

# Bond Market Insight

## Weekly review: New borrowings and conditions

MONDAY, 20 JANUARY, 2014

RESEARCH INSIGHT

**Although conditions have changed little since the end of last year, the new financing from Russia has helped push Ukrainian Eurobond spreads to tighten and yields to decline. Although the domestic debt debut auction was quite active and attracted market demand, the MoF still refuses to accept higher rates.**

**Domestic bond market.** Banking sector liquidity remained high last week, causing money market interest rates to decline and increased the attractiveness of short-term government debt. However, the MoF was not ready to pay higher interest on 9-month debt and rejected the majority of market demand. While no principal repayments have come due yet, this week the MoF will try to refinance all debt repayments, especially those approved in conjunction with the state budget last week prior to which could not have been issued.

**Eurobond market.** YTM's of Ukrainian Eurobonds slightly declined last week due to the decline in benchmark yields and spreads tightening. New US statistics and the approved state budget in Ukraine were the main reasons for the improvement in conditions.

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### Key market indicators (as of 17 Jan 2014)

	Last close	Weekly chg (%)	YTD chg (%)
<b>Currencies</b>			
USD/UAH (spot)	8.3700	1.03	1.58
USD/UAH (1Y NDF)	9.2850	-1.22	-1.43
<b>Rates, yields &amp; spreads (%)</b>			
Kiev Prime ON	2.14	-30bp	-566bp
Kiev Prime 3M	11.88	-150bp	-412bp
UAH NDF 1Y	11.57	-255bp	-342bp
Ukraine CDS 5Y	695bp	-21bp	-122bp
Libor USD 1yr	0.57	-1bp	-1bp
UST 2yr	0.37	0bp	-1bp
UST 10yr	2.82	-4bp	-21bp
UKRAINE 17	7.70	-52bp	-186bp
UKRAINE 23	8.39	-24bp	-65bp
<b>Money market data (UAHbn)</b>			
Accounts at NBU	29.64	-0.74	-9.37
NBU CDs outstanding	7.34	22.16	941.70
<b>Local currency bond market data (UAHbn)</b>			
Govt bond outstanding	253.52	0.46	1.77
Held by			
NBU	147.05	0.00	1.52
Banks	81.66	0.86	1.86
Other residents	12.84	3.67	3.56
Non-residents	11.97	0.00	2.32

Notes: chg – percentage change; bp – basis points.

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

### Research team

**Alexander Valchyshen**  
**Alexander Martynenko**  
**Taras Kotovych**

# Market update and news

## Domestic bond market

### Liquidity high with reallocation of funds

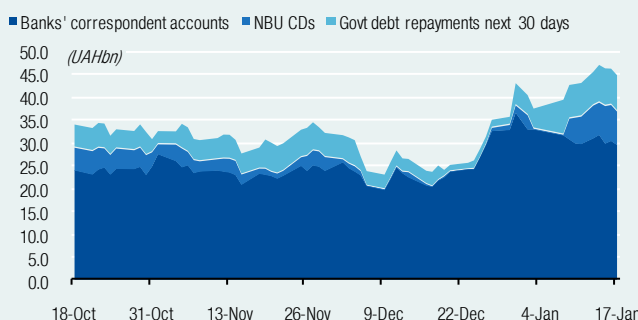
*Liquidity was stable last week and declined due to the impact of the FX market*

During last week, liquidity was stable as supported by the reallocation of funds from banks' correspondent accounts with the NBU to ON CDs and vice versa. Broader banking sector liquidity opened the week at a high level, rose on Tuesday, and then declined through last Friday. There were minor injections into liquidity and the main impact on liquidity was the FX market whereby trading volumes significantly rose to above US\$1.8bn last Wednesday and Thursday.

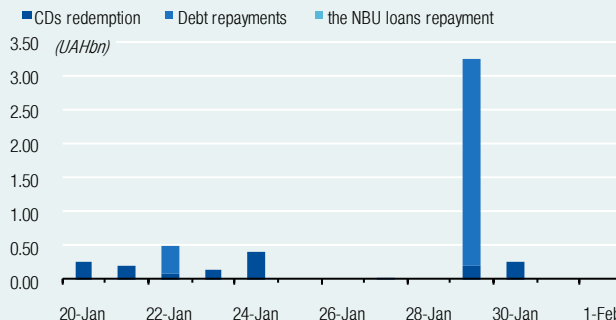
*All indicators were stable last week*

Banks' correspondent accounts with the NBU began last week from UAH31.08bn but through the end of the week declined to UAH29.64bn as CDs outstanding remained above UAH7.0bn after beginning last week at 7.20bn, rising last Wednesday to UAH8.25bn and declining through last Friday to UAH7.34bn. Total local currency debt repayments scheduled for the next 30 days was stable at above UAH7.0bn and rose to UAH7.60bn at the end of last week.

**Chart 1. Banking sector liquidity (UAHbn) (last 3 months)**



**Chart 2. Future redemptions of CDs and UAH state bonds (UAHbn)**



This week, only small volumes are scheduled for inflows into local currency. The main debt repayments will be in US dollars on Wednesday and we do not anticipate large movements due to the primary auction and debt repayments. Borrowings will be made mostly in US dollars to refinance repayments. The main impact on liquidity will be monthly tax payments scheduled for this week.

### Last week's primary auction

*Debut primary auction saw market demand for short-term bonds...*

The debut primary auction of 2014 was characterized by partial market demand. Under the impact of high banking sector liquidity, investors decided to focus on short-term primary market bonds, of which the MoF only accepted one bid, and that being at the lowest interest rate. The MoF offered three bonds, including the routine 5-year and 7-year bonds in addition to a 9-month zero-coupon bond last offered in May.

**...which was submitted  
for 9-month bonds but  
was mostly rejected**

The 7-year bond received no bids while the 5-year bond received five bids totaling UAH1.13bn in demand, most likely supported by the NBU under its domestic QE program, which the MoF accepted. The 9-month bond received 14 bids for total demand of UAH435.0m at interest rates ranging from 8.75% to 11.75%, of which the MoF accepted only one bid for UAH25.0m (par value) at the lowest interest rate of 8.75% (unchanged from similar bonds last sold in April 2013).

**Small repayments and  
the yet-to-be approved  
state budget forced the  
MoF to not sell a lot of  
new bonds**

The MoF appeared unwilling to pay higher interest rates for borrowings, most likely in light of Parliament not having yet approved the state budget for this year and its being limited only to refinancing all new borrowings maturing debt principal repayments. Although a mere UAH342m in interest repayments is scheduled for last week, the debut principal repayment is scheduled for this Wednesday (see comment below). For the entire month of January, the MoF has to repay UAH5.99bn in principal repayments, including UAH4.59bn of domestic debt due for redemption.

### Primary auction announcement

**Six bonds will be offered  
tomorrow at the  
auction...**

The MoF decided to offer more short-term bonds tomorrow in addition to the original schedule, adding a 6-month bond offering. The MoF will offer two zero-coupon bonds with 6-month and 9-month maturities, the routine 5-year and 7-year bonds, and a 2-year USD-denominated bond. All these bonds are announced to be sold the same day, so the MoF will receive local currency funds the same day and FX funds on Wednesday.

**...to refinance large debt  
repayments scheduled  
for Wednesday**

The MoF is going to use proceeds from this auction for UAH2.37bn in debt repayments scheduled for Wednesday, including UAH1.93bn (US\$0.23bn) in principal repayments. Significant needs in funds for repayments while the state budget law does not take effect until Tuesday forced the MoF to amend the usual procedure. Demand for this auction will be from all kinds of participants, from market players (especially for USD-denominated bonds) to banks which will submit bids supported by domestic QE.

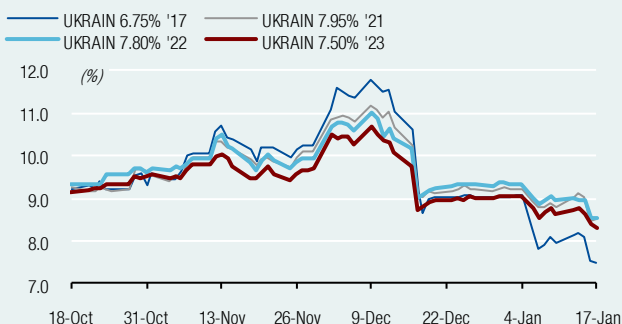
## Eurobonds market

### Conditions for Ukraine slightly improve

**Yields declined following  
US and local news...**

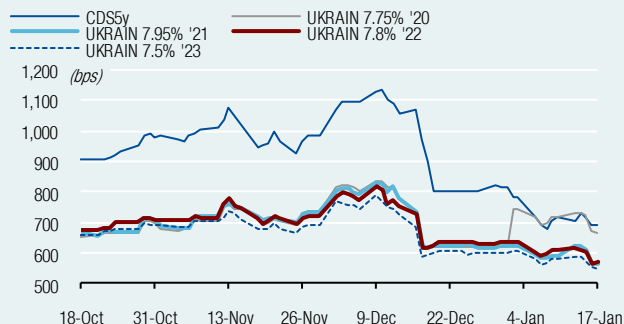
YTM of Ukrainian Eurobonds continued to decline and spreads tightened more last week, from one side due to the decline in YTM of US Treasuries on new US statistics, while from another on last Thursday's approval of the state budget by the parliament. Both events improved anticipations for the nearest future.

**Chart 3. YTM of some Ukrainian Eurobonds**



Source: Bloomberg, Investment Capital Ukraine LLC.

**Chart 4. Ukrainian Eurobonds spreads and 5-year CDS**



Source: Bloomberg, Investment Capital Ukraine LLC.

***...to 6.21-8.55% with  
spreads tightening to  
below 700bp***

Last week, spreads tightened to below 700bp and the 5-year Ukrainian CDS also declined to 695bp. YTM's declined across the yield curve to 6.21%-8.55%, excluding the recent Russian Eurobond financing, while at the beginning of last week yields were above 7% at the short-end of the yield curve and above 9.0% at the long-end of it.

# Appendixes

The following pages contain tabular information on the local fixed-income market. There are tables that detail government debt repayments such as a weekly schedule for current year and quarterly schedule for next 5 years.

