



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

Research team
Taras Kotovych

Daily Insight

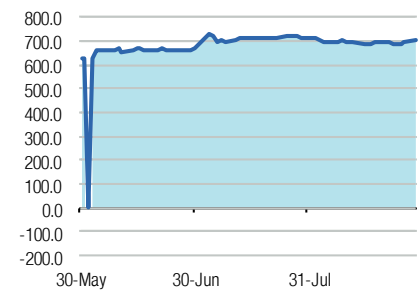
Liquidity continues to decline

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TUESDAY, 30 AUGUST 2016

UX Index (3 months to 30 Aug 2016)



Source: UX.

Key market indicators (as of 29 Aug 2016)

| | Last | Daily chg (%) | YTD chg (%) |
|--|----------|---------------|-------------|
| FX & MONEY RATES | | | |
| USD/UAH | 25.5400 | +0.24 | +6.29 |
| USD/UAH (1Y NDF) | 29.5900 | +0.20 | +16.06 |
| EUR/USD | 1.1189 | -0.08 | +3.01 |
| USD/RUB | 64.7343 | +0.23 | -10.74 |
| KievPRIME O/N (%) | 14.13 | +0bp | -493bp |
| KievPRIME 1M (%) | 17.50 | +0bp | -475bp |
| SOVEREIGN EUROBONDS: yields and spreads | | | |
| Ukraine 15, Eurobond (%) | N/A | +0bp | +0bp |
| Ukraine 17, Eurobond (%) | 29.14 | +26bp | +0bp |
| Ukraine 22, Eurobond (%) | 12.32 | -1bp | +0bp |
| Ukraine 23, Eurobond (%) | 11.85 | +0bp | +0bp |
| Ukraine 5Y CDS | 671bp | +0bp | +0bp |
| EQUITIES | | | |
| Stock market indices | | | |
| UX (Ukraine) | 702.37 | +1.03 | +2.41 |
| MSCI World | 418.04 | -0.09 | +4.68 |
| MSCI EM | 895.97 | -0.60 | +12.82 |
| RTS (Russia) | 962.08 | -1.17 | +27.08 |
| WIG-20 (Poland) | 1,777.35 | +0.08 | -4.40 |
| S&P 500 (USA) | 2,180.38 | +0.52 | +6.68 |

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 continues to decline

Banking sector liquidity slid a mere UAH0.95bn to UAH76.40bn yesterday, which is low as the daily average decline over the past two weeks has been above UAH2.2bn per day. Banks' correspondent accounts with the NBU slid UAH0.40bn to UAH40.50bn while total CDs outstanding was down UAH0.56bn to UAH35.90bn.

Investment implications: Liquidity continued to decline under the pressure of month-end tax payments, lack of inflows and a weakening local currency. In a few days, liquidity could recover slightly, but new record lows could continue.

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Primary auction announcement

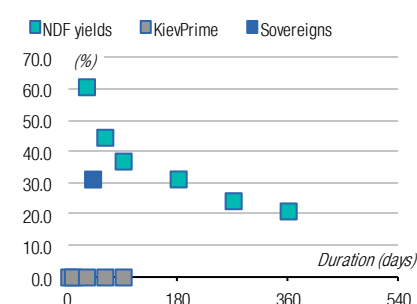
The MoF announced a new auction for today, following the schedule, offering four bonds with the usual maturities. Zero-coupon bonds will be offered with 6-month, 7-month and 12-month maturities, while the coupon-bearing bond will be offered with a 5-year maturity which was offered just a few times this year and sold at UAH4.50bn (par value) to a small range of bidders. The last time the 5-year bond sold was at the beginning of July to five bidders at a 16.65% interest rate at UAH0.18bn (par value).

Investment implications: The last time, zero-coupon bonds were sold at 15.50-15.70%. We doubt demand will come in below this level this week, especially due to very low level of liquidity in the banking system. The 5-year bonds likely will not see bids below 16.65%, the last cut-off interest rate, if any demand at all. With no redemptions scheduled this week and only UAH1.08bn of interest repayments due, which should be mostly received by the NBU, the MoF will not support demand for new bonds. So, the MoF is most likely not interested in new borrowings at high cost and could postpone new borrowings until September.

