

Bond Market Insight

Weekly review: New bond offerings, political situation stabilizes

TUESDAY, 5 AUGUST, 2014

Last week was marked by high volatility. On the one hand, the MoF issued two new domestic bonds, one of military bonds and the other was the second tranche of VAT bonds. On the other hand, the Eurobond market reacted to political instability and approved parliament's vote of confidence for the new PM who had offered his resignation amidst voting stalemates.

Domestic bond market. The MoF issued the second tranche of VAT bonds last Monday. As the offering was less than the maximum volume approved by the Cabinet of Ministers, the MoF can issue a third tranche. Also, at last week's debut offering of military bonds, the MoF sold only a small amount of funds to finance the Ukrainian army.

Domestic liquidity was volatile and declined significantly last week due to low injections and high pressure from month-end tax payments. Moreover, there was a significant reallocation of funds from CDs to banks' correspondent accounts with the NBU.

Eurobond market. Ukrainian Eurobonds were slightly volatile last week with significant increase of short-term end of the yield curve increased significantly. Following the government's resignation, the UKRAIN 6.875% '15 YTM rose above 10.0% only to decline significantly afterward. Although spreads to the benchmark tightened following the PM's resuming leadership, spreads widened even further than they did the week prior.

RESEARCH INSIGHT

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Key market indicators (as of 4 Aug 2014)

	Last close	Weekly chg (%)	YTD chg (%)
Currencies			
USD/UAH (spot)	12.3800	2.19	50.24
USD/UAH (1Y NDF)	14.3150	1.78	51.96
Rates, yields & spreads (%)			
Kiev Prime ON	5.50	0bp	-230bp
Kiev Prime 3M	18.00	0bp	200bp
UAH NDF 1Y	N/A		
Ukraine CDS 5Y	828bp	0bp	12bp
Libor USD 1yr	N/A		
UST 2yr	0.46	-7bp	8bp
UST 10yr	2.48	2bp	-55bp
UKRAINE 17	9.10	48bp	-46bp
UKRAINE 23	8.72	34bp	-33bp
Money market data (UAHbn)			
Accounts at NBU	26.71	0.76	-18.31
NBU CDs outstanding	7.25	-55.14	0.00
Local currency bond market data (UAHbn)			
Govt bond outstanding	306.76	-0.05	23.14
Held by			
NBU	192.02	-0.08	32.56
Banks	82.64	-0.27	3.08
Other residents	15.47	0.60	24.79
Non-residents	16.63	0.73	42.18

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

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

Research team

Taras Kotovych

Market update and news

Domestic bond market

Liquidity declines due to tax payments

Liquidity significantly declined due to tax payments

Broader banking sector liquidity significantly declined last week. It began the week at UAH48.59bn, declined to UAH42.19bn through Wednesday, and recovered slightly to UAH42.59bn at yesterday's close. In broader liquidity, significant funds were reallocated from CDs to banks' correspondent accounts and back to CDs, especially during the last two days of last week. Banks' correspondent accounts with the NBU declined after tax payments to UAH24.86bn last Thursday, while they received UAH1.26bn in CD redemptions and UAH1.98bn in debt repayments, while the NBU attracted only UAH0.93bn in budget proceeds last Wednesday. Other outflows were caused mostly by month-end tax payments.

The decline of made less severe by NBU injections via CD redemptions and ON loans

The NBU tried to support liquidity via CD redemptions and ON loans as it decreased CDs outstanding by UAH4.47bn to UAH10.80bn through last Friday as it issued UAH0.58bn of ON loans last Thursday. These injections supported liquidity, preventing another consecutive daily decline, causing banks' correspondent accounts with the NBU to recover to UAH28.41bn last Friday (please see the left-hand chart below).

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

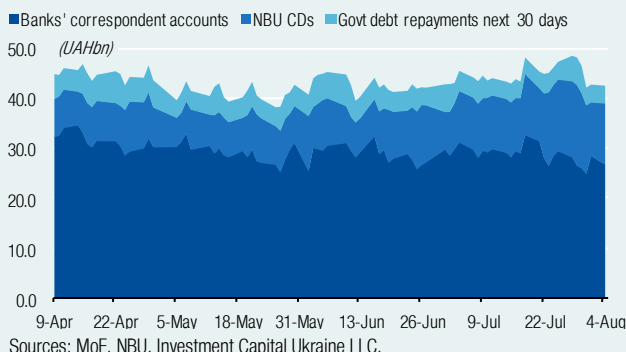
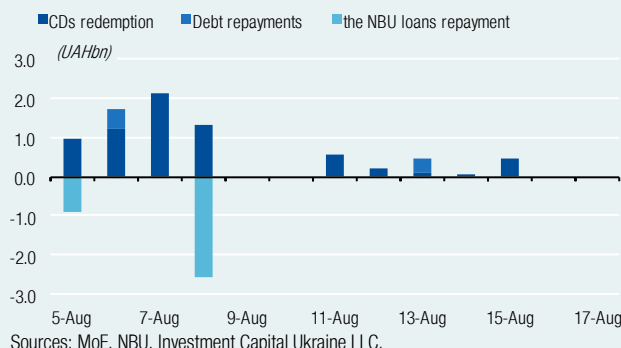


Chart 2. Future redemptions of CDs and UAH state bonds (UAHbn)



As banks have to repay loans to the NBU, liquidity could decline yet again

This week we will see significant inflows in liquidity and also significant outflows from NBU loan repayments. The NBU's scheduled repayments of CDs for this week amount to UAH10.27bn (including yesterday's UAH4.62bn repayment) and only UAH0.48bn of debt repayments in local currency. At the same time, banks have to repay UAH0.88bn of loans today in addition to UAH2.57bn on Friday which will be included in NBU statistics next Monday.

Last week's primary auctions

The MoF held three auctions last week including an offering of military bonds

The MoF held three primary auctions last week, including one offering of military bonds last Thursday. All three auctions attracted demand and provided the MoF with a portion of funds, but mostly bids were supported by the NBU, most likely as some funds were provided from the bond market as the NBU's portfolio decline was insignificant last week despite the large principal repayment.

***Tuesday's auction
provided low market
demand for some
bonds...***

The MoF offered four bonds with maturities from nine months to five years at last Tuesday's primary auction. All of them, excluding the 5-year bond received moderate market demand. Of the five bids that attracted UAH120.32m in total demand, the MoF accepted only three. It rejected two bids for a total of UAH20.00m at 16.50% for the 12-month bond, based on low volume and a high interest rate (which was only 25bp lower than that for the 2-year bond). The 2-year bond sold UAH65.32m (par value) at 16.75% and the 9-month bond sold UAH35.00m at the routine 15.90%. In sum, the auction raised UAH97.18m in budget proceeds.

***...while last Wednesday
we saw likely demand
supported by domestic
QE***

As the MoF was scheduled to repay a significantly higher UAH1.98bn (including UAH1.67bn of principal repayments) in local currency and UAH161.33m in FX, last Thursday the MoF held an additional primary auction to offer the same bonds as it did last Tuesday. At this auction, demand was submitted for the 9-month and 12-month bonds, for UAH0.50bn and UAH0.45bn (par value), respectively. Each bond received one large bid which was accepted by the MoF. Due to the large bid sizes, demand was most likely supported by the NBU via domestic QE or from some investors who refinanced their received funds.

***Small amount of military
bonds was sold at last
Thursday's auction***

Last Thursday the MoF held a third auction, but this time offering only one 2-year "military bond" to raise funds for the Ukrainian army. The MoF sold UAH50.0m of these bonds to one investor who submitted a bid for the bonds at a 7.0% rate.

***This week we could see a
new portion of domestic
QE***

This week's auction likely oriented on domestic QE support, as the MoF has to repay just UAH0.48bn in local currency, but will offer today mostly long-term bonds. The shortest one will be 2-year bond, while also will be offered 5-year and 7-year bonds which did not see market demand yet.

