

Daily Insight

Primary auction announcement

Contents

Economics: News & Comments	2
Agriculture in June: Weak reading.....	2
Bonds: News & Comments	3
Liquidity reallocation.....	3
Primary auction announcement.....	3
Chart page: Local bond market & Eurobond markets.....	4
FX: News & Comments	6
UAH slides further.....	6
Chart page #1: Foreign-exchange market.....	7
Chart page #2: ICU's UAH trade-weighted indices.....	8

TUESDAY, 14 JULY 2015

UX Index (3 months to 14 Jul 2015)



Source: UX.

Key market indicators (as of 13 Jul 2015)

	Last	Daily chg (%)	YTD chg (%)
FX & MONEY RATES			
USD/UAH	22.2000	+1.14	+40.33
USD/UAH (1Y NDF)	25.0153	+0.00	+35.58
EUR/USD	1.1002	-1.43	-9.06
USD/RUB	56.5496	+0.23	-6.89
KievPRIME O/N (%)	21.00	-13bp	+210bp
KievPRIME 1M (%)	25.67	-208bp	+577bp
SOVEREIGN EUROBONDS: yields and spreads			
Ukraine 15, Eurobond (%)	430.82	-237bp	+36,905bp
Ukraine 17, Eurobond (%)	46.52	-167bp	+1,876bp
Ukraine 22, Eurobond (%)	18.76	-47bp	+251bp
Ukraine 23, Eurobond (%)	18.39	-27bp	+283bp
Ukraine 5Y CDS	2,234bp	-65bp	+35bp
EQUITIES			
Stock market indices			
UX (Ukraine)	1,007.90	+0.94	-2.46
MSCI World	427.19	+0.90	+2.41
MSCI EM	943.01	+1.09	-1.39
RTS (Russia)	915.47	+1.13	+16.30
WIG-20 (Poland)	2,269.00	-0.08	-2.03
S&P 500 (USA)	2,099.60	+1.11	+1.98

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.

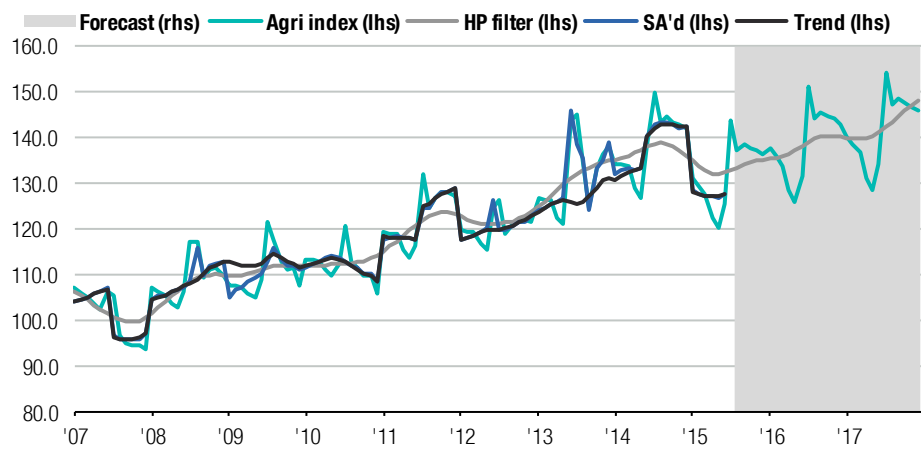
Economics: News & Comments

Agriculture in June: Weak reading

In the State Statistics Office's June 2015 monthly report on agriculture released last Friday, the sector rose 0.7% MoM and declined 9.0% YoY in seasonally adjusted terms. For 1H15, the agriculture production index fell 9.3%, a sharper drop than the first five months of the year indicated then the index declined 5.4% YoY for 5M15. The index's steep drop in June is a reflection of the harvesting season, which likely affected the previous year's data for this month. Considering the optimistic expectations for this year's harvest, we expect the index to recover in 2H15. However, as full year 2015 data is not expected to outperform full year 2014, we maintain our full year forecast for agriculture production to come in 4% lower in 2015 than in 2014.

Chart 1. Agriculture production index

Monthly history from January 2007 through June 2015



Source: State Statistics Service of Ukraine, ICU.

