


INVESTMENT CAPITAL UKRAINE
 INVESTMENT BANKING

Daily Insight

Liquidity up; Eurobonds rebound; UAH up

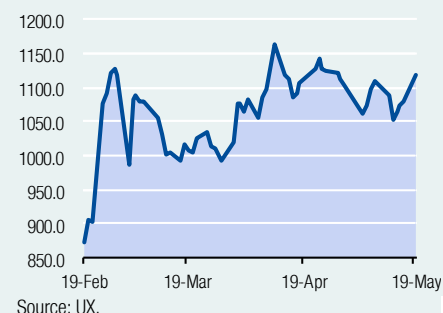
TUESDAY, 20 MAY, 2014

RESEARCH INSIGHT

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UX Index (3 months to 20 May 2014)



Key market indicators (as of 19 May 2014)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	11.9500	-0.08	+45.02
USD/UAH (1Y NDF)	14.2500	+0.35	+51.27
EUR/USD	1.3709	+0.11	-0.25
USD/RUB	34.5449	-0.60	+5.10
KievPRIME O/N (%)	5.00	-25bp	-280bp
KievPRIME 1M (%)	17.70	-40bp	+145bp

BONDS: yields and spreads

Ukraine VAT bond (%)	N/A	-8,900bp	-8,900bp
Ukraine 17, Eurobond (%)	11.03	-100bp	+147bp
Ukraine 22, Eurobond (%)	9.74	-27bp	+39bp
Ukraine 23, Eurobond (%)	9.40	-32bp	+36bp
Ukraine 5Y CDS	1,064bp	-58bp	+247bp

EQUITIES

Stock market indices

UX (Ukraine)	1,118.18	+3.41	+22.87
MSCI World	415.44	+0.15	+1.69
MSCI EM	1,035.43	+0.34	+3.27
RTS (Russia)	1,289.98	+2.22	-10.59
WIG-20 (Poland)	2,400.11	+0.30	-0.04
S&P 500 (USA)	1,885.08	+0.38	+1.99

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

KER PW	2.19	52.7% of total ¹
FXPO LN	1.07	25.6%
MHPC LI	0.56	13.5%

GAINERS: Top 3 stocks (in listed currency)

