

Daily Insight

Hryvnia in decline

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THURSDAY, 26 MARCH 2015

UX Index (3 months to 26 Mar 2015)



Source: UX.

Key market indicators (as of 25 Mar 2015)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	23.5000	+1.18	+48.55
USD/UAH (1Y NDF)	27.5500	+0.99	+49.32
EUR/USD	1.0970	+0.42	-9.32
USD/RUB	57.4284	-0.53	-5.45
KievPRIME O/N (%)	22.67	+27bp	+377bp
KievPRIME 1M (%)	28.00	+10bp	+810bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	264.88	+393bp	+20,312bp
Ukraine 17, Eurobond (%)	57.65	+16bp	+2,989bp
Ukraine 22, Eurobond (%)	26.88	+1bp	+1,063bp
Ukraine 23, Eurobond (%)	24.79	+1bp	+922bp
Ukraine 5Y CDS	4,903bp	-61bp	+2,704bp
EQUITIES			
Stock market indices			
UX (Ukraine)	1,047.13	-0.69	+1.34
MSCI World	428.25	-0.83	+2.67
MSCI EM	976.15	-0.21	+2.07
RTS (Russia)	882.07	+0.20	+12.06
WIG-20 (Poland)	2,395.40	-0.70	+3.43
S&P 500 (USA)	2,061.05	-1.46	+0.10

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

Liquidity declines

Broader banking sector liquidity fell for the first time in last two weeks, down UAH4.49bn to UAH59.08bn yesterday. Banks' correspondent accounts with the NBU fell UAH3.47bn to UAH27.34bn and total CDs outstanding declined UAH1.03bn to UAH19.03bn. Total local currency debt repayments scheduled for the next 30 days remained steady at UAH11.71bn, as recent repayments on Tuesday were in US dollars.

KyivPrime interest rates slightly rose: the KyivPrime ON interest rate rose 27bp to 22.67% while the KyivPrime 1M interest rate rose 10bp to 28.00%.

Investment implications: Liquidity declined because of: (1) banks repaying UAH1.20bn of loans received from the NBU two weeks ago; (2) tax payments to the state budget; (3) slight local currency devaluation; and (4) the receipt of a large portion of USD-denominated debt repayments from the MoF.

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Ukraine downgraded by Moody's

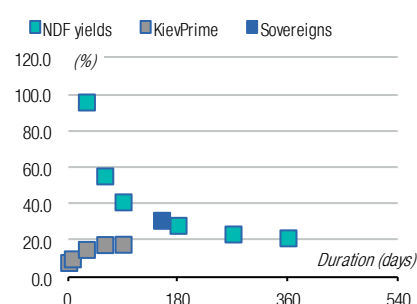
Moody's downgraded Ukraine to Ca from Caa3 because of the negative impact of the sovereign debt restructuring on investors. The principal haircut, the reduction in the coupon rate, and a possible grace period will cause losses for investors. Should they reject the MoF's proposals for restructuring, there could be sovereign default. Despite this, the market did not react to this rating downgrade as current prices have already factored in the risks inherent in the debt restructuring. The MoF likely met with numerous key investors last week in US and this week in Europe to discuss the investors' view on possible steps to meet the EFF target of US\$15.3bn of private sector support for Ukraine.

Investment implications: Rating agencies have already factored in recent events, as have investors, in their evaluation of Ukraine's debt. Because of this, Moody's decision will have little impact on the market which still anticipates the official proposals from the MoF and quasi-sovereign companies.

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Yield curve of the local bond market

(as of market close on 25 Mar 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 25 Mar 2015)

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

MONEY MARKET KIEV PRIME RATES (%)

O/n	22.67	+27bp	-33bp	+567bp	+377bp
1wk	25.50	+40bp	+120bp	+700bp	+650bp
1m	28.00	+10bp	+80bp	+575bp	+810bp
2m	25.33	-67bp	-107bp	+445bp	+533bp
3m	25.33	-67bp	-107bp	+445bp	+533bp

LIQUIDITY WIDE MEASUREMENT (UAHm)

