



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

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Daily Insight

Key sectors of the economy improve in October

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THURSDAY, 19 NOVEMBER 2015

UX Index (3 months to 19 Nov 2015)



Source: UX.

Key market indicators (as of 18 Nov 2015)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	23.8000	+1.93	+50.44
USD/UAH (1Y NDF)	28.0500	+0.54	+52.03
EUR/USD	1.0660	+0.17	-11.89
USD/RUB	64.7638	-0.59	+6.63
KievPRIME O/N (%)	19.00	-10bp	+10bp
KievPRIME 1M (%)	22.25	-5bp	+235bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	N/A	+0bp	-5,312bp
Ukraine 17, Eurobond (%)	27.16	+5bp	-60bp
Ukraine 22, Eurobond (%)	13.05	+1bp	-320bp
Ukraine 23, Eurobond (%)	11.65	+1bp	-391bp
Ukraine 5Y CDS	0bp	+0bp	-2,199bp
EQUITIES			
Stock market indices			
UX (Ukraine)	670.72	-6.78	-35.09
MSCI World	406.98	+0.82	-2.43
MSCI EM	822.84	-0.15	-13.96
RTS (Russia)	876.56	+1.64	+11.36
WIG-20 (Poland)	2,023.98	+0.81	-12.61
S&P 500 (USA)	2,083.58	+1.62	+1.20

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

Key sectors of the economy improve in October

The monthly statistical reports on key sectors' performance for October published over the past week, with seasonal adjustments, yielded 0.8% MoM and 1.0% QoQ increases of the composite index. For further details, please refer to the table and charts below. The current trends from last month indicate another on-quarter GDP increase of up to 1% in 4Q15, improving full-year real GDP from contracting 13.1% to 11.0%.

Table 1. Key sectors of Ukraine's economy in October

	Agriculture output	Retail sales	Transport (cargo)	Transport (passenger)	Industrial production	Construction	Composite index (SA'd)
MoM	-0.6%	5.1%	1.4%	1.1%	-1.2%	0.9%	0.8%
QoQ	3.8%	0.3%	2.5%	1.5%	-0.8%	-1.8%	1.0%
YoY	-4.5%	-22.5%	10.0%	-8.7%	-7.6%	-20.5%	-9.9%

Sources: State Statistics Service of Ukraine, ICU.

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Bonds: News & Comments

Liquidity down slightly

Banking sector liquidity slid UAH0.50bn to UAH92.69bn yesterday as banks' correspondent accounts with the NBU fell UAH1.09bn to UAH27.13bn while total CDs outstanding rose UAH0.59bn to UAH65.55bn.

Investment implications: Liquidity remained high with a slight decline, most likely due to outflows via the FX market and the NBU auction that sold US dollars. Today, liquidity could move down slightly, but should remain above UAH90bn.

New Eurobond spreads tightening

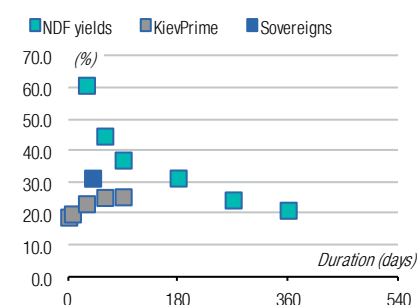
Spreads of new Ukrainian Eurobonds that began trading a few days ago tightened significantly through yesterday to 586-646 from 664-740 seen this past Monday. This forced the yield curve to move to be flat at 8.07-8.17. Prices rose to about 96.87-98.97.

Investment implications: Spreads tightened on recent positive news of Russia's willingness to negotiate the US\$3bn debt restructuring, of Soros' investments in Ukraine, and of the European association agreement taking effect 1 January 2016. At the same time, this tightening could be overly optimistic, particularly as spreads are very close to other B- countries while Ukrainian risks remain high due to the unresolved problems in Eastern Ukraine, the slow implementation of reforms, and uncertainty over the next IMF decision on the third tranche of financing.