Second tranche of VAT bonds issued

The MoF issued the second tranche of UAH2.17bn in VAT bonds for 199 tax payers this Monday under the same conditions as debut offering, with semi-annual amortisation and coupon payments at a 9.50% rate.

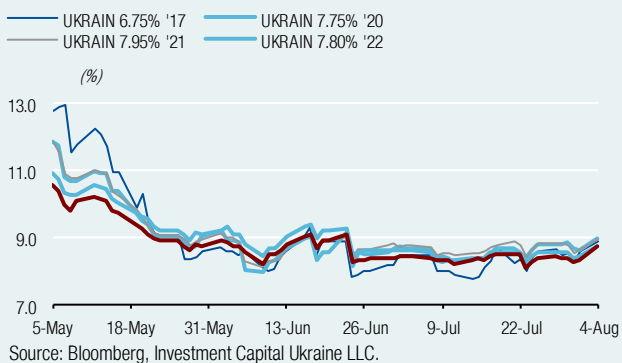
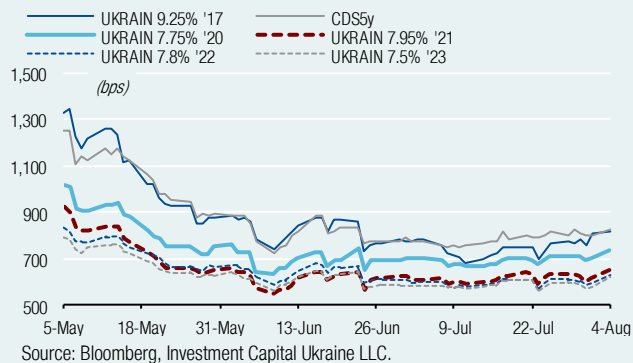
As the second tranche did not offer the highest volume permitted, there could be a third offering if the Ministry of Taxation provides the MoF with a registry of tax payers who will receive the remainder of the full balance.

Eurobond market

Slight volatility on negative anticipations

***Political instability
caused YTM's to increase
last week...***

Ukrainian Eurobonds were slightly volatile last week with significant increase of short-term end of the yield curve increased significantly. Following the government's resignation, the UKRAIN 6.875% '15 YTM rose above 10.0% only to decline significantly afterward. Although spreads to the benchmark tightened following the PM's resuming leadership, spreads widened even further than they did the week prior.

Chart 3. YTM of some Ukrainian Eurobonds**Chart 4. Ukrainian Eurobonds spreads**

**...while this week it could
not have any impact on
Eurobonds YTMs**

Lack of information regarding the second tranche of the IMF loan for Ukraine and ongoing political instability in eastern Ukraine continued to bolster negative sentiment on Ukraine's ability to repay debt,. The shortest term bonds are under the main pressure, making them the most risky. This week, we could see spreads widen as YTMs increase due to the above-mentioned reasons.

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.

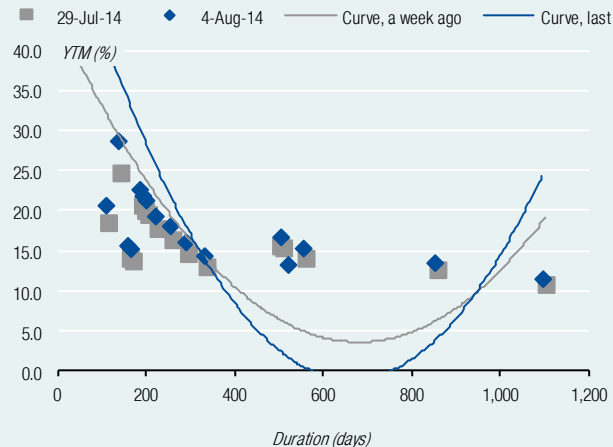
UAH bond market

Table 1. Ukrainian local-currency government bonds as of 4 Aug 2014

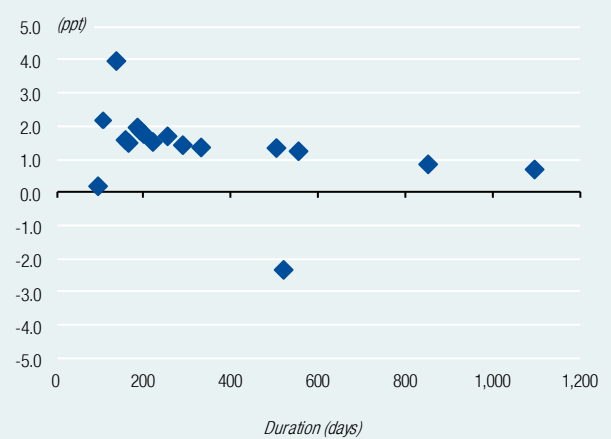
Ticker	Volume (UAHm)	Coupon rate (%)	Maturity	Price (% of par)	YTM (%)	Weekly price chg (bp)	Weekly yield chg (bp)	Duartion (years)	1W daily avg turnover (UAHm)	1W total turnover (UAHm)	Total turnover (UAHm)	Liquidity ratio*
158794	1,875.57	7.5	10-Sep-14	99.438	52.02	0	863	0.10	0.00	0.00	1,681.18	0.90
149231	1,511.45	8.32	19-Nov-14	98.563	20.73	-25	218	0.29	27.33	136.64	2,863.27	1.89
151278	1,821.00	8.5	7-Jan-15	97.938	15.74	-38	161	0.43	0.00	0.00	2,135.54	1.17
000999	238.25	9.6	14-Jan-15	98.313	15.32	-38	152	0.45	0.00	0.00	0.00	0.00
155485	2,705.03	8.09	11-Feb-15	97.500	22.72	-50	199	0.50	0.00	0.00	6,611.51	2.44
157143	619.00	8.02	18-Feb-15	97.375	21.94	-50	188	0.52	0.00	0.00	0.00	0.00
157127	611.77	8.02	25-Feb-15	97.250	21.37	-50	180	0.54	0.00	0.00	2,615.22	4.27
160642	2,499.86	7.75	18-Mar-15	96.875	19.39	-50	155	0.60	46.29	92.58	7,083.88	2.83
142699	3,859.71	9.45	22-Apr-15	97.500	18.17	-75	172	0.69	21.54	107.70	11,738.63	3.04
142681	664.66	4.8	6-May-15	102.438	-0.14	-6	22	0.25	0.00	0.00	0.00	0.00
141071	1,876.21	9.45	27-May-15	97.250	16.17	-75	146	0.79	34.20	171.02	8,085.78	4.31
142673	2,166.50	4.5	17-Jun-15	93.125	28.75	-75	399	0.37	0.00	0.00	0.00	0.00
144083	27.61	9.45	8-Jul-15	96.875	14.46	-88	139	0.90	0.00	0.00	0.00	0.00
152441	3,985.12	8.25	27-Jan-16	94.000	13.35	-125	-231	1.42	0.00	0.00	55.17	0.01
153282	110.31	8.25	3-Feb-16	93.938	16.80	-131	137	1.38	0.00	0.00	71.92	0.65
160923	3,714.00	7.5	16-Mar-16	92.563	157.67	-144	5,214	0.12	0.00	0.00	0.00	0.00
160907	355.12	8	23-Mar-16	93.250	15.40	-138	127	1.52	0.00	0.00	160.48	0.45
160915	3,714.00	8.25	22-Mar-17	92.375	13.58	-150	88	2.33	0.00	0.00	0.00	0.00
151286	6,561.40	7.5	20-Dec-17	90.500	11.59	-163	72	3.00	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.

