



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

Research team
Taras Kotovych

Daily Insight

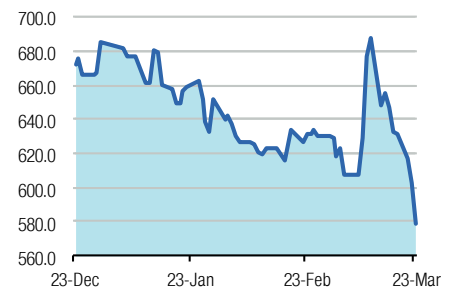
Auction schedule for 2Q16

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THURSDAY, 24 MARCH 2016

UX Index (3 months to 24 Mar 2016)



Source: UX.

Key market indicators (as of 23 Mar 2016)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	26.1500	-0.18	+8.83
USD/UAH (1Y NDF)	30.2000	+0.00	+18.45
EUR/USD	1.1181	-0.32	+2.94
USD/RUB	68.6630	+1.75	-5.32
KievPRIME O/N (%)	19.17	+0bp	+11bp
KievPRIME 1M (%)	22.17	+0bp	-8bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	N/A	+0bp	+0bp
Ukraine 17, Eurobond (%)	29.14	+26bp	+0bp
Ukraine 22, Eurobond (%)	12.32	-1bp	+0bp
Ukraine 23, Eurobond (%)	11.85	+0bp	+0bp
Ukraine 5Y CDS	N/A		
EQUITIES			
Stock market indices			
UX (Ukraine)	578.37	-3.97	-15.67
MSCI World	393.87	-0.78	-1.37
MSCI EM	821.71	-1.06	+3.47
RTS (Russia)	865.40	-2.66	+14.31
WIG-20 (Poland)	1,935.61	-1.39	+4.11
S&P 500 (USA)	2,036.71	-0.64	-0.35

Notes: Chg – percentage change, if not otherwise indicated; [1] – total traded volume for stocks listed in green- or red-shaded box means gain or loss, respectively, of the index or security.

Sources: Bloomberg, UX, Investment Capital Ukraine LLC.

Bonds: News & Comments

Auction schedule for 2Q16

The MoF published its 2Q16 auction schedule and slightly changed its policy at the primary market. In 1Q16, the MoF held auctions twice weekly with strict limits for bonds offered on Tuesdays. For 2Q16, the limits for bond offerings on Tuesdays have been removed. In 2Q16, the MoF will not offer 1.5-year bonds, of which UAH0.27bn has been placed so far, and possibly a small portion of these bonds could be sold next week. Next quarter, zero-coupon bonds with maturities from three months to 12 months will be offered weekly, and 2-year and 3-year maturities could be offered bi-weekly. Most importantly, the MoF will offer USD-denominated bonds monthly: 2-year bonds in April and June, and 1.5-year bonds in May.

Investment implications: The 2Q16 auction schedule is not significantly different from that in 1Q16, and we anticipate demand to be similar. Most likely, the MoF will not sell 3-month bonds and only a small portion of longer maturities are likely to be sold, as 2-year and 3-year bonds should generate most of the budget proceeds as USD-denominated bonds are the most attractive for the market. Primary market interest rates should be similar to the yield curve set by the MoF in 1Q16, with UAH-denominated bonds interest rates in the range of 18-20% and USD-denominated interest rates at 7.5-8.0%.

Liquidity down slightly

Banking sector liquidity continued to decline slightly yesterday despite minor inflows from the NBU as a new portion of funds were reallocated. Banks' correspondent accounts with the NBU slid UAH0.97bn to UAH37.31bn while total CDs outstanding rose UAH0.75bn to UAH60.04bn. Following a significant reallocation of funds, banking sector liquidity slid UAH0.22bn to UAH97.35bn.

Investment implications: Liquidity declined due to month-end tax payments. Moreover, the NBU's inflow via the FX market covered only a part of the outflows, causing liquidity to decline by only UAH0.22bn. The NBU purchased a new portion of FX following the UAH50.0m in new bonds sold on Tuesday (UAH51.64m in local currency proceeds yesterday). Liquidity could see additional fund reallocations today with a slight decline in total liquidity.

