



Focus
Ukraine

Scope
Economics, bonds, equity & FX markets

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Daily Insight

City of Kyiv exchange participation

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WEDNESDAY, 9 DECEMBER 2015

UX Index (3 months to 9 Dec 2015)



Source: UX.

Key market indicators (as of 8 Dec 2015)

| | Last | Daily chg (%) | YTD chg (%) |
|--|----------|---------------|-------------|
| FX & MONEY RATES | | | |
| USD/UAH | 23.2460 | +0.41 | +46.94 |
| USD/UAH (1Y NDF) | 28.1250 | +10.31 | +52.44 |
| EUR/USD | 1.0863 | +0.24 | -10.21 |
| USD/RUB | 69.3258 | -0.17 | +14.14 |
| KievPRIME O/N (%) | 19.00 | +10bp | +10bp |
| KievPRIME 1M (%) | 22.25 | -5bp | +235bp |
| SOVEREIGN EUROBONDS: yields and spreads | | | |
| Ukraine 15, Eurobond (%) | N/A | +0bp | -5,343bp |
| Ukraine 17, Eurobond (%) | 29.14 | +26bp | +139bp |
| Ukraine 22, Eurobond (%) | 9.13 | +0bp | -712bp |
| Ukraine 23, Eurobond (%) | 8.93 | +0bp | -664bp |
| Ukraine 5Y CDS | 0bp | +0bp | -2,199bp |
| EQUITIES | | | |
| Stock market indices | | | |
| UX (Ukraine) | 700.19 | +0.02 | -32.24 |
| MSCI World | 401.14 | -1.00 | -3.83 |
| MSCI EM | 795.46 | -1.53 | -16.82 |
| RTS (Russia) | 787.82 | -0.70 | +0.09 |
| WIG-20 (Poland) | 1,814.88 | -2.68 | -21.64 |
| S&P 500 (USA) | 2,063.59 | -0.65 | +0.23 |

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

City of Kyiv exchange participation

At yesterday's City of Kiev bondholders' meeting, 92% of the holders of Kyiv-16 Eurobonds participated, from which 99% voted in favor of the exchange. Also, 57% of the holders Kyiv-15 Eurobonds voted in favor of participation in the exchange, while their deadline for acceptance was postponed to 16 December.

Investment implication: Almost all bonds of Kyiv-16 and at least 57% of Kyiv-15 will be exchanged - and more holders will likely join the deal. Currently market prices are nearly at the NPV of the new instruments and significantly better than they were before the bondholders' meeting was announced. In our view, this outcome is very positive and most bonds will be exchanged.

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Liquidity down slightly

Banking sector liquidity declined for the second day in a row, down UAH0.76bn to UAH88.77bn. Banks' correspondent accounts with the NBU fell UAH1.61bn to UAH24.33bn while total CDs outstanding was up only UAH0.85bn to UAH64.44bn.

Investment implications: Liquidity continued its usual decline seen during the second week of recent months, most likely due to FX outflows. This decline could continue through the end of this week. At the same time, we see that CDs outstanding remain high and have risen since the beginning of the month, indicating that liquidity should recover very soon.

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NBU debut auction results

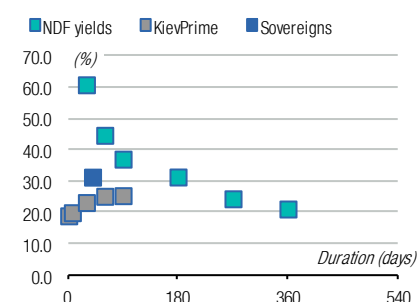
At yesterday's debut auction, the NBU sold UAH52.3m of VAT bonds maturing in 2019 (ISIN UA4000185557) at a weighted average yield of 19.12%. All bids with yields above the cut-off level of 19.25% were rejected, and these levels were below recent market quotes. The NBU rejected UAH155.1m of bids which had yields up to 23.8%. The lowest yield was 19%.

Investment implications: The NBU slightly broke the limits of the yield curve of five bonds which it publishes daily, as yesterday's yield was close to bonds with shorter durations. While the market signalled that the current cost of funds is higher than the NBU anticipated, yesterday's auction indicates that there is large demand for local currency government bonds and that the MoF should review its policy for domestic borrowing.

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Yield curve of the local bond market

(as of market close on 8 Dec 2015)



Sources: Bloomberg, Investment Capital Ukraine LLC.