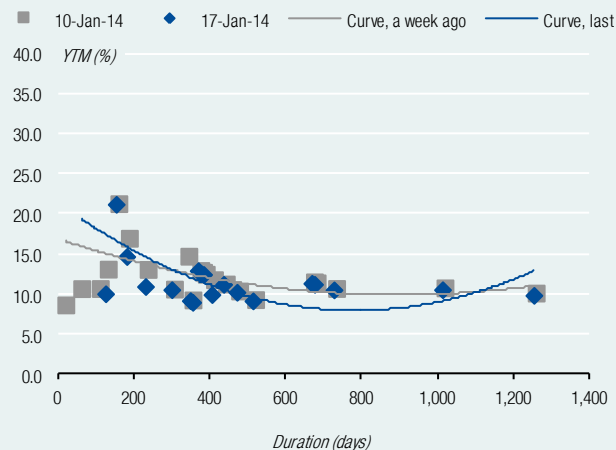
## UAH bond market

Table 1. Ukrainian local-currency government bonds as of 17 Jan 2014

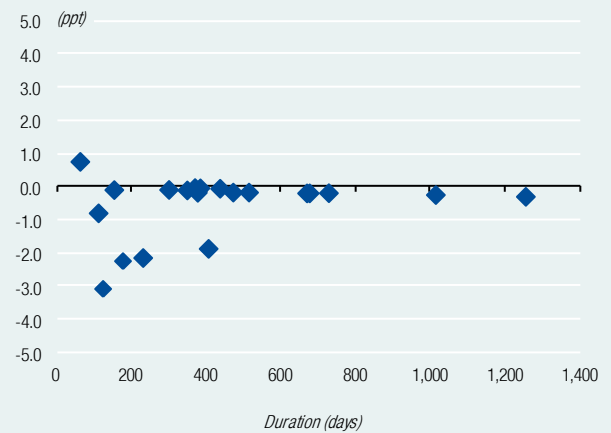
Ticker	Volume (UAHm)	Coupon rate (%)	Maturity	Price (% of par)	YTM (%)	Weekly price chg (bp)	Weekly yield chg (bp)	Duartion (years)	1W daily avg turnover (UAHm)	1W total turnover (UAHm)	Total turnover (UAHm)	Liquidity ratio*
140362	1,429.81	9.2	21-May-14	101.241	10.08	118	-307	0.34	53.03	212.11	1,480.54	1.04
157135	2,460.78	7.97	23-Jul-14	100.898	14.72	127	-228	0.49	0.00	0.00	168.98	0.07
158794	1,268.06	7.5	10-Sep-14	100.681	10.99	143	-213	0.63	0.00	0.00	1,562.08	1.23
149231	1,021.88	8.32	19-Nov-14	99.750	10.59	25	-8	0.82	19.91	139.37	1,639.88	1.60
151278	1,231.16	8.5	7-Jan-15	99.750	9.23	25	-9	0.95	3.87	3.87	954.59	0.78
000999	161.08	9.6	14-Jan-15	100.750	9.02	38	-574	0.97	0.00	0.00	0.00	0.00
155485	1,828.85	8.09	11-Feb-15	99.125	12.96	25	-2	1.01	28.74	114.96	5,102.72	2.79
157143	418.50	8.02	18-Feb-15	99.125	12.60	38	-16	1.03	0.00	0.00	0.00	0.00
157127	413.61	8.02	25-Feb-15	99.000	12.49	25	-3	1.05	0.00	0.00	2,039.28	4.93
160642	1,690.13	7.75	18-Mar-15	100.431	9.98	206	-186	1.11	34.23	205.37	5,170.46	3.06
142699	2,609.51	9.45	22-Apr-15	100.500	11.26	25	-4	1.19	35.78	250.43	10,001.50	3.83
142681	453.35	4.8	6-May-15	103.688	-4.06	19	-78	0.30	0.00	0.00	0.00	0.00
141071	1,268.49	9.45	27-May-15	100.625	10.27	38	-16	1.29	30.07	210.49	6,017.24	4.74
142673	1,464.75	4.5	17-Jun-15	94.375	21.22	38	-8	0.42	0.00	0.00	0.00	0.00
144083	18.67	9.45	8-Jul-15	100.875	9.20	38	-16	1.40	0.00	0.00	0.00	0.00
152441	2,694.30	8.25	27-Jan-16	98.875	11.38	50	-18	1.83	0.00	0.00	55.17	0.02
153282	74.58	8.25	3-Feb-16	98.875	11.26	50	-18	1.85	0.00	0.00	71.92	0.96
160923	2,511.00	7.5	16-Mar-16	97.250	47.28	63	77	0.17	0.00	0.00	0.00	0.00
160907	240.09	8	23-Mar-16	98.125	10.57	50	-18	1.99	0.00	0.00	151.96	0.63
160915	2,511.00	8.25	22-Mar-17	97.125	10.59	75	-23	2.78	0.00	0.00	0.00	0.00
151286	4,436.10	7.5	20-Dec-17	93.625	9.89	100	-28	3.44	0.00	0.00	0.00	0.00

Notes: 1W - last 7-day period; turnover figures are trade volumes for a bond reported by PFTS; total turnover - total volume of trades with the bond at PFTS since issue date; [\*] liquidity ratio - ratio of total turnover to bond's volume in outstanding.

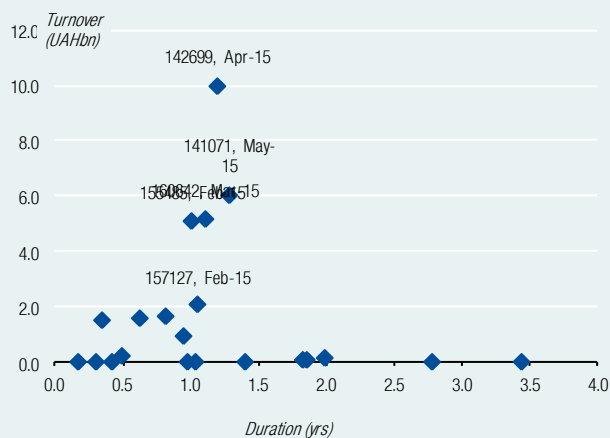
Sources: Bloomberg, PFTS, Investment Capital Ukraine LLC.

**Chart 5. Shape of the local-currency sovereign yield curve***Last one compared to 1 week ago*

Sources: Ministry of Finance, Bloomberg, PFTS, Investment Capital Ukraine LLC.

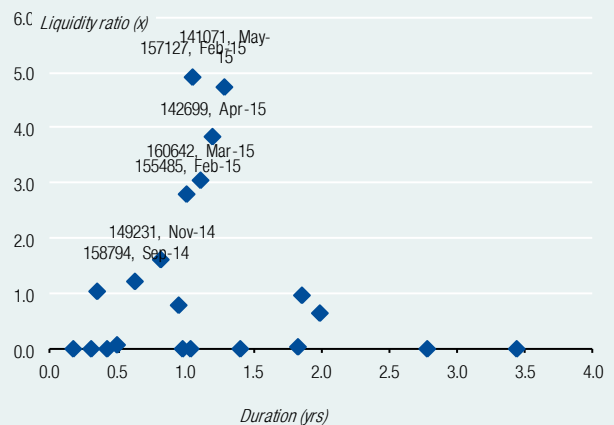
**Chart 6. Movement of the local-currency sovereign yield curve***Over last week, in percentage points*

Sources: Ministry of Finance, Bloomberg, PFTS, Investment Capital Ukraine LLC.

**Chart 7. Map of Ukraine's local-currency government bonds by total turnover plotted against their duration**

Note: Total turnover and duration are taken from Table 1, page 6. The bonds with turnover of UAH2bn and more have labels, which consist of PFTS ticker and after a coma month and year of maturity.

Sources: Ministry of Finance, Bloomberg, PFTS, Investment Capital Ukraine LLC.

**Chart 8. Map of Ukraine's local-currency government bonds by liquidity ratio plotted against their duration**

Note: Total turnover and duration are taken from Table 1, page 6. The bonds with liquidity ratio of 1.1x and more have labels, which consist of PFTS ticker and after a coma month and year of maturity.

Sources: Ministry of Finance, Bloomberg, PFTS, Investment Capital Ukraine LLC.

## Eurobond market

Table 2. Ukrainian Eurobonds as of 17 Jan 2014

Ticker	Issuer	Ratings	Volume (million)	Curr- ency	Coupon rate (%)	Maturity	Price (% of par)	YTM (%)	Weekly price chg (bp)	Weekly yield chg (bp)	Spread (bp)	Duration (years)
UKRAIN-15	Ministry of Finance	Caa1 /*-/B-/B-	600.0	EUR	4.95	13-Oct-15	99.625	5.17	63	-39	474	1.67
CITKIE-15	Kyiv	Caa1 /*-/B-/B-	250.0	USD	8	6-Nov-15	96.000	10.50	44	-26	997	1.67
CITKIE-16	Kyiv	Caa1 /*-/B-/B-	300.0	USD	9.375	11-Jul-16	95.563	11.49	19	-8	1,090	2.25
AGTPW-14	Agroton	NR/NR/WD	50.0	USD	12.5	14-Jul-14	52.188	218.09	0	858	20,079	0.48
NAFTO-14	Naftogaz of Ukraine	NR/NR/B-	1,595.0	USD	9.5	30-Sep-14	101.375	7.38	13	-24	709	0.66
PUMBUZ-14	FUIB	Caa1 /*- /NR/NR	252.5	USD	11	31-Dec-14	101.125	9.72	13	-16	902	0.90
EXIMUK-15	Ukreximbank	Caa1 /*- /NR/B-	750.0	USD	8.375	27-Apr-15	98.313	9.81	25	-20	927	1.20
MHPSA-15	MHP	Caa1 /*- /NR/B-	584.8	USD	10.25	29-Apr-15	104.938	6.12	125	-106	560	1.20
METINV-15	Metinvest Holding	Caa1 /*- /NR/B-	500.0	USD	10.25	20-May-15	103.688	7.26	19	-19	665	1.25
PRBANK-15	Pryvatbank	Caa1 /*- /NR/B-	200.0	USD	9.375	23-Sep-15	94.938	12.82	63	-41	1,188	1.53
EXIMUK-16	Ukreximbank	Caa2 /*- /NR/CC	125.0	USD	8.4	9-Feb-16	87.875	12.71	25	-10	1,203	1.89
PRBANK-16	Pryvatbank	Caa2 /*- /NR/NR	150.0	USD	8.75	9-Feb-16	79.770	18.06	-25	27	1,614	1.88
OSCHAD-16	Oshchadbank	Caa1 /*- /NR/B-	500.0	USD	8.25	10-Mar-16	94.750	11.07	38	-19	1,022	1.93
FXPOLN-16	Ferrexpo PLC	Caa1 /*-/B-/B-	500.0	USD	7.875	7-Apr-16	98.938	8.40	-19	10	800	2.02
NADRA-17	Nadra Bank	WR/NR/WD	59.7	USD	8	22-Jun-17	82.727	22.24	8,273	2,224	1,844	1.38
INPIP-17	Interpipe	NR/NR/C	200.0	USD	10.25	2-Aug-17	84.250	16.29	263	-111	1,540	2.83
UKRINF-17	Infrastructure Projects Fin	Caa1 /*- /NR/NR	538.0	USD	8.375	3-Nov-17	94.675	10.10	192	-64	920	3.24
UKRINF-17	Infrastructure Projects Fin	(P)Caa1 /*- /NR/NR	550.0	USD	9	7-Dec-17	98.719	9.40	203	-65	841	3.31
EXIMUK-18	Ukreximbank	Caa1 /*- /NR/B-	500.0	USD	8.75	22-Jan-18	92.000	11.29	-13	5	938	3.43
METINV-18	Metinvest Holding	Caa1 /*- /NR/B-	750.0	USD	8.75	14-Feb-18	99.063	9.03	125	-38	731	3.37
OSCHAD-18	Oshchadbank	Caa1 /*- /NR/B-	500.0	USD	8.875	20-Mar-18	90.813	11.72	-6	3	983	3.42
UKRINF-18	Infrastructure Projects Fin	Caa1 /*- /NR/NR	690.0	USD	7.4	20-Apr-18	89.563	10.51	0	1	862	3.61
UKRAIN-14	Ministry of Finance	Caa1 /*-/B-/B-	1,000.0	USD	7.95	4-Jun-14	100.625	6.13	0	-10	505	0.36
UKRAIN-15	Ministry of Finance	Caa1 /*-/B-/B-	500.0	USD	6.875	23-Sep-15	101.026	6.21	96	-62	551	1.57
UKRAIN-16	Ministry of Finance	Caa1 /*-/B-/B-	1,250.0	USD	6.25	17-Jun-16	99.587	6.43	228	-105	583	2.25
UKRAIN-16	Ministry of Finance	Caa1 /*-/B-/B-	1,000.0	USD	6.58	21-Nov-16	99.856	6.63	279	-111	606	2.60
UKRAIN-17	Ministry of Finance	Caa1 /*-/B-/B-	2,600.0	USD	9.25	24-Jul-17	104.675	7.70	160	-52	675	2.95
UKRAIN-17	Ministry of Finance	Caa1 /*-/B-/B-	700.0	USD	6.75	14-Nov-17	97.372	7.55	170	-53	657	3.37
UKRAIN-20	Ministry of Finance	Caa1 /*-/B-/B-	1,500.0	USD	7.75	23-Sep-20	96.987	8.34	272	-56	658	5.17
UKRAIN-21	Ministry of Finance	Caa1 /*-/B-/B-	1,500.0	USD	7.95	23-Feb-21	97.286	8.47	222	-43	551	5.35
UKRAIN-22	Ministry of Finance	Caa1 /*-/B-/B-	2,250.0	USD	7.8	28-Nov-22	95.550	8.52	241	-41	560	6.41
UKRAIN-23	Ministry of Finance	Caa1 /*-/B-/B-	1,250.0	USD	7.5	17-Apr-23	94.333	8.39	147	-24	547	6.61
FICBUA-14	Finance and Credit Bank	Ca/NR/NR	95.0	USD	10.5	25-Jan-14	82.495	185.56	0	0	15,603	0.18
VABANK-14	VAB Bank	Caa1 /*- /NR/WD	112.5	USD	10.5	14-Jun-14	90.100	38.87	-15	775	4,071	0.38

