



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

Research team
**Alexander Valchyshen
Taras Kotovych**

Daily Insight

Liquidity up on reallocations

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THURSDAY, 18 SEPTEMBER 2014

UX Index (3 months to 18 Sep 2014)



Source: UX.

Key market indicators (as of 17 Sep 2014)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	12.8500	-0.35	+55.95
USD/UAH (1Y NDF)	16.3500	+0.62	+73.57
EUR/USD	1.2865	-0.73	-6.39
USD/RUB	38.3740	+0.26	+16.75
KievPRIME O/N (%)	8.25	+0bp	+45bp
KievPRIME 1M (%)	15.75	+25bp	-50bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	20.30	+323bp	+1,195bp
Ukraine 17, Eurobond (%)	14.67	+108bp	+511bp
Ukraine 22, Eurobond (%)	10.58	+27bp	+123bp
Ukraine 23, Eurobond (%)	10.50	+24bp	+145bp
Ukraine 5Y CDS	1,231bp	+71bp	+414bp
EQUITIES			
Stock market indices			
UX (Ukraine)	1,057.40	-2.72	+16.19
MSCI World	427.49	+0.23	+4.64
MSCI EM	1,062.39	+0.79	+5.95
RTS (Russia)	1,190.10	-0.99	-17.51
WIG-20 (Poland)	2,515.27	+0.67	+4.76
S&P 500 (USA)	2,001.57	+0.13	+8.29

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 up on reallocations

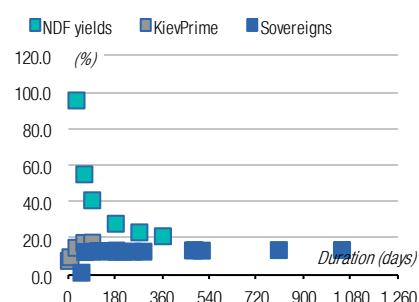
Banking sector liquidity continued to rise yesterday on the reallocation of funds. Banks' correspondent accounts with the NBU slid UAH0.13bn to UAH33.31bn, while total CDs outstanding rose UAH1.01bn to UAH14.39bn and total local currency debt repayments scheduled for the next 30 days remained steady at UAH6.97bn yesterday.

Investment implication: The NBU continued to absorb extra liquidity by significantly increasing total CDs outstanding.

Taras Kotovych, Kiev, +38044 2200120 ext.724

Yield curve of the local bond market

(as of market close on 17 Sep 2014)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 17 Sep 2014)

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

MONEY MARKET KIEV PRIME RATES (%)

O/n	8.25	+0bp	-13bp	+250bp	+45bp
1wk	10.31	+0bp	+0bp	+81bp	+51bp
1m	15.75	+25bp	+25bp	+62bp	-50bp
2m	18.00	+0bp	+0bp	+0bp	+160bp
3m	18.00	+0bp	+0bp	+0bp	+200bp

LIQUIDITY WIDE MEASUREMENT (UAHm)

CB acc's ¹	33,314	-0.38	+11.99	+21.60	+1.87
CDs ²	14,390	+7.56	+12.62	+11.52	+1,941.1
Sovgns ³	6,419	-8.04	+4.98	+72.45	+329.3
Total	54,122	+0.60	+11.28	+22.94	+55.07

HOLDERS OF UAH SOVEREIGN BONDS (UAHm)

C.bank	241,319	+0.25	+1.94	+23.87	+66.60
Banks	87,017	-0.34	-2.28	-1.57	+8.54
Resid's ⁴	38,139	+0.01	-10.45	-33.32	+207.7
Non-res ⁵	19,592	+0.51	-0.35	+9.34	+67.47
Total	386,067	+0.11	-0.50	+7.74	+54.98

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	-676bp
Aug '15 ⁶	N/A	+542bp	+542bp	+542bp	-81ppt

EUROBONDS USD SOVEREIGN BOND YIELDS (%)