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Yield curve of the local bond market

(as of market close on 18 Nov 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 18 Nov 2015)

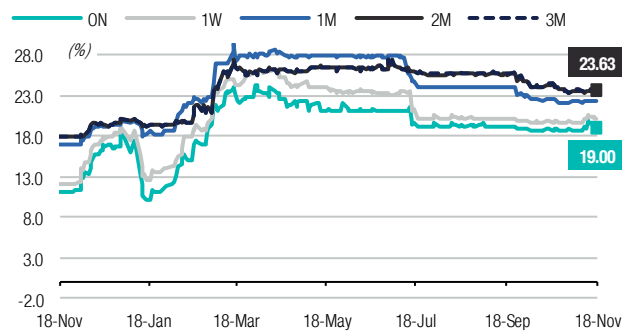
	Last	Daily chg (%)	Weekly chg (%)	MoM chg (%)	YTD chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
0/n	19.00	-10bp	+10bp	+12bp	+10bp
1wk	20.00	-20bp	+0bp	+12bp	+100bp
1m	22.25	-5bp	+0bp	-38bp	+235bp
2m	23.38	-12bp	-2bp	-87bp	+338bp
3m	23.63	-7bp	+3bp	-87bp	+363bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's ¹	27,132	-3.85	+10.21	+3.50	-18.41
CDs ²	65,554	+0.91	+6.34	+12.97	+315.3
Sovgns ³	8,141	-27.67	+25.66	+54.38	+79.65
Total	100,827	-3.46	+8.72	+12.64	+88.22
HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	374,299	+0.00	+0.01	+1.44	+17.66
Banks	84,546	+1.18	+2.18	+4.29	-9.51
Resid's ⁴	21,180	+0.17	+0.54	+0.96	-13.73
Non-res ⁵	22,637	+2.08	+0.73	+5.03	+5.08
Total	502,662	+0.30	+0.42	+2.05	+9.84
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	0	+0bp	+0bp	+0bp	-22ppt
Jun '16	50.91	+8bp	-890bp	-159bp	+14bp
Jul '17	27.16	+5bp	-24bp	+102bp	-60bp
Sep '20	13.56	-3bp	+10bp	+34bp	-529bp
Sep '21	13.78	-7bp	-46bp	-22bp	-475bp
Sep '22	13.05	+1bp	-5bp	+13bp	-320bp
Feb '23	11.65	+1bp	+4bp	+19bp	-391bp

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.

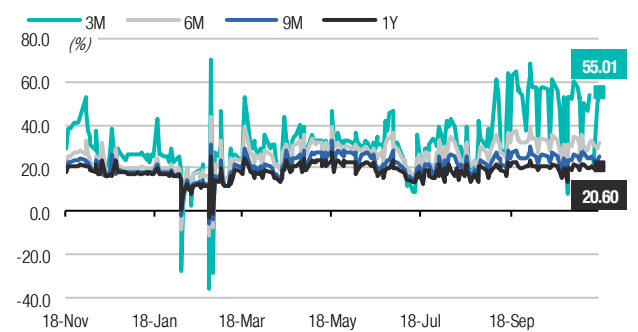
Chart page: Local bond market & Eurobond markets

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



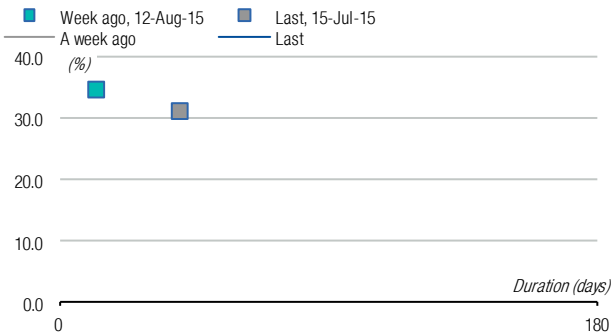
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