OVO PW	PLN 68.50	+5.06	-31.50
CEEN UK	UAH 6.21	+4.32	+30.24
DOEN UK	UAH 43.25	+3.37	+56.76

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. 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 19-May-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	8.50 GBP	-6.8	-6.8	-18.1	-39.8	0.14	33.0	-30.1	40.2	13.3	0.9	8.8	0.07	1,519	Neg.	Neg.	Neg.	4.6	9.4	18.8	Neg.	Neg.	Neg.	0.2	0.0
Centrenergo	CEEN UK	Kiev, UX	6.21 UAH	+4.3	+6.1	+30.2	+43.1	0.52	192.0	245.1	21.7	41.7	155.6	135.6	0.31	325	4.7	7.8	3.2	0.4	3.4	2.1	0.4	0.3	0.3	0.9	12.2
Coal Energy	CLE PW	Warsaw	1.22 PLN	+1.7	-4.7	+16.2	-75.6	0.40	18.0	112.3	25.0	4.5	15.7	249.9	1.40	71	Neg.	Neg.	4.5	5.0	14.0	3.9	0.9	1.1	1.0	0.2	39.8
Donbasenergo	DOEN UK	Kiev, UX	43.25 UAH	+3.4	+2.1	+56.8	+108.1	3.62	85.6	125.3	14.2	12.2	41.2	45.5	0.43	235	1.9	2.6	2.6	0.5	1.7	1.5	0.3	0.2	0.2	1.6	17.8
JKX Oil & Gas	JKX LN	London	59.50 GBP	+1.7	+2.6	-16.8	+0.4	1.00	171.8	178.2	47.2	81.1	0.0	92.2	0.05	1,871	26.4	13.2	6.2	2.7	2.0	2.0	1.0	0.9	0.8	0.3	5.5
Regal Petroleum	RPT LN	London	8.88 GBP	+0.0	-13.4	-31.7	-61.0	0.15	47.8	21.0	80.9	38.7	0.0	6.9	0.01	7,282	Neg.	N/A	N/A	0.9	N/A	N/A	0.6	N/A	N/A	0.2	0.0
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.03 UAH	+1.3	-7.2	-17.6	-28.7	0.00	69.0	1,243.8	3.9	2.7	4.0	10.8	0.31	321	Neg.	N/A	N/A	N/A	N/A	N/A	1.0	N/A	N/A	N/A	64.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	3.08 UAH	+2.4	+4.1	+3.9	-3.8	0.26	50.2	47.2	4.0	2.0	6.0	16.2	0.40	253	Neg.	2.0	0.8	Neg.	0.7	0.4	0.1	0.1	0.0	0.1	0.0
Azovstal	AZST UK	Kiev, UX	0.72 UAH	+3.2	+2.9	+7.5	+20.0	0.06	253.3	246.3	4.1	10.4	10.6	12.5	0.07	1,501	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.1	0.1	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	138.80 GBP	-2.4	-7.6	-25.3	-24.6	2.33	1,373.4	2,034.6	22.4	307.6	1,065.7	2,739.8	0.37	270	5.2	5.6	6.5	4.1	4.4	4.8	1.3	1.3	1.3	0.8	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.61 UAH	+2.3	-18.1	+15.8	+6.8	0.05	14.1	15.2	9.0	1.3	5.4	1.9	0.20	504	Neg.	0.8	0.7	0.1	0.5	0.4	0.1	0.0	0.0	0.1	0.1
Yenakievo Steel	ENMZ UK	Kiev, UX	34.53 UAH	+1.9	-1.7	+7.9	+1.4	2.89	30.5	26.1	9.4	2.9	2.1	12.1	0.14	713	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	0.99 EUR	+0.0	-10.0	-20.2	-37.7	1.36	125.3	152.5	34.0	42.6	4.2	39.9	0.08	1,193	Neg.	N/A	N/A	Neg.	N/A	N/A	2.3	N/A	N/A	1.1	35.9
Agroliga	AGL PW	Warsaw	17.70 PLN	-0.6	+4.7	-31.7	+2.3	5.79	8.9	9.8	16.7	1.5	2.8	10.9	0.26	392	2.1	N/A	N/A	2.8	N/A	N/A	0.4	N/A	N/A	0.7	5.7
Agroton	AGT PW	Warsaw	2.35 PLN	+0.9	+8.8	+20.5	-21.7	0.77	16.7	64.0	26.2	4.4	20.1	460.4	2.38	42	2.5	Neg.	2.4	4.5	6.1	4.0	0.7	0.7	0.8	0.1	28.0
Astarta Holdin...	AST PW	Warsaw	39.50 PLN	-1.0	-0.4	-41.0	-31.9	12.93	323.1	643.2	31.0	100.2	7.3	175.1	0.14	705	9.2	8.6	4.5	8.5	4.8	5.2	1.3	1.3	1.2	0.9	38.2
Avangard	AVGR LI	London Intl	8.85 USD	+0.0	-9.0	-24.7	-2.2	8.85	565.3	796.2	21.7	122.7	0.0	340.6	0.10	990	2.4	2.8	2.5	2.6	2.9	2.8	1.2	1.2	1.1	0.0	17.8
IMC	IMC PW	Warsaw	8.60 PLN	+2.9	+1.2	-29.2	-27.1	2.81	88.1	213.3	23.9	21.0	10.3	92.3	0.15	674	3.4	3.4	1.9	3.9	3.7	3.0	1.9	1.1	0.9	0.6	38.7
Kernel Holding...	KER PW	Warsaw	27.31 PLN	+2.9	-5.2	-28.3	-55.9	8.94	712.1	1,735.4	58.8	418.5	2,194.3	2,901.5	0.54	184	6.4	10.8	4.1	6.0	6.5	4.9	0.6	0.7	0.6	0.6	30.6
MHP	MHPC LI	London Intl	14.26 USD	-2.3	+18.8	-16.4	-21.9	14.26	1,506.8	2,667.7	22.3	336.3	560.7	1,867.7	0.63	159	9.7	5.6	4.9	6.8	5.5	5.0	1.8	1.7	1.5	2.6	19.6
Milkiland	MLK PW	Warsaw	5.55 PLN	-3.3	-25.9	-55.6	-49.6	1.82	56.8	188.1	20.0	11.4	4.1	10.3	0.05	1,903	3.8	6.4	2.0	5.7	3.6	3.3	0.4	0.4	0.4	0.2	30.8
Miriya Agrohold...	MAYA GF	Frankfurt	4.90 EUR	+0.0	+7.8	-9.3	+16.8	6.72	713.6	1,445.5	20.0	142.7	2.0	7.5	0.01	8,378	4.1	5.0	8.2	6.3	5.6	5.3	4.2	3.9	3.4	0.8	34.8
Ovostar Union	OVO PW	Warsaw	68.50 PLN	+5.1	-0.7	-31.5	-19.9	22.41	134.5	143.3	25.0	33.6	7.2	29.7	0.01	9,019	4.4	6.7	6.6	3.9	4.9	4.5	1.6	1.6	1.3	1.0	8.5
TRANSPORTATION																											
KDM Shipping	KDM PW	Warsaw	10.50 PLN	-4.5	-20.8	-66.5	-71.2	3.44	31.9	15.9	10.9	3.5	0.6	2.1	0.00	20,464	2.6	N/A	N/A	1.1	N/A	N/A	0.6	N/A	N/A	0.6	8.3
CONSTRUCTION																											
TMM	TR61 GF	Xetra	0.14 EUR	+0.0	+0.0	-55.8	-60.0	0.19	9.9	169.3	13.1	1.3	0.0	0.1	0.02	4,948	Neg.	N/A	N/A	Neg.	N/A	N/A	7.8	N/A	N/A	0.1	44.1
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.16 UAH	+3.3	-8.0	+42.6	+56.6	0.01	405.9	N/A	3.8	15.5	43.6	59.9	0.39	255	4.8	Neg.	14.7	N/A	N/A	N/A	N/A	N/A	N/A	0.7	28.3
Ukrsotsbank	USCB UK	Kiev, UX	0.16 UAH	+2.9	+1.1	-16.0	+28.0	0.01	239.1	N/A	4.5	10.7	1.3	3.8	0.01	7,086	Neg.	N/A	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 19-May-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 recovers slightly