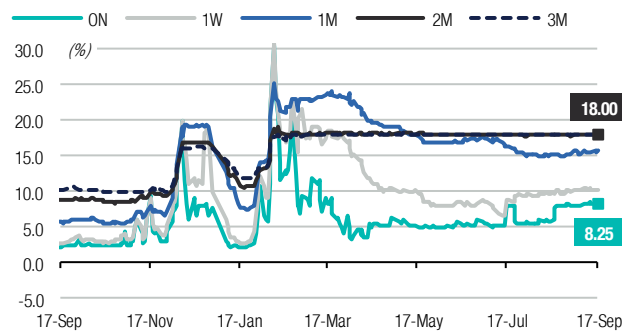
CDS 5yr	1,231	+71bp	+177bp	+265bp	+414bp
Jun '16	15.62	+133bp	+264bp	+577bp	+673bp
Jul '17	14.67	+108bp	+188bp	+488bp	+511bp
Sep '20	11.13	+31bp	+37bp	+159bp	+193bp
Sep '21	11.02	+16bp	+18bp	+145bp	+180bp
Sep '22	10.58	+27bp	-9bp	+141bp	+123bp
Feb '23	10.50	+24bp	-11bp	+140bp	+145bp

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.

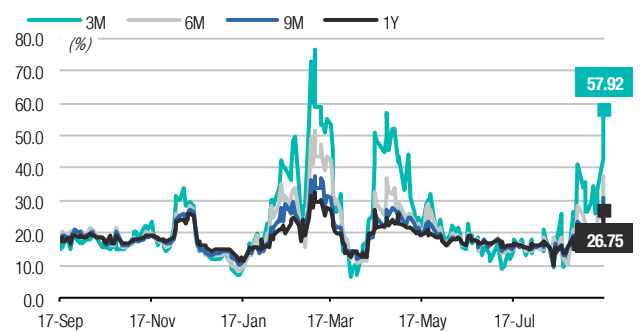
Chart page: Local bond market & Eurobond markets

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



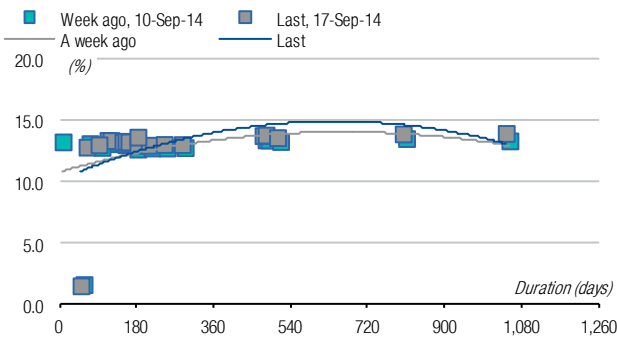
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



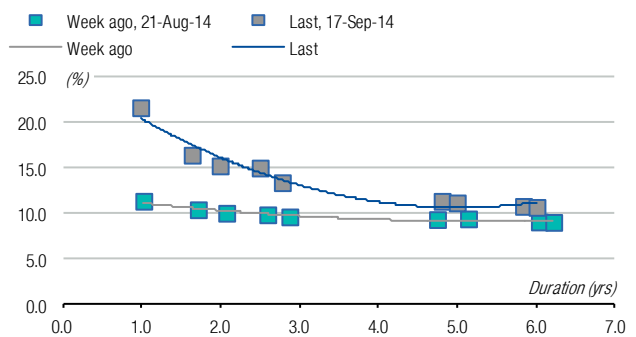
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 17 Sep 2014



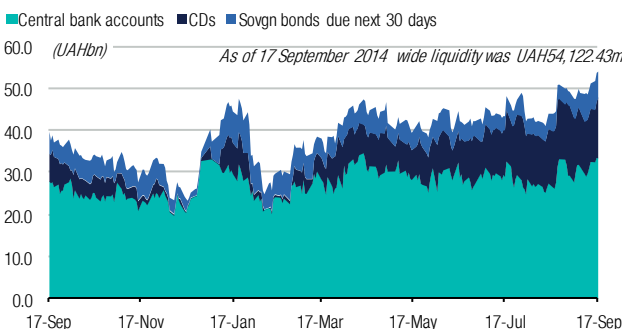
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 17 Sep 2014



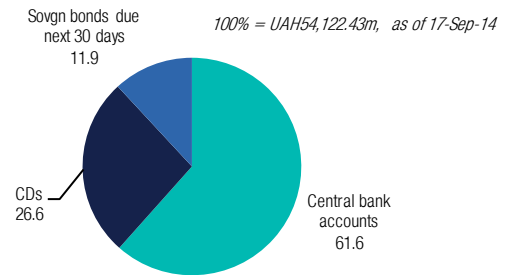
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