Bond market indicators (as of 8 Dec 2015)

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

MONEY MARKET KIEV PRIME RATES (%)

| | | | | | |
|-----|-------|-------|-------|-------|--------|
| O/n | 19.00 | +10bp | -10bp | +44bp | +10bp |
| 1wk | 20.00 | -10bp | -10bp | +37bp | +100bp |
| 1m | 22.25 | -5bp | -45bp | +6bp | +235bp |
| 2m | 23.38 | -12bp | -42bp | -12bp | +338bp |
| 3m | 23.63 | -7bp | -37bp | +0bp | +363bp |

LIQUIDITY WIDE MEASUREMENT (UAHm)

| | | | | | |
|-----------------------|---------------|--------------|--------------|--------------|---------------|
| CB acc's ¹ | 24,329 | -6.22 | -9.68 | +29.16 | -26.83 |
| CDs ² | 64,442 | +1.34 | +5.03 | -6.64 | +308.2 |
| Sovgns ³ | 9,836 | +0.00 | -0.09 | +39.08 | +117.1 |
| Total | 98,606 | -0.77 | +0.48 | +3.87 | +84.07 |

HOLDERS OF UAH SOVEREIGN BONDS (UAHm)

| | | | | | |
|----------------------|----------------|--------------|--------------|--------------|--------------|
| C.bank | 374,282 | +0.00 | +0.00 | +0.93 | +17.65 |
| Banks | 83,983 | -0.10 | -0.94 | +1.22 | -10.11 |
| Resid's ⁴ | 21,175 | -1.32 | -0.42 | +0.34 | -13.75 |
| Non-res ⁵ | 22,378 | -0.72 | -1.79 | -0.95 | +3.87 |
| Total | 501,819 | -0.11 | -0.26 | +0.87 | +9.65 |

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 (%)

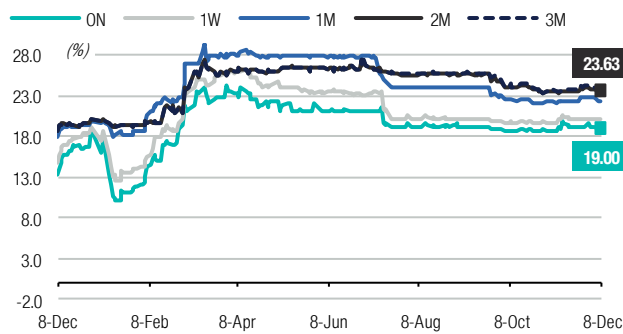
| | | | | | |
|---------|-------|--------|--------|--------|--------|
| CDS 5yr | 0 | +0bp | +0bp | +0bp | -22ppt |
| Jun '16 | 67.67 | +114bp | +114bp | +916bp | +31bp |
| Jul '17 | 29.14 | +26bp | +26bp | +195bp | +139bp |
| Sep '20 | 14.02 | +4bp | +4bp | +60bp | -483bp |
| Sep '21 | 14.22 | +0bp | +0bp | +1bp | -432bp |
| Sep '22 | 9.13 | +0bp | +0bp | -394bp | -712bp |
| Feb '23 | 8.93 | +0bp | +0bp | -266bp | -664bp |

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.

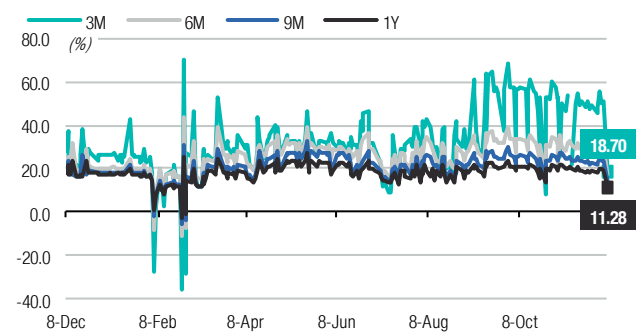
Chart page: Local bond market & Eurobond markets

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



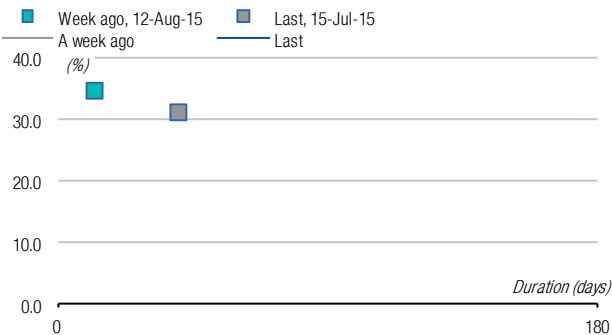
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