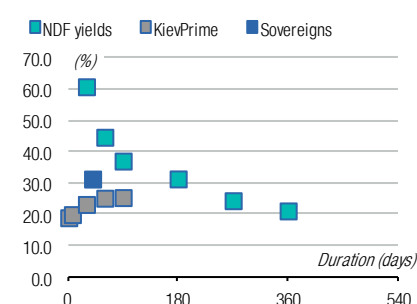
All bids accepted at primary auction

As the MoF's Wednesday auctions without limits, all three bids were accepted at the unchanged interest rate of 19.70%, providing the state budget with UAH190.45m in proceeds. The significant demand was not competitive. The danger ahead is that the MoF might not be able to raise more funds even if it does raise interest rates, because the currently frustrated market players whose bids at higher rates have been continually rejected might abandon these auctions altogether.

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Yield curve of the local bond market

(as of market close on 23 Mar 2016)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 23 Mar 2016)

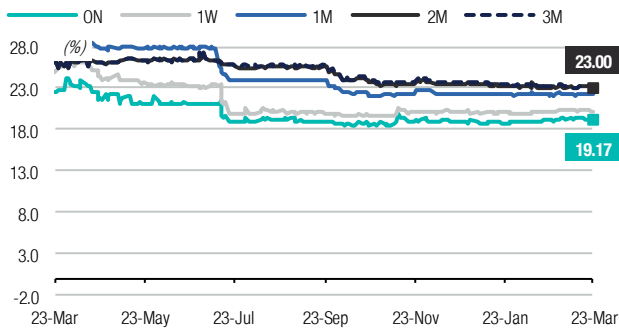
	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
O/n	19.17	+0bp	-21bp	+11bp	+11bp
1wk	20.17	+0bp	-21bp	+11bp	+17bp
1m	22.17	+0bp	-8bp	+4bp	-8bp
2m	23.00	+0bp	-13bp	+0bp	-50bp
3m	23.00	+0bp	-25bp	-13bp	-75bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's ¹	37,307	-2.53	-2.65	-1.67	-3.00
CDs ²	50,121	-15.47	-14.21	-31.31	-42.25
Sovgns ³	8,733	-6.08	+15.84	+68.95	+84.50
Total	96,161	-10.02	-7.79	-17.16	-26.03
HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	387,294	+0.00	-0.01	-0.33	+1.97
Banks	107,287	-0.71	-8.09	-8.30	+31.53
Resid's ⁴	11,683	-1.91	-0.50	+0.04	-44.36
Non-res ⁵	23,470	-1.71	-2.66	-3.22	+5.21
Total	529,733	-0.27	-1.88	-2.17	+4.96
NDF IMPLIED YIELDS (%)					
3m	N/A	N/A	N/A	N/A	N/A
6m	N/A	N/A	N/A	N/A	N/A
9m	N/A	N/A	N/A	N/A	N/A
1yr	N/A	N/A	N/A	N/A	N/A
LOCAL CURRENCY UAH SOVEREIGN BOND YIELDS (%)					
Mar '13	N/A	N/A	N/A	N/A	N/A
Jan '14	N/A	N/A	N/A	N/A	N/A
Aug '15 ⁶	N/A	N/A	N/A	N/A	N/A
EUROBONDS USD SOVEREIGN BOND YIELDS (%)					
CDS 5yr	N/A	N/A	N/A	N/A	N/A
Jun '16	67.67	+114bp	+0bp	+0bp	+0bp
Jul '17	29.14	+26bp	+0bp	+0bp	+0bp
Sep '20	14.02	+4bp	+0bp	+0bp	+0bp
Sep '21	14.22	+0bp	+0bp	+0bp	+0bp
Sep '22	12.32	-1bp	+0bp	+0bp	+0bp
Feb '23	11.85	+0bp	+0bp	+0bp	+0bp

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.

