



# Bond Market Insight

## High risks and negative anticipations

**Ukraine remains under the pressure of negative anticipations caused by high yields and highly limited access to financing. The further depreciation of the hryvnia and significant decline in FX reserves caused a significant hike in domestic bond yields.**

**Domestic bond market.** Banking sector liquidity significantly recovered following month-end tax payments at the end of October. Although the broader liquidity indicator rose above UAH50.0bn last week, rates remained high and the KyivPrime ON interest rate rose to 10.0% yesterday, just 50bp lower than it was at the end of October.

Moreover, as the primary auctions failed to attract market demand, the MoF only has domestic QE support to finance the state budget deficit and expenditures, as exemplified last week by the two unscheduled auctions to attract UAH1.95bn of financing. The NBU increased its portfolio by UAH0.97bn.

**Eurobond market.** Although Ukrainian Eurobond YTM's slightly declined following the conclusion of Parliamentary elections at the end of October, spreads widened once more and benchmark yield also rose last week, causing the yield curve to move above 11.0%. The dubious ceasefire in eastern Ukraine, rampant rumours of Russian support of the separatists, depleting FX reserves, and a possible postponement of IMF loans are ongoing investment risks.

TUESDAY, 11 NOVEMBER 2014

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#### Glossary

#### Key market indicators (as of 10 Nov 2014)

	Last close	Weekly chg (%)	YTD chg (%)
<b>Currencies</b>			
USD/UAH (spot)	14.8540	14.23	80.27
USD/UAH (1Y NDF)	15.7500	0.00	67.20
<b>Rates, yields &amp; spreads (%)</b>			
Kiev Prime ON	10.00	30bp	220bp
Kiev Prime 3M	18.00	0bp	200bp
UAH NDF 1Y	N/A		
Ukraine CDS 5Y	1bp	79bp	515bp
Libor USD 1yr	N/A		
UST 2yr	0.53	2bp	16bp
UST 10yr	2.36	3bp	-67bp
UKRAINE 17	15.54	117bp	598bp
UKRAINE 23	11.17	56bp	213bp
<b>Money market data (UAHbn)</b>			
Accounts at NBU	32.78	17.66	0.23
NBU CDs outstanding	15.25	9.05	0.00
<b>Local currency bond market data (UAHbn)</b>			
Govt bond outstanding	403.64	2.04	62.03
Held by			
NBU	279.62	0.71	93.04
Banks	87.89	5.35	9.64
Other residents	15.47	-0.48	24.76
Non-residents	20.66	8.97	76.61

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

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

# Market update and news

## Domestic bond market

### Liquidity slightly increased due to injections

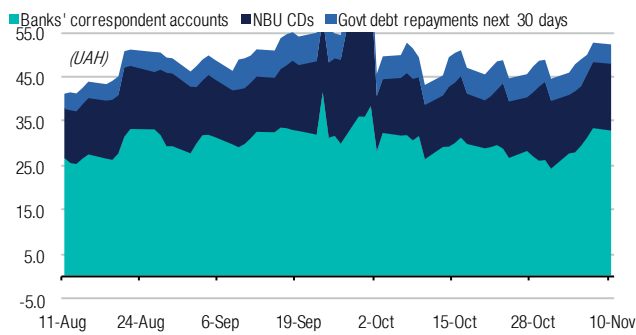
*Liquidity recovered after falling at the end of October*

After month-end tax payments were made at the end of October, banks' correspondent accounts with the NBU fell to UAH24.18bn on 31 October, but rose with low support through last Friday by UAH9.14bn to UAH33.32bn. The NBU continued to absorb extra liquidity via CDs: total CDs outstanding recovered to above UAH15.0bn after slightly declining at the beginning of November (see the left-hand chart below). At the same time, the MoF made large debt repayments which were refinanced via domestic QE support (see comments below).

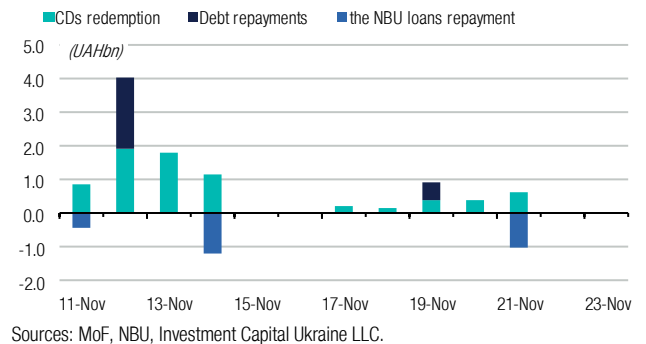
*The NBU issued large loans and purchased several new bonds*

During the first business week of November, the NBU increased its ON loans by UAH1.19bn to UAH1.34bn last Friday, while it issued UAH1.90bn of 51-day notes to 14 banks last Wednesday. At the same time, the NBU increased its government bond portfolio by only UAH0.97bn but still contained more than 70% of the total domestic debt in its portfolio (see comments below).

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



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



*Debt repayments should be mostly refinanced*

UAH5.74bn in CD redemptions (excluding yesterday's repayments) and UAH2.16bn in local currency debt repayments are scheduled this week. While we do not anticipate that these funds will significantly increase banks' correspondent accounts with the NBU, the CD redemptions should be refinanced by the NBU while the MoF repayment should be partially received by banks. Debt repayments could be refinanced using domestic QE, while part of funds could be received by the NBU as the largest bondholder.

### Last week's primary auctions

*The MoF held auctions three times last week to refinance debt repayments...*

Of the three primary auctions held last week, only last Tuesday's was originally scheduled. However, as it attracted no demand and was cancelled and had to repay UAH1.86bn on Wednesday (of which UAH1.72bn was in local currency), the MoF fulfilled these repayments and held two additional auctions last week to replenish the funds.

*...selling two bonds to receive UAH1.95bn of proceeds*

The MoF offered a 2-year bond last Thursday for which it both received and fulfilled two bids for UAH936.0m at 16.52% for a total UAH936.41m in proceeds. The following day, it offered a 10-year bond which attracted one bid for UAH1.0bn at 15.50%. In sum, the MoF collected UAH1.95bn of budget financing, fully covering last week's debt repayments.

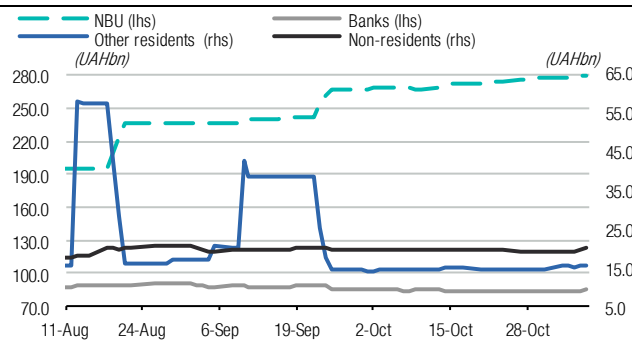
As bids were submitted at low interest rates for large volumes, the auctions most likely were supported by domestic QE, as has been the routine over the last few months.

