



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

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Daily Insight

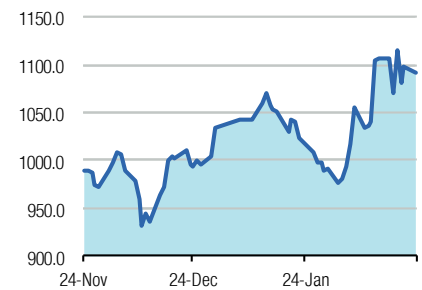
Hryvnia at new distressed low

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TUESDAY, 24 FEBRUARY 2015

UX Index (3 months to 24 Feb 2015)



Source: UX.

Key market indicators (as of 23 Feb 2015)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	28.0000	+0.00	+76.99
USD/UAH (1Y NDF)	30.9500	+0.00	+67.75
EUR/USD	1.1335	-0.40	-6.31
USD/RUB	63.7045	+2.65	+4.89
KievPRIME O/N (%)	17.00	-25bp	-190bp
KievPRIME 1M (%)	22.00	-50bp	+210bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	151.88	+90bp	+9,012bp
Ukraine 17, Eurobond (%)	47.47	+4bp	+1,971bp
Ukraine 22, Eurobond (%)	23.28	+0bp	+703bp
Ukraine 23, Eurobond (%)	22.52	+0bp	+696bp
Ukraine 5Y CDS	4,281bp	+662bp	+2,082bp
EQUITIES			
Stock market indices			
UX (Ukraine)	1,091.52	-0.67	+5.63
MSCI World	431.62	+0.10	+3.48
MSCI EM	983.47	-0.10	+2.84
RTS (Russia)	N/A		
WIG-20 (Poland)	2,365.58	+0.71	+2.14
S&P 500 (USA)	2,109.66	-0.03	+2.47

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

Scheduled primary auction

The MoF is scheduled to offer two bonds denominated in local currency with 2-year and 5-year maturities. Most likely in anticipation of receiving the debut tranche from the IMF at the beginning of March, the MoF did not offer FX-denominated bonds. After significant FX repayments last week, as today's FX repayments of US\$50.0m are minimal, the MoF will not need additional FX proceeds until mid-March.

With UAH2.12bn of principal and interest repayments scheduled this week, mostly for VAT-bonds issued in 2010, the MoF might require additional financing and could utilize domestic QE for support.

Investment implications: We anticipate no market demand today as local currency bonds with these maturities routinely sell at below-market interest rates. If domestic QE is withheld, we expect no demand today.

Liquidity reallocation

Last Friday's cash flows did little to bolster liquidity despite it being the final day for quarterly tax payments. Broader banking sector liquidity slid UAH0.04bn to UAH52.50bn yesterday as banks' correspondent accounts with the NBU increased UAH1.16bn to UAH33.32bn and total CDs outstanding declined UAH0.99bn to UAH13.66bn. Total local currency debt repayments scheduled for the next 30 days slid UAH0.22bn to UAH5.52bn yesterday.

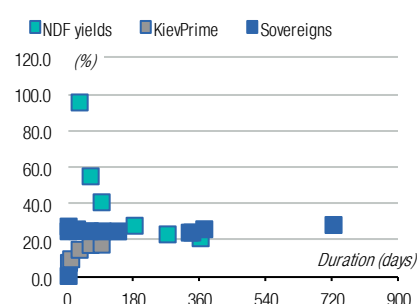
KyivPrime interest rates declined: the KyivPrime ON interest rate slid 25bp to 17.00% while the KyivPrime 1M interest rate declined 50bp to 22.00%.

Investment implications: The MoF's repayments and the NBU's decrease of CDs outstanding were the main source for the increase in banks' correspondent accounts with the NBU. As the NBU refinanced its ON loans and slightly increased their volume, liquidity did not decline significantly. However, as this week's month-end tax payments will require larger injections of liquidity, we expect liquidity to decline significantly.