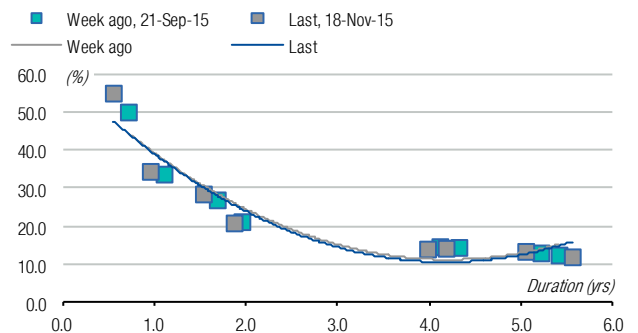
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 18 Nov 2015



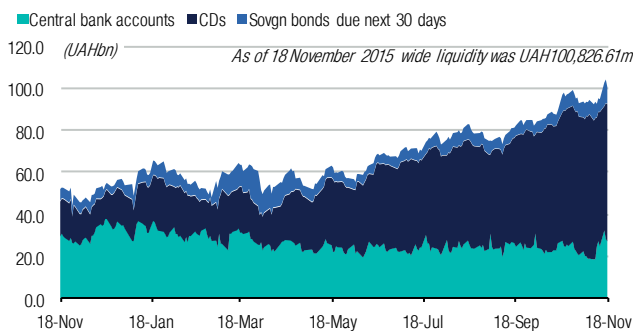
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 18 Nov 2015



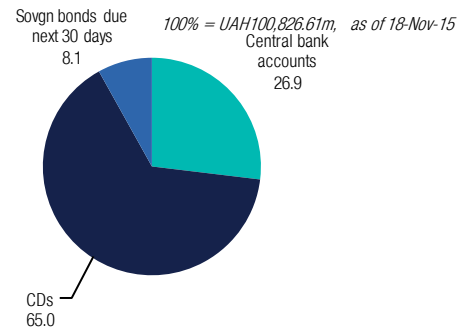
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



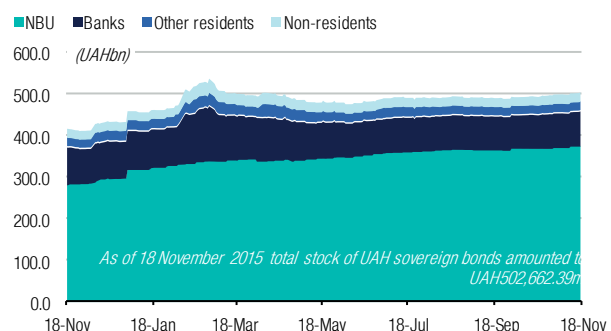
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 18 Nov 2015



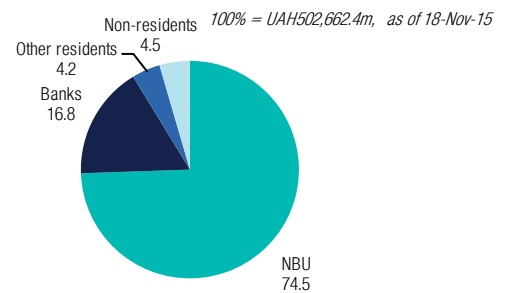
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 18 Nov 2015