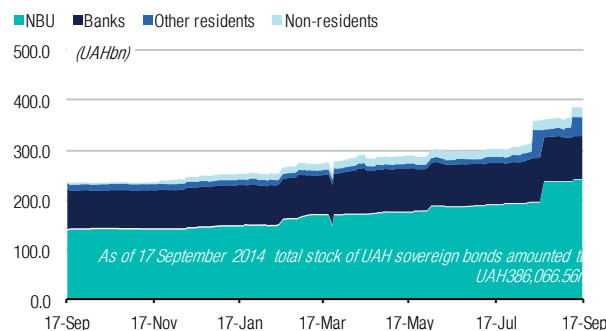
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 17 Sep 2014



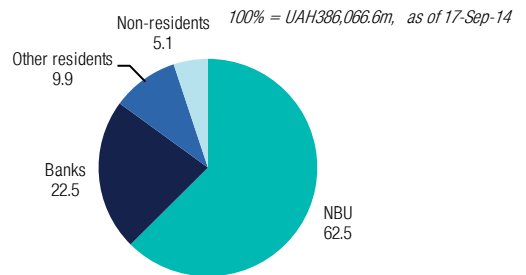
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 17 Sep 2014



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

Table 1. Ukrainian stocks (closing prices as of 17-Sep-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)	2013	2014E	2014E	2013	2014E	2014E	2013	2014E	2014E	P/B (x)	Debt/Assets (%)
ENERGY																											
Cadogan Petrol...	CAD LN	London	11.50 GBp	-2.1	-1.1	+10.8	-29.2	0.19	43.3	-19.8	40.2	17.4	0.0	28.7	0.23	441	Neg.	Neg.	Neg.	3.0	N/A	N/A	Neg.	Neg.	Neg.	0.2	0.0
Centrenerg	CEEN UK	Kiev, UX	7.20 UAH	+0.0	-10.1	+51.0	+41.9	0.56	205.3	254.3	21.7	44.6	135.8	290.6	0.13	784	5.5	4.9	7.2	0.5	3.8	3.8	0.4	0.3	0.3	1.1	12.2
Coal Energy	CLE PW	Warsaw	0.84 PLN	-14.3	-11.6	-20.0	-69.2	0.26	11.6	137.6	25.0	2.9	95.0	45.0	4.25	24	Neg.	N/A	N/A	6.1	N/A	N/A	1.1	N/A	N/A	0.1	39.8
Donbasenergo	DOEN UK	Kiev, UX	26.24 UAH	+0.0	-34.0	-4.9	+19.3	2.03	47.9	84.6	14.2	6.8	7.7	34.7	0.23	429	1.2	1.1	1.2	0.3	1.4	1.1	0.2	0.2	0.2	0.9	17.8
JKX Oil & Gas	JKX LN	London	44.00 GBp	+0.6	+0.0	-38.5	-32.3	0.72	123.1	128.2	47.2	58.1	2.9	33.1	0.03	3,759	18.9	20.5	3.8	1.9	2.4	2.0	0.7	0.8	0.7	0.3	5.5
Regal Petroleum	RPT LN	London	9.00 GBp	+2.9	+63.6	-30.8	-41.5	0.15	47.0	20.2	80.9	38.0	4.6	11.4	0.03	3,221	Neg.	23.5	N/A	0.9	0.8	N/A	0.5	0.4	N/A	0.2	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	127.90 UAH	+0.0	-2.4	+41.5	+57.9	9.87	126.3	105.7	5.0	6.3	1.0	2.5	0.01	11,385	2.8	N/A	N/A	0.7	N/A	N/A	0.1	N/A	N/A	3.2	0.0
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.02 UAH	+0.0	-30.6	-37.6	-37.1	0.00	48.2	1,131.9	3.9	1.9	3.6	17.9	0.27	366	Neg.	Neg.	N/A	N/A	Neg.	N/A	1.0	0.6	N/A	N/A	64.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	2.23 UAH	+0.0	-24.4	-24.8	-30.7	0.17	33.5	30.7	4.0	1.3	6.7	14.8	0.65	153	Neg.	217.1	0.6	Neg.	0.6	0.3	0.1	0.0	0.0	0.1	0.0
Azovstal	AZST UK	Kiev, UX	0.61 UAH	+0.0	-31.9	-9.3	-2.9	0.05	197.3	190.9	4.1	8.1	12.5	11.0	0.13	787	Neg.	N/A	Neg.	Neg.	N/A	5.2	0.1	N/A	0.1	0.2	0.0
Ferrexpo PLC	FXPO LN	London	128.00 GBp	-0.3	-8.3	-31.1	-28.3	2.09	1,227.4	1,429.9	22.4	274.9	1,198.9	1,364.4	0.40	249	4.7	4.4	7.6	2.9	2.8	3.9	0.9	1.0	1.0	1.1	35.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.47 UAH	+0.0	-32.9	-10.9	-15.4	0.04	10.0	11.1	9.0	0.9	6.0	4.9	1.07	93	Neg.	0.9	0.5	0.0	0.4	0.3	0.1	0.0	0.0	0.1	0.1