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Yield curve of the local bond market

(as of market close on 23 Feb 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 23 Feb 2015)

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

MONEY MARKET KIEV PRIME RATES (%)

O/n	17.00	-25bp	+200bp	+600bp	-190bp
1wk	18.67	-33bp	+67bp	+517bp	-33bp
1m	22.00	-50bp	+0bp	+375bp	+210bp
2m	21.17	-71bp	+150bp	+192bp	+117bp
3m	21.17	-71bp	+150bp	+192bp	+117bp

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	336,717	+0.01	+1.28	+4.13	+5.84
Banks	128,781	+1.09	+7.46	+40.21	+37.83
Resid's ⁴	28,776	-0.32	-12.46	+21.03	+17.21
Non-res ⁵	32,206	+1.64	+2.88	+51.96	+49.49
Total	526,480	+0.35	+1.94	+14.41	+15.04

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	N/A	-24ppt	+0bp	-24ppt	-24ppt

EUROBONDS USD SOVEREIGN BOND YIELDS (%)

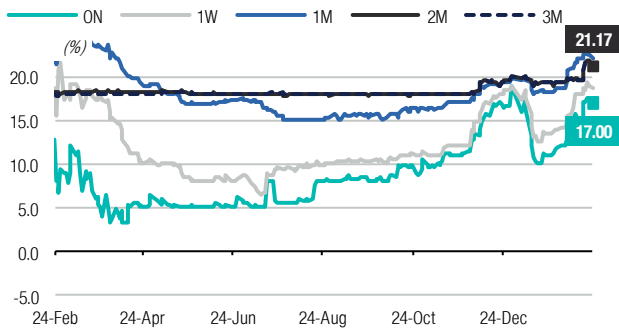
CDS 5yr	4,281	+662bp	+16bp	+20bp	+21bp
Jun '16	68.63	+14bp	+12bp	+604bp	+32bp
Jul '17	47.47	+4bp	+944bp	+805bp	+20bp
Sep '20	30.46	+105bp	+669bp	+833bp	+12bp
Sep '21	26.47	+1bp	+443bp	+475bp	+794bp
Sep '22	23.28	+0bp	+380bp	+327bp	+703bp
Feb '23	22.52	+0bp	+368bp	+296bp	+696bp

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.

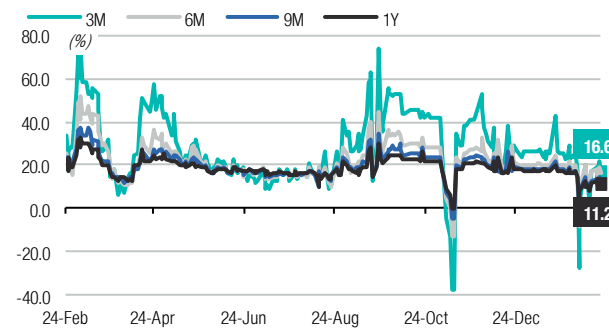
Chart page: Local bond market & Eurobond markets

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



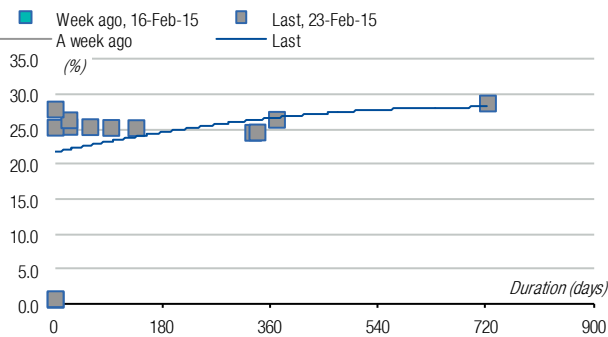
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



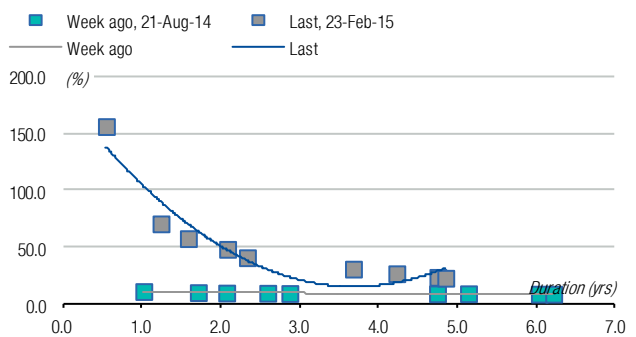
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 23 Feb 2015



