAINE
 INVESTMENT BANKING

Daily Insight

Liquidity down on reallocations; YTM's diverge;
 UAH slides dramatically

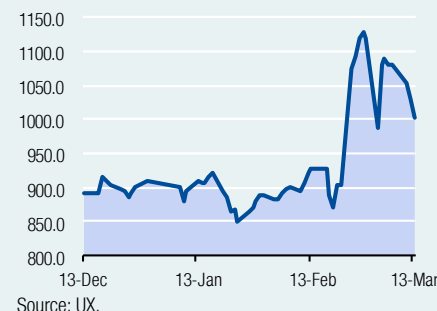
FRIDAY, 14 MARCH, 2014

RESEARCH INSIGHT

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UX Index (3 months to 14 Mar 2014)



Key market indicators (as of 13 Mar 2014)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	9.7000	+3.63	+17.72
USD/UAH (1Y NDF)	12.1000	+1.68	+28.45
EUR/USD	1.3868	-0.25	+0.91
USD/RUB	36.5435	+0.11	+11.18
KievPRIME O/N (%)	8.75	-275bp	+95bp
KievPRIME 1M (%)	23.38	+13bp	+713bp

BONDS: yields and spreads

Ukraine VAT bond (%)	N/A	+74bp	+0bp
Ukraine 17, Eurobond (%)	14.27	-9bp	+472bp
Ukraine 22, Eurobond (%)	10.86	-8bp	+152bp
Ukraine 23, Eurobond (%)	10.49	-18bp	+144bp
Ukraine 5Y CDS	1,255bp	-43bp	+438bp

EQUITIES

Stock market indices

UX (Ukraine)	1,001.79	-2.77	+10.08
MSCI World	403.91	-0.76	-1.14
MSCI EM	943.19	-0.15	-5.93
RTS (Russia)	1,077.89	-1.89	-25.29
WIG-20 (Poland)	2,339.37	-1.27	-2.57
S&P 500 (USA)	1,846.34	-1.17	-0.11

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

KER PW	4.21	36.8% of total ¹
FXPO LN	3.00	26.3%
AGT PW	1.53	13.4%

GAINERS: Top 3 stocks (in listed currency)

FORM UK	UAH 0.77	+10.00	+1.32
SGR PW	PLN 0.83	+3.75	+56.60
CLE PW	PLN 1.60	+3.23	+52.38

LOSERS: Top 3 stocks (in listed currency)