Yenakievo Steel	ENMZ UK	Kiev, UX	25.73 UAH	+0.0	-37.8	-19.6	-24.1	1.99	21.0	16.9	9.4	2.0	3.2	18.8	0.31	318	3.9	N/A	Neg.	Neg.	N/A	0.5	0.0	N/A	0.0	0.6	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.80 EUR	-3.6	-10.1	-35.5	-41.2	1.03	95.2	150.8	34.0	32.4	12.2	7.5	0.02	4,359	Neg.	N/A	N/A	Neg.	N/A	N/A	2.2	N/A	N/A	1.7	35.9
Agroliga	AGL PW	Warsaw	16.24 PLN	+8.5	-9.8	-37.4	-45.7	5.00	7.7	8.6	16.7	1.3	3.2	1.6	0.27	376	1.9	N/A	N/A	2.5	N/A	N/A	0.4	N/A	N/A	0.6	5.7
Agroton	AGT PW	Warsaw	2.11 PLN	-1.9	-1.9	+8.2	-15.6	0.65	14.1	59.4	26.2	3.7	64.9	88.4	3.69	27	Neg.	2.0	1.8	22.2	6.2	3.7	0.7	0.7	0.7	0.1	28.4
Astarta Holdin...	AST PW	Warsaw	37.00 PLN	-1.0	-2.6	-44.7	-47.1	11.38	284.6	535.5	31.0	88.3	0.6	93.9	0.07	1,531	8.6	27.6	4.3	7.1	4.2	4.7	1.1	1.1	1.1	0.8	38.2
Avangard	AVGR LI	London Intl	8.00 USD	+0.0	-14.9	-31.9	-27.3	8.00	511.0	741.9	21.7	110.9	556.1	166.0	0.16	611	2.2	3.3	2.9	2.5	3.9	4.1	1.1	1.2	1.1	0.4	17.8
IMC	IMC PW	Warsaw	7.94 PLN	-2.0	-9.0	-34.7	-47.8	2.44	76.5	227.4	23.9	18.3	19.9	41.9	0.17	579	2.9	7.6	1.6	4.2	4.2	4.1	2.0	1.2	1.2	0.5	38.7
Kernel Holding...	KER PW	Warsaw	25.03 PLN	+0.0	-7.7	-34.3	-52.5	7.70	613.6	1,520.2	58.8	360.6	796.1	1,069.5	0.38	261	5.5	18.2	4.4	5.2	6.3	4.7	0.5	0.6	0.6	0.6	30.6
KSG Agro	KSG PW	Warsaw	1.38 PLN	-4.8	-69.5	-87.3	-87.1	0.42	6.4	117.5	34.4	2.2	245.4	199.6	22.62	4	Neg.	0.5	0.3	4.5	3.0	2.4	1.7	1.2	1.1	0.4	44.0
MHP	MHPC LI	London Intl	12.76 USD	+0.9	+0.9	-25.2	-21.5	12.76	1,348.3	2,558.6	22.3	300.9	1,957.6	1,433.2	0.62	162	8.6	11.6	4.6	6.5	5.3	5.1	1.7	1.8	1.6	2.3	47.0
Milkiland	MLK PW	Warsaw	4.50 PLN	+0.0	-12.6	-64.0	-59.1	1.38	43.3	172.8	20.0	8.7	6.8	5.3	0.11	882	3.1	Neg.	2.3	5.2	4.4	4.9	0.4	0.4	0.4	0.2	30.8
Mriya Agrohold...	MAYA GF	Frankfurt	1.60 EUR	+0.0	+6.7	-70.4	-62.3	2.06	219.0	946.7	20.0	43.8	0.0	3.8	0.02	5,344	2.5	2.5	1.0	5.7	3.5	3.2	1.9	2.2	2.2	0.5	45.3
TRANSPORTATION																											
KDM Shipping	KDM PW	Warsaw	6.31 PLN	-14.3	-30.1	-79.9	-80.5	1.94	18.0	1.5	10.9	2.0	0.2	0.7	0.01	9,757	2.7	N/A	N/A	0.1	N/A	N/A	0.0	N/A	N/A	0.3	5.6
CONSTRUCTION																											
TMM	TR61 GF	Xetra	0.24 EUR	+0.0	+9.1	-24.3	-46.4	0.31	16.0	191.6	13.1	2.1	0.0	0.2	0.02	4,691	Neg.	N/A	N/A	Neg.	N/A	N/A	5.6	N/A	N/A	0.2	45.5
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.13 UAH	+0.0	-8.9	+14.1	+42.1	0.01	299.7	N/A	3.8	11.4	20.6	25.5	0.26	379	3.8	Neg.	13.2	N/A	N/A	N/A	N/A	N/A	N/A	0.5	28.3
Ukrsotsbank	USCB UK	Kiev, UX	0.15 UAH	+0.0	-11.9	-20.0	+18.4	0.01	210.1	N/A	4.5	9.4	2.9	10.5	0.01	7,866	Neg.	11.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.3	30.9