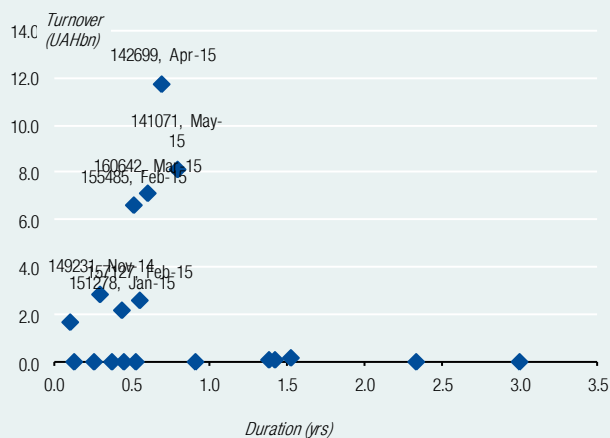
Sources: Bloomberg, PFTS, Investment Capital Ukraine LLC.

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.

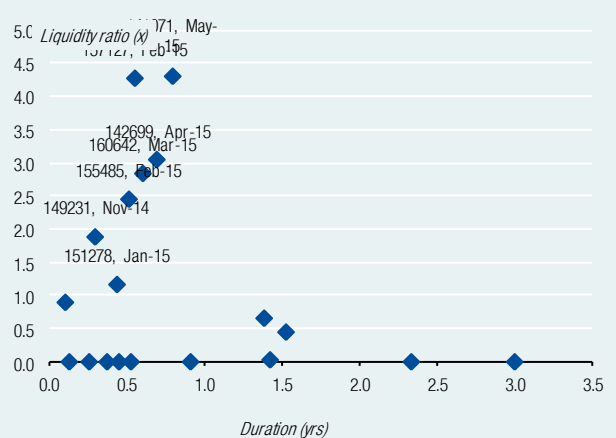
Chart 6. Movement of the local-currency sovereign yield curve*Over last week, in percentage points*

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 4 Aug 2014

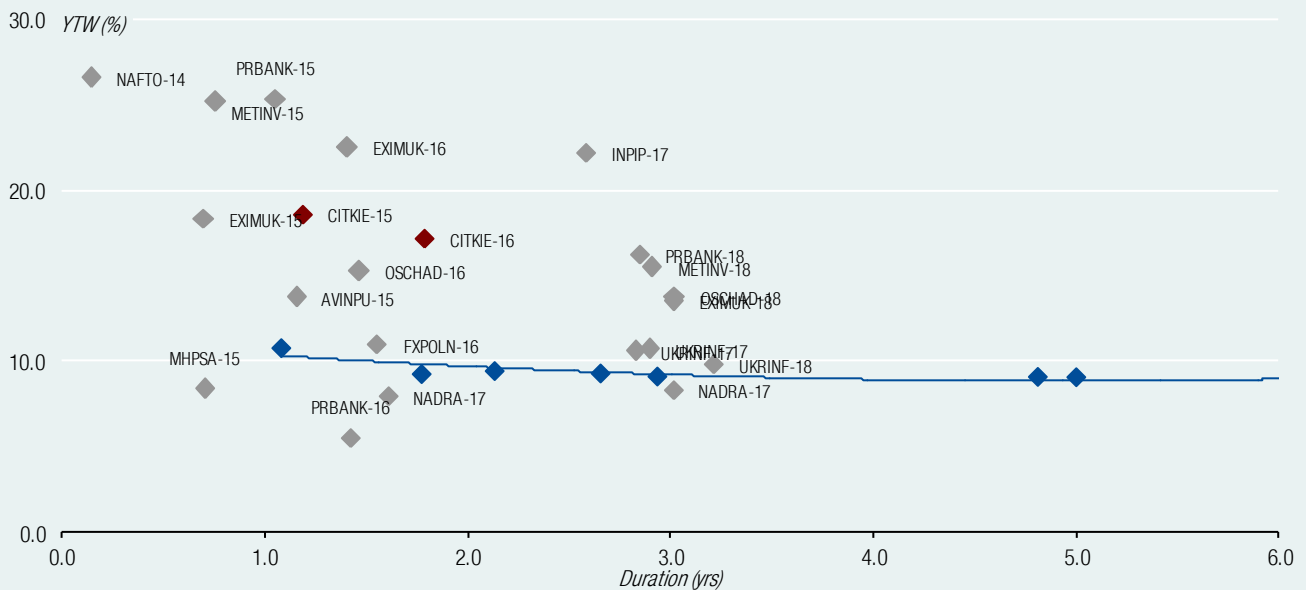
Ticker	Issuer	Ratings	Volume (million)	Curr- ency	Coupon rate (%)	Maturity	Price (% of par)	YTM (%)	Weekly price chg (bp)	Weekly yield chg (bp)	Spread (bp)	Duration (years)
UKRAIN-15	Ministry of Finance	Caa3/CCC/CC C	500.0	USD	6.875	23-Sep-15	96.901	9.84	-31	33	840	1.07
UKRAIN-15	Ministry of Finance	Caa3/CCC/CC C	600.0	EUR	4.95	13-Oct-15	94.817	9.78	-6	10	894	1.13
UKRAIN-16	Ministry of Finance	Caa3/CCC/CC C	1,250.0	USD	6.25	17-Jun-16	95.478	8.94	-91	56	811	1.77
UKRAIN-16	Ministry of Finance	Caa3/CCC/CC C	1,000.0	USD	6.58	21-Nov-16	94.937	9.07	-108	55	820	2.13
UKRAIN-17	Ministry of Finance	Caa3/CCC/CC C	2,600.0	USD	9.25	24-Jul-17	100.380	9.10	-125	48	796	2.65
UKRAIN-17	Ministry of Finance	Caa3/CCC/CC C	700.0	USD	6.75	14-Nov-17	94.045	8.88	-102	38	771	2.93
UKRAIN-20	Ministry of Finance	Caa3/CCC/CC C	1,500.0	USD	7.75	23-Sep-20	94.308	8.97	-73	16	717	4.81
UKRAIN-21	Ministry of Finance	Caa3/CCC/CC C	1,500.0	USD	7.95	23-Feb-21	95.055	8.96	-56	12	633	5.00
UKRAIN-22	Ministry of Finance	Caa3/CCC/CC C	2,250.0	USD	7.8	28-Nov-22	94.497	8.74	-95	17	611	6.10
UKRAIN-23	Ministry of Finance	Caa3/CCC/CC C	1,250.0	USD	7.5	17-Apr-23	92.649	8.72	-197	34	614	6.29
CITKIE-15	Kyiv	Caa3/CCC/CC C	250.0	USD	8	6-Nov-15	89.250	17.98	-206	212	1,689	1.18
CITKIE-16	Kyiv	Caa3/CCC/CC C	300.0	USD	9.375	11-Jul-16	88.625	16.50	-231	157	1,536	1.79
NAFTO-14	Naftogaz of Ukraine	NR/NR/CCC	1,595.0	USD	9.5	30-Sep-14	97.563	26.13	38	-132	2,558	0.14
PUMBUZ-14	FUIB	Caa3/NR/NR	252.5	USD	11	31-Dec-14	89.813	40.10	-25	156	3,925	0.39
EXIMUK-15	Ukreximbank	Caa3/NR/CCC	750.0	USD	8.375	27-Apr-15	93.750	17.95	-69	124	1,708	0.70
DTEKUA-15	DTEK	Caa2/NR/CCC	500.0	USD	9.5	28-Apr-15	88.063	28.84	-238	443	2,714	0.70
MHPSA-15	MHP	Caa2/NR/CCC	584.8	USD	10.25	29-Apr-15	101.875	7.51	-31	40	617	0.70
METINV-15	Metinvest Holding	Caa2/NR/CCC	500.0	USD	10.25	20-May-15	90.563	24.07	-375	589	2,252	0.76
PRBANK-15	Pryvatbank	Caa3u/NR/CC C	200.0	USD	9.375	23-Sep-15	85.813	24.50	-44	66	2,322	1.05
AVINPU-15	Avangard	NR/NR/CCC	200.0	USD	10	29-Oct-15	96.000	13.62	-50	49	1,304	1.15
PRBANK-16	Pryvatbank	Cau/NR/NR	150.0	USD	8.75	9-Feb-16	100.350	5.55	0	0	509	1.42
EXIMUK-16	Ukreximbank	Ca/NR/C	125.0	USD	8.4	9-Feb-16	80.688	21.51	-44	53	2,005	1.41
OSCHAD-16	Oshchadbank	Caa3/NR/CCC	500.0	USD	8.25	10-Mar-16	91.000	14.80	-63	52	1,385	1.47
MRIYA-16	Mriya Agroholding	NR/CCC/CCC	250.0	USD	10.95	30-Mar-16	52.313	60.46	-3,863	4,301	5,729	1.41
FXPOLN-16	Ferrexpo PLC	Caa2/CCC+/C CC	500.0	USD	7.875	7-Apr-16	96.313	10.33	-19	14	923	1.55
NADRA-17	Nadra Bank	WR/NR/WD	41.0	USD	8	22-Jun-17	100.000	7.98	4,000	-4,261	736	1.61
INIP-17	Interpipe	NR/NR/C	200.0	USD	10.25	2-Aug-17	76.063	21.53	-56	35	1,998	2.58
UKRINF-17	Infrastructure Projects Fin	Caa3/NR/NR	538.0	USD	8.375	3-Nov-17	94.750	10.31	0	1	913	2.83
NADRA-17	Nadra Bank	NR/NR/NR	50.0	USD	9.375	5-Dec-17	100.000	8.34	0	3	745	3.01
UKRINF-17	Infrastructure Projects Fin	(P)Caa3/NR/N R	550.0	USD	9	7-Dec-17	95.995	10.45	-123	46	929	2.90
EXIMUK-18	Ukreximbank	Caa3/NR/CCC	500.0	USD	8.75	22-Jan-18	87.688	13.31	-194	78	1,144	3.01
METINV-18	Metinvest Holding	Caa2/NR/CCC	750.0	USD	8.75	14-Feb-18	82.938	15.19	-194	83	1,326	2.91
PRBANK-18	Pryvatbank	Caa3u/NR/CC C	175.0	USD	10.875	28-Feb-18	87.063	15.76	188	-77	1,363	2.84