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Bonds: News & Comments

Liquidity reallocation

Broader banking sector liquidity declined UAH0.82bn to UAH71.91bn yesterday as banks' correspondent accounts with the NBU rose a significant UAH5.43bn to UAH25.71bn while total CDs outstanding fell UAH6.25bn to UAH39.91bn. Total local currency debt repayments scheduled for the next 30 days remained steady at UAH5.28bn, unchanged since last Thursday. Despite the decline in liquidity, KyivPrime interest rates fell: the KyivPrime ON interest rate slid 13bp to 21.00% while the KyivPrime 1M interest rate fell 208bp to 25.67%.

Liquidity remained mostly steady amidst the reallocation of funds prior to today's government bond auction and tomorrow's 3-month CD offering. Although we anticipate market demand for these two instruments, the MoF most likely will reject all bids with interest rates above their comfortable level.

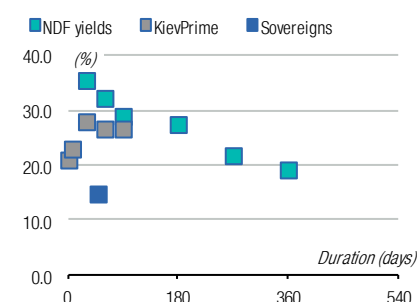
Primary auction announcement

Following the schedule, the MoF announced a local currency offering of 2-year bonds. The MoF has not sold local currency bonds since the end of February 2015 when it last sold an insignificant amount at 16.70%. The market is now above this level, with 1-year bonds quoted at 21% and 4-year bonds above 23.50%. We do not expect a market bid below 20-21%. Any bids at rates below 20% most likely would be from state-owned banks or supported by domestic QE.

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Yield curve of the local bond market

(as of market close on 13 Jul 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 13 Jul 2015)

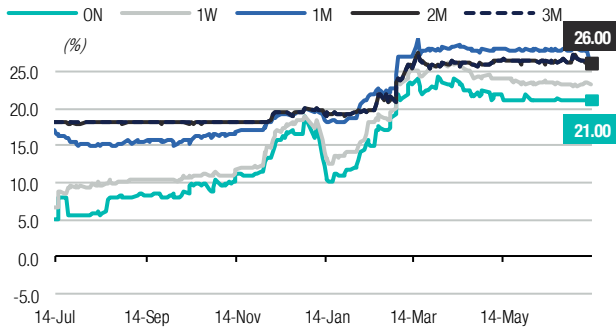
	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
MONEY MARKET KIEV PRIME RATES (%)					
O/n	21.00	-13bp	-10bp	+0bp	+210bp
1wk	23.17	-21bp	-13bp	-21bp	+417bp
1m	25.67	-208bp	-213bp	-233bp	+577bp
2m	26.33	+8bp	-7bp	-17bp	+633bp
3m	26.00	-25bp	-40bp	-50bp	+600bp
LIQUIDITY WIDE MEASUREMENT (UAHm)					
CB acc's ¹	25,714	+26.77	+12.03	-4.69	-22.67
CDs ²	2,148	-55.34	-66.10	-93.35	-86.39
Sovgns ³	5,773	+21.07	-6.83	+48.05	+27.39
Total	33,635	+12.63	-5.22	-46.76	-37.21
HOLDERS OF UAH SOVEREIGN BONDS (UAHm)					
C.bank	359,357	+0.00	+0.14	+2.54	+12.96
Banks	83,779	+0.17	+1.88	+2.21	-10.33
Resid's ⁴	24,238	+0.03	-1.02	+13.14	-1.27
Non-res ⁵	23,749	+0.21	+3.43	+3.33	+10.24
Total	491,123	+0.04	+0.53	+3.00	+7.31
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	2,234	-65bp	-454bp	-899bp	+35bp
Jun '16	85.95	-317bp	-765bp	-11ppt	+49bp
Jul '17	46.52	-167bp	-386bp	-572bp	+19bp
Sep '20	23.11	-50bp	-132bp	-282bp	+426bp
Sep '21	21.51	-17bp	-144bp	-237bp	+297bp
Sep '22	18.76	-47bp	-104bp	-227bp	+251bp
Feb '23	18.39	-27bp	-54bp	-6bp	+283bp

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.