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

Table 2. Ukrainian stocks (closing prices as of 18-Nov-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	+0.0	-13.8	-6.3	-11.8	0.14	33.1	-16.1	40.2	13.3	0.1	9.1	0.03	3,901	Neg.	N/A	N/A	2.3	N/A	N/A	Neg.	N/A	N/A	0.4	15.3
Centrenerg	CEEN UK	Kiev, UX	4.30 UAH	-11.8	-18.5	-43.0	-42.8	0.18	66.4	54.8	21.7	14.4	37.4	9.1	0.07	1,349	22.5	5.0	4.2	0.2	1.7	1.6	0.2	0.1	0.1	0.7	4.2
Donbasenergo	DOEN UK	Kiev, UX	16.20 UAH	-10.0	-6.6	-50.9	-46.7	0.68	16.0	26.3	14.2	2.3	5.9	2.2	0.06	1,675	3.8	Neg.	N/A	0.0	N/A	N/A	0.1	0.2	N/A	0.3	13.6
JKX Oil & Gas	JKX LN	London	28.75 GBp	-0.9	+6.5	+139.6	-0.9	0.44	75.4	86.1	47.2	35.6	84.4	87.4	0.07	1,443	Neg.	Neg.	Neg.	Neg.	2.2	3.4	0.6	0.7	1.2	0.3	9.9
Regal Petroleum	RPT LN	London	3.75 GBp	-3.2	-5.7	+20.0	-34.8	0.06	18.4	-15.0	80.9	14.9	0.5	1.4	0.01	19,388	3.2	N/A	N/A	Neg.	N/A	N/A	Neg.	Neg.	N/A	0.3	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	95.00 UAH	+23.4	-20.8	-35.9	-35.8	3.97	50.8	83.3	5.0	2.5	1.7	0.5	0.05	2,158	Neg.	N/A	N/A	0.1	N/A	N/A	0.2	N/A	N/A	0.6	11.6
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	-11.1	-13.3	-28.3	-46.3	0.00	11.2	1,727.8	3.9	0.4	0.3	0.2	0.07	1,372	Neg.	Neg.	N/A	0.6	Neg.	N/A	2.8	6.8	N/A	N/A	145.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.02 UAH	-9.7	-8.0	-41.0	-49.9	0.04	8.3	7.4	4.0	0.3	7.1	0.9	0.20	503	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	0.37 UAH	-5.1	-47.1	-50.3	-48.2	0.02	65.0	6.9	4.1	2.7	6.4	3.2	0.39	256	1.7	1.3	N/A	0.0	N/A	N/A	0.0	0.0	N/A	0.1	0.0
Ferrexpo PLC	FXPO LN	London	32.25 GBp	-3.0	-14.0	-34.1	-54.2	0.49	290.0	946.6	22.4	65.0	100.7	410.8	0.54	184	1.6	2.4	5.9	3.0	3.6	4.7	0.7	0.9	1.0	0.6	61.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.28 UAH	+0.0	+122.4	-0.7	-16.0	0.01	3.2	3.8	9.0	0.3	0.0	1.6	0.25	393	Neg.	Neg.	N/A	Neg.	N/A	N/A	0.0	0.0	N/A	0.1	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	15.70 UAH	-1.9	-1.9	-25.1	-16.0	0.66	6.9	-7.5	9.4	0.6	1.5	1.3	0.04	2,257	Neg.	Neg.	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.2	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.44 EUR	+2.3	+7.3	+2.3	-12.0	0.47	46.3	137.5	34.0	15.7	23.6	58.8	0.59	170	Neg.	Neg.	2.9	Neg.	7.0	4.7	2.0	2.2	1.7	N/A	35.9