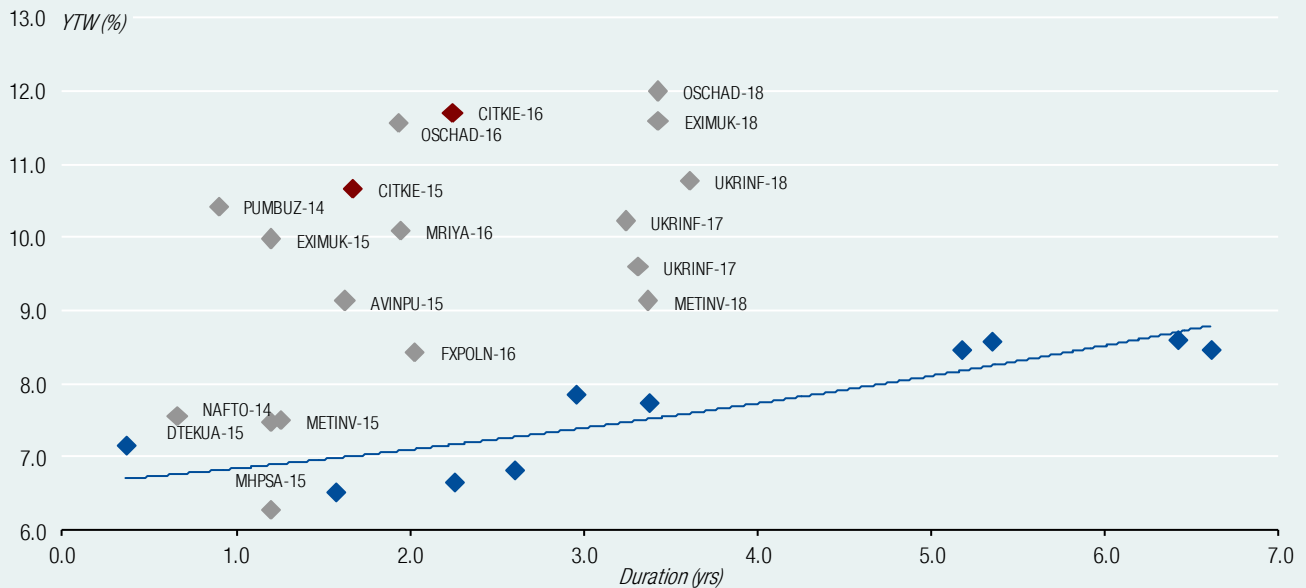


<b>DTEKUA-15</b> DTEK	Caa1 /*- /NR/B-	500.0	USD	9.5	28-Apr-15	102.688	7.22	13	-13	658	1.20
<b>AVINPU-15</b> Avangard	NR/NR/B-	200.0	USD	10	29-Oct-15	101.438	9.08	63	-39	867	1.63
<b>OSCHAD-16</b> Oshchadbank	NR/NR/B	200.0	USD	8.25	10-Mar-16	0.000	0.00	0	0	0	0.00
<b>MRIYA-16</b> Mriya Agrohholding	NR/B-/B-	250.0	USD	10.95	30-Mar-16	102.063	9.86	63	-33	926	1.94
<b>PRBANK-18</b> Pryvatbank	Caa1 /*- /NR/B-	175.0	USD	10.875	28-Feb-18	92.313	13.36	269	-92	1,141	3.23

Sources: Bloomberg, Investment Capital Ukraine LLC.

**Chart 9. Term structure of yields of Ukrainian Eurobonds as of 17 Jan 2014**

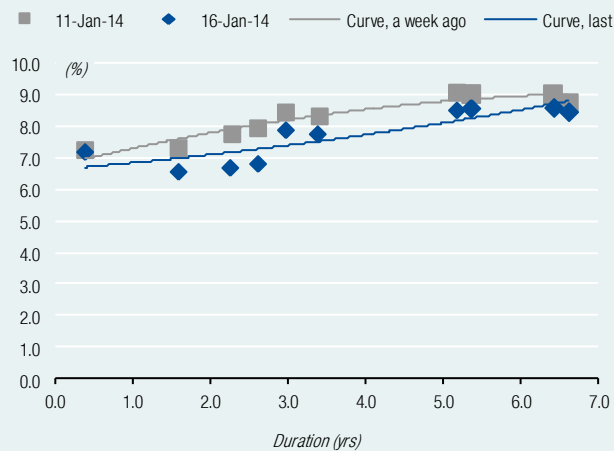
Blue dots are Ukraine sovereign Eurobonds; grey dots are corporate Eurobonds and red ones are municipal Eurobonds



Sources: Bloomberg, Investment Capital Ukraine LLC..

**Chart 10. Shape of the USD sovereign yield curve at Eurobond market**

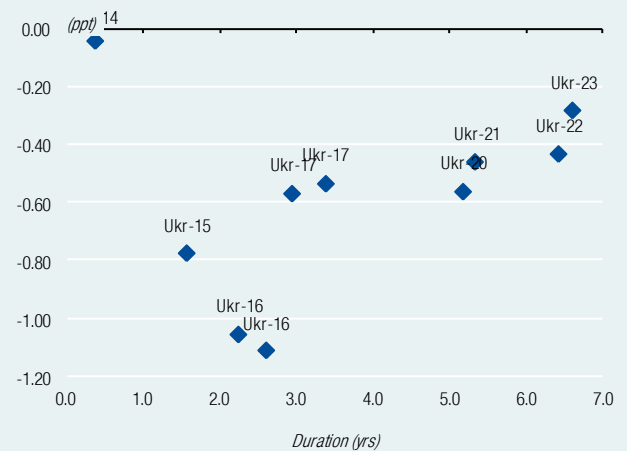
Last one compared to 1 week ago



Sources: Bloomberg, Investment Capital Ukraine LLC.

**Chart 11. Movement of the USD sovereign yield curve at Eurobond market**

Over last week, in percentage points



Note: each point of the chart has a label, where "Ukr" means Ukraine sovereign bond and a two-digit figure after a dash means year of maturity of the bond.  
Sources: Bloomberg, Investment Capital Ukraine LLC.

## Primary market for UAH state bonds

Table 3. Primary market for local-currency government bonds: results of recent auctions

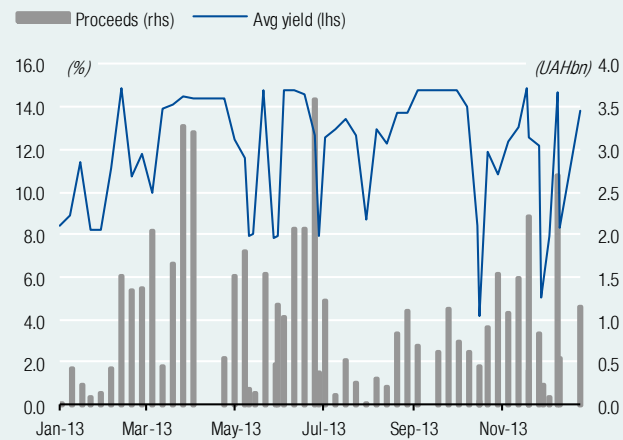
Date	Qty of bonds offered/sold	Proceeds (UAHm)	Volume of bonds sold* (UAHm)	Volume of bids submitted (UAHm)	Qty of bids submitted	Lowest yield asked** (%)	Highest yield asked** (%)	MoF cut-off yield (%)	Qty of bids accepted	Average yield (%)	WA yield (%)	Average duration (years)	WA duration (years)
14-Jan-14	2	1,150.73	1,152.26	1,152.26	19	8.75	14.25	11.50	6	13.85	14.76	2.35	3.68
31-Dec-13	1	544.86	550.00	550.00	1	8.00	8.00	8.00	1	8.29	8.29	0.12	0.12
30-Dec-13	4	2,695.11	2,374.81	2,645.12	6	5.00	14.30	9.64	6	14.67	14.81	2.09	3.81
24-Dec-13	1	99.96	99.83	99.83	1	7.75	7.75	7.75	1	7.92	7.92	2.71	2.71
19-Dec-13	2	234.96	184.00	234.00	4	4.80	5.00	4.90	4	5.00	5.06	0.02	0.02
17-Dec-13	2	837.39	123.30	823.30	2	7.75	14.25	11.00	2	12.14	14.09	3.07	3.49
10-Dec-13	2	405.47	47.49	397.49	2	7.75	14.30	11.03	2	12.53	14.40	3.59	4.31
9-Dec-13	2	2,211.89	2,200.00	2,200.00	2	14.25	14.30	14.28	2	14.83	14.84	4.14	4.31
3-Dec-13	4	1,480.13	1,405.00	1,454.93	5	7.75	14.30	12.10	5	13.04	14.66	3.60	3.96
26-Nov-13	5	1,083.86	862.07	1,082.98	13	4.00	14.30	9.56	13	12.39	11.66	2.63	1.82
19-Nov-13	5	1,542.65	761.35	1,536.85	9	4.00	14.25	9.10	9	10.87	10.94	3.11	2.68
12-Nov-13	5	906.07	654.81	900.81	15	4.00	14.25	8.65	14	11.93	10.63	1.43	0.58
6-Nov-13	1	458.93	460.00	565.00	11	4.00	10.00	4.25	4	4.12	4.12	0.06	0.06
5-Nov-13	1	49.89	48.65	48.65	1	8.25	8.25	8.25	1	8.41	8.41	1.58	1.58
29-Oct-13	2	614.19	625.55	665.55	7	7.75	14.25	11.13	5	14.03	14.02	2.19	2.18
22-Oct-13	1	739.96	738.00	738.00	3	14.25	14.25	14.25	3	14.79	14.79	3.71	3.71
15-Oct-13	2	1,128.68	1,126.01	1,126.01	3	14.25	14.30	14.28	3	14.82	14.82	4.17	4.12
8-Oct-13	1	613.39	606.94	606.94	3	14.25	14.25	14.25	3	14.79	14.79	3.66	3.66
24-Sep-13	3 / 2	694.79	677.00	678.61	6	8.25	14.30	9.52	4	14.82	14.84	4.07	4.42
17-Sep-13	3	1,093.44	1,021.00	1,081.01	6	4.80	14.30	11.12	5	13.68	14.66	3.20	3.87
10-Sep-13	4 / 3	840.87	794.63	820.02	10	8.25	14.30	9.20	9	13.73	14.70	3.34	3.52
3-Sep-13	5 / 2	207.13	207.00	282.10	11	0.00	16.00	4.86	3	12.29	10.40	5.37	6.44
27-Aug-13	4	302.20	166.64	319.64	14	7.75	14.30	11.26	12	12.91	13.24	3.09	2.79
20-Aug-13	2	20.07	20.00	20.00	3	8.25	8.75	8.50	3	8.74	8.85	2.23	2.46
13-Aug-13	5	250.03	228.63	249.60	8	7.75	14.30	10.66	8	12.70	13.99	2.68	2.06
6-Aug-13	2	513.53	496.03	530.43	9	8.25	14.30	11.28	4	13.44	14.80	3.08	4.50
30-Jul-13	3	120.84	85.84	149.34	12	7.75	14.25	10.08	7	12.92	10.47	1.82	1.50
23-Jul-13	3	1,214.05	1,209.77	1,214.82	16	7.70	14.25	10.08	16	12.57	14.55	1.99	2.39
18-Jul-13	1	388.81	395.00	395.00	5	7.75	7.75	7.75	5	7.89	7.89	0.21	0.21
16-Jul-13	5	3,582.50	3,375.00	3,581.70	20	7.75	14.30	10.66	19	12.63	14.57	2.69	3.52
9-Jul-13	3	2,076.42	2,068.40	2,168.40	11	7.75	14.30	12.10	10	14.63	14.79	2.87	3.81
2-Jul-13	2	2,057.20	2,024.50	2,024.50	6	14.25	14.30	14.28	6	14.82	14.79	4.06	3.66
25-Jun-13	2	1,039.05	1,023.50	1,023.50	3	14.25	14.30	14.28	3	14.82	14.83	4.08	4.24
20-Jun-13	1	1,164.57	1,197.21	1,197.21	5	7.75	7.75	7.75	5	7.94	7.94	0.36	0.36
18-Jun-13	1	476.54	490.00	490.00	7	7.75	7.75	7.75	7	7.88	7.88	0.37	0.37
11-Jun-13	2	1,541.07	1,526.95	1,526.95	5	14.25	14.30	14.28	5	14.82	14.82	4.12	4.09
4-Jun-13	3	137.29	120.00	160.91	10	7.75	8.00	7.83	9	8.04	7.93	1.68	0.66
31-May-13	1	172.94	172.00	172.00	3	7.75	7.75	7.75	3	7.89	7.89	1.82	1.82
28-May-13	5	1,795.19	1,343.20	1,785.55	21	7.45	14.30	10.35	20	11.56	13.35	3.38	3.57
21-May-13	5	1,507.16	1,330.51	1,494.19	18	7.75	14.30	10.41	18	12.45	14.45	2.72	3.80