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Yield curve of the local bond market

(as of market close on 29 Aug 2016)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 29 Aug 2016)

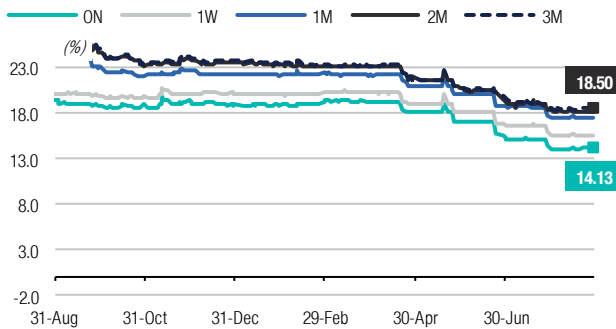
| | Last | Daily | Weekly | MoM | YTD |
|---|----------------|---------------|---------------|---------------|---------------|
| | chg (%) | chg (%) | chg (%) | chg (%) | chg (%) |
| MONEY MARKET KIEV PRIME RATES (%) | | | | | |
| O/n | 14.13 | +0bp | -12bp | -20bp | -493bp |
| 1wk | 15.50 | +0bp | +0bp | -50bp | -450bp |
| 1m | 17.50 | +0bp | +0bp | -17bp | -475bp |
| 2m | 18.00 | +0bp | +0bp | -33bp | -550bp |
| 3m | 18.50 | +0bp | +0bp | +0bp | -525bp |
| LIQUIDITY WIDE MEASUREMENT (UAHm) | | | | | |
| CB acc's ¹ | 40,499 | -1.17 | +11.08 | +6.20 | +4.06 |
| CDs ² | 35,897 | -28.14 | -45.40 | -56.68 | -70.28 |
| Sovgns ³ | 9,958 | +0.00 | +0.71 | +44.48 | +111.1 |
| Total | 86,354 | -12.25 | -18.66 | -27.23 | -41.70 |
| HOLDERS OF UAH SOVEREIGN BONDS (UAHm) | | | | | |
| C.bank | 370,896 | +0.00 | -0.47 | -0.67 | -2.35 |
| Banks | 146,541 | +0.23 | +2.27 | +10.77 | +79.65 |
| Resid's ⁴ | 13,852 | -0.01 | -0.24 | -0.82 | -34.03 |
| Non-res ⁵ | 18,412 | +0.40 | +0.65 | -17.28 | -17.46 |
| Total | 549,702 | +0.07 | +0.29 | +1.43 | +8.92 |
| 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 | 671 | +0bp | +30bp | +21bp | +0bp |
| Jun '16 | N/A | +114bp | +0bp | +0bp | +0bp |
| Jul '17 | 29.14 | +26bp | +0bp | +0bp | +0bp |
| Sep '20 | 14.02 | +4bp | +0bp | +0bp | +0bp |
| Sep '21 | 14.22 | +0bp | +0bp | +0bp | +0bp |
| Sep '22 | 12.32 | -1bp | +0bp | +0bp | +0bp |
| Feb '23 | 11.85 | +0bp | +0bp | +0bp | +0bp |

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.

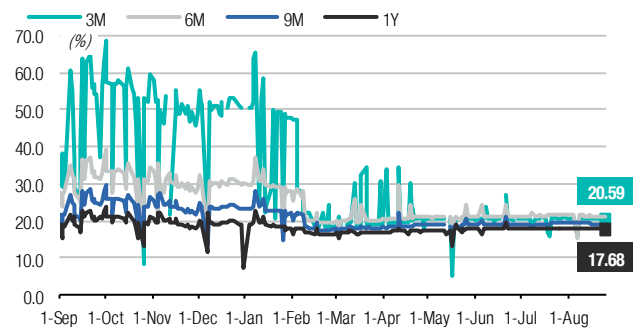
Chart page: Local bond market & Eurobond markets