Agroliga	AGL PW	Warsaw	13.30 PLN	-3.3	-15.6	+47.8	+28.0	3.34	5.1	5.9	16.7	0.9	1.9	1.6	0.26	383	1.5	N/A	N/A	1.7	N/A	N/A	0.3	N/A	N/A	0.5	5.7
Agroton	AGT PW	Warsaw	1.06 PLN	-4.5	-20.9	-13.8	-25.9	0.27	5.8	32.5	26.2	1.5	4.2	12.3	0.74	135	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	31.98 PLN	-2.4	+4.3	+59.9	+68.1	8.04	201.0	418.0	31.0	62.4	2.1	56.0	0.07	1,496	Neg.	13.5	3.8	3.5	3.6	3.9	1.1	1.1	1.1	0.9	49.6
Avangard	AVGR LI	London Intl	1.34 USD	-4.6	+28.4	-34.9	-72.8	1.34	85.3	385.5	21.7	18.5	19.7	54.9	0.04	2,250	Neg.	Neg.	Neg.	3.0	10.1	4.8	0.9	1.4	1.2	0.3	33.1
IMC	IMC PW	Warsaw	6.75 PLN	+2.4	-0.7	+19.0	-0.7	1.70	53.1	158.6	23.9	12.7	7.7	3.7	0.02	4,155	Neg.	2.9	1.7	2.8	2.9	2.9	1.1	1.2	1.1	2.0	69.8
Kernel Holding...	KER PW	Warsaw	50.40 PLN	-0.2	-7.9	+77.1	+106.9	12.67	1,009.9	1,344.6	58.8	593.5	1,384.0	1,910.3	0.30	330	9.4	5.0	5.0	3.4	3.8	3.9	0.6	0.6	0.5	1.1	31.6
KSG Agro	KSG PW	Warsaw	1.04 PLN	-3.7	-14.8	-7.1	-18.8	0.26	3.9	74.0	34.4	1.4	1.6	10.4	0.72	139	Neg.	N/A	N/A	7.4	N/A	N/A	2.3	N/A	N/A	N/A	67.4
MHP	MHPC LI	London Intl	9.85 USD	+3.7	+2.6	+7.1	-11.3	9.85	1,040.8	2,266.6	22.3	232.3	263.3	356.1	0.09	1,175	Neg.	4.4	3.8	4.1	4.6	4.6	1.6	1.8	1.8	1.5	53.0
Milkiland	MLK PW	Warsaw	1.83 PLN	+7.0	+0.5	+23.6	-12.9	0.46	14.4	118.0	20.0	2.9	25.8	51.0	2.21	45	Neg.	Neg.	Neg.	8.6	6.6	6.8	0.4	0.5	0.5	0.1	42.5
Ovostar Union	OVO PW	Warsaw	88.31 PLN	+0.7	-0.9	+22.7	+25.3	22.21	133.2	141.7	25.0	33.3	0.5	15.2	0.01	12,495	5.3	6.2	6.5	4.8	5.9	5.3	1.8	1.9	1.4	1.6	9.4
CONSTRUCTION																											
TMM	TR61 GF	Frankfurt	0.01 EUR	-13.3	+8.3	-83.8	-92.1	0.01	0.7	93.6	13.1	0.1	0.0	0.0	0.04	2,319	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	-5.4	-11.4	-27.1	-33.7	0.00	87.7	N/A	3.8	3.4	10.6	5.0	0.14	716	N/A	4.9	4.9	N/A	N/A	N/A	N/A	N/A	N/A	0.5	N/A
Ukrsootsbank	USCB UK	Kiev, UX	0.09 UAH	+0.0	+4.4	-27.8	-37.3	0.00	97.0	N/A	4.5	4.3	0.6	0.7	0.00	22,970	Neg.	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.4	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