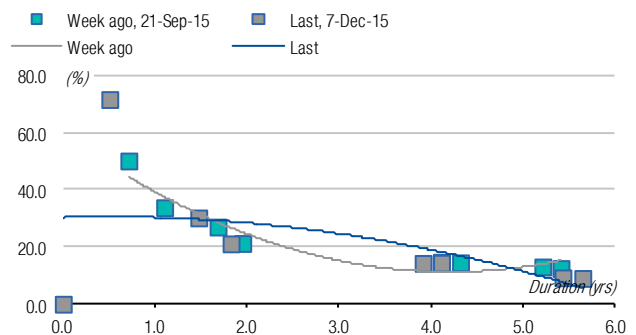
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 3. UAH sovereign yield curve (%) as of 8 Dec 2015



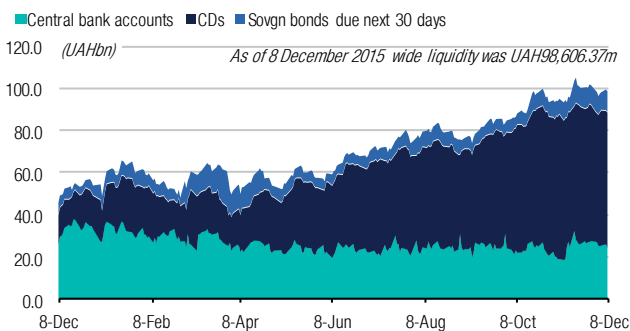
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 4. USD sovereign yield curve (%) as of 8 Dec 2015



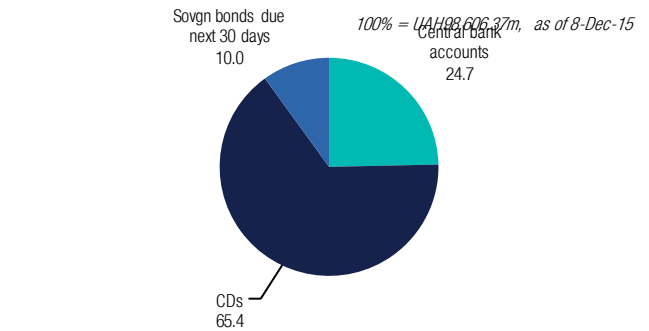
Sources: Bloomberg, Investment Capital Ukraine LLC.

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



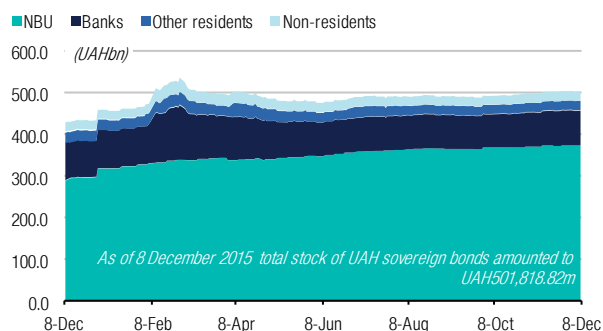
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

Chart 6. Breakdown of liquidity pool (%) as of 8 Dec 2015



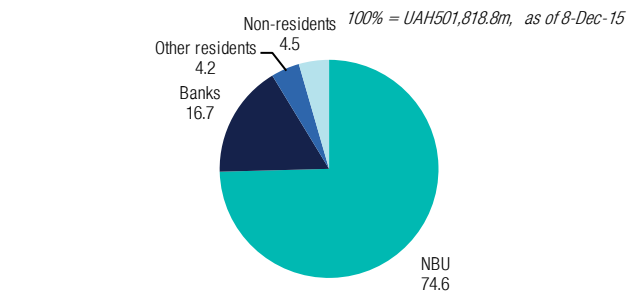
Sources: National Bank of Ukraine, Ministry of Finance of Ukraine, ICU.

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 8 Dec 2015



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

Table 1. Ukrainian stocks (closing prices as of 8-Dec-2015)