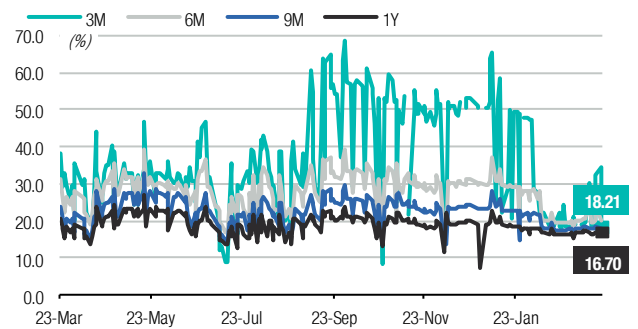
Chart page: Local bond market & Eurobond markets

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



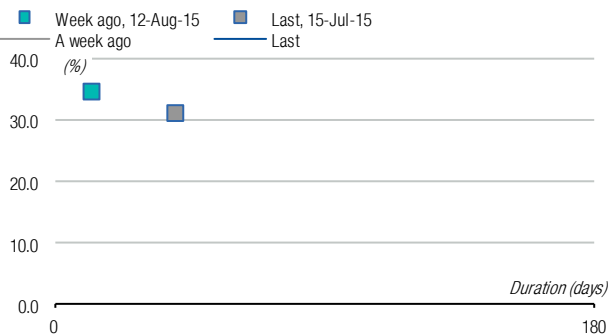
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



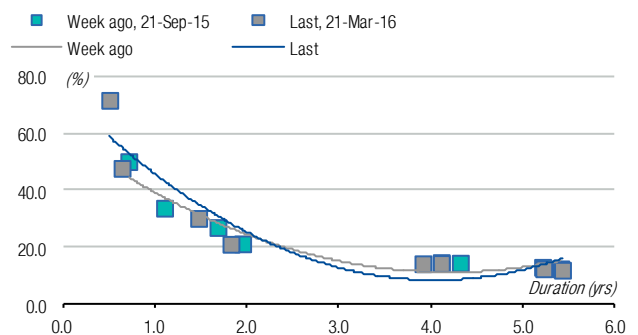
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 23 Mar 2016



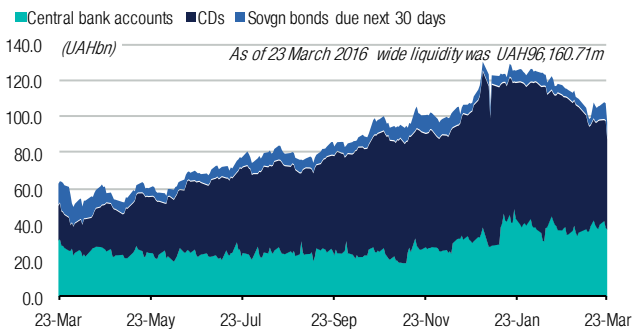
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 23 Mar 2016



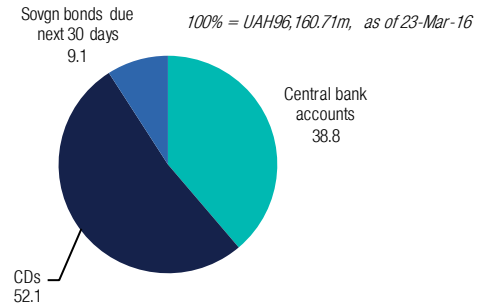
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



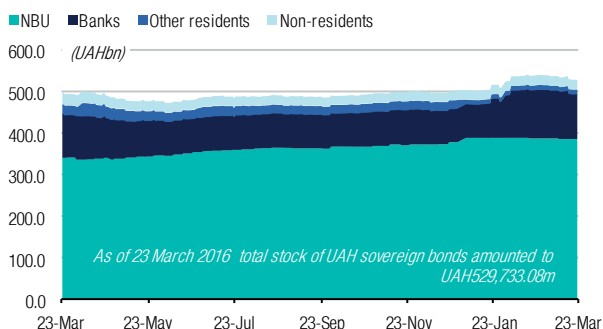
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 23 Mar 2016



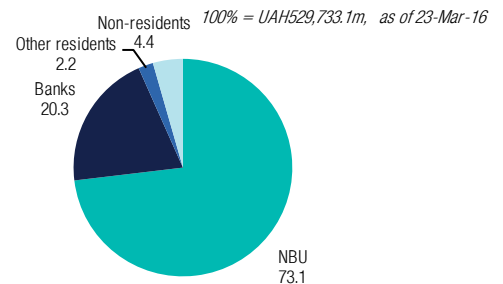
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 23 Mar 2016



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

Table 1. Ukrainian stocks (closing prices as of 23-Mar-2016)