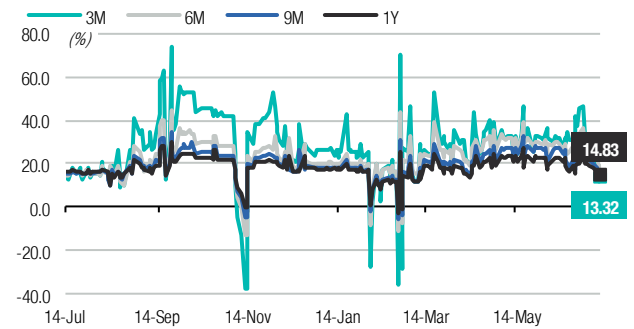
Chart page: Local bond market & Eurobond markets

Chart 2. Kiev Prime rates (%), last 12-month period



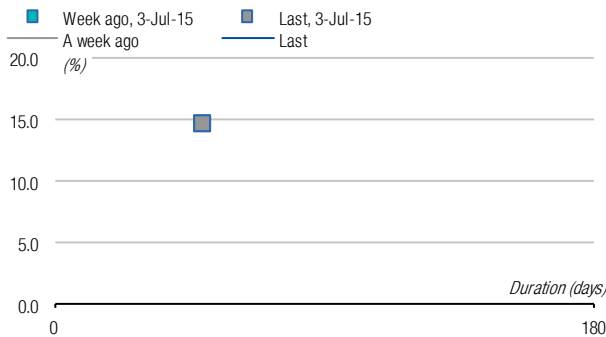
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH NDF implied yields (%), last 12-month period



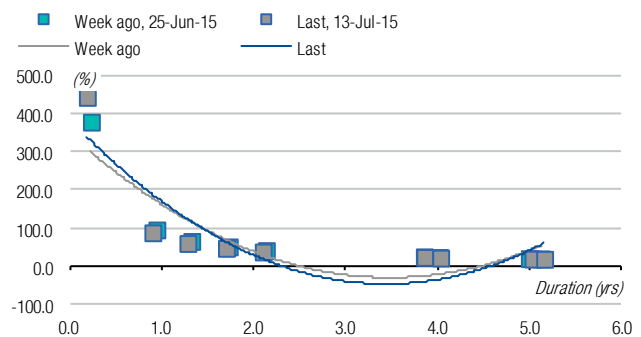
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. UAH sovereign yield curve (%) as of 13 Jul 2015



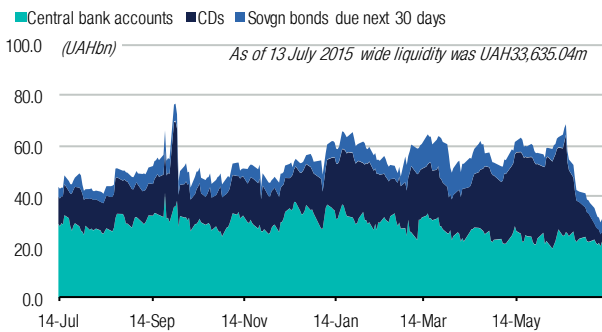
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 5. USD sovereign yield curve (%) as of 13 Jul 2015



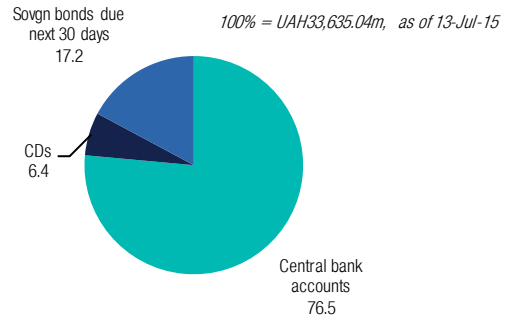
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 6. Banking sector liquidity (UAHbn), last 12-month period



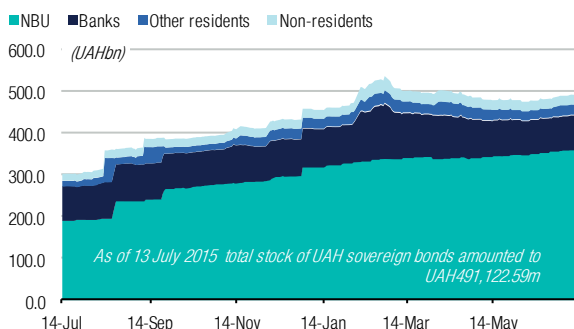
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 7. Breakdown of liquidity pool (%) as of 13 Jul 2015



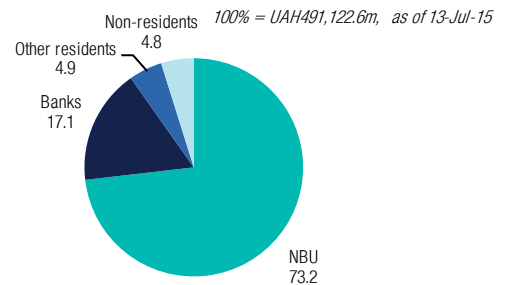
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 8. Holders of sovereign bonds (UAHbn), last 12 months