UAH feels more pressure

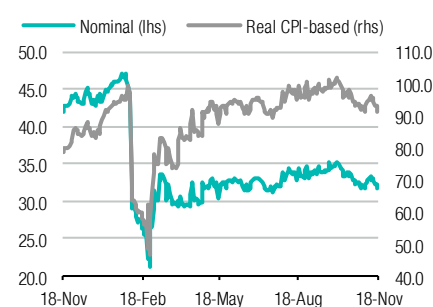
Yesterday, the NBU was forced to auction US dollars for the second day in row as demand for them was even stronger than on the previous day - at US\$25.6m up from US\$17.7m. Consequently, the central bank sold US\$13.1m to banks at an average FX rate of 23.8745, weaker than the previous day's rate.

Also, yesterday's minutes from the US Fed rate-setting committee reinforced market consensus that the US policy rate would be raised in December. So far, however, the DXY index's reaction to this news has been highly muted (it added just 0.02%).

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ICU's UAH trade-weighted indices

(Last 12-month history to 19 Nov 2015)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 18 Nov 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	23.8000	+1.93	+3.93	+11.87	+50.44
NBU avg	23.9136	+0.60	+5.08	+12.28	+51.65
Ttl vlm ¹	242.43	-0.40	+6.34	-40.75	-43.74
\$ volume ²	167.89	+12.60	+41.33	-45.03	-52.61
NDF 3M	26.6820	+0.56	+10.47	+8.91	+58.35
NDF 6M	27.1820	+0.55	+2.96	+8.73	+56.22
NDF 1Y	28.0500	+0.54	+3.31	+8.93	+52.03
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	31.619	-2.07	-3.67	-6.81	-28.89
UAH real CPI	91.269	-2.07	-3.67	-6.81	+5.46
UAH real PPI	109.762	-2.07	-3.67	-6.81	-6.80
USD nom'l	99.652	+0.02	+0.65	+5.41	+10.39
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	64.7638	-0.59	-1.01	+5.69	+6.63
EUR/USD	1.0660	+0.17	-0.77	-6.06	-11.89
USD/CNY	6.3847	+0.10	+0.28	+0.49	+2.89
USD/PLN	3.9835	-0.13	+1.53	+6.74	+12.41
USD/TRY	2.8626	-0.23	-0.42	-1.00	+22.60
USD/BYR	17,905.00	+0.20	+1.50	+3.88	+62.77
USD/KZT	307.4000	+0.00	+0.23	+11.07	+68.58
OTHER MAJOR CURRENCIES					
USD/JPY	123.6400	+0.15	+0.63	+3.52	+3.22
GBP/USD	1.5237	+0.16	+0.16	-1.30	-2.18
USD/CHF	1.0198	+0.50	+1.51	+6.93	+2.56
AUD/USD	0.7111	+0.00	+0.69	-2.11	-13.02
USD/CAD	1.3303	-0.14	+0.31	+3.01	+14.47
USD/BRL	3.7648	-1.29	+0.10	-4.05	+41.66
USD/KRW	1,172.22	+0.16	+1.50	+3.79	+7.45
COMMODITIES					
Gold(\$/oz)	1,070.70	+0.04	-1.44	-9.06	-9.63
WTI crude ³	40.75	+0.20	-5.08	-13.77	-23.50
Brent crd ³	42.10	+0.94	-6.34	-14.15	-24.50
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	183.60	-0.06	-2.52	-7.94	-20.16

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.

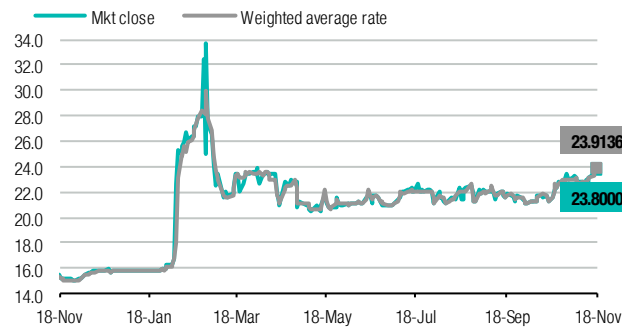
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

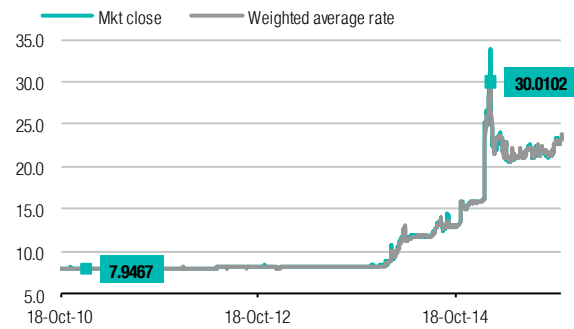
Section on FX market is continued on next page.

