CEE Market Insights 25 July 2022



## **CEE Market Insights**

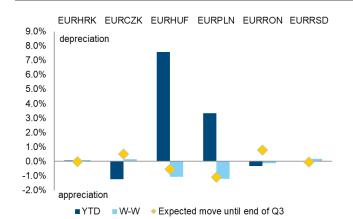
Hungarian central bank and Czech GDP in focus

## This week in CEE

A busy week awaits us. Tuesday's Hungarian central bank meeting will be in special focus. Given the bigger-than-expected hike of the ECB, anticipated further tightening of the US Fed, as well as domestic factors – notably the vulnerability of the forint and considerable rate hiking expectations by market pricing – the MNB could increase its rates by at least 100bp. The key rate would thus reach 10.75% (or more if a larger hike occurs). Czechia will release its flash estimate of GDP growth in 2Q22. Impact of the war in Ukraine together with lower consumer demand stand behind the anticipated adverse development. Uncertainty is high though, mainly due to the development of inventories, which have become the most important contributor to GDP growth. We thus expect the Czech economy to have contracted by 1.3% q/q (still growing by 2.1% in y/y terms). Poland and Slovenia will release their flash inflation prints for July. These are expected to have inched up to 15.6% y/y in the former (market consensus) and 10.5% y/y in the latter. Moreover, Croatia, Slovenia and Serbia will publish their retail sales prints for June which should point to a moderation of growth paces (apart from Serbia). Croatian and Serbian industrial production figures for June will likely show a milder, but positive pace of growth. Moreover, June unemployment rates in Poland and Hungary, as well as June producer prices in Slovakia and Hungary will be out, too.

Monday	Tuesday	Wednesday	Thursday	Friday
PL: Unemployment	HU: Central bank	SK: PPI	HU: Unemployment	CZ: GDP
RS: Wages		SI: Retail sales		HU: PPI
				PL, SI: CPI
				HR, RS: Industry
				HR, RS: Retail sales
				RS: Trade balance
RO: 2032 Bonds	HU: T-bills	CZ: 2024, 2026 Bonds	PL: 2024, 2027, 2031, 2032 Bonds	
			CZ: T-bills	

## **FX** development



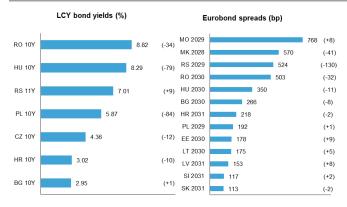
Source: Bloomberg, Erste Group Research

## **FX** market developments

Last week's key event was the ECB meeting which brought the first interest rate increase in 11 years. The 50bp hike (twice the guidance given in June) ended the era of negative rates. The ECB also introduced a new tool for the even transmission of monetary policy – the so-called Transmission Protection Instrument. The next steps will be data-driven, but the ECB is committed to monetary policy normalization. The euro strengthened in response but has erased the gains since. CEE currencies ended last week mostly on a stronger footing, despite the larger-than-expected ECB hike. The forint appreciated towards 398.7 and the zloty close to 4.75 against the

euro, respectively. Even the leu firmed to 4.93 vs. EUR, but the koruna eased a tiny bit to 24.53 vs. EUR. Polish central banker Sura resigned in a surprising move given his term expires in four months – reducing the 10-person MPC to 7 members. NBP Governor Glapinski suggested the central bank may be heading towards the peak of its rate-hiking cycle, a view echoed by MPC member Dabrowski. The forint benefitted from the submission of anti-graft legislation to Hungary's parliament, aimed at reaching a deal with the EU over its EU funds, and the approval of the 2023 budget. However, relations soured as Hungarian parliament voted to abolish the "ever closer union" expression in EU treaties and proposed severe curtailment of European Parliament powers, Czech Vice Governor Mora said he is in favour of using just interest rates and not the exchange rate as a policy tool, but he deems decisive action necessary to quell inflation. The new Vice Governor Zamrazilova stated she prefers stable rates or a small hike at the next meeting in August.