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



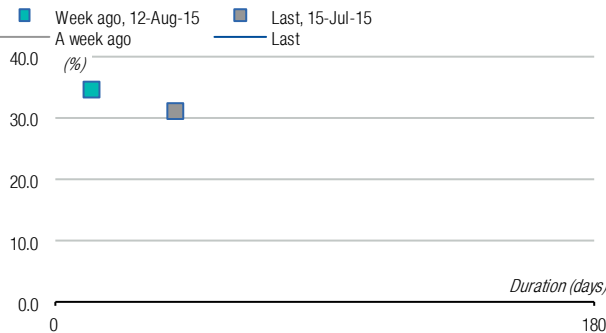
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



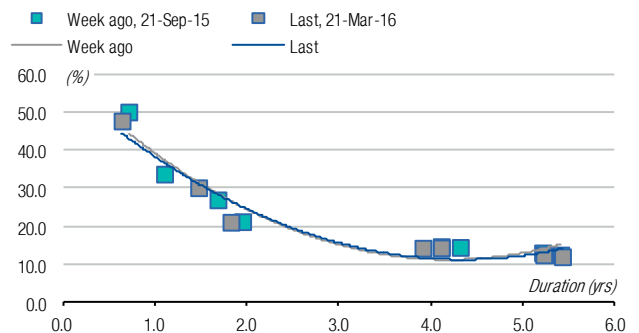
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 29 Aug 2016



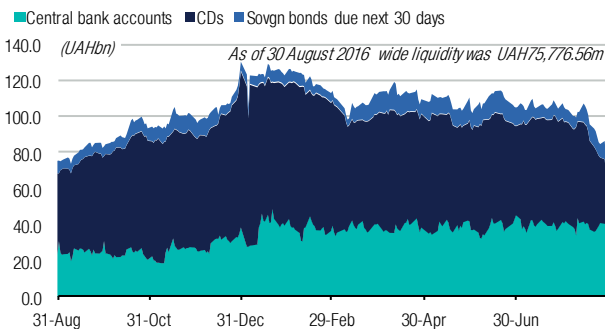
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 29 Aug 2016



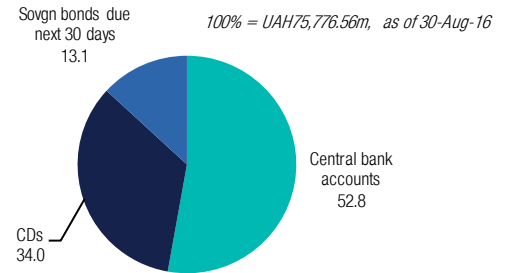
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



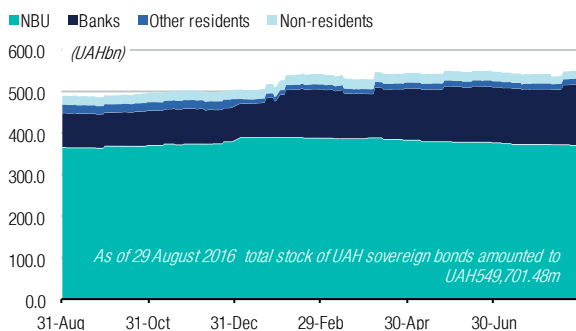
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 29 Aug 2016



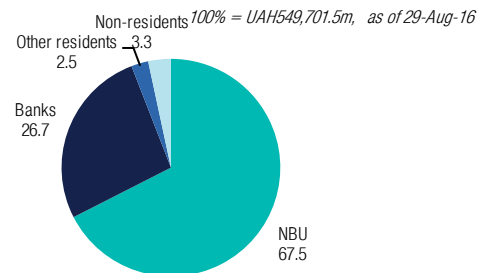
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 29 Aug 2016



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

Table 1. Ukrainian stocks (closing prices as of 29-Aug-2016)