YASK UK	UAH 0.66	-8.75	+23.96
AGT PW	PLN 2.81	-7.26	+44.10
CAD LN	GBP 9.75	-7.14	-6.02

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 13-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 (%)
ENERGY																											
Cadogan Petrol...	CAD LN	London	9.75 GBP	-7.1	-11.4	-6.0	-29.7	0.16	37.4	-25.7	40.2	15.0	36.9	11.3	0.08	1,303	Neg.	Neg.	Neg.	3.9	3.9	8.0	Neg.	Neg.	Neg.	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	5.25 UAH	-1.6	+14.9	+10.1	-8.5	0.55	204.1	270.9	21.7	44.3	85.3	65.0	0.22	461	8.3	7.4	5.1	0.5	4.2	2.8	0.3	0.4	0.3	0.8	12.2
Coal Energy	CLE PW	Warsaw	1.60 PLN	+3.2	+44.1	+52.4	-84.1	0.52	23.6	81.4	25.0	5.9	607.7	411.4	12.87	8	Neg.	Neg.	N/A	1.3	11.2	N/A	0.6	0.9	N/A	0.2	7.7
Donbasenergo	DOEN UK	Kiev, UX	37.53 UAH	-3.7	+13.6	+36.0	+69.0	3.95	93.4	143.4	14.2	13.3	36.9	33.8	0.36	278	28.6	3.6	5.1	0.6	2.7	2.5	0.3	0.3	0.3	1.3	17.8
JKX Oil & Gas	JKX LN	London	63.00 GBP	-1.6	-8.0	-11.9	-13.1	1.05	179.6	176.6	47.2	84.8	129.9	67.7	0.10	997	Neg.	5.5	5.0	1.3	1.8	1.9	0.9	0.9	0.8	0.4	2.5
Regal Petroleum	RPT LN	London	11.00 GBP	+0.0	-6.4	-15.4	-61.4	0.18	58.6	31.7	80.9	47.4	0.0	10.0	0.03	3,888	5.0	11.7	N/A	1.4	1.9	N/A	0.8	N/A	N/A	0.2	0.0
Sadova Group	SGR PW	Warsaw	0.83 PLN	+3.8	+31.7	+56.6	-58.5	0.27	11.7	51.4	25.0	2.9	257.2	98.0	7.72	13	Neg.	N/A	N/A	7.7	N/A	N/A	1.3	N/A	N/A	0.3	42.4
Zakhidenergo	ZAEN UK	Kiev, PFTS	105.00 UAH	-5.0	-10.3	+16.2	+8.0	11.05	141.4	113.3	5.0	7.1	2.9	7.1	0.06	1,592	2.3	N/A	N/A	0.8	N/A	N/A	0.1	N/A	N/A	0.8	0.0
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.04 UAH	-1.0	+3.8	-2.9	-25.5	0.00	102.3	1,580.0	3.9	4.0	8.7	13.3	0.48	208	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	2.94 UAH	-1.9	+5.2	-0.7	-9.3	0.31	60.3	56.5	4.0	2.4	112.4	16.5	1.24	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	0.67 UAH	-4.0	+11.5	+0.1	+1.2	0.07	296.9	288.1	4.1	12.2	56.6	15.0	0.18	560	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.1	0.1	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	138.40 GBP	-4.0	-18.6	-27.5	-28.7	2.30	1,352.7	2,013.9	22.4	303.0	3,003.2	3,174.1	1.70	59	5.2	5.5	7.1	4.0	4.3	4.8	1.3	1.2	1.3	0.8	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.66 UAH	-8.8	+19.0	+24.0	-3.1	0.07	18.9	20.4	9.0	1.7	0.5	2.6	0.15	661	2.6	1.8	1.3	0.1	0.8	0.7	0.1	0.1	0.1	0.1	0.1
Yenakievo Steel	ENMZ UK	Kiev, UX	34.39 UAH	-4.1	+10.0	+7.4	-2.7	3.62	38.2	32.7	9.4	3.6	11.5	13.6	0.71	140	5.2	Neg.	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.8	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	1.19 EUR	-0.8	-1.7	-4.0	-34.6	1.65	152.3	179.8	34.0	51.8	19.7	36.2	0.09	1,175	Neg.	N/A	N/A	Neg.	N/A	N/A	2.7	N/A	N/A	1.3	35.9
Agroliga	AGL PW	Warsaw	21.49 PLN	+0.0	-11.9	-17.1	+15.7	7.03	10.8	11.7	16.7	1.8	14.8	15.2	1.63	61	2.5	N/A	N/A	3.4	N/A	N/A	0.5	N/A	N/A	0.8	5.7
Agroton	AGT PW	Warsaw	2.81 PLN	-7.3	+0.4	+44.1	-74.9	0.92	19.9	67.2	26.2	5.2	1,534.8	500.9	29.36	3	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	37.06 PLN	-2.5	-37.4	-44.6	-37.7	12.12	303.0	635.7	31.0	94.0	180.2	154.2	0.25	404	4.8	5.0	2.5	7.2	6.1	3.5	1.3	1.3	1.0	0.5	38.9
Avangard	AVGR LI	London Intl	8.75 USD	-2.8	-20.5	-25.5	-9.6	8.75	558.9	725.2	21.7	121.3	13.6	303.8	0.51	196	2.5	2.5	2.7	2.6	2.5	2.6	1.2	1.0	1.0	0.5	22.3
IMC	IMC PW	Warsaw	7.60 PLN	-2.6	-2.4	-37.4	-51.9	2.49	77.8	194.1	23.9	18.6	174.9	92.1	1.35	74	4.1	4.1	3.2	5.3	4.6	3.9	2.6	1.3	1.0	0.6	33.0
Kernel Holding...	KER PW	Warsaw	23.90 PLN	+3.0	-35.4	-37.2	-61.3	7.82	622.9	1,646.1	58.8	366.1	4,208.4	1,761.1	1.05	95	5.6	6.1	3.4	5.7	5.9	4.6	0.6	0.7	0.6	0.5	30.6
KSG Agro	KSG PW	Warsaw	5.85 PLN	+1.6	-23.2	-46.1	-53.7	1.91	28.7	150.6	34.4	9.9	4.5	17.2	0.43	231	3.5	2.4	2.4	35.7	5.1	4.1	4.0	2.2	1.4	0.3	29.2
MHP	MHPC LI	London Intl	12.34 USD	-5.1	-16.2	-27.6	-35.3	12.34	1,303.9	2,504.9	22.3	291.0	829.9	1,091.1	0.64	157	4.4	6.4	4.7	5.4	6.0	4.9	1.8	1.7	1.5	1.1	45.8
Milkiland	MLK PW	Warsaw	7.58 PLN	-0.3	-22.1	-39.4	-50.1	2.48	77.5	213.8	20.0	15.5	1.9	13.4	0.22	451	4.4	4.3	4.2	6.0	5.2	4.2	0.5	0.5	0.4	0.3	29.9
Mriya Agrohold...	MAYA GF	Frankfurt	5.46 EUR	-2.4	+8.5	+1.2	+16.5	7.57	804.4	1,536.3	20.0	160.9	0.0	2.5	0.00	47,037	4.6	5.0	5.3	6.7	5.8	6.2	4.4	4.1	3.6	0.9	34.8
Ovostar Union	OVO PW	Warsaw	69.00 PLN	+1.9	-5.5	-31.0	-31.0	22.57	135.4	147.4	25.0	33.9	12.9	58.0	0.20	492	5.8	5.2	3.6	5.3	5.3	3.3	2.1	1.8	1.3	1.3	3.7
TRANSPORTATION																											
KDM Shipping	KDM PW	Warsaw	13.50 PLN	+0.7	-56.4	-57.0	-58.5	4.42	41.0	25.0	10.9	4.5	0.2	0.8	0.06	1,624	3.3	N/A	N/A	1.7	N/A	N/A	0.9	N/A	N/A	0.7	8.3
CONSTRUCTION																											
TMM	TR61 GF	Xetra	0.31 EUR	+0.0	+10.3	-2.2	-44.8	0.43	22.3	181.6	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
FINANCIAL SERVICES																											
Forum Bank	FORM UK	Kiev, UX	0.77 UAH	+10.0	+10.5	+1.3	+18.8	0.08	48.1	N/A	5.5	2.6	2.6	2.3	0.07	1,533	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.4	18.6
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.14 UAH	-2.1	+24.8	+26.0	+27.1	0.02	451.2	N/A	3.8	17.2	72.0	52.3	0.44	229	13.4	7.7	4.1	N/A	N/A	N/A	N/A	N/A	N/A	0.6	28.3