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

Chart 9. Domestic sovereign debt (%) as of 13 Jul 2015



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

Table 1. Ukrainian stocks (closing prices as of 13-Jul-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	11.13 GBp	+0.0	-10.1	+11.3	+0.0	0.17	39.8	8.5	40.2	16.0	1.9	34.4	0.47	211	Neg.	N/A	N/A	Neg.	N/A	N/A	0.3	N/A	N/A	0.4	15.3
Centrenerg	CEEN UK	Kiev, UX	7.73 UAH	+0.0	-1.4	+2.5	-1.4	0.35	128.7	133.6	21.7	27.9	6.8	18.5	0.08	1,261	40.5	Neg.	6.5	0.4	Neg.	N/A	0.4	0.3	0.2	1.3	4.2
Coal Energy	CLE PW	Warsaw	0.66 PLN	+0.0	+17.9	+6.5	-42.1	0.18	7.9	80.4	25.0	2.0	2.0	1.9	0.16	616	Neg.	N/A	N/A	11.0	N/A	N/A	0.7	N/A	N/A	0.3	56.9
Donbasenergo	DOEN UK	Kiev, UX	21.39 UAH	+0.0	-1.9	-35.2	-44.8	0.96	22.8	36.0	14.2	3.2	0.2	5.2	0.15	681	5.0	Neg.	N/A	0.0	10.5	N/A	0.2	0.2	N/A	0.3	13.6
JXK Oil & Gas	JXK LN	London	18.25 GBp	-1.4	-36.5	+52.1	-67.8	0.28	48.6	59.6	47.2	22.9	52.0	120.3	0.14	706	Neg.	Neg.	Neg.	Neg.	1.1	N/A	0.4	0.4	0.8	0.2	9.9
Regal Petroleum	RPT LN	London	4.99 GBp	-9.1	-0.3	+59.5	-46.1	0.08	24.7	-7.1	80.9	20.0	0.0	4.4	0.02	5,203	4.3	8.2	N/A	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.3	0.0
Zakhidenergo	ZAEN UK	Kiev, PFTS	167.00 UAH	+0.0	+7.1	+12.8	+19.3	7.52	96.2	145.0	5.0	4.8	0.0	0.1	0.00	37,819	Neg.	N/A	N/A	0.1	N/A	N/A	0.3	N/A	N/A	0.7	11.6
METALLURGY																											
Alchevsky Meta...	ALMK UK	Kiev, UX	0.01 UAH	+0.0	-10.6	-11.7	-64.9	0.00	14.9	1,864.5	3.9	0.6	0.0	0.8	0.15	678	Neg.	Neg.	N/A	0.6	Neg.	N/A	2.8	6.3	N/A	N/A	145.5
Avdiyivsky Cok...	AVDK UK	Kiev, UX	1.15 UAH	+0.0	-5.9	-33.5	-64.2	0.05	10.1	7.8	4.0	0.4	0.0	1.1	0.49	206	Neg.	Neg.	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.0	0.0
Azovstal	AZST UK	Kiev, UX	0.78 UAH	+0.0	-2.0	+4.6	-4.7	0.04	147.5	107.1	4.1	6.0	0.6	5.4	0.11	939	3.6	2.8	N/A	0.0	1.0	N/A	0.1	0.1	N/A	0.2	0.0
Ferrexpo PLC	FXPO LN	London	62.75 GBp	+6.8	-15.2	+28.3	-52.3	0.97	571.6	1,268.3	22.4	128.0	455.3	734.3	0.61	165	3.2	7.1	10.7	4.0	5.3	6.7	0.9	1.2	1.2	0.8	61.1
Yasynivsky Cok...	YASK UK	Kiev, UX	0.23 UAH	+0.0	-4.6	-18.2	-67.7	0.01	2.8	3.5	9.0	0.3	0.0	0.2	0.24	412	Neg.	7.0	N/A	Neg.	Neg.	N/A	0.0	0.0	N/A	0.0	0.0