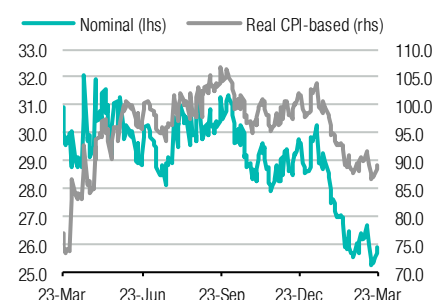
Company	Bloomberg Ticker	Listing	Share price performance (% change)				Valuation (US\$)			Free float (FF) & Liquidity				P/E			EV/EBITDA			EV/Sales			Ratios				
			Last price	Daily	MoM	YTD	YoY	Last price	Market cap (m)	EV (m)	FF (%)	FF mkt cap (US\$m)	Last day turnover (US\$ 000)	3M avg. turnover (US\$ 000)	FF share traded (%)	FF turnover (days)	2014	2015E	2016E	2014	2015E	2016E	2014	2015E	2016E	P/B (x)	Debt/Assets (%)
ENERGY																											
Cadogan Petrol...	CAD LN	London	9.88 GBp	+0.0	-3.7	+21.5	+12.9	0.14	32.2	-17.0	40.2	12.9	3.3	17.0	0.00	23,333	Neg.	Neg.	11.9	2.4	Neg.	Neg.	Neg.	Neg.	Neg.	0.4	15.3
Centrenergo	CEEN UK	Kiev, UX	5.20 UAH	-3.6	+15.3	+14.1	-35.1	0.20	73.3	62.7	21.7	15.9	9.7	9.9	0.08	1,209	27.2	Neg.	5.3	0.2	Neg.	1.8	0.2	0.2	0.1	0.8	4.2
Coal Energy	CLE PW	Warsaw	0.61 PLN	-4.7	+5.2	+15.1	-4.7	0.16	7.2	78.7	25.0	1.8	0.7	1.8	0.20	512	Neg.	N/A	N/A	10.8	N/A	N/A	0.7	N/A	N/A	0.3	56.9
Donbasenergo	DOEN UK	Kiev, UX	13.50 UAH	-1.1	-3.6	-14.3	-40.3	0.51	12.2	21.6	14.2	1.7	0.0	1.0	0.07	1,394	3.2	Neg.	N/A	0.0	N/A	N/A	0.1	0.1	N/A	0.3	13.6
JKX Oil & Gas	JKX LN	London	24.50 GBp	+0.0	-2.0	-10.1	-26.3	0.35	59.3	70.0	47.2	28.0	18.2	10.5	0.05	1,853	Neg.	Neg.	Neg.	Neg.	2.8	N/A	0.8	1.0	1.3	0.2	9.9
Regal Petroleum	RPT LN	London	2.58 GBp	+0.0	-14.2	-31.3	-39.4	0.04	11.6	-21.8	80.9	9.4	0.0	3.9	0.01	12,602	2.0	N/A	N/A	Neg.	N/A	N/A	Neg.	Neg.	N/A	0.2	0.0
Sadova Group	SGR PW	Warsaw	0.23 PLN	+0.0	+4.5	-23.3	+4.5	0.06	2.6	44.0	25.0	0.6	0.3	0.7	0.18	542	Neg.	N/A	N/A	Neg.	N/A	N/A	17.3	N/A	N/A	N/A	137.6
Zakhidenergo	ZAEN UK	Kiev, PFTS	61.00 UAH	-12.9	-27.4	-27.4	-65.4	2.33	29.8	59.4	5.0	1.5	0.4	0.5	0.05	1,940	Neg.	N/A	N/A	0.1	N/A	N/A	0.1	N/A	N/A	0.4	11.6
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	-10.5	-39.3	-30.8	-37.5	0.00	7.6	1,573.6	3.9	0.3	0.0	0.1	0.13	743	Neg.	Neg.	N/A	0.5	Neg.	N/A	2.8	5.5	N/A	N/A	145.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.06 UAH	-1.9	-6.5	-3.7	-23.1	0.04	7.9	7.0	4.0	0.3	0.2	0.6	0.05	1,844	Neg.	N/A	N/A	Neg.	N/A	N/A	0.0	N/A	N/A	0.0	0.0
Azovstal	AZST UK	Kiev, UX	0.22 UAH	-8.1	-27.0	-46.0	-72.2	0.01	34.6	-18.4	4.1	1.4	2.8	0.9	0.09	1,118	1.0	0.8	N/A	Neg.	N/A	N/A	Neg.	Neg.	N/A	0.0	0.0
Ferrexpo PLC	FXPO LN	London	29.00 GBp	-5.7	+17.2	+34.9	-51.7	0.41	240.5	1,108.1	22.4	53.9	743.7	375.2	1.54	65	7.3	6.8	4.8	8.0	6.1	6.2	1.2	1.3	1.3	1.0	73.7