Notes: the tables depicts the history of last 40 auctions; [\*] - volume of bonds sold at the auction at par value; [\*\*] - lowest and highest yields that are indicated in the bid orders submitted to the auction in order to buy all bonds offered by MoF.

Sources: Ministry of Finance, Investment Capital Ukraine LLC.

**Chart 12. Effective yield of debt raised by MoF and total volume of proceeds at the government bond auctions**

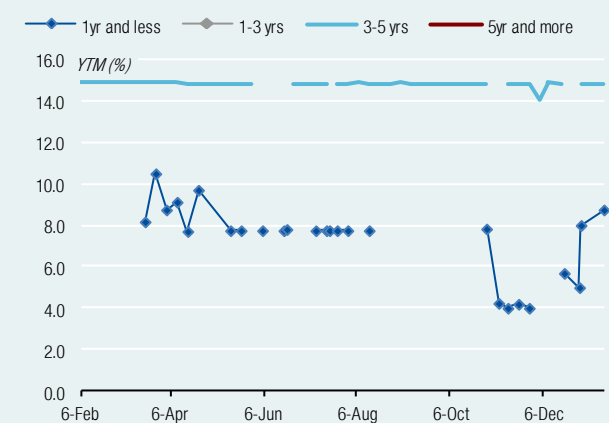
*Last 12-month period*



Sources: Ministry of Finance, Investment Capital Ukraine LLC.

**Chart 13. Yield-to-maturity of government bonds sold at auctions, breakdown by duration of bonds sold**

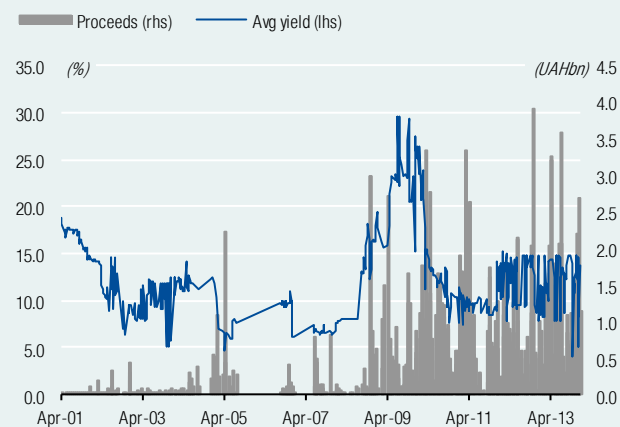
*Last 12-month period*



Sources: Ministry of Finance, Investment Capital Ukraine LLC.

**Chart 14. Effective yield of debt raised by MoF and total volume of proceeds at the government bond auctions**

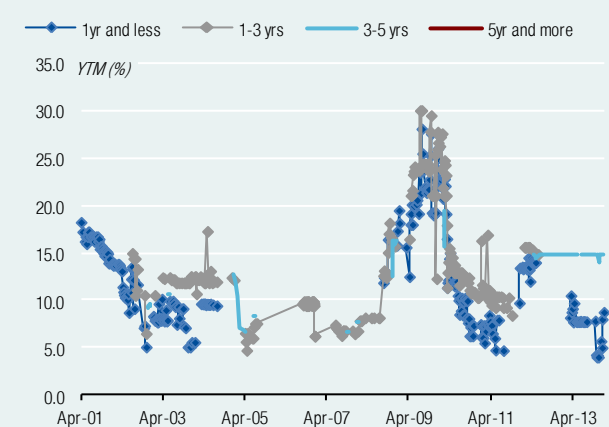
*History since April 2001 to present*



Sources: Ministry of Finance, Investment Capital Ukraine LLC.

**Chart 15. Yield-to-maturity of government bonds sold at auctions, breakdown by duration of bonds sold**

*History since April 2001 to present*



Sources: Ministry of Finance, Investment Capital Ukraine LLC.

## UAH state bonds outstanding

Table 4. Outstanding of local-currency government bonds

ISIN	Bond type	Outstanding volume (UAH)	Coupon rate (%)	Payment frequency	Amortisation option	Put option	Next put	Maturity date
<b>Government UAH bonds</b>								
UA4000178404	Zero-coupon bonds	50,000,000.00		Upon maturity	No	No		22-Jan-2014
UA4000108823	Coupon bonds	2,705,000,000.00	10.97	Semi-annually	No	No		29-Jan-2014
UA4000134936	Coupon bonds	2,745,100,000.00	15.00	Semi-annually	No	No		5-Feb-2014
UA4000178479	Zero-coupon bonds	550,000,000.00		Upon maturity	No	No		12-Feb-2014
UA4000137277	Coupon bonds	1,750,000,000.00	15.00	Semi-annually	No	No		12-Mar-2014
UA4000160899	Zero-coupon bonds	497,000,000.00		Upon maturity	No	No		19-Mar-2014
UA4000115117	Coupon bonds	1,525,000,000.00	10.75	Semi-annually	No	No		26-Mar-2014
UA4000176085	Zero-coupon bonds	314,000,000.00		Upon maturity	No	No		23-Apr-2014
UA4000118871	Coupon bonds	1,437,350,000.00	10.13	Semi-annually	No	No		30-Apr-2014
UA4000051403	Coupon bonds	1,000,000,000.00	15.60	Semi-annually	No	No		14-May-2014
UA4000123863	Coupon bonds	752,000,000.00	10.10	Semi-annually	No	No		9-Jul-2014
UA4000178883	Zero-coupon bonds	25,000,000.00		Upon maturity	No	No		15-Oct-2014
UA4000064026	Coupon bonds	1,000,000.00	18.50	Semi-annually	No	No		21-Jan-2015
UA4000064166	Coupon bonds	451,875,000.00	15.00	Semi-annually	No	No		28-Jan-2015
UA4000141592	Coupon bonds	250,000,000.00	14.30	Semi-annually	No	No		20-May-2015
UA4000106181	Coupon bonds	80,002,000.00	9.50	Quarterly	Yes	Yes	13-Jul-2016	13-Jul-2016
UA4000107528	Coupon bonds	8,662,500.00	12.50	Quarterly	Yes	No		20-Jul-2016
UA4000138853	Coupon bonds	1,928,720,000.00	14.30	Semi-annually	No	No		5-Apr-2017
UA4000142665	Coupon bonds	1,759,740,000.00	14.30	Semi-annually	No	No		24-May-2017
UA4000145973	Coupon bonds	1,810,000,000.00	14.30	Semi-annually	No	No		2-Aug-2017
UA4000148027	Coupon bonds	1,824,455,000.00	14.30	Semi-annually	No	No		11-Oct-2017
UA4000148571	Coupon bonds	1,890,000,000.00	14.30	Semi-annually	No	No		18-Oct-2017
UA4000177745	Coupon bonds	5,000,000.00	12.10	Semi-annually	No	No		15-Nov-2017
UA4000151203	Coupon bonds	1,493,409,000.00	14.30	Semi-annually	No	No		13-Dec-2017
UA4000157119	Coupon bonds	2,500,330,000.00	14.30	Semi-annually	No	No		7-Feb-2018
UA4000160626	Coupon bonds	1,818,593,000.00	14.30	Semi-annually	No	No		7-Mar-2018
UA4000162127	Coupon bonds	2,751,160,000.00	14.30	Semi-annually	No	No		4-Apr-2018
UA4000165765	Coupon bonds	1,585,600,000.00	14.25	Semi-annually	No	No		11-Apr-2018
UA4000166219	Coupon bonds	400,000,000.00	14.25	Semi-annually	No	No		18-Apr-2018
UA4000166201	Coupon bonds	2,254,507,000.00	14.25	Semi-annually	No	No		2-May-2018
UA4000168082	Coupon bonds	3,050,250,000.00	14.25	Semi-annually	No	No		16-May-2018
UA4000171391	Coupon bonds	1,803,816,000.00	14.25	Semi-annually	No	No		27-Jun-2018
UA4000170732	Coupon bonds	3,853,400,000.00	14.25	Semi-annually	No	No		4-Jul-2018
UA4000174239	Coupon bonds	1,247,936,000.00	14.25	Semi-annually	No	No		5-Sep-2018
UA4000175467	Coupon bonds	1,364,010,000.00	14.25	Semi-annually	No	No		10-Oct-2018
UA4000176093	Coupon bonds	1,644,780,000.00	14.25	Semi-annually	No	No		24-Oct-2018
UA4000177919	Coupon bonds	2,100,000,000.00	14.25	Semi-annually	No	No		14-Nov-2018
UA4000178891	Coupon bonds	1,127,263,000.00	14.25	Semi-annually	No	No		9-Jan-2019
UA4000138861	Coupon bonds	2,160,000,000.00	14.00	Semi-annually	No	No		17-Apr-2019
UA4000142137	Coupon bonds	1,900,000,000.00	14.13	Semi-annually	No	No		22-May-2019
UA4000146997	Coupon bonds	1,996,041,000.00	14.30	Semi-annually	No	No		18-Sep-2019
UA4000148589	Coupon bonds	2,000,000,000.00	14.30	Semi-annually	No	No		23-Oct-2019
UA4000148944	Coupon bonds	500,000,000.00	14.30	Semi-annually	No	No		30-Oct-2019
UA4000157671	Coupon bonds	1,760,800,000.00	14.30	Semi-annually	No	No		12-Feb-2020
UA4000165773	Coupon bonds	1,820,000,000.00	14.30	Semi-annually	No	No		8-Apr-2020
UA4000166805	Coupon bonds	1,944,904,000.00	14.30	Semi-annually	No	No		6-May-2020
UA4000171094	Coupon bonds	2,403,338,000.00	14.30	Semi-annually	No	No		8-Jul-2020
UA4000175459	Coupon bonds	1,195,000,000.00	14.30	Semi-annually	No	No		23-Sep-2020