Table 1. Ukrainian stocks (closing prices as of 17-Sep-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)	2013	2014E	2014E	2013	2014E	2014E	2013	2014E

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 holds steady at 13/USD

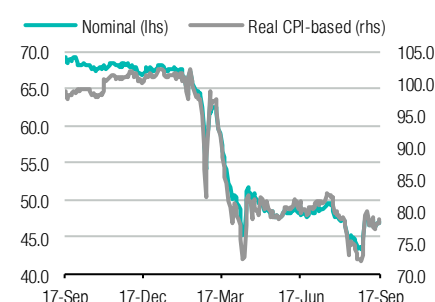
Yesterday's US Fed decision to reduce monthly bond purchases by an additional US\$10m while maintaining interest rates near zero had a very strong impact on the FX markets. Following the announcement, the US dollar index (Bloomberg: DXY) moved up 0.32%. While the Euro was supported by August inflation officially reported to be flat, the single currency declined 0.73% on the Fed news. The Russian ruble traded mostly flat over the day while closed 0.26% down at 38.3740/USD, suggesting that market players are cautious about taking sides.

The hryvnia retreated from the yesterday's low of 14/USD and appears to be supported up to the 12.9-13.03/USD range. It closed 0.35% up to 12.8500/USD according to Bloomberg market data. This support is probably not sustainable over the medium term.