## LCY yields, Eurobond spreads



Source: Bloomberg, Erste Group Research

## **Bond market developments**

Yields on government bonds corrected across most of the region last week. Hungarian and Polish government bonds marked the largest moves as their 10-year yields dropped by 74bp and 82bp, respectively. The most visible exception was the 2028 Serbian bond that saw an increase of 20bp compared to the preceding Friday. The approval of the 2023 budget in Hungary helped, as the fiscal deficit is set to decline to 3.5% of GDP next year, down from this year's targeted 4.9%. The government is trying to get its fiscal stance on a sustainable track at a time of high inflation, widening current account deficit and a weak forint. Yet, even after the correction, 10Y yield in Hungary remains close to 8.34% - not too far from the 10Y Romanian yield of 8.86%. Romanian yield curve inverted (as the 3Y yield just about exceeded the 10Y one), joining the ranks of Czechia, Hungary and Poland. Fitch upheld the ratings for Hungary and Poland at BBB and A-, respectively. The outlook for both remains stable.

## In case you missed

EA: First ECB rate hike in 11 years ended the era of negative rates.

CEE: We published a report on housing markets: CEE Special: House prices to cool down.

We published the Baltics Outlook: Steering economies through difficult waters.

## **Upcoming releases in CEE**

Date	Time	Country	Indicator	Period	Survey	Erste Est.	Prev.	Comment
25. Jul	10:00	PL	Unemployment Rate	Jun	4.92%		5.1%	
	12:00	RS	Wages (y/y)	May			2.6%	
26. Jul	14:00	HU	Central Bank Rate	Jul	10.50%	10.8%	9.8%	Given bigger than expected hike of the ECB, vulnerability of the forint, and considerable rate hiking expectations by market pricing, the MNB could increase its rates at least by 100bp at the July rate-setting meeting.
27. Jul	9:00	sĸ	PPI (y/y)	Jun		38.6%	40.9%	On a monthly basis, we expect a slight calming of the pressures on the market, resulting in a decrease compared to May. However, the year-on-year level remains high.
	10:30	SI	Retail Sales (y/y)	Jun		10.0%	25.1%	Retail trade growth expected to remain high
28. Jul		HU	Unemployment Rate	Jun	3.50%	3.5%	3.4%	No relevant change in labor market processes is expected.
29. Jul	9:00	cz	GDP (q/q)	2Q A	-0.23%	-1.3%	0.9%	Impacts of the war in Ukraine together with lower consumer demand stand behind adverse development. Uncertainty is high, mainly due to development of inventories, which have become the most most important contributor to GDP growth.
	9:00	cz	GDP (y/y)	2Q A		2.1%	4.9%	GDP growth in the y/y terms has been worsening, which will also continue in H2 2022.
	9:00	HU	PPI (y/y)	Jun			32.3%	
	10:00	PL	CPI (y/y)	Jul P	15.60%		15.5%	
	10:00	PL	CPI (m/m)	Jul P			1.5%	
	10:30	SI	CPI (y/y)	Jul		10.5%	10.4%	July inflation expected to remain at peak with another double-digit print
	10:30	SI	CPI (m/m)	Jul			2.7%	
	11:00	HR	Industrial Production (y/y)	Jun		2.0%	3.0%	Industrial production seen remaining in mild positive area also in June
	11:00	HR	Retail Sales (y/y)	Jun		3.5%	4.3%	Consumption expected to maintain positive footprint, despite inflation remaining the strong drag
	12:00	RS	Industrial Production (y/y)	Jun		4.5%	8.7%	We expect continuation of mid-single digit growth of industry
	12:00	RS	Retail Sales (y/y)	Jun		6.5%	5.1%	Retail likely remained relatively resilient despite high inflation
	12:00	RS	Trade Balance	Jun			-1141.10	

Source: Erste Group Resarch

## Analyst:

Katarina Gumanova +43 5 0100 17336 katarina.gumanova@erstegroup.com

Juraj Kotian +43 (0)5 0100 17357 juraj.kotian@erstegroup.com Note: Past performance is not necessarily indicative of future results