Yenakievo Steel	ENMZ UK	Kiev, UX	16.69 UAH	+0.0	-1.8	-20.3	-61.1	0.75	7.9	0.4	9.4	0.7	9.0	2.9	0.54	187	Neg.	Neg.	N/A	0.0	0.0	N/A	0.0	0.0	N/A	0.2	0.0
FOOD AND AGRIBUSINESS																											
AgroGeneration	ALAGR FP	EN Paris	0.44 EUR	+7.3	-4.3	+2.3	-56.0	0.48	44.7	92.1	34.0	15.2	6.3	9.1	0.05	2,006	Neg.	N/A	N/A	Neg.	N/A	N/A	1.3	N/A	N/A	1.0	35.9
Agroliga	AGL PW	Warsaw	11.24 PLN	-0.4	-3.9	+24.9	-42.3	2.98	4.6	5.3	16.7	0.8	1.5	2.0	0.08	1,289	1.3	N/A	N/A	1.5	N/A	N/A	0.3	N/A	N/A	0.4	5.7
Agroton	AGT PW	Warsaw	1.12 PLN	-1.8	+13.1	-8.9	-61.1	0.30	6.4	33.8	26.2	1.7	1.6	9.1	0.51	197	Neg.	N/A	N/A	1.5	N/A	N/A	0.6	N/A	N/A	0.1	33.4
Astarta Holdin...	AST PW	Warsaw	30.25 PLN	+0.0	+8.0	+51.3	-29.7	8.02	200.6	432.1	31.0	62.2	2.0	182.4	0.08	1,209	Neg.	Neg.	Neg.	3.8	3.6	4.3	1.1	1.1	1.0	1.3	49.6
Avangard	AVGR LI	London Intl	1.01 USD	+0.0	-34.8	-50.7	-89.2	1.01	64.5	326.7	21.7	14.0	0.0	18.4	0.06	1,540	Neg.	Neg.	Neg.	2.5	4.8	4.1	0.8	1.0	1.0	0.2	33.1
Kernel Holding...	KER PW	Warsaw	38.80 PLN	+0.8	+2.1	+36.3	+26.1	10.29	820.2	1,294.3	58.8	482.0	1,075.5	1,278.5	0.15	662	Neg.	6.3	5.0	5.8	3.8	3.8	0.5	0.5	0.5	1.0	39.1
KSG Agro	KSG PW	Warsaw	0.62 PLN	+3.3	+1.6	-44.6	-86.3	0.16	2.5	67.5	34.4	0.8	2.9	3.0	0.07	1,416	Neg.	N/A	0.1	7.8	N/A	N/A	0.9	0.7	0.6	N/A	44.5
MHP	MHPC LI	London Intl	10.35 USD	+4.5	-4.2	+12.5	-29.6	10.35	1,093.7	2,253.6	22.3	244.1	203.2	560.5	0.19	536	Neg.	5.8	4.4	4.1	4.5	4.5	1.6	1.8	1.7	2.6	53.0
Milkiland	MLK PW	Warsaw	1.52 PLN	+0.7	-24.0	+2.7	-77.1	0.40	12.6	124.8	20.0	2.5	10.5	10.5	0.42	239	Neg.	Neg.	1.7	9.1	4.3	3.9	0.4	0.5	0.5	0.1	42.5
Ovostar Union	OVO PW	Warsaw	79.00 PLN	+0.0	-1.3	+9.7	+15.8	20.96	125.7	135.9	25.0	31.4	1.3	103.6	0.01	10,029	5.0	5.4	10.1	4.6	5.2	7.6	1.8	1.8	2.4	1.5	9.4
CONSTRUCTION																											
TMM	TR61 GF	Frankfurt	0.05 EUR	+0.0	+100.0	-37.5	-73.8	0.05	2.8	130.0	13.1	0.4	0.0	0.6	0.05	1,999	Neg.	N/A	N/A	Neg.	N/A	N/A	4.0	N/A	N/A	0.0	45.5
FINANCIAL SERVICES																											
Raiffeisen Ban...	BAVL UK	Kiev, UX	0.09 UAH	+0.0	-1.7	-5.5	-39.5	0.00	122.5	N/A	3.8	4.7	0.0	8.1	0.11	899	N/A	Neg.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.7	N/A
Ukrsofsbank	USCB UK	Kiev, UX	0.09 UAH	+0.0	-13.5	-33.6	-49.0	0.00	96.1	N/A	4.5	4.3	0.0	0.7	0.03	2,885	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

