

CZECHIA | MACRO OUTLOOK

Gradual economic recovery

GDP growth to accelerate next year CNB to cut rates cautiously Yield curve has remained stable Koruna has slightly strengthened

Economy (%)	2024e	2025e	2026e
GDP (real, y/y)	0.9	2.7	2.9
Unempl. Rate	2.8	3.4	3.8
CPI (y/y)	2.4	2.5	2.2
Retail Sales (y/y)	3.7	3.0	2.9
Ind. Prod. (y/y)	-1.5	2.6	3.1
Public Debt/GDP	44.9	45.1	45.3
Carrage Frata Crave Bassan	-4-		

Source: Erste Group Research

Market	Spot	24Q4	25Q1	25Q2
EUR/CZK	25.08	24.80	24.52	24.44
USD/CZK	22.65	22.55	22.09	21.92
Target Rate (%)	4.50	4.00	4.00	3.75
3M Rate (%)	4.33	4.07	4.00	3.76
2Y Bond (%)*	3.27	3.64	3.52	3.36
5Y Bond (%)*	3.42	3.58	3.49	3.39
10Y Bond (%)*	3.70	3.70	3.63	3.54

Source: FactSet, Erste Group Research

Rating	Current	Outlook
Moodys	Aa3	stable
S&P	AA-	stable
Fitch	AA-	stable

Source: Erste Group Research

General	2024
Population mn	10.9
GDP/Capita EUR	28,988

Source: Erste Group Research

Spot Rates as of: 12th Sep. 2024

All Research on Czechia:

erstegroup.com/research

Analysts:

David Navratil

DNavratil@csas.cz +420 956 765 439

Jiri Polansky

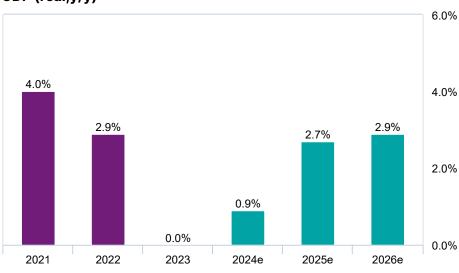
JPolansky@csas.cz +420 956 765 192

Note:

*Information on past performance is not a reliable indicator for future performance. Forecasts are not a reliable indicator for future performance. The Czech economy has emerged from stagnation and is slowly growing. Growth is currently being propelled primarily by a resurgence in household demand, which is expected to be complemented by foreign demand and private investment next year. Czech GDP has recently been revised significantly upwards, suggesting that the economy has outperformed initial expectations in recent years. The labor market remains robust, with real wages resuming growth this year, thereby fueling consumption. Although the unemployment rate has edged up slightly, it remains below the NAIRU.

Inflation is currently near the target, but is anticipated to rise in the coming months. Inflation is driven by robust price growth in the services sector, wage growth, and expansionary fiscal policy. These factors are expected to persist into next year, leading us to anticipate that the Czech National Bank will continue to cut rates cautiously. The koruna has recently adjusted back towards the EUR/CZK 25.0 level, aligning broadly with macroeconomic fundamentals. Consequently, we do not foresee significant further appreciation, although a slight movement by year-end cannot be ruled out.

GDP (real,y/y)





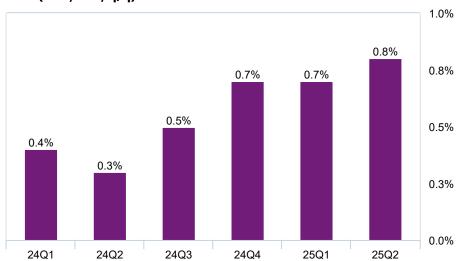
GDP

GDP growth to accelerate next year

The Czech economy is experiencing gradual growth, primarily driven by a resurgence in household consumption. This uptick is attributed to the return of inflation to low levels, an increase in real wages, and improved household sentiment. However, developments in real economic activity are still tempered by the sluggish economic conditions in Germany, which are manifesting in weak exports and private investment.

A more pronounced acceleration in the growth of the Czech economy is anticipated over the next two years, driven by an expected improvement in the Eurozone economy, which should enhance foreign trade and investment metrics. Additionally, expansionary fiscal policies, influenced by the upcoming parliamentary elections, will further bolster growth. Furthermore, inventory levels are projected to stabilize, mitigating the significant declines observed in recent years and positively impacting overall economic figures.

GDP (real, s.a., q/q)



Source: Erste Group Research

Annual	2022	2023	2024e	2025e	2026e
GDP real	2.9%	0.0%	0.9%	2.7%	2.9%
CPI (y/y)	15.1%	10.7%	2.4%	2.5%	2.2%
Private Consumption	0.4%	-2.9%	2.0%	2.9%	2.9%



Inflation

Inflation to strengthen in the coming months

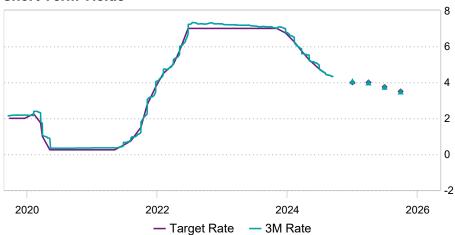
Inflation is expected to rise towards the end of this year, likely surpassing 3%, driven by strong wage growth, favorable household consumption and rising service prices, along with the base effect. Over the next two years, we expect average inflation to stay slightly above the inflation target, primarily due to an improved economic performance and continued growth in service prices. However, monetary policy and a slight cooling in the labor market will counteract these pressures. Food and energy prices represent the main uncertainty in both directions.