Erste Group Research CEE Market Insights 25 July 2022

## **Forecasts**

Government bond yields							
	current	2022Q3	2022Q4	2023Q1	2023Q2		
Croatia 10Y	3.1	3.6	3.6	3.6	3.6		
spread (bps)	204	203	199	196	201		
Czechia 10Y	4.4	4.4	4.3	4.2	4.0		
spread (bps)	331	287	270	254	237		
Hungary 10Y	8.3	8.5	8.4	7.8	7.2		
spread (bps)	723	691	681	618	563		
Poland 10Y	5.9	6.2	6.1	5.9	5.7		
spread (bps)	483	466	445	425	409		
Romania10Y	8.7	9.0	8.8	8.5	8.3		
spread (bps)	770	743	714	686	666		
Slovakia 10Y	2.0	2.5	2.7	2.9	2.9		
spread (bps)	99	93	109	121	131		
Slovenia 10Y	2.11	2.60	2.60	2.70	2.70		
spread (bps)	107	103	99	106	111		
Serbia 5Y	6.5	6.5	6.3	6.0	5.7		
spread (bps)	549	493	469	436	411		
DE10Y*	1.04	1.57	1.61	1.64	1.59		

* Spreads based on Bloomberg consensus forecas
--

3M Money Market Rate							
	current	2022Q3	2022Q4	2023Q1	2023Q2		
Czechia	7.33	7.10	6.50	5.74	4.98		
Hungary	11.58	11.45	12.20	12.20	10.45		
Poland	7.00	7.50	7.80	7.75	7.75		
Romania	7.36	8.15	9.05	8.25	7.75		
Serbia	2.59	3.12	3.12	3.12	3.12		
Eurozone	0.20	0.73	0.73	0.81	0.98		

Real GDP growth (%)						
	2020	2021	2022f	2023f		
Croatia	-8.1	10.2	4.9	2.1		
Czechia	-5.8	3.3	1.6	2.4		
Hungary	-4.7	7.1	5.5	2.8		
Poland	-2.2	5.9	4.2	3.1		
Romania	-3.7	5.9	5.1	4.0		
Serbia	-0.9	7.4	2.5	3.7		
Slovakia	-4.4	3.0	2.0	3.0		
Slovenia	-4.2	8.1	4.7	1.9		
CEE8 avg	-3.7	5.7	3.9	3.0		
Public debt (% of GDP)						
	2020	2021	2022f	2023f		

Public debt (% of GDP)							
	2020	2021	2022f	2023f			
Croatia	87.3	79.8	71.5	69.0			
Czechia	37.7	41.9	43.4	44.3			
Hungary	79.6	76.8	73.2	70.8			
Poland	57.1	53.8	55.0	52.0			
Romania	47.2	48.8	48.3	49.1			
Serbia	57.0	56.5	54.6	54.0			
Slovakia	59.7	63.1	63.6	62.3			
Slovenia	79.8	74.7	73.0	72.8			
CEE8 avg	56.9	55.9	55.8	54.2			

Source: Bloomberg, Erste Group Research

FX		000000	000001	000004	000000
		2022Q3			
EURHRK	7.52	7.52	7.53	7.53	7.53
EURCZK	24.54	24.70	24.50	24.36	24.29
EURHUF	396.67	395.00	390.00	385.00	375.00
EURPLN	4.73	4.69	4.62	4.50	4.45
EURRON	4.93	4.97	5.00	5.02	5.05
EURRSD	117.39	117.50	117.60	117.60	117.60
EURUSD	1.02	1.03	1.05	1.10	1.13

Key Interest Rate							
	current	2022Q3	2022Q4	2023Q1	2023Q2		
Croatia	0.05	0.05	0.05	0.05	0.05		
Czechia	7.00	7.00	6.50	5.75	5.00		
Hungary	9.75	11.25	12.00	12.00	10.25		
Poland	6.50	7.00	7.50	7.50	7.50		
Romania	4.75	5.50	6.25	6.25	6.25		
Serbia	2.75	3.00	3.00	3.00	3.00		
Eurozone	0.50	1.00	1.25	1.25	1.25		