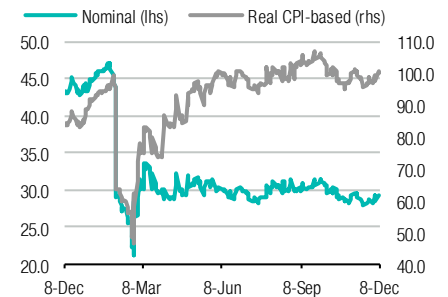
| Company | Bloomberg Ticker | Listing | Share price performance (% change) | | | | | Valuation (US\$) | | | Free float (FF) & Liquidity | | | | | P/E | | | EV/EBITDA | | | EV/Sales | | | Ratios | | |
|------------------------------|------------------|-------------|------------------------------------|-------|--------|--------|--------|------------------|----------------|---------|-----------------------------|--------------------|------------------------------|-----------------------------|---------------------|--------------------|------|-------|-----------|------|-------|----------|------|-------|--------|---------|-----------------|
| | | | 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 | 8.75 GBp | +0.0 | -11.4 | -12.5 | -18.6 | 0.13 | 30.4 | -18.7 | 40.2 | 12.2 | 0.0 | 7.4 | 0.07 | 1,464 | Neg. | N/A | N/A | 2.7 | N/A | N/A | Neg. | N/A | N/A | 0.4 | 15.3 |
| Centrenerg | CEEN UK | Kiev, UX | 4.48 UAH | +0.0 | -12.2 | -40.6 | -39.4 | 0.20 | 72.9 | 60.7 | 21.7 | 15.8 | 10.2 | 10.9 | 0.07 | 1,507 | 23.4 | Neg. | 4.3 | 0.2 | Neg. | 1.7 | 0.2 | 0.2 | 0.1 | 0.7 | 4.2 |
| Coal Energy | CLE PW | Warsaw | 0.54 PLN | +0.0 | -19.4 | -12.9 | -26.0 | 0.14 | 6.1 | 77.6 | 25.0 | 1.5 | 0.3 | 1.0 | 0.03 | 3,127 | 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 | 16.30 UAH | +0.0 | +0.1 | -50.6 | -45.3 | 0.72 | 17.0 | 27.9 | 14.2 | 2.4 | 2.1 | 2.1 | 0.10 | 966 | 3.8 | Neg. | N/A | 0.0 | N/A | N/A | 0.1 | 0.2 | N/A | 0.3 | 13.6 |
| JXK Oil & Gas | JXK LN | London | 27.75 GBp | +0.0 | -2.6 | +131.3 | +126.5 | 0.42 | 71.7 | 82.4 | 47.2 | 33.8 | 0.0 | 83.1 | 0.07 | 1,486 | Neg. | Neg. | Neg. | Neg. | 3.2 | 3.3 | 0.6 | 0.8 | 1.1 | 0.3 | 9.9 |
| Regal Petroleum | RPT LN | London | 3.78 GBp | +0.0 | -11.2 | +20.8 | -20.9 | 0.06 | 18.2 | -15.2 | 80.9 | 14.7 | 0.0 | 1.0 | 0.00 | 57,830 | 3.2 | N/A | N/A | Neg. | N/A | N/A | Neg. | Neg. | N/A | 0.3 | 0.0 |
| Zakhidenergo | ZAEN UK | Kiev, PFTS | 85.00 UAH | +0.0 | +4.9 | -42.6 | -44.3 | 3.74 | 47.9 | 82.2 | 5.0 | 2.4 | 0.0 | 0.7 | 0.03 | 2,955 | Neg. | N/A | N/A | 0.1 | N/A | N/A | 0.2 | N/A | N/A | 0.5 | 11.6 |
| METALLURGY | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alchevsky Meta... | ALMK UK | Kiev, UX | 0.01 UAH | +0.0 | -0.9 | -21.4 | -28.8 | 0.00 | 12.9 | 1,821.8 | 3.9 | 0.5 | 0.0 | 0.2 | 0.02 | 5,691 | 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 | 1.07 UAH | +0.0 | -1.1 | -38.2 | -40.4 | 0.05 | 9.2 | 8.2 | 4.0 | 0.4 | 1.3 | 0.9 | 0.29 | 348 | 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 | 0.42 UAH | +0.0 | -18.8 | -44.2 | -37.9 | 0.02 | 77.0 | 15.8 | 4.1 | 3.2 | 0.1 | 4.2 | 0.29 | 348 | 1.9 | 1.5 | N/A | 0.0 | N/A | N/A | 0.0 | 0.0 | N/A | 0.1 | 0.0 |
| Ferrexpo PLC | FXPO LN | London | 23.00 GBp | +1.1 | -30.8 | -53.0 | -62.3 | 0.35 | 203.7 | 860.3 | 22.4 | 45.6 | 0.6 | 295.6 | 0.55 | 182 | 1.1 | 1.6 | 4.6 | 2.7 | 3.3 | 4.3 | 0.6 | 0.8 | 0.9 | 0.4 | 61.1 |
| Yasynivsky Cok... | YASK UK | Kiev, UX | 0.33 UAH | +0.0 | +142.6 | +17.9 | +10.4 | 0.01 | 4.0 | 4.6 | 9.0 | 0.4 | 1.2 | 2.1 | 0.14 | 714 | Neg. | Neg. | N/A | Neg. | N/A | N/A | 0.1 | 0.0 | N/A | 0.1 | 0.0 |