Table 4. Outstanding of local-currency government bonds

ISIN	Bond type	Outstanding volume (UAH)	Coupon rate (%)	Payment frequency	Amortisation option	Put option	Next put	Maturity date
UA4000178024	Coupon bonds	2,024,807,000.00	14.30	Semi-annually	No	No		21-Oct-2020
UA4000177927	Coupon bonds	1,500,000,000.00	14.30	Semi-annually	No	No		18-Nov-2020
UA4000173371	Coupon bonds	330,000,000.00	10.00	Semi-annually	No	No		23-Aug-2023
<b>Total</b>		<b>73,889,848,500.00</b>						
<b>Government recap'n bonds</b>								
UA4000063200	Coupon bonds	1,598,269,000.00	9.75	Semi-annually	No	No		11-Jun-2014
UA4000136436	Coupon bonds	1,500,000,000.00	9.65	Semi-annually	No	No		30-Jul-2014
UA4000136451	Coupon bonds	1,500,000,000.00	9.75	Semi-annually	No	No		8-Oct-2014
UA4000063218	Coupon bonds	1,598,270,000.00	9.75	Semi-annually	No	No		12-Nov-2014
UA4000063226	Coupon bonds	1,598,270,000.00	9.75	Semi-annually	No	No		17-Dec-2014
UA4000136469	Coupon bonds	1,500,000,000.00	9.95	Semi-annually	No	No		4-Feb-2015
UA4000092100	Coupon bonds	500,000,000.00	9.50	Semi-annually	No	No		18-Mar-2015
UA4000146393	Coupon bonds	1,000,000,000.00	9.95	Semi-annually	No	No		2-Sep-2015
UA4000048789	Coupon bonds	2,000,000,000.00	9.50	Semi-annually	No	No		18-Nov-2015
UA4000050090	Coupon bonds	4,000,000,000.00	9.50	Semi-annually	No	No		16-Dec-2015
UA4000092118	Coupon bonds	1,500,000,000.00	9.50	Semi-annually	No	No		17-Feb-2016
UA4000115190	Coupon bonds	1,250,000,000.00	9.50	Semi-annually	No	No		9-Mar-2016
UA4000050199	Coupon bonds	3,885,000,000.00	9.50	Semi-annually	No	No		13-Apr-2016
UA4000050017	Coupon bonds	3,700,000,000.00	9.50	Semi-annually	No	No		10-May-2016
UA4000092126	Coupon bonds	1,500,000,000.00	9.50	Semi-annually	No	No		29-Jun-2016
UA4000092134	Coupon bonds	1,500,000,000.00	9.50	Semi-annually	No	No		13-Jul-2016
UA4000119945	Coupon bonds	1,750,000,000.00	9.50	Semi-annually	No	No		24-Aug-2016
UA4000050207	Coupon bonds	3,885,000,000.00	9.50	Semi-annually	No	No		14-Sep-2016
UA4000115208	Coupon bonds	1,250,000,000.00	9.50	Semi-annually	No	No		15-Feb-2017
UA4000092142	Coupon bonds	1,200,000,000.00	9.50	Semi-annually	No	No		12-Apr-2017
UA4000057111	Coupon bonds	1,033,333,000.00	9.50	Semi-annually	No	No		31-May-2017
UA4000057277	Coupon bonds	1,188,431,000.00	9.50	Semi-annually	No	No		7-Jun-2017
UA4000057301	Coupon bonds	936,171,000.00	9.50	Semi-annually	No	No		14-Jun-2017
UA4000156863	Coupon bonds	2,000,000,000.00	14.30	Semi-annually	No	No		28-Jun-2017
UA4000058606	Coupon bonds	3,100,000,000.00	9.50	Semi-annually	No	No		19-Jul-2017
UA4000158315	Coupon bonds	1,000,000,000.00	14.30	Semi-annually	No	No		16-Aug-2017
UA4000092167	Coupon bonds	1,200,000,000.00	9.50	Semi-annually	No	No		23-Aug-2017
UA4000115216	Coupon bonds	1,250,000,000.00	9.50	Semi-annually	No	No		13-Sep-2017
UA4000058614	Coupon bonds	1,658,263,000.00	9.50	Semi-annually	No	No		4-Oct-2017
UA4000153340	Coupon bonds	1,500,000,000.00	14.30	Semi-annually	No	No		8-Nov-2017
UA4000151476	Coupon bonds	2,000,000,000.00	14.30	Semi-annually	No	No		29-Nov-2017
UA4000153126	Coupon bonds	500,000,000.00	14.30	Semi-annually	No	No		13-Dec-2017
UA4000130082	Coupon bonds	2,000,000,000.00	9.50	Semi-annually	No	No		27-Dec-2017
UA4000130090	Coupon bonds	2,000,000,000.00	9.50	Semi-annually	No	No		17-Jan-2018
UA4000115638	Coupon bonds	1,975,000,000.00	9.50	Semi-annually	No	No		21-Feb-2018
UA4000160758	Coupon bonds	1,000,000,000.00	14.30	Semi-annually	No	No		14-Mar-2018
UA4000061790	Coupon bonds	1,400,000,000.00	9.50	Semi-annually	No	No		28-Mar-2018
UA4000119952	Coupon bonds	1,750,000,000.00	9.50	Semi-annually	No	No		25-Apr-2018
UA4000055586	Coupon bonds	1,000,000,000.00	9.50	Semi-annually	No	No		9-May-2018
UA4000057319	Coupon bonds	936,172,000.00	9.50	Semi-annually	No	No		30-May-2018
UA4000057129	Coupon bonds	1,033,333,000.00	9.50	Semi-annually	No	No		6-Jun-2018
UA4000057285	Coupon bonds	1,188,431,000.00	9.50	Semi-annually	No	No		13-Jun-2018
UA4000173314	Coupon bonds	1,250,000,000.00	14.25	Semi-annually	No	No		20-Jun-2018
UA4000058622	Coupon bonds	1,916,119,000.00	9.50	Semi-annually	No	No		18-Jul-2018
UA4000173306	Coupon bonds	1,250,000,000.00	14.25	Semi-annually	No	No		25-Jul-2018
UA4000173298	Coupon bonds	1,250,000,000.00	14.25	Semi-annually	No	No		1-Aug-2018

Table 4. Outstanding of local-currency government bonds

ISIN	Bond type	Outstanding volume (UAH)	Coupon rate (%)	Payment frequency	Amortisation option	Put option	Next put	Maturity date
UA4000120877	Coupon bonds	604,000,000.00	9.50	Semi-annually	No	No		8-Aug-2018
UA4000173280	Coupon bonds	1,250,000,000.00	14.25	Semi-annually	No	No		15-Aug-2018
UA4000115224	Coupon bonds	1,250,000,000.00	9.50	Semi-annually	No	No		22-Aug-2018
UA4000062525	Coupon bonds	650,000,000.00	9.50	Semi-annually	No	No		12-Sep-2018
UA4000115646	Coupon bonds	1,975,001,000.00	9.50	Semi-annually	No	No		19-Sep-2018
UA4000058630	Coupon bonds	1,355,345,000.00	9.50	Semi-annually	No	No		3-Oct-2018
UA4000059323	Coupon bonds	1,000,000,000.00	9.50	Semi-annually	No	No		31-Oct-2018
UA4000121495	Coupon bonds	1,000,000,000.00	9.50	Semi-annually	No	No		7-Nov-2018
UA4000064307	Coupon bonds	1,000,000,000.00	9.50	Semi-annually	No	No		21-Nov-2018
UA4000177943	Coupon bonds	300,000,000.00	9.50	Semi-annually	No	No		28-Nov-2018
UA4000061808	Coupon bonds	1,400,000,000.00	9.50	Semi-annually	No	No		6-Feb-2019
UA4000064315	Coupon bonds	1,294,999,000.00	9.50	Semi-annually	No	No		13-Mar-2019
UA4000058648	Coupon bonds	1,933,060,000.00	9.50	Semi-annually	No	No		3-Apr-2019
UA4000121503	Coupon bonds	1,100,000,000.00	9.50	Semi-annually	No	No		15-May-2019
UA4000057293	Coupon bonds	1,188,432,000.00	9.50	Semi-annually	No	No		29-May-2019
UA4000057327	Coupon bonds	936,172,000.00	9.50	Semi-annually	No	No		5-Jun-2019
UA4000057137	Coupon bonds	1,033,334,000.00	9.50	Semi-annually	No	No		12-Jun-2019
UA4000064323	Coupon bonds	1,000,000,000.00	9.50	Semi-annually	No	No		17-Jul-2019
UA4000063119	Coupon bonds	1,276,191,000.00	9.50	Semi-annually	No	No		21-Aug-2019
UA4000064349	Coupon bonds	1,295,000,000.00	9.50	Semi-annually	No	No		25-Sep-2019
UA4000064117	Coupon bonds	900,000,000.00	9.50	Semi-annually	No	No		16-Oct-2019
UA4000064125	Coupon bonds	900,000,000.00	9.50	Semi-annually	No	No		20-Nov-2019
UA4000063010	Coupon bonds	950,000,000.00	9.50	Semi-annually	No	No		11-Mar-2020
UA4000061816	Coupon bonds	1,400,000,000.00	9.50	Semi-annually	No	No		15-Apr-2020
UA4000121511	Coupon bonds	1,100,000,000.00	9.50	Semi-annually	No	No		20-May-2020
UA4000063127	Coupon bonds	1,500,000,000.00	9.50	Semi-annually	No	No		17-Jun-2020
UA4000063028	Coupon bonds	949,981,000.00	9.50	Semi-annually	No	No		12-Aug-2020
UA4000061824	Coupon bonds	1,400,000,000.00	9.50	Semi-annually	No	No		4-Nov-2020
UA4000177950	Coupon bonds	1,400,000,000.00	9.50	Semi-annually	No	No		25-Nov-2020
UA4000063135	Coupon bonds	1,500,000,000.00	9.50	Semi-annually	No	No		9-Jun-2021
UA4000121529	Coupon bonds	1,100,000,000.00	9.50	Semi-annually	No	No		22-Sep-2021
UA4000063143	Coupon bonds	1,500,000,000.00	9.50	Semi-annually	No	No		1-Jun-2022
<b>Total</b>		<b>112,971,577,000.00</b>						
<b>Government VAT bonds 2010</b>								
UA4000078141	Coupon bonds	19,376,000.00	5.50	Semi-annually	Yes	No		27-Jul-2015
UA4000082531	Coupon bonds	819,126,000.00	5.50	Semi-annually	Yes	No		21-Aug-2015
UA4000082622	Coupon bonds	3,321,949,200.00	5.50	Semi-annually	Yes	No		24-Aug-2015
UA4000083059	Coupon bonds	2,413,914,000.00	5.50	Semi-annually	Yes	No		25-Aug-2015
<b>Total</b>		<b>6,574,365,200.00</b>						
<b>Government indexed bonds</b>								
UA4000129100	Coupon bonds	1,610,000,000.00	8.22	Semi-annually	No	No		24-Sep-2014
UA4000129902	Coupon bonds	175,000,000.00	8.22	Semi-annually	No	No		22-Oct-2014
UA4000130595	Coupon bonds	200,000,000.00	8.25	Semi-annually	No	No		29-Oct-2014
UA4000130603	Coupon bonds	1,200,100,000.00	8.22	Semi-annually	No	No		5-Nov-2014
UA4000132278	Coupon bonds	250,000,000.00	9.75	Semi-annually	No	No		3-Dec-2014
UA4000137822	Coupon bonds	700,000,000.00	9.30	Semi-annually	No	No		4-Mar-2015
UA4000138242	Coupon bonds	470,000,000.00	9.30	Semi-annually	No	No		8-Apr-2015
UA4000139513	Coupon bonds	900,000,000.00	9.30	Semi-annually	No	No		13-May-2015
UA4000141600	Coupon bonds	100,000,000.00	9.30	Semi-annually	No	No		3-Jun-2015
UA4000144075	Coupon bonds	600,000,000.00	9.30	Semi-annually	No	No		15-Jul-2015
UA4000146070	Coupon bonds	200,000,000.00	9.30	Semi-annually	No	No		12-Aug-2015

