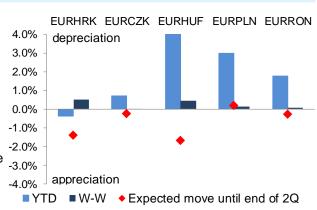


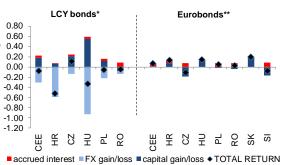
# **CEE Market Insights**

#### Market outlook

While the HUF fell the most in the region last week, we think that the Hungarian central bank will not be worried much as long as long-term yields do not increase substantially, which does not seem to be the case yet. The dovishness of the central bank could mean that the forint could continue to be subject to higher volatility. In Croatia, the kuna seems somewhat weak, while usual seasonal flows at this time of the year would suggest otherwise. Still, any appreciation pressure on the kuna could continue to be tamed by the central bank, in line with comments from central banker Vujcic.



Lower Bund yields helped CEE yields to go mostly lower last week. Czech and Hungarian yield spreads even declined, likely due to worsening trade war prospects globally. Polish yields showed some uptick during the week, 0.60 (0.40 however, after the relatively strong GDP data release. Even more importantly, the governor signaled that he sees unchanged rates until the end of his term — which is only coming in three years. In Romania, tight liquidity control is deemed very effective by the governor. This reaffirms our view that no increase in the policy rate will come this year.



## Looking ahead this week:

Monday	Tuesday	Wednesday	Thursday	Friday
CZ: PPI	PL: Wages SI: PPI	PL: Industry, PPI	PL: Retail	RS: Wages

This week, the release calendar is relatively empty. Except for PPI data, there will be just April's industrial output, retail sales and wage growth for Poland. This data will be very important, as it will provide us the first opportunity to get now-cast output for GDP in 2Q19 based on April numbers. At this moment, we expect the Polish economy to sustain strong growth 2Q. Last week's better than expected GDP flash estimates will lead to some upward revision of the full-year forecast. We have put our 3.1% forecast for the Romanian economy under review (a new forecast will be published within a week), while we see some upward risks for Hungary's forecast, which is likely to be updated with the detailed GDP data (due in June). Over the weekend, European elections take place. They could provide some valuable insights on new trends in domestic political preferences. However, due to low turnouts, these preferences (level-wise) should not be taken as fully representative.

## In case you missed it last week...

CEE: Inflation slowed down in Czechia, Croatia and Slovakia and accelerated in Romania and Serbia in April

CZ: Favorable economic development continues

PL: Polish economy sustained solid growth in 1Q19

RO: Romanian economy expanded 5% y/y in 1Q19; we have put our full-year forecast under review

SK: Flash GDP points to a mild acceleration in 1Q19 from lukewarm 4Q18

HU: Hungarian economy posted 5.3% y/y growth in 1Q19; we see upside risks to our full-year forecast

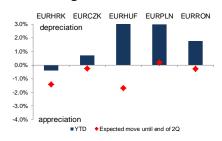
PL: MPC kept rates unchanged, stability of rates is expected at least for 2019

RO: Central bank opts for tight liquidity control instead of raising key interest rates

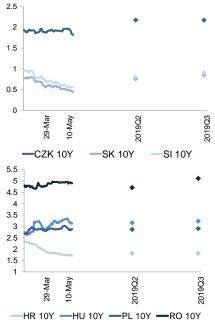
RS: We increased our year-end inflation forecast to 2.5%, from 2.1%

CEE Market Insights | Fixed Income | Central and Eastern Europe 20 May 2019

#### YTD change on FX market



# 10Y government bond yields, percent



#### Source: Erste Group Research, Bloomberg.

#### On global markets:

Next week, the most important macro data for the EURUSD will come from the Eurozone. PMIs for the month of May will be released and will give markets an important update on the status of the economy of the Eurozone as a whole, as well as from large member countries.