**Bondholders' structure**

*The NBU holds 70% of domestic debt*

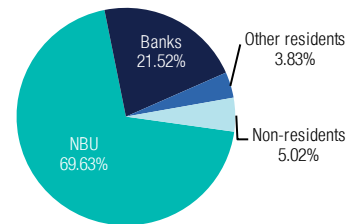
The NBU increased its portfolio many times at the end of October, pushing its share in total bonds outstanding to 70.48% on 31 October. However, last week, due to the increase in non-residents' and banks' portfolios, which most likely occurred as a result of the hryvnia's devaluation, the NBU's share slightly declined to 69.63% last Friday. The non-residents' share is steady at about 5.0% as other residents' hold less than 4% of total bonds outstanding. The banks' share has been slightly above 21% since October. For details, please see the charts below.

**Chart 3. UAH state bondholders' portfolios (last 3 months)**



Notes: other residents' and non-residents' data is plotted against the right-side axis, all other groups of bondholders are plotted against the left-side axis.  
Sources: National Bank of Ukraine, Investment Capital Ukraine LLC.

**Chart 4. Breakdown of government bondholders (07 November, 2014)**



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

*The NBU's portfolio amounts to UAH278.62bn*

The NBU purchased UAH0.97bn of bonds last week, an insignificant volume relative to its UAH278.62bn portfolio. The significant weakening of the hryvnia caused slight volatility in shares, as mentioned above.

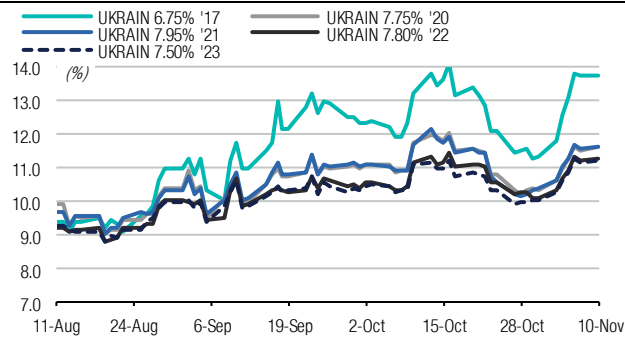
**Eurobond market**

**YTM's increase slightly**

*Yields rose last week due to spreads widening and the benchmark yield rising*

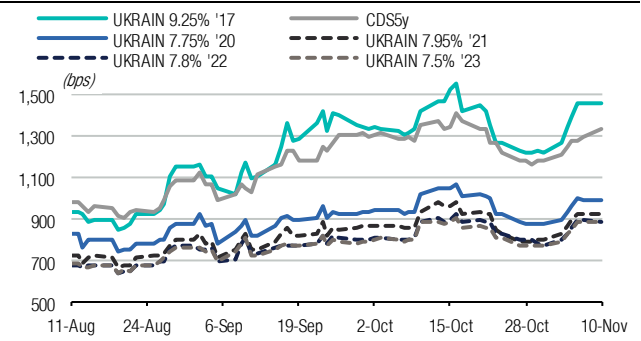
After a significant spread tightening and decline in yields at the end of October, spreads slightly widened last week and have remained mostly steady at about 890-2,100bp (depending on bond maturity) since last Thursday. The most risky bonds are the ones with the shortest maturity (those with redemptions next year). At the same time, the recent increase in Ukrainian Eurobond YTM's was also caused by the rise in US Treasury bond yields. As of mid-October, the 5-year US Treasury yield was about 1.40%, which rose to 1.68% last Thursday, and then slightly declined last Friday.

**Chart 5. YTM of some Ukrainian Eurobonds**



Source: Bloomberg, Investment Capital Ukraine LLC.

**Chart 6. Ukrainian Eurobonds spreads**



Source: Bloomberg, Investment Capital Ukraine LLC.

Ukrainian Eurobonds are highly dependent on both US Treasury yields as well as Ukraine’s economic and geo-political developments. The lack of positive news and high anticipations of negative outcomes for debt restructurings are the main risks that concern investors.

**FUIB to restructure its Eurobonds**

FUIB has offered its bondholders to restructure its US\$252m 11% bond due December 31, 2014. As anticipated, the bank’s proposition followed Eurobond restructurings offered by other companies that belong to SCM Group.

If agreed upon at the special meeting, bondholders will be able to exchange their notes for a new 4-year series which will mature in December 2018 and a 10-15% redemption. The bondholders’ meeting has been scheduled on November 27.

Although the Eurobond debt amounts to 9.8% of the bank’s total 3Q14 liabilities, the current FX deficit in Ukraine makes significant outflows of foreign currency very unfavourable.

## 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 domestic government bonds as of 10 Nov 2014

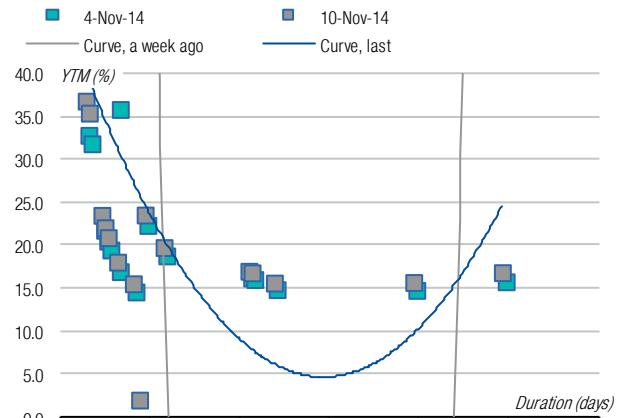
Ticker	Volume (UAHm)	Coupon rate (%)	Maturity	Price (% of par)	YTM (%)	Weekly price chg (bp)	Weekly yield chg (bp)	Duortion (years)	1W daily avg turnover (UAHm)	1W total turnover (UAHm)	Total turnover (UAHm)	Liquidity ratio*
151278	2,184.90	8.5	7-Jan-15	99.187	36.79	0	399	0.16	0.00	0.00	3,489.15	1.60
000999	285.87	9.6	14-Jan-15	99.271	35.39	-2	357	0.18	0.00	0.00	0.00	0.00
155485	3,245.60	8.09	11-Feb-15	98.602	23.48	-4	174	0.25	12.89	51.55	6,977.92	2.15
157143	742.70	8.02	18-Feb-15	98.487	22.04	-5	157	0.27	0.00	0.00	0.00	0.00
157127	734.03	8.02	25-Feb-15	98.385	20.88	-6	144	0.29	0.00	0.00	2,666.48	3.63
160642	2,999.42	7.75	18-Mar-15	98.009	18.03	-7	111	0.35	0.00	0.00	10,186.75	3.40
142699	4,631.03	9.45	22-Apr-15	98.196	15.51	-14	96	0.45	0.67	2.67	14,456.05	3.12
142681	738.01	4.8	6-May-15	101.447	1.95	1	-300,497	0.48	0.00	0.00	0.00	0.00
141071	2,251.15	9.45	27-May-15	98.069	23.52	-18	122	0.52	0.00	0.00	9,411.76	4.18
142673	2,599.45	4.5	17-Jun-15	95.068	105.12	-14	2,185	0.10	0.00	0.00	0.00	0.00
144083	33.12	9.45	8-Jul-15	97.626	19.72	-23	98	0.63	0.00	0.00	0.00	0.00
152441	4,781.50	8.25	27-Jan-16	93.767	16.96	-50	79	1.15	0.00	0.00	55.17	0.01
153282	132.35	8.25	3-Feb-16	93.656	16.78	-51	79	1.17	0.00	0.00	71.92	0.54
160923	4,456.20	7.5	16-Mar-16	92.147	40.24	-57	442	0.35	0.00	0.00	0.00	0.00
160907	426.09	8	23-Mar-16	92.635	15.59	-60	77	1.31	0.00	0.00	2,419.55	5.68
160915	4,456.20	8.25	22-Mar-17	87.900	15.65	-132	92	2.16	0.00	0.00	0.00	0.00
151286	7,872.62	7.5	20-Dec-17	82.340	16.80	-186	107	2.70	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 7. Shape of the local-currency sovereign yield curve**