Monetary Policy

CNB to cut rates cautiously

For the rest of this year and the next, we expect the CNB to gradually cut interest rates, due to low expected inflation and weak GDP growth. However, important upside risks to inflation next year - such as wage growth, an expansionary fiscal policy and rising service prices - persist. Thus, the CNB is likely to remain cautious, in our view, and a preference for rate stability in some monetary policy sessions cannot be ruled out. For instance, we still see increased uncertainty for the December meeting, as a slight cut or rate stability are possible, contingent on new data or the koruna's performance.

Short Term Yields



Source: FactSet,	Erste	Group	Research

Market (%)	Spot	24Q4	25Q1	25Q2	25Q3
Target Rate	4.50	4.00	4.00	3.75	3.50
3M Rate	4.33	4.07	4.00	3.76	3.50

Source: FactSet, Erste Group Research



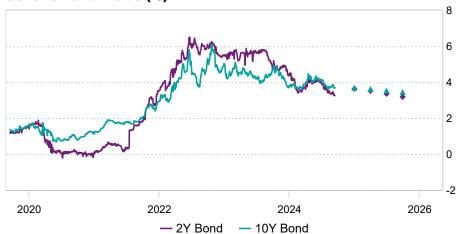
Bond Yields

Yield curve has remained stable

The yield curve has remained relatively stable recently, with no significant shifts in expectations for future monetary policy or macroeconomic developments. The market currently anticipates three 25bp rate cuts by the CNB for the remainder of the year. However, we believe the situation remains fluid, particularly for the December meeting, given the uptick in inflation, and a minor adjustment to the curve cannot be ruled out. Overall, we do not foresee substantial changes in the curve.

Over the next year, we anticipate a very gradual decline in the yield curve. This is primarily attributable to decreasing CNB rates, which are expected to trend towards a key rate close to 3% over the next two years. The Eurozone's monetary easing is likely to mirror this trend. Conversely, the Ministry of Finance's consistently high issuance activity will continue to limit the yield decline, despite the reduced volumes observed this year.

Generic Bond Yields (%)



Source: FactSet, Erste Group Research

Market	Spot	24Q4	25Q1	25Q2	25Q3
2Y Bond*	3.27	3.64	3.52	3.36	3.19
5Y Bond*	3.42	3.58	3.49	3.39	3.30
10Y Bond*	3.70	3.70	3.63	3.54	3.46

Source: FactSet, Erste Group Research



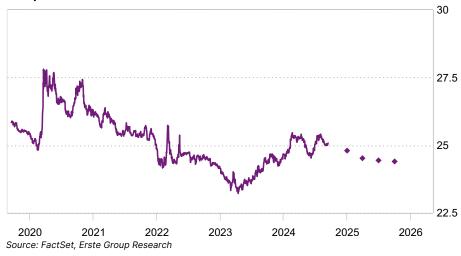
Czech Koruna

Koruna has slightly strengthened

The koruna has recently partially corrected its previous depreciation and is now only slightly above the EUR/CZK 25.0 level. This movement was influenced by summer data from the US labor market and possibly previously overly optimistic market expectations regarding the future monetary policy of the Czech National Bank. We view the current level of the koruna as broadly aligned with macroeconomic fundamentals and, therefore, do not anticipate any significant movement at this time.

Over the ensuing years, the koruna might experience a very mild strengthening, primarily driven by economic revival, including increased foreign demand, the cautious monetary policy of the CNB, and an improvement in market sentiment. Nevertheless, it is crucial to note that the currency's value will likely remain susceptible to shifts in market moods. Consequently, various global economic or geopolitical events, including the outcome of the US election, could influence its trajectory.

EUR/CZK



	Spot	24Q4	25Q1	25Q2	25Q3
EUR/CZK	25.08	24.80	24.52	24.44	24.40
vs. Spot		-1.1%	-2.2%	-2.6%	-2.7%
USD/CZK	22.65	22.55	22.09	21.92	21.67
vs. Spot		-0.4%	-2.5%	-3.2%	-4.3%

Source: FactSet, Erste Group Research



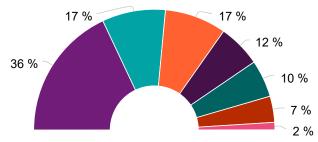
Politics

Parliamentary elections to affect policy

The current pro-EU ruling coalition holds a robust majority in parliament with 108 out of 200 seats, thereby mitigating instability risks. With the next parliamentary elections scheduled for October next year, it is likely that the government will focus on enhancing public support rather than enacting substantial reforms. In our assessment, the upcoming municipal and Senate elections in the second half of September 2024 are unlikely to exert a significant impact on national politics.

In January 2024, the government introduced a fiscal consolidation package, with initial indicators suggesting an improvement in public finances. However, comprehensive measures addressing both revenue and expenditure will likely be necessary. Given the impending elections, further significant actions in this cycle are improbable and may be deferred. Additionally, the improved economic climate is expected to have a favorable impact on public finances.

