



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

Research team
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Daily Insight

Liquidity down significantly

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FRIDAY, 16 JANUARY 2015

UX Index (3 months to 16 Jan 2015)



Source: UX.

Key market indicators (as of 15 Jan 2015)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	15.8260	+0.03	+0.04
USD/UAH (1Y NDF)	18.4500	-0.49	+0.00
EUR/USD	1.1633	-1.32	-3.84
USD/RUB	65.1496	+0.77	+7.27
KievPRIME O/N (%)	10.40	-27bp	-850bp
KievPRIME 1M (%)	18.20	+20bp	-170bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	72.74	+1,488bp	+1,097bp
Ukraine 17, Eurobond (%)	34.59	-11bp	+683bp
Ukraine 22, Eurobond (%)	18.27	-14bp	+202bp
Ukraine 23, Eurobond (%)	17.59	-14bp	+202bp
Ukraine 5Y CDS	2,559bp	+26bp	+360bp
EQUITIES			
Stock market indices			
UX (Ukraine)	1,053.89	-0.38	+1.99
MSCI World	406.95	-0.11	-2.44
MSCI EM	959.97	+0.44	+0.38
RTS (Russia)	762.39	+2.60	-3.14
WIG-20 (Poland)	2,265.21	-3.06	-2.19
S&P 500 (USA)	1,992.67	-0.92	-3.22

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 down significantly

Broader banking sector liquidity fell UAH3.08bn to UAH58.82bn yesterday after setting a record high on Wednesday. Banks' correspondent accounts with the NBU fell UAH3.34bn to UAH31.10bn and total local currency debt repayments scheduled for the next 30 days declined UAH0.70bn to UAH5.81bn. Total CDs outstanding rose UAH0.96bn to UAH21.91bn yesterday.

KyivPrime interest rates slightly diverged: the KyivPrime ON interest rate slid 27bp to 10.40% while the KyivPrime 1M interest rate rose 20bp to 18.20%.

Investment implications: *Despite the MoF repaying UAH0.70bn in local currency on Wednesday and the NBU issuing an additional UAH0.69bn in 13-days loans to seven banks, liquidity fell significantly yesterday, possibly as a result of the NBU requesting pre-payment of some loans to decrease liquidity in the banking system. Liquidity should fall once more today after yesterday's primary auction (see comment below) if the NBU did not support this demand via domestic QE.*

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Primary auction results

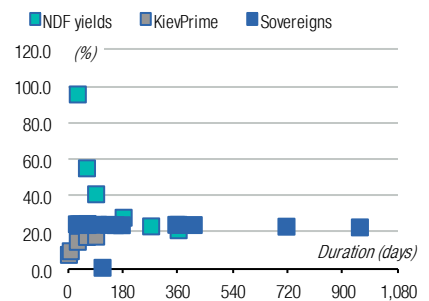
The MoF held an unscheduled primary auction yesterday, offering only one 3-month bond instead of the 6-month, 2-year and 5-year bonds scheduled this past Tuesday. After demand for the 6-month bonds at 19-20% was rejected, the MoF collected four bids for a total of UAH3.23bn (par value) at 17% to raise UAH3.12bn in proceeds.

Investment implications: *The MoF appears to have negotiated with potential investors to set rates at an agreed upon level to satisfy both the MoF's and banks' needs. Although banking sector liquidity was very high with slight absorption by the NBU, forthcoming NBU statistics on bondholders' portfolios will show whether or not domestic QE support was utilized.*

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Yield curve of the local bond market

(as of market close on 15 Jan 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 15 Jan 2015)

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

MONEY MARKET KIEV PRIME RATES (%)

O/n	10.40	-27bp	-698bp	-520bp	-850bp
1wk	13.30	+30bp	-520bp	-350bp	-570bp
1m	18.20	+20bp	-155bp	-90bp	-170bp
2m	19.40	+40bp	-60bp	+0bp	-60bp
3m	19.40	+40bp	-60bp	+0bp	-60bp