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)

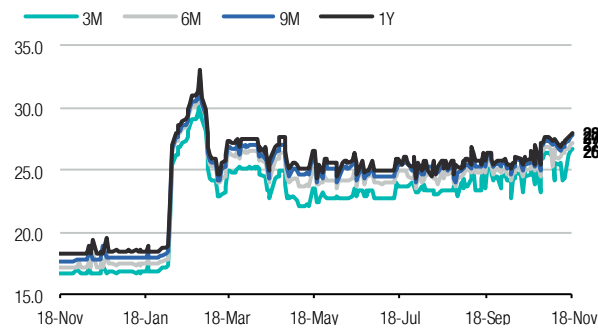


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

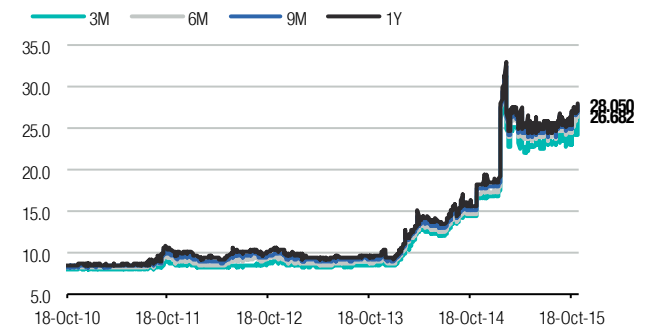


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

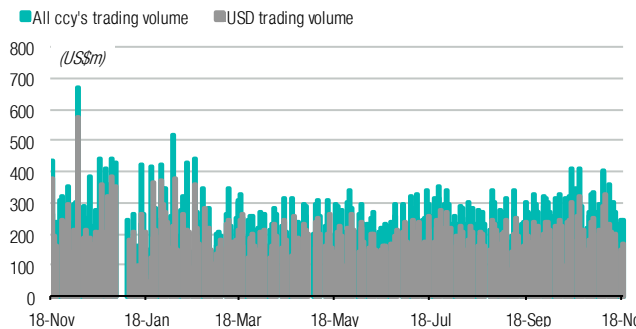


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

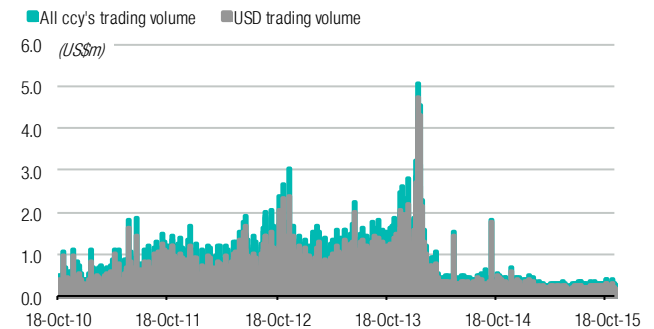


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

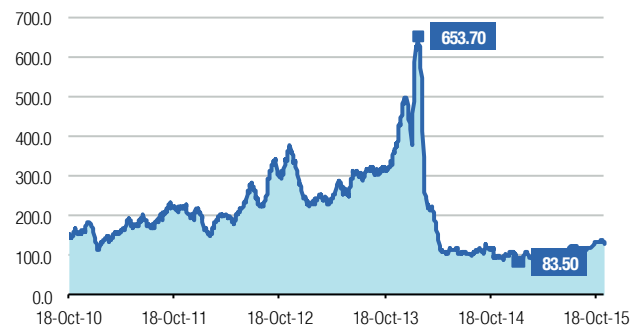


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

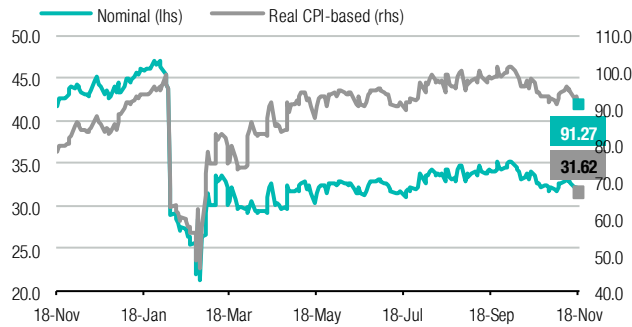


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

