The economy amidst icebergs

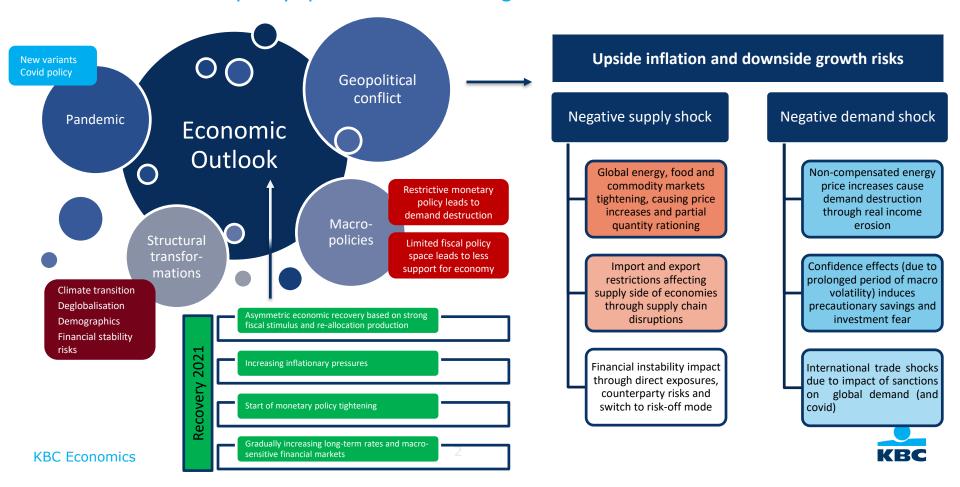




1 December 2022

An era of elevated macroeconomic and policy uncertainty

It's complicated! - Russian war impact compounds with ongoing crises against a backdrop of more limited macro policy space and structural growth risks



Scenarios for the European economy

	5%	60%	35%
Definitions	'Ceasefire' scenario	'Mild recession' scenario	'Deep recession' scenario
Approach	This scenario distinction, from a European perspective, is mainly based on There is an interaction with, and amplification of, the late-pandemic econo	the possible further evolution of the Russian-Ukrainian war. mic dynamics (the war started in a late-cyclical phase of the global business cy	cle). Other risks may be important drivers in other major econolmes
Military and political evolution	 Near-term sustainable military ceasefire based on a political compromise 	 Duration of conflict: at least several more quarters Scope: geographically contained No direct military confrontation between Russia and NATO Eventual outcome: 'frozen conflict' or fragile cease fire. Segregation of the global economy between the West and a Russian bloc (possibly including China) 	 Escalation of the war, triggered by even more extreme military activity, triggering additional and more far-reaching Western sanctions An escalation of the war beyond the territory of Ukraine, which could trigger a direct involvement of NATO (and possibly China), is considered a tail risk (World War III ?)
Economic impact	 High energy, general commodities and food prices, would decrease from current levels, taking some pressure off current very strong headline inflation pressure. The euro area economy would relatively quickly resume its late-pandemic dynamics (growth and inflation) from before the outbreak of the war. Compared to the growth path in the base scenario, the optimistic scenario assumes an impact on the 'slope' of the recovery path, but virtually none on the 'intercept'. In other words, there is less scarring of the economy compared to the base and the pessimistic scenario. 	 Sustained negative supply shock (price shock of energy, general commodities and food). Critical energy deficits with rationing and/or sectoral shutdowns can be avoided in the coming winter (2022-23), as well as in the winters of the years ahead. Negative impact on consumer and producer sentiment Markedly lower real GDP growth. The main part of this growth impact occurs in 2022, with spill-overs and scarring into 2023-2024. Higher headline inflation, but also core inflation as spill-overs into inflation expectations and wage formation occur Permanently higher levels of short and long term interest rates 	 Even more unprecedented energy, commodity and food price shock, leading to very high inflation rates and energy/commodity rationing and some sectoral shutdowns. Dramatic decrease of consumer and producer sentiment Negative real GDP growth, in combination with high inflation (i.e. stagflation). Compared to the growth path in the base scenario, the pessimistic scenario assumes both an impact on the 'intercept' (additional shock) and the 'slope' (impact on recovery pace). The scarring of the economy in subsequent years will be significantly higher than in the base scenario.
Economic policy reaction	 Near-term easing of (some) economic/political Western sanctions Some structural policy 'lessons learned' would however be permanent: more prominent and less constrained role for fiscal policy to provide perceived 'public goods' (accelerated green (energy) transition and energy autonomy, military capacity) The ECB can afford to tighten their monetary policy stance faster and more pronounced than in the base scenario, given the more favourable growth environment 	 Extended Western trade, financial and political sanctions against Russia These sanctions remain in place during the whole forecast horizon, possibly with a gradual easing However, 'self-sanctioning' behaviour of Western firms continues Expansionary Western fiscal policy response (military spending, green transition, looser EU fiscal budget rule framework, extension and permanent EU fiscal and bond issuing capacity) Normalising monetary policy continues 	 Russia retaliates by banning parts or all exports to the EU (energy, commodity and food) Virtually unconstrained government spending ('whatever it takes') on defence and 'strategic autonomy' will to some extent cushion the negative impact on real GDP growth An extension of the 'escape clause' relating to EU fiscal budget rules is possible ECB monetary policy will tighten more slowly and to a lower peak-cycle rate than in the base scenario in order to avoid unwarranted monetary fragmentation within the euro area. Given these financial stability considerations, inflation targeting is no longer the top policy priority for the ECB.
Recovery pattern	 Resumption of late-pandemic business cycle path with real GDP growth GDP declining towards its potential rate 	 Acceleration of late-pandemic slowdown already in place at the outbreak of the war (slowing growth below potential growth rates, higher inflation, tightening monetary policy) 	 Very sharp stagflationary drop in economic activity (negative real GDP growth), followed by a partial and incomplete government expenditure-led stabilisation and recovery (i.e. severe medium term scarring of the economy)