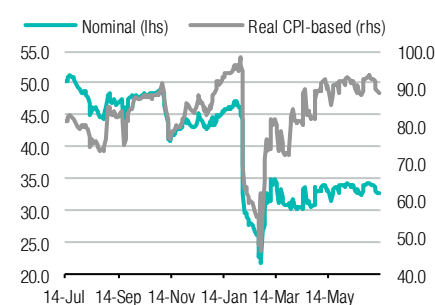
UAH slides further

Yesterday, the hryvnia declined 1.14% to close at 22.20/USD, on trading volume of US\$170m. This corresponded to a 63% ratio of FX turnover to foreign trade in merchandise (exports plus imports), see Chart 12 on next page. In our opinion, such a low ratio means either FX turnover was either under-reported, foreign trade was over-reported, or both factors had a mixed impact. Foreign FX markets had a mixed reaction to the Eurozone deal reached with the Greek government. As the deal still appears to be controversial, the euro fell 1.43% yesterday. The Russian ruble was under pressure as the price of crude oil (Brent) was fell 1.38%. The hryvnia's trade weighted value fell 0.77% from Friday's close.

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ICU's UAH trade-weighted indices

(Last 12-month history to 14 Jul 2015)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 13 Jul 2015)

	Last	Daily	Weekly	MoM	YTD
	chg (%)	chg (%)	chg (%)	chg (%)	chg (%)
USD/UAH MARKET (HRYVNIA per US DOLLAR)					
Spot mkt	22.2000	+1.14	+3.86	+5.46	+40.33
NBU avg	21.9638	+0.22	+3.28	+4.30	+39.29
Ttl vlm ¹	245.63	-24.46	-24.04	+14.72	-42.99
\$ volume ²	169.93	-29.44	-30.90	+12.12	-52.04
NDF 3M	22.6653	+0.00	+0.00	-0.15	+34.51
NDF 6M	24.0153	+0.00	+0.48	-0.35	+38.02
NDF 1Y	25.0153	+0.00	+0.00	-2.28	+35.58
TRADE-WEIGHTED INDICES (TWIs, points)					
UAH nom'l	32.560	-0.77	-4.02	-3.92	-26.77
UAH real CPI	88.518	-0.77	-4.02	-3.92	+2.28
UAH real PPI	105.866	-0.77	-4.02	-3.92	-10.10
USD nom'l	96.858	+0.87	+0.58	+1.99	+7.30
FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs					
USD/RUB	56.5496	+0.23	-0.57	+2.39	-6.89
EUR/USD	1.1002	-1.43	-0.49	-2.34	-9.06
USD/CNY	6.2084	-0.02	-0.01	+0.00	+0.05
USD/PLN	3.7600	+0.43	-1.09	+2.16	+6.11
USD/TRY	2.6461	-0.77	-1.19	-2.48	+13.32
USD/BYR	15,163.00	-1.53	-1.22	-0.90	+37.85
USD/KZT	186.8300	+0.15	+0.34	+0.26	+2.46
OTHER MAJOR CURRENCIES					
USD/JPY	123.4300	+0.53	+0.70	+0.03	+3.05
GBP/USD	1.5487	-0.19	-0.76	-0.48	-0.58
USD/CHF	0.9502	+1.23	+0.82	+2.30	-4.44
AUD/USD	0.7407	-0.52	-1.24	-4.19	-9.39
USD/CAD	1.2741	+0.66	+0.70	+3.40	+9.64
USD/BRL	3.1338	-0.84	-0.13	+0.45	+17.92
USD/KRW	1,130.51	+0.09	+0.36	+1.42	+3.62
COMMODITIES					
Gold(\$/oz)	1,157.97	-0.49	-1.06	-2.00	-2.27
WTI crude ³	52.20	-1.02	-0.63	-12.94	-2.01
Brent crd ³	57.25	-1.38	+2.93	-8.68	+2.67
Urals crd ³	N/A	+0.00	+0.00	+0.00	+0.00
TR/J CRB ⁴	218.51	+0.12	+0.30	-2.24	-4.98

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.

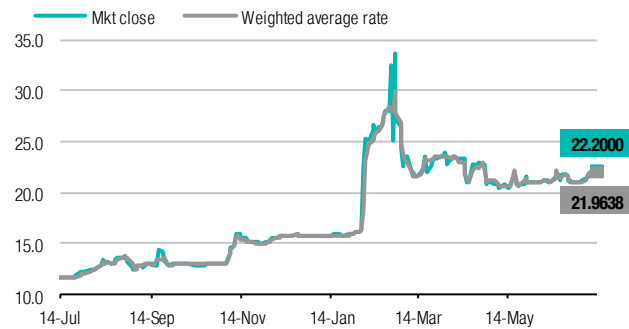
Sources: Bloomberg, Investment Capital Ukraine LLC.

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>).