CB acc's ¹	N/A	N/A	N/A	N/A	N/A
CDs ²	N/A	N/A	N/A	N/A	N/A
Sovgns ³	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	N/A	N/A	N/A

HOLDERS OF UAH SOVEREIGN BONDS (UAHm)

C.bank	342,525	+0.00	+0.47	+1.25	+7.67
Banks	101,832	-3.18	-4.13	-21.18	+8.99
Resid's ⁴	23,601	+0.08	-10.53	-12.69	-3.87
Non-res ⁵	27,033	+0.50	+2.99	-16.34	+25.48
Total	494,991	-0.64	-0.96	-6.04	+8.16

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	-52ppt	+0bp	+0bp	+0bp
Jan '14	N/A	+320bp	+0bp	+0bp	+0bp
Aug '15 ⁶	31.14	+16bp	-126bp	+0bp	+685bp

EUROBONDS USD SOVEREIGN BOND YIELDS (%)

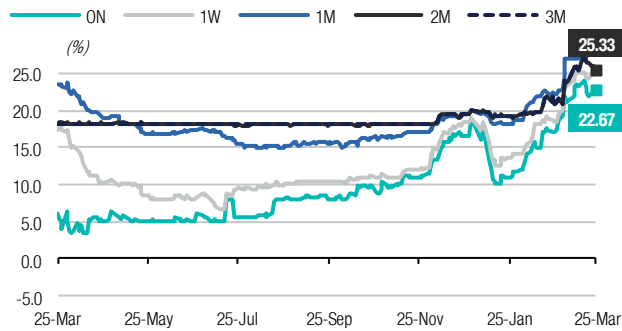
CDS 5yr	4,903	-61bp	+224bp	+511bp	+27bp
Jun '16	107.23	+79bp	+142bp	+14bp	+70bp
Jul '17	57.65	+16bp	-57bp	+125bp	+30bp
Sep '20	29.73	+2bp	-249bp	+25bp	+11bp
Sep '21	30.59	+2bp	-68bp	+1bp	+12bp
Sep '22	26.88	+1bp	-28bp	+28bp	+11bp
Feb '23	24.79	+1bp	+24bp	-66bp	+922bp

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.

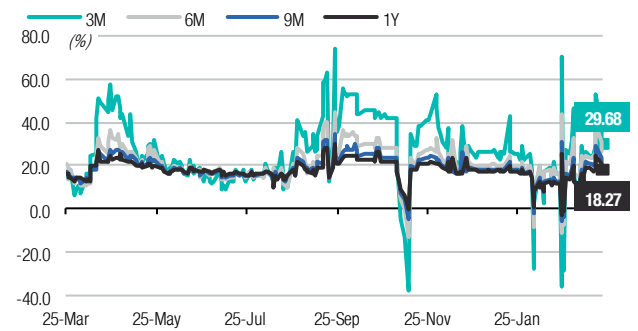
Chart page: Local bond market & Eurobond markets

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



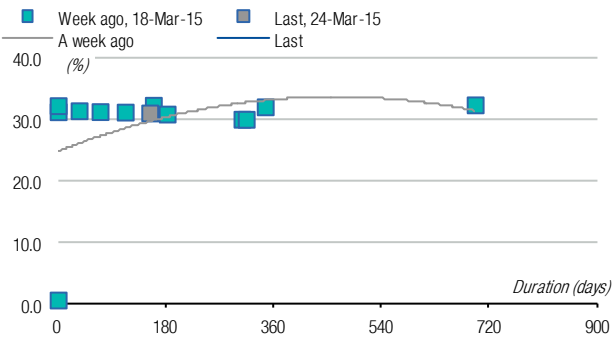
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



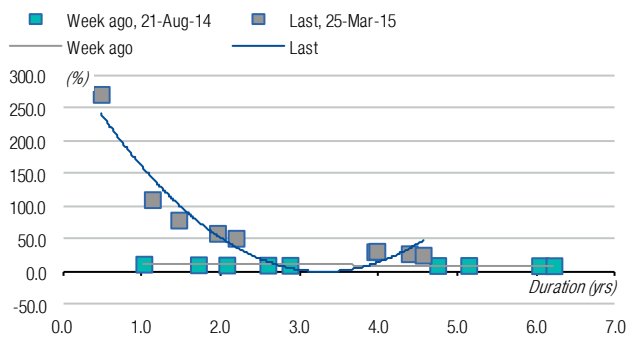
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 25 Mar 2015