Table 1. Ukrainian stocks (closing prices as of 13-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 (%)		
Ukrsotsbank	USCB UK	Kiev, UX	0.17 UAH	-1.4	+4.9	-8.3	+37.1	0.02	328.4	N/A	4.5	14.7	5.3	8.3	0.06	1,678	1,030.8	190.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	30.9

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

[Analyst's name.]

Liquidity reallocation and slight decline

Banking sector liquidity yesterday slightly declined as broader banking sector liquidity fell UAH1.09bn to UAH37.81bn after the NBU absorbed UAH2.12bn in MoF domestic debt redemptions and interest repayments. Due to this reallocation and outflows, banks' correspondent accounts with the NBU fell UAH1.02bn to UAH28.63bn, while total CDs outstanding rose UAH2.12bn to UAH5.23bn and total local currency debt repayments scheduled for the next 30 days fell UAH2.18bn to UAH3.95bn.

KyivPrime interest rates slightly diverged: the KyivPrime ON interest rate fell 275bp to 8.75% while the KyivPrime 1M interest rate rose a mere 13bp to 23.38%.

Investment implications: Yesterday's liquidity decline and reallocation of funds looks like MoF funds and some liquidity were absorbed by the NBU via CDs, especially due to the significant increase in loans issued by the NBU. This looks like part of the funds from debt repayments was also received by the NBU, and the MoF received about UAH0.68bn from the primary auction held on Wednesday.

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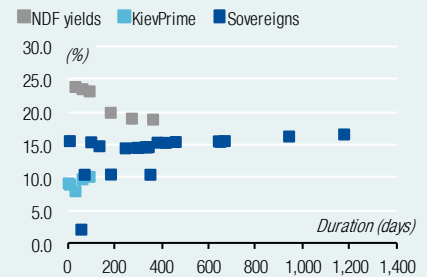
YTM's diverge slightly

Ukrainian Eurobonds remained unstable yesterday. The yield curve moved to the range of 10.48-17.69%, excluding UKRAIN 7.95% '14 which YTM slid to 43.14% and UKRAIN 5.00% '15 which routinely remain low. At the close, YTM's slightly diverged, including UKRAIN 6.875% '15 rose 137bp to 17.69%, UKRAIN 7.95% '21 rose 53bp to 11.46%, while UKRAIN 9.25% '17 slid 10bp to 14.27%, UKRAIN 7.80% '22 slid 7bp to 10.86% and UKRAIN 7.50% '23 slid 18bp to 10.48%. The 5-year CDS declined to 1,255bp.