OSCHAD-18	Oshchadbank	Caa3/NR/CCC	500.0	USD	8.875	20-Mar-18	87.188	13.46	-38	16	1,150	3.02
UKRINF-18	Infrastructure Projects Fin	Caa3/NR/NR	690.0	USD	7.4	20-Apr-18	93.240	9.61	168	-56	776	3.21
OSCHAD-16	Oshchadbank	NR/NR/B	200.0	USD	8.25	10-Mar-16	0.000	0.00	0	0	0	0.00

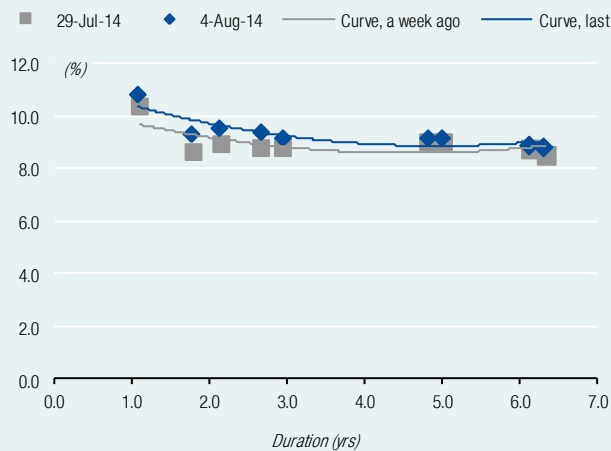
Sources: Bloomberg, Investment Capital Ukraine LLC.

Chart 9. Term structure of yields of Ukrainian Eurobonds as of 4 Aug 2014

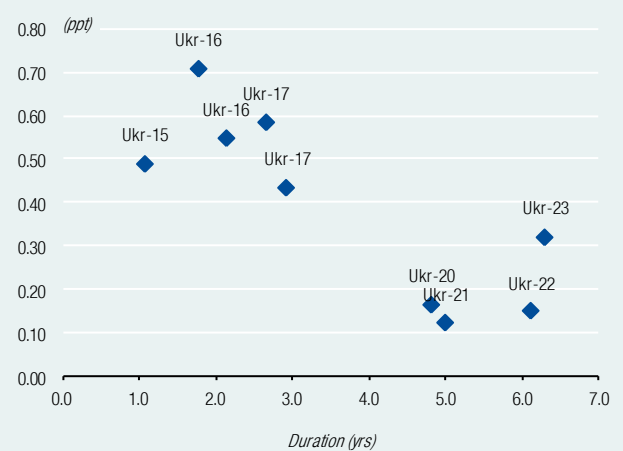
Blue dots are Ukraine sovereign Eurobonds; grey dots are corporate Eurobonds and red ones are municipal Eurobonds