'Mild recession' scenario for the European economy

60%

Definitions	'Mild recession' scenario
Military and political evolution	 Duration of conflict: at least several more quarters No direct military confrontation between Russia and NATO Eventual outcome: 'frozen conflict' or fragile cease fire. Segregation of the global economy between the West and a Russian bloc (possibly including China)
Economic impact	 Sustained negative supply shock (price shock of energy, general commodities and food). Critical energy deficits with shutdowns can be avoided in the coming winter (2022-23). Negative impact on consumer and producer sentiment Markedly lower real GDP growth. The main part of this growth impact occurs in 2022. Higher headline inflation, but also core inflation as spill-overs into inflation expectations and wage formation occur Permanently higher levels of short and long term interest rates
Economic policy reaction	 Extended Western trade, financial and political sanctions against Russia Expansionary Western fiscal policy response (military spending, green transition, looser EU fiscal budget rule framework, extension and permanent EU fiscal and bond issuing capacity) Normalising monetary policy continues





Geopolitical conflict continues to dominate macroeconomic outlook



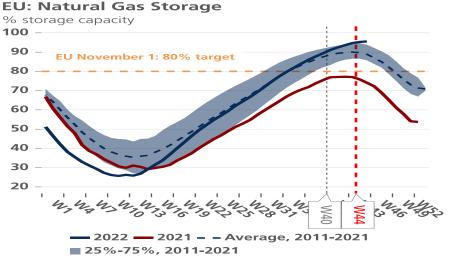
European economies have been able to refill gas stocks but structural measures will be necessary to re-fill gas reserves in the next year(s). Dr. Fatih Birol/IEA

Natural gas - inventories and consumption current inventory over winter consumption # days 300 Figures denote the # of days of high gas consumption covered by current gas inventories. High gas consumption is defined as the mean daily consumption levels during winter 250 2019/20. 200 150 -100 50 0 SK HU CZ FR DE IT BG PL BE

Source: KBC Economics based on Gas Infrastructure Europe (GIE), Eurostat

Protracted military conflict, assessment of NATO

Substitution of Russian gas by other energy sources e.g. coal, nuclear, LNG, renewable, hydropower; from 45% through 15% to 0.



Source: KBC Economics based on Gas Infrastructure Europe (GIE)

Reduction of gas consumption in households and industry – regulation and price effects

Integrated European gas markets requires eliminating existing regulatory and physical bottlenecks

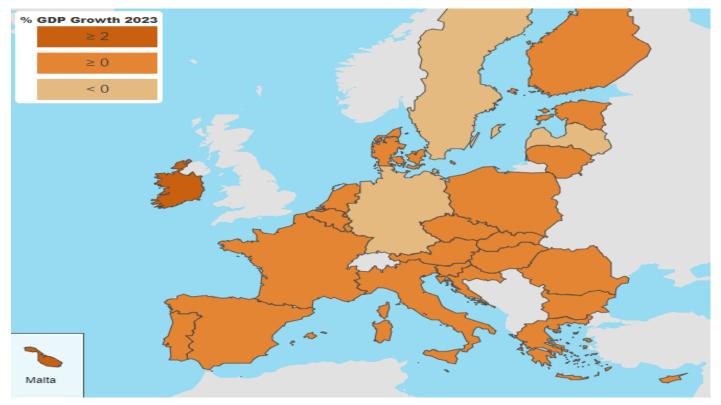






Macroeconomic outlook – subject to uncertainty and high risk

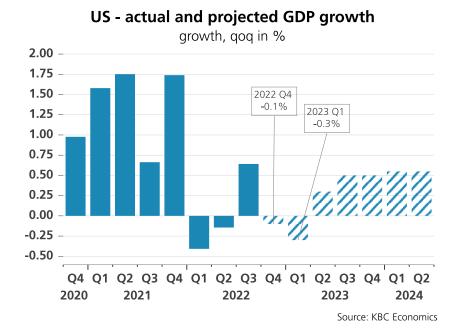
A crisis with major growth and inflation impact – European Commission Autumn projections pencil in a broad-based slowdown (with technical recessions)