| Yenakievo Steel | ENMZ UK | Kiev, UX | 15.97 UAH | +0.0 | +0.4 | -23.8 | -23.8 | 0.70 | 7.4 | -7.8 | 9.4 | 0.7 | 0.7 | 1.2 | 0.06 | 1,577 | Neg. | Neg. | N/A | Neg. | Neg. | N/A | Neg. | Neg. | N/A | 0.2 | 0.0 |
| FOOD AND AGRIBUSINESS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AgroGeneration | ALAGR FP | EN Paris | 0.42 EUR | +0.0 | -2.3 | -2.3 | -10.6 | 0.46 | 45.2 | 100.0 | 34.0 | 15.4 | 0.0 | 60.3 | 0.14 | 722 | Neg. | Neg. | 2.8 | 4.9 | 4.9 | 3.3 | 1.4 | 1.5 | 1.2 | 0.6 | 83.5 |
| Agroliga | AGL PW | Warsaw | 12.78 PLN | +0.0 | -17.5 | +42.0 | +16.3 | 3.21 | 4.9 | 5.7 | 16.7 | 0.8 | 2.0 | 1.4 | 0.12 | 807 | 1.4 | N/A | N/A | 1.6 | N/A | N/A | 0.3 | N/A | N/A | 0.5 | 5.7 |
| Agroton | AGT PW | Warsaw | 0.97 PLN | +0.0 | -19.2 | -21.1 | -31.2 | 0.24 | 5.3 | 32.0 | 26.2 | 1.4 | 6.7 | 11.1 | 0.44 | 226 | Neg. | N/A | N/A | 1.4 | N/A | N/A | 0.5 | N/A | N/A | 0.1 | 33.4 |
| Astarta Holdin... | AST PW | Warsaw | 33.78 PLN | +0.0 | -12.3 | +68.9 | +82.7 | 8.50 | 212.4 | 434.4 | 31.0 | 65.9 | 16.4 | 49.4 | 0.04 | 2,511 | Neg. | 13.9 | 4.0 | 3.6 | 3.8 | 3.9 | 1.1 | 1.1 | 1.1 | 0.9 | 49.6 |
| Avangard | AVGR LI | London Intl | 1.59 USD | +0.0 | +34.2 | -22.4 | -64.7 | 1.59 | 101.6 | 392.3 | 21.7 | 22.0 | 0.0 | 56.7 | 0.03 | 3,982 | Neg. | Neg. | Neg. | 3.0 | 8.2 | 3.8 | 0.9 | 1.4 | 1.1 | 0.3 | 33.1 |
| Kernel Holding... | KER PW | Warsaw | 45.50 PLN | +0.4 | -12.5 | +59.9 | +54.2 | 11.45 | 912.0 | 1,293.5 | 58.8 | 536.0 | 1.1 | 2,070.6 | 0.51 | 198 | 8.5 | 4.5 | 4.5 | 3.3 | 3.7 | 3.8 | 0.6 | 0.5 | 0.5 | 1.0 | 31.6 |
| KSG Agro | KSG PW | Warsaw | 0.96 PLN | +0.0 | -5.9 | -14.3 | -20.0 | 0.24 | 3.6 | 66.9 | 34.4 | 1.2 | 1.1 | 8.2 | 0.33 | 307 | Neg. | N/A | N/A | 6.7 | N/A | N/A | 2.1 | N/A | N/A | N/A | 67.4 |
| MHP | MHPC LI | London Intl | 9.55 USD | +0.0 | +0.4 | +3.8 | -5.9 | 9.55 | 1,009.1 | 2,181.8 | 22.3 | 225.2 | 173.3 | 298.7 | 0.17 | 597 | Neg. | 4.4 | 3.7 | 3.9 | 4.4 | 4.4 | 1.6 | 1.7 | 1.7 | 1.5 | 53.0 |
| Milkiland | MLK PW | Warsaw | 1.45 PLN | +0.0 | -26.8 | -2.0 | -24.5 | 0.36 | 11.4 | 117.4 | 20.0 | 2.3 | 2.1 | 40.7 | 1.26 | 80 | Neg. | Neg. | Neg. | 8.5 | 6.5 | 6.6 | 0.4 | 0.5 | 0.5 | 0.1 | 42.5 |
| TRANSPORTATION | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KDM Shipping | KDM PW | Warsaw | 4.58 PLN | +0.0 | -3.4 | +13.1 | -23.7 | 1.15 | 10.7 | -3.9 | 10.9 | 1.2 | 1.3 | 0.3 | 0.01 | 13,116 | Neg. | N/A | N/A | 7.6 | N/A | N/A | Neg. | N/A | N/A | 0.2 | 7.9 |
| CONSTRUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TMM | TR61 GF | Frankfurt | 0.01 EUR | +55.6 | -6.7 | -82.5 | -88.3 | 0.02 | 0.8 | 93.7 | 13.1 | 0.1 | 0.3 | 0.1 | 0.35 | 288 | 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 | 0.08 UAH | +0.0 | +6.0 | -19.8 | -22.5 | 0.00 | 101.7 | N/A | 3.8 | 3.9 | 6.1 | 7.4 | 0.25 | 395 | N/A | 5.4 | 5.3 | N/A | N/A | N/A | N/A | N/A | N/A | 0.6 | N/A |
| Ukrsotsbank | USCB UK | Kiev, UX | 0.09 UAH | +0.0 | +4.4 | -27.8 | -32.9 | 0.00 | 102.2 | N/A | 4.5 | 4.6 | 0.0 | 0.6 | 0.01 | 10,109 | 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