Alexander Valchyshen, Kiev, +38044 2200120 ext.242

ICU's UAH trade-weighted indices

(Last 12-month history to 18 Sep 2014)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 17 Sep 2014)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	12.8500	-0.35	-0.39	-2.10	+55.95
NBU avg	13.0823	+0.72	+1.01	-0.40	+60.50
Ttl vlm ¹	395.23	+33.59	-35.83	-20.51	-85.90
\$ volume ²	260.16	+34.15	+11.15	-40.30	-88.23
NDF 3M	14.7500	+0.00	+7.39	+8.19	+73.84
NDF 6M	15.4000	+0.65	+10.00	+9.57	+75.40
NDF 1Y	16.3500	+0.62	+10.47	+9.95	+73.57
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	47.204	+0.73	+1.55	+5.78	-30.11
UAH real CPI	78.645	+0.73	+1.55	+5.78	-22.19
UAH real PPI	118.447	+0.73	+1.55	+5.78	-14.66
USD nom'l	84.345	+0.32	+0.07	+3.59	+5.39
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	38.3740	+0.26	+2.81	+6.05	+16.75
EUR/USD	1.2865	-0.73	-0.40	-4.00	-6.39
USD/CNY	6.1397	-0.11	+0.16	-0.12	+1.41
USD/PLN	3.2555	+0.76	+0.18	+3.72	+7.69
USD/TRY	2.2238	+0.94	+1.43	+2.61	+3.52
USD/BYR	10,530.00	+0.14	+0.24	+1.35	+10.38
USD/KZT	181.9600	-0.03	-0.02	-0.04	+17.95
OTHER MAJOR CURRENCIES					
USD/JPY	108.3700	+1.16	+1.41	+5.87	+2.91
GBP/USD	1.6276	-0.01	+0.40	-2.50	-1.70
USD/CHF	0.9412	+0.92	+0.48	+4.28	+5.41
AUD/USD	0.8959	-1.48	-2.14	-3.89	+0.47
USD/CAD	1.0998	+0.26	+0.55	+0.93	+3.53
USD/BRL	2.3579	+1.12	+3.03	+4.33	-0.18
USD/KRW	1,034.90	-0.18	+0.00	+1.80	-1.42
COMMODITIES					
Gold(\$/oz)	1,223.60	-0.97	-2.10	-6.23	+1.49
WTI crude ³	94.42	-0.48	+3.00	-3.01	-4.06
Brent crd ³	97.24	-0.10	+0.04	-4.66	-12.25
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	284.10	-0.10	+0.16	-2.01	+1.40

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.

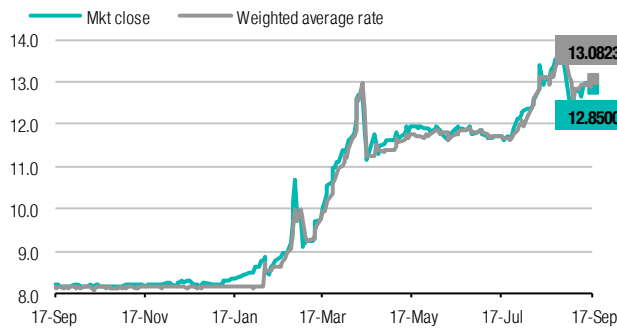
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

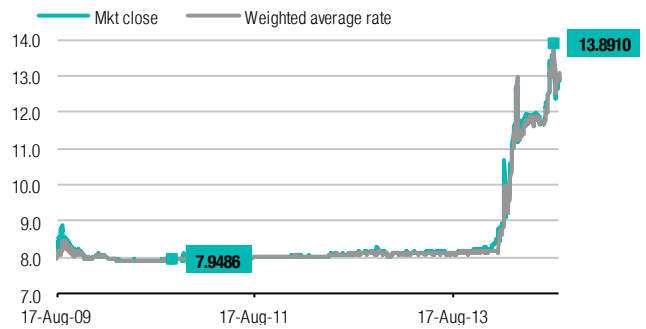
Section on FX market is continued on next page.

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)