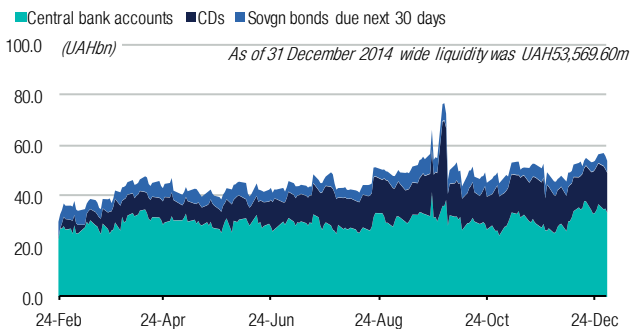
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 23 Feb 2015



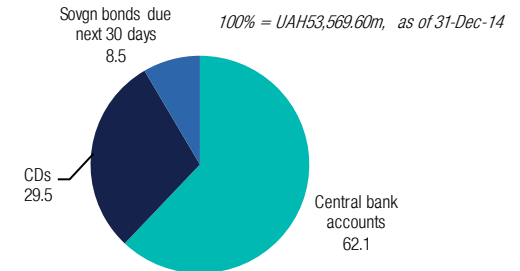
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



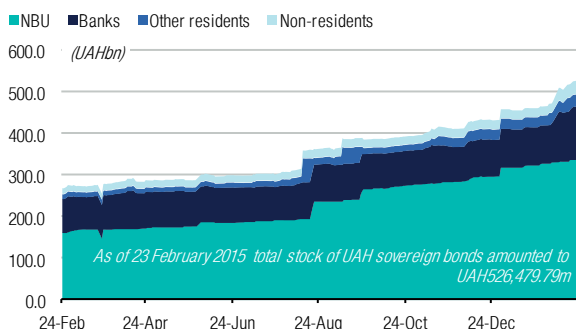
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 23 Feb 2015



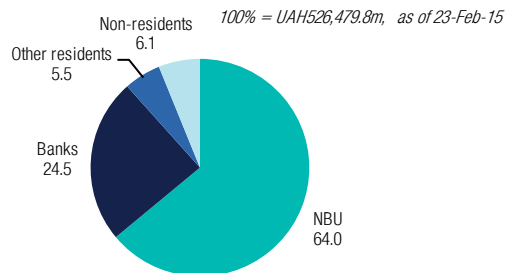
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 23 Feb 2015