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Yield curve of the local bond market

(as of market close on 13 Mar 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 13 Mar 2014)

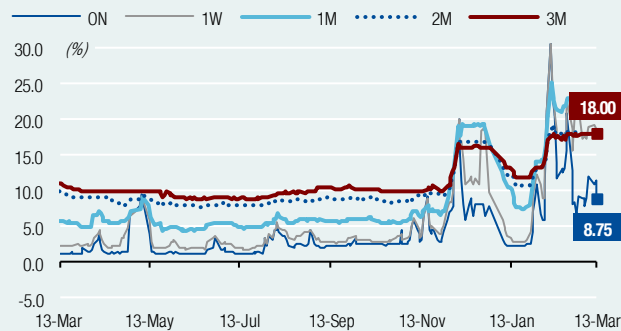
	Last	Daily	Weekly	MoM	YTD
		chg (%)	chg (%)	chg (%)	chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
0/n	8.75	-275bp	-25bp	-525bp	+95bp
1wk	17.75	-100bp	+35bp	-100bp	+795bp
1m	23.38	+13bp	+38bp	+188bp	+713bp
2m	18.13	-25bp	+0bp	+8bp	+173bp
3m	18.00	+0bp	+0bp	+48bp	+200bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's ¹	28,630	-3.43	+14.36	+20.94	-12.45
CDs ²	8,249	+107.9	+5.95	+658.2	+442.7
Sovgns ³	3,947	+0.00	-27.79	-19.63	+164.1
Total	40,826	+8.69	+6.63	+37.59	+14.30
HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	169,643	-0.24	+1.01	+14.28	+17.12
Banks	77,875	-0.66	-2.73	-2.80	-2.86
Resid's ⁴	11,114	-1.80	-1.84	-1.77	-10.34
Non-res ⁵	13,391	-0.17	-1.47	+3.99	+14.47
Total	272,023	-0.42	-0.33	+7.62	+9.20
NDF IMPLIED YIELDS (%)					
3m	50.84	-253bp	-26ppt	+10bp	+39bp
6m	39.56	-229bp	-12ppt	+940bp	+26bp
9m	28.66	-704bp	-869bp	+530bp	+15bp
1yr	25.44	-241bp	-740bp	+304bp	+10bp
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	N/A	+74bp	+0bp	+0bp	+0bp
EUROBONDS USD SOVEREIGN BOND YIELDS (%)					
CDS 5yr	1,255	-43bp	+174bp	+50bp	+438bp
Jun '16	14.47	+32bp	+281bp	+106bp	+558bp
Jul '17	14.27	-9bp	+172bp	+125bp	+472bp
Sep '20	11.50	-7bp	+118bp	+60bp	+231bp
Sep '21	11.47	-8bp	+128bp	+71bp	+225bp
Sep '22	10.86	-8bp	+107bp	+9bp	+152bp
Feb '23	10.49	-18bp	+87bp	+24bp	+144bp

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



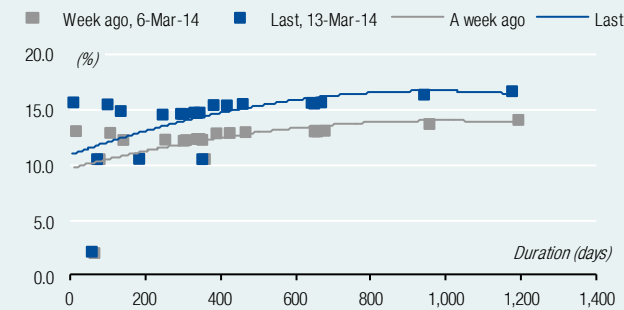
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