Table 4. Outstanding of local-currency government bonds

ISIN	Bond type	Outstanding volume (UAH)	Coupon rate (%)	Payment frequency	Amortisation option	Put option	Next put	Maturity date
UA4000146500	Coupon bonds	525,000,000.00	9.30	Semi-annually	No	No		9-Sep-2015
UA4000148217	Coupon bonds	329,000,000.00	9.30	Semi-annually	No	No		28-Oct-2015
UA4000149082	Coupon bonds	580,000,000.00	9.30	Semi-annually	No	No		11-Nov-2015
UA4000151500	Coupon bonds	557,000,000.00	9.19	Semi-annually	No	No		13-Jan-2016
UA4000160634	Coupon bonds	60,000,000.00	9.10	Semi-annually	No	No		16-Mar-2016
UA4000129233	Coupon bonds	850,000,000.00	8.75	Semi-annually	No	No		10-Aug-2016
UA4000129118	Coupon bonds	1,940,000,000.00	8.75	Semi-annually	No	No		28-Sep-2016
UA4000177406	Coupon bonds	477,000,000.00	9.50	Semi-annually	No	No		16-Nov-2016
UA4000129241	Coupon bonds	1,000,000,000.00	9.25	Semi-annually	No	No		15-Sep-2021
<b>Total</b>		<b>12,723,100,000.00</b>						
<b>Government foreign-currency bonds</b>								
UA4000178412	Zero-coupon bonds	1,844,036,550.00		Upon maturity	No	No		22-Jan-2014
UA4000177125	Zero-coupon bonds	251,100,000.00		Upon maturity	No	No		23-Apr-2014
UA4000140362	Coupon bonds	1,429,813,620.00	9.20	Semi-annually	No	No		21-May-2014
UA4000157135	Coupon bonds	2,460,780,000.00	7.97	Semi-annually	No	No		23-Jul-2014
UA4000158794	Coupon bonds	1,268,055,000.00	7.50	Semi-annually	No	No		10-Sep-2014
UA4000174247	Coupon bonds	680,029,020.00	4.80	Semi-annually	No	Yes	29-Oct-2014	29-Oct-2014
UA4000149231	Coupon bonds	1,021,876,560.00	8.32	Semi-annually	No	No		19-Nov-2014
UA4000173058	Coupon bonds	837,000,000.00	7.75	Semi-annually	No	No		26-Nov-2014
UA4000177133	Coupon bonds	1,883,250,000.00	7.88	Semi-annually	No	No		10-Dec-2014
UA4000171649	Coupon bonds	830,596,950.00	8.25	Semi-annually	No	No		24-Dec-2014
UA4000151278	Coupon bonds	1,231,160,040.00	8.50	Semi-annually	No	No		7-Jan-2015
UA4000133771	Coupon bonds	161,080,650.00	9.60	Semi-annually	No	No		14-Jan-2015
UA4000155485	Coupon bonds	1,828,845,000.00	8.09	Semi-annually	No	No		11-Feb-2015
UA4000157143	Coupon bonds	418,500,000.00	8.02	Semi-annually	No	No		18-Feb-2015
UA4000157127	Coupon bonds	413,611,920.00	8.02	Semi-annually	No	No		25-Feb-2015
UA4000160642	Coupon bonds	1,690,128,990.00	7.75	Semi-annually	No	No		18-Mar-2015
UA4000142699	Coupon bonds	2,609,514,900.00	9.45	Semi-annually	No	No		22-Apr-2015
UA4000142681	Coupon bonds	453,352,680.00	4.80	Semi-annually	No	Yes	6-May-2015	6-May-2015
UA4000166821	Coupon bonds	2,231,442,000.00	7.75	Semi-annually	No	No		6-May-2015
UA4000141071	Coupon bonds	1,268,490,240.00	9.45	Semi-annually	No	No		27-May-2015
UA4000167837	Coupon bonds	1,453,952,700.00	7.75	Semi-annually	No	No		3-Jun-2015
UA4000142673	Coupon bonds	1,464,750,000.00	4.50	Semi-annually	No	Yes	17-Jun-2015	17-Jun-2015
UA4000144083	Coupon bonds	18,665,100.00	9.45	Semi-annually	No	No		8-Jul-2015
UA4000171409	Coupon bonds	873,643,860.00	8.25	Semi-annually	No	No		15-Jul-2015
UA4000152441	Coupon bonds	2,694,303,000.00	8.25	Semi-annually	No	No		27-Jan-2016
UA4000153282	Coupon bonds	74,576,700.00	8.25	Semi-annually	No	No		3-Feb-2016
UA4000160923	Coupon bonds	2,511,000,000.00	7.50	Semi-annually	No	Yes	16-Mar-2016	16-Mar-2016
UA4000160907	Coupon bonds	240,093,450.00	8.00	Semi-annually	No	No		23-Mar-2016
UA4000166847	Coupon bonds	623,146,500.00	8.00	Semi-annually	No	No		25-May-2016
UA4000172506	Coupon bonds	1,889,837,190.00	8.75	Semi-annually	No	No		10-Aug-2016
UA4000177414	Coupon bonds	2,498,445,000.00	7.75	Semi-annually	No	Yes	26-Oct-2016	26-Oct-2016
UA4000177752	Coupon bonds	417,880,620.00	7.75	Semi-annually	No	Yes	30-Nov-2016	30-Nov-2016
UA4000178305	Coupon bonds	835,593,840.00	7.75	Semi-annually	No	No		14-Dec-2016
UA4000160915	Coupon bonds	2,511,000,000.00	8.25	Semi-annually	No	No		22-Mar-2017
UA4000166854	Coupon bonds	2,720,250,000.00	7.45	Semi-annually	No	Yes	17-May-2017	17-May-2017
UA4000151286	Coupon bonds	4,436,100,000.00	7.50	Semi-annually	No	No		20-Dec-2017
UA4000177554	Coupon bonds	1,673,305,290.00	7.50	Semi-annually	No	Yes	21-Nov-2018	21-Nov-2018
<b>Total</b>		<b>51,749,207,370.00</b>						
<b>Grand total</b>		<b>257,908,098,070.00</b>						



**Table 4. Outstanding of local-currency government bonds**

ISIN	Bond type	Outstanding volume (UAH)	Coupon rate (%)	Payment frequency	Amortisation option	Put option	Next put	Maturity date
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Note: the list of local-currency government bonds may not be complete as it reflects ICU knowledge regarding the outstanding stock of the government bonds, which is published by Ministry of Finance of Ukraine as its website ([http://minfin.gov.ua/control/publish/article/main?art\\_id=274776&cat\\_id=234036](http://minfin.gov.ua/control/publish/article/main?art_id=274776&cat_id=234036)).

Sources: Ministry of Finance, Investment Capital Ukraine LLC.

## 2014 weekly state debt payback

Table 5. Weekly schedule of state bond auctions and volume of state debt\* to be repaid within a 7-day period since auction date (UAH)

Month	Auction details	1st Tuesday	2nd Tuesday	3rd Tuesday	4th Tuesday	5th Tuesday
January	Auction date	1-Jan-13	8-Jan-13	15-Jan-13	22-Jan-13	29-Jan-13
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	0.00
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00
February	Auction date	5-Feb-13	12-Feb-13	19-Feb-13	26-Feb-13	
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	
	Total	0.00	<b>0.00</b>	0.00	0.00	
March	Auction date	5-Mar-13	12-Mar-13	19-Mar-13	26-Mar-13	
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	
	Total	0.00	<b>0.00</b>	0.00	0.00	
April	Auction date	2-Apr-13	9-Apr-13	16-Apr-13	23-Apr-13	30-Apr-13
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	0.00
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	0.00
	Total	0.00	<b>0.00</b>	<b>0.00</b>	0.00	<b>0.00</b>
May	Auction date	30-Apr-13	7-May-13	14-May-13	21-May-13	28-May-13
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	0.00
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	0.00
	Total	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	0.00	0.00
June	Auction date	4-Jun-13	11-Jun-13	18-Jun-13	25-Jun-13	
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	<b>0.00</b>	
July	Auction date	2-Jul-13	9-Jul-13	16-Jul-13	23-Jul-13	30-Jul-13
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	0.00
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00
August	Auction date	6-Aug-13	13-Aug-13	20-Aug-13	27-Aug-13	
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	
September	Auction date	3-Sep-13	10-Sep-13	17-Sep-13	24-Sep-13	
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	
October	Auction date	1-Oct-13	8-Oct-13	15-Oct-13	22-Oct-13	29-Oct-13
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	0.00
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00
November	Auction date	5-Nov-13	12-Nov-13	19-Nov-13	26-Nov-13	
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	
December	Auction date	3-Dec-13	10-Dec-13	17-Dec-13	24-Dec-13	31-Dec-13
	Local debt repayment <sup>1</sup>	0.00	0.00	0.00	0.00	0.00
	External debt repayment <sup>2</sup>	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00

Notes: highlighted data – above UAH1bn in bold font, above UAH4bn shaded in blue; [\*] interest and principal; [1] – government bonds (ordinary bonds, VAT bonds and recapitalisation bonds; [2] – external debt means Eurobonds and loans denominated in local currency by most recent FX rates. Sources: Ministry of Finance of Ukraine, Investment Capital Ukraine LLC.