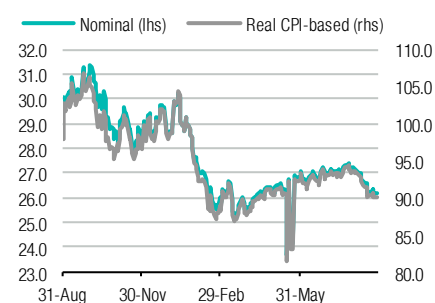
| Company | Bloomberg Ticker | Listing | Share price performance (% change) | | | | Valuation (US\$) | | | Free float (FF) & Liquidity | | | | | P/E | | | EV/EBITDA | | | EV/Sales | | | Ratios | | | |
|------------------------------|------------------|------------|------------------------------------|-------|-------|--------|------------------|------------|----------------|-----------------------------|--------|--------------------|------------------------------|-----------------------------|---------------------|--------------------|-------|-----------|-------|------|----------|-------|------|--------|-------|---------|-----------------|
| | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrenergo | CEEN UK | Kiev, UX | 8.59 UAH | +3.4 | +11.5 | +88.3 | +16.2 | 0.33 | 123.5 | 105.4 | 21.7 | 26.8 | 19.3 | 10.9 | 0.04 | 2,378 | 145.1 | 4.7 | 5.8 | 0.3 | 2.3 | 2.8 | 0.4 | 0.3 | 0.3 | 1.1 | 3.4 |
| Coal Energy | CLE PW | Warsaw | 0.50 PLN | +0.0 | -5.7 | -5.7 | -23.1 | 0.13 | 5.8 | 77.8 | 25.0 | 1.4 | 4.1 | 0.6 | 0.07 | 1,439 | Neg. | N/A | N/A | 10.7 | N/A | N/A | 0.7 | N/A | N/A | 0.2 | 56.9 |
| Donbasenergo | DOEN UK | Kiev, UX | 12.54 UAH | -1.7 | -5.4 | -20.4 | -35.8 | 0.49 | 11.5 | 22.8 | 14.2 | 1.6 | 1.3 | 1.5 | 0.08 | 1,283 | Neg. | N/A | N/A | 0.1 | N/A | N/A | 0.1 | N/A | N/A | 0.6 | 4.2 |
| Sadova Group | SGR PW | Warsaw | 0.20 PLN | +0.0 | -9.1 | -33.3 | -33.3 | 0.05 | 2.2 | 43.4 | 25.0 | 0.6 | 0.1 | 0.5 | 0.18 | 560 | Neg. | N/A | N/A | Neg. | N/A | N/A | 41.9 | N/A | N/A | N/A | 239.6 |
| Zakhidenergo | ZAEN UK | Kiev, PFTS | 59.70 UAH | +5.3 | -6.7 | -28.9 | -54.1 | 2.32 | 29.7 | 60.0 | 5.0 | 1.5 | 0.0 | 0.2 | 0.00 | 61,950 | Neg. | N/A | N/A | 0.1 | N/A | N/A | 0.1 | N/A | N/A | 0.4 | 11.6 |
| METALLURGY | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alchevsky Meta... | ALMK UK | Kiev, UX | 0.01 UAH | +0.0 | -3.0 | -46.1 | -54.5 | 0.00 | 6.0 | 2,406.4 | 3.9 | 0.2 | 0.0 | 0.1 | 0.04 | 2,666 | Neg. | N/A | N/A | 14.7 | N/A | N/A | 7.9 | N/A | N/A | N/A | 192.1 |
| Yasynivsky Cok... | YASK UK | Kiev, UX | 0.20 UAH | +0.0 | +0.0 | -13.0 | -37.5 | 0.01 | 2.1 | 2.7 | 9.0 | 0.2 | 0.0 | 0.0 | 0.00 | 51,270 | Neg. | N/A | N/A | Neg. | N/A | N/A | 0.0 | N/A | N/A | 0.0 | 0.0 |