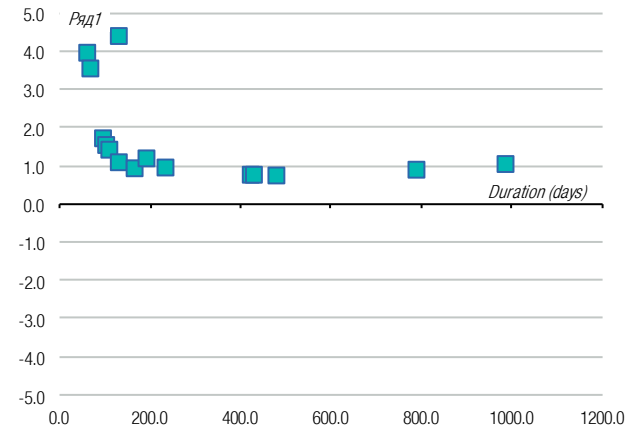
*Last one compared to 1 week ago*



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

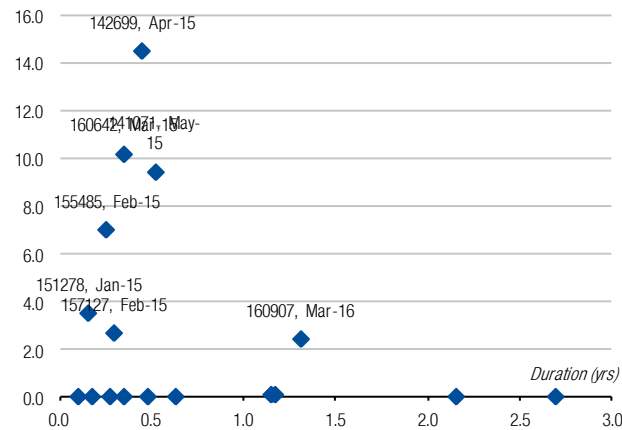
**Chart 8. Movement of the local-currency sovereign yield curve**

*Over last week, in percentage points*



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

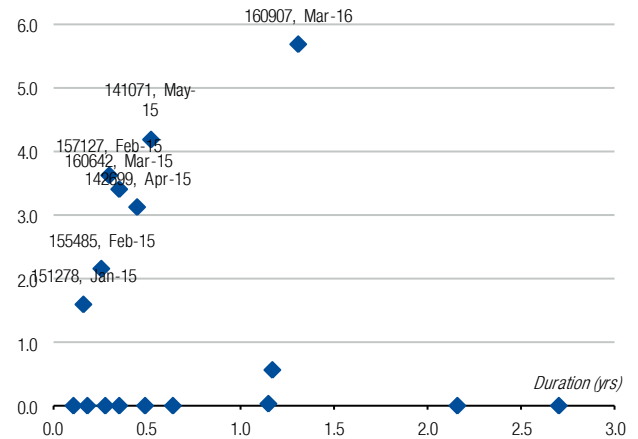
**Chart 9. Map of Ukraine's local-currency government bonds by total turnover plotted against their duration**



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 10. 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 10 Nov 2014