## 5yr sovereign local debt payback

Table 6. Local-currency bonds repayments for the upcoming 5-year period

Period	Repayments (UAHm)									Repayments, US dollar equivalent (US\$m)								
	Interest			Principal			Total			Interest			Principal			Total		
	Ordin- aries	VATs	Recaps	Ordin- aries	VATs	Recaps	Inte- rest	Prin- cipal		Ordin- aries	VATs	Recaps	Ordin- aries	VATs	Recaps	Inte- rest	Prin- cipal	
<b>BY QUARTERS</b>																		
1Q14	1,414.0	180.8	2,134.7	9,822.9	1,643.6		4,670.8	13,310.5		169.0	21.6	255.2	1,174.3	196.5		558.4	1,591.2	
2Q14	2,972.5		3,137.4	2,752.1		1,598.3	7,529.9	6,031.3		355.3		375.1	329.0		191.1	900.2	721.0	
3Q14	1,555.8	135.6	2,551.4	752.8	1,643.6	1,500.0	5,334.6	9,235.2		186.0	16.2	305.0	90.0	196.5	179.3	637.7	1,104.0	
4Q14	2,950.1		3,371.4	25.8		4,696.5	7,687.0	11,800.2		352.7		403.0	3.1		561.5	918.9	1,410.7	
1Q15	1,389.3	90.4	2,169.8	453.7	1,643.6	2,000.0	4,529.4	10,540.6		166.1	10.8	259.4	54.2	196.5	239.1	541.5	1,260.1	
2Q15	2,821.6		2,833.2	250.8			6,743.5	11,202.3		337.3		338.7	30.0			806.2	1,339.2	
3Q15	1,569.2	45.2	2,560.9	0.8	1,643.6	1,000.0	4,874.8	4,861.7		187.6	5.4	306.2	0.1	196.5	119.5	582.8	581.2	
4Q15	2,846.7		2,961.1	0.8		6,000.0	6,373.5	6,909.8		340.3		354.0	0.1		717.3	761.9	826.0	
1Q16	1,440.6		2,201.9	0.8		2,750.0	4,243.5	8,887.8		172.2		263.2	0.1		328.8	507.3	1,062.5	
2Q16	2,846.7		2,642.4	0.8		9,085.0	6,012.5	9,708.9		340.3		315.9	0.1		1,086.1	718.8	1,160.7	
3Q16	1,440.6		2,071.3	80.8		7,135.0	3,866.5	11,895.6		172.2		247.6	9.7		853.0	462.2	1,422.1	
4Q16	2,830.5		2,245.7				5,574.6	4,228.9		338.4		268.5				666.4	505.5	
1Q17	1,424.4		1,732.4			1,250.0	3,306.6	3,761.0		170.3		207.1			149.4	395.3	449.6	
2Q17	2,830.5		2,245.7	3,688.5		6,357.9	5,406.6	12,766.6		338.4		268.5	440.9		760.1	646.3	1,526.2	
3Q17	1,424.4		1,673.0	1,810.0		6,550.0	3,143.7	8,360.0		170.3		200.0	216.4		783.0	375.8	999.4	
4Q17	2,566.7		1,895.7	5,212.9		7,658.3	4,691.5	17,307.2		306.8		226.6	623.2		915.5	560.8	2,069.0	
1Q18	1,295.0		1,337.9	4,318.9		6,375.0	2,679.1	10,693.9		154.8		159.9	516.3		762.1	320.3	1,278.4	
2Q18	2,194.1		1,435.9	11,845.3		7,157.9	3,692.7	19,003.3		262.3		171.7	1,416.1		855.7	441.4	2,271.8	
3Q18	986.2		1,011.1	5,101.3		10,145.1	2,043.5	15,246.5		117.9		120.9	609.8		1,212.8	244.3	1,822.6	
4Q18	1,349.4		1,066.2	5,108.8		4,655.3	2,478.4	11,437.4		161.3		127.5	610.7		556.5	296.3	1,367.3	
<b>BY YEARS</b>																		
2014	8,892.4	316.4	11,195.0	13,353.6	3,287.2	7,794.8	25,222.3	40,377.2		1,063.0	37.8	1,338.3	1,596.4	393.0	931.8	3,015.2	4,826.9	
2015	8,626.7	135.6	10,525.1	706.0	3,287.2	9,000.0	22,521.2	33,514.3		1,031.3	16.2	1,258.2	84.4	393.0	1,075.9	2,692.3	4,006.5	
2016	8,558.3		9,161.4	82.4		18,970.0	19,697.0	34,721.2		1,023.1		1,095.2	9.8		2,267.8	2,354.7	4,150.8	
2017	8,246.0		7,546.8	10,711.3		21,816.2	16,548.4	42,194.9		985.8		902.2	1,280.5		2,608.0	1,978.3	5,044.2	
2018	5,824.6		4,851.1	26,374.4		28,333.4	10,893.7	56,381.1		696.3		579.9	3,152.9		3,387.1	1,302.3	6,740.1	

Notes: Ordinaries - the government bonds sold via auctions; VATs - VAT bonds; Recaps - recapitalisation bonds.

Sources: Ministry of Finance, Investment Capital Ukraine LLC.

## 5yr sovereign external debt payback

Table 7. Foreign-currency debt\* (Eurobonds and loans) repayments for the upcoming 5-year period

Period	Repayments, hryvnia equivalent (UAHm)						Repayments, US dollar equivalent (US\$m)					
	Interest		Principal		Total		Interest		Principal		Total	
	Eurobond	Loan	Eurobond	Loan	Interest	Principal	Eurobond	Loan	Eurobond	Loan	Interest	Principal
<b>BY QUARTERS</b>												
1Q14	2,039.7	789.4	0.0	8,428.0	2,829.1	8,428.0	255.2	98.8	0.0	1,054.4	353.9	1,054.4
2Q14	2,909.8	1,216.1	7,993.0	8,272.2	4,125.9	16,265.2	364.0	152.1	1,000.0	1,034.9	516.2	2,034.9
3Q14	2,039.7	832.3	0.0	8,788.0	2,872.0	8,788.0	255.2	104.1	0.0	1,099.5	359.3	1,099.5
4Q14	2,592.1	1,119.6	0.0	8,595.3	3,711.6	8,595.3	324.3	140.1	0.0	1,075.3	464.4	1,075.3
1Q15	2,039.7	666.1	0.0	7,498.4	2,705.8	7,498.4	255.2	83.3	0.0	938.1	338.5	938.1
2Q15	2,592.1	845.8	0.0	11,046.0	3,437.9	11,046.0	324.3	105.8	0.0	1,382.0	430.1	1,382.0
3Q15	2,039.7	428.7	3,996.5	1,842.8	2,468.4	5,839.3	255.2	53.6	500.0	230.6	308.8	730.6
4Q15	2,592.1	481.9	30,140.2	990.7	3,074.0	31,130.8	324.3	60.3	3,770.8	123.9	384.6	3,894.8
1Q16	1,902.3	386.0	0.0	5,271.3	2,288.4	5,271.3	238.0	48.3	0.0	659.5	286.3	659.5
2Q16	1,840.1	478.2	9,991.3	595.1	2,318.3	10,586.3	230.2	59.8	1,250.0	74.5	290.0	1,324.5
3Q16	1,902.3	177.9	0.0	1,804.7	2,080.2	1,804.7	238.0	22.3	0.0	225.8	260.3	225.8
4Q16	1,527.9	454.4	7,993.0	3,582.9	1,982.2	11,575.9	191.2	56.8	1,000.0	448.3	248.0	1,448.3
1Q17	1,902.3	98.9	0.0	2,397.9	2,001.2	2,397.9	238.0	12.4	0.0	300.0	250.4	300.0
2Q17	1,264.9	315.5	0.0	2,597.7	1,580.4	2,597.7	158.3	39.5	0.0	325.0	197.7	325.0
3Q17	1,902.3	0.0	20,781.8	0.0	1,902.3	20,781.8	238.0	0.0	2,600.0	0.0	238.0	2,600.0
4Q17	1,264.9	218.8	5,595.1	4,236.3	1,483.7	9,831.4	158.3	27.4	700.0	530.0	185.6	1,230.0
1Q18	941.2	0.0	0.0	0.0	941.2	0.0	117.8	0.0	0.0	0.0	117.8	0.0
2Q18	1,076.1	59.9	0.0	0.0	1,136.0	0.0	134.6	7.5	0.0	0.0	142.1	0.0
3Q18	941.2	0.0	0.0	0.0	941.2	0.0	117.8	0.0	0.0	0.0	117.8	0.0
4Q18	1,076.1	59.9	0.0	1,597.9	1,136.0	1,597.9	134.6	7.5	0.0	199.9	142.1	199.9
<b>BY YEARS</b>												
2014	9,581.3	3,957.3	7,993.0	34,083.4	13,538.6	42,076.4	1,198.7	495.1	1,000.0	4,264.2	1,693.8	5,264.2
2015	9,263.5	2,422.5	34,136.7	21,378.0	11,686.0	55,514.6	1,159.0	303.1	4,270.8	2,674.6	1,462.0	6,945.4
2016	7,172.6	1,496.5	17,984.3	11,254.1	8,669.1	29,238.3	897.4	187.2	2,250.0	1,408.0	1,084.6	3,658.0
2017	6,334.5	633.2	26,376.9	9,231.9	6,967.7	35,608.8	792.5	79.2	3,300.0	1,155.0	871.7	4,455.0
2018	4,034.5	119.8	0.0	1,597.9	4,154.3	1,597.9	504.8	15.0	0.0	199.9	519.7	199.9

Notes: [\*] debt redemptions include also interest payments; debt comprises Eurobonds, IMF and VTB loans; IMF loan is meant all tranches received in 2008-10; [1] redemption of US\$2bn loan to VTB is a worst-case scenario within this loan agreement, it may be prolonged 2 times and this in effect may shift the redemption to 4Q11 or 2Q12.

Sources: Ministry of Finance, IMF, Bloomberg, Reuters, Investment Capital Ukraine LLC.

## Ukraine issuers' credit metrics

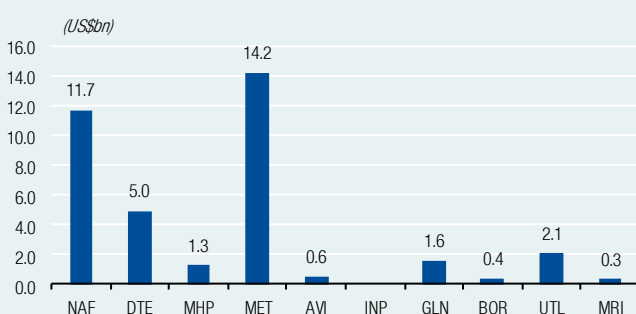
Table 8. Ukrainian corporate bond issuers and their key financial figures and ratios\* (US\$m)

Issuer	Ticker	Filing	Revenues	EBITDA	Int exp	Cash	ST debt	LT debt	Debt	Net debt	EBITDA mrg (%)	Debt/EBITDA (x)	Net debt/EBITDA (x)	EBITDA int cov (x)
Naftogaz of Ukraine	<b>NAFTO</b>	4Q10	11,673.6	502.2	-613.5	333.2	685.2	4,824.9	5,510.1	5,176.9	4.3	11.0	10.3	Neg.
DTEK	<b>DTEKUA</b>	4Q11	4,965.0	1,294.6	60.9	1,304.1	429.4	1,878.3	2,307.7	1,003.6	26.1	1.8	0.8	21.2
MHP	<b>MHPSA</b>	1Q12	1,279.9	416.4	77.2	111.0	210.5	755.3	965.8	854.8	32.5	2.3	2.1	5.4
Metinvest Holding	<b>METINV</b>	4Q11	14,189.0	3,533.0	220.0	792.0	1,147.0	2,834.0	3,981.0	3,189.0	24.9	1.1	0.9	16.1
Avangard	<b>AVINPU</b>	4Q11	553.3	222.1	12.3	237.8	122.5	210.0	332.6	94.8	40.1	1.5	0.4	18.1
Interpipe	<b>INPIP</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concern Galnaftogaz	<b>GLNGUZ</b>	1Q12	1,647.2	96.8	26.3	13.9	136.9	203.9	340.8	326.9	5.9	3.5	3.4	3.7
Boryspil Int'l Airport	<b>BORYS</b>	1Q12	431.4	277.8	2.3	33.8	108.0	212.5	320.5	286.8	64.4	1.2	1.0	122.0
Ukrtelecom	<b>UTLMUZ</b>	2Q12	2,091.2	470.0	103.5	22.3	177.7	194.3	372.1	349.8	22.5	0.8	0.7	4.5
Mriya Agro Holding	<b>MRIYA</b>	3Q11	344.8	42.6	40.1	192.0	96.0	282.2	378.3	186.3	12.4	8.9	4.4	1.1
Ferrexpo	<b>FXPOLN</b>	4Q11	1,788.0	798.0	43.3	890.2	18.9	951.4	970.4	80.2	44.6	1.2	0.1	18.4
Agroton	<b>AGTPW</b>	2Q11	102.1	10.4	0.3	4.2	19.3	1.0	20.3	16.1	10.2	2.0	1.6	31.0
Agromat	<b>AGROM</b>	2Q11	149.7	28.3	16.0	3.3	23.5	30.1	53.5	50.2	18.9	1.9	1.8	1.8
KSG Agro	<b>KSGPW</b>	3Q11	3.2	1.7	-0.7	5.5	5.6	10.7	16.4	10.9	52.8	9.5	6.4	Neg.
IMC	<b>IMCPW</b>	3Q11	5.6	-2.3	0.2	13.4	4.0	18.1	22.1	8.7	Neg.	Neg.	Neg.	Neg.