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

Table 1. Ukrainian stocks (closing prices as of 23-Feb-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	9.75 GBp	+0.0	-1.3	-2.5	-15.2	0.15	34.8	-12.8	40.2	14.0	0.0	11.9	0.06	1,640	Neg.	N/A	N/A	1.9	N/A	N/A	Neg.	N/A	N/A	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	7.83 UAH	+1.4	+5.6	+3.8	+50.1	0.28	103.6	96.8	21.7	22.5	23.5	29.8	0.13	768	5.9	5.9	Neg.	0.1	3.0	Neg.	0.4	0.2	0.3	1.1	16.3
Coal Energy	CLE PW	Warsaw	0.65 PLN	-3.0	+1.6	+4.8	-64.7	0.18	7.9	108.3	25.0	2.0	11.6	8.1	0.46	217	Neg.	N/A	N/A	4.8	N/A	N/A	0.9	N/A	N/A	0.1	39.8
Donbasenergo	DOEN UK	Kiev, UX	29.70 UAH	-1.0	-6.2	-10.0	-25.8	1.06	25.1	53.6	14.2	3.6	1.7	4.8	0.13	799	1.3	0.8	5.4	0.1	1.2	2.5	0.3	0.2	0.4	1.1	25.1
JKX Oil & Gas	JKX LN	London	36.00 GBp	+18.0	+196.9	+200.0	-44.0	0.56	95.7	100.9	47.2	45.2	874.4	424.7	0.98	102	14.7	16.0	2.9	1.5	2.0	1.6	0.6	0.6	0.6	0.2	5.5
Regal Petroleum	RPT LN	London	3.75 GBp	-16.7	-3.8	+20.0	-70.0	0.06	18.6	-11.5	80.9	15.0	0.0	2.9	0.01	10,535	Neg.	9.3	N/A	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	138.20 UAH	+0.0	+2.4	-6.7	+6.3	4.95	63.3	70.1	5.0	3.2	0.0	0.4	0.00	378,837	3.1	N/A	N/A	0.5	N/A	N/A	0.2	N/A	N/A	1.2	0.0
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	-1.4	+1.3	-4.8	-65.2	0.00	12.7	1,038.1	3.9	0.5	0.1	0.8	0.09	1,108	Neg.	Neg.	N/A	Neg.	Neg.	N/A	2.0	1.1	N/A	N/A	85.7
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.35 UAH	-3.6	-2.2	-22.0	-59.6	0.05	9.4	-13.0	4.0	0.4	0.7	1.7	0.26	378	Neg.	Neg.	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.1	0.1
Azovstal	AZST UK	Kiev, UX	0.84 UAH	+0.1	+17.5	+12.5	+10.3	0.03	126.1	106.1	4.1	5.2	1.6	5.2	0.08	1,217	Neg.	Neg.	N/A	Neg.	5.4	N/A	0.1	0.1	N/A	0.3	0.0
Ferrexpo PLC	FXPO LN	London	65.00 GBp	+0.8	+10.6	+22.6	-60.9	1.00	591.1	1,242.6	22.4	132.4	802.8	1,061.4	0.83	121	2.3	2.4	9.1	2.5	2.7	4.9	0.8	0.9	1.1	0.5	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.28 UAH	+9.2	-13.9	+1.4	-57.3	0.01	2.8	3.2	9.0	0.3	0.0	0.4	0.02	4,788	Neg.	0.5	0.3	0.0	0.3	N/A	0.0	0.0	0.0	0.1	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	17.90 UAH	-4.0	-8.3	-14.6	-56.3	0.64	6.8	2.0	9.4	0.6	0.3	2.3	0.33	301	Neg.	Neg.	N/A	0.4	0.1	N/A	0.0	0.0	N/A	0.8	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.38 EUR	+2.7	+2.7	-11.6	-69.6	0.43	39.8	88.7	34.0	13.5	4.7	20.9	0.26	389	Neg.	N/A	N/A	Neg.	N/A	N/A	1.5	N/A	N/A	0.8	35.9