Although liquidity began this week with a slight recovery as the result of last Friday's cash-flows, it could decline if the NBU provides no support liquidity because of scheduled tax payments. Banks' correspondent accounts with the NBU recovered UAH1.24bn to UAH29.46bn yesterday while total CDs outstanding declined UAH0.37bn to UAH6.65bn. Total local currency debt repayments scheduled for the next 30 days remained steady at UAH3.91bn. As a result, broader banking sector liquidity rose UAH0.87bn to UAH40.03bn.

KyivPrime interest rates slightly declined: the KyivPrime ON interest rate slid 25bp to 5.00% and the KyivPrime 1M interest rate declined 40bp to 17.70.

Investment implications: Banks' correspondent accounts with the NBU rose partially due to NBU inflows, via CD redemptions (UAH0.37bn) and ON loans (UA0.28bn). The rest of the increase could be from funds reserved for tax payments or future FX purchasing.

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Eurobonds rebound

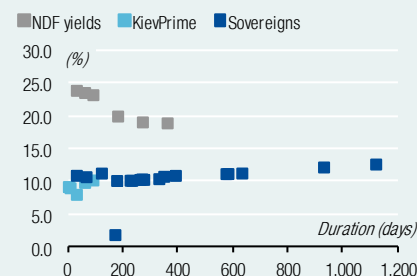
Last week's new Eurobond placement, combined with news that Russia will move its army from the eastern Ukrainian border, had a positive impact on yields. YTM of Ukrainian Eurobonds moved down significantly yesterday, adjusting the yield curve to the range of 9.41-12.39%, as UKRAIN 6.875% '15 slid 121bp to 12.39%, UKRAIN 9.25% '17 slid 101bp to 11.02%, while UKRAIN 7.95% '21, UKRAIN 7.80% '22 and UKRAIN 7.50% '23 decline below 10.0%, 41bp, 28bp and 33bp to 9.82%, 9.74% and 9.41%, respectively.