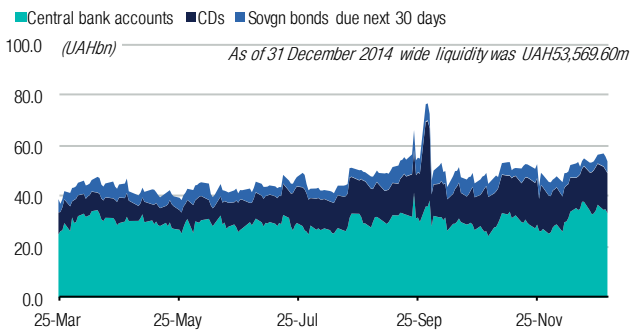
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 25 Mar 2015



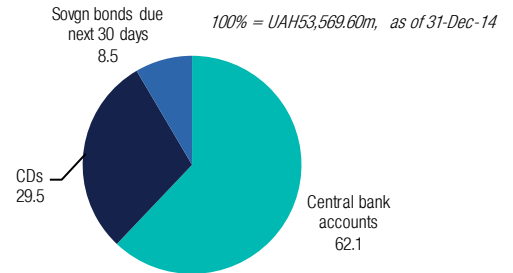
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



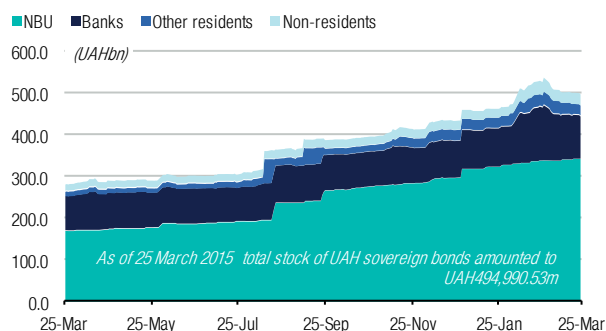
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 25 Mar 2015



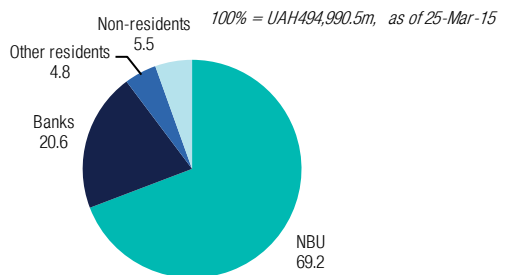
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 25 Mar 2015



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

Table 1. Ukrainian stocks (closing prices as of 25-Mar-2015)