#### **CEE currencies:**

The forint again proved to be the most vulnerable in the CEE region to negative international news, as last week brought an almost one percent weakening against the EUR. As long as the weakening in the forint is not severe and long-term government bond yields do not reflect the fact that the market is pricing in a substantially larger inflation premium quickly, the central bank is unlikely to act. We think that the forint could remain subject to volatility in the coming weeks. Other currencies in the region only marginally weakened last week, or remained little changed, amid the deteriorating international sentiment (due to trade wars). The Croatian kuna seems relatively weak, as, despite the approaching holiday season, the HRK does not show the usual appreciation pattern. Appreciation of the HRK could be further burdened by comments from central banker Vujcic that, although he sees appreciation pressure on the kuna, he still sees the exchange rate as flat going forward. Interesting comments came from the NBS in Serbia as well, as they made it clear that they do not prefer to see much lower levels in the EURRSD going forward, as they do not want such moves to create disinflationary pressure. This reinforces our view that the dinar could remain stable against the euro.

#### CEE rates and yields:

CEE bond markets were affected by developments of German Bunds last week, as the latter declined by 5bp on the 10Y tenor w/w. Still, Czech and Hungarian yields fell much more than Bund yields in the region. The narrowing of the spread in these countries is a bit at odds with the good GDP data released last week (especially for Hungary, which posted 5.3% y/y real GDP growth for 1Q19, while the Czech figure was at 2.5%), but could perhaps be better understood against the backdrop of the deteriorating international sentiment. This latter element was likely driven by the worsening of global trade war prospects, which is especially problematic for Czechia and Hungary, which are heavily exposed to the international auto sector. For Hungary, the bond market does not seem to be pricing in increasingly higher inflation for the time being, despite evident signs of economic overheating and a still rather dovish central bank. Poland also showed interesting developments, as the 10Y yield went up by 10bp (to 2.9%) after the publication of the 1Q19 GDP estimate, which came as a positive surprise (at 4.6%) compared to market expectations. Currently, the 10Y is at 2.85-2.90%, which is roughly in line with our forecast for the end of 2Q19. Additionally, Governor Glapinski said that he would see unchanged rates until the end of his term, which will come in three years - a rather strong commitment, while core inflation is at the highest level since 2012. As for Romania, the central bank kept rates unchanged at 2.5%, while reiterating that strong liquidity control will be kept in place and added that this measure could be equivalent to a 75bp hike in the policy rate. This comment reaffirms our view for an unchanged base rate this year in Romania, despite the fact that the NBR is expecting inflation to stay above the target even at the end of this year.

CEE Market Insights | Fixed Income | Central and Eastern Europe 20 May 2019

## Calendar

Time	Country	Indicator	Period	Survey	Erste Est.	Prev.	Pre Comment
20-May							
9:00	cz	PPI (y/y)	Apr	4.0%	3.9%	3.8%	Increasing labor costs and higher oil prices are main proinflationary factors behind producer price inflation.
21-May							
10:00	PL	Wages (y/y)	Apr	6.50%	6.2%	5.7%	Wage growth should sustain solid growth.
10:30	SI	PPI (y/y)	Apr			1.1%	
22-May							
10:00	PL	Industrial Production (y/y)	Apr	8.7%	4.0%	5.6%	We expect somewhat weaker performance of industry.
10:00	PL	PPI (y/y)	Apr	2.6%	2.4%	2.5%	Price pressure should remain limited.
23-May							
10:00	PL	Retail Sales (y/y)	Apr	9.6%	6.5%	3.1%	Easter effect should shift retail sales up.
24-May							
12:00	RS	Wages (y/y)	Mar			6.9%	

Sources: Bloomberg, Reuters

## Capital market forecasts

Government bond yields										
	current	2019Q2	2019Q3	2019Q4	2020Q1					
Croatia 10Y	1.72	1.80	1.80	1.80	1.90					
spread (bps)	182	165	158	152	154					
Czech Rep. 10Y	1.82	2.17	2.17	2.33	2.44					
spread (bps)	192	202	195	205	208					
Hungary 10Y	3.14	3.14	3.23	3.40	3.46					
spread (bps)	324	299	301	312	310					
Poland 10Y	2.88	2.85	2.90	3.00	3.10					
spread (bps)	298	270	268	272	274					
Romania10Y	4.90	4.70	5.10	5.20	5.40					
spread (bps)	501	455	488	492	504					
Slovakia 10Y	0.44	0.75	0.85	0.85	0.95					
spread (bps)	55	60	63	57	59					
Slovenia 10Y	0.54	0.80	0.90	0.90	1.00					
spread (bps)	65	65	68	62	64					
Serbia 5Y	3.91	3.96	3.90	3.93	3.95					
DE10Y (BBG)*	-0.11	0.15	0.22	0.28	0.36					