Investment implications: Ukrainian risks remain high but spreads significantly tightened over the last few days due to lower risks of problems with debt repayments and a slight improvement in the political situation. If conditions in Ukraine remain steady or improve, spreads should continue to tighten and yields should decline further.

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Yield curve of the local bond market

(as of market close on 19 May 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 19 May 2014)

	Last	Daily	Weekly	MoM	YTD
		chg (%)	chg (%)	chg (%)	chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
0/n	5.00	-25bp	-31bp	-50bp	-280bp
1wk	9.60	-50bp	-40bp	-150bp	-20bp
1m	17.70	-40bp	-30bp	-200bp	+145bp
2m	18.20	+10bp	-5bp	+0bp	+180bp
3m	18.10	+0bp	-3bp	+10bp	+210bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's ¹	29,461	+4.41	-3.23	-6.38	-9.91
CDs ²	6,654	-46.40	+5.57	-56.93	+337.8
Sovgns ³	4,768	+20.39	-14.75	-11.41	+218.9
Total	40,883	-8.32	-3.44	-21.83	+14.46
HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	174,812	+0.00	+0.00	+2.42	+20.68
Banks	88,154	+0.44	+1.95	+1.84	+9.96
Resid's ⁴	10,720	+0.17	-0.11	-0.26	-13.53
Non-res ⁵	16,305	+0.67	+1.17	+3.84	+39.37
Total	289,990	+0.18	+0.65	+2.22	+16.41
NDF IMPLIED YIELDS (%)					
3m	25.38	+371bp	-86bp	-23ppt	+13bp
6m	21.23	+102bp	-225bp	-781bp	+782bp
9m	20.51	+69bp	-216bp	-445bp	+650bp
1yr	19.88	+52bp	-40bp	-185bp	+490bp
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	-89ppt	+0bp	+0bp	-89ppt
EUROBONDS USD SOVEREIGN BOND YIELDS (%)					
CDS 5yr	1,064	-58bp	-114bp	-66bp	+247bp
Jun '16	11.06	-115bp	-345bp	-152bp	+217bp
Jul '17	11.03	-100bp	-246bp	-125bp	+147bp
Sep '20	9.73	-62bp	-123bp	-56bp	+54bp
Sep '21	9.81	-40bp	-121bp	-46bp	+59bp
Sep '22	9.74	-27bp	-84bp	-32bp	+39bp
Feb '23	9.40	-32bp	-81bp	-32bp	+36bp