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	8.75 GBp	+0.0	-9.1	-12.5	-5.4	0.13	30.1	-17.5	40.2	12.1	9.8	8.3	0.07	1,336	Neg.	N/A	N/A	2.6	N/A	N/A	Neg.	N/A	N/A	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	7.95 UAH	-0.7	+0.6	+5.4	+53.1	0.35	127.9	119.8	21.7	27.8	15.2	34.9	0.14	708	6.0	6.0	Neg.	0.2	3.1	Neg.	0.4	0.2	0.4	1.1	16.3
Coal Energy	CLE PW	Warsaw	0.65 PLN	+1.6	+1.6	+4.8	-58.9	0.17	7.9	84.8	25.0	2.0	2.5	6.3	0.25	407	Neg.	N/A	N/A	11.6	N/A	N/A	0.8	N/A	N/A	0.3	56.9
Donbasenergo	DOEN UK	Kiev, UX	22.60 UAH	-0.1	-25.5	-31.5	-42.4	0.98	23.3	57.9	14.2	3.3	1.3	5.5	0.25	399	1.0	0.6	4.1	0.1	1.0	2.2	0.2	0.1	0.4	0.8	25.1
JXK Oil & Gas	JXK LN	London	31.50 GBp	-5.3	-12.5	+162.5	-48.1	0.47	80.8	91.4	47.2	38.1	101.0	436.6	1.99	50	Neg.	Neg.	Neg.	Neg.	1.8	N/A	0.7	0.6	1.2	0.3	9.9
Regal Petroleum	RPT LN	London	4.25 GBp	+0.0	-5.5	+36.0	-59.5	0.06	20.3	-9.8	80.9	16.4	0.2	2.5	0.02	5,934	Neg.	10.2	N/A	Neg.	Neg.	Neg.	Neg.	Neg.	0.2	0.0	
Sadova Group	SGR PW	Warsaw	0.17 PLN	-22.7	-51.4	-78.5	-79.5	0.05	2.0	41.9	25.0	0.5	4.1	0.9	1.01	99	Neg.	N/A	N/A	Neg.	N/A	N/A	20.4	N/A	N/A	0.1	54.9
Zakhidenergo	ZAEN UK	Kiev, PFTS	176.50 UAH	+0.0	+13.9	+19.2	+49.7	7.69	98.3	106.6	5.0	4.9	0.0	1.1	0.04	2,285	3.9	N/A	N/A	0.7	N/A	N/A	0.2	N/A	N/A	1.5	0.0
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	+4.9	-14.0	-11.0	-63.7	0.00	14.5	1,261.8	3.9	0.6	0.1	0.7	0.06	1,586	Neg.	Neg.	N/A	Neg.	Neg.	N/A	2.0	1.1	N/A	N/A	85.7
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.36 UAH	-1.0	-6.5	-21.2	-52.9	0.06	11.6	-15.7	4.0	0.5	0.1	1.7	0.28	363	Neg.	Neg.	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.1	0.1
Azovstal	AZST UK	Kiev, UX	0.77 UAH	-1.2	-9.7	+3.0	+13.0	0.03	140.4	116.1	4.1	5.8	1.7	6.8	0.18	554	Neg.	Neg.	N/A	Neg.	4.8	N/A	0.1	0.1	N/A	0.3	0.0
Ferrexpo PLC	FXPO LN	London	62.75 GBp	+4.6	+3.0	+28.3	-54.8	0.94	550.4	1,236.8	22.4	123.3	632.0	1,044.1	0.91	110	3.1	6.8	5.6	3.0	4.7	4.6	0.9	1.1	1.0	0.8	61.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.38 UAH	+0.0	+26.9	+34.6	-41.3	0.02	4.5	5.0	9.0	0.4	0.0	0.4	0.03	3,245	Neg.	0.7	0.4	0.1	0.4	N/A	0.0	0.0	0.0	0.1	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	18.80 UAH	+5.2	+5.6	-10.3	-45.3	0.82	8.6	2.9	9.4	0.8	0.0	2.6	0.19	520	Neg.	Neg.	N/A	0.5	0.1	N/A	0.0	0.0	N/A	0.9	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.44 EUR	-4.3	+12.8	+2.3	-61.4	0.48	44.6	92.1	34.0	15.2	8.7	52.0	0.76	131	Neg.	N/A	N/A	Neg.	N/A	N/A	1.6	N/A	N/A	1.0	35.9
Agroliga	AGL PW	Warsaw	9.36 PLN	+8.2	+3.4	+4.0	-52.8	2.51	3.9	4.6	16.7	0.6	2.2	2.4	0.16	614	1.1	N/A	N/A	1.3	N/A	N/A	0.3	N/A	N/A	0.4	5.7
Agroton	AGT PW	Warsaw	1.25 PLN	+0.8	-6.7	+1.6	-58.1	0.34	7.3	52.6	26.2	1.9	5.2	28.9	0.83	120	Neg.	N/A	N/A	19.7	17.5	N/A	0.6	0.6	N/A	0.1	28.4
Astarta Holdin...	AST PW	Warsaw	22.74 PLN	+1.1	-8.3	+13.7	-48.3	6.11	152.7	387.6	31.0	47.4	12.9	57.1	0.06	1,611	5.4	Neg.	Neg.	5.1	3.3	6.0	1.0	0.8	1.0	0.5	38.2
Avangard	AVGR LI	London Intl	3.20 USD	+5.1	+11.1	+56.1	-68.0	3.20	204.4	415.6	21.7	44.4	14.9	74.9	0.05	1,875	0.9	4.7	1.9	1.4	2.9	2.7	0.6	0.8	0.9	0.2	17.8
Kernel Holding...	KER PW	Warsaw	36.00 PLN	+0.0	+21.4	+26.5	+24.1	9.67	770.4	1,498.0	58.8	452.8	604.9	1,638.7	0.56	180	Neg.	5.4	5.1	6.7	4.5	4.5	0.6	0.6	0.6	0.8	39.1
KSG Agro	KSG PW	Warsaw	1.04 PLN	-1.0	-4.6	-7.1	-82.5	0.28	4.2	85.9	34.4	1.4	4.5	13.2	0.37	271	Neg.	N/A	0.2	9.9	N/A	N/A	1.2	0.9	0.8	0.3	44.5
MHP	MHPC LI	London Intl	9.25 USD	+0.5	-2.6	+0.5	-28.8	9.25	977.4	2,107.8	22.3	218.2	5,635.6	625.5	0.46	216	6.3	Neg.	3.5	5.4	4.0	4.2	1.4	1.5	1.5	1.9	47.0
Milkiland	MLK PW	Warsaw	2.50 PLN	-5.3	-21.1	+68.9	-67.1	0.67	21.0	131.5	20.0	4.2	46.9	49.2	1.60	62	1.8	Neg.	Neg.	4.0	4.1	4.3	0.4	0.4	0.5	0.1	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	0.43 EUR	+0.0	+17.9	-23.7	-92.3	0.47	50.1	777.9	20.0	10.0	0.0	0.7	0.00	39,706	0.6	0.6	0.2	4.7	N/A	N/A	1.6	1.8	1.8	0.1	45.3
Ovostar Union	OVO PW	Warsaw	69.38 PLN	-0.2	+1.2	-3.6	+2.1	18.63	111.8	121.4	25.0	27.9	0.1	31.2	0.01	10,565	3.7	4.5	6.0	3.3	3.9	4.5	1.4	1.5	1.4	0.8	8.5
TRANSPORTATION																											
KDM Shipping	KDM PW	Warsaw	5.22 PLN	-0.2	-7.3	+28.9	-58.2	1.40	13.0	0.6	10.9	1.4	0.6	0.3	0.01	13,872	1.9	N/A	N/A	0.1	N/A	N/A	0.0	N/A	N/A	0.2	5.6
CONSTRUCTION																											
TMM	TR61 GF	Frankfurt	0.08 EUR	+0.0	-31.8	-6.2	-75.8	0.08	4.3	131.4	13.1	0.6	0.0	0.1	0.03	3,558	Neg.	N/A	N/A	Neg.	N/A	N/A	3.9	N/A	N/A	0.0	45.5
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.10 UAH	-2.6	-5.3	+2.2	-36.0	0.00	128.1	N/A	3.8	4.9	15.0	9.9	0.30	335	2.9	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	0.5	22.4