Parliament Seats





Last Election:

2021, October

Next Election:

2025, October

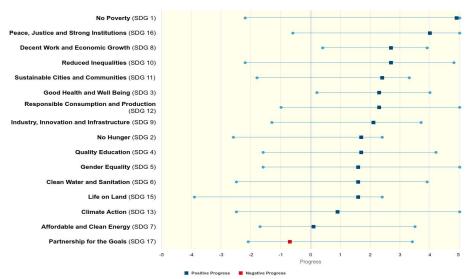


Sustainable Development Goals

Best performance deals with low poverty rates

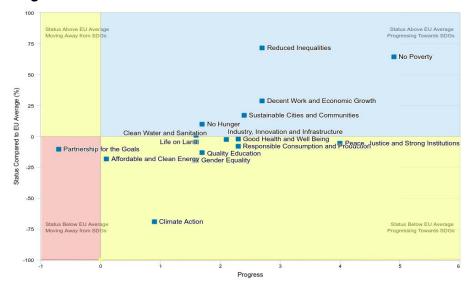
Among the SDG goals, Czechia still has the best performance in terms of goals associated with poverty, as it has one of the lowest poverty rates in the OECD. Moreover, the situation dealing with institutional quality has improved markedly. On the other hand, given the relatively strong share of industry in GDP, additional energy- and carbon-reducing effort needs to be made. Also, there is scope for improving gender equality, although relatively significant progress has already been made here.