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

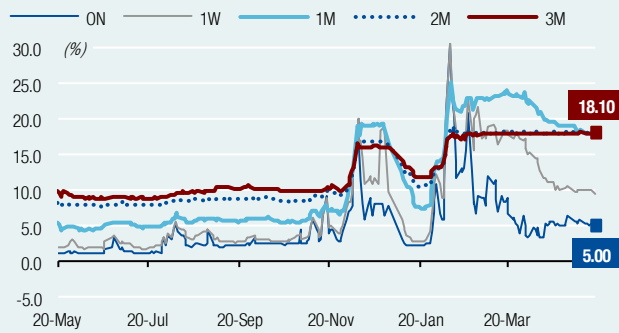


Chart 2. UAH NDF implied yields (%), last 12-month period

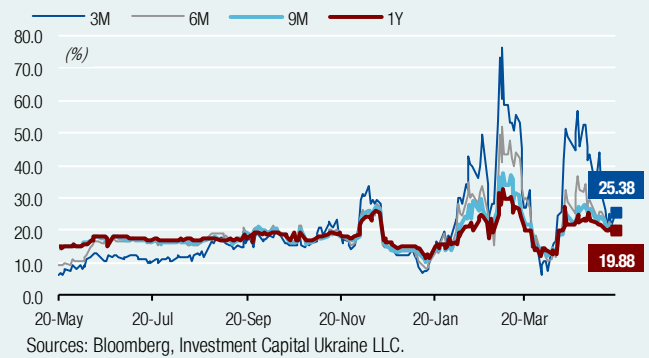


Chart 3. UAH sovereign yield curve (%) as of 19 May 2014

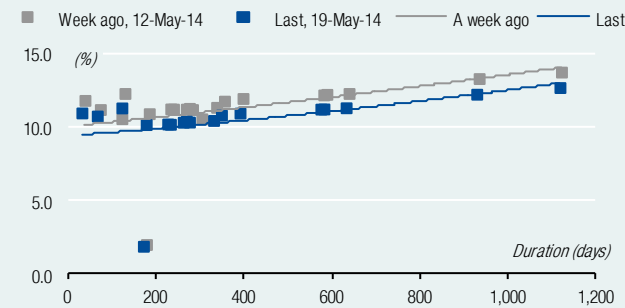


Chart 4. USD sovereign yield curve (%) as of 19 May 2014

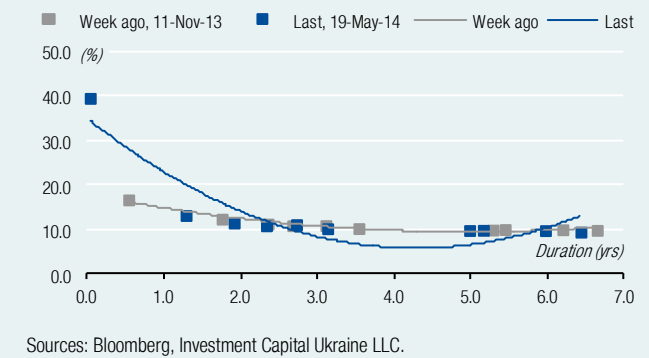


Chart 5. Banking sector liquidity (UAHbn), last 12-month period

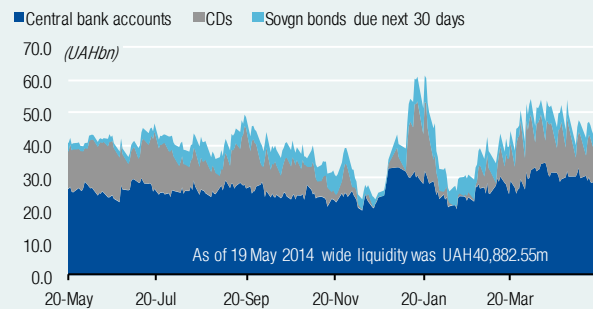


Chart 6. Breakdown of liquidity pool (%) as of 19 May 2014

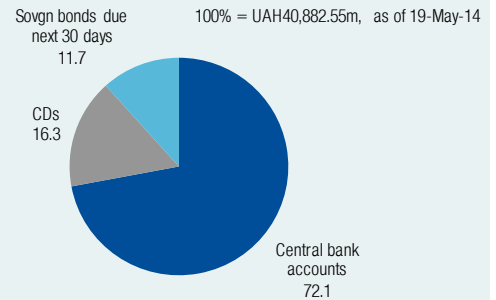


Chart 7. Holders of sovereign bonds (UAHbn), last 12 months

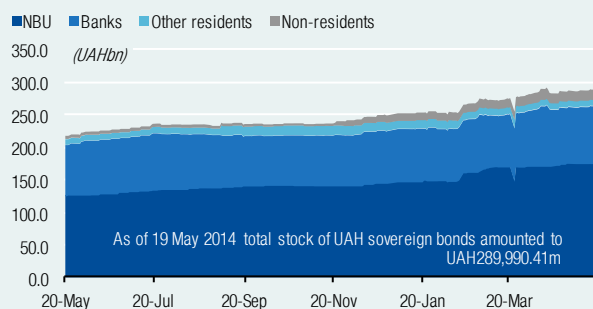
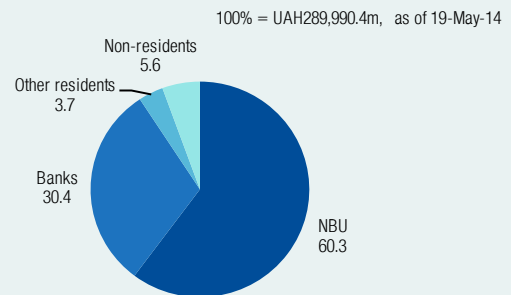