Yasynivsky Cok...	YASK UK	Kiev, UX	0.17 UAH	+7.6	-25.4	-26.1	-54.9	0.01	1.8	2.3	9.0	0.2	0.0	1.5	0.67	149	Neg.	Neg.	N/A	Neg.	N/A	N/A	0.0	0.0	N/A	0.0	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	7.00 UAH	-1.4	-36.3	-50.0	-60.8	0.27	2.8	-10.3	9.4	0.3	0.0	0.2	0.20	498	Neg.	Neg.	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.1	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.34 EUR	+3.0	-2.9	-15.0	-26.1	0.38	37.4	93.5	34.0	12.7	8.2	7.3	0.05	2,090	Neg.	Neg.	2.3	4.6	4.5	3.0	1.3	1.4	1.1	0.5	83.5
Agroliga	AGL PW	Warsaw	13.21 PLN	-3.4	+1.7	+16.1	+52.7	3.46	5.3	6.6	16.7	0.9	2.2	2.4	0.31	324	1.7	N/A	N/A	1.8	N/A	N/A	0.4	N/A	N/A	0.5	10.7
Agroton	AGT PW	Warsaw	1.13 PLN	+7.6	+18.9	+11.9	-8.9	0.30	6.4	33.1	26.2	1.7	89.7	10.2	0.60	166	Neg.	N/A	N/A	1.4	N/A	N/A	0.6	N/A	N/A	0.2	33.4
Astarta Holdin...	AST PW	Warsaw	37.01 PLN	-0.5	+18.6	+7.3	+64.5	9.70	242.5	469.5	31.0	75.2	188.1	24.8	0.03	3,296	Neg.	19.4	4.8	3.9	3.6	4.1	1.2	1.4	1.3	1.0	49.6
Avangard	AVGR LI	London Intl	1.35 USD	+0.0	+125.0	+8.0	-55.7	1.35	86.2	376.9	21.7	18.7	0.0	2.4	0.00	43,393	Neg.	Neg.	7.8	2.9	Neg.	7.7	0.9	1.4	1.3	0.3	33.1
IMC	IMC PW	Warsaw	6.89 PLN	+2.8	+11.3	+15.4	+26.2	1.81	56.5	162.0	23.9	13.5	3.0	12.4	0.01	10,139	Neg.	Neg.	2.4	2.8	3.0	3.3	1.2	1.1	1.1	2.1	69.8
Kernel Holding...	KER PW	Warsaw	55.90 PLN	+0.7	+16.3	+16.2	+55.3	14.65	1,167.6	1,630.1	58.8	686.3	199.3	1,934.3	0.26	389	10.9	5.5	4.9	4.1	4.5	4.4	0.7	0.7	0.7	1.3	32.0
KSG Agro	KSG PW	Warsaw	1.03 PLN	+7.3	+10.8	+10.8	-1.9	0.27	4.1	67.3	34.4	1.4	7.5	3.2	0.29	346	Neg.	N/A	N/A	6.7	N/A	N/A	2.1	N/A	N/A	N/A	67.4
MHP	MHPC LI	London Intl	8.50 USD	-0.8	+11.7	-8.6	-7.6	8.50	898.2	2,146.3	22.3	200.5	298.8	367.8	0.28	360	Neg.	4.7	3.6	4.7	4.8	4.5	1.8	1.7	1.5	1.4	61.6
Milkiland	MLK PW	Warsaw	1.56 PLN	+15.6	+19.1	+9.9	-40.9	0.41	12.8	130.6	20.0	2.6	82.4	12.8	0.53	189	Neg.	Neg.	Neg.	9.5	26.4	14.7	0.4	0.6	0.6	0.1	42.5
CONSTRUCTION																											
TMM	TR61 GF	Frankfurt	0.02 EUR	+0.0	-20.0	-71.4	-73.3	0.02	1.2	94.0	13.1	0.2	0.0	0.4	0.27	367	Neg.	N/A	N/A	Neg.	N/A	N/A	3.6	N/A	N/A	0.0	41.9
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.07 UAH	+0.0	-5.8	-12.0	-34.2	0.00	155.5	N/A	3.8	5.9	2.3	3.1	0.09	1,075	N/A	Neg.	6.4	N/A	N/A	N/A	N/A	N/A	N/A	0.5	N/A
Ukrsotsbank	USCB UK	Kiev, UX	0.07 UAH	+0.4	-22.1	-29.2	-35.5	0.00	206.6	N/A	4.5	9.3	0.0	1.3	0.02	5,062	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	38.2