Progress Overview



Source: Erste Group Research

Progress Overview

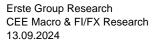






Forecasts

2018	2019	2020	2021	2022	2023	2024e	2025e	2026e
2.8	3.5	-5.3	4.0	2.9	0.0	0.9	2.7	2.9
2.1	2.8	3.2	3.8	15.1	10.7	2.4	2.5	2.2
2.2	2.0	2.6	2.8	2.2	2.6	2.8	3.4	3.8
4.5	4.2	-1.5	3.8	-3.1	-4.5	3.7	3.0	2.9
3.0	-0.5	-6.8	6.1	2.3	-0.8	-1.5	2.6	3.1
3.4	3.0	-6.6	4.1	0.4	-2.9	2.0	2.9	2.9
8.9	7.4	-4.8	6.7	6.3	2.7	-0.4	3.2	3.0
1.8	2.3	3.2	0.0	-3 1	1.8	1 4	1 9	2.2
								1.0
								2.8
								-2.0
								45.3
80.5	74.4	74.1	71.7	63.2	59.8	58.4	56.5	54.3
21.74	22.93	23.22	21.68	23.35	22.19	23.05	21.87	21.24
25.65	25.67	26.46	25.64	24.56	24.00	25.04	24.46	24.21
25.72	25.42	26.24	24.89	24.16	24.70	24.80	24.35	24.10
4.00	4.00	0.77	0.00	504	7.00	F 40	0.70	0.00
								3.09
								3.14
								2.99
								3.21
2.02	1.61	1.18	1.96	4.45	4.52	3.93	3.54	3.39
	2.8 2.1 2.2 4.5 3.0 3.4 8.9 1.8 0.4 3.3 0.9 31.6 80.5	2.8 3.5 2.1 2.8 2.2 2.0 4.5 4.2 3.0 -0.5 3.4 3.0 8.9 7.4 1.8 2.3 0.4 0.3 3.3 4.2 0.9 0.3 31.6 29.5 80.5 74.4 21.74 22.93 25.65 25.67 25.72 25.42 1.06 1.92 1.27 2.12 1.06 1.57 1.48 1.42	2.8 3.5 -5.3 2.1 2.8 3.2 2.2 2.0 2.6 4.5 4.2 -1.5 3.0 -0.5 -6.8 3.4 3.0 -6.6 8.9 7.4 -4.8 1.8 2.3 3.2 0.4 0.3 1.9 3.3 4.2 3.3 0.9 0.3 -5.6 31.6 29.5 36.9 80.5 74.4 74.1 21.74 22.93 23.22 25.65 25.67 26.46 25.72 25.42 26.24 1.06 1.92 0.77 1.27 2.12 0.86 1.06 1.57 0.59 1.48 1.42 0.87	2.8 3.5 -5.3 4.0 2.1 2.8 3.2 3.8 2.2 2.0 2.6 2.8 4.5 4.2 -1.5 3.8 3.0 -0.5 -6.8 6.1 3.4 3.0 -6.6 4.1 8.9 7.4 -4.8 6.7 1.8 2.3 3.2 0.0 0.4 0.3 1.9 -2.7 3.3 4.2 3.3 4.4 0.9 0.3 -5.6 -5.0 31.6 29.5 36.9 40.7 80.5 74.4 74.1 71.7 21.74 22.93 23.22 21.68 25.65 25.67 26.46 25.64 25.72 25.42 26.24 24.89 1.06 1.92 0.77 0.88 1.27 2.12 0.86 1.13 1.06 1.57 0.59 1.59 1.48 1.42 0.87 1.85	2.8 3.5 -5.3 4.0 2.9 2.1 2.8 3.2 3.8 15.1 2.2 2.0 2.6 2.8 2.2 4.5 4.2 -1.5 3.8 -3.1 3.0 -0.5 -6.8 6.1 2.3 3.4 3.0 -6.6 4.1 0.4 8.9 7.4 -4.8 6.7 6.3 1.8 2.3 3.2 0.0 -3.1 0.4 0.3 1.9 -2.7 -5.9 3.3 4.2 3.3 4.4 3.5 0.9 0.3 -5.6 -5.0 -3.1 31.6 29.5 36.9 40.7 42.5 80.5 74.4 74.1 71.7 63.2 21.74 22.93 23.22 21.68 23.35 25.65 25.67 26.46 25.64 24.56 25.72 25.42 26.24 24.89 24.16 1.06 1.92 0.77 0.88 5.94 1.27 <t< td=""><td>2.8 3.5 -5.3 4.0 2.9 0.0 2.1 2.8 3.2 3.8 15.1 10.7 2.2 2.0 2.6 2.8 2.2 2.6 4.5 4.2 -1.5 3.8 -3.1 -4.5 3.0 -0.5 -6.8 6.1 2.3 -0.8 3.4 3.0 -6.6 4.1 0.4 -2.9 8.9 7.4 -4.8 6.7 6.3 2.7 1.8 2.3 3.2 0.0 -3.1 1.8 0.4 0.3 1.9 -2.7 -5.9 1.2 3.3 4.2 3.3 4.4 3.5 1.9 0.9 0.3 -5.6 -5.0 -3.1 -3.5 31.6 29.5 36.9 40.7 42.5 42.3 80.5 74.4 74.1 71.7 63.2 59.8 21.74 22.93 23.22 21.68 23.35 22.19 25.65 25.67 26.46 25.64 24.56 24.00</td><td>2.8 3.5 -5.3 4.0 2.9 0.0 0.9 2.1 2.8 3.2 3.8 15.1 10.7 2.4 2.2 2.0 2.6 2.8 2.2 2.6 2.8 4.5 4.2 -1.5 3.8 -3.1 -4.5 3.7 3.0 -0.5 -6.8 6.1 2.3 -0.8 -1.5 3.4 3.0 -6.6 4.1 0.4 -2.9 2.0 8.9 7.4 -4.8 6.7 6.3 2.7 -0.4 1.8 2.3 3.2 0.0 -3.1 1.8 1.4 0.4 0.3 1.9 -2.7 -5.9 1.2 0.5 3.3 4.2 3.3 4.4 3.5 1.9 2.3 0.9 0.3 -5.6 -5.0 -3.1 -3.5 -2.7 31.6 29.5 36.9 40.7 42.5 42.3 44.9 80.5 74.4 74.1 71.7 63.2 59.8 58.4 21.</td><td>2.8 3.5 -5.3 4.0 2.9 0.0 0.9 2.7 2.1 2.8 3.2 3.8 15.1 10.7 2.4 2.5 2.2 2.0 2.6 2.8 2.2 2.6 2.8 3.4 4.5 4.2 -1.5 3.8 -3.1 -4.5 3.7 3.0 3.0 -0.5 -6.8 6.1 2.3 -0.8 -1.5 2.6 3.4 3.0 -6.6 4.1 0.4 -2.9 2.0 2.9 8.9 7.4 -4.8 6.7 6.3 2.7 -0.4 3.2 1.8 2.3 3.2 0.0 -3.1 1.8 1.4 1.9 0.4 0.3 1.9 -2.7 -5.9 1.2 0.5 0.8 3.3 4.2 3.3 4.4 3.5 1.9 2.3 2.7 0.9 0.3 -5.6 -5.0 -3.1 -3.5 -2.7<!--</td--></td></t<>	2.8 3.5 -5.3 4.0 2.9 0.0 2.1 2.8 3.2 3.8 15.1 10.7 2.2 2.0 2.6 2.8 2.2 2.6 4.5 4.2 -1.5 3.8 -3.1 -4.5 3.0 -0.5 -6.8 6.1 2.3 -0.8 3.4 3.0 -6.6 4.1 0.4 -2.9 8.9 7.4 -4.8 6.7 6.3 2.7 1.8 2.3 3.2 0.0 -3.1 1.8 0.4 0.3 1.9 -2.7 -5.9 1.2 3.3 4.2 3.3 4.4 3.5 1.9 0.9 0.3 -5.6 -5.0 -3.1 -3.5 31.6 29.5 36.9 40.7 42.5 42.3 80.5 74.4 74.1 71.7 63.2 59.8 21.74 22.93 23.22 21.68 23.35 22.19 25.65 25.67 26.46 25.64 24.56 24.00	2.8 3.5 -5.3 4.0 2.9 0.0 0.9 2.1 2.8 3.2 3.8 15.1 10.7 2.4 2.2 2.0 2.6 2.8 2.2 2.6 2.8 4.5 4.2 -1.5 3.8 -3.1 -4.5 3.7 3.0 -0.5 -6.8 6.1 2.3 -0.8 -1.5 3.4 3.0 -6.6 4.1 0.4 -2.9 2.0 8.9 7.4 -4.8 6.7 6.3 2.7 -0.4 1.8 2.3 3.2 0.0 -3.1 1.8 1.4 0.4 0.3 1.9 -2.7 -5.9 1.2 0.5 3.3 4.2 3.3 4.4 3.5 1.9 2.3 0.9 0.3 -5.6 -5.0 -3.1 -3.5 -2.7 31.6 29.5 36.9 40.7 42.5 42.3 44.9 80.5 74.4 74.1 71.7 63.2 59.8 58.4 21.	2.8 3.5 -5.3 4.0 2.9 0.0 0.9 2.7 2.1 2.8 3.2 3.8 15.1 10.7 2.4 2.5 2.2 2.0 2.6 2.8 2.2 2.6 2.8 3.4 4.5 4.2 -1.5 3.8 -3.1 -4.5 3.7 3.0 3.0 -0.5 -6.8 6.1 2.3 -0.8 -1.5 2.6 3.4 3.0 -6.6 4.1 0.4 -2.9 2.0 2.9 8.9 7.4 -4.8 6.7 6.3 2.7 -0.4 3.2 1.8 2.3 3.2 0.0 -3.1 1.8 1.4 1.9 0.4 0.3 1.9 -2.7 -5.9 1.2 0.5 0.8 3.3 4.2 3.3 4.4 3.5 1.9 2.3 2.7 0.9 0.3 -5.6 -5.0 -3.1 -3.5 -2.7 </td