FX	current	2019Q2	2019Q3	2019Q4	2020Q1
EURHRK	7.43	7.32	7.42	7.45	7.42
forwards		7.43	7.43	7.43	7.43
EURCZK	25.75	25.65	25.51	25.31	25.03
forwards		25.77	25.77	25.77	25.77
EURHUF	325.6	319.0	320.0	322.0	322.0
forwards		328.8	328.8	328.8	328.9
EURPLN	4.31	4.31	4.32	4.29	4.29
forwards		4.31	4.31	4.31	4.31
EURRON	4.76	4.75	4.75	4.77	4.79
forwards		4.76	4.76	4.76	4.76
EURRSD	118.0	117.9	118.0	118.3	118.1
forwards		-	-	-	-
EURUSD	1.12	1.15	1.18	1.18	-

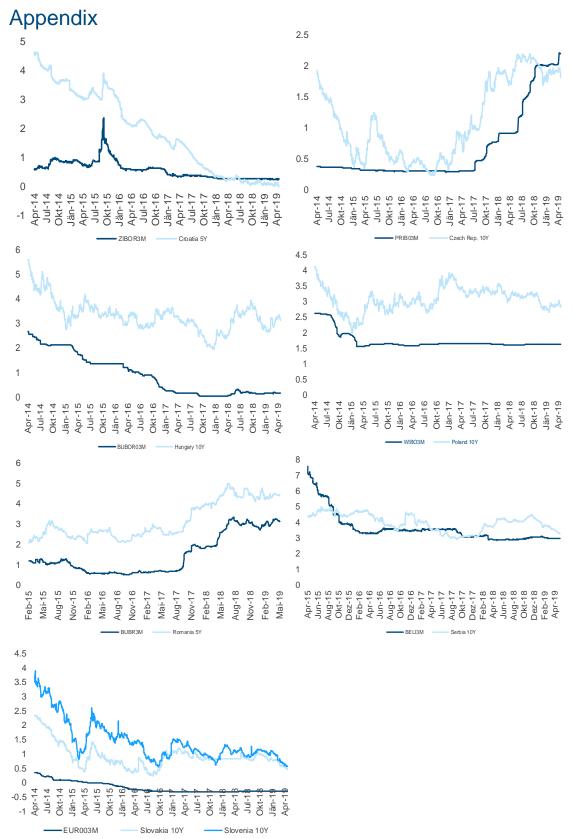
3M Money Market Rate									
	current	2019Q2	2019Q3	2019Q4	2020Q1				
Croatia	0.47	0.50	0.50	0.50	0.50				
Czech Republic	2.20	2.18	2.18	2.18	2.24				
Hungary	0.16	0.22	0.30	0.45	0.60				
Poland	1.72	1.72	1.72	1.72	1.72				
Romania	3.28	3.20	3.70	3.60	3.50				
Serbia	2.96	2.96	2.98	2.98	2.99				
Eurozone	-0.31	-0.30	-0.30	-0.30	-				

<b>Key Interest Rate</b>					
	current	2019Q2	2019Q3	2019Q4	2020Q1
Croatia	0.30	0.30	0.30	0.30	0.30
Czech Republic	2.00	2.00	2.00	2.00	2.00
Hungary	0.90	0.90	0.90	0.90	0.90
Poland	1.50	1.50	1.50	1.50	1.50
Romania	2.50	2.50	2.50	2.50	2.50
Serbia	3.00	3.00	3.00	3.00	3.00
Eurozone	0.00	0.00	0.00	0.00	-