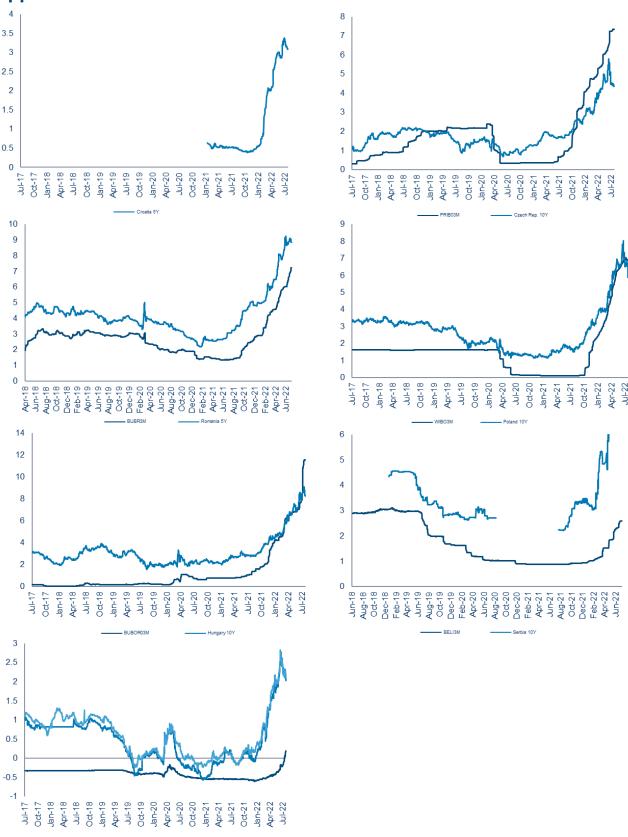
Average inflation (%)							
	2020	2021	2022f	2023f			
Croatia	0.1	2.6	10.0	5.6			
Czechia	3.2	3.8	14.3	4.4			
Hungary	3.3	5.1	10.9	7.2			
Poland	3.4	5.1	13.9	10.2			
Romania	2.7	5.0	12.4	8.3			
Serbia	1.6	4.0	9.6	5.6			
Slovakia	1.9	3.2	11.4	7.8			
Slovenia	0.0	1.9	9.3	5.3			
CEE8 avg	2.8	4.5	12.8	8.0			
C/A (%GDP)							
	2020	2021	2022f	2023f			
Croatia	-0.1	3.4	0.7	-1.2			
Czechia	2.0	-0.8	-1.2	0.5			
Hungary	-1.1	-3.1	-5.9	-4.9			
Poland	2.9	-0.6	-1.3	-0.3			

	2020	2021	20221	20231	
Croatia	-0.1	3.4	0.7	-1.2	
Czechia	2.0	-0.8	-1.2	0.5	
Hungary	-1.1	-3.1	-5.9	-4.9	
Poland	2.9	-0.6	-1.3	-0.3	
Romania	-5.0	-7.0	-8.0	-7.9	
Serbia	-4.1	-4.4	-9.6	-8.9	
Slovakia	0.1	-2.0	-1.7	-1.3	
Slovenia	7.4	3.3	1.5	2.3	
CEE8 avg	0.7	-1.9	-3.0	-2.2	

Unemployment (%)							
	2020	2021	2022f	2023f			
Croatia	7.5	7.6	6.3	5.9			
Czechia	2.6	2.9	2.7	3.5			
Hungary	4.1	4.1	3.6	3.5			
Poland	5.9	5.9	5.3	5.2			
Romania	6.0	5.6	5.6	5.5			
Serbia	9.7	11.0	10.1	9.7			
Slovakia	6.7	6.8	6.6	6.2			
Slovenia	5.0	4.8	4.3	4.1			
CEE8 avg	5.4	5.4	5.0	5.0			
Budget Balance (%GDP)							
	2020	2021	2022f	2023f			
Croatia	-7.4	-2.9	-2.5	-2.5			
Czechia	-5.8	-5.9	-4.4	-3.1			

	2020	2021	2022f	2023f
Croatia	-7.4	-2.9	-2.5	-2.5
Czechia	-5.8	-5.9	-4.4	-3.1
Hungary	-7.8	-6.8	-4.9	-3.5
Poland	-6.9	-1.9	-3.9	-3.5
Romania	-9.3	-7.1	-6.7	-5.7
Serbia	-8.0	-4.1	-4.5	-2.5
Slovakia	-5.5	-6.2	-6.0	-4.0
Slovenia	-7.8	-5.2	-4.5	-3.5
CEE8 avg	-7.2	-4.4	-4.7	-3.8