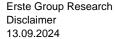
Page 9/12



Contacts

Group Research	
Head of Group Research	
Friedrich Mostböck, CEFA®, CESGA® CEE Macro/Fixed Income Research	+43 (0)5 0100 11902
Head CEE: Juraj Kotian (Macro/FI)	+43 (0)5 0100 17357
Katarzyna Rzentarzewska (Fixed income)	+43 (0)5 0100 17356
Jakub Cery (Fixed Income)	+43 (0)5 0100 17384
Croatia/Serbia	
Head: Alen Kovac (Fixed income)	+385 62 37 1383 +385 72 37 1443
Mate Jelic (Fixed income) Ivana Rogic (Fixed income)	+385 62 37 2419
Czech Republic	1000 02 07 2410
Head: David Navratil (Fixed income)	+420 956 765 439
Jiri Polansky (Fixed Income)	+420 956 765 192
Michal Skorepa (Fixed income)	+420 956 765 456
Hungary Orsolya Nyeste (Fixed Income)	+36 1 268 4428
Janos Nagy (Fixed Income)	+36 1 272 5115
Romania	
Head: Ciprian Dascalu	+40 3735 10108
Eugen Sinca (Fixed income) Dorina llasco (Fixed Income)	+40 3735 10435 +40 3735 10436
Vlad Nicolae Ionita (Fixed Income)	+40 7867 15618
Slovakia	107007 10010
Head: Maria Valachyova, (Fixed income)	+421 2 4862 4185
Matej Hornak (Fixed income)	+421 902 213 591
Marian Kocis (Fixed income) Major Markets & Credit Research	+421 904 677 274
Head: Rainer Singer	+43 (0)5 0100 17331
Ralf Burchert, CEFA®, CESGA® (Sub-Sovereigns &	+43 (0)5 0100 16314
Agencies)	
Hans Engel (Senior Analyst Global Equities)	+43 (0)5 0100 19835
Maurice Jiszda (Senior Economist USA, CHF) Peter Kaufmann, CFA® (Corporate Bonds)	+43 (0)5 0100 19630 +43 (0)5 0100 11183
Stephan Lingnau (Global Equities)	+43 (0)5 0100 11103
Heiko Langer (Financials & Covered Bonds)	+43 (0)5 0100 85509
Maximilian Möstl (Credit Analyst Austria)	+43 (0)5 0100 17211
Bernadett Povazsai-Römhild, CEFA®, CESGA® (Corporate	+43 (0)5 0100 17203
Bonds) Carmen Riefler-Kowarsch (Financials & Covered Bonds)	+43 (0)5 0100 19632
Elena Statelov, CIIA® (Corporate Bonds)	+43 (0)5 0100 19641
Gerald Walek, CFA® (Economist Eurozone)	+43 (0)5 0100 16360
CEE Equity Research	
Head: Henning Eßkuchen, CESGA® Daniel Lion, CllA® (Technology/Industrial Goods&Services)	+43 (0)5 0100 19634 +43 (0)5 0100 17420
Michael Marschallinger, CFA	+43 (0)5 0100 17420
Nora Nagy (Telecom)	+43 (0)5 0100 17416
Thomas Unger, CFA® (Banks, Insurance)	+43 (0)5 0100 16314
Christoph Schultes, MBA, CIIA® (Real Estate)	+43 (0)5 0100 11523
Vladimira Urbankova, MBA (Pharma) Martina Valenta, MBA	+43 (0)5 0100 17343
Croatia/Serbia	+43 (0)5 0100 11913
Head: Mladen Dodig (Equity)	+381 11 22 09 178
Boris Pevalek, CFA® (Equity)	+385 99 237 2201
Marko Plastic (Equity)	+385 99 237 5191
Matej Pretkovic (Equity) Magdalena Basic (Equity)	+385 99 237 7519 +385 99 237 1407
Boris Barbic (Equity)	+385 99 237 1041
Davor Spoljar, CFA® (Equity)	+385 62 37 2825
Czech Republic	
Head: Petr Bartek (Equity, Utilities)	+420 956 765 227
Jan Bystricky (Equity) Hungary	+420 956 765 218
Head: Jozsef Miro	+361 235 5131
Andras Nagy (Equity)	+361 235-5132
Tamas Pletser, CFA® (Equity, Oil&Gas)	+361 235-5135
Poland Head: Cezary Bernatek (Equity)	±10 22 257 57 51
Head: Cezary Bernatek (Equity) Piotr Bogusz (Equity)	+48 22 257 57 51 +48 22 257 57 55
Lukasz Janczak (Equity)	+48 22 257 57 54
Krzysztof Kawa, CIIA® (Equity)	+48 22 257 57 52
Jakub Szkopek (Equity)	+48 22 257 57 53
Romania Caius Rapanu (Equity)	+40 3735 10441
Editor Research CEE	T40 3/33 10441
Brett Aarons	+420 956 711 014