## Macro forecasts

Real GDP growth (%)	2017	2018f	2019f	2020f	Average inflation (%)	2017	2018f	2019f	2020f	Unemployment (%)	2017	2018f	2019f	2020f
Croatia	2.9	2.6	2.3	2.3	Croatia	1.1	1.5	1.0	1.2	Croatia	11.3	8.4	7.4	6.4
Czech Republic	4.5	3.0	2.5	2.8	Czech Republic	2.4	2.2	2.3	2.0	Czech Republic	2.4	2.4	2.5	3.0
Hungary	4.1	4.9	3.8	2.9	Hungary	2.4	2.8	3.1	2.9	Hungary	4.2	3.7	3.6	3.5
Poland	4.8	5.1	4.2	3.4	Poland	2.0	1.6	2.2	2.4	Poland	7.2	6.1	6.3	6.4
Romania	7.0	4.1	3.1	3.7	Romania	1.3	4.6	3.6	3.1	Romania	4.9	4.2	3.8	4.0
Serbia	2.0	4.3	3.0	3.3	Serbia	3.0	2.0	2.5	1.8	Serbia	13.5	12.7	12.2	11.7
Slovakia	3.2	4.1	3.4	3.6	Slovakia	1.3	2.5	2.5	2.5	Slovakia	8.1	6.5	6.3	5.8
Slovenia	4.9	4.5	3.2	3.1	Slovenia	1.4	1.7	1.3	1.5	Slovenia	6.6	5.1	4.2	3.7
CEE8 average	4.7	4.4	3.5	3.3	CEE8 average	1.9	2.4	2.5	2.4	CEE8 average	6.2	5.3	5.2	5.2
go			0.0								-			-
Public debt (% of GDP)	2017	2018f			C/A (%GDP)	2017	2018f	2019f	2020f	Budget Balance (%GDP)	2017	2018f	2019f	2020f
<u> </u>	<b>2017</b> 77.8			2020f	C/A (%GDP) Croatia	<b>2017</b> 3.7	<b>2018</b> f 2.6		<b>2020</b> f 0.5	· · ·	<b>2017</b> 0.9	<b>2018f</b> 0.2	<b>2019</b> f	<b>2020</b> f -0.5
Public debt (% of GDP)			2019f	2020f	( /			2019f		Budget Balance (%GDP)				
Public debt (% of GDP) Croatia	77.8	74.1	<b>2019f</b> 71.4	<b>2020f</b> 69.3 31.4	Croatia	3.7	2.6	2019f 1.4	0.5	Budget Balance (%GDP) Croatia	0.9	0.2	0.0	-0.5
Public debt (% of GDP) Croatia Czech Republic	77.8 34.7	74.1 33.2	2019f 71.4 32.1	<b>2020f</b> 69.3 31.4	Croatia Czech Republic	3.7 1.1	2.6 0.6	2019f 1.4 0.5	0.5 0.6	Budget Balance (%GDP) Croatia Czech Republic	0.9 1.5	0.2 1.5	0.0 1.1	-0.5 0.9
Public debt (% of GDP) Croatia Czech Republic Hungary	77.8 34.7 73.4	74.1 33.2 70.8	2019f 71.4 32.1 68.4	2020f 69.3 31.4 66.6	Croatia Czech Republic Hungary	3.7 1.1 2.8	2.6 0.6 0.5	2019f 1.4 0.5 -0.1	0.5 0.6 0.7	Budget Balance (%GDP) Croatia Czech Republic Hungary	0.9 1.5 -2.2	0.2 1.5 -2.2	0.0 1.1 -1.8	-0.5 0.9 -1.8
Public debt (% of GDP) Croatia Czech Republic Hungary Poland	77.8 34.7 73.4 50.6	74.1 33.2 70.8 48.9	71.4 32.1 68.4 50.1	2020f 69.3 31.4 66.6 49.3	Croatia Czech Republic Hungary Poland	3.7 1.1 2.8 0.2	2.6 0.6 0.5 -0.4	2019f 1.4 0.5 -0.1 -0.5	0.5 0.6 0.7 -0.7	Budget Balance (%GDP) Croatia Czech Republic Hungary Poland	0.9 1.5 -2.2 -1.4	0.2 1.5 -2.2 -0.4	0.0 1.1 -1.8 -1.9	-0.5 0.9 -1.8 -2.6
Public debt (% of GDP) Croatia Czech Republic Hungary Poland Romania	77.8 34.7 73.4 50.6 35.2	74.1 33.2 70.8 48.9 35.0	71.4 32.1 68.4 50.1 35.1	2020f 69.3 31.4 66.6 49.3 35.3	Croatia Czech Republic Hungary Poland Romania	3.7 1.1 2.8 0.2 -3.2	2.6 0.6 0.5 -0.4 -4.5	2019f 1.4 0.5 -0.1 -0.5 -4.9	0.5 0.6 0.7 -0.7 -5.3	Budget Balance (%GDP) Croatia Czech Republic Hungary Poland Romania	0.9 1.5 -2.2 -1.4 -2.7	0.2 1.5 -2.2 -0.4 -3.0	0.0 1.1 -1.8 -1.9 -3.0	-0.5 0.9 -1.8 -2.6 -2.5
Public debt (% of GDP) Croatia Czech Republic Hungary Poland Romania Serbia	77.8 34.7 73.4 50.6 35.2 63.3	74.1 33.2 70.8 48.9 35.0 53.8	71.4 32.1 68.4 50.1 35.1 51.4	2020f 69.3 31.4 66.6 49.3 35.3 49.4	Croatia Czech Republic Hungary Poland Romania Serbia	3.7 1.1 2.8 0.2 -3.2 -5.2	2.6 0.6 0.5 -0.4 -4.5 -5.2	2019f 1.4 0.5 -0.1 -0.5 -4.9 -5.5	0.5 0.6 0.7 -0.7 -5.3 -5.2	Budget Balance (%GDP) Croatia Czech Republic Hungary Poland Romania Serbia	0.9 1.5 -2.2 -1.4 -2.7 1.1	0.2 1.5 -2.2 -0.4 -3.0 0.6	0.0 1.1 -1.8 -1.9 -3.0 -0.5	-0.5 0.9 -1.8 -2.6 -2.5 -0.5