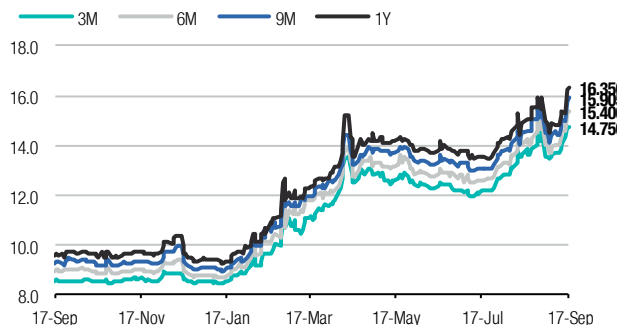


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

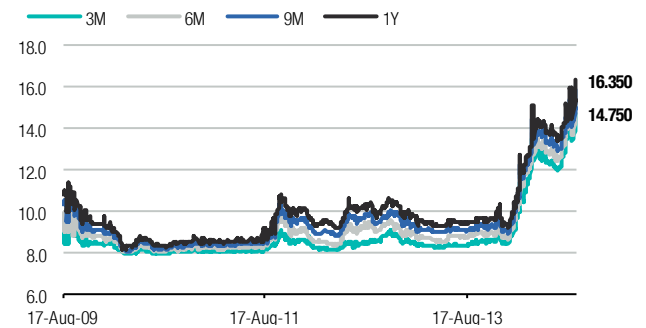


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

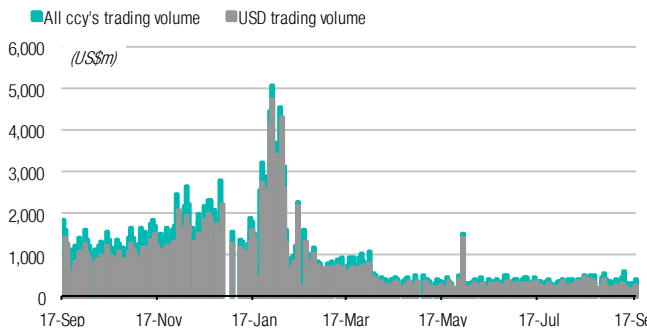


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

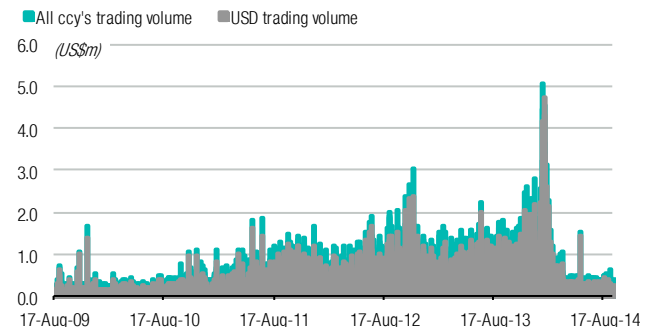


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

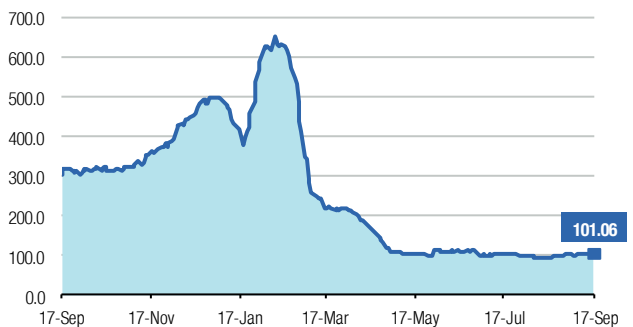


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

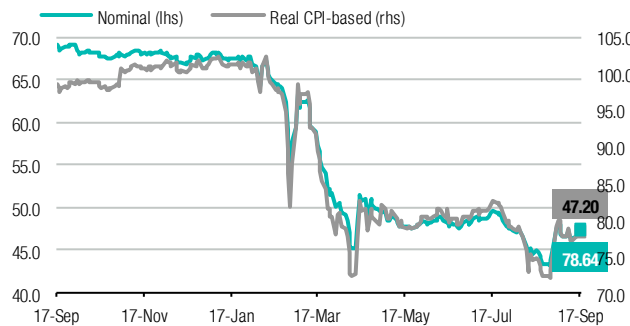


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

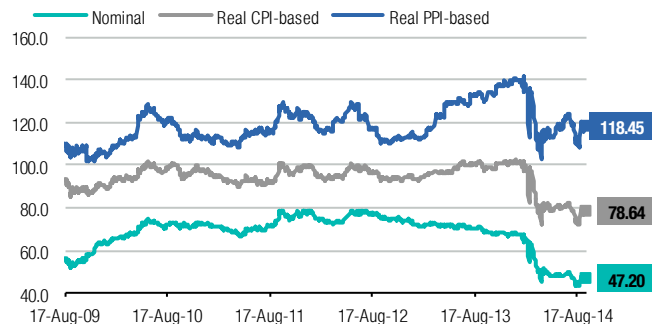
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology published in the [Quarterly Report "Keep the music playing"](#) dated 31 January 2013 and, then, updated, in the [Quarterly Report "Muddling through no more"](#) dated 14 August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