Source: Bloomberg, Erste Group Research

# Erste Group Research CEE Market Insights 25 July 2022

## **Group Research**

Group Research			
Head of Group Research		Fixed Income Institutional Sales	
Friedrich Mostböck, CEFA®, CESGA®	+43 (0)5 0100 11902	Group Securities Markets	
CEE Macro/Fixed Income Research Head: Juraj Kotian (Macro/FI)	+43 (0)5 0100 17357	Head: Thomas Einramhof	+43 (0)50100 84432
Katarzyna Rzentarzewska (Fixed income)	+43 (0)5 0100 17356	Institutional Distribution Core Head: Jürgen Niemeier	+49 (0)30 8105800 5503
Katarina Gumanova	+43 (0)5 0100 17336		140 (0)00 0100000 0000
Croatia/Serbia Alen Kovac (Head)	+385 72 37 1383	Institutional Distribution DACH+ Head: Marc Friebertshäuser	+49 (0)711 810400 5540
Mate Jelić	+385 72 37 1443	Bernd Bollhof Andreas Goll	+49 (0)30 8105800 5525 +49 (0)711 810400 5561
Ivana Rogic	+385 72 37 2419	Mathias Gindele	+49 (0)711 810400 5562
Czech Republic David Navratil (Head)	+420 956 765 439	Ulrich Inhofner Sven Kienzle	+43 (0)5 0100 85544 +49 (0)711 810400 5541
Jiri Polansky	+420 956 765 192	Rene Klasen	+49 (0)30 8105800 5521
Michal Skorepa	+420 956 765 172	Christopher Lampe-Traupe Karin Rattay	+49 (0)30 8105800 5523 +43 (0)5 0100 84118
Hungary	004 000 4400	Michael Schmotz Klaus Vosseler	+43 (0)5 0100 85542 +49 (0)711 810400 5560
Orsolya Nyeste János Nagy	+361 268 4428 +361 272 5115	Slovakia	
Romania		Šarlota Šipulová Monika Směliková	+421 2 4862 5619 +421 2 4862 5629
Ciprian Dascalu (Head)	+40 3735 10108	Institutional Distribution CEE & Insti AM CZ	
Eugen Sinca Dorina Ilasco	+40 3735 10435 +40 3735 10436	Head: Antun Burić	+385 (0)7237 2439
Vlad Nicolae Ionita	+40 7867 15618	Jaromir Malak	+43 (0)5 0100 84254
Slovakia		Czech Republic Head: Ondrej Čech	+420 2 2499 5577
Maria Valachyova (Head) Matej Hornak	+421 2 4862 4185 +421 902 213 591	Milan Bartoš	+420 2 2499 5562
•		Jan Porvich	+420 2 2499 5566
Major Markets & Credit Research Head: Gudrun Egger, CEFA®	+43 (0)5 0100 11909	Institutional Asset Management Czech Republic	400 050 705 450
Ralf Burchert, CEFA® (Sub-Sovereigns & Agencies) Hans Engel (Global Equities)	+43 (0)5 0100 16314 +43 (0)5 0100 19835	Head: Petr Holeček Petra Maděrová	+420 956 765 453 +420 956 765 178
Margarita Grushanina (Austria, Quant Analyst)	+43 (0)5 0100 11957	Martin Peřina David Petráček	+420 956 765 106 +420 956 765 809
Peter Kaufmann, CFA® (Corporate Bonds) Heiko Langer (Financials & Covered Bonds)	+43 (0)5 0100 11183 +43 (0)5 0100 85509	Blanka Weinerová	+420 956 765 317
Stephan Lingnau (Global Equities) Carmen Riefler-Kowarsch (Financials & Covered Bonds)	+43 (0)5 0100 16574	Petr Valenta Croatia	+420 956 765 140
Rainer Singer (Euro, US)	+43 (0)5 0100 19632 +43 (0)5 0100 17331	Head: Antun Burić	+385 (0)7237 2439
Bernadett Povazsai-Römhild, CEFA® (Corporate Bonds) Elena Statelov, CIIA® (Corporate Bonds)	+43 (0)5 0100 17203 +43 (0)5 0100 19641	Zvonimir Tukač Natalija Zujic	+385 (0)7237 1787 +385 (0)7237 1638
Gerald Walek, CFA® (Euro, CHF)	+43 (0)5 0100 16360	Hungary Head: Peter Csizmadia	+36 1 237 8211
CEE Equity Research		Gábor Bálint	+36 1 237 8205
Head: Henning Eßkuchen Daniel Lion, CIIA® (Technology, Ind. Goods&Services)	+43 (0)5 0100 19634 +43 (0)5 0100 17420	Ádám Szönyi Romania and Bulgaria	+36 1 237 8213
Michael Marschallinger, CFA®	+43 (0)5 0100 17906	Head: Octavian Florin Munteanu	+40 746128914