Table 1. Ukrainian stocks (closing prices as of 25-Mar-2015)

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	Debt/(x) Assets		
Ukrsotsbank	USCB UK	Kiev, UX	0.11 UAH	+0.0	-5.2	-16.7	-31.2	0.00	116.6	N/A	4.5	5.2	0.0	0.5	0.00	28,284	Neg.	9.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.2	28.2

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

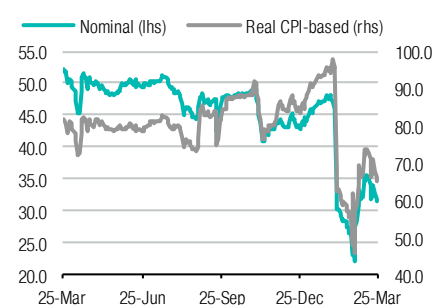
Hryvnia in decline

Yesterday, the hryvnia lost 1.18% versus the US dollar, which also was down, and its nominal trade-weighted value contracted 0.22% (Bloomberg: DXY). The euro increased 0.44% and the Russian ruble rose 0.53%. The hryvnia's trade-weighted value fell for the second consecutive day – down 1.39% yesterday, 3.02% the day before, and 1.84% over the past week, suggesting that the local FX market has heavily sold the hryvnia. Because of this, as long as the USD index keeps trending lower or sideways, the hryvnia should recover over the next week.