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



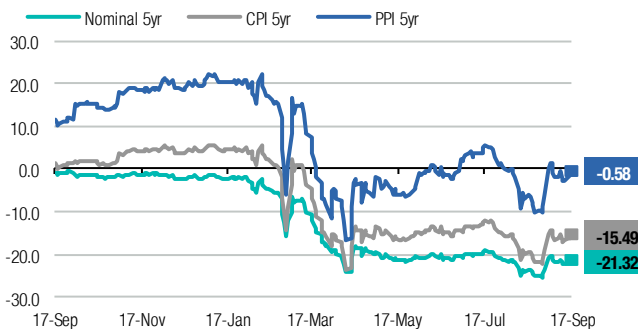
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

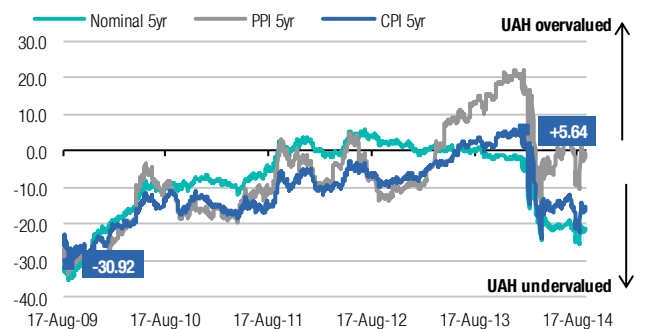


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

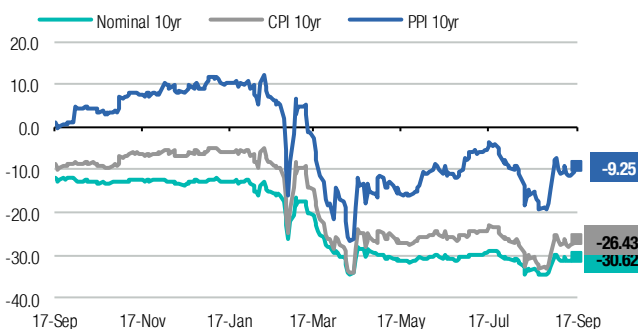


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

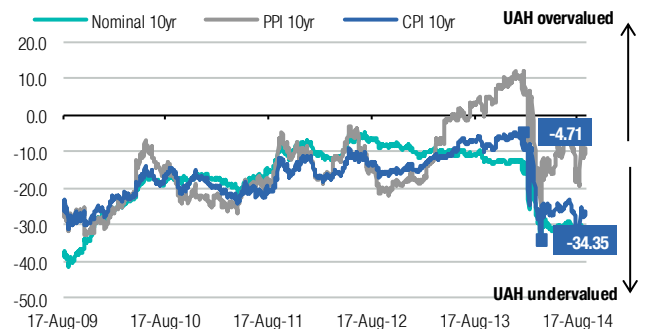


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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



Office 44, 11th floor, LEONARDO Business Centre
19-21 Bogdan Khmelnytsky Street
Kiev, 01030 Ukraine
Phone/Fax +38 044 2200120

CORPORATE FINANCE TEL. +38 044 2200120

Makar Paseniuk, Managing Director
makar.paseniuk@icu.ua

Ruslan Kilmukhametov, Director
ruslan.kilmukhametov@icu.ua

SALES AND TRADING TEL. +38 044 2201621

Konstantin Stetsenko, Managing Director
konstantin.stetsenko@icu.ua

Sergiy Byelyayev, Fixed-Income Trading
sergiy.byelyayev@icu.ua

Vitaliy Sivach, Fixed-Income & FX Trading
vitaliy.sivach@icu.ua

Vlad Sinani, Director,
Strategy and Corporate Development
vlad.sinani@icu.ua

Julia Pecheritsa,
Ukraine and CIS International Sales
julia.pecheritsa@icu.ua

Yevgeniya Gryshchenko,
Fixed-Income Sales
yevgeniya.gryshchenko@icu.ua

RESEARCH DEPARTMENT TEL. +38 044 2200120

Alexander Valchyshen
Head of Research
alexander.valchyshen@icu.ua

Alexander Martynenko
Head of corporate research
alexander.martynenko@icu.ua

Bogdan Vorotilin
Financial analyst (Food & Agribusiness)
bogdan.vorotilin@icu.ua

Taras Kotovych
Senior financial analyst (Sovereign debt)
taras.kotovych@icu.ua

Mykhaylo Demkiv
Financial analyst (Banks)
mykhaylo.demkiv@icu.ua

Lee Daniels, Rolfe Haas
Editors

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