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

Last one compared to 1 week ago

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

Over last week, in percentage points



Primary market for UAH state bonds

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

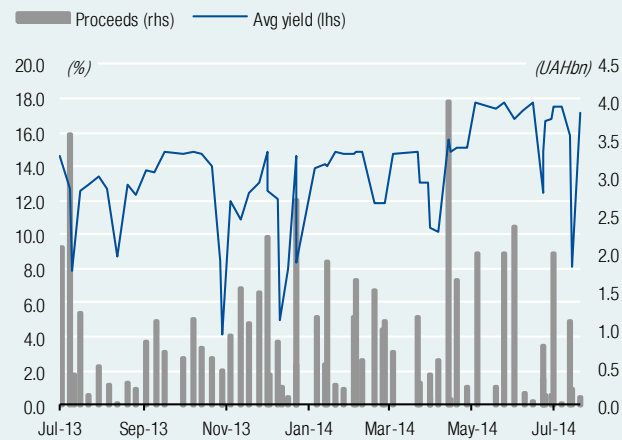
Date	Qty of bonds offered/sold	Proceeds (UAHm)	Volume of bonds sold* (UAHm)	Volume of bids submitted (UAHm)	Qty of bids submitted	Lowest yield asked** (%)	Highest yield asked** (%)	MoF cut-off yield (%)	Qty of bids accepted	Average yield (%)	WA yield (%)	Average duration (years)	WA duration (years)
29-Jul-14	2	97.18	100.32	100.32	3	15.90	16.75	16.33	3	17.13	17.26	1.26	1.41
23-Jul-14	1	200.09	200.00	200.00	1	8.00	8.00	8.00	1	8.14	8.14	0.98	0.98
22-Jul-14	3	1,091.39	1,090.00	1.09	7	14.30	16.75	15.65	7	15.78	15.05	2.02	2.74
15-Jul-14	1	20.00	20.00	20.00	1	16.75	16.75	16.75	1	17.47	17.47	1.78	1.78
9-Jul-14	1	2,000.88	2,000.00	2,000.00	1	16.75	16.75	16.75	1	17.47	17.47	1.78	1.78
8-Jul-14	3	127.39	130.00	130.00	7	12.00	16.95	14.63	7	16.81	17.13	0.81	1.00
3-Jul-14	3	139.02	140.00	140.00	7	8.00	16.95	12.32	7	16.62	16.50	0.69	0.60
2-Jul-14	1	769.00	746.86	746.86	1	14.30	14.30	14.30	1	14.85	14.85	3.52	3.52
1-Jul-14	1	339.83	350.00	350.00	2	12.00	12.00	12.00	2	12.41	12.41	0.25	0.25
24-Jun-14	1	55.17	55.00	55.00	3	16.95	16.95	16.95	3	17.69	17.69	1.76	1.76
17-Jun-14	2	159.59	166.97	176.97	6	15.00	18.00	15.98	5	17.24	16.97	1.16	0.95
10-Jun-14	3	2,351.07	2,362.00	2,392.00	12	12.00	16.95	14.65	9	16.74	17.58	0.86	1.57
3-Jun-14	1	2,000.00	2,000.00	2,020.00	6	16.98	17.50	16.98	4	17.72	17.72	1.78	1.78
27-May-14	2	234.83	215.00	245.00	11	3.00	17.50	10.00	10	17.38	14.62	0.91	0.20
13-May-14	1	2,000.00	1,987.48	1.99	4	17.00	17.00	17.00	4	17.74	17.74	1.74	1.74
6-May-14	2	246.60	100.00	320.00	4	9.95	20.00	12.48	2	15.15	14.96	1.40	1.17
29-Apr-14	2	1,636.78	20.00	1,620.00	7	9.95	16.00	12.48	3	15.11	15.60	1.38	2.42
24-Apr-14	1	74.96	74.73	74.73	1	14.30	14.30	14.30	1	14.85	14.85	3.70	3.70
22-Apr-14	1	4,000.00	4,000.00	4,000.00	4	15.00	15.00	15.00	4	15.59	15.59	2.52	2.52
15-Apr-14	1	587.66	600.00	600.00	1	9.95	9.95	9.95	1	10.21	10.21	0.21	0.21
9-Apr-14	1	391.04	400.00	400.00	1	9.95	9.95	9.95	1	10.34	10.34	0.23	0.23
8-Apr-14	1	103.66	110.00	110.00	2	12.75	12.75	12.75	2	13.09	13.09	0.48	0.48
1-Apr-14	1	282.07	300.00	330.00	4	12.75	23.50	12.75	1	13.08	13.08	0.50	0.50
31-Mar-14	1	1,155.23	1,150.00	1,150.00	3	14.25	14.25	14.25	3	14.80	14.80	2.50	2.50
12-Mar-14	2	684.52	712.08	712.08	3	14.00	14.00	14.00	3	14.71	14.71	0.29	0.29
6-Mar-14	1	1,100.34	1,100.00	1,100.00	1	11.50	11.50	11.50	1	11.86	11.86	3.92	3.92
4-Mar-14	1	1,000.00	1,000.00	1,000.00	1	11.50	11.50	11.50	1	11.86	11.86	3.93	3.93
27-Feb-14	1	1,503.69	1,500.00	1,500.00	1	11.50	11.50	11.50	1	11.86	11.86	3.91	3.91
26-Feb-14	1	1,500.00	1,500.00	1,500.00	1	11.50	11.50	11.50	1	11.86	11.86	3.93	3.93
18-Feb-14	1	600.00	600.00	600.00	1	14.25	14.25	14.25	1	14.84	14.84	3.73	3.73
13-Feb-14	1	1,655.00	1,650.00	1,650.00	1	14.25	14.25	14.25	1	14.80	14.80	3.71	3.71
11-Feb-14	1	1,151.08	1,145.00	1,145.00	2	14.25	14.25	14.25	2	14.79	14.79	3.69	3.69
4-Feb-14	1	209.27	208.71	208.71	2	14.25	14.25	14.25	2	14.79	14.79	3.71	3.71
29-Jan-14	1	273.01	273.01	0.00	2	14.25	14.25	14.25	2	14.80	14.80	3.73	3.73
28-Jan-14	1	10.11	10.00	10.00	1	14.30	14.30	14.30	1	14.85	14.85	4.56	4.56
23-Jan-14	3	1,881.79	688.05	1,958.05	11	8.25	14.25	10.67	10	14.03	14.13	1.48	1.59
21-Jan-14	3	537.93	340.00	540.28	10	5.00	14.25	9.17	7	14.15	14.48	1.41	1.83
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

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

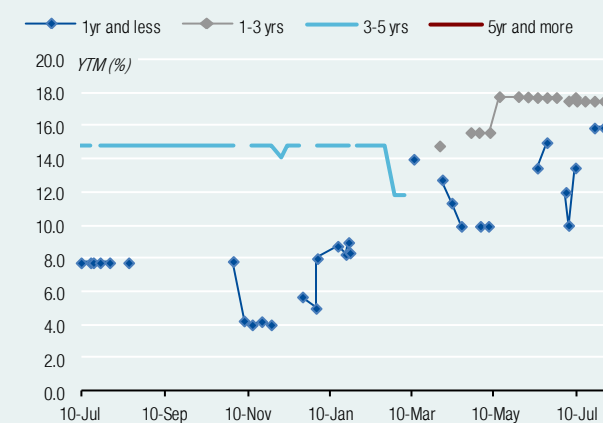
Last 12-month period



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

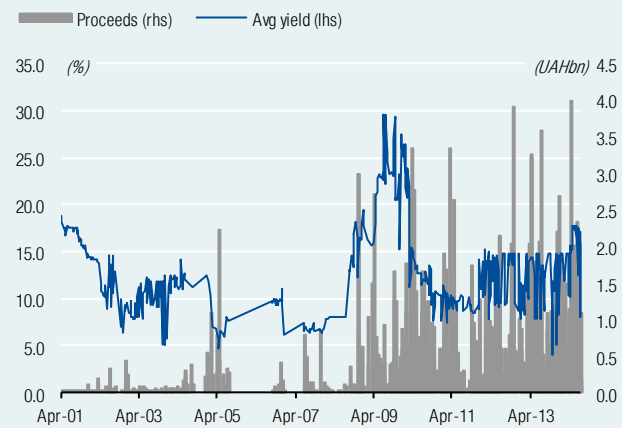
Last 12-month period



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

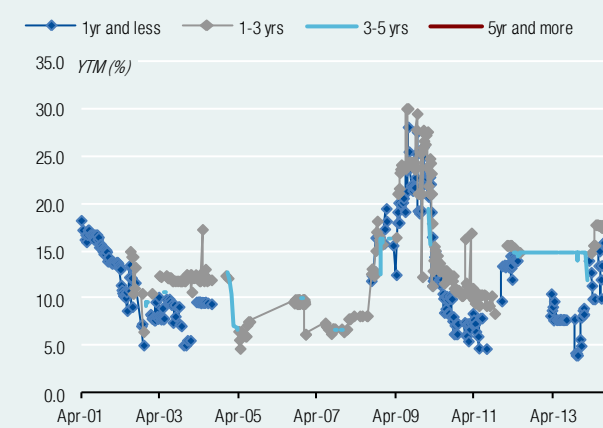
History since April 2001 to present



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
Government UAH bonds								
UA4000184238	Zero-coupon bonds	300,000,000.00	12.00	Upon maturity	No	No		10-Sep-2014
UA4000180210	Zero-coupon bonds	830,000,000.00		Upon maturity	No	No		1-Oct-2014
UA4000178883	Zero-coupon bonds	25,000,000.00		Upon maturity	No	No		15-Oct-2014
UA4000184246	Zero-coupon bonds	182,000,000.00	14.92	Upon maturity	No	No		10-Dec-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
UA4000185383	Zero-coupon bonds	295,000,000.00	15.88	Upon maturity	No	No		15-Apr-2015
UA4000141592	Coupon bonds	250,000,000.00	14.30	Semi-annually	No	No		20-May-2015
UA4000180582	Coupon bonds	1,987,478,000.00	17.00	Semi-annually	No	No		27-Apr-2016
UA4000180772	Coupon bonds	20,000,000.00	17.00	Semi-annually	No	No		18-May-2016
UA4000181275	Coupon bonds	2,000,000,000.00	16.98	Semi-annually	No	No		1-Jun-2016
UA4000184253	Coupon bonds	2,030,000,000.00	16.95	Semi-annually	No	No		8-Jun-2016
UA4000184352	Coupon bonds	211,970,000.00	16.95	Semi-annually	No	No		15-Jun-2016
UA4000185201	Coupon bonds	2,000,000,000.00	16.75	Semi-annually	No	No		6-Jul-2016
UA4000185276	Coupon bonds	165,320,000.00	16.75	Semi-annually	No	No		13-Jul-2016
UA4000106181	Coupon bonds	80,002,000.00	9.50	Quarterly	Yes	Yes	13-Jul-2016	13-Jul-2016
UA4000107528	Coupon bonds	6,300,000.00	12.50	Quarterly	Yes	No		20-Jul-2016
UA4000180202	Coupon bonds	1,150,000,000.00	14.25	Semi-annually	No	No		15-Mar-2017
UA4000180459	Coupon bonds	1,600,000,000.00	15.00	Semi-annually	No	No		29-Mar-2017
UA4000138853	Coupon bonds	1,928,720,000.00	14.30	Semi-annually	No	No		5-Apr-2017
UA4000180400	Coupon bonds	4,000,000,000.00	15.00	Semi-annually	No	No		19-Apr-2017
UA4000180541	Coupon bonds	100,000,000.00	15.00	Semi-annually	No	No		3-May-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	2,077,263,000.00	14.25	Semi-annually	No	No		9-Jan-2019
UA4000179196	Coupon bonds	1,626,723,000.00	14.25	Semi-annually	No	No		23-Jan-2019
UA4000179519	Coupon bonds	1,650,000,000.00	14.25	Semi-annually	No	No		30-Jan-2019
UA4000179691	Coupon bonds	600,000,000.00	14.30	Semi-annually	No	No		13-Feb-2019
UA4000179766	Coupon bonds	1,500,000,000.00	11.50	Semi-annually	No	No		13-Feb-2019
UA4000179741	Coupon bonds	1,500,000,000.00	11.50	Semi-annually	No	No		20-Feb-2019
UA4000179824	Coupon bonds	2,100,000,000.00	11.50	Semi-annually	No	No		27-Feb-2019