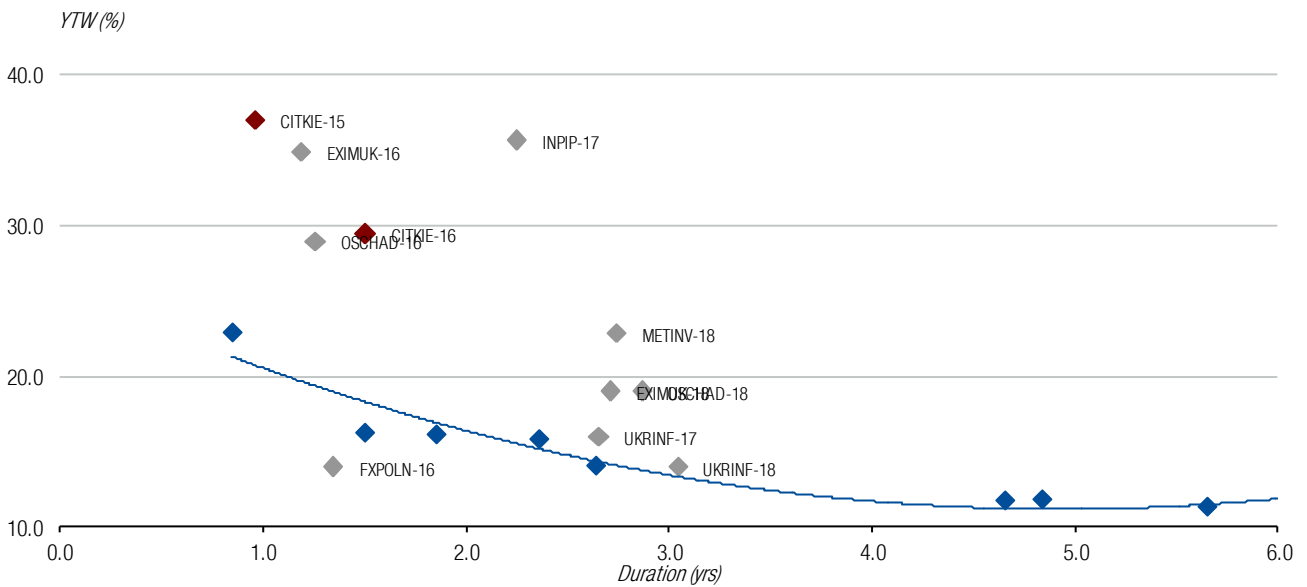
Ticker	Issuer	Ratings	Volume (million)	Curr- ency	Coupon rate (%)	Maturity	Price (% of par)	YTM (%)	Weekly price chg (bp)	Weekly yield chg (bp)	Spread (bp)	Duration (years)
UKRAIN-15	Ministry of Finance	Caa3/CCC/CCC	500.0	USD	6.875	23-Sep-15	88.750	21.86	-275	414	2,023	0.84
UKRAIN-15	Ministry of Finance	Caa3/CCC/CCC	600.0	EUR	4.95	13-Oct-15	89.948	17.63	15	-1	1,613	0.92
UKRAIN-16	Ministry of Finance	Caa3/CCC/CCC	1,000.0	USD	6.58	21-Nov-16	84.456	15.86	-171	119	1,499	1.85
UKRAIN-17	Ministry of Finance	Caa3/CCC/CCC	700.0	USD	6.75	14-Nov-17	83.205	13.77	-253	119	1,245	2.63
UKRAIN-20	Ministry of Finance	Caa3/CCC/CCC	1,500.0	USD	7.75	23-Sep-20	83.904	11.61	-225	60	976	4.65
UKRAIN-21	Ministry of Finance	Caa3/CCC/CCC	1,500.0	USD	7.95	23-Feb-21	83.911	11.63	-235	60	901	4.83
CITKIE-15	Kyiv	Caa3/CCC/CC	250.0	USD	8	6-Nov-15	78.259	36.28	-5	55	3,500	0.96
CITKIE-16	Kyiv	Caa3/CCC/CC	300.0	USD	9.375	11-Jul-16	76.111	28.33	-89	102	2,671	1.50
PUMBUZ-14	FUIB	Caa3/NR/NR	252.5	USD	11	31-Dec-14	71.511	314.75	-1	3,335	31,007	0.13
EXIMUK-15	Ukreximbank	Caa3/NR/CCC	750.0	USD	8.375	27-Apr-15	86.813	42.81	-171	598	4,097	0.46
METINV-15	Metinvest Holding	Caa2/NR/CCC	500.0	USD	10.25	20-May-15	82.250	53.74	275	-663	5,217	0.49
PRBANK-15	Pryvatbank	Caa3u/NR/CC	200.0	USD	9.375	23-Sep-15	77.938	42.43	81	-84	3,952	0.84
EXIMUK-16	Ukreximbank	Ca/NR/C	125.0	USD	8.4	9-Feb-16	72.945	34.35	-25	72	3,330	1.19
PRBANK-16	Pryvatbank	Cau/NR/NR	150.0	USD	8.75	9-Feb-16	65.688	44.71	-25	92	4,294	1.18
OSCHAD-16	Oshchadbank	Caa3/NR/CCC	500.0	USD	8.25	10-Mar-16	79.101	28.16	-227	271	2,682	1.26
FXPOLN-16	Ferrexpo PLC	Caa2/CCC+/CCC	500.0	USD	7.875	7-Apr-16	93.063	13.46	-106	94	1,245	1.34
NADRA-17	Nadra Bank	WR/NR/WD	41.0	USD	8	22-Jun-17	100.000	7.87	0	10	733	1.66
INPIP-17	Interpipe	NR/NR/C	200.0	USD	10.25	2-Aug-17	60.125	33.72	-50	54	3,094	2.25
UKRINF-17	Infrastructure Projects Fin	Caa3/NR/NR	538.0	USD	8.375	3-Nov-17	83.500	15.51	0	3	1,406	2.65
NADRA-17	Nadra Bank	NR/NR/NR	50.0	USD	9.375	5-Dec-17	100.000	9.16	0	6	819	2.75
EXIMUK-18	Ukreximbank	Caa3/NR/CCC	500.0	USD	8.75	22-Jan-18	77.445	18.38	-163	85	1,617	2.71
METINV-18	Metinvest Holding	Caa2/NR/CCC	750.0	USD	8.75	14-Feb-18	69.438	22.46	-56	38	2,043	2.74
OSCHAD-18	Oshchadbank	Caa3/NR/CCC	500.0	USD	8.875	20-Mar-18	76.643	18.52	-268	132	1,642	2.86
UKRINF-18	Infrastructure Projects Fin	Caa3/NR/NR	690.0	USD	7.4	20-Apr-18	83.125	13.72	0	3	1,181	3.04
UKRAIN-16	Ministry of Finance	Caa3/CCC/CCC	1,250.0	USD	6.25	17-Jun-16	86.966	15.80	-138	119	1,480	1.50
UKRAIN-17	Ministry of Finance	Caa3/CCC/CCC	2,600.0	USD	9.25	24-Jul-17	86.524	15.54	-226	117	1,427	2.35
UKRAIN-22	Ministry of Finance	Caa3/CCC/CCC	2,250.0	USD	7.8	28-Nov-22	82.137	11.23	-259	56	876	5.65
UKRAIN-23	Ministry of Finance	Caa3/CCC/CCC	1,250.0	USD	7.5	17-Apr-23	80.255	11.17	-264	56	871	6.08
DTEKUA-15	DTEK	Caa2/NR/CCC	500.0	USD	9.5	28-Apr-15	88.938	37.81	94	-207	3,610	0.46
MHPSA-15	MHP	Caa2/NR/CCC	584.8	USD	10.25	29-Apr-15	99.375	11.64	13	-26	1,097	0.46
AVINPU-15	Avangard	NR/NR/CCC	200.0	USD	10	29-Oct-15	88.313	24.34	38	-27	2,358	0.94
OSCHAD-16	Oshchadbank	NR/NR/B	200.0	USD	8.25	10-Mar-16	0.000	0.00	0	0	0	0.00
MRIYA-16	Mriya Agrohholding	NR/CC/WD	250.0	USD	10.95	30-Mar-16	23.125	179.50	19	206	16,765	1.20
UKRINF-17	Infrastructure Projects Fin	(P)Caa3/NR/NR	550.0	USD	9	7-Dec-17	83.009	16.24	-200	98	1,520	2.59
PRBANK-18	Pryvatbank	Caa3u/NR/CC	175.0	USD	10.875	28-Feb-18	75.750	21.50	-150	82	1,920	2.70

Sources: Bloomberg, Investment Capital Ukraine LLC.



**Chart 11. Term structure of yields of Ukrainian Eurobonds as of 10 Nov 2014**

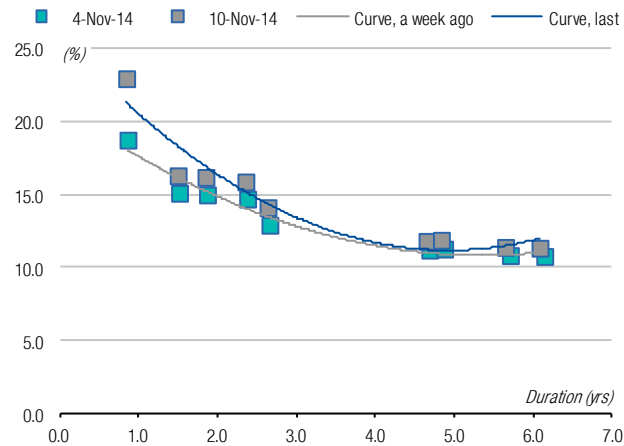
Blue dots are Ukraine sovereign Eurobonds; grey dots are corporate Eurobonds and red ones are municipal Eurobonds



Sources: Bloomberg, Investment Capital Ukraine LLC..