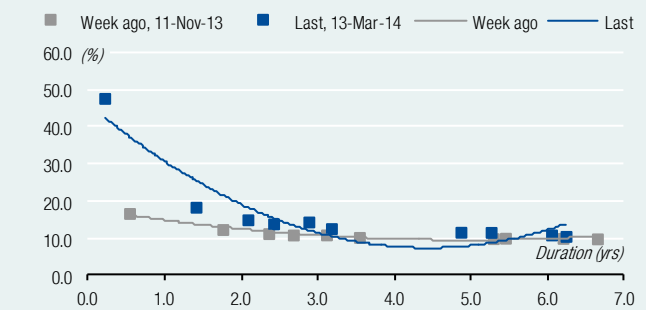
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 13 Mar 2014



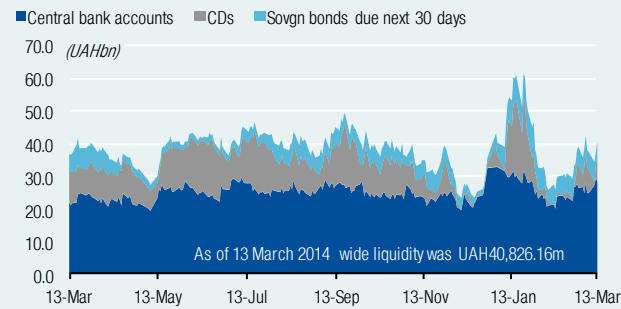
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 13 Mar 2014



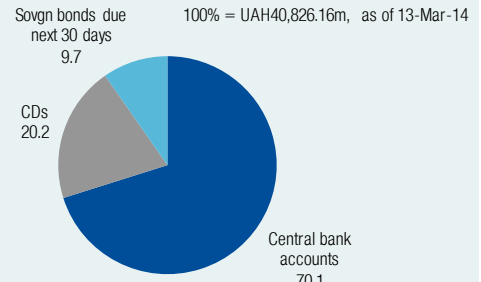
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



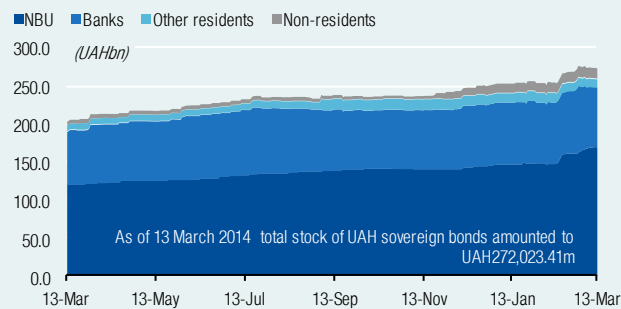
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 13 Mar 2014



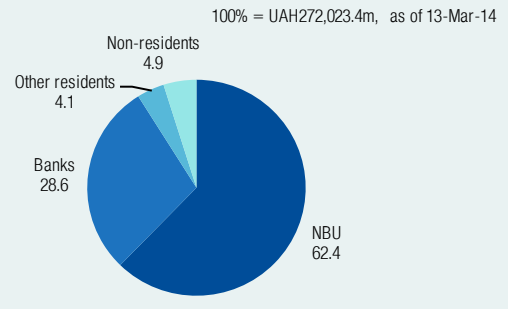
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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



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

Chart 8. Domestic sovereign debt (%) as of 13 Mar 2014



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

FX: News & Comments

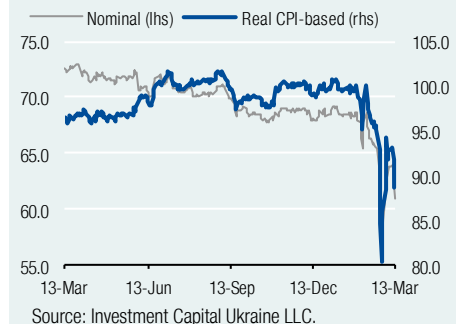
UAH slides dramatically

As the Russian military increased its presence on the Ukraine's eastern and north borders thus intensifying the crisis, the UAH dropped 3.63% to close at 9.70/USD on US\$0.64bn in trading. Tension intensified last night when three people were killed in Donetsk when pro-Ukrainian and pro-Russian supporters at mass rallies began to fight, pushing market sentiment down even further.