Treasury - Erste Bank Vienna	
Head of Group Markets Oswald Huber	+43 (0)5 0100 848901
Group Markets Retail and Agency Business	
Head: Christian Reiss Group Markets Execution	+43 (0)5 0100 84012
Head: Kurt Gerhold Retail & Sparkassen Sales	+43 (0)5 0100 84232
Head: Uwe Kolar	+43 (0)5 0100 83214
Markets Retail Sales CZ Head: Roman Choc	+420 956 765 374
Markets Retail Sales HUN Head: Peter Kishazi	+36 1 23 55 853
GM Retail Products &Business Development	+30 1 23 33 633
Head: Martin Langer Markets Retail Sales AT	+43 (0)50100 11313
Head: Markus Kaller	+43 (0)5 0100 84239
Corporate Treasury Product Distribution AT Head: Martina Kranzl-Carvell	+43 (0)5 0100 84147
Fixed Income Institutional Sales Group Securities Markets	
Head: Thomas Einramhof Institutional Distribution Core	+43 (0)5 0100 84432
Head: Jürgen Niemeier	+49 (0)30 8105800
Institutional Distribution DACH+	5503
Head: Marc Friebertshäuser	+49 (0)711 810400 5540
Bernd Bollhof	+49 (0)30 8105800 5525
Andreas Goll Mathias Gindele	+49 (0)711 810400 5561 +49 (0)711 810400 5562
Ulrich Inhofner	+43 (0)50100 85544
Sven Kienzle Rene Klasen	+49 (0)711 810400 5541 +49 (0)30 8105800 5521
Christopher Lampe-Traupe	+49 (0)30 8105800 5523
Danijel Popovic	+49 1704144713
Michael Schmotz Christoph Ungerböck	+43 (0)5 0100 85542 +43 (0)5 0100 85558
Klaus Vosseler Slovakia	+49 (0)711 810400 5560
Sarlota Sipulova	+421 2 4862 5619
Monika Smelikova Institutional Distribution CEE & Insti AM CZ	+421 2 4862 5629
Head: Antun Burić Jaromir Malak	+385 (0)7237 2439
Czech Republic	+43 (0)50100 84254
Head: Ondrej Cech Milan Bartos	+420 2 2499 5577 +420 2 2499 5562
Jan Porvich	+420 2 2499 5566
Institutional Asset Management Czech Republic Head: Petr Holecek	+420 956 765 453
Petra Maderova Martin Perina	+420 956 765 178 +420 956 765 106
Petr Valenta	+420 956 765 140
Blanka Weinerova David Petracek	+420 956 765 317 +420 956 765 809
Croatia Head: Antun Buric	+385 (0)72 37 2439
Hungary	, ,
Head: Peter Csizmadia Romania and Bulgaria	+361 237 8211
Head: Cristian Vasile Pascu Group Fixed Income Securities Markets	+40 373 511 695
Head: Goran Hoblaj	43 (0)50100 84403
Fixed Income Flow Sales Margit Hraschek	+43 (0)5 0100 84117
Christian Kienesberger Ciprian Mitu	+43 (0) 5 0100 84323 +43 (0)50100 85612
Bernd Thaler	+43 (0) 5 0100 84119
Zsuzsanna Toth Fixed Income Flow Trading	+36 1 237 8209
Head: Goran Hoblaj Group Fixed Income Securities Trading	+43 (0)5 0100 84403
Head: Goran Hoblaj	43 (0)50100 84403
Group Equity Trading & Structuring Head: Ronald Nemec	+43 (0)50100 83011
Business Support	
Bettina Mahoric	+43 (0)50100 86441