**Chart 12. Shape of the USD sovereign yield curve at Eurobond market**

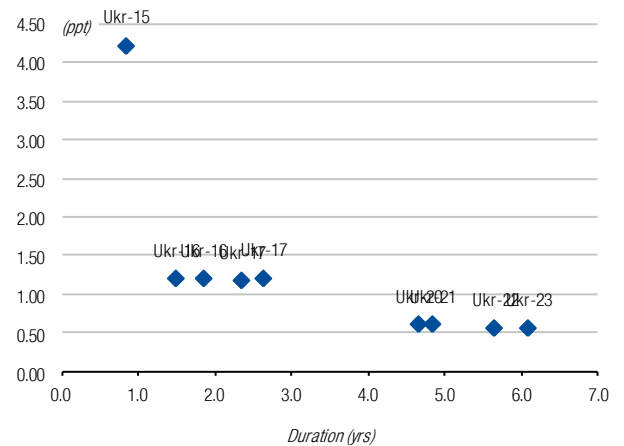
Last one compared to 1 week ago



Sources: Bloomberg, Investment Capital Ukraine LLC.

**Chart 13. 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

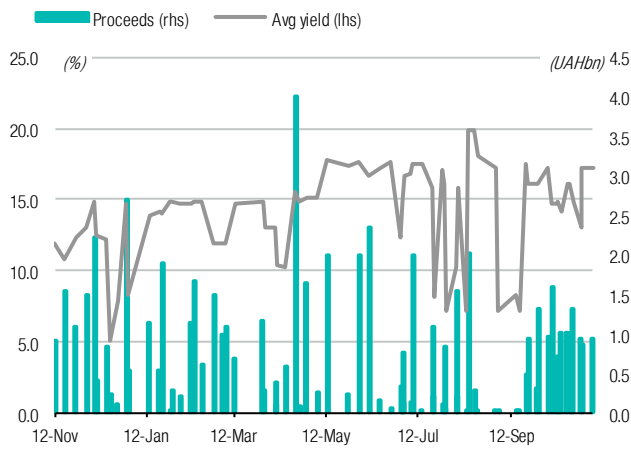
Date	Qty of bonds offered/sold	Proceeds (UAHm)	Volume of bonds sold* (UAHm)	Volume of bids submitted (UAHm)	Qty of bids submitted	Lowest yield asked** (%)	Highest yield asked** (%)	MoF cut-off yield (%)	Qty of bids accepted	Average yield (%)	WA yield (%)	Average duration (years)	WA duration (years)
6-Nov-14	1	936.41	936.00	936.00	2	16.52	16.52	16.52	2	17.25	17.25	1.77	1.77
30-Oct-14	1	852.69	850.00	850.00	1	16.51	16.51	16.51	1	17.24	17.24	1.76	1.76
29-Oct-14	2	937.76	40.00	937.74	4	7.50	16.50	12.00	4	12.97	16.89	1.61	1.75
24-Oct-14	1	1,304.43	1,300.00	1,304.43	1	14.25	14.25	14.25	1	14.80	14.80	3.71	3.71
22-Oct-14	1	1,002.88	1,000.00	1,000.00	1	15.50	15.50	15.50	1	16.15	16.15	5.36	5.36
20-Oct-14	1	1,013.63	1,000.00	1,000.00	1	15.50	15.50	15.50	1	16.15	16.15	5.28	5.28
16-Oct-14	2	1,012.28	0.31	1,000.31	3	7.00	15.50	11.25	3	14.10	16.15	3.78	5.29
14-Oct-14	1	701.59	700.00	700.00	1	14.25	14.25	14.25	1	14.80	14.80	3.71	3.71
13-Oct-14	1	701.32	700.00	700.00	1	14.25	14.25	14.25	1	14.78	14.78	3.72	3.72
10-Oct-14	1	1,601.22	1,600.00	1,600.00	2	14.25	14.25	14.25	2	14.78	14.78	3.73	3.73
7-Oct-14	2	974.22	1,136.42	1,136.42	3	16.50	17.50	17.00	3	17.30	17.50	1.33	0.97
1-Oct-14	1	1,317.55	1,310.00	1,310.00	2	15.50	15.50	15.50	2	16.15	16.15	5.34	5.34
29-Sep-14	1	301.61	300.00	300.00	1	15.50	15.50	15.50	1	16.14	16.14	4.46	4.46
24-Sep-14	1	930.00	930.00	930.00	2	15.50	15.50	15.50	2	16.15	16.15	5.37	5.37
23-Sep-14	1	471.68	554.00	554.00	1	17.50	17.50	17.50	1	17.45	17.45	1.00	1.00
18-Sep-14	1	7.92	7.85	7.85	4	7.00	7.00	7.00	4	7.13	7.13	1.76	1.76
16-Sep-14	1	8.01	8.00	8.00	1	8.10	8.10	8.10	1	8.26	8.26	1.86	1.86
4-Sep-14	1	21.40	21.25	21.25	2	7.00	7.00	7.00	2	7.13	7.13	1.80	1.80
2-Sep-14	1	11.98	11.75	11.75	1	16.50	16.50	16.50	1	17.20	17.20	1.73	1.73
21-Aug-14	1	22.52	22.50	42.50	2	17.30	20.00	17.30	1	18.07	18.07	1.77	1.77
19-Aug-14	1	276.78	286.00	286.00	2	18.95	18.98	18.98	2	19.91	19.91	2.17	2.17
15-Aug-14	2	2,031.53	1,100.00	2,104.54	3	18.98	18.98	18.98	3	19.94	19.94	2.18	2.18
14-Aug-14	1	14.02	13.98	13.98	2	7.00	7.00	7.00	2	7.13	7.13	1.85	1.85
8-Aug-14	2	1,538.01	1,530.00	1.53	4	14.30	17.00	15.65	4	15.79	16.78	2.68	2.07
7-Aug-14	3	210.40	226.51	226.51	7	7.00	15.90	12.60	7	10.31	14.78	1.01	0.56
31-Jul-14	1	50.02	50.00	50.00	1	7.00	7.00	7.00	1	7.13	7.13	1.89	1.89
30-Jul-14	2	837.38	950.00	950.00	2	15.90	16.00	15.95	2	16.11	16.12	0.85	0.84
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

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

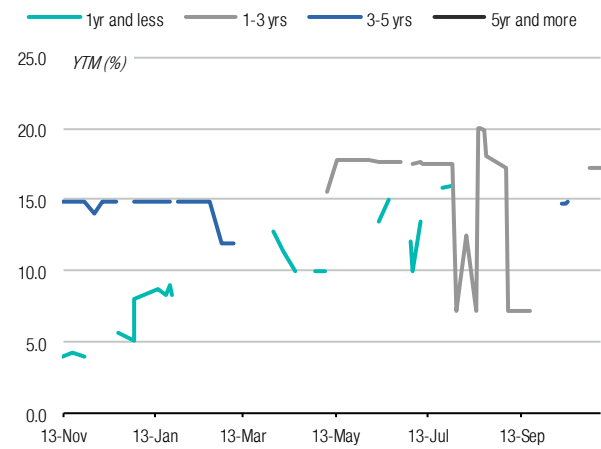
*Last 12-month period*



Sources: Ministry of Finance, Investment Capital Ukraine LLC.