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; *** - P/E is above 10,000x. Sources: Bloomberg, ICU.

FX: News & Comments

ICU's UAH trade-weighted indices

(Last 12-month history to 24 Mar 2016)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 23 Mar 2016)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	26.1500	-0.18	-2.91	-4.04	+8.83
NBU avg	26.0151	-0.33	-3.09	-4.48	+9.35
Ttl vlm ¹	250.56	+5.17	+19.72	+15.83	-31.02
\$ volume ²	182.14	+8.12	+19.55	+12.82	-27.45
NDF 3M	27.3500	+0.00	-2.79	-3.87	+0.00
NDF 6M	28.7000	+0.00	-2.66	-3.69	+4.26
NDF 1Y	30.2000	+0.00	-2.53	-3.51	+18.45
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	25.869	+0.74	+2.61	+0.91	-9.54
UAH real CPI	88.980	+0.74	+2.61	+0.91	-9.18
UAH real PPI	117.821	+0.74	+2.61	+0.91	-9.54
USD nom'l	96.046	+0.42	+0.16	-1.47	-2.62
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	68.6630	+1.75	-0.81	-9.99	-5.32
EUR/USD	1.1181	-0.32	-0.38	+1.46	+2.94
USD/CNY	6.5066	+0.25	-0.24	-0.32	+0.20
USD/PLN	3.8080	+0.37	-0.32	-4.20	-2.93
USD/TRY	2.8760	+0.32	+0.24	-2.30	-1.41
USD/BYR	20,150.00	-0.20	-2.89	-6.80	+8.18
USD/KZT	345.5000	+0.00	-1.02	-1.00	+1.44
OTHER MAJOR CURRENCIES					
USD/JPY	112.3800	+0.01	-0.16	+0.25	-6.52
GBP/USD	1.4117	-0.64	-1.00	+0.68	-4.20
USD/CHF	0.9752	+0.26	-0.17	-1.62	-2.68
AUD/USD	0.7532	-1.18	-0.28	+4.58	+3.38
USD/CAD	1.3204	+1.19	+0.82	-4.27	-4.59
USD/BRL	3.6849	+2.92	-1.54	-6.92	-6.97
USD/KRW	1,161.18	+0.61	-2.69	-5.69	-1.18
COMMODITIES					
Gold(\$/oz)	1,220.10	-2.26	-3.36	-0.45	+14.95
WTI crude ³	38.49	-3.65	+0.08	+28.00	+3.91
Brent crd ³	39.79	-2.69	+0.86	+22.66	+11.30
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	173.24	-2.19	-0.30	+7.98	-1.65

Readers may follow the ICU trade-weighted indices of the local-currency, the hryvnia (UAH), on the ICU [website](#) and Bloomberg (type: ALLX UTWI <GO>).

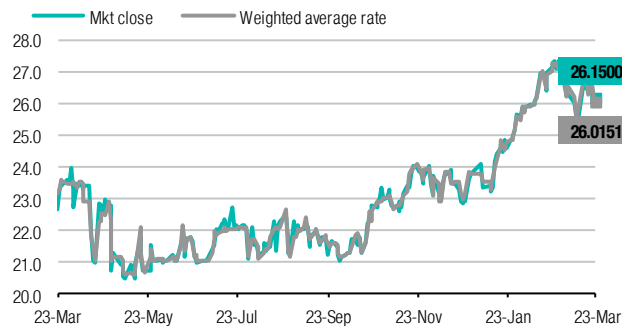
Section on FX market is continued on next page.

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.