ICU's UAH trade-weighted indices

(Last 12-month history to 9 Dec 2015)



Source: Investment Capital Ukraine LLC.

FX market indicators (as of 8 Dec 2015)

| | Last | Daily | Weekly | MoM | YTD |
|---|-----------|---------|---------|---------|---------|
| | chg (%) | chg (%) | chg (%) | chg (%) | chg (%) |
| USD/UAH MARKET (HRYVNIA per US DOLLAR) | | | | | |
| Spot mkt | 23.2460 | +0.41 | -3.02 | +2.26 | +46.94 |
| NBU avg | 22.9132 | -2.29 | -3.89 | +1.17 | +45.31 |
| Ttl vlm ¹ | 283.24 | +17.38 | +7.83 | -29.10 | -34.27 |
| \$ volume ² | 199.85 | +19.54 | +20.23 | -38.77 | -43.59 |
| NDF 3M | 24.2060 | +0.00 | -9.86 | -5.26 | +43.66 |
| NDF 6M | 25.0838 | +0.00 | -8.30 | -3.71 | +44.16 |
| NDF 1Y | 28.1250 | +10.31 | +0.08 | +2.27 | +52.44 |
| TRADE-WEIGHTED INDICES (TWIs, points) | | | | | |
| UAH nom'l | 29.204 | -0.45 | +3.39 | +0.15 | -34.32 |
| UAH real CPI | 99.914 | -0.45 | +3.39 | +0.15 | +15.45 |
| UAH real PPI | 131.368 | -0.45 | +3.39 | +0.15 | +11.55 |
| USD nom'l | 98.520 | -0.14 | -1.28 | +0.45 | +9.14 |
| FX RATES OF KEY CURRENCIES THAT SHAPE UAH's TWIs | | | | | |
| USD/RUB | 69.3258 | -0.17 | +3.99 | +8.77 | +14.14 |
| EUR/USD | 1.0863 | +0.24 | +2.16 | -0.10 | -10.21 |
| USD/CNY | 6.4181 | +0.15 | +0.30 | +1.06 | +3.43 |
| USD/PLN | 3.9795 | -0.23 | -1.17 | +1.86 | +12.30 |
| USD/TRY | 2.9150 | +0.07 | +0.84 | +1.41 | +24.84 |
| USD/BYR | 18,305.00 | +0.74 | +1.26 | +4.72 | +66.41 |
| USD/KZT | 308.0800 | +0.35 | +0.14 | +0.33 | +68.95 |
| OTHER MAJOR CURRENCIES | | | | | |
| USD/JPY | 123.0900 | -0.23 | +0.18 | +0.99 | +2.76 |
| GBP/USD | 1.5051 | -0.03 | -0.21 | -0.95 | -3.38 |
| USD/CHF | 0.9992 | -0.09 | -2.60 | +0.38 | +0.49 |
| AUD/USD | 0.7231 | -0.50 | -1.26 | +1.10 | -11.55 |
| USD/CAD | 1.3514 | +0.11 | +1.17 | +2.62 | +16.29 |
| USD/BRL | 3.7966 | +0.75 | -1.46 | +0.74 | +42.86 |
| USD/KRW | 1,178.52 | +0.90 | +1.76 | +3.20 | +8.02 |
| COMMODITIES | | | | | |
| Gold(\$/oz) | 1,074.31 | +0.26 | +0.47 | -3.09 | -9.33 |
| WTI crude ³ | N/A | -100.0 | -100.0 | +0.00 | -100.0 |
| Brent crd ³ | 40.27 | +0.90 | -7.38 | -14.34 | -27.78 |
| Urals crd ³ | N/A | +0.00 | +0.00 | +0.00 | +0.00 |
| TR/J CRB ⁴ | 177.39 | -0.66 | -3.80 | -7.14 | -22.86 |

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>).