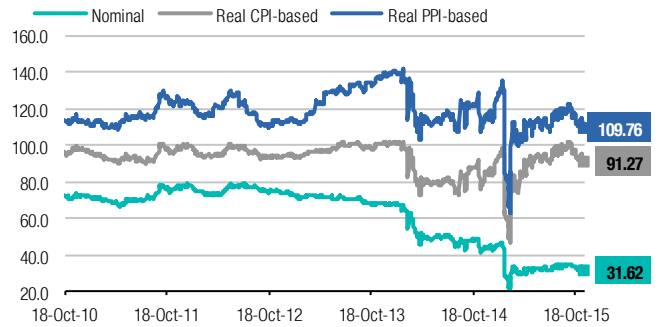
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



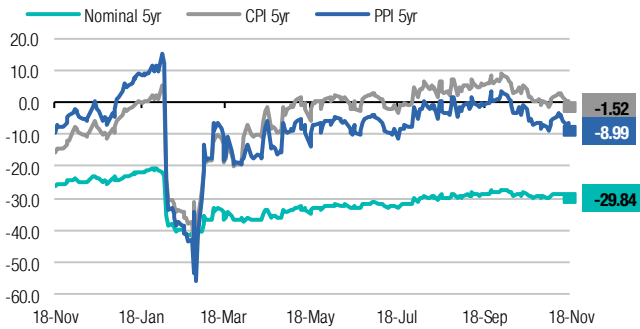
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

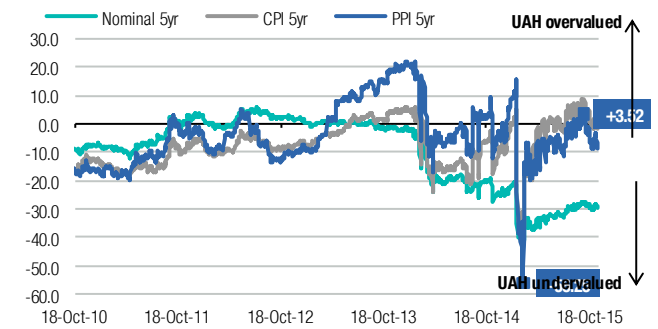


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

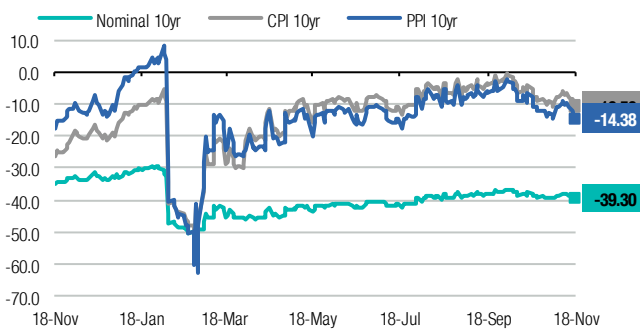


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

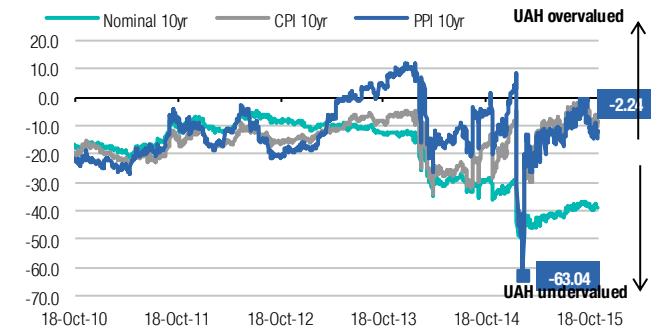


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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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