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	318,124	+0.00	+0.00	+7.73	+0.00
Banks	91,851	-0.09	-0.17	+2.19	-1.69
Resid's ⁴	23,528	-0.94	-0.84	-4.72	-4.16
Non-res ⁵	21,152	+0.09	+0.03	-1.73	-1.82
Total	454,656	-0.06	-0.08	+5.39	-0.65

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	+8bp	+0bp	+8bp	+0bp

EUROBONDS USD SOVEREIGN BOND YIELDS (%)

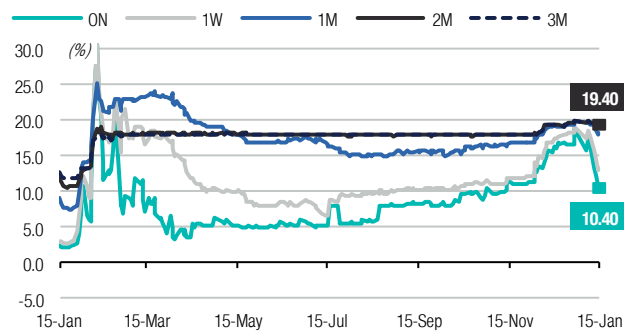
CDS 5yr	2,559	+26bp	+531bp	+214bp	+360bp
Jun '16	44.91	+194bp	+800bp	+671bp	+800bp
Jul '17	34.59	-11bp	+683bp	+394bp	+683bp
Sep '20	20.33	-15bp	+149bp	+142bp	+149bp
Sep '21	19.94	-15bp	+140bp	+115bp	+140bp
Sep '22	18.27	-14bp	+202bp	+153bp	+202bp
Feb '23	17.59	-14bp	+202bp	+130bp	+202bp

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.

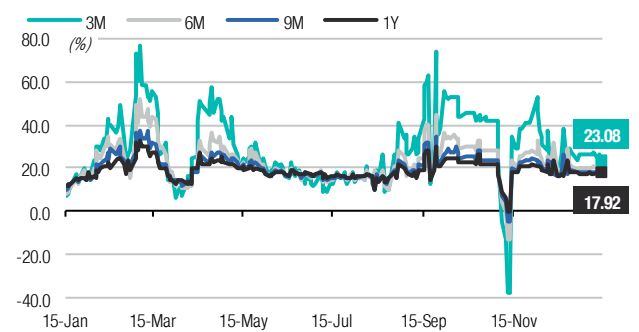
Chart page: Local bond market & Eurobond markets

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



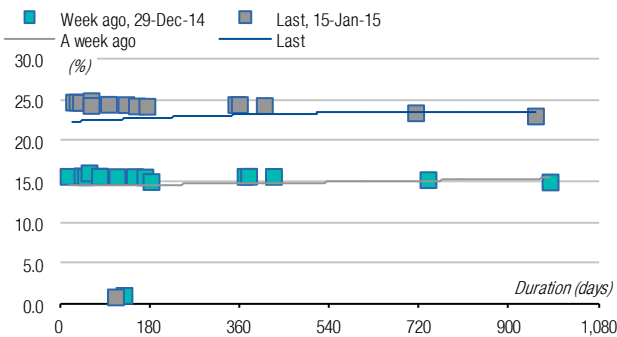
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



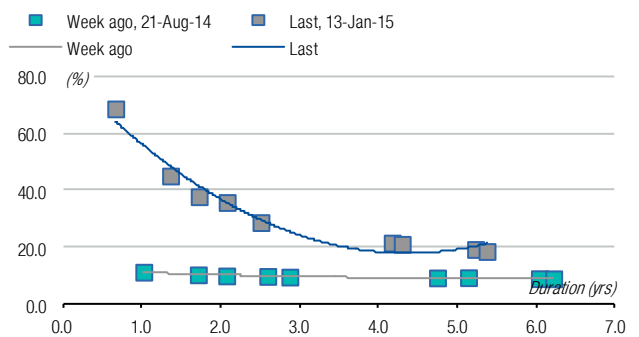
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 15 Jan 2015