Chart 8. Domestic sovereign debt (%) as of 19 May 2014



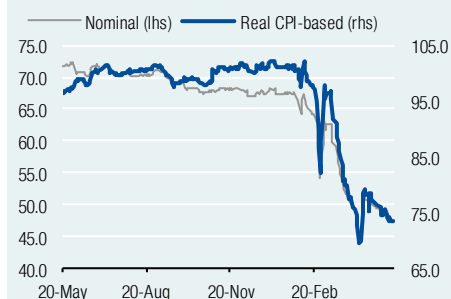
FX: News & Comments

UAH up, stronger RUB adds to UAH's real decline

The UAH increased 0.08% versus the US dollar on US\$204m in trading volume yesterday on news of the NBU's extension of the 50% share of surrender requirement on exporters. While the regulation should provide additional FX to the market, the private sector considers this to be a sign of a weak NBU balance sheet despite the fact the central bank recently received the first tranche of IMF assistance. Moreover, the RUB gained 0.60% to close at 34.5449/USD yesterday, up 1.55% over the past week, in reaction to Putin's order to withdraw military troops from Ukraine's border, thus decreasing the risk of further sanctions on Russia from the West. The RUB's real trade-weighted index rose 2.4% yesterday and 17.2% over past month, weakening the Russian economy as it decreases competitiveness; a stronger RUB in real terms means that it will depreciate in the future. The UAH's real TWI fell 0.14% yesterday, down 27.44% YTD.

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ICU's UAH trade-weighted indices
(Last 12-month history to 20 May 2014)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 19 May 2014)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)

USD/UAH MARKET (HRYVNIA per US DOLLAR)

Spot mkt	11.9500	-0.08	+1.40	+5.75	+45.02
NBU avg	11.7521	-0.03	+1.26	+4.67	+44.18
Tt vlm ¹	305.90	-11.37	-3.53	-24.67	-89.08
\$ volume ²	203.73	-14.99	-12.25	-37.20	-90.78
NDF 3M	12.7000	+0.79	+1.20	+1.60	+49.68
NDF 6M	13.2000	+0.38	+0.38	+3.53	+50.34
NDF 1Y	14.2500	+0.35	+1.06	+5.56	+51.27

TRADE-WEIGHTED INDICES (TWIs, points)

UAH nom'l	47.562	-0.14	-1.73	-6.17	-29.58
UAH real CPI	73.334	-0.14	-1.73	-6.17	-27.44
UAH real PPI	101.583	-0.14	-1.73	-6.17	-26.81
USD nom'l	79.993	-0.06	+0.12	+0.18	-0.05

FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs

USD/RUB	34.5449	-0.60	-1.55	-2.89	+5.10
EUR/USD	1.3709	+0.11	-0.35	-0.75	-0.25
USD/CNY	6.2373	+0.06	+0.01	+0.21	+3.02
USD/PLN	3.0554	-0.17	+0.52	+0.91	+1.07
USD/TRY	2.0966	-0.09	+0.76	-1.55	-2.40
USD/BYR	10,070.00	+0.37	+0.40	+1.16	+5.56
USD/KZT	182.1400	+0.04	+0.05	+0.04	+18.07

OTHER MAJOR CURRENCIES

USD/JPY	101.5000	+0.00	-0.62	-0.91	-3.62
GBP/USD	1.6814	+0.02	-0.32	+0.12	+1.55
USD/CHF	0.8923	-0.04	+0.51	+1.00	-0.07
AUD/USD	0.9330	-0.32	-0.34	-0.03	+4.63
USD/CAD	1.0875	+0.13	-0.19	-1.35	+2.37
USD/BRL	2.2069	-0.36	-0.34	-1.33	-6.57
USD/KRW	1,022.06	-0.21	-0.24	-1.50	-2.64

COMMODITIES

Gold(\$/oz)	1,293.07	-0.03	-0.21	-0.10	+7.25
WTI crude ³	102.61	+0.58	+2.01	-1.62	+4.26
Brent crd ³	110.71	+0.40	+2.32	+0.91	-0.10
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	306.83	+0.30	+0.43	-1.49	+9.52

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.