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ICU's UAH trade-weighted indices

(Last 12-month history to 14 Mar 2014)



FX market indicators (as of 13 Mar 2014)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	9.7000	+3.63	+5.43	+10.35	+17.72
NBU avg	9.4759	+2.09	+0.94	+9.79	+16.26
Ttl vlm ¹	754.21	+6.64	+1.96	-37.31	-73.08
\$ volume ²	642.04	+4.04	+1.67	-33.36	-70.96
NDF 3M	10.9240	+3.06	-0.24	+12.97	+28.74
NDF 6M	11.6000	+2.65	+0.31	+14.85	+32.12
NDF 1Y	12.1000	+1.68	-0.44	+13.08	+28.45
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	60.853	-3.39	-4.59	-8.30	-11.20
UAH real CPI	88.603	-3.39	-4.59	-8.30	-11.20
UAH real PPI	118.100	-3.39	-4.59	-8.30	-11.20
USD nom'l	79.620	+0.02	-0.05	-0.88	-0.52
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	36.5435	+0.11	+1.00	+3.91	+11.18
EUR/USD	1.3868	-0.25	+0.05	+1.37	+0.91
USD/CNY	6.1373	-0.14	+0.30	+1.21	+1.37
USD/PLN	3.0560	+0.58	+1.40	+0.49	+1.09
USD/TRY	2.2325	+0.01	+2.40	+2.21	+3.92
USD/BYR	9,840.00	+0.25	+0.46	+1.39	+3.14
USD/KZT	182.1500	-0.19	-0.20	-1.28	+18.07
OTHER MAJOR CURRENCIES					
USD/JPY	101.8400	-0.90	-1.19	-0.32	-3.30
GBP/USD	1.6624	+0.03	-0.69	-0.21	+0.40
USD/CHF	0.8747	+0.08	-0.67	-2.09	-2.04
AUD/USD	0.9031	+0.48	-0.65	+0.58	+1.28
USD/CAD	1.1076	-0.38	+0.83	+0.90	+4.26
USD/BRL	2.3640	+0.36	+1.73	-1.23	+0.08
USD/KRW	1,069.30	-0.11	+0.49	+0.29	+1.86
COMMODITIES					
Gold(\$/oz)	1,370.14	+0.24	+1.43	+5.16	+13.64
WTI crude ³	N/A	N/A	N/A	N/A	N/A
Brent crd ³	N/A	N/A	N/A	N/A	N/A
Urals crd ³	N/A	N/A	N/A	N/A	N/A
TR/J CRB ⁴	302.65	-0.11	-1.61	+3.45	+8.02

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>).

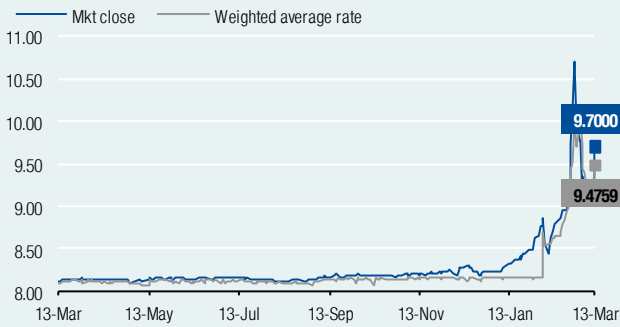
Section on FX market is continued on next page.

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.

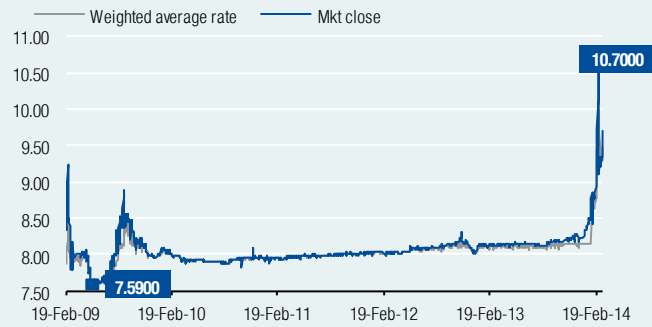
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