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
UA4000180426	Coupon bonds	1,571,589,000.00	14.30	Semi-annually	No	No		10-Apr-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
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
UA4000179170	Coupon bonds	10,000,000.00	14.30	Semi-annually	No	No		23-Dec-2020
UA4000173371	Coupon bonds	330,000,000.00	10.00	Semi-annually	No	No		23-Aug-2023
Total		88,942,116,000.00						

Government recap'n bonds

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
UA4000179576	Coupon bonds	2,500,000,000.00	14.25	Semi-annually	No	No		16-Jan-2018
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

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
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
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
UA4000179535	Coupon bonds	2,500,000,000.00	14.25	Semi-annually	No	No		28-Nov-2018
UA4000179543	Coupon bonds	2,500,000,000.00	14.25	Semi-annually	No	No		5-Dec-2018
UA4000179550	Coupon bonds	2,500,000,000.00	14.25	Semi-annually	No	No		19-Dec-2018
UA4000179568	Coupon bonds	1,066,400,000.00	14.25	Semi-annually	No	No		26-Dec-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
UA4000180798	Coupon bonds	2,500,000,000.00	14.30	Semi-annually	No	No		29-Jul-2020
UA4000063028	Coupon bonds	949,981,000.00	9.50	Semi-annually	No	No		12-Aug-2020
UA4000180806	Coupon bonds	2,500,000,000.00	14.30	Semi-annually	No	No		26-Aug-2020
UA4000180814	Coupon bonds	2,500,000,000.00	14.30	Semi-annually	No	No		30-Sep-2020
UA4000180822	Coupon bonds	2,500,000,000.00	14.30	Semi-annually	No	No		14-Oct-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
Total		130,939,708,000.00						

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
Government VAT bonds 2010								
UA4000078141	Coupon bonds	9,688,000.00	5.50	Semi-annually	Yes	No		27-Jul-2015
UA4000082531	Coupon bonds	614,344,500.00	5.50	Semi-annually	Yes	No		21-Aug-2015
UA4000082622	Coupon bonds	2,491,461,900.00	5.50	Semi-annually	Yes	No		24-Aug-2015
UA4000083059	Coupon bonds	1,810,435,500.00	5.50	Semi-annually	Yes	No		25-Aug-2015
Total		4,925,929,900.00						
Government indexed bonds								
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
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
Total		12,723,100,000.00						
Government foreign-currency bonds								
UA4000158794	Coupon bonds	1,875,570,000.00	7.50	Semi-annually	No	No		10-Sep-2014
UA4000174247	Coupon bonds	996,986,160.00	4.80	Semi-annually	No	Yes	29-Oct-2014	29-Oct-2014
UA4000149231	Coupon bonds	1,511,449,440.00	8.32	Semi-annually	No	No		19-Nov-2014
UA4000173058	Coupon bonds	1,238,000,000.00	7.75	Semi-annually	No	No		26-Nov-2014
UA4000177133	Coupon bonds	2,785,500,000.00	7.88	Semi-annually	No	No		10-Dec-2014
UA4000171649	Coupon bonds	1,228,529,300.00	8.25	Semi-annually	No	No		24-Dec-2014
UA4000151278	Coupon bonds	1,820,998,960.00	8.50	Semi-annually	No	No		7-Jan-2015
UA4000133771	Coupon bonds	238,253,100.00	9.60	Semi-annually	No	No		14-Jan-2015
UA4000155485	Coupon bonds	2,705,030,000.00	8.09	Semi-annually	No	No		11-Feb-2015
UA4000157143	Coupon bonds	619,000,000.00	8.02	Semi-annually	No	No		18-Feb-2015
UA4000157127	Coupon bonds	611,770,080.00	8.02	Semi-annually	No	No		25-Feb-2015
UA4000160642	Coupon bonds	2,499,856,260.00	7.75	Semi-annually	No	No		18-Mar-2015
UA4000142699	Coupon bonds	3,859,712,600.00	9.45	Semi-annually	No	No		22-Apr-2015
UA4000166821	Coupon bonds	3,300,508,000.00	7.75	Semi-annually	No	No		6-May-2015
UA4000142681	Coupon bonds	664,657,440.00	4.80	Semi-annually	No	Yes	6-May-2015	6-May-2015
UA4000141071	Coupon bonds	1,876,213,760.00	9.45	Semi-annually	No	No		27-May-2015
UA4000167837	Coupon bonds	2,150,529,800.00	7.75	Semi-annually	No	No		3-Jun-2015
UA4000142673	Coupon bonds	2,166,500,000.00	4.50	Semi-annually	No	Yes	17-Jun-2015	17-Jun-2015
UA4000144083	Coupon bonds	27,607,400.00	9.45	Semi-annually	No	No		8-Jul-2015
UA4000171409	Coupon bonds	1,292,199,640.00	8.25	Semi-annually	No	No		15-Jul-2015
UA4000185458	Coupon bonds	2,476,000,000.00	8.00	Semi-annually	No	No		22-Jul-2015
UA4000152441	Coupon bonds	3,985,122,000.00	8.25	Semi-annually	No	No		27-Jan-2016

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
UA4000153282	Coupon bonds	110,305,800.00	8.25	Semi-annually	No	No		3-Feb-2016
UA4000160923	Coupon bonds	3,714,000,000.00	7.50	Semi-annually	No	Yes	16-Mar-2016	16-Mar-2016
UA4000160907	Coupon bonds	355,120,300.00	8.00	Semi-annually	No	No		23-Mar-2016
UA4000166847	Coupon bonds	921,691,000.00	8.00	Semi-annually	No	No		25-May-2016
UA4000172506	Coupon bonds	2,795,243,060.00	8.75	Semi-annually	No	No		10-Aug-2016
UA4000177414	Coupon bonds	3,695,430,000.00	7.75	Semi-annually	No	Yes	26-Oct-2016	26-Oct-2016
UA4000177752	Coupon bonds	618,083,880.00	7.75	Semi-annually	No	Yes	30-Nov-2016	30-Nov-2016
UA4000178305	Coupon bonds	1,235,920,160.00	7.75	Semi-annually	No	No		14-Dec-2016
UA4000160915	Coupon bonds	3,714,000,000.00	8.25	Semi-annually	No	No		22-Mar-2017
UA4000166854	Coupon bonds	4,023,500,000.00	7.45	Semi-annually	No	Yes	17-May-2017	17-May-2017
UA4000151286	Coupon bonds	6,561,400,000.00	7.50	Semi-annually	No	No		20-Dec-2017
UA4000177554	Coupon bonds	2,474,972,460.00	7.50	Semi-annually	No	Yes	21-Nov-2018	21-Nov-2018
Total		70,149,660,600.00						
Grand total		307,680,514,500.00						

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).