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

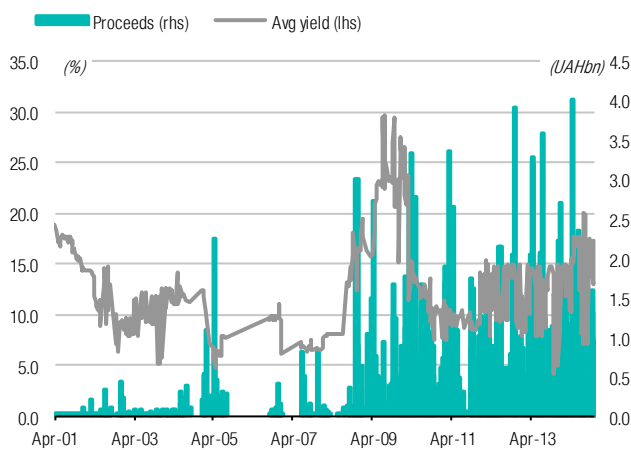
*Last 12-month period*



Sources: Ministry of Finance, Investment Capital Ukraine LLC.

**Chart 16. Effective yield of debt raised by MoF and total volume of proceeds at the government bond auctions**

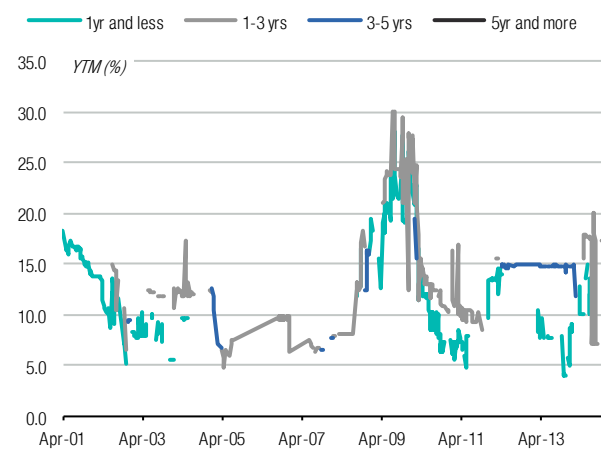
*History since April 2001 to present*



Sources: Ministry of Finance, Investment Capital Ukraine LLC.

**Chart 17. 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>								
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
UA4000185722	Zero-coupon bonds	170,000,000.00	14.90	Upon maturity	No	No		28-Jan-2015
UA4000064166	Coupon bonds	451,875,000.00	15.00	Semi-annually	No	No		28-Jan-2015
UA4000185383	Zero-coupon bonds	845,000,000.00	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
UA4000185607	Zero-coupon bonds	450,000,000.00		Upon maturity	No	No		29-Jul-2015
UA4000186787	Zero-coupon bonds	1,684,266,000.00		Upon maturity	No	No		23-Sep-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
UA4000106181	Coupon bonds	80,002,000.00	9.50	Quarterly	Yes	Yes	13-Jul-2016	13-Jul-2016
UA4000185276	Coupon bonds	1,395,320,000.00	16.75	Semi-annually	No	No		13-Jul-2016
UA4000107528	Coupon bonds	5,512,500.00	12.50	Quarterly	Yes	No		20-Jul-2016
UA4000185623	Coupon bonds	99,898,000.00	7.00	Semi-annually	No	No		27-Jul-2016
UA4000186175	Coupon bonds	40,405,000.00	17.30	Semi-annually	No	No		17-Aug-2016
UA4000187280	Coupon bonds	1,745,060,000.00	16.49	Semi-annually	No	No		19-Oct-2016
UA4000187512	Coupon bonds	936,000,000.00	16.52	Semi-annually	No	No		2-Nov-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	6,390,537,000.00	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

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
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
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
UA4000185755	Coupon bonds	300,000,000.00	14.30	Semi-annually	No	No		31-Jul-2019
UA4000146997	Coupon bonds	1,996,041,000.00	14.30	Semi-annually	No	No		18-Sep-2019
UA4000186993	Coupon bonds	3,000,000,000.00	14.25	Semi-annually	No	No		2-Oct-2019
UA4000187272	Coupon bonds	1,300,000,000.00	14.25	Semi-annually	No	No		9-Oct-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
UA4000186852	Coupon bonds	300,000,000.00	15.50	Semi-annually	No	No		8-Sep-2021
UA4000173371	Coupon bonds	330,000,000.00	10.00	Semi-annually	No	No		23-Aug-2023
UA4000186894	Coupon bonds	3,310,000,000.00	15.50	Semi-annually	No	No		4-Sep-2024
UA4000186803	Coupon bonds	930,000,000.00	15.50	Semi-annually	No	No		11-Sep-2024
UA4000187207	Coupon bonds	1,000,000,000.00	15.50	Semi-annually	No	No		2-Oct-2024
<b>Total</b>		<b>107,222,494,500.00</b>						
<b>Government recap'n bonds</b>								
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

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
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
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
UA4000179535	Coupon bonds	2,500,000,000.00	14.25	Semi-annually	No	No		28-Nov-2018
UA4000177943	Coupon bonds	300,000,000.00	9.50	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