Note:\*Information on past performance is not a reliable indicator for future performance. Forecasts are not a reliable indicator for future performance.



Note:\*Information on past performance is not a reliable indicator for future performance. Forecasts are not a reliable indicator for future performance.

CEE Market Insights | Fixed Income | Central and Eastern Europe 20 May 2019

20 May 2019  Contacts	
Group Research	Treasury –

Contacts			
Group Research		Treasury – Erste Bank Vienna	
Head of Group Research Friedrich Mostböck, CEFA	+43 (0)5 0100 11902	Group Markets Retail Sales Head: Christian Reiss	+43 (0)5 0100 84012
OFF ManualFired Income Bases of		Markets Retail Sales AT	
CEE Macro/Fixed Income Research Head: Juraj Kotian (Macro/FI) Zoltan Arokszallasi, CFA (Fixed income)	+43 (0)5 0100 17357 +43 (0)5 0100 18781	Head: Markus Kaller	+43 (0)5 0100 84239
Katarzyna Rzentarzewska (Fixed income, Poland) Malgorzata Krzywicka (Fixed income)	+43 (0)5 0100 17356 +43 (0)5 0100 17338	Group Markets Execution Head: Kurt Gerhold	+43 (0)5 0100 84232
Croatia/Serbia		Retail & Sparkassen Sales	
Alen Kovac (Head) Mate Jelić	+385 72 37 1383 +385 72 37 1443	Head: Uwe Kolar	+43 (0)5 0100 83214
Ivana Rogic  Czech Republic	+385 72 37 2419	Corporate Treasury Product Distribution AT Head: Christian Skopek	+43 (0)5 0100 84146
David Navratil (Head)	+420 956 765 439	risaar Simonar Sitopoli	
Jiri Polansky Michal Skorepa	+420 956 765 192 +420 956 765 172	Fixed Income Institutional Sales	
Hungary		Institutional Distribution non CEE	
Orsolya Nyeste	+361 268 4428	Head: Jaromir Malak	+43 (0)5 0100 84254
Zsombor Varga	+361 373 2830	Karin Rattay Christian Kienesberger	+43 (0)5 0100 84118 +43 (0)5 0100 84323
Romania		Bernd Bollhof	+49 (0)30 8105800 5525
Horia Braun-Erdei (Head)	+40 3735 10424 +40 3735 10435	Rene Klasen	+49 (0)30 8105800 5521
Eugen Sinca Dorina Ilasco	+40 3735 10435	Christopher Lampe-Traupe	+49 (0)30 8105800-5507
	+40 37 33 10430	Charles-Henry La Coste de Fontenilles	+43 (0)5 0100 84115
Slovakia Maria Valachyova (Head)	+421 2 4862 4185	Bernd Thaler	+43 (0)5 0100 84119
Katarina Muchova	+421 2 4862 4762	Bank Distribution	
ratama wasneva	11212 1002 1102	Head: Marc Friebertshäuser	+49 (0)711 810400 5540
Major Markets & Credit Research		Sven Kienzle	+49 (0)711 810400 5541
Head: Gudrun Egger, CEFA	+43 (0)5 0100 11909	Michael Schmotz	+43 (0)5 0100 85542
Ralf Burchert, CEFA (Agencies)	+43 (0)5 0100 16314	Ulrich Inhofner	+43 (0)5 0100 85544
Hans Engel (Global Equities) Margarita Grushanina (Austria, Quant Analyst)	+43 (0)5 0100 19835 +43 (0)5 0100 11957	Klaus Vosseler Andreas Goll	+49 (0)711 810400 5560 +49 (0)711 810400 5561
Peter Kaufmann, CFA (Corporate Bonds)	+43 (0)5 0100 11937	Mathias Gindele	+49 (0)711 810400 5562
Heiko Langer (Covered Bonds/Financials)	+43 (0)5 0100 85509	mamas smalls	(0)