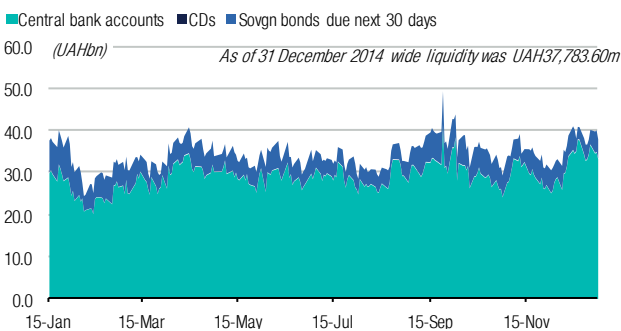
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 15 Jan 2015



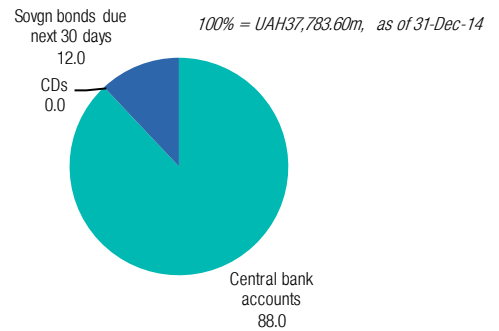
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



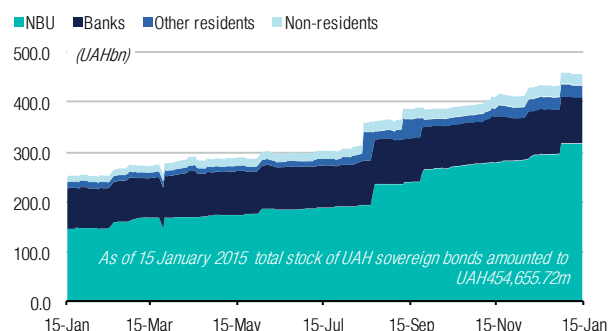
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 15 Jan 2015



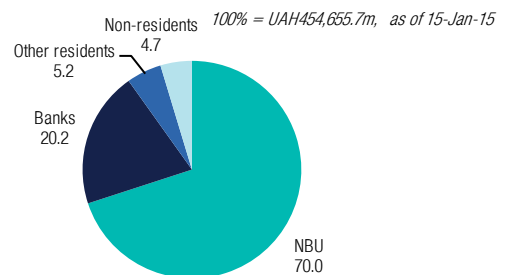
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 15 Jan 2015