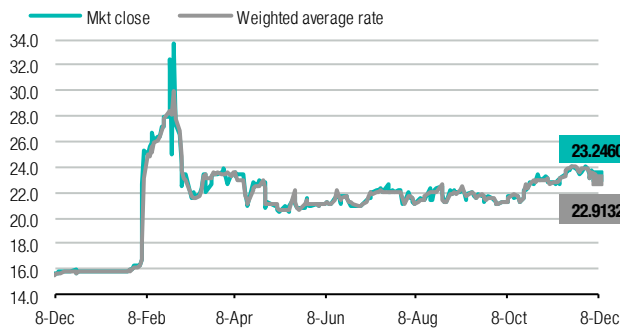
Section on FX market is continued on next page.

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.

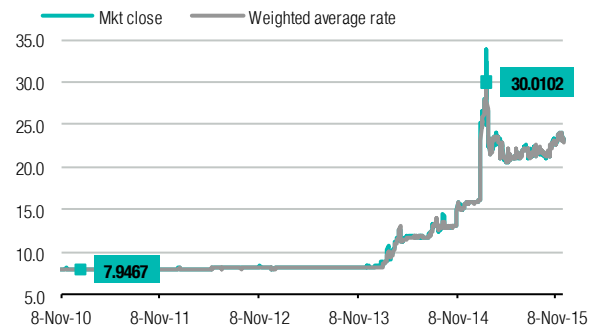
Sources: Bloomberg, Investment Capital Ukraine LLC.

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)

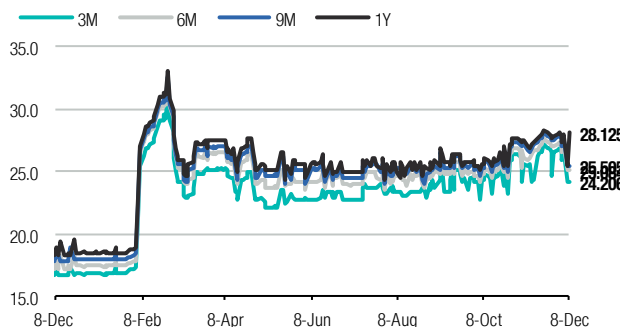


Sources: National Bank of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

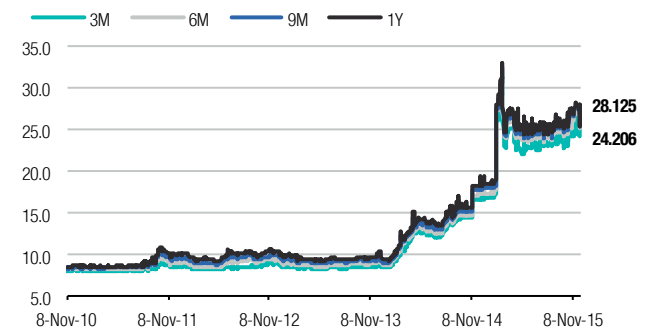


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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

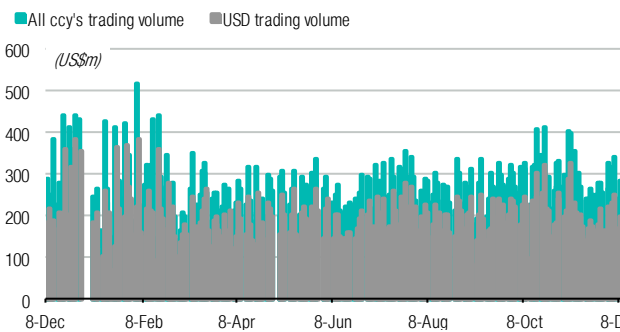


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

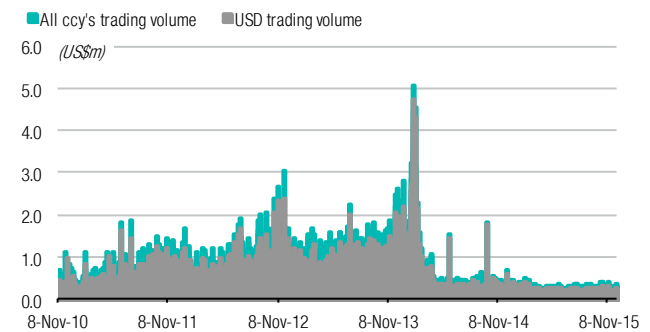


Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

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)

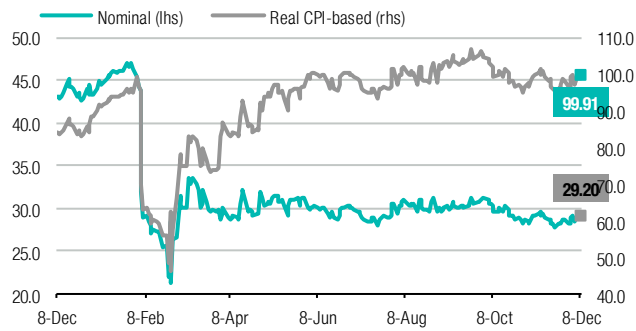


Note: * 30-day moving average; The boxes of the right chart show high and low values. Sources: NBU, State Statistics Service of Ukraine, Bloomberg, Investment Capital Ukraine LLC.