Stephan Lingnau (Global Equities)	+43 (0)5 0100 16574	Institutional Distribution CEE	
Carmen Riefler-Kowarsch (Covered Bonds/Financials)	+43 (0)5 0100 19632	Head: Jaromir Malak	+43 (0)5 0100 84254
Rainer Singer (Euro, US) Bernadett Povazsai-Römhild, CEFA (Corporate Bonds)	+43 (0)5 0100 17331	Institutional Distribution PL and CIS	
Elena Statelov, CIIA (Corporate Bonds)	+43 (0)5 0100 17203 +43 (0)5 0100 19641	Pawel Kielek	+48 22 538 6223
Gerald Walek, CFA (Euro, CHF)	+43 (0)5 0100 16360	Michal Jarmakowicz	+43 50100 85611
CEE Equity Research		Institutional Distribution Slovakia	
Head: Henning Eßkuchen	+43 (0)5 0100 19634	Head: Sarlota Sipulova	+421 2 4862 5619
Daniel Lion, CIIA (Technology, Ind. Goods&Services) Michael Marschallinger, CFA	+43 (0)5 0100 17420	Monika Smelikova	+421 2 4862 5629
Christoph Schultes, MBA, CIIA (Real Estate)	+43 (0)5 0100 17906 +43 (0)5 0100 11523	Institutional Distribution Czech Republic	
Vera Sutedja, CFA, MBA (Telecom, Steel)	+43 (0)5 0100 11905	Head: Ondrej Cech	+420 2 2499 5577
Thomas Unger, CFA (Banks, Insurance)	+43 (0)5 0100 17344	Milan Bartos	+420 2 2499 5562
Vladimira Urbankova, MBA (Pharma)	+43 (0)5 0100 17343	Barbara Suvadova	+420 2 2499 5590
Martina Valenta, MBA	+43 (0)5 0100 11913	Institutional Asset Management Czech Benublia	
Croatia/Serbia		Institutional Asset Management Czech Republic Head: Petr Holecek	+420 956 765 453
Mladen Dodig (Head)	+381 11 22 09178	Martin Perina	+420 956 765 106
Anto Augustinovic Magdalena Dolenec	+385 72 37 2833 +385 72 37 1407	Petr Valenta	+420 956 765 140
Davor Spoljar, CFA	+385 72 37 2825	David Petracek	+420 956 765 809
Czech Republic		Blanca Weinerova	+420 956 765 317
Petr Bartek (Head)	+420 956 765 227	Institutional Distribution Croatia	
Marek Dongres	+420 956 765 218	Head: Antun Buric	+385 (0)7237 2439
Jan Safranek	+420 956 765 218	Zvonimir Tukač	+385 (0)7237 1787
Hungary		Natalija Zujic	+385 (0)7237 1638
József Miró (Head)	+361 235 5131	Institutional Distribution Humany	
András Nagy	+361 235 5132	Institutional Distribution Hungary Head: Peter Csizmadia	+36 1 237 8211
Tamás Pletser, CFA	+361 235 5135	Attila Hollo	+36 1 237 8209
Poland		Gabor Balint	+36 1 237 8205
Tomasz Duda (Head)	+48 22 330 6253		
Cezary Bernatek Konrad Grygo	+48 22 538 6256 +48 22 330 6254	Institutional Distribution Romania and Bulgaria	. 40 (0)50400 05040
Mateusz Krupa, CFA	+48 22 330 6251	Head: Ciprian Mitu Crisitan Adascalita	+43 (0)50100 85612 +40 373 516 531
Michal Pilch	+48 22 330 6255	Chailan Audscailla	+40 373 516 531
Emil Poplawski	+48 22 330 6252	Group Institutional Equity Sales	
Romania		Head: Brigitte Zeitlberger-Schmid	+43 (0)50100 83123
Caius Rapanu	+40 3735 10441	Werner Fürst	+43 (0)50100 83121
Turkey		Josef Kerekes	+43 (0)50100 83125
Umut Cebir	+90 2129120445	Cormac Lyden	+43 (0)50100 83120
Lina Barokas	+90 2129120445	Business Support	
		Bettina Mahoric	+43 (0)50100 86441