Nora Nagy (Telecom) Christoph Schultes, MBA, CIIA <sup>®</sup> (Real Estate)	+43 (0)5 0100 17416 +43 (0)5 0100 11523	Group Institutional Equity Sales	
Thomas Unger, CFA® (Banks, Insurance) Vladimira Urbankova, MBA (Pharma)	+43 (0)5 0100 17344	Head: Brigitte Zeitlberger-Schmid Werner Fürst	+43 (0)50100 83123 +43 (0)50100 83121
Martina Valenta, MBA	+43 (0)5 0100 17343 +43 (0)5 0100 11913	Josef Kerekes Czech Republic	+43 (0)50100 83125
Croatia/Serbia		Head: Michal Řízek	+420 224 995 537
Mladen Dodig (Head) Anto Augustinovic	+381 11 22 09178 +385 72 37 2833	Jiří Fereš Martin Havlan	+420 224 995 554 +420 224 995 551
Magdalena Basic	+385 72 37 1407	Pavel Krabička	+420 224 995 411
Davor Spoljar, CFA®	+385 72 37 2825	Poland Head: Jacek Jakub Langer	+48 22 257 5711
Czech Republic	400 050 705 007	Tomasz Galanciak Wojciech Wysocki	+48 22 257 5715 +48 22 257 5714
Petr Bartek (Head) Jan Safranek	+420 956 765 227 +420 956 765 218	Przemyslaw Nowosad	+48 22 257 5712
Hungary		Grzegorz Stepien Croatia	+48 22 257 5713
József Miró (Head)	+361 235 5131	Matija Tkalicanac Hungary	+385 72 37 21 14
András Nagy Tamás Pletser, CFA <sup>®</sup>	+361 235 5132 +361 235 5135	Nandori Levente	+ 36 1 23 55 141
Poland		Krisztian Kandik Balasz Zankay	+ 36 1 23 55 162 + 36 1 23 55 156
Cezary Bernatek (Head)	+48 22 257 5751	Romania Liviu Avram	
Piotr Bogusz Łukasz Jańczak	+48 22 257 5755 +48 22 257 5754		+40 3735 16569
Krzysztof Kawa Jakub Szkopek	+48 22 257 5752	Group Fixed Income Securities Markets Head: Goran Hoblaj	+43 (0)50100 84403
	+48 22 257 5753	FISM Flow	(-),
Romania Caius Rapanu	+40 3735 10441	Head: Aleksandar Doric	+43 (0)5 0100 87487
Group Markets		Margit Hraschek Christian Kienesberger	+43 (0)5 0100 84117 +43 (0)5 0100 84323
Group Markets		Ciprian Mitu Bernd Thaler	+43 (0)5 0100 85612 +43 (0)5 0100 84119
Head of Group Markets Oswald Huber	+43 (0)5 0100 84901	Zsuzsanna Toth	+36-1-237 8209
	2 (3/0 0 100 0 100 1	Poland: Pawel Kielek	+48 22 538 6223
Group Markets Retail and Agency Business Head: Christian Reiss	+43 (0)5 0100 84012	Michal Jarmakowicz	+43 50100 85611
Markets Retail Sales AT		Group Fixed Income Securities Trading	
Head: Markus Kaller	+43 (0)5 0100 84239	Head: Goran Hoblaj	+43 (0)50100 84403
Group Markets Execution Head: Kurt Gerhold	+43 (0)5 0100 84232	Group Equity Trading & Structuring	. 42 (0)50462 20044
	1-0 (0)0 0100 04202	Head: Ronald Nemec	+43 (0)50100 83011
Retail & Sparkassen Sales Head: Uwe Kolar	+43 (0)5 0100 83214	Business Support Bettina Mahoric	+43 (0)50100 86441
Corporate Treasury Product Distribution AT			* *
Head: Christian Skopek	+43 (0)5 0100 84146		

## **Erste Group Research**

CEE Market Insights 25 July 2022

### **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 upto-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. This document is only made to or directed at investment professionals (as that term is defined in Article 19(5) of the Financial Services and Markets Act 2000 (Financial promotion) Order 2005 ("FPO")) or to persons for whom it would otherwise be lawful to distribute it. Accordingly, persons who do not have professional experience in matters relating to investments should not rely on this document.

© Erste Group Bank AG 2022. 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