Agroliga	AGL PW	Warsaw	9.35 PLN	+2.4	-4.5	+3.9	-61.0	2.54	3.9	4.7	16.7	0.6	3.4	3.4	0.54	184	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	1.32 PLN	+0.0	-7.7	+7.3	-70.7	0.36	7.8	53.1	26.2	2.0	20.8	37.7	2.41	42	Neg.	N/A	N/A	19.8	17.7	N/A	0.7	0.6	N/A	0.1	28.4
Astarta Holdin...	AST PW	Warsaw	24.40 PLN	+0.8	-8.5	+22.0	-58.4	6.62	165.4	407.9	31.0	51.3	0.8	113.4	0.19	533	5.7	Neg.	Neg.	5.4	3.4	6.1	1.0	0.9	1.1	0.6	38.2
Avangard	AVGR LI	London Intl	3.00 USD	+0.0	+57.1	+46.3	-72.7	3.00	191.6	402.8	21.7	41.6	0.0	71.1	0.22	460	0.8	2.1	1.6	1.3	2.4	2.3	0.6	0.7	0.8	0.2	17.8
IMC	IMC PW	Warsaw	6.27 PLN	-9.1	+8.1	+10.6	-40.2	1.70	53.2	192.4	23.9	12.7	6.0	5.9	0.04	2,610	2.0	Neg.	6.5	3.6	3.7	3.8	1.7	1.2	1.2	0.3	38.7
Kernel Holding...	KER PW	Warsaw	31.00 PLN	-1.3	-4.6	+8.9	-18.4	8.40	669.7	1,314.1	58.8	393.6	315.2	1,177.9	0.28	353	Neg.	4.6	4.6	5.9	3.9	4.0	0.5	0.6	0.5	0.7	39.1
KSG Agro	KSG PW	Warsaw	1.11 PLN	-1.8	+3.7	-0.9	-86.1	0.30	4.5	91.4	34.4	1.6	3.7	17.4	1.46	69	Neg.	N/A	0.2	10.5	N/A	N/A	1.2	1.0	0.8	0.2	44.5
MHP	MHPC LI	London Intl	10.00 USD	+0.0	+8.1	+8.7	-35.1	10.00	1,056.7	2,187.1	22.3	235.8	0.0	460.6	0.24	424	6.8	85.4	3.7	5.6	4.2	4.3	1.5	1.5	1.5	2.1	47.0
Milkiland	MLK PW	Warsaw	3.15 PLN	-0.3	+55.9	+112.8	-69.1	0.85	26.7	140.7	20.0	5.3	60.4	45.8	1.21	83	2.2	Neg.	Neg.	4.2	4.4	4.7	0.4	0.4	0.6	0.1	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	0.50 EUR	+2.0	-12.4	-11.0	-90.3	0.57	60.2	788.0	20.0	12.0	2.8	0.9	0.01	9,472	0.7	0.7	0.3	4.8	2.9	2.6	1.6	1.9	1.8	0.1	45.3
Ovostar Union	OVO PW	Warsaw	70.97 PLN	+0.6	-3.4	-1.4	-4.2	19.24	115.5	125.1	25.0	28.9	1.2	38.7	0.23	430	3.8	4.7	6.2	3.4	4.0	4.6	1.4	1.6	1.4	0.9	8.5
TRANSPORTATION																											
KDM Shipping	KDM PW	Warsaw	5.64 PLN	+12.8	-15.3	+39.3	-80.7	1.53	14.2	1.7	10.9	1.5	0.0	0.3	0.03	2,976	2.1	N/A	N/A	0.2	N/A	N/A	0.1	N/A	N/A	0.2	5.6
CONSTRUCTION																											
TMM	TR61 GF	Frankfurt	0.11 EUR	+0.0	+22.2	+37.5	-59.4	0.12	6.5	133.6	13.1	0.8	0.0	0.1	0.01	15,775	Neg.	N/A	N/A	Neg.	N/A	N/A	3.9	N/A	N/A	0.1	45.5
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.10 UAH	+0.8	+11.0	+4.1	-27.3	0.00	107.2	N/A	3.8	4.1	9.9	9.0	0.19	533	3.0	Neg.	12.7	N/A	N/A	N/A	N/A	N/A	N/A	0.5	22.4