| FOOD AND AGRIBUSINESS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AgroGeneration | ALAGR FP | EN Paris | 0.35 EUR | +0.0 | +2.9 | -12.5 | -25.5 | 0.39 | 38.8 | 77.3 | 34.0 | 13.2 | 21.5 | 38.9 | 0.38 | 264 | Neg. | 9.7 | 2.4 | 4.2 | 3.9 | 2.7 | 1.2 | 1.1 | 0.9 | 0.5 | 40.7 |
| Agroliga | AGL PW | Warsaw | 14.64 PLN | +0.0 | -8.4 | +28.6 | +38.1 | 3.77 | 5.8 | 7.0 | 16.7 | 1.0 | 0.0 | 1.0 | 0.13 | 753 | 1.9 | N/A | N/A | 1.9 | N/A | N/A | 0.4 | N/A | N/A | 0.5 | 10.7 |
| Agroton | AGT PW | Warsaw | 2.71 PLN | +10.6 | +32.8 | +168.3 | +160.6 | 0.70 | 15.1 | 29.1 | 26.2 | 4.0 | 101.1 | 83.9 | 4.18 | 24 | Neg. | N/A | N/A | 1.2 | N/A | N/A | 0.7 | N/A | N/A | 0.3 | 32.4 |
| Astarta Holdin... | AST PW | Warsaw | 51.94 PLN | -0.7 | +6.0 | +50.6 | +57.4 | 13.36 | 334.0 | 488.6 | 31.0 | 103.6 | 282.8 | 87.8 | 0.21 | 482 | 18.8 | 4.4 | 3.5 | 3.7 | 3.3 | 3.2 | 1.4 | 1.2 | 1.1 | 1.0 | 41.5 |
| IMC | IMC PW | Warsaw | 7.30 PLN | +1.4 | -4.5 | +22.3 | +37.7 | 1.88 | 58.8 | 144.9 | 23.9 | 14.0 | 3.6 | 14.5 | 0.06 | 1,624 | 4.0 | 2.9 | 2.6 | 2.2 | 2.7 | 3.2 | 1.0 | 1.0 | 0.8 | 1.0 | 56.8 |
| Kernel Holding... | KER PW | Warsaw | 57.85 PLN | -1.3 | -6.4 | +20.3 | +39.4 | 14.88 | 1,185.8 | 1,624.6 | 58.8 | 696.9 | 3,913.0 | 1,767.7 | 0.20 | 507 | 11.1 | 5.3 | 4.9 | 4.1 | 4.6 | 4.2 | 0.7 | 0.7 | 0.7 | 1.2 | 32.0 |
| KSG Agro | KSG PW | Warsaw | 2.04 PLN | +6.3 | -2.4 | +119.4 | +98.1 | 0.52 | 7.9 | 71.2 | 34.4 | 2.7 | 25.5 | 29.2 | 1.63 | 61 | Neg. | N/A | N/A | 7.1 | N/A | N/A | 2.2 | N/A | N/A | N/A | 67.4 |
| Milkiland | MLK PW | Warsaw | 2.04 PLN | +4.6 | -1.4 | +43.7 | +104.0 | 0.52 | 16.4 | 132.2 | 20.0 | 3.3 | 22.9 | 24.7 | 1.55 | 64 | Neg. | Neg. | Neg. | Neg. | 14.9 | 8.6 | 0.6 | 0.7 | 0.6 | 0.4 | 57.6 |
| CONSTRUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TMM | TR61 GF | Frankfurt | 0.01 EUR | +0.0 | +0.0 | -85.7 | -47.4 | 0.01 | 0.6 | 93.5 | 13.1 | 0.1 | 0.0 | 0.1 | 0.01 | 11,308 | 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 | 0.10 UAH | -0.5 | -2.3 | +38.0 | +12.7 | 0.00 | 248.7 | N/A | 3.8 | 9.5 | 2.5 | 4.4 | 0.03 | 3,537 | Neg. | 3.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0.9 | 14.4 |
| Ukrsotsbank | USCB UK | Kiev, UX | 0.06 UAH | +1.7 | N/A | N/A | N/A | 0.00 | 265.5 | N/A | 4.5 | 11.9 | 0.1 | N/A | N/A | N/A | Neg. | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0.3 | 24.3 |