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

Table 1. Ukrainian stocks (closing prices as of 15-Jan-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	9.38 GBp	+4.2	-9.6	-6.3	-20.2	0.14	32.9	-14.7	40.2	13.2	5.2	12.7	0.03	3,095	Neg.	N/A	N/A	2.2	N/A	N/A	Neg.	N/A	N/A	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	7.63 UAH	+0.0	+2.8	+1.1	+63.3	0.48	178.0	166.1	21.7	38.6	29.8	47.9	0.12	869	5.8	4.9	7.6	0.2	2.9	3.1	0.4	0.2	0.2	1.1	16.3
Coal Energy	CLE PW	Warsaw	0.69 PLN	-4.2	-1.4	+11.3	-46.1	0.19	8.4	134.3	25.0	2.1	5.9	12.1	0.37	270	Neg.	N/A	N/A	6.0	N/A	N/A	1.1	N/A	N/A	0.1	39.8
Donbasenergo	DOEN UK	Kiev, UX	32.47 UAH	+0.0	+2.0	-1.6	+5.6	2.05	48.5	98.7	14.2	6.9	8.3	8.0	0.22	462	1.4	1.3	1.2	0.1	1.8	1.3	0.3	0.2	0.2	1.2	25.1
JXK Oil & Gas	JXK LN	London	12.13 GBp	-1.0	-4.9	+1.0	-82.9	0.18	31.6	36.8	47.2	14.9	30.4	72.8	0.98	102	4.9	5.3	1.0	0.6	0.7	0.6	0.2	0.2	0.2	0.1	5.5
Regal Petroleum	RPT LN	London	3.70 GBp	+0.0	-17.9	+18.2	-73.8	0.06	18.0	-12.1	80.9	14.6	0.0	2.8	0.04	2,552	Neg.	9.0	N/A	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	138.00 UAH	+0.0	-9.6	-6.8	+51.3	8.72	111.5	123.6	5.0	5.6	4.8	1.4	0.02	4,167	3.1	N/A	N/A	0.8	N/A	N/A	0.2	N/A	N/A	1.2	0.0
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	+0.0	-3.3	+0.0	-59.9	0.00	23.6	1,833.1	3.9	0.9	1.0	1.7	0.28	355	Neg.	Neg.	N/A	Neg.	Neg.	N/A	2.0	1.2	N/A	N/A	85.7
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.70 UAH	+0.0	+2.2	-1.8	-38.9	0.11	20.9	17.8	4.0	0.8	0.1	3.5	0.80	126	Neg.	Neg.	N/A	0.0	0.7	N/A	0.0	0.0	N/A	0.1	0.1
Azovstal	AZST UK	Kiev, UX	0.77 UAH	+0.0	+9.2	+3.1	+23.1	0.05	204.0	N/A	4.1	8.4	12.8	8.4	0.10	1,031	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	0.2	0.0	
Ferrexpo PLC	FXPO LN	London	53.00 GBp	-2.8	+9.0	+0.0	-69.1	0.81	474.1	676.6	22.4	106.2	1,542.5	802.1	0.81	123	1.8	1.9	4.9	1.3	1.5	2.3	0.4	0.5	0.5	0.4	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.25 UAH	+0.0	-8.9	-12.1	-55.7	0.02	4.3	4.9	9.0	0.4	1.1	0.7	0.41	245	Neg.	0.5	0.3	0.0	0.3	N/A	0.0	0.0	0.0	0.0	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	20.74 UAH	+0.0	+10.2	-1.0	-35.2	1.31	13.8	5.5	9.4	1.3	0.2	4.1	0.30	337	Neg.	Neg.	N/A	1.0	0.2	N/A	0.0	0.0	N/A	1.0	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.36 EUR	+0.0	-18.2	-16.3	-71.4	0.42	38.7	89.0	34.0	13.2	11.2	10.9	0.10	1,021	Neg.	N/A	N/A	Neg.	N/A	N/A	1.4	N/A	N/A	0.8	35.9