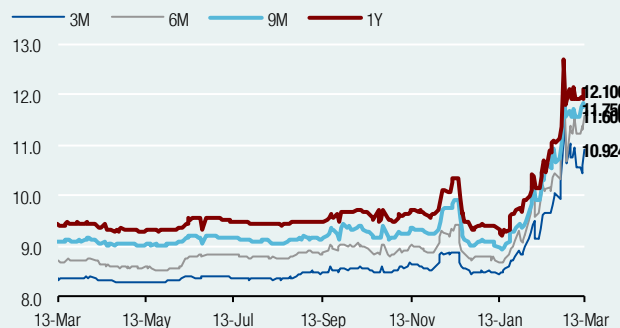


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

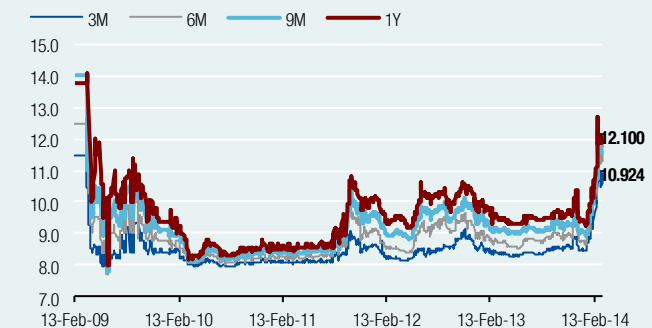


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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.

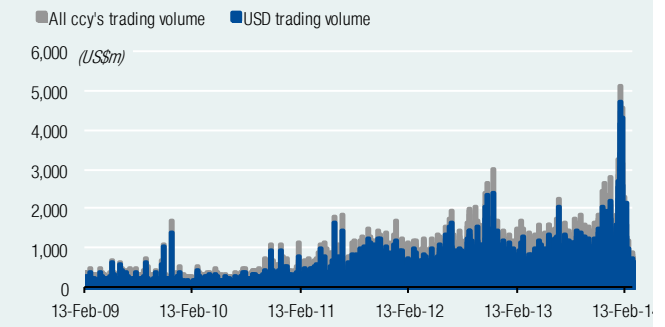


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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)



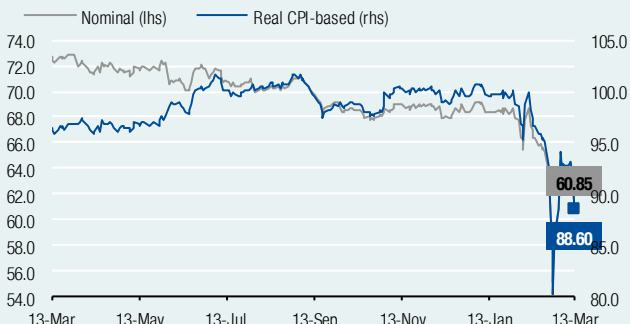
Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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

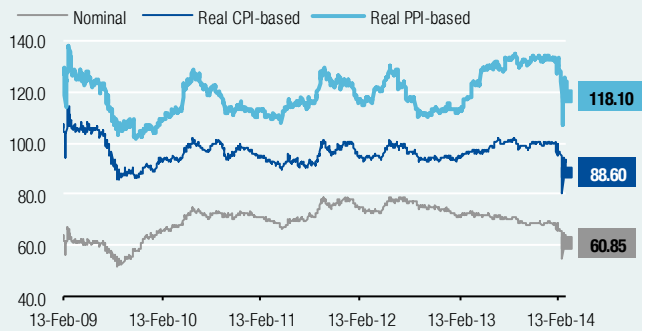
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

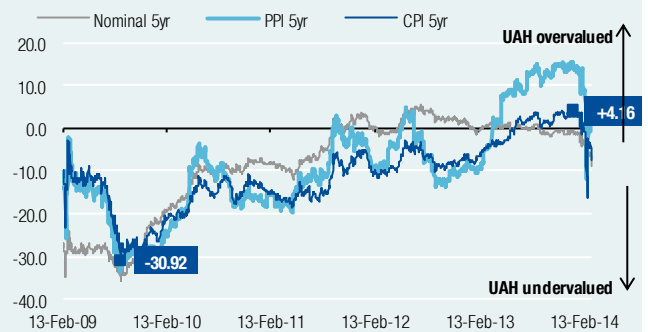


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

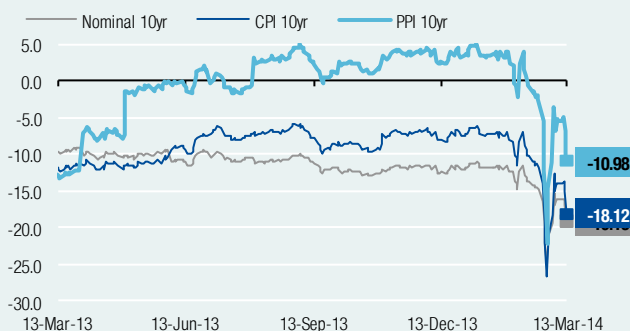


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.



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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