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 30 Aug 2016)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 29 Aug 2016)

| | Last | Daily | Weekly | MoM | YTD |
|---|-----------|---------|---------|---------|---------|
| | chg (%) | chg (%) | chg (%) | chg (%) | chg (%) |
| USD/UAH MARKET (HRYVNIA per US DOLLAR) | | | | | |
| Spot mkt | 25.5400 | +0.24 | +0.91 | +2.94 | +6.29 |
| NBU avg | 25.4887 | +0.18 | +0.78 | +2.75 | +7.14 |
| Ttl vlm ¹ | 271.98 | -15.66 | -19.08 | -7.42 | -25.13 |
| \$ volume ² | 172.48 | -18.84 | -17.24 | -6.67 | -31.30 |
| NDF 3M | 26.7955 | +0.19 | +0.88 | +2.80 | +0.00 |
| NDF 6M | 28.0900 | +0.21 | +0.83 | +2.67 | +2.04 |
| NDF 1Y | 29.5900 | +0.20 | +0.78 | +2.53 | +16.06 |
| TRADE-WEIGHTED INDICES (TWIs, points) | | | | | |
| UAH nom'l | 26.167 | -0.12 | -0.32 | -3.54 | -8.49 |
| UAH real CPI | 90.067 | -0.12 | -0.32 | -3.54 | -8.07 |
| UAH real PPI | 121.483 | -0.12 | -0.32 | -3.54 | -6.83 |
| USD nom'l | 95.580 | +0.01 | +1.12 | +0.05 | -3.09 |
| FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs | | | | | |
| USD/RUB | 64.7343 | +0.23 | -0.12 | -1.84 | -10.74 |
| EUR/USD | 1.1189 | -0.08 | -1.16 | +0.13 | +3.01 |
| USD/CNY | 6.6830 | +0.20 | +0.49 | +0.72 | +2.92 |
| USD/PLN | 3.8825 | +0.27 | +1.98 | -0.42 | -1.03 |
| USD/TRY | 2.9506 | -0.10 | +0.30 | -1.28 | +1.14 |
| USD/BYR | 19,574.00 | +0.32 | +0.90 | -1.81 | +5.08 |
| USD/KZT | 336.8200 | -0.79 | -0.82 | -4.31 | -1.11 |
| OTHER MAJOR CURRENCIES | | | | | |
| USD/JPY | 101.9200 | +0.08 | +1.58 | -0.14 | -15.22 |
| GBP/USD | 1.3106 | -0.24 | -0.24 | -0.94 | -11.06 |
| USD/CHF | 0.9783 | +0.01 | +1.65 | +0.91 | -2.38 |
| AUD/USD | 0.7569 | +0.07 | -0.75 | -0.36 | +3.88 |
| USD/CAD | 1.3011 | +0.06 | +0.50 | -0.15 | -5.98 |
| USD/BRL | 3.2307 | -1.07 | +0.94 | -0.56 | -18.43 |
| USD/KRW | 1,124.97 | +1.00 | -0.12 | +0.42 | -4.26 |
| COMMODITIES | | | | | |
| Gold(\$/oz) | 1,323.50 | +0.17 | -1.16 | -2.04 | +24.69 |
| WTI crude ³ | 46.98 | -1.39 | -0.15 | +12.93 | +26.84 |
| Brent crd ³ | 48.69 | -0.90 | +1.18 | +18.73 | +36.20 |
| Urals crd ³ | N/A | +0.00 | +0.00 | +0.00 | +0.00 |
| TR/J CRB ⁴ | 184.43 | -0.90 | -1.41 | +1.89 | +4.71 |

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>).

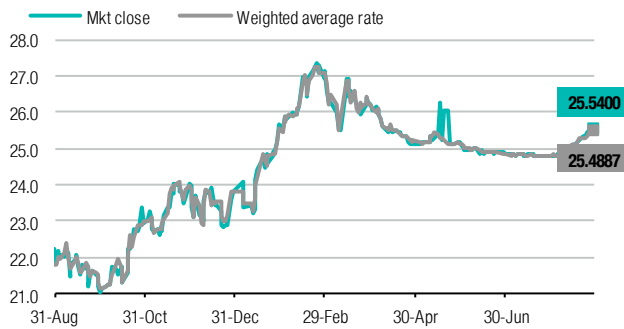
Section on FX market is continued on next page.

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.