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

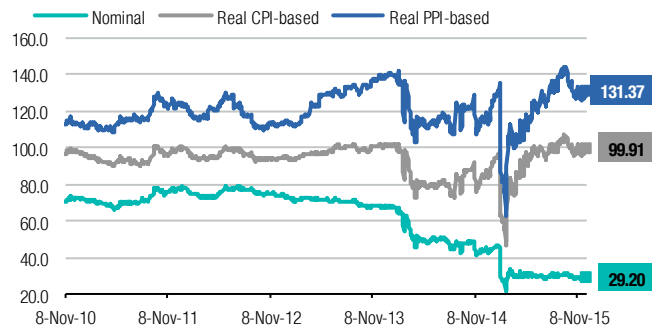
The following charts depict ICU's Ukrainian hryvnia trade-weighted indices which were calculated in accordance with methodology (for more details visit <http://www.icu.ua/en/research/currency-indices>).

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



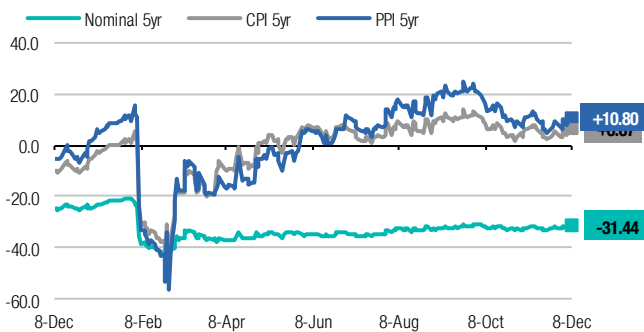
Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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

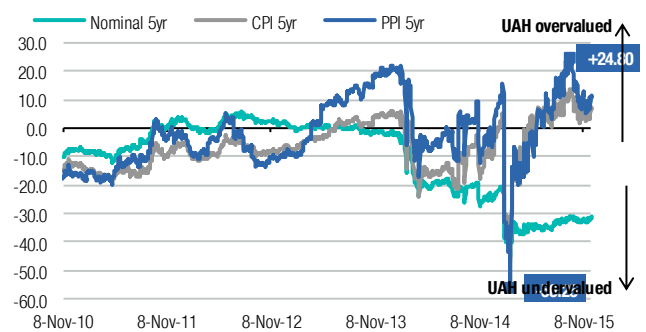


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

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)

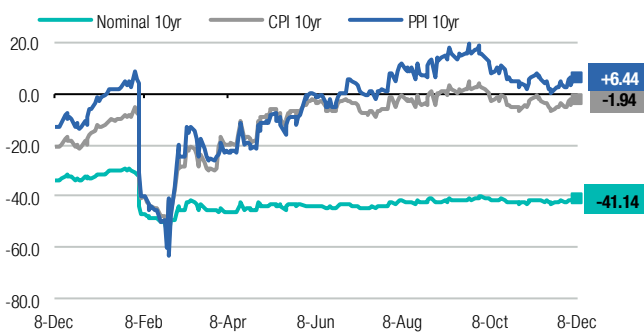


Note: The boxes indicate the last values of the depicted indicators.
Source: Investment Capital Ukraine LLC.

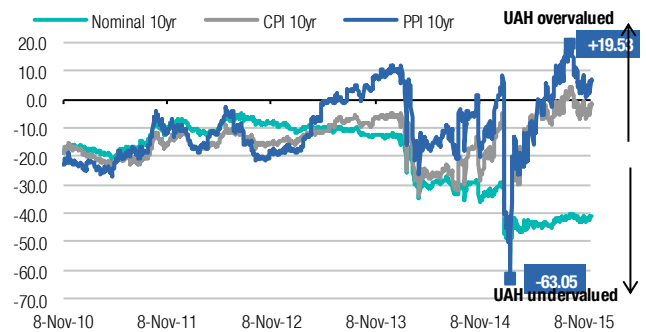


Note: the boxes indicate the high and low values of CPI-based TWI.
Source: Investment Capital Ukraine LLC.

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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