Agroliga	AGL PW	Warsaw	9.80 PLN	+0.0	-6.7	+8.9	-61.7	2.64	4.1	4.9	16.7	0.7	0.0	3.3	0.55	183	1.1	N/A	N/A	1.4	N/A	N/A	0.3	N/A	N/A	0.4	5.7
Agroton	AGT PW	Warsaw	1.30 PLN	-6.5	-2.3	+5.7	-53.6	0.35	7.6	52.9	26.2	2.0	50.2	36.5	1.71	59	Neg.	N/A	N/A	19.8	17.6	N/A	0.6	0.6	N/A	0.1	28.4
Astarta Holdin...	AST PW	Warsaw	25.79 PLN	-0.9	+58.7	+29.0	-60.3	6.96	174.0	400.9	31.0	54.0	158.6	116.8	0.11	873	5.8	Neg.	4.4	5.3	3.7	4.4	0.9	1.0	1.0	0.5	38.2
Avangard	AVGR LI	London Intl	2.00 USD	-4.8	-20.3	-2.4	-82.6	2.00	127.7	339.0	21.7	27.7	90.0	18.3	0.16	625	0.5	1.4	1.0	1.1	2.0	1.9	0.5	0.6	0.6	0.2	17.8
IMC	IMC PW	Warsaw	6.00 PLN	-2.3	+0.0	+5.8	-52.9	1.62	50.7	189.9	23.9	12.1	0.2	7.0	0.05	2,138	1.9	Neg.	2.1	3.5	3.7	3.7	1.7	1.2	1.1	0.3	38.7
Kernel Holding...	KER PW	Warsaw	31.95 PLN	-0.5	+22.4	+12.3	-21.0	8.62	687.0	1,331.8	58.8	403.8	921.8	1,074.4	0.24	413	Neg.	4.2	4.4	6.0	3.8	4.1	0.6	0.5	0.5	0.7	39.1
KSG Agro	KSG PW	Warsaw	1.16 PLN	-1.7	+6.4	+3.6	-88.9	0.31	4.7	115.8	34.4	1.6	24.0	37.3	0.91	109	Neg.	N/A	0.2	13.3	N/A	N/A	1.6	1.2	1.0	0.3	44.5
MHP	MHPC LI	London Intl	9.26 USD	-0.3	-2.7	+0.7	-48.8	9.26	978.5	2,108.9	22.3	218.4	960.0	373.4	0.27	373	6.3	16.4	3.5	5.4	4.3	4.3	1.4	1.5	1.5	1.9	47.0
Milkiland	MLK PW	Warsaw	1.51 PLN	-4.4	-10.1	+2.0	-85.7	0.41	12.7	129.8	20.0	2.5	6.1	9.2	0.60	167	1.0	Neg.	34.1	3.9	4.6	4.6	0.3	0.4	0.5	0.1	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	0.53 EUR	-10.2	-41.9	-5.9	-90.0	0.62	65.4	793.2	20.0	13.1	0.0	0.6	0.01	9,361	0.7	0.8	0.3	4.8	2.9	2.7	1.6	1.9	1.8	0.2	45.3
Ovostar Union	OVO PW	Warsaw	72.00 PLN	+0.0	+0.3	+0.0	-21.7	19.43	116.6	126.3	25.0	29.1	3.3	31.0	0.11	948	3.8	7.2	5.8	3.4	4.6	4.4	1.4	1.6	1.4	0.9	8.5
TRANSPORTATION																											
KDM Shipping	KDM PW	Warsaw	6.66 PLN	-0.6	+21.1	+64.4	-78.4	1.80	16.7	4.2	10.9	1.8	1.9	0.2	0.02	5,661	2.5	N/A	N/A	0.4	N/A	N/A	0.1	N/A	N/A	0.2	5.6
CONSTRUCTION																											
TMM	TR61 GF	Frankfurt	0.07 EUR	+0.0	-10.0	-10.0	-77.3	0.08	4.3	131.5	13.1	0.6	0.0	0.1	0.01	15,008	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	0.09 UAH	+0.0	-2.5	-3.6	-17.8	0.01	175.2	N/A	3.8	6.7	13.8	16.7	0.24	422	2.7	Neg.	11.7	N/A	N/A	N/A	N/A	N/A	N/A	0.4	22.4

Table 1. Ukrainian stocks (closing prices as of 15-Jan-2015)

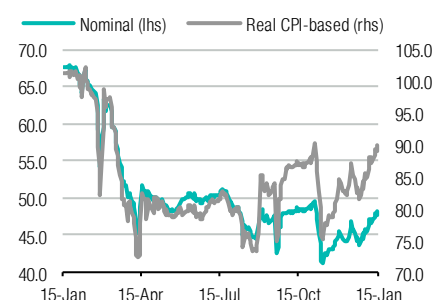
Company	Bloomberg Ticker	Listing	Share price performance (% change)				Valuation (US\$)			Free float (FF) & Liquidity					P/E			EV/EBITDA			EV/Sales			Ratios				
			Last price	Daily	MoM	YTD	YoY	Last price	Market cap (m)	EV (m)	FF (%)	FF mkt cap (US\$m)	Last day turnover (US\$ 000)	3M avg. turnover (US\$ 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	0.14 UAH	+0.0	-3.6	+3.7	-25.3	0.01	210.4	N/A	4.5	9.4	0.1	0.9	0.01	9,119	Neg.	13.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	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

ICU's UAH trade-weighted indices

(Last 12-month history to 16 Jan 2015)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 15 Jan 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	15.8260	+0.03	+0.13	+0.10	+0.04
NBU avg	15.7761	+0.03	+0.13	+0.10	+0.05
Ttl vlm ¹	230.37	-45.77	+27.84	+1.88	-46.54
\$ volume ²	180.68	-31.10	+45.46	+7.06	-49.00
NDF 3M	16.8500	+0.76	+0.00	+1.20	+0.00
NDF 6M	17.4000	+0.67	+0.00	+1.16	+0.00
NDF 1Y	18.4500	-0.49	+0.00	+1.10	+0.00
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	48.206	+1.08	+3.52	+4.66	+5.40
UAH real CPI	89.991	+1.08	+3.52	+4.66	+5.40
UAH real PPI	129.186	+1.08	+3.52	+4.66	+5.40
USD nom'l	92.352	+0.21	-0.02	+4.40	+2.31
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	65.1496	+0.77	+8.36	+1.42	+7.27
EUR/USD	1.1633	-1.32	-1.36	-6.46	-3.84
USD/CNY	6.1883	-0.14	-0.42	-0.08	-0.28
USD/PLN	3.7088	+2.72	+2.12	+10.20	+4.66
USD/TRY	2.3104	+1.28	+0.48	-2.77	-1.05
USD/BYR	15,250.00	+4.85	+11.31	+37.08	+38.64
USD/KZT	183.8700	+0.07	+0.34	+0.16	+0.83
OTHER MAJOR CURRENCIES					
USD/JPY	116.1700	-0.99	-2.92	-1.40	-3.01
GBP/USD	1.5183	-0.33	+0.62	-2.91	-2.53
USD/CHF	0.8392	-17.62	-17.60	-13.09	-15.60
AUD/USD	0.8217	+0.82	+1.16	+0.07	+0.51
USD/CAD	1.1961	+0.08	+1.10	+2.48	+2.93
USD/BRL	2.6420	+0.98	-0.77	-2.00	-0.59
USD/KRW	1,083.24	+0.12	-1.24	-1.46	-0.71
COMMODITIES					
Gold(\$/oz)	1,262.73	+2.77	+4.47	+5.82	+6.57
WTI crude ³	46.25	-4.60	-5.21	-17.28	-13.18
Brent crd ³	46.33	-2.73	-7.86	-22.56	-16.91
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	220.43	-1.28	-2.41	-8.56	-4.15

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>).

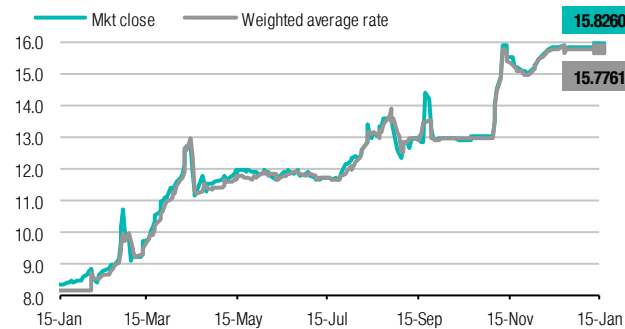
Section on FX market is continued on next page.

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.

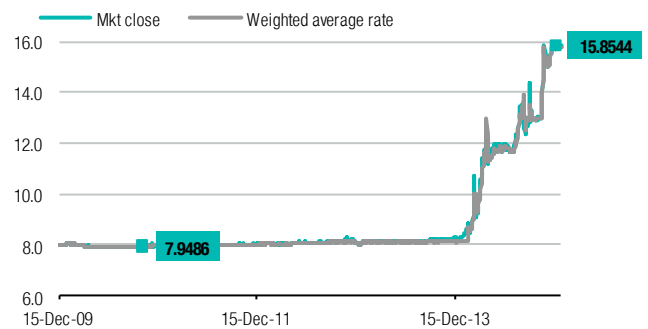
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

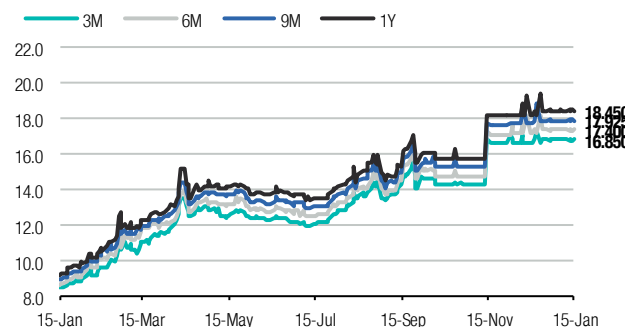


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

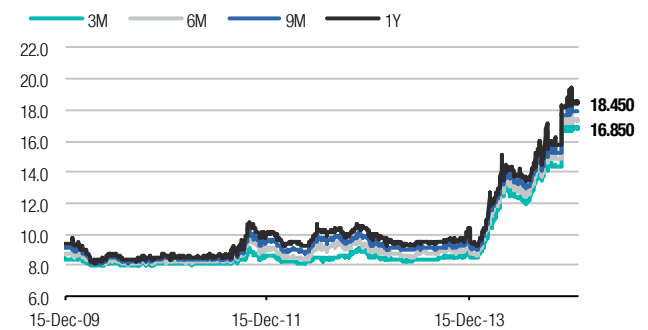


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

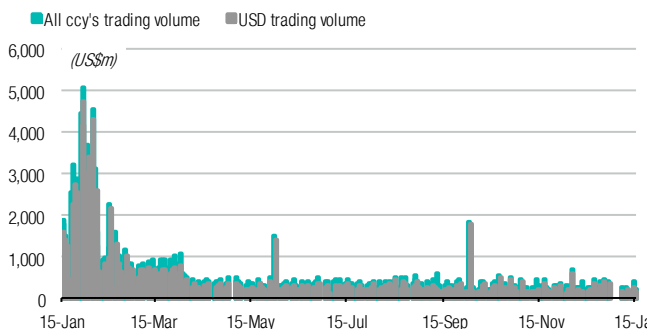


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

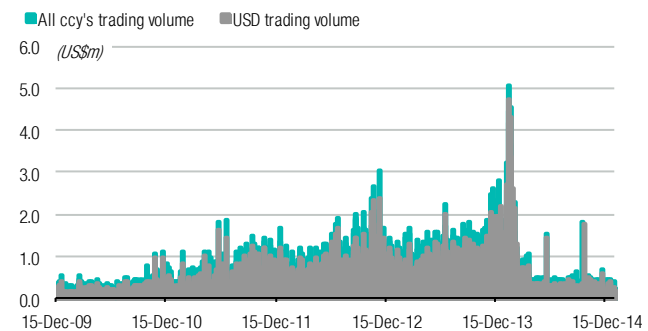


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

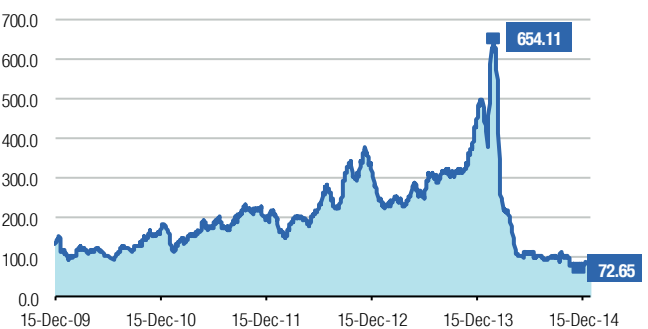
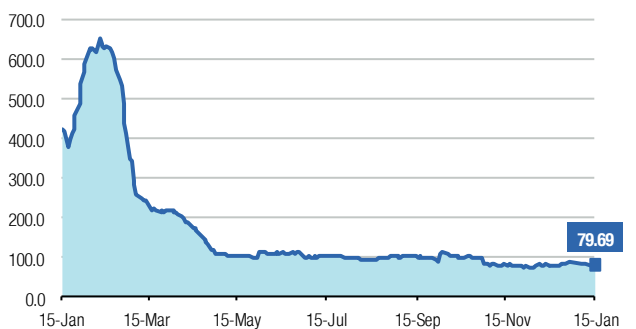


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

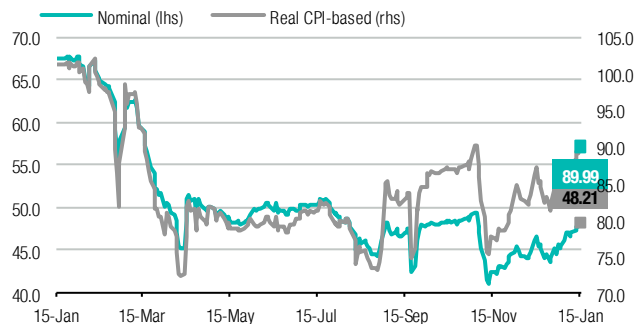


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

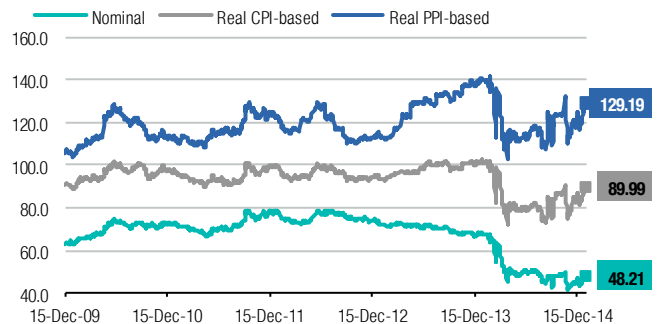
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



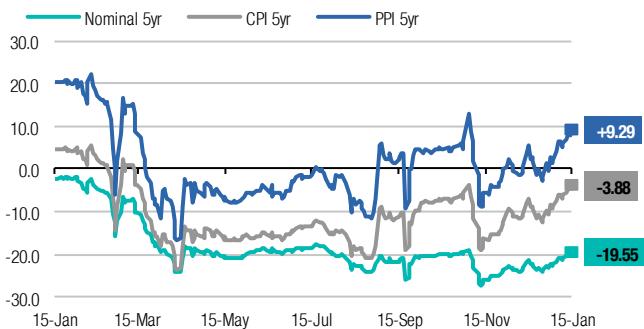
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

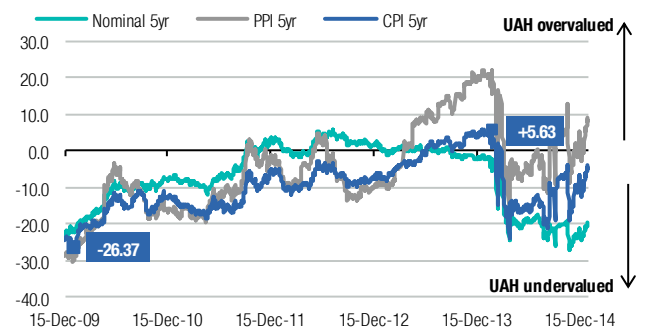


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

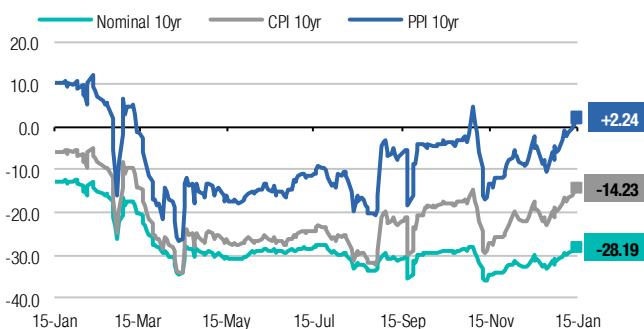


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

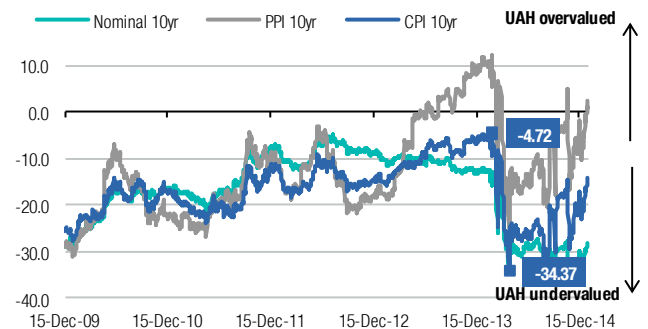


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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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