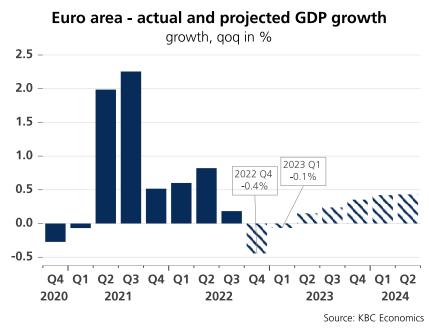




Macroeconomic outlook – subject to uncertainty and high risk

A crisis with major growth and inflation impact, especially in energy-dependent European economies – growth headed for transitory stagnation and mild recession







Macroeconomic outlook – subject to uncertainty and high risk

A crisis with major growth and inflation impact, especially in energy-dependent European economies – growth headed for transitory stagnation and mild recession

KBC Economics - u	ıpdate	2022 N	ovemb	er			
GDP growth (in %)	2019	2020	2021	2022	2023	2024	2025
Euro area	1,6	-6,3	5,3	3,2	0,2	1,5	1,4
US	2,3	-2,8	5,9	1,8	0,5	2,1	2,1
China	6,0	2,3	8,1	3,2	4,5	4,7	4,3
UK	1,6	-11,0	7,5	4,1	-0,3	1,5	1,7

Source: KBC Economics

KBC Economics - update 2022 November

KBC Economics

GDP growth (in %)	2019	2020	2021	2022	2023	2024	2025
Euro area	1,6	-6,3	5,3	3,2	0,2	1,5	1,4
Belgium	2,2	-5,4	6,1	2,9	0,2	1,4	1,2
Bulgaria	3,9	-4,0	7,1	2,8	0,7	3,5	3
Czech Republic	3,0	-5,5	3,5	2,5	0,8	2,7	2,6
Hungary	4,9	-4,8	7,1	5,5	0,0	3,6	3,6
Slovakia	2,5	-3,4	3,0	1,4	0,6	2,8	3,5
C Economics			10		Sou	rce: KBC E	conomics



Macroeconomic outlook – subject to uncertainty and high risk

A crisis with major growth impact – KBC projections versus other forecasts

KBC EC IMF Consensus 2022 2022 2022 2023 2024 2023 2022 2023 3.2 1.5 3.1 Euro Area 0.2 0.5 3.0 3.2 0.0 United States 1.8 0.5 2.1 1.6 1.0 1.7 0.2 1.8 Belgium 2.9 0.2 1.4 2.4 0.4 2.4 0.8 2.8 Czech Republic 2.5 2.5 0.8 2.7 1.9 1.5 2.4 0.4 Slovakia 1.4 0.6 2.8 1.8 1.5 1.7 1.1 1.9 5.5 5.7 1.8 4.9 5.5 0.0 3.6 0.1 Hungary **Bulgaria** 2.8 0.7 3.5 3.9 2.9 3.1 3.0 1.6

Annual GDP forecasts GEM (periode average in %)

Last release IMF: 11/10/2022

Source: KBC Economics based on IMF WEO, Consensus Economics October 2022 and own forecasts



2023

0.3

0.7

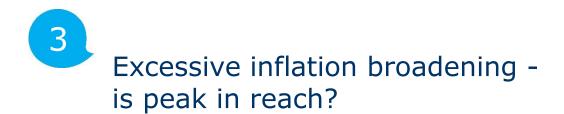
0.2

0.1

0.5

0.1

1.1



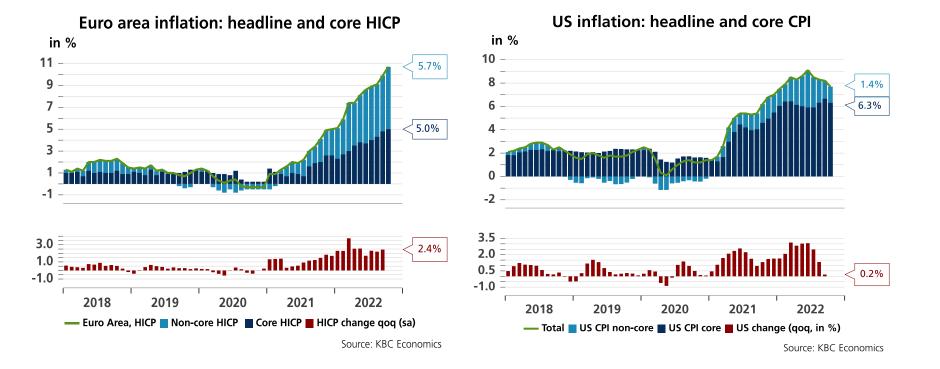


INFLATION

KBC Economics