Table 1. Ukrainian stocks (closing prices as of 23-Feb-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	+3.5	-4.2	-11.7	-38.3	0.00	101.5	N/A	4.5	4.5	0.0	0.4	0.01	8,067	Neg.	9.9	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

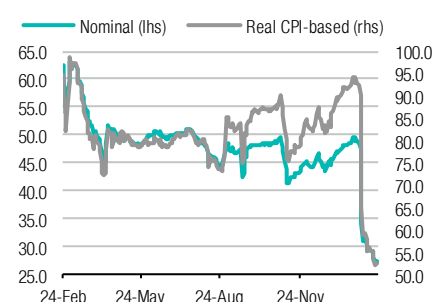
Hryvnia at new distressed low

The hryvnia abruptly dropped 10% at the FX market open yesterday, hitting a midday low of 31/USD, before the NBU announced new administrative measures to stop the freefall. Measures include banning businesses from borrowing to buy FX, essentially curtailing imports, which will have a severe impact on businesses heavily reliant on imports. In our view, the FX market now faces a range of regulation that narrows FX speculation and maneuvering. With the hryvnia at 31 per dollar now appearing highly competitive (Chart Chart 15, p.8), the NBU's new measures could result in a new US dollar pegged rate.

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ICU's UAH trade-weighted indices

(Last 12-month history to 24 Feb 2015)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 23 Feb 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	28.0000	+0.00	+6.06	+76.75	+76.99
NBU avg	28.3481	+1.76	+8.82	+79.51	+79.78
Ttl vlm ¹	348.26	+47.79	+142.0	+21.93	-19.18
\$ volume ²	281.07	+65.98	+208.4	+30.72	-20.67
NDF 3M	29.1500	+0.00	+6.62	+73.00	+73.00
NDF 6M	30.2500	+0.00	+6.36	+73.85	+73.85
NDF 1Y	30.9500	+0.00	+6.21	+67.75	+67.75
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	27.398	+0.95	-5.59	-43.40	-40.09
UAH real CPI	52.167	+0.95	-5.59	-43.40	-38.95
UAH real PPI	73.645	+0.95	-5.59	-43.40	-40.09
USD nom'l	94.569	+0.34	+0.39	-0.20	+4.76
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	63.7045	+2.65	+0.80	+0.00	+4.89
EUR/USD	1.1335	-0.40	-0.18	+1.17	-6.31
USD/CNY	6.2565	+0.00	+0.12	+0.45	+0.82
USD/PLN	3.6883	+0.73	+0.24	-1.71	+4.08
USD/TRY	2.4748	+0.87	+0.75	+5.32	+5.99
USD/BYR	14,900.00	+0.00	-1.94	-1.65	+35.45
USD/KZT	185.0500	-0.12	-0.03	+0.48	+1.48
OTHER MAJOR CURRENCIES					
USD/JPY	118.8100	-0.18	+0.28	+0.88	-0.81
GBP/USD	1.5457	+0.38	+0.61	+3.12	-0.77
USD/CHF	0.9498	+1.24	+1.92	+7.92	-4.48
AUD/USD	0.7802	-0.51	+0.37	-1.39	-4.56
USD/CAD	1.2571	+0.32	+0.84	+1.22	+8.17
USD/BRL	2.8786	+0.32	+1.55	+11.56	+8.32
USD/KRW	1,108.74	-0.31	+0.59	+2.28	+1.63
COMMODITIES					
Gold(\$/oz)	1,201.63	-0.03	-2.43	-7.15	+1.42
WTI crude ³	48.55	-3.56	+0.00	+7.36	-8.86
Brent crd ³	58.57	-2.04	-2.19	+27.63	+5.04
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	221.97	-1.24	-3.15	+2.47	-3.48

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.

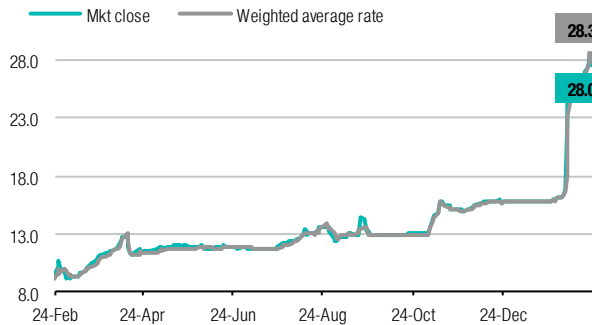
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

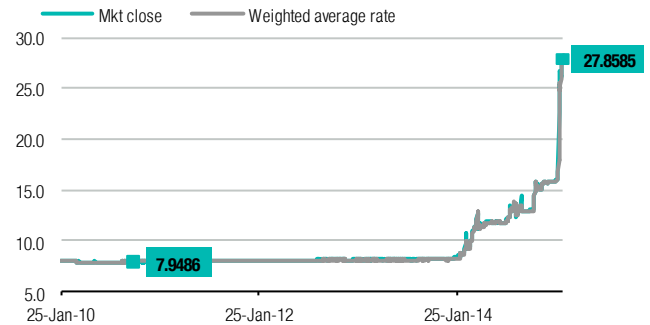
Section on FX market is continued on next page.