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
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
<b>Total</b>		<b>129,439,708,000.00</b>						
<b>Government VAT bonds 2010</b>								
UA4000078141	Coupon bonds	9,688,000.00	5.50	Semi-annually	Yes	No		27-Jul-2015
UA4000082531	Coupon bonds	409,563,000.00	5.50	Semi-annually	Yes	No		21-Aug-2015
UA4000082622	Coupon bonds	1,660,974,600.00	5.50	Semi-annually	Yes	No		24-Aug-2015
UA4000083059	Coupon bonds	1,206,957,000.00	5.50	Semi-annually	Yes	No		25-Aug-2015
<b>Total</b>		<b>3,287,182,600.00</b>						
<b>Government indexed bonds</b>								
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
<b>Total</b>		<b>9,538,000,000.00</b>						
<b>Government foreign-currency bonds</b>								
UA4000149231	Coupon bonds	1,813,495,152.00	8.32	Semi-annually	No	No		19-Nov-2014
UA4000173058	Coupon bonds	1,485,400,000.00	7.75	Semi-annually	No	No		26-Nov-2014
UA4000177133	Coupon bonds	3,342,150,000.00	7.88	Semi-annually	No	No		10-Dec-2014
UA4000171649	Coupon bonds	1,474,036,690.00	8.25	Semi-annually	No	No		24-Dec-2014
UA4000151278	Coupon bonds	2,184,904,568.00	8.50	Semi-annually	No	No		7-Jan-2015
UA4000133771	Coupon bonds	285,865,230.00	9.60	Semi-annually	No	No		14-Jan-2015
UA4000155485	Coupon bonds	3,245,599,000.00	8.09	Semi-annually	No	No		11-Feb-2015
UA4000157143	Coupon bonds	742,700,000.00	8.02	Semi-annually	No	No		18-Feb-2015
UA4000157127	Coupon bonds	734,025,264.00	8.02	Semi-annually	No	No		25-Feb-2015
UA4000160642	Coupon bonds	2,999,423,658.00	7.75	Semi-annually	No	No		18-Mar-2015
UA4000142699	Coupon bonds	4,631,031,580.00	9.45	Semi-annually	No	No		22-Apr-2015
UA4000166821	Coupon bonds	3,960,076,400.00	7.75	Semi-annually	No	No		6-May-2015
UA4000142681	Coupon bonds	738,006,136.00	4.80	Semi-annually	No	Yes	6-May-2015	6-May-2015
UA4000141071	Coupon bonds	2,251,153,408.00	9.45	Semi-annually	No	No		27-May-2015
UA4000167837	Coupon bonds	2,580,288,340.00	7.75	Semi-annually	No	No		3-Jun-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
UA4000142673	Coupon bonds	2,599,450,000.00	4.50	Semi-annually	No	Yes	17-Jun-2015	17-Jun-2015
UA4000144083	Coupon bonds	33,124,420.00	9.45	Semi-annually	No	No		8-Jul-2015
UA4000171409	Coupon bonds	1,550,430,812.00	8.25	Semi-annually	No	No		15-Jul-2015
UA4000185458	Coupon bonds	2,970,800,000.00	8.00	Semi-annually	No	No		22-Jul-2015
UA4000152441	Coupon bonds	4,781,502,600.00	8.25	Semi-annually	No	No		27-Jan-2016
UA4000153282	Coupon bonds	132,349,140.00	8.25	Semi-annually	No	No		3-Feb-2016
UA4000160923	Coupon bonds	4,456,200,000.00	7.50	Semi-annually	No	Yes	16-Mar-2016	16-Mar-2016
UA4000160907	Coupon bonds	426,086,990.00	8.00	Semi-annually	No	No		23-Mar-2016
UA4000187298	Coupon bonds	738,006,136.00	7.50	Semi-annually	No	No		27-Apr-2016
UA4000166847	Coupon bonds	1,105,880,300.00	8.00	Semi-annually	No	No		25-May-2016
UA4000172506	Coupon bonds	3,353,840,098.00	8.75	Semi-annually	No	No		10-Aug-2016
UA4000186720	Coupon bonds	118,832,000.00	8.10	Semi-annually	No	No		7-Sep-2016
UA4000177414	Coupon bonds	4,433,919,000.00	7.75	Semi-annually	No	Yes	26-Oct-2016	26-Oct-2016
UA4000177752	Coupon bonds	741,600,804.00	7.75	Semi-annually	No	Yes	30-Nov-2016	30-Nov-2016
UA4000178305	Coupon bonds	1,482,904,528.00	7.75	Semi-annually	No	No		14-Dec-2016
UA4000160915	Coupon bonds	4,456,200,000.00	8.25	Semi-annually	No	No		22-Mar-2017
UA4000166854	Coupon bonds	4,827,550,000.00	7.45	Semi-annually	No	Yes	17-May-2017	17-May-2017
UA4000151286	Coupon bonds	7,872,620,000.00	7.50	Semi-annually	No	No		20-Dec-2017
UA4000177554	Coupon bonds	2,969,567,118.00	7.50	Semi-annually	No	Yes	21-Nov-2018	21-Nov-2018
<b>Total</b>		<b>81,519,019,372.00</b>						
<b>Grand total</b>		<b>331,006,404,472.00</b>						

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
<b>January</b>	Auction date	7-Jan-14	14-Jan-14	21-Jan-14	28-Jan-14	
	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	
<b>February</b>	Auction date	4-Feb-14	11-Feb-14	18-Feb-14	25-Feb-14	
	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	
<b>March</b>	Auction date	4-Mar-14	11-Mar-14	18-Mar-14	25-Mar-14	
	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	
<b>April</b>	Auction date	1-Apr-14	8-Apr-14	15-Apr-14	22-Apr-14	29-Apr-14
	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>
<b>May</b>	Auction date	6-May-14	13-May-14	20-May-14	27-May-14	
	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	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	0.00	
<b>June</b>	Auction date	3-Jun-14	10-Jun-14	17-Jun-14	24-Jun-14	
	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>	
<b>July</b>	Auction date	1-Jul-14	8-Jul-14	15-Jul-14	22-Jul-14	29-Jul-14
	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
<b>August</b>	Auction date	5-Aug-14	12-Aug-14	19-Aug-14	26-Aug-14	
	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	
<b>September</b>	Auction date	2-Sep-14	9-Sep-14	16-Sep-14	23-Sep-14	30-Sep-14
	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
<b>October</b>	Auction date	7-Oct-14	14-Oct-14	21-Oct-14	28-Oct-14	
	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	
<b>November</b>	Auction date	4-Nov-14	11-Nov-14	18-Nov-14	25-Nov-14	
	Local debt repayment <sup>1</sup>	0.00	<b>2,152,816,298.50</b>	<b>2,625,503,100.32</b>	<b>2,314,726,637.45</b>	
	External debt repayment <sup>2</sup>	0.00	382,999,665.75	<b>2,007,679,826.05</b>	<b>3,668,531,828.61</b>	
	Total	0.00	<b>2,535,815,964.24</b>	<b>4,633,182,926.38</b>	<b>5,983,258,466.07</b>	
<b>December</b>	Auction date	2-Dec-14	9-Dec-14	16-Dec-14	23-Dec-14	30-Dec-14
	Local debt repayment <sup>1</sup>	<b>1,117,237,711.83</b>	<b>4,227,250,170.00</b>	<b>2,539,630,998.96</b>	<b>2,168,501,453.46</b>	514,467,890.00
	External debt repayment <sup>2</sup>	162,688,729.18	<b>2,727,057,903.17</b>	<b>2,469,982,285.77</b>	<b>2,471,217,507.00</b>	0.00
	Total	<b>1,279,926,441.01</b>	<b>6,954,308,073.17</b>	<b>5,009,613,284.73</b>	<b>4,639,718,960.46</b>	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
<b>BY QUARTERS</b>																	
4Q14	1,489.0		3,012.0	182.0		3,196.5	5,916.5	11,743.6		100.6		203.5	12.3		215.9	399.7	793.3
1Q15	2,773.2	90.4	2,705.4	623.7	1,643.6	2,000.0	7,094.7	15,159.8		187.3	6.1	182.8	42.1	111.0	135.1	479.2	1,024.0
2Q15	4,673.9		3,725.1	1,095.8			10,188.3	19,325.8		315.7		251.6	74.0			688.2	1,305.4
3Q15	3,073.8	45.2	3,172.6	2,135.1	1,643.6	1,000.0	7,456.4	10,658.0		207.6	3.1	214.3	144.2	111.0	67.5	503.7	719.9
4Q15	4,582.1		3,929.0	0.8		6,000.0	9,492.3	6,909.8		309.5		265.4	0.1		405.3	641.2	466.8
1Q16	2,944.5		2,737.6	0.8		2,750.0	6,600.9	13,163.9		198.9		184.9	0.1		185.8	445.9	889.2
2Q16	4,582.0		3,610.3	6,250.2		9,085.0	9,131.3	17,179.1		309.5		243.9	422.2		613.7	616.8	1,160.4
3Q16	2,944.5		2,606.9	3,616.4		7,135.0	6,055.1	17,014.1		198.9		176.1	244.3		482.0	409.0	1,149.3
4Q16	4,035.4		3,213.5	2,681.1			8,116.0	9,816.5		272.6		217.1	181.1			548.2	663.1
1Q17	2,636.9		2,268.0	2,750.0		1,250.0	5,135.0	8,456.2		178.1		153.2	185.8		84.4	346.9	571.2
2Q17	3,814.2		3,213.5	10,179.0		6,357.9	7,614.1	21,364.5		257.6		217.1	687.6		429.5	514.3	1,443.2
3Q17	2,435.0		2,208.7	1,810.0		6,550.0	4,689.9	8,360.0		164.5		149.2	122.3		442.4	316.8	564.7
4Q17	3,063.7		2,863.5	5,212.9		7,658.3	6,333.8	20,743.7		207.0		193.4	352.1		517.3	427.8	1,401.2
1Q18	2,305.6		1,873.5	4,318.9		8,875.0	4,225.4	13,193.9		155.7		126.6	291.7		599.5	285.4	891.2
2Q18	2,691.0		2,403.7	11,845.3		7,157.9	5,206.1	19,003.3		181.8		162.4	800.1		483.5	351.7	1,283.7
3Q18	1,996.8		1,368.6	5,101.3		10,145.1	3,411.6	15,246.5		134.9		92.4	344.6		685.3	230.5	1,029.9
4Q18	1,846.4		2,034.1	5,108.8		13,221.7	3,991.8	21,300.1		124.7		137.4	345.1		893.1	269.6	1,438.8
<b>BY YEARS</b>																	
2014	1,489.0		3,012.0	182.0		3,196.5	5,916.5	11,743.6		100.6		203.5	12.3		215.9	399.7	793.3
2015	15,102.9	135.6	13,532.0	3,855.3	3,287.2	9,000.0	34,231.7	52,053.4		1,020.2	9.2	914.1	260.4	222.0	607.9	2,312.3	3,516.2
2016	14,506.4		12,168.3	12,548.5		18,970.0	29,903.3	57,173.6		979.9		822.0	847.6		1,281.4	2,019.9	3,862.0
2017	11,949.8		10,553.7	19,951.9		21,816.2	23,772.9	58,924.4		807.2		712.9	1,347.7		1,473.7	1,605.8	3,980.3
2018	8,839.8		7,679.9	26,374.4		39,399.8	16,834.9	68,743.8		597.1		518.8	1,781.6		2,661.4	1,137.2	4,643.6