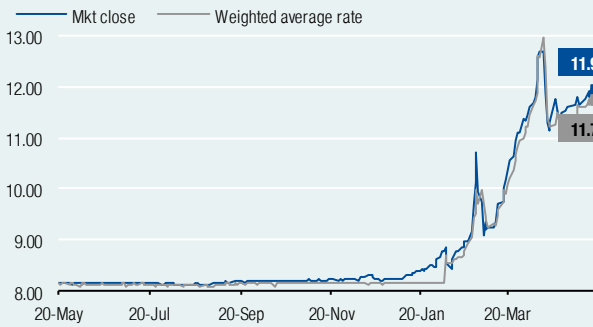
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

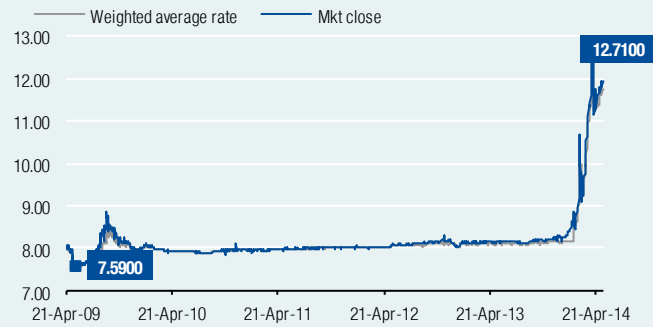
Section on FX market is continued on next page.

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)

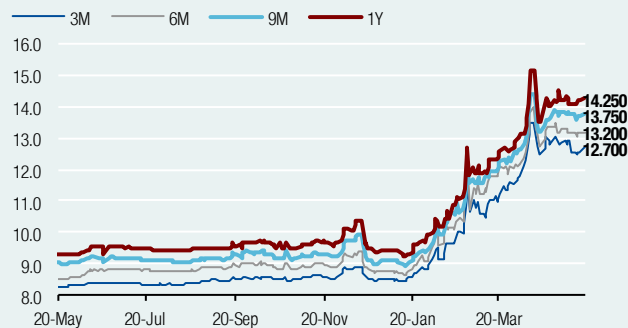


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

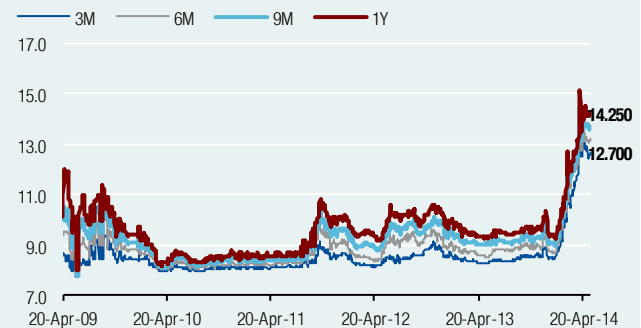


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

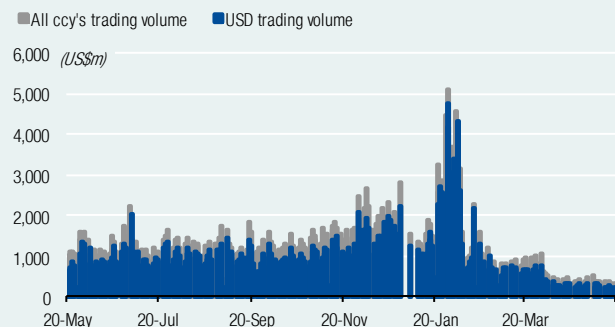


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.