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	7-Jan-14	14-Jan-14	21-Jan-14	28-Jan-14	
	Local debt repayment ¹	0.00	0.00	0.00	0.00	
	External debt repayment ²	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	
February	Auction date	4-Feb-14	11-Feb-14	18-Feb-14	25-Feb-14	
	Local debt repayment ¹	0.00	0.00	0.00	0.00	
	External debt repayment ²	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	
March	Auction date	4-Mar-14	11-Mar-14	18-Mar-14	25-Mar-14	
	Local debt repayment ¹	0.00	0.00	0.00	0.00	
	External debt repayment ²	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	
April	Auction date	1-Apr-14	8-Apr-14	15-Apr-14	22-Apr-14	29-Apr-14
	Local debt repayment ¹	0.00	0.00	0.00	0.00	0.00
	External debt repayment ²	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00
May	Auction date	6-May-14	13-May-14	20-May-14	27-May-14	
	Local debt repayment ¹	0.00	0.00	0.00	0.00	
	External debt repayment ²	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	
June	Auction date	3-Jun-14	10-Jun-14	17-Jun-14	24-Jun-14	
	Local debt repayment ¹	0.00	0.00	0.00	0.00	
	External debt repayment ²	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	
July	Auction date	1-Jul-14	8-Jul-14	15-Jul-14	22-Jul-14	29-Jul-14
	Local debt repayment ¹	0.00	0.00	0.00	0.00	0.00
	External debt repayment ²	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00
August	Auction date	5-Aug-14	12-Aug-14	19-Aug-14	26-Aug-14	
	Local debt repayment ¹	481,990,114.25	552,161,442.38	1,736,859,173.50	1,117,979,028.96	
	External debt repayment ²	126,293,978.68	218,249,829.13	718,656,398.23	38,761,520.53	
	Total	608,284,092.93	770,411,271.50	2,455,515,571.73	1,156,740,549.48	
September	Auction date	2-Sep-14	9-Sep-14	16-Sep-14	23-Sep-14	30-Sep-14
	Local debt repayment ¹	313,825,000.00	2,548,636,214.50	797,486,882.58	2,126,357,791.00	1,300,580,000.00
	External debt repayment ²	0.00	1,832,862,420.81	1,235,305,251.18	2,074,298,946.68	0.00
	Total	313,825,000.00	4,381,498,635.31	2,032,792,133.76	4,200,656,737.68	1,300,580,000.00
October	Auction date	7-Oct-14	14-Oct-14	21-Oct-14	28-Oct-14	
	Local debt repayment ¹	2,293,208,150.00	865,794,358.50	1,232,033,358.35	2,044,685,145.84	
	External debt repayment ²	1,372,210,497.50	546,600,984.38	171,777,099.21	765,781,674.26	
	Total	3,665,418,647.50	1,412,395,342.88	1,403,810,457.56	2,810,466,820.10	
November	Auction date	4-Nov-14	11-Nov-14	18-Nov-14	25-Nov-14	
	Local debt repayment ¹	1,644,654,197.31	2,152,816,298.50	2,280,941,424.20	2,014,109,117.41	
	External debt repayment ²	252,331,066.47	382,999,665.75	2,007,679,826.05	3,668,531,828.61	
	Total	1,896,985,263.78	2,535,815,964.24	4,288,621,250.26	5,682,640,946.02	
December	Auction date	2-Dec-14	9-Dec-14	16-Dec-14	23-Dec-14	30-Dec-14
	Local debt repayment ¹	1,095,798,287.60	3,648,668,160.00	2,520,318,979.70	1,863,696,133.63	514,467,890.00
	External debt repayment ²	101,051,450.40	2,727,057,903.17	2,469,982,285.77	2,471,217,507.00	0.00
	Total	1,196,849,738.00	6,375,726,063.17	4,990,301,265.47	4,334,913,640.62	514,467,890.00

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	Inter- est	Prin- cipal	Ordin- aries	VATs	Recaps	Ordin- aries	VATs	Recaps	Inter- est	Prin- cipal
BY QUARTERS																
3Q14	1,347.9	135.2	1,789.8	300.0	1,638.7		4,251.0	5,424.3	109.2	11.0	145.0	24.3	132.8		344.5	439.6
4Q14	4,021.1		4,252.8	1,037.8		4,696.5	10,151.9	15,319.9	325.9		344.6	84.1		380.6	822.7	1,241.5
1Q15	2,289.9	90.4	2,705.4	453.7	1,643.6	2,000.0	6,387.6	13,292.2	185.6	7.3	219.2	36.8	133.2	162.1	517.6	1,077.2
2Q15	3,891.9		3,725.1	545.8			9,122.7	16,033.9	315.4		301.9	44.2			739.3	1,299.3
3Q15	2,590.5	45.2	3,172.6	0.8	1,643.6	1,000.0	6,818.1	7,765.2	209.9	3.7	257.1	0.1	133.2	81.0	552.5	629.3
4Q15	3,797.7		3,929.0	0.8		6,000.0	8,532.3	6,909.8	307.8		318.4	0.1		486.2	691.4	560.0
1Q16	2,461.2		2,737.6	0.8		2,750.0	5,993.3	11,532.3	199.4		221.8	0.1		222.9	485.7	934.5
2Q16	3,797.7		3,610.3	6,250.2		9,085.0	8,171.3	16,256.9	307.8		292.6	506.5		736.2	662.2	1,317.4
3Q16	2,461.2		2,606.9	2,246.1		7,135.0	5,511.9	14,966.4	199.4		211.3	182.0		578.2	446.7	1,212.8
4Q16	3,251.0		3,213.5				7,191.0	6,026.4	263.5		260.4				582.7	488.4
1Q17	2,263.6		2,268.0	2,750.0		1,250.0	4,731.1	7,714.0	183.4		183.8	222.9		101.3	383.4	625.1
2Q17	3,251.0		3,213.5	7,788.5		6,357.9	6,953.3	18,169.9	263.5		260.4	631.2		515.2	563.5	1,472.4
3Q17	2,061.7		2,208.7	1,810.0		6,550.0	4,316.6	8,360.0	167.1		179.0	146.7		530.8	349.8	677.5
4Q17	2,679.8		2,863.5	5,212.9		7,658.3	5,882.2	19,432.5	217.2		232.1	422.4		620.6	476.7	1,574.8
1Q18	1,932.3		1,873.5	4,318.9		8,875.0	3,852.1	13,193.9	156.6		151.8	350.0		719.2	312.2	1,069.2
2Q18	2,307.2		2,403.7	11,845.3		7,157.9	4,803.7	19,003.3	187.0		194.8	959.9		580.1	389.3	1,540.0
3Q18	1,623.5		1,368.6	5,101.3		10,145.1	3,038.3	15,246.5	131.6		110.9	413.4		822.1	246.2	1,235.5
4Q18	1,462.5		2,034.1	5,108.8		13,221.7	3,589.4	20,805.5	118.5		164.8	414.0		1,071.5	290.9	1,686.0
BY YEARS																
2014	5,369.0	135.2	6,042.6	1,337.8	1,638.7	4,696.5	14,402.9	20,744.2	435.1	11.0	489.7	108.4	132.8	380.6	1,167.2	1,681.1
2015	12,569.9	135.6	13,532.0	1,001.0	3,287.2	9,000.0	30,860.6	44,001.0	1,018.6	11.0	1,096.6	81.1	266.4	729.3	2,500.9	3,565.7
2016	11,971.1		12,168.3	8,497.1		18,970.0	26,867.5	48,782.0	970.1		986.1	688.6		1,537.3	2,177.3	3,953.2
2017	10,256.2		10,553.7	17,561.3		21,816.2	21,883.2	53,676.4	831.1		855.2	1,423.1		1,767.9	1,773.4	4,349.8
2018	7,325.4		7,679.9	26,374.4		39,399.8	15,283.5	68,249.2	593.6		622.4	2,137.3		3,192.9	1,238.5	5,530.7