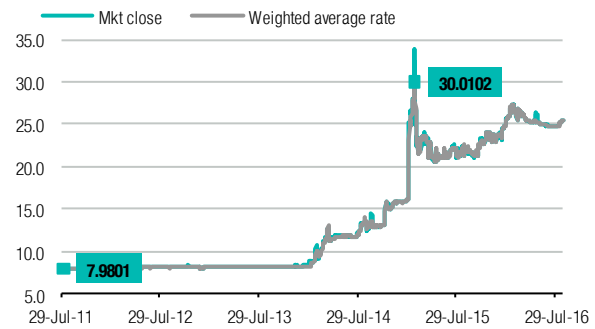
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

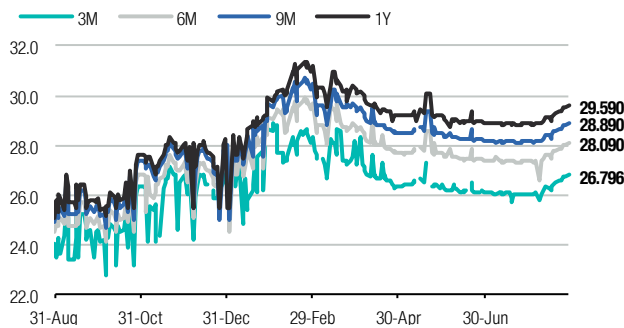


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

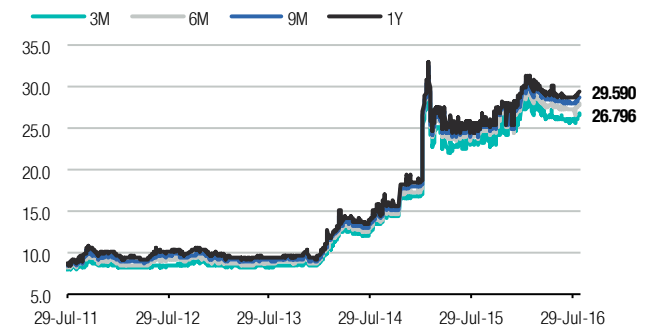


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

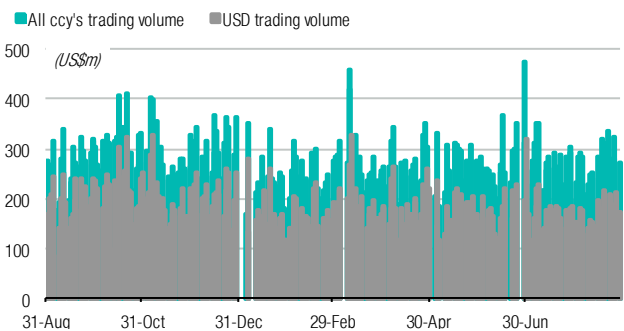


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

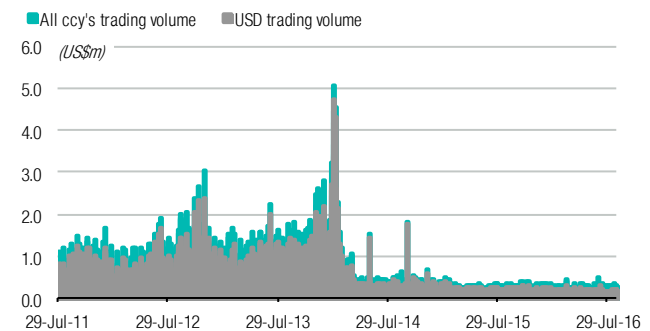


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

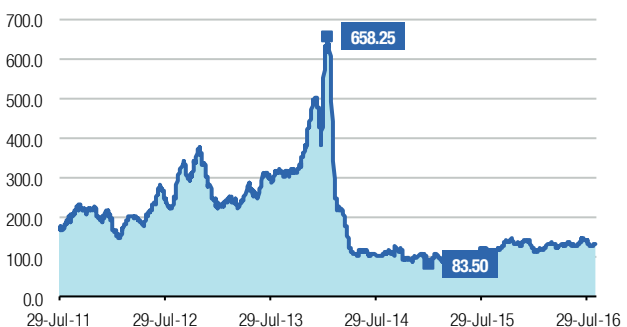


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.