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)

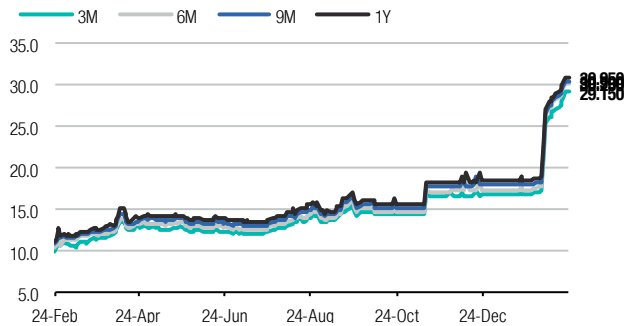


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

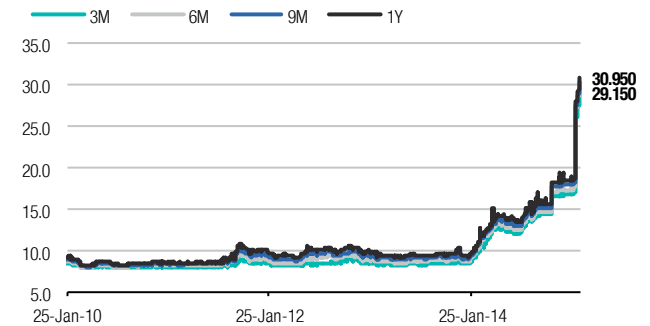


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

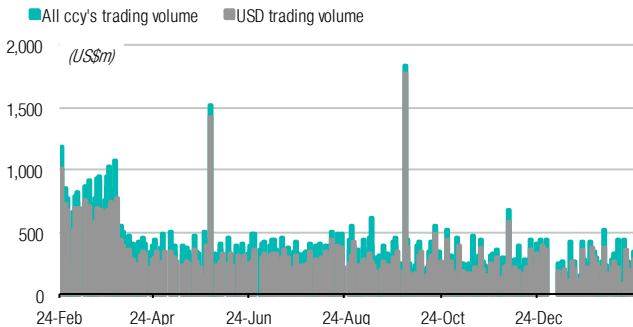


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

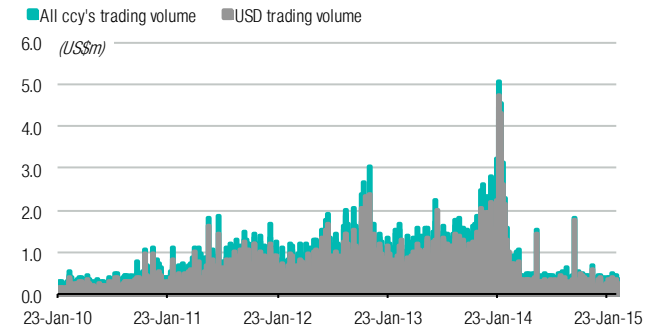


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

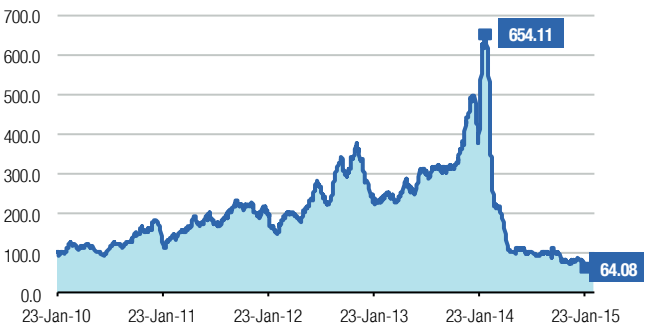
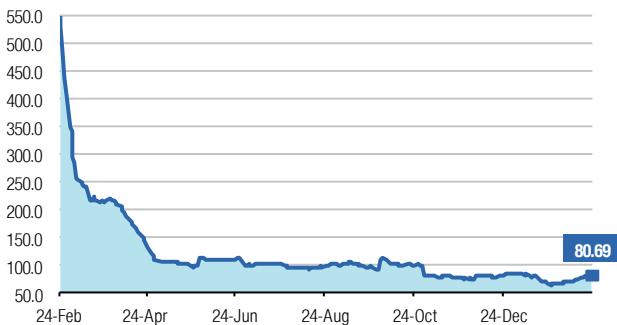