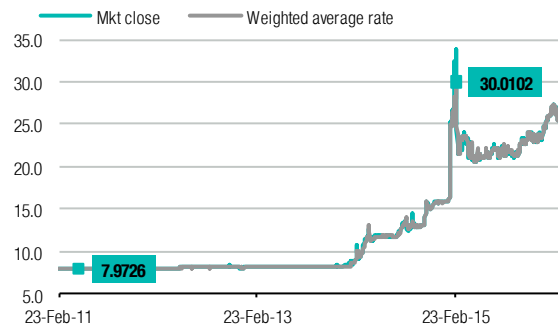
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

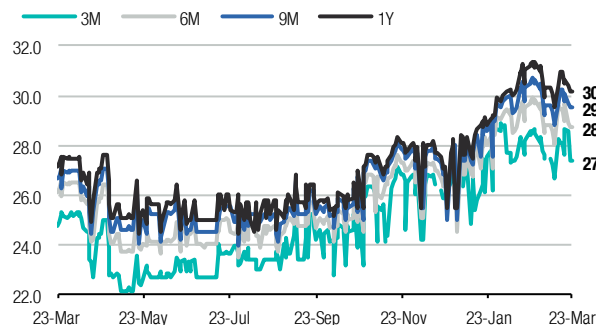


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

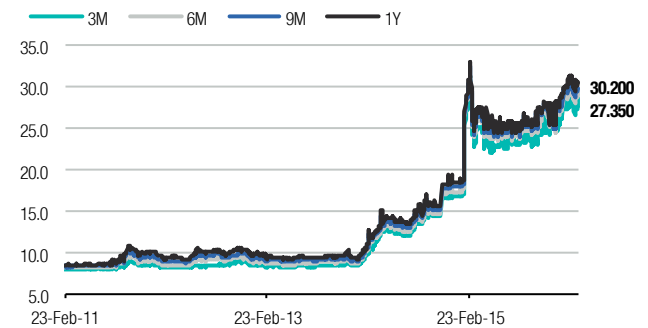


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

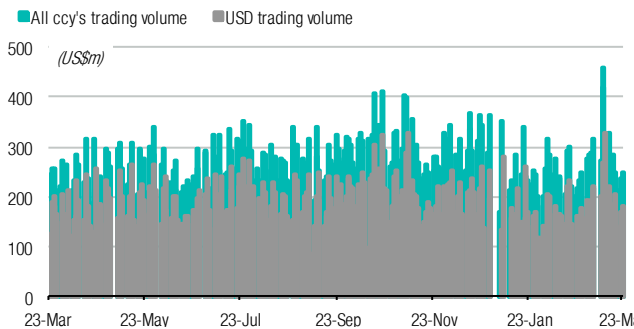


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

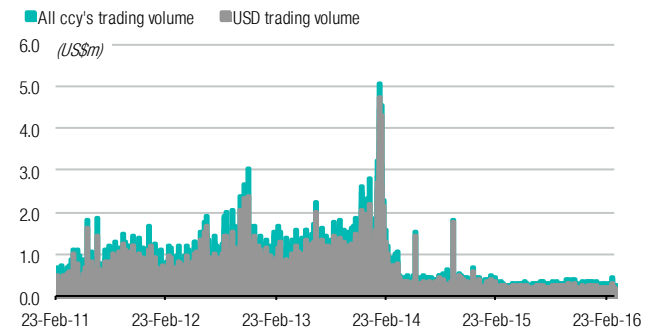


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

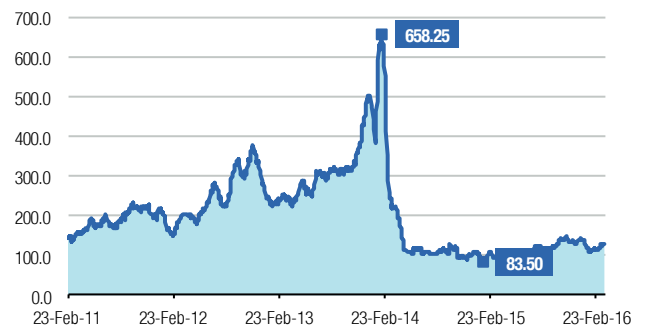


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

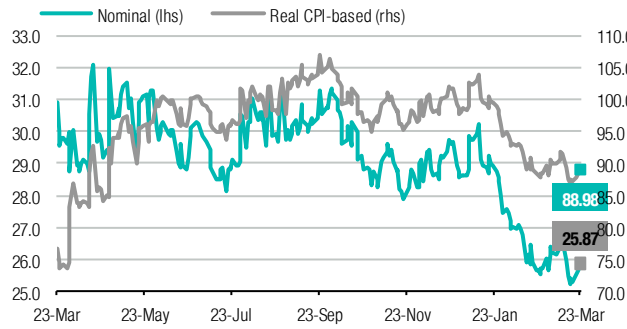


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