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)

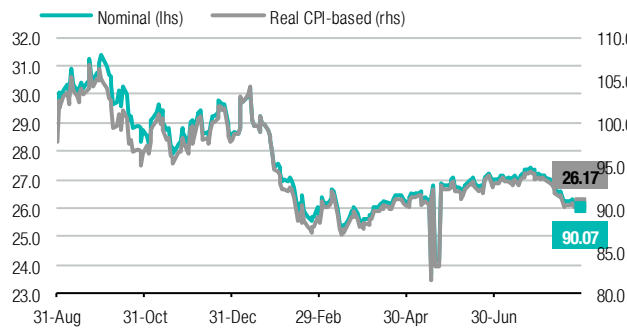


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

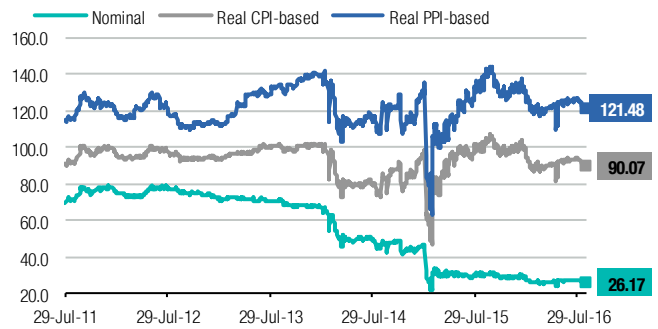
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



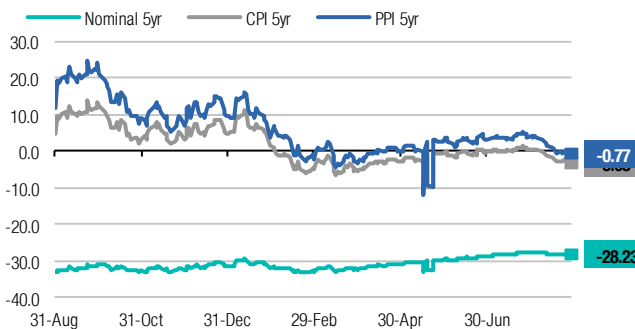
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

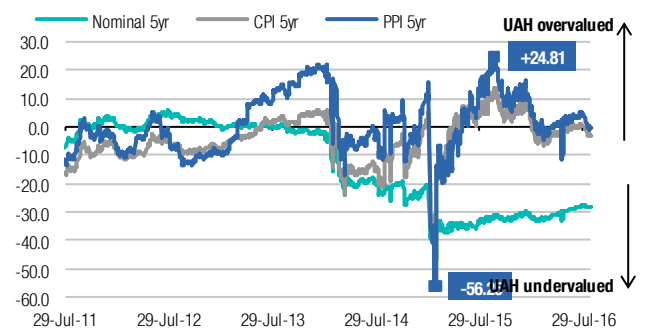


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

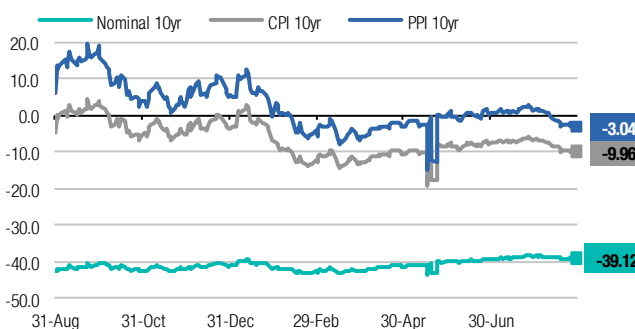


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

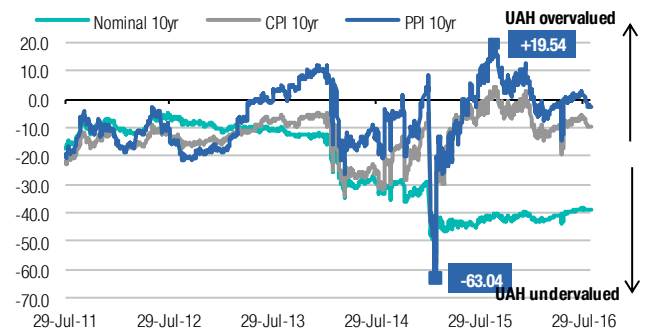


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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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