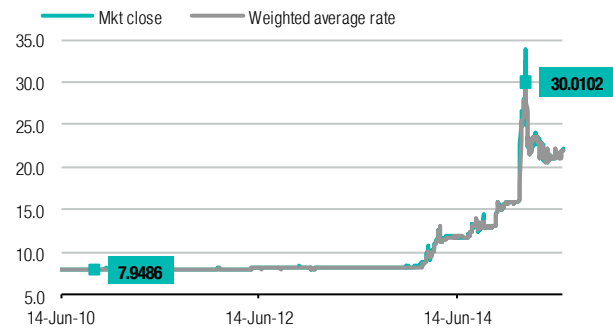
Section on FX market is continued on next page.

Chart page #1: Foreign-exchange market

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

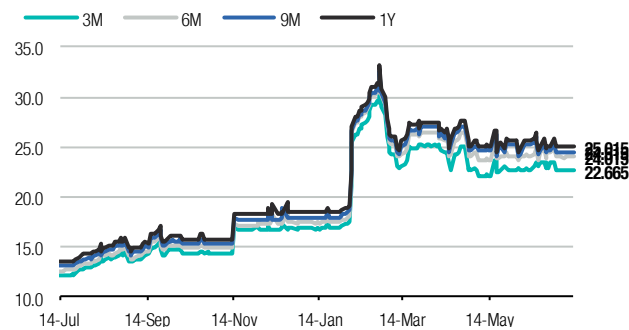


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

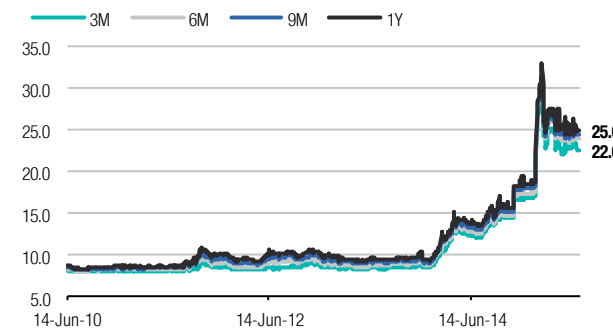


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

Chart 11. NDF market rates USD/UAH: last 12-month and 5-year periods (UAH per USD, left and right respectively)

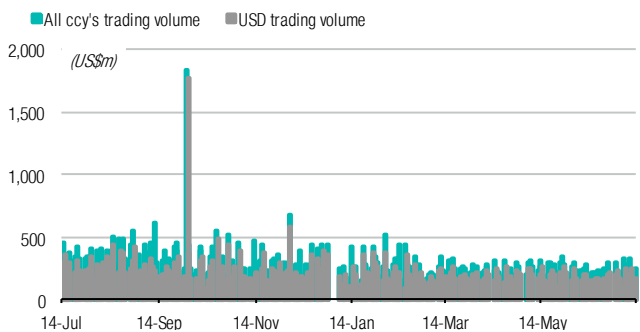


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

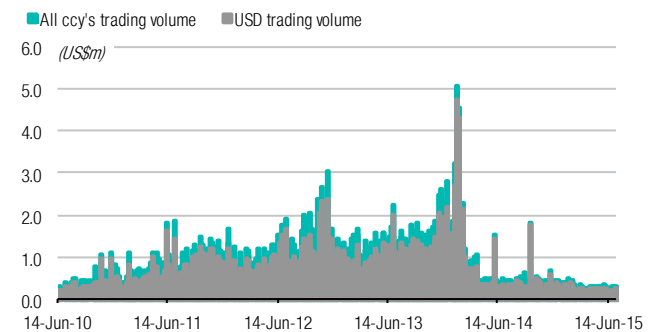


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

Chart 12. 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 13. 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.

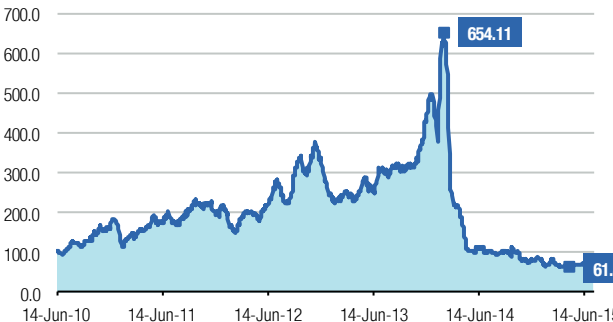
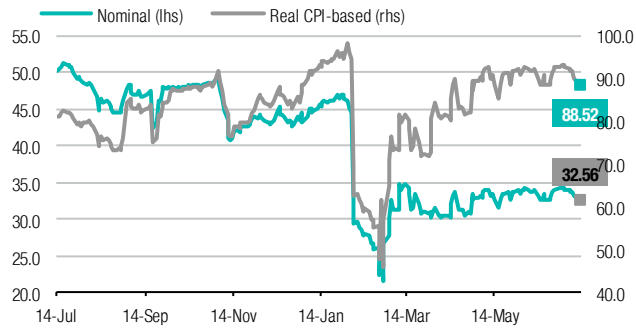