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ICU's UAH trade-weighted indices

(Last 12-month history to 26 Mar 2015)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 25 Mar 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	23.5000	+1.18	+0.21	-5.98	+48.55
NBU avg	23.5570	+1.16	+1.12	-16.01	+49.39
Ttl vlm ¹	256.98	+5.78	-15.61	+82.08	-40.36
\$ volume ²	180.68	-4.87	-25.43	+83.99	-49.00
NDF 3M	25.2000	+1.08	+1.04	-14.11	+49.55
NDF 6M	26.5500	+1.03	+0.99	-12.78	+52.59
NDF 1Y	27.5500	+0.99	+0.95	-11.53	+49.32
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	31.250	-1.39	-1.84	+5.63	-29.72
UAH real CPI	64.902	-1.39	-1.84	+5.63	-25.12
UAH real PPI	88.899	-1.39	-1.84	+5.63	-24.51
USD nom'l	96.979	-0.22	-1.59	+2.94	+7.43
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	57.4284	-0.53	-3.40	-6.50	-5.45
EUR/USD	1.0970	+0.42	+0.98	-3.44	-9.32
USD/CNY	6.2129	+0.12	-0.26	-0.75	+0.12
USD/PLN	3.7258	-0.53	-2.13	+1.77	+5.14
USD/TRY	2.5872	+1.38	+0.70	+3.98	+10.80
USD/BYR	14,550.00	-0.34	-3.55	-2.68	+32.27
USD/KZT	186.0100	+0.00	+0.32	+0.51	+2.01
OTHER MAJOR CURRENCIES					
USD/JPY	119.4900	-0.23	-0.52	+0.53	-0.24
GBP/USD	1.4880	+0.20	-0.65	-4.17	-4.47
USD/CHF	0.9597	+0.16	-1.91	+1.19	-3.48
AUD/USD	0.7845	-0.41	+0.91	-0.53	-4.04
USD/CAD	1.2520	+0.22	-0.37	+0.68	+7.74
USD/BRL	3.2010	+1.96	-0.30	+11.57	+20.45
USD/KRW	1,101.02	-0.33	-2.54	+0.17	+0.92
COMMODITIES					
Gold(\$/oz)	1,195.43	+0.18	+2.39	-0.80	+0.89
WTI crude ³	48.66	+3.29	+8.96	-3.43	-8.65
Brent crd ³	54.36	+2.14	+0.13	-11.32	-2.51
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	217.16	+0.75	+2.41	-3.03	-5.57

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.

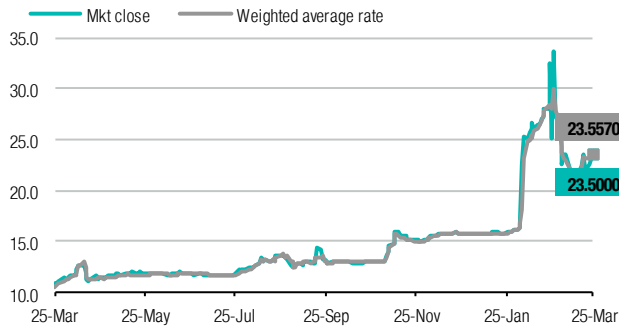
Sources: Bloomberg, Investment Capital Ukraine LLC.

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

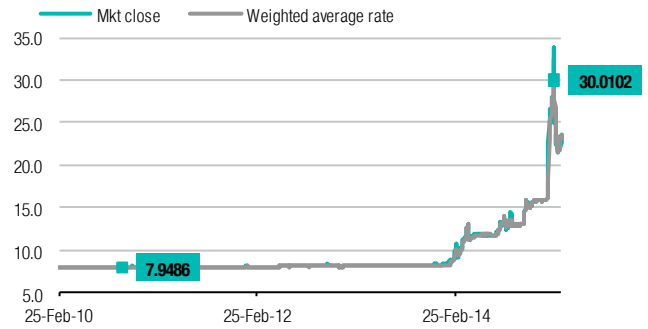
Section on FX market is continued on next page.