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

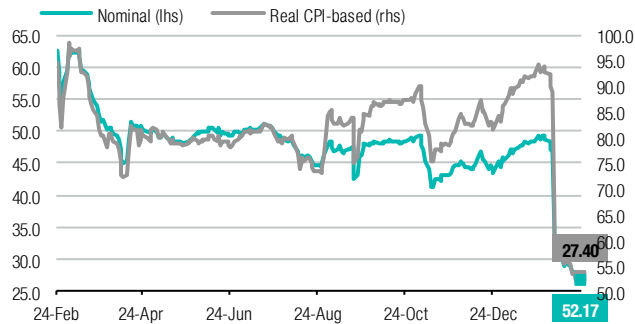


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

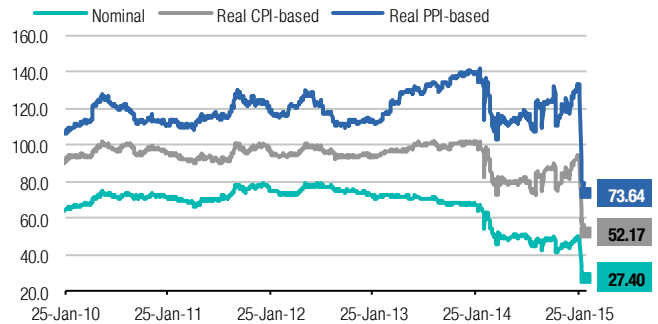
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



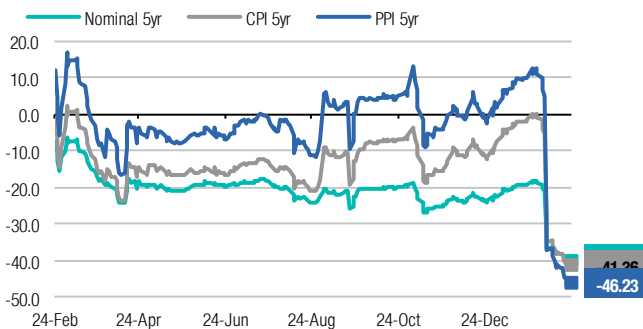
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

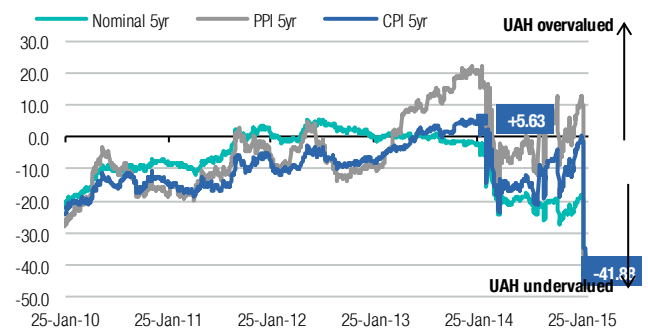


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

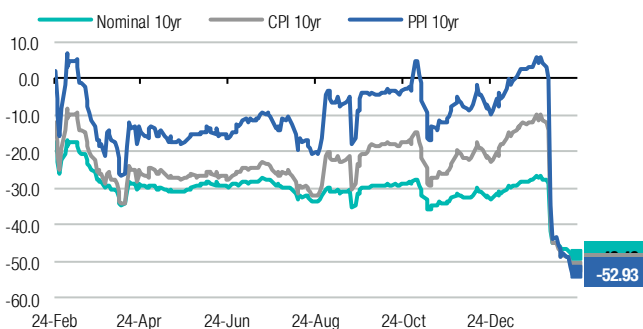


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

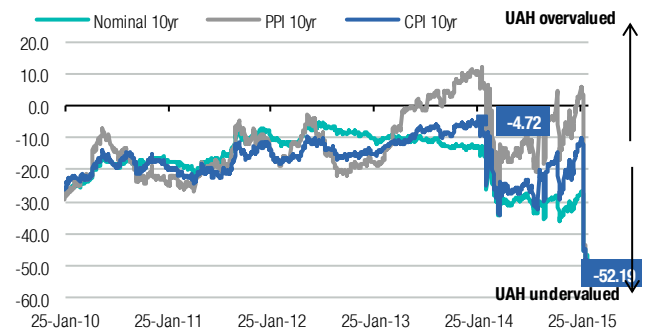


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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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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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