Notes: [\*] financial figures and appropriate ratios are calculated using LTM data; LTM - last 12-month period; Int exp - interest expenses; ST debt - short-term debt; LT debt - long-term debt; int cov - interest coverage.

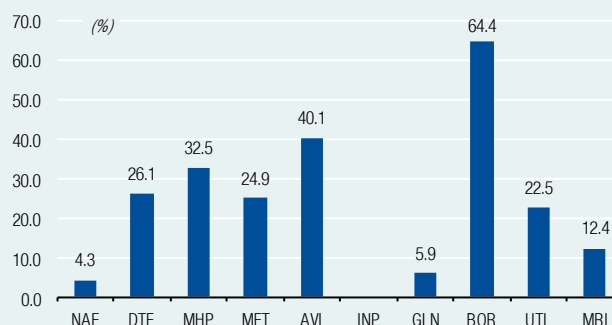
Sources: Company data, Investment Capital Ukraine LLC.

Chart 16. Ukraine's companies by sales (LTM)



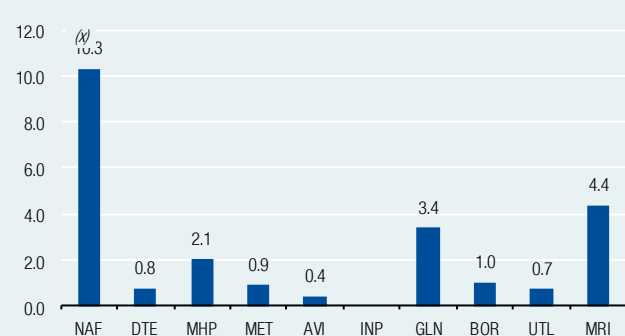
Source: Company data, Investment Capital Ukraine LLC.

Chart 17. Ukraine's companies by EBITDA margin (LTM)



Source: Company data, Investment Capital Ukraine LLC.

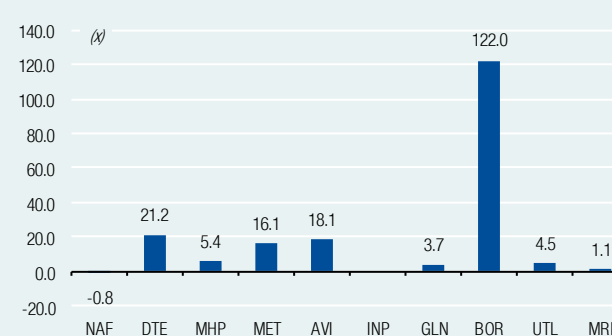
Chart 18. Ukraine's companies by leverage ratio



Note: leverage – net debt to EBITDA (LTM).

Source: Company data, Investment Capital Ukraine LLC.

Chart 19. Ukraine's companies by interest coverage ratio



Note: interest coverage – EBITDA to interest expenses (LTM).

Source: Company data, Investment Capital Ukraine LLC.



# Glossary

The following is the list of terms, phrases and abbreviations that are frequently used in this report's weekly publications.

**Average duration**, or interchangeably, **bond auction average duration**: Duration calculated from all cash flows obtained from the bonds sold at the auction. Yield-to-maturity, price, and each cash flow (coupons and principal) are calculated on a per-bond basis.

**Average yield**, or interchangeably, **bond auction average yield**: A yield-to-maturity calculated from all cash flows obtained from the bonds sold at the auction and versus the total price paid per bond to acquire them. Price and each cash flow (coupons and principal) are calculated on a per-bond basis.

**Basis point**, or interchangeably, **bp**: One-hundredth of a percentage point, or 0.01%.

**BoP**: Balance of payments.

**Certificate(s) of Deposit**, or interchangeably, **CD(s)**: Short-term money market instruments that allow the NBU, the central bank, to absorb excess liquidity from the local banks. Their durations are 2, 3, or up to 5 days; two weeks; one month; 1.5 months; two months; and up to three months.

**CDS**: A Credit default swap; a contract that references the performance of a loan or a bond (sovereign, corporate, or municipal). A CDS is normally quoted in basis points, or hundredths of a percent.

**CRA**: Credit rating agency. These include international industry majors Moody's, Standard & Poor's, and Fitch. It could refer also to other credit rating agencies, including Credit-Rating of Ukraine.

**EFSF**: European Financial Stability Facility (<http://www.efsf.europa.eu>), created on 9 May, 2010 by the euro area member states, as a Luxembourg-registered company owned by Euro Area Member States (EAMS), which has a mandate to lend to the EAMS in times of difficulty, e.g., in bail-outs. For the purpose of its operations, the EFSF is able to issue bonds EAMS-guaranteed for up to €440bn. Thanks to its structure of credit enhancements, including a cash reserve and a loan-specific cash buffer<sup>1</sup>, the EFSF has top credit ratings from major CRAs: 'Aaa' by Moody's, 'AAA' by S&P, and 'AAA' by Fitch.

**MoE**: Ministry of Economy of Ukraine (<http://www.me.gov.ua>).

**MoF**: Ministry of Finance of Ukraine (<http://www.minfin.gov.ua>).

**NBU**: National Bank of Ukraine, the central bank of Ukraine (<http://www.bank.gov.ua>).

**Party of Regions**, or interchangeably, **PoR**: The *de facto* ruling political party in Ukraine currently. It won the presidency in the February 2010 presidential elections with a slim margin over Yulia Tymoshenko's Bloc, then consolidated power in the parliament, where it has a majority over minor loyal factions, while incapable of forming a majority itself. The next elections for Parliament and the president's office are expected to take place in 2012 and 2015, respectively.

<sup>1</sup> For instance, in order to lend €17.7bn to Ireland, the EFSF has to raise around €26.5bn from the financial market.

**Percentage point**, or interchangeably, **ppt**: one percent, 1%.

**Recaps**, or interchangeably, **recapitalisation bonds**: Local-currency bond(s), representing a general financial obligation by the government on par with other government's financial obligations, which was/were issued with the purpose of recapitalising state-owned entities like Naftogaz of Ukraine, commercial banks from Ukreximbank to Oschadbank, and the State Mortgage Institution (SMI).

**UAH**: Ukrainian national currency, the hryvnia.

**UAH TWI**, or interchangeably, **hryvnia trade-weighted index**: Index of the local currency calculated by Investment Capital Ukraine (ICU), which is calculated upon nominal exchanges rates to the US dollar and headline consumer price inflation indices of Ukraine and its 26 trading partners, which as a whole, comprise a 76% share of merchandise trade turnover. Please refer to *ICU Quarterly Report "Ukraine's See-saw Puzzle"* published on 14 July, 2009 for more details on the methodology of the index. There are nominal and real UAH TWIs, the former based on exchange rates, and the latter based on both exchange rates and inflation. There are monthly and daily UAH TWIs, which are tracked by ICU. Monthly TWI calculation is based on the monthly data for inflation and trade statistics as well as monthly average exchange rates. Daily TWI calculation is based on the monthly data for inflation and trade statistics; however, its core substance is to reflect daily movements of the exchange rates of Ukraine's currency as well as of its key trading partners.

**UAS**: Ukrainian accounting standards.

**VATs**, or interchangeably, **VAT bonds**: Local-currency bond(s), representing a general financial obligation by the government on par with other government's financial obligations, which was/were issued in accordance with the government's initiative to offload the government's accumulated arrears on VAT refunds to domestic exporters.

**Weighted-average duration**, or interchangeably, **bond auction weighted-average duration**: Duration calculated from all cash flows obtained from the bonds sold at the auction. Yield-to-maturity, price, and each cash flow (coupons and principal) are calculated for the total number of bonds sold at the auction.

**Weighted-average yield**, or interchangeably, **bond auction weighted-average yield**: A yield-to-maturity calculated from all cash flows obtained from the bonds sold at the auction and against the total price paid to acquire them. Price and each cash flow (coupons and principal) are calculated for the total number of bonds sold at the auction.

**YTM**, or interchangeably, **yield-to-maturity**: The interest rate that creates the present value of cash flows obtained from holding a bond equal to the price of the bond. The YTM factors in coupon income and any capital gain (loss) the investor will realise by holding the bond to maturity. It also takes into consideration the timing of coupon payments and principal repayment, which can be done at the maturity date (for a bullet bond) or in accordance with an amortisation schedule (amortisation bond). The YTM uses an interest-on-interest principle, assuming that coupon income can be reinvested at an interest rate equal to the YTM, and is calculated in accordance with the Ukraine's domestic bond market standard, which is represented by the following formula:

$$Price + AI = \sum_{i=1}^n \frac{CF_i}{(1+YTM)^{\frac{t_i}{365}}},$$

where *Price* and *AI* are clean price and accrued interest of the bond, respectively, as of the date of purchase; *n* is the number of cash flows to be obtained by a bond holder; *CF<sub>i</sub>* is the



cash flow (coupon income, principal repayment) obtained from a bond;  $t_i$  is the number of days between a purchase date and  $i$ -th cash flow date, and  $YTM$  is yield-to-maturity.

**YTW**, or interchangeably, **yield-to-worst**: The same as yield-to-maturity (YTM); however, it is calculated assuming the worst-case scenario under the terms of a bond issue, e.g., the cash flow is trimmed to the earliest possible bond redemption such as due to a call or a put option, embedded into the bond.

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**INVESTMENT CAPITAL UKRAINE**  
INVESTMENT BANKING

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

**CHAIRMAN OF THE BOARD OF DIRECTORS**

**Valeria Gontareva**  
valeria.gontareva@icu.ua

**CORPORATE FINANCE TEL. +38 044 2200120**

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

**Volodymyr Demchyshyn**, Director  
volodymyr.demchyshyn@icu.ua

**Ruslan Kilmukhametov**, Vice-president  
ruslan.kilmukhametov@icu.ua

**FIXED-INCOME 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 Trading  
vitaliy.sivach@icu.ua

**EQUITY SALES AND TRADING TEL. +38 044 2201621**

**Vlad Sinani**, Director, Equities  
vlad.sinani@icu.ua

**Julia Pecheritsa**, International Equity  
Sales  
julia.pecheritsa@icu.ua

**RESEARCH DEPARTMENT TEL. +38 044 2200120**

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

**Alexander Martynenko**  
Senior equity analyst (Metals & Mining)  
alexander.martynenko@icu.ua

**Taras Kotovych**  
Fixed-income analyst  
taras.kotovych@icu.ua

**Lee Daniels, Rolfe Haas**  
Editors

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