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)

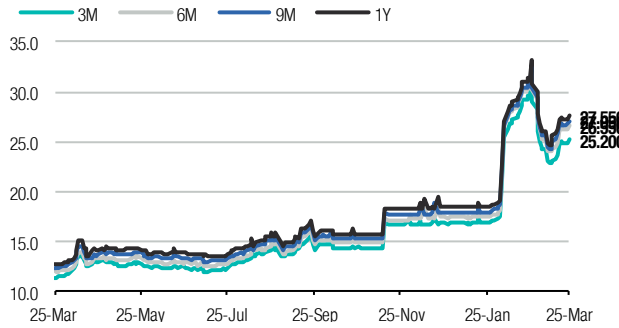


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

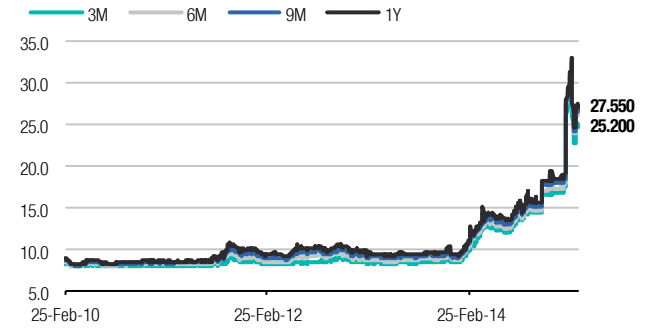


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

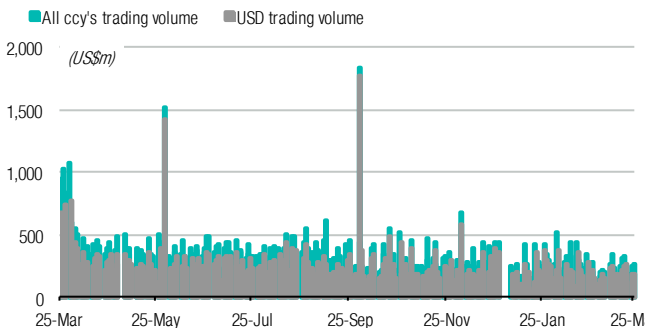


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

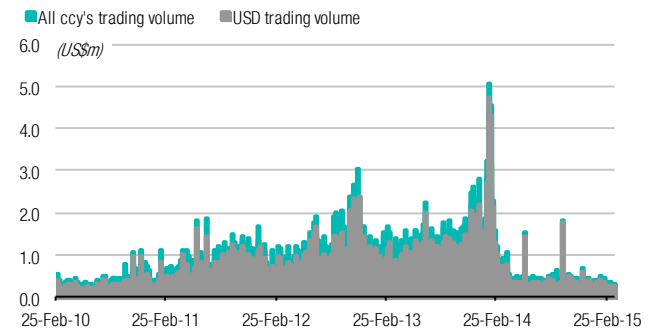


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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.

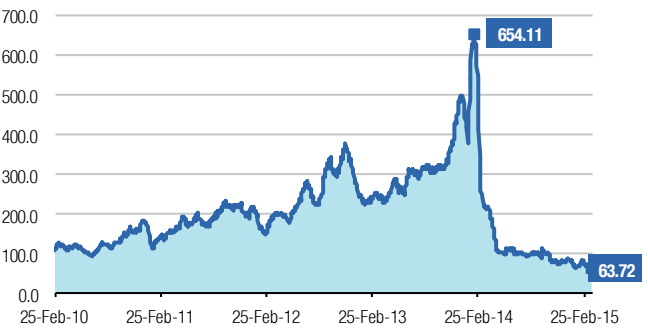
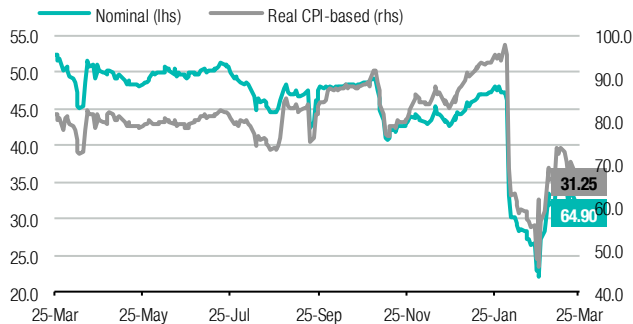