Disclaimer

This investment research (the "Document") has been prepared by Erste Group Bank AG or any of its consolidated subsidiaries (together with consolidated subsidiaries "Erste Group") independently and objectively for the purpose of providing additional economical information about the analyzed company or companies. The Document is based on reasonable knowledge of Erste Group's analyst in charge of producing the Document as of the date thereof and may be amended from time to time. It only serves for the purpose of providing non-binding information and does not constitute investment advice or marketing communication. This Document does not constitute or form part of, and should not be construed as, an offer, recommendation or invitation to subscribe for or purchase any financial or connected financial instrument, and neither this Document 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 financial or connected financial instrument in a trading strategy. The document is also not a prospectus in the sense of the Regulation (EU) 2017/1129, Austrian Capital Market Act 2019 or comparable legal provisions. All information, analysis and conclusions provided herein are of general nature. This Document does not purport to provide a comprehensive overview about any investment, the potential risks and results nor does this Document take into account any individual needs of an investor (the "Investor") in relation to proceeds, tax aspects, risk awareness and appropriateness of the financial instrument or connected financial instruments. Therefore, this Document does not replace any investor- and investment-related evaluation nor any comprehensive risk disclosure; any financial instrument has a different risk level. Performance charts and example calculations do not provide any indication for future performance of a financial instrument resp. connected financial instruments. Information about past performance does not necessarily guarantee a positive development in the future and investments in financial instruments incl. connected financial instruments can be of risk and speculative nature. All projections, forecasts and price targets are clearly and prominently labelled as such, and the material assumptions made in producing or using them are indicated. Forecasts of future developments are based purely on estimates and assumptions. Actual future developments may differ from the forecast. Forecasts are therefore not a reliable indicator of future results and developments. The weaker the Company's credit-worthiness is, the higher the risk of an investment will be. Not every investment is suitable for every investor. Neither this document nor any of its components form the basis of any contract or commitment whatsoever. Therefore, Investors shall consult their advisors (in particular legal and tax advisors) prior to taking any investment decision to ensure that - irrespective of information provided herein - an intended transaction of a financial or connected financial instrument is appropriate for the Investor's needs and intention, that the Investor has understood all risks and that, after due examination, the Investor has concluded to make the investment and is in a position to bear the economical outcome of such investment. Investors are referred, for instance, to the suitability test according to the Austrian Securities Act 2018 and are advised to mind the client information pursuant to the Austrian Securities Supervision Act 2018. The performance of an investment is reduced by commissions, fees and other charges that depend on the individual circumstances of the investor. As a result of currency fluctuations, the investment result may increase or decrease. Investment research is produced by Erste Group Research within the framework provided by applicable laws. The opinions featured in the equity and credit research reports may vary. Investors in equities may pursue different interests compared to those of investors on the credit side, related to the same issuer. The analyst has no authority whatsoever to make any representation or warranty on behalf of the analyzed company resp. issuer, Erste Group, one of its companies, or any other person. Care is taken, that all substantially material sources of information are clearly and prominently indicated. 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 Document. Neither Erste Group nor any of its respective managing directors, supervisory board members, executive board members, directors, officers or 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 Document. Erste Group as well as representatives and employees principally may, to the extent permitted by law, have a position in stated financial instruments resp. connected financial instruments and may provide trading support or otherwise engage in transactions involving these financial instruments and/or connected financial instruments. Further, Erste Group as well as representatives and employees may principally offer investment services to, or may take over management function in a company or issuer referred to in this Document. This Document has been produced in line with Austrian law and for the territory of Austria. Forwarding this Document as well as marketing of financial instruments resp. connected financial instruments described herein are restricted or interdicted in certain jurisdictions. This, inter alia, applies to the United States, Canada, Australia, Switzerland, Korea and Japan. In particular, neither this Document nor any copy hereof may be taken or transmitted or distributed, directly or indirectly, into the United States or to US Persons (as defined in the U.S. Securities Act of 1933, as amended) unless applicable laws of the United States or certain federal states of the United States provide for applicable exemptions. Any failure to comply with these restrictions may constitute a violation of the laws of any such other jurisdiction. Persons receiving possession of this Document are obliged to inform themselves about any such restrictions and to adhere to them. By accepting this Document, the recipient agrees to be bound by the foregoing limitations and to adhere to applicable regulations. The document may not be reproduced or redistributed to other persons without the consent of Erste Group. Further information may be provided by Erste Group upon request. This Document and information, analysis, comments and conclusions provided herein are copyrighted material. Erste Group reserves the right to amend any opinion and information provided herein at any time and without prior notice. Erste Group further reserves the right not to update any information provided herein or to cease updates at all. Misprints and printing errors reserved.

Erste Group is not registered or certified as a credit agency in accordance with Regulation (EC) No 1060/2009 of the European Parliament and of the Council of 16 September 2009 on credit rating agencies (the Credit Rating Agencies Regulation). Any assessment of the issuers creditworthiness does not represent a credit rating pursuant to the Credit Rating Agencies Regulation. Interpretations and analysis of the current or future development of credit ratings are based upon existing credit rating documents only and shall not be considered as a credit rating itself. If one of the clauses provided for in this disclaimer is found to be illicit, inapplicable or not enforceable, the clause has to be treated separately from other clauses provided for in this disclaimer to the largest extent possible. In any case, the illicit, inapplicable or not enforceable clause shall not affect the licitness, applicability or enforceability of any other clauses.



Erste Group Research Disclaimer 13.09.2024

Page 11/12

Important disclosures

THIS DOCUMENT MAY NOT BE BROUGHT INTO THE UNITED STATES OF AMERICA, CANADA, SWITZERLAND, AUSTRALIA, KOREA OR JAPAN, TO ANY PERSON WHO IS A CITIZEN OF THOSE STATES. OR SENT OR DISTRIBUTED TO ANY MEDIA IN ANY OF THOSE STATES.

General disclosures

All recommendations given by Erste Group Research are independent, objective and are based on the latest company, industry and other general information publicly available which Erste Group Research considers being reliable; however, Erste Group does not represent or assume any liability for the completeness of accuracy of such information or its recommendation. The best possible care and integrity is used to avoid errors and/or misstatements. No influence on the rating and/or target price is being exerted by either the covered company or other internal departments of Erste Group. Each research drawn up by an analyst is reviewed by a senior research executive or agreed with a senior analyst/deputy (4-eyes-principle). Erste Group has implemented thorough Compliance Rules on personal account dealings of analysts (please see "Conflicts of Interest"). Analysts are not allowed to involve themselves in any paid activities with the covered companies except as disclosed otherwise. No part of their compensation was, is, or will be directly or indirectly related to the specific recommendation(s) or views expressed by them contained in this document. Erste Group may engage in transactions with financial instruments, on a proprietary basis or otherwise, in a manner inconsistent with the view taken in this research report. In addition, others within Erste Group, including strategists and sales staff, may take a view that is inconsistent with that taken in this research report.