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)

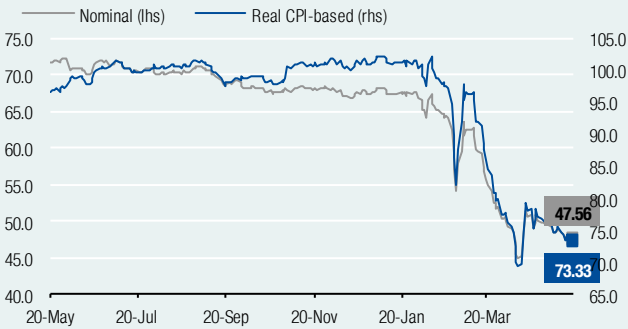


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

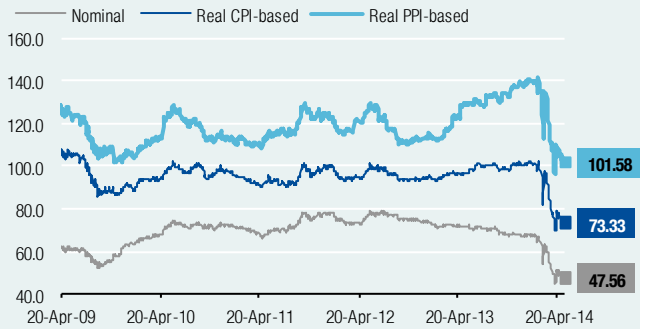
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



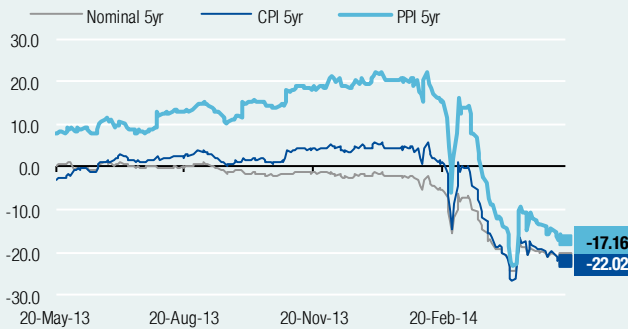
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

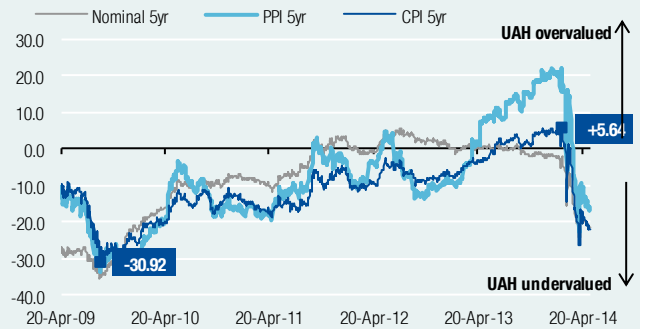


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

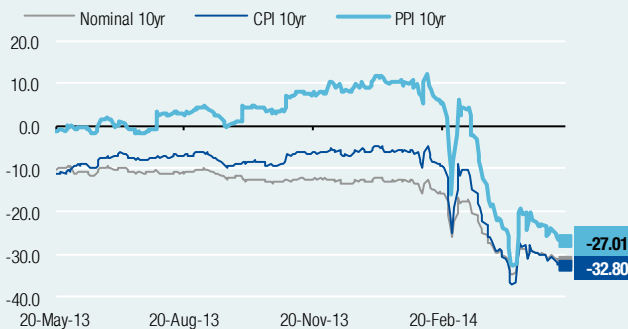


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

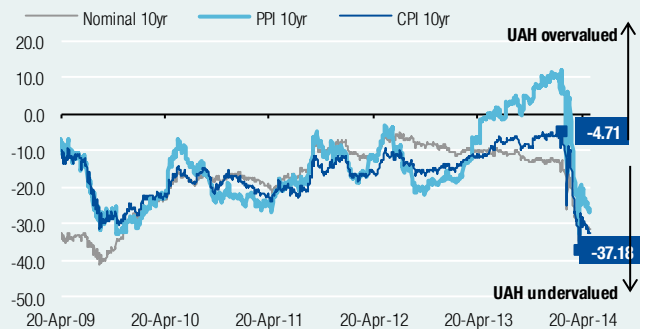


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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.

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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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