Chart page #2: ICU's UAH trade-weighted indices

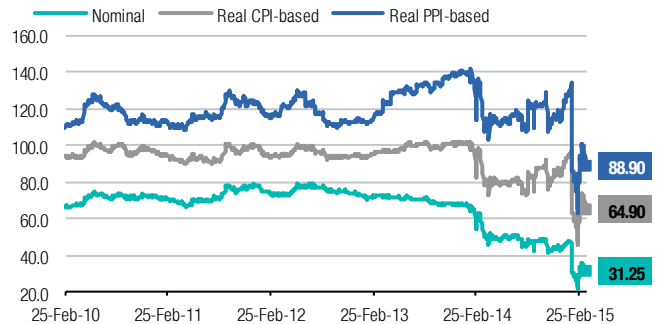
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



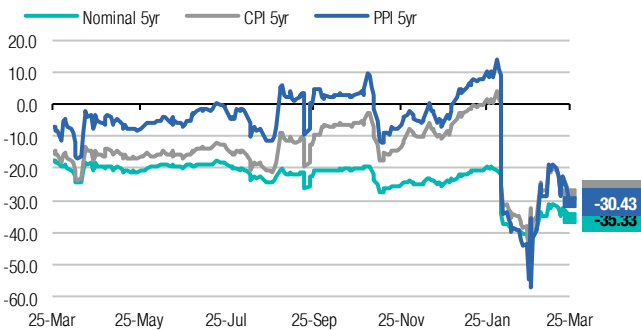
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

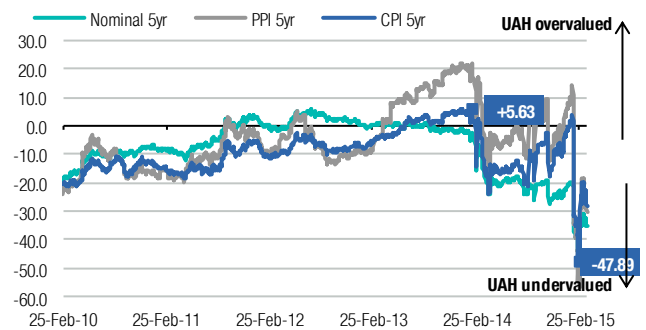


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

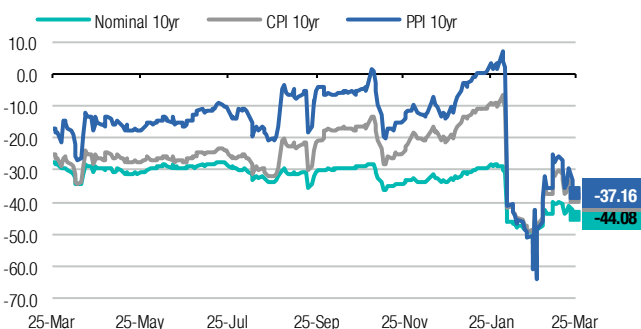


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

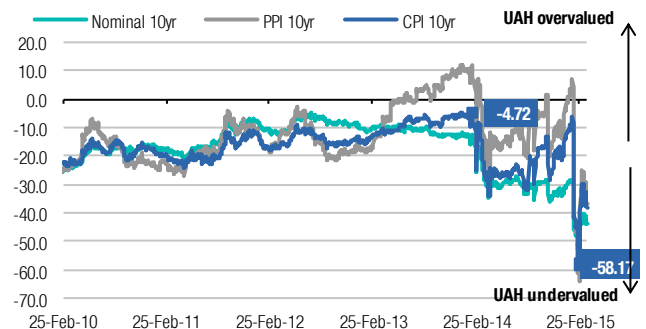


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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

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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