Chart page #2: ICU's UAH trade-weighted indices

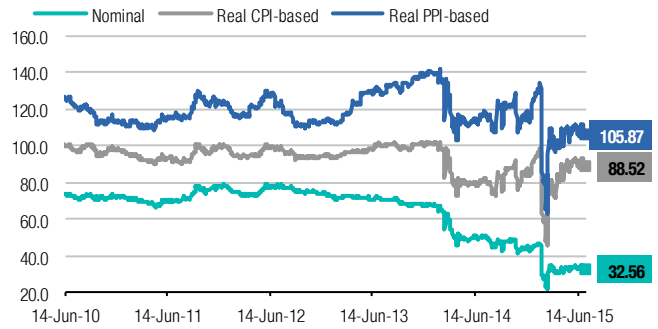
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

Chart 14. Nominal and CPI-based real TWIs of UAH, history of last 12-month period



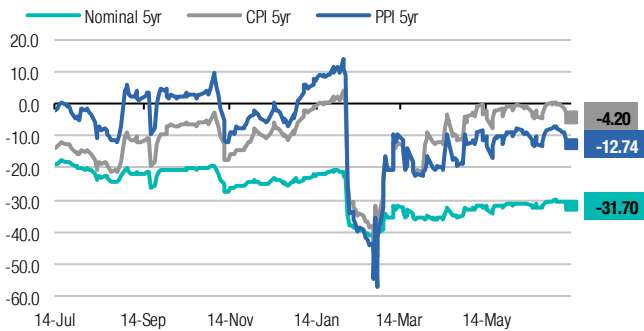
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

Chart 15. Nominal, CPI- and PPI-based TWIs of UAH, history of last 5-year period

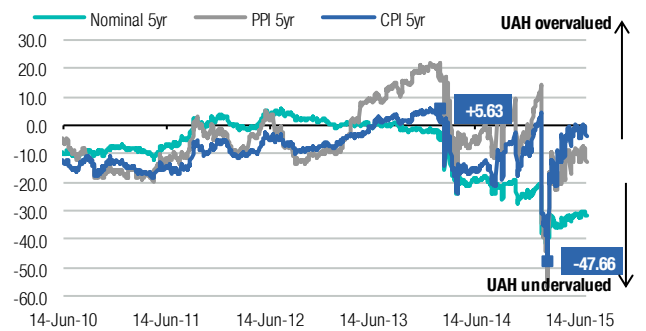


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

Chart 16. Deviation of UAH trade-weighted indices from their 5-year moving averages: last 12-month and 5-year periods (% , left and right respectively)

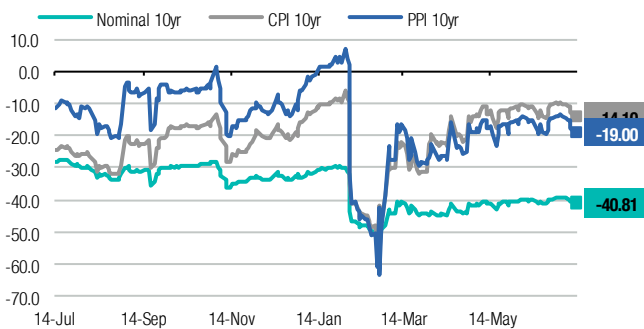


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

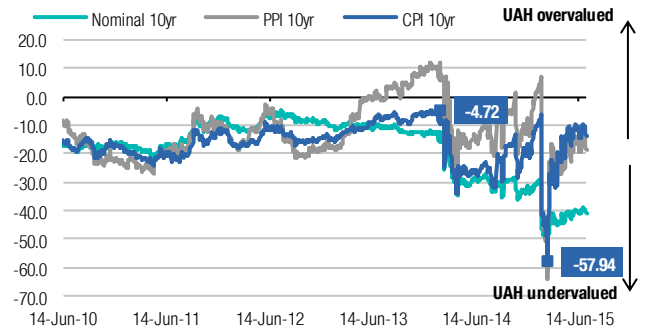


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

Chart 17. 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.

EQUITY RATING DEFINITIONS

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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