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>												
4Q14	3,119.9	1,219.8	0.0	9,550.4	4,339.7	9,550.4	267.6	104.6	0.0	819.0	372.2	819.0
1Q15	2,975.7	1,257.6	0.0	10,015.2	4,233.2	10,015.2	255.2	107.8	0.0	858.9	363.0	858.9
2Q15	3,819.0	1,476.9	0.0	15,002.3	5,295.9	15,002.3	327.5	126.7	0.0	1,286.6	454.2	1,286.6
3Q15	2,975.7	918.3	5,830.4	4,566.0	3,894.0	10,396.4	255.2	78.8	500.0	391.6	333.9	891.6
4Q15	3,819.0	955.7	41,143.6	990.7	4,774.7	42,134.3	327.5	82.0	3,528.4	85.0	409.5	3,613.3
1Q16	2,775.3	765.9	0.0	7,690.3	3,541.2	7,690.3	238.0	65.7	0.0	659.5	303.7	659.5
2Q16	2,792.0	952.0	14,576.0	1,278.9	3,744.0	15,854.9	239.4	81.6	1,250.0	109.7	321.1	1,359.7
3Q16	2,775.3	462.6	0.0	2,726.1	3,237.8	2,726.1	238.0	39.7	0.0	233.8	277.7	233.8
4Q16	2,336.5	901.9	11,660.8	5,227.1	3,238.3	16,887.9	200.4	77.3	1,000.0	448.3	277.7	1,448.3
1Q17	2,775.3	343.3	0.0	3,498.2	3,118.5	3,498.2	238.0	29.4	0.0	300.0	267.4	300.0
2Q17	1,952.8	699.2	0.0	3,789.8	2,652.1	3,789.8	167.5	60.0	0.0	325.0	227.4	325.0
3Q17	2,775.3	199.3	30,318.1	0.0	2,974.6	30,318.1	238.0	17.1	2,600.0	0.0	255.1	2,600.0
4Q17	1,952.8	542.9	8,162.6	6,180.2	2,495.7	14,342.8	167.5	46.6	700.0	530.0	214.0	1,230.0
1Q18	1,373.1	168.5	0.0	0.0	1,541.6	0.0	117.8	14.5	0.0	0.0	132.2	0.0
2Q18	1,677.4	280.5	0.0	0.0	1,957.9	0.0	143.8	24.1	0.0	0.0	167.9	0.0
3Q18	1,373.1	138.3	0.0	0.0	1,511.4	0.0	117.8	11.9	0.0	0.0	129.6	0.0
4Q18	1,677.4	250.1	0.0	2,331.2	1,927.5	2,331.2	143.8	21.5	0.0	199.9	165.3	199.9
<b>BY YEARS</b>												
2014	3,119.9	1,219.8	0.0	9,550.4	4,339.7	9,550.4	267.6	104.6	0.0	819.0	372.2	819.0
2015	13,589.5	4,608.5	46,974.0	30,574.2	18,197.9	77,548.2	1,165.4	395.2	4,028.4	2,622.0	1,560.6	6,650.3
2016	10,679.0	3,082.3	26,236.8	16,922.3	13,761.3	43,159.2	915.8	264.3	2,250.0	1,451.2	1,180.1	3,701.2
2017	9,456.2	1,784.7	38,480.7	13,468.2	11,240.9	51,949.0	810.9	153.0	3,300.0	1,155.0	964.0	4,455.0
2018	6,100.8	837.5	0.0	2,331.2	6,938.3	2,331.2	523.2	71.8	0.0	199.9	595.0	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.

# 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 exchange 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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### EQUITY RATING DEFINITIONS

**Buy:** Forecasted 12-month total return greater than 20%

**Hold:** Forecasted 12-month total return 0% to 20%

**Sell:** Forecasted 12-month total return less than 0%

Note: total return is share price appreciation to a target price in relative terms plus forecasted dividend yield.

### DEBT RATING DEFINITIONS

**Buy:** Forecasted 12-month total return significantly greater than that of relevant benchmark

**Hold:** Forecasted 12-month total return is in line with or modestly deviates from relevant benchmark

**Sell:** Forecasted 12-month total return significantly less than that of relevant benchmark





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

**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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