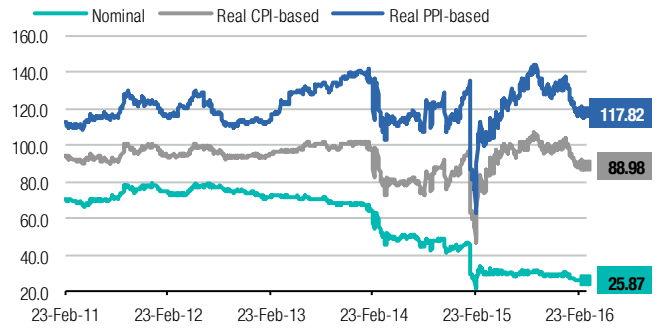
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



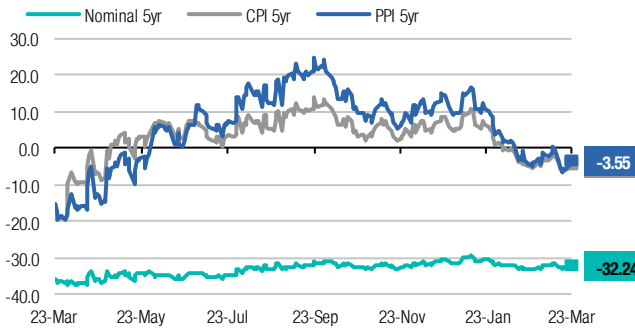
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

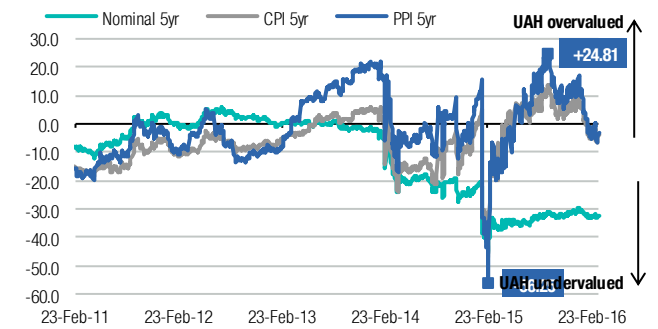


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

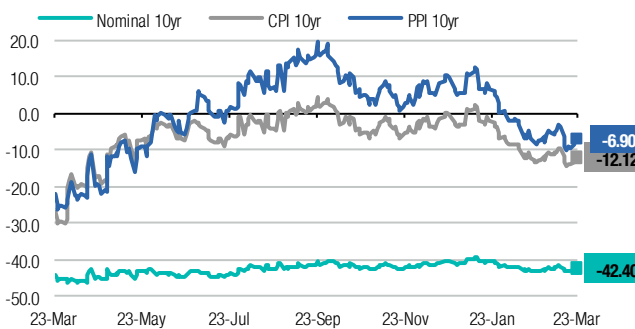


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

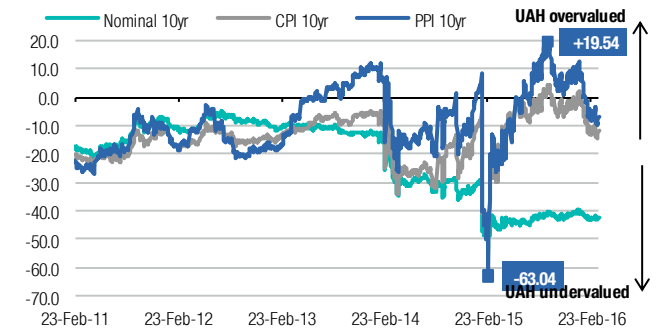


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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

Sell: Forecasted 12-month total return significantly less than that of relevant benchmark



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