Conflicts of interest

Erste Group Bank AG ensures with internal policies that conflicts of interest are managed in a fair and reasonable manner. The policy "Managing Conflict of Interest in connection with Investment Research" is provided under the following

https://www.erstegroup.com/content/dam/at/eh/www_erstegroup_com/en/research/documents/legal/Managing_Conflicts_of_Interest___Umgang_mit_IK.pdf.

Disclosures of potential conflicts of interest relating to Erste Group Bank AG and affiliated companies as well as relevant employees and representatives with respect to the issuer(s) resp. financial instruments are updated daily. An overview of conflicts of interest for all analysed companies by Erste Group Research is provided under the following link: Disclosure | Erste Group Bank AG.

The distribution of all recommendations and the distribution of recommendations in relation to which investment services have been provided is available under the following

link:

https://www.erstegroup.com/content/dam/at/eh/www_erstegroup_com/en/research/documents/legal/Recommendations_Distribution.pdf.

A history of all recommendations within the last 12 months is provided under the following link: Research Disclaimer | Erste Group Bank AG.

Valuation and methodology

Detailed information about the valuation and methodology of investment research by the Erste Group Bank AG is provided under the following link:

https://www.erstegroup.com/content/dam/at/eh/www_erstegroup_com/en/research/documents/legal/Bewertungsmethoden_and_Valuations.pdf.

All market prices within this publication are closing prices of the previous trading day (unless otherwise mentioned within the publication).

Planned frequency of updates for recommendations

Target prices or recommendations for financial instruments are meant to be 12 month target prices or equivalent recommendations (except if other validity period is stipulated) starting from the date of the publication. Target prices and recommendations are reviewed usually upon release of quarterly reports, or whenever circumstances require (e.g. company updates, ad-hoc publications, etc.).

Periodical publications are identified by their respective product name and indicate update frequency as such (e.g. Quarterly). Recommendations mentioned within these publications are updated in an according frequency, unless otherwise mentioned (e.g. target price or recommendation is not updated on a monthly base, even when mentioned in summarizing monthly/quarterly product).

If a recommendation change has been made in this publication, please see the following link for a detailed overview of the previous recommendation(s): https://www.erstegroup.com/en/research-legal.

Links

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. Erste Group does not accept responsibility whatsoever for any such material, including in particular the completeness and accuracy, nor for any consequences of its use.



Erste Group Research Disclaimer 13.09.2024

Page 12/12

Additional notes to readers in the following countries

Austria: Erste Group Bank AG is registered in the Commercial Register at Commercial Court Vienna under the number FN 33209m. Erste Group Bank AG is authorized and regulated by the European Central Bank (ECB) (Sonnemannstraße 22, D-60314 Frankfurt am Main, Germany) and by the Austrian Financial Market Authority (FMA) (Otto-Wagner Platz 5, A-1090, Vienna, Austria).

Germany: Erste Group Bank AG is authorised for the conduct of investment business in Germany by the Austrian Financial Market Authority (FMA) and subject to limited regulation by the Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin).

United Kingdom (UK): Erste Group Bank AG is regulated for the conduct of investment business in the UK by the Financial Conduct Authority and the Prudential Regulation Authority. This document is directed exclusively to eligible counterparties and professional clients. It is not directed to retail clients. No persons other than an eligible counterparty or a professional client should read or rely on any information in this document. Erste Group Bank AG does not deal for or advise or otherwise offer any investment services to retail clients.

Czech Republic: Česká spořitelna, a.s. is regulated for the conduct of investment activities in Czech Republic by the Czech National Bank (CNB). Croatia: Erste Bank Croatia is regulated for the conduct of investment activities in Croatia by the Croatian Financial Services Supervisory Agency (HANFA).

Hungary: Erste Bank Hungary ZRT. and Erste Investment Hungary Ltd. are regulated for the conduct of investment activities in Hungary by the Hungarian Financial Supervisory Authority (PSZAF).

Serbia: Erste Group Bank AG is regulated for the conduct of investment activities in Serbia by the Securities Commission of the Republic of Serbia (SCRS).

Romania: Banka Comerciala Romana is regulated for the conduct of investment activities in Romania by the Romanian National Securities Commission (CNVM).

Poland: Erste Securities Polska S.A. is regulated for the conduct of investment activities in Poland by the Polish Financial Supervision Authority

Slovakia: Slovenská sporiteľňa, a.s. is regulated for the conduct of investment activities in Slovakia by the National Bank of Slovakia (NBS). **Switzerland**: This research report does not constitute a prospectus or similar communication in connection with an offering or listing of securities as defined in Articles 652a, 752 and 1156 of the Swiss Code of Obligation and the listing rules of the SWX Swiss Exchange.

Hong Kong: This document may only be received in Hong Kong by 'professional investors' within the meaning of Schedule 1 of the Securities and Futures Ordinance (Cap.571) of Hong Kong and any rules made there under.

© Erste Group Bank AG 2024. 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: <u>www.erstegroup.com</u>