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
BY QUARTERS												
3Q14	1,573.5	890.5	0.0	3,780.4	2,464.0	3,780.4	134.9	76.4	0.0	324.2	211.3	324.2
4Q14	3,819.0	1,785.5	0.0	11,332.6	5,604.6	11,332.6	327.5	153.1	0.0	971.9	480.6	971.9
1Q15	2,975.7	1,192.1	0.0	10,015.2	4,167.8	10,015.2	255.2	102.2	0.0	858.9	357.4	858.9
2Q15	3,819.0	1,399.8	0.0	15,002.3	5,218.8	15,002.3	327.5	120.0	0.0	1,286.6	447.6	1,286.6
3Q15	2,975.7	852.9	5,830.4	4,566.0	3,828.6	10,396.4	255.2	73.1	500.0	391.6	328.3	891.6
4Q15	3,819.0	878.7	41,143.6	990.7	4,697.7	42,134.3	327.5	75.4	3,528.4	85.0	402.9	3,613.3
1Q16	2,775.3	700.5	0.0	7,690.3	3,475.8	7,690.3	238.0	60.1	0.0	659.5	298.1	659.5
2Q16	2,792.0	874.9	14,576.0	868.1	3,666.9	15,444.2	239.4	75.0	1,250.0	74.5	314.5	1,324.5
3Q16	2,775.3	397.2	0.0	2,632.9	3,172.4	2,632.9	238.0	34.1	0.0	225.8	272.1	225.8
4Q16	2,336.5	840.2	11,660.8	5,227.1	3,176.7	16,887.9	200.4	72.1	1,000.0	448.3	272.4	1,448.3
1Q17	2,775.3	281.6	0.0	3,498.2	3,056.9	3,498.2	238.0	24.2	0.0	300.0	262.2	300.0
2Q17	1,952.8	637.6	0.0	3,789.8	2,590.4	3,789.8	167.5	54.7	0.0	325.0	222.1	325.0
3Q17	2,775.3	137.7	30,318.1	0.0	2,912.9	30,318.1	238.0	11.8	2,600.0	0.0	249.8	2,600.0
4Q17	1,952.8	481.3	8,162.6	6,180.2	2,434.1	14,342.8	167.5	41.3	700.0	530.0	208.7	1,230.0
1Q18	1,373.1	106.9	0.0	0.0	1,480.0	0.0	117.8	9.2	0.0	0.0	126.9	0.0
2Q18	1,677.4	218.9	0.0	0.0	1,896.3	0.0	143.8	18.8	0.0	0.0	162.6	0.0
3Q18	1,373.1	76.7	0.0	0.0	1,449.7	0.0	117.8	6.6	0.0	0.0	124.3	0.0
4Q18	1,677.4	188.5	0.0	2,331.2	1,865.8	2,331.2	143.8	16.2	0.0	199.9	160.0	199.9
BY YEARS												
2014	5,392.5	2,676.1	0.0	15,113.1	8,068.6	15,113.1	462.4	229.5	0.0	1,296.1	691.9	1,296.1
2015	13,589.5	4,323.5	46,974.0	30,574.2	17,913.0	77,548.2	1,165.4	370.8	4,028.4	2,622.0	1,536.2	6,650.3
2016	10,679.0	2,812.8	26,236.8	16,418.3	13,491.8	42,655.2	915.8	241.2	2,250.0	1,408.0	1,157.0	3,658.0
2017	9,456.2	1,538.1	38,480.7	13,468.2	10,994.3	51,949.0	810.9	131.9	3,300.0	1,155.0	942.8	4,455.0
2018	6,100.8	591.0	0.0	2,331.2	6,691.8	2,331.2	523.2	50.7	0.0	199.9	573.9	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

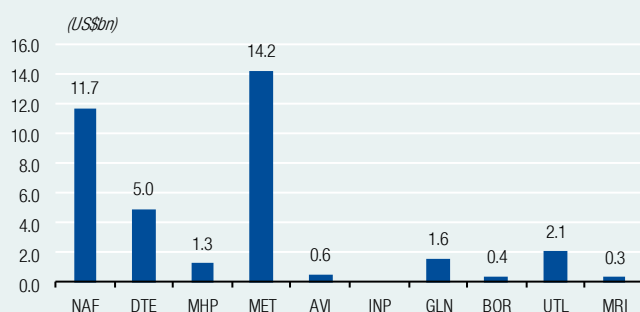
Table 8. Ukrainian corporate bond issuers and their key financial figures and ratios* (US\$m)

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	NAFTO	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	DTEKUA	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	MHPSA	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	METINV	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	AVINPU	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	INPIP	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	GLNGUZ	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	BORYS	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	UTLMUZ	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	MRIYA	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	FXPOLN	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	AGTPW	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	AGROM	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	KSGPW	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	IMCPW	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.

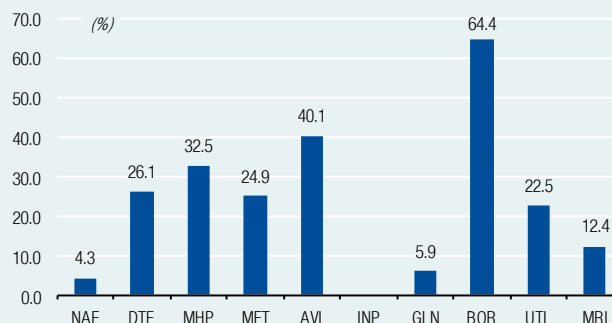
Sources: Company data, Investment Capital Ukraine LLC.

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



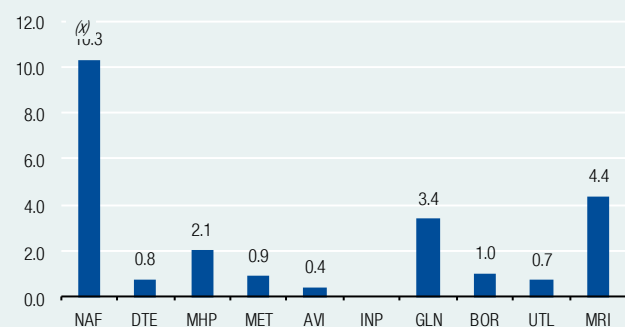
Source: Company data, Investment Capital Ukraine LLC.

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



Source: Company data, Investment Capital Ukraine LLC.

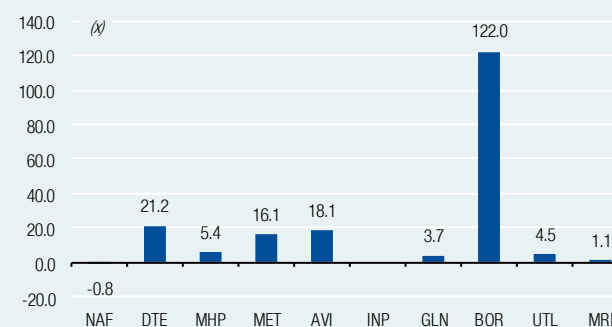
Chart 18. Ukraine's companies by leverage ratio



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 buffer¹, 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.

¹ 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_i* 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

CORPORATE FINANCE TEL. +38 044 2200120

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

Volodymyr Demchyshyn, Director
volodymyr.demchyshyn@icu.ua

Ruslan Kilmukhametov, Director
ruslan.kilmukhametov@icu.ua

SALES AND TRADING TEL. +38 044 2201621

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

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

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

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

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

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

RESEARCH DEPARTMENT TEL. +38 044 2200120

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

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

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

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

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

Lee Daniels, Rolfe Haas
Editors

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