CEE Market Insights | Fixed Income | Central and Eastern Europe 20 May 2019

#### **Disclaimer**

This publication was prepared by Erste Group Bank AG or any of its consolidated subsidiaries (together with consolidated subsidiaries "Erste Group") independently and objectively as other information pursuant to the Circular of the Austrian Financial Market Authority regarding information including marketing communication pursuant to the Austrian Securities Supervision Act. This publication serves interested investors as additional source of information and provides general information, information about product features or macroeconomic information without emphasizing product selling marketing statements. This publication does not constitute marketing communication pursuant to Art. 36 (2) Austrian Securities Supervision Act as no direct buying incentives were included in this publication, which is of information character. This publication does not constitute investment research pursuant to § 36 (1) Austrian Securities Supervision Act. It has not been prepared in accordance with legal requirements designed to promote the independence of investment research and it is not subject to the prohibition on dealing ahead of the dissemination of investment research. The information only serves as non-binding and additional information and is based on the level of knowledge of the person in charge of drawing up the information on the respective date of its preparation. The content of the publication can be changed at any time without notice. This publication does not constitute or form part of, and should not be construed as, an offer, recommendation or invitation to subscribe for or purchase any securities, and neither this publication nor anything contained herein shall form the basis of or be relied on in connection with or act as an inducement to enter into any contract or inclusion of a security or financial product in a trading strategy. Information provided in this publication are based on publicly available sources which Erste Group considers as reliable, however, without verifying any such information by independent third persons. While all reasonable care has been taken to ensure that the facts stated herein are accurate and that the forecasts, opinions and expectations contained herein are fair and reasonable, Erste Group (including its representatives and employees) neither expressly nor tacitly makes any guarantee as to or assumes any liability for the up-to-dateness, completeness and correctness of the content of this publication. Erste Group may provide hyperlinks to websites of entities mentioned in this document, however the inclusion of a link does not imply that Erste Group endorses, recommends or approves any material on the linked page or accessible from it. Neither a company of Erste Group nor any of its respective managing directors, supervisory board members, executive board members, directors, officers of other employees shall be in any way liable for any costs, losses or damages (including subsequent damages, indirect damages and loss of profit) howsoever arising from the use of or reliance on this publication. Any opinion, estimate or projection expressed in this publication reflects the current judgment of the author(s) on the date of publication of this document and do not necessarily reflect the opinions of Erste Group. They are subject to change without prior notice. Erste Group has no obligation to update, modify or amend this publication or to otherwise notify a reader thereof in the event that any matter stated herein, or any opinion, projection, forecast or estimate set forth herein, changes or subsequently becomes inaccurate. The past performance of securities or financial instruments is not indicative for future results. No assurance can be given that any financial instrument or issuer described herein would yield favorable investment results or that particular price levels may be reached. Forecasts in this publication are based on assumptions which are supported by objective data. However, the used forecasts are not indicative for future performance of securities or financial instrument. Erste Group, its affiliates, principals or employees may have a long or short position or may transact in the financial instrument(s) referred to herein or may trade in such financial instruments with other customers on a principal basis. Erste Group may act as a market maker in the financial instruments or companies discussed herein and may also perform or seek to perform investment services for those companies. Erste Group may act upon or use the information or conclusion contained in this publication before it is distributed to other persons. This publication is subject to the copyright of Erste Group and may not be copied, distributed or partially or in total provided or transmitted to unauthorized recipients. By accepting this publication, a recipient hereof agrees to be bound by the foregoing limitations.

© Erste Group Bank AG 2019. All rights reserved.

#### Published by:

Erste Group Bank AG Group Research 1100 Vienna, Austria, Am Belvedere 1 Head Office: Wien Commercial Register No: FN 33209m Commercial Court of Vienna

Erste Group Homepage: www.erstegroup.com