

# Daily Insight

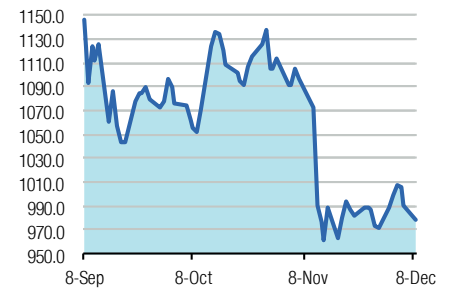
## Minsk talks to resume by Friday

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**TUESDAY, 9 DECEMBER 2014**

### UX Index (3 months to 9 Dec 2014)



Source: UX.

### Key market indicators (as of 8 Dec 2014)

	Last	Daily chg (%)	YTD chg (%)
<b>FX &amp; MONEY RATES</b>			
USD/UAH	15.5750	+0.74	+89.02
USD/UAH (1Y NDF)	18.2500	+0.00	+93.74
EUR/USD	1.2317	+0.28	-10.38
USD/RUB	53.7964	+1.71	+63.67
KievPRIME O/N (%)	13.25	-15bp	+545bp
KievPRIME 1M (%)	18.00	+0bp	+175bp
<b>SOVEREIGN EUROBONDS: yields and spreads</b>			
Ukraine 15, Eurobond (%)	33.76	+1bp	+2,540bp
Ukraine 17, Eurobond (%)	23.43	-4bp	+1,388bp
Ukraine 22, Eurobond (%)	13.93	-41bp	+458bp
Ukraine 23, Eurobond (%)	13.37	-7bp	+433bp
Ukraine 5Y CDS	1,797bp	+0bp	+980bp
<b>EQUITIES</b>			
<b>Stock market indices</b>			
UX (Ukraine)	978.88	-1.13	+7.56
MSCI World	421.72	-0.71	+3.22
MSCI EM	976.84	-0.90	-2.58
RTS (Russia)	870.37	-4.22	-39.67
WIG-20 (Poland)	2,431.89	-0.27	+1.29
S&P 500 (USA)	2,060.31	-0.73	+11.47

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.

## Economics: News & Comments

### **Minsk talks to resume by Friday**

Various media reports suggest that Donbas peace talks should resume this week in Minsk. While a specific date has not yet been confirmed, Kyiv announced that officials are prepared to begin today while pro-Russia militants responded that they will not be ready until Friday. The West and Kyiv are likely to agree to resuming talks on Friday.

### **November inflation worse than expected**

According to the latest State office reports on monthly price inflation, headline and core CPI added 1.9 and 2.3 percent to the previous month translating to 21.8 and 19.6 year-on-year percentage change, accelerating from October. Producer price inflation was up 4.2%, implying 32.8% YoY in November, up 7 percentage points from October. These inflation numbers are proof of why depositors ran on the banks and the currency.

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# Bonds: News & Comments

## Liquidity down significantly

Banking sector liquidity fell UAH3.09bn yesterday to UAH44.59bn, this month's low, as banks' correspondent accounts with the NBU declined UAH2.93bn to UAH25.94bn and total CDs outstanding were down UAH0.69bn to UAH13.88bn. Total debt repayments scheduled for the next 30 days rose UAH0.53bn to UAH4.77bn.

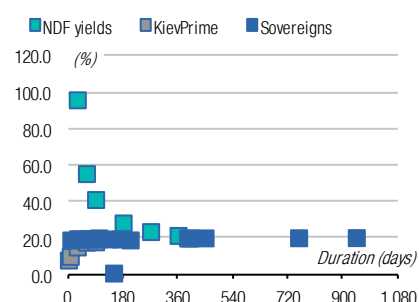
KyivPrime interest rates slightly diverged: the KyivPrime ON interest rate slid 15bp to 13.25% while the KyivPrime 1M interest rate remained steady at 18.00%.

**Investment implications: Although the NBU issued UAH2.62bn of additional loans and redeemed UAH0.69bn in CDs, banks' correspondent accounts fell UAH2.93bn, causing liquidity to decline about UAH6.0bn, similar to the December prepayment for Russian gas supplies paid by Naftogas (US\$378m at the official exchange rate equates to UAH5.8bn).**

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## Yield curve of the local bond market

(as of market close on 8 Dec 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

## Bond market indicators (as of 8 Dec 2014)

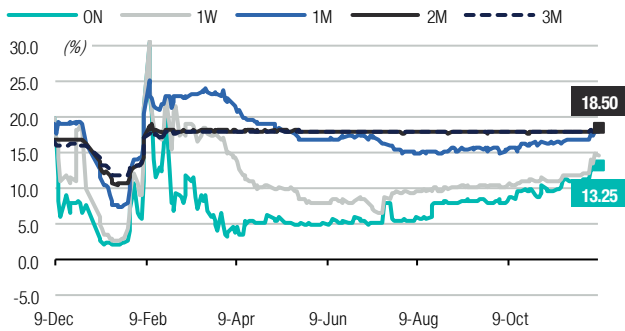
	Last	Daily	Weekly	MoM	YTD
		chg (%)	chg (%)	chg (%)	chg (%)
<b>MONEY MARKET KIEV PRIME RATES (%)</b>					
O/n	13.25	-15bp	+185bp	+362bp	+545bp
1wk	14.75	-5bp	+255bp	+375bp	+495bp
1m	18.00	+0bp	+100bp	+175bp	+175bp
2m	18.50	+30bp	+50bp	+50bp	+210bp
3m	18.50	+30bp	+50bp	+50bp	+250bp
<b>LIQUIDITY WIDE MEASUREMENT (UAHm)</b>					
CB acc's <sup>1</sup>	25,936	-10.15	+3.15	-22.16	-20.69
CDs <sup>2</sup>	0	+0.00	+0.00	+0.00	+0.00
Sovgns <sup>3</sup>	4,472	+10.97	-10.89	+6.28	+199.1
<b>Total</b>	<b>30,408</b>	<b>-7.57</b>	<b>+0.81</b>	<b>-18.97</b>	<b>-11.08</b>
<b>HOLDERS OF UAH SOVEREIGN BONDS (UAHm)</b>					
C.bank	287,472	+0.76	+1.20	+3.18	+98.46
Banks	93,915	+12.41	+11.67	+9.06	+17.15
Resid's <sup>4</sup>	24,411	+12.53	+13.43	+59.16	+96.91
Non-res <sup>5</sup>	21,448	+0.49	+1.97	+6.79	+83.34
<b>Total</b>	<b>427,246</b>	<b>+3.73</b>	<b>+4.03</b>	<b>+6.77</b>	<b>+71.51</b>
<b>NDF IMPLIED YIELDS (%)</b>					
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
<b>LOCAL CURRENCY UAH SOVEREIGN BOND YIELDS (%)</b>					
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 <sup>6</sup>	N/A	N/A	N/A	N/A	N/A
<b>EUROBONDS USD SOVEREIGN BOND YIELDS (%)</b>					
CDS 5yr	1,797	+0bp	+150bp	+503bp	+980bp
Jun '16	27.70	-1bp	+503bp	+12bp	+19bp
Jul '17	23.43	-4bp	+264bp	+790bp	+14bp
Sep '20	14.84	-16bp	+48bp	+328bp	+565bp
Sep '21	14.72	-11bp	+37bp	+314bp	+550bp
Sep '22	13.93	-41bp	+38bp	+270bp	+458bp
Feb '23	13.37	-7bp	+8bp	+220bp	+433bp

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.

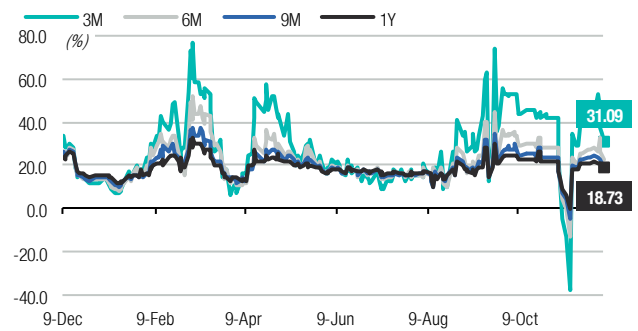
Chart page: Local bond market & Eurobond markets

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



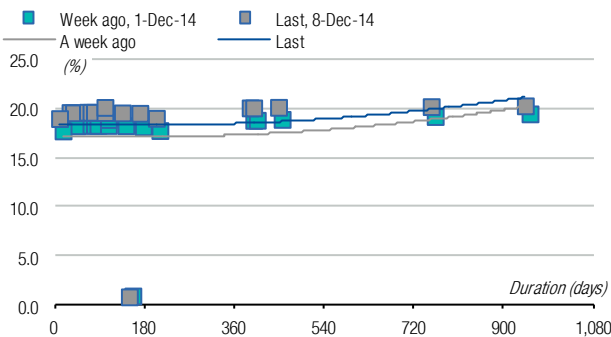
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



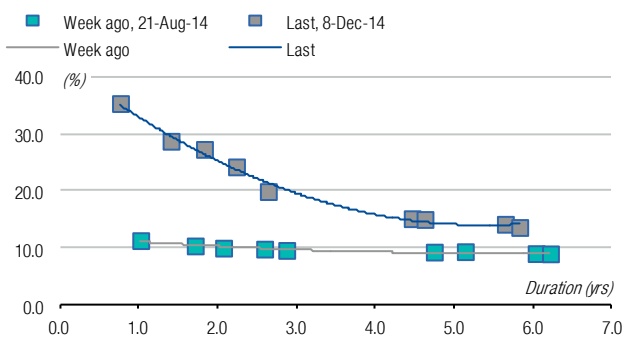
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 8 Dec 2014



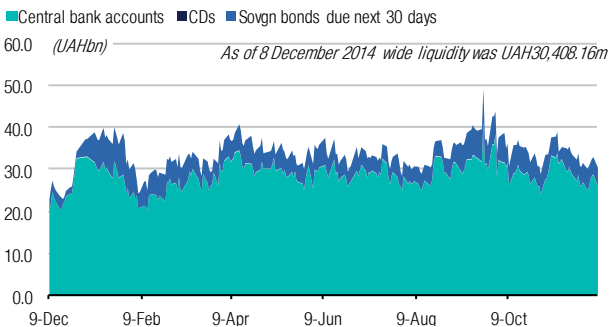
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 8 Dec 2014



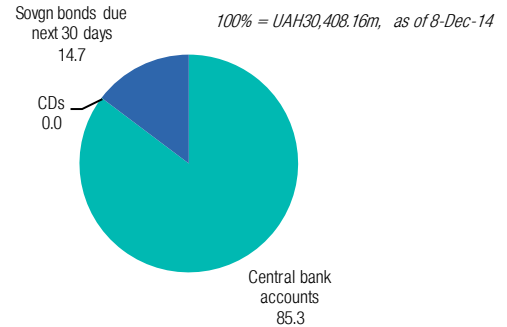
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



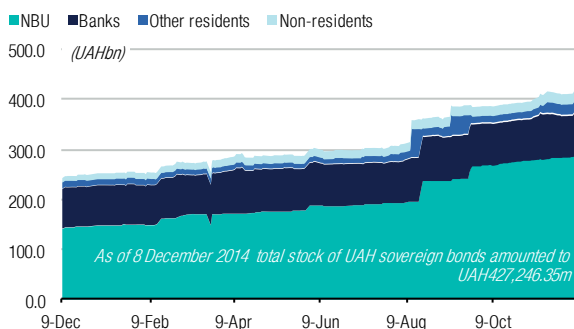
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 8 Dec 2014



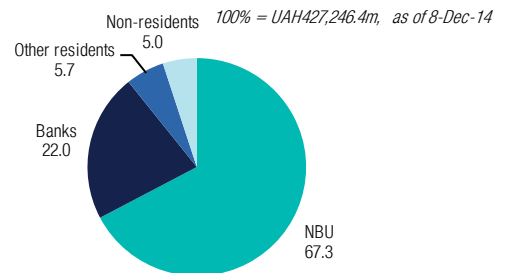
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 8 Dec 2014



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

Table 1. Ukrainian stocks (closing prices as of 8-Dec-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)	2014	2015E	2016E	2014	2015E	2016E	2014	2015E	2016E	P/B (x)	Debt/ Assets (%)
<b>ENERGY</b>																											
Cadogan Petrol...	CAD LN	London	11.13 GBp	-2.2	+3.5	+7.2	-11.0	0.17	40.3	-7.3	40.2	16.2	20.1	18.9	0.16	624	Neg.	N/A	N/A	1.1	N/A	N/A	Neg.	N/A	N/A	0.3	0.0
Centrenerg	CEEN UK	Kiev, UX	7.41 UAH	-1.3	-2.0	+55.3	+50.2	0.47	175.4	220.9	21.7	38.1	99.1	44.1	0.14	699	5.6	4.9	7.4	0.3	3.9	4.0	0.5	0.3	0.3	1.1	16.3
Coal Energy	CLE PW	Warsaw	0.69 PLN	+1.5	-4.2	-34.3	-56.1	0.20	9.2	135.1	25.0	2.3	1.4	24.7	0.80	125	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	30.31 UAH	-3.5	-8.0	+9.9	+11.1	1.94	45.9	96.9	14.2	6.5	1.9	7.0	0.07	1,351	1.3	1.3	1.4	0.1	1.9	1.5	0.3	0.2	0.3	1.1	25.1
JXK Oil & Gas	JXK LN	London	11.00 GBp	-13.7	-71.2	-84.6	-84.6	0.17	29.6	34.7	47.2	14.0	170.4	18.3	0.53	190	4.6	4.9	0.9	0.5	0.7	0.5	0.2	0.2	0.2	0.1	5.5
Regal Petroleum	RPT LN	London	4.50 GBp	-8.9	-28.0	-65.4	-70.0	0.07	22.6	-7.5	80.9	18.3	4.9	3.0	0.01	6,877	Neg.	11.3	N/A	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	152.70 UAH	-0.8	-0.7	+68.9	+81.6	9.79	125.2	137.5	5.0	6.3	1.7	1.9	0.01	8,809	3.4	N/A	N/A	0.9	N/A	N/A	0.2	N/A	N/A	1.3	0.0
<b>METALLURGY</b>																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.02 UAH	-3.4	-24.4	-56.2	-57.7	0.00	28.1	1,864.3	3.9	1.1	0.3	1.8	0.16	612	Neg.	Neg.	N/A	Neg.	Neg.	N/A	2.0	1.2	N/A	N/A	85.7
Avdiivsky Cok...	AVDK UK	Kiev, UX	1.89 UAH	+1.8	-20.6	-36.2	-38.8	0.12	23.6	20.5	4.0	0.9	0.2	3.5	0.27	367	Neg.	184.1	0.5	0.1	0.8	N/A	0.0	0.0	0.0	0.1	0.1
Azovstal	AZST UK	Kiev, UX	0.70 UAH	+0.1	-8.5	+4.3	+1.2	0.04	188.4	N/A	4.1	7.7	3.5	10.8	0.09	1,169	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	64.35 GBp	-0.5	-19.4	-65.4	-62.5	1.01	593.2	795.6	22.4	132.9	786.3	891.9	0.69	145	2.3	2.3	4.9	1.6	1.7	2.6	0.5	0.6	0.6	0.5	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.30 UAH	-6.6	-30.3	-43.6	-45.6	0.02	5.2	5.9	9.0	0.5	0.9	1.4	0.13	743	Neg.	0.6	0.3	0.1	0.4	N/A	0.0	0.0	0.0	0.1	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	21.47 UAH	-2.4	-13.4	-32.9	-35.1	1.38	14.5	6.1	9.4	1.4	0.6	4.1	0.32	308	Neg.	Neg.	N/A	1.1	0.2	N/A	0.0	0.0	N/A	1.0	0.0
<b>FOOD AND AGRIBUSINESS</b>																											
AgroGeneration	ALAGR FP	EN Paris	0.50 EUR	+11.1	+6.4	-59.7	-60.3	0.62	57.0	110.2	34.0	19.4	74.4	14.0	0.08	1,183	Neg.	N/A	N/A	Neg.	N/A	N/A	1.7	N/A	N/A	1.1	35.9
Agroliga	AGL PW	Warsaw	11.49 PLN	-3.8	-5.0	-55.7	-55.9	3.41	5.2	6.1	16.7	0.9	7.6	3.6	0.46	215	1.3	N/A	N/A	1.8	N/A	N/A	0.3	N/A	N/A	0.5	5.7
Agroton	AGT PW	Warsaw	1.31 PLN	+0.8	-13.8	-32.8	-32.8	0.39	8.4	53.7	26.2	2.2	13.9	36.0	1.98	50	Neg.	1.2	1.1	20.1	17.9	N/A	0.7	0.6	0.7	0.1	28.4
Astarta Holdin...	AST PW	Warsaw	18.54 PLN	+1.0	-17.2	-72.3	-71.3	5.49	137.4	377.6	31.0	42.6	18.7	101.9	0.41	244	4.3	Neg.	2.5	5.0	3.2	3.5	0.8	0.8	0.8	0.4	38.2
Avangard	AVGR LI	London Intl	3.89 USD	-13.6	-37.3	-66.9	-67.0	3.89	248.5	459.7	21.7	53.9	9.7	35.4	0.03	3,070	1.1	2.2	2.0	1.5	2.6	2.6	0.7	0.8	0.8	0.3	17.8
IMC	IMC PW	Warsaw	6.00 PLN	-4.8	-15.4	-50.6	-52.8	1.78	55.7	194.9	23.9	13.3	26.3	12.0	0.05	1,914	2.1	Neg.	2.1	3.6	3.7	3.9	1.7	1.2	1.1	0.4	38.7
Kernel Holding...	KER PW	Warsaw	30.01 PLN	-1.0	+26.6	-21.2	-24.9	8.89	708.7	1,353.1	58.8	416.6	363.6	1,000.9	0.32	317	Neg.	4.5	4.4	6.1	3.9	4.2	0.6	0.5	0.5	0.7	39.1
KSG Agro	KSG PW	Warsaw	1.19 PLN	-3.3	-0.8	-89.0	-88.1	0.35	5.3	116.4	34.4	1.8	6.3	122.8	2.34	43	Neg.	0.4	0.3	13.4	N/A	N/A	1.6	1.2	1.0	0.3	44.5
MHP	MHPC LI	London Intl	10.55 USD	+2.4	-3.7	-38.1	-33.3	10.55	1,114.8	2,245.2	22.3	248.8	54.4	423.2	0.07	1,445	7.2	19.7	4.0	5.7	4.6	4.5	1.5	1.6	1.5	2.2	47.0
Milkiland	MLK PW	Warsaw	2.05 PLN	-5.5	-21.2	-83.6	-82.9	0.61	19.0	143.0	20.0	3.8	7.4	8.6	0.35	287	1.4	Neg.	47.7	4.3	4.8	4.4	0.3	0.4	0.4	0.1	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	0.91 EUR	+0.0	-39.1	-83.1	-83.4	1.13	119.8	847.6	20.0	24.0	0.0	0.8	0.00	34,758	1.4	1.4	0.5	5.1	3.1	2.8	1.7	2.0	2.0	0.3	45.3
Ovostar Union	OVO PW	Warsaw	72.00 PLN	+0.0	+0.0	-28.0	-9.1	21.34	128.0	137.7	25.0	32.0	149.4	28.0	0.06	1,730	4.2	6.7	5.8	3.7	5.0	4.5	1.5	1.8	1.4	0.9	8.5
<b>TRANSPORTATION</b>																											
KDM Shipping	KDM PW	Warsaw	6.00 PLN	-10.4	-14.3	-80.9	-80.8	1.78	16.5	0.0	10.9	1.8	0.2	0.2	0.01	14,858	2.4	N/A	N/A	Neg.	N/A	N/A	Neg.	N/A	N/A	0.2	5.6
<b>CONSTRUCTION</b>																											
TMM	TR61 GF	Xetra	0.14 EUR	+0.0	-11.9	-55.5	-52.5	0.17	9.0	136.1	13.1	1.2	1.2	0.1	0.02	5,287	Neg.	N/A	N/A	Neg.	N/A	N/A	4.0	N/A	N/A	0.1	45.5
<b>FINANCIAL SERVICES</b>																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.10 UAH	-1.4	-19.1	-12.2	-14.4	0.01	191.4	N/A	3.8	7.3	5.7	14.2	0.29	340	2.9	Neg.	15.6	N/A	N/A	N/A	N/A	N/A	N/A	0.5	22.4

Table 1. Ukrainian stocks (closing prices as of 8-Dec-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)	2014	2015E	2016E	2014	2015E	2016E	2014	2015E	2016E	P/B	Debt/(x) Assets		
Ukrsotsbank	USCB UK	Kiev, UX	0.14 UAH	-6.5	-5.3	-25.3	-17.2	0.01	162.8	N/A	4.5	7.3	0.5	0.9	0.02	5,060	Neg.	10.4	N/A	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

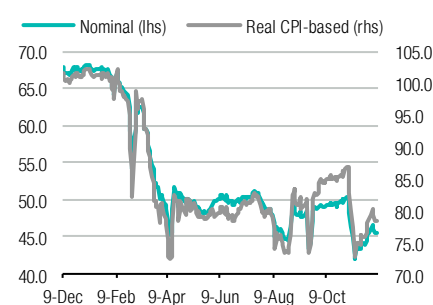
### Hryvnia down further

Following noteworthy developments over the past week, the hryvnia is expected to resume its decline. The ruble and euro declined as the Russian central bank spent a total of US\$2bn in interventions over the past week. After the US economy surpassed expectations with a better-than-expected monthly jobs report, the dollar index was up 1.25% last week and down 0.33% this Monday. The hryvnia's complications arise from very high inflation that erodes the positive impact of the devaluation that occurred earlier this year.

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### ICU's UAH trade-weighted indices

(Last 12-month history to 9 Dec 2014)



Source: Investment Capital Ukraine LLC.

### FX market indicators (as of 8 Dec 2014)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
<b>USD/UAH MARKET (HRYVNIA per US DOLLAR)</b>					
Spot mkt	15.5750	+0.74	+3.10	+7.27	+89.02
NBU avg	15.5257	+0.71	+3.12	+7.29	+90.48
Ttl vlm <sup>1</sup>	244.12	-63.68	+25.78	+1.31	-91.29
\$ volume <sup>2</sup>	186.11	-67.60	+30.47	+9.36	-91.58
NDF 3M	16.6500	+0.00	-2.49	+16.03	+96.23
NDF 6M	17.2000	+0.00	+0.58	+16.22	+95.90
NDF 1Y	18.2500	+0.00	+0.27	+15.87	+93.74
<b>TRADE-WEIGHTED INDICES (TWIs, points)</b>					
UAH nom'l	45.341	-0.24	-1.20	-2.04	-32.87
UAH real CPI	78.095	-0.24	-1.20	-2.04	-22.73
UAH real PPI	111.490	-0.24	-1.20	-2.04	-19.67
USD nom'l	89.041	-0.33	+1.25	+1.60	+11.25
<b>FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs</b>					
USD/RUB	53.7964	+1.71	+4.16	+15.14	+63.67
EUR/USD	1.2317	+0.28	-1.23	-1.11	-10.38
USD/CNY	6.1715	+0.31	+0.34	+0.80	+1.94
USD/PLN	3.3785	-0.20	+0.88	-0.47	+11.76
USD/TRY	2.2685	+0.35	+2.45	+0.46	+5.60
USD/BYR	10,845.00	-0.23	-0.32	+0.93	+13.68
USD/KZT	182.0300	+0.25	+0.25	+0.60	+17.99
<b>OTHER MAJOR CURRENCIES</b>					
USD/JPY	120.6900	-0.63	+1.93	+5.31	+14.60
GBP/USD	1.5653	+0.47	-0.49	-1.36	-5.46
USD/CHF	0.9761	-0.28	+1.18	+1.02	+9.32
AUD/USD	0.8294	-0.26	-2.32	-3.97	-6.99
USD/CAD	1.1480	+0.39	+1.33	+1.33	+8.07
USD/BRL	2.6004	+0.46	+1.55	+1.63	+10.09
USD/KRW	1,117.57	+0.32	+0.36	+2.21	+6.46
<b>COMMODITIES</b>					
Gold(\$/oz)	1,203.52	+0.92	-0.71	+2.17	-0.18
WTI crude <sup>3</sup>	63.05	-4.24	-8.62	-19.83	-35.94
Brent crd <sup>3</sup>	65.67	-3.74	-9.07	-20.28	-40.74
Urals crd <sup>3</sup>	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB <sup>4</sup>	248.13	-1.66	-4.12	-8.32	-11.44

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>).

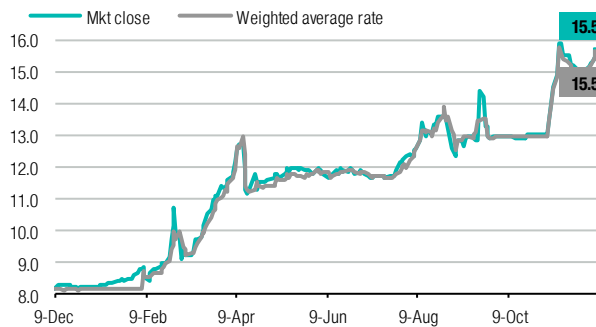
Section on FX market is continued on next page.

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.

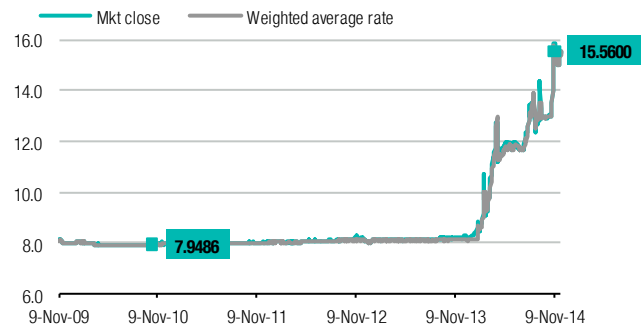
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

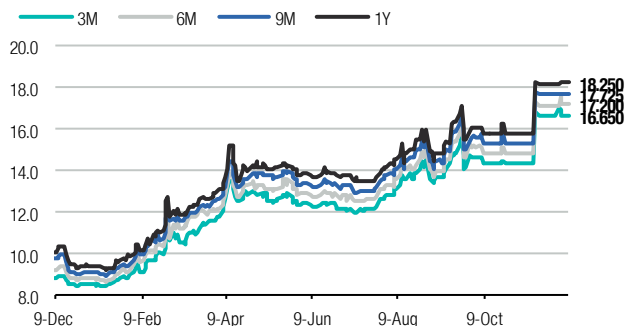


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

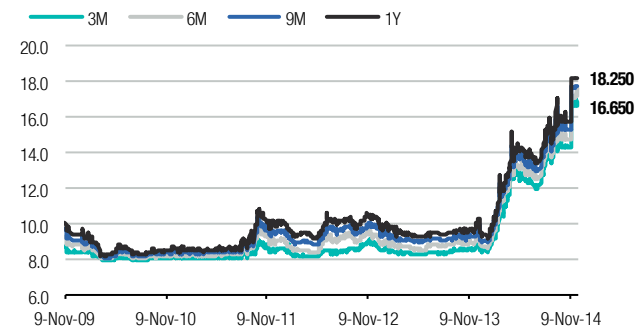


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

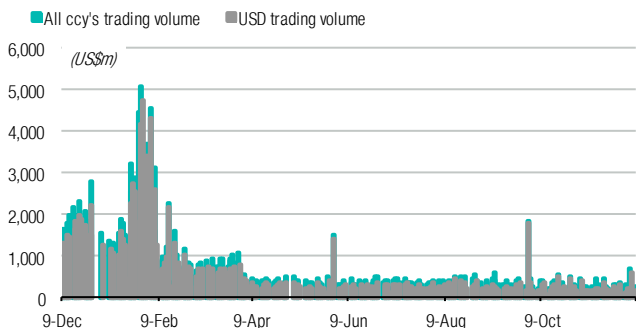


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

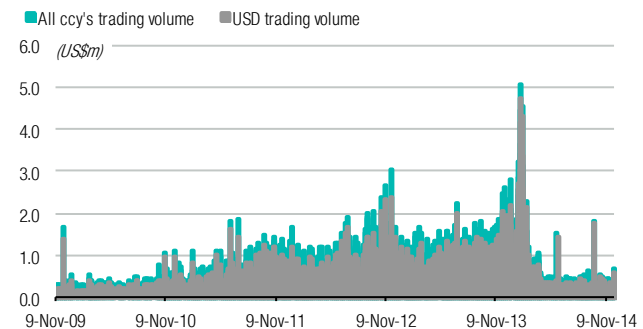


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

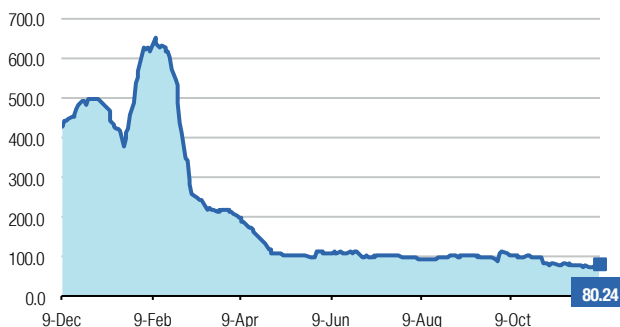


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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.

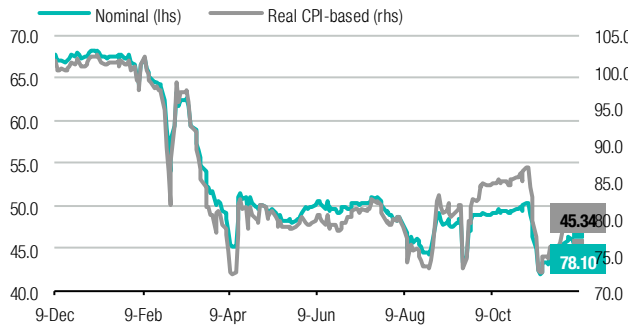




## Chart page #2: ICU's UAH trade-weighted indices

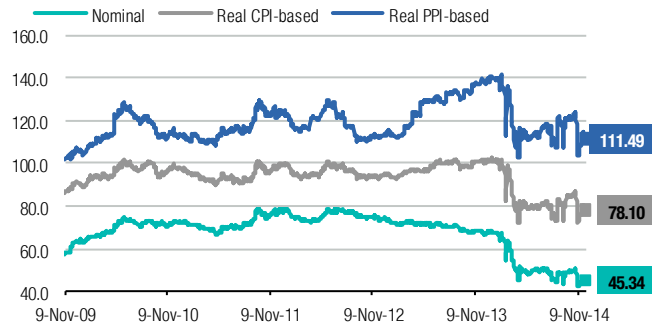
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



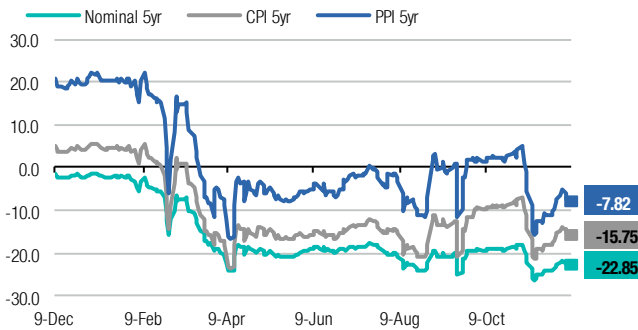
Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

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

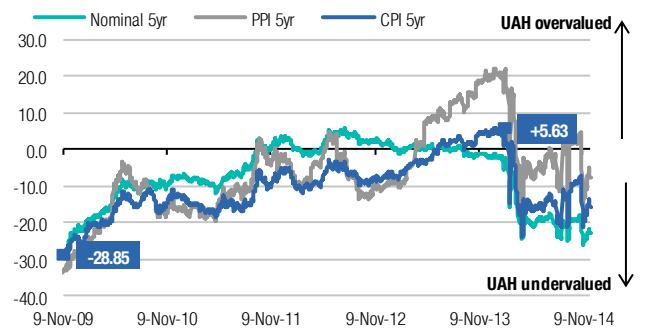


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

**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)**

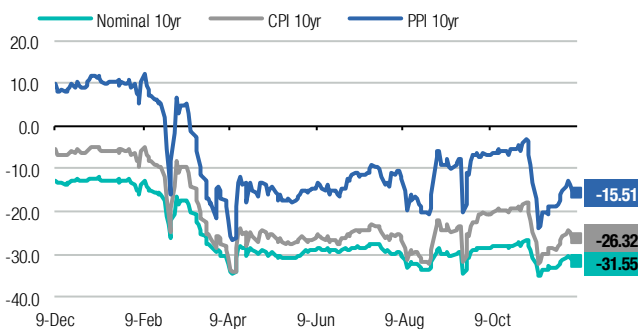


Note: The boxes indicate the last values of the depicted indicators.  
Source: Investment Capital Ukraine LLC.

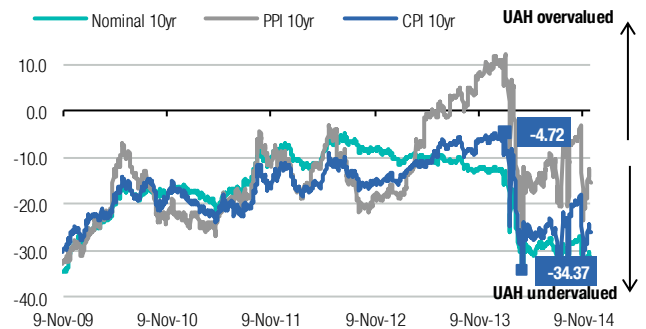


Note: the boxes indicate the high and low values of CPI-based TWI.  
Source: Investment Capital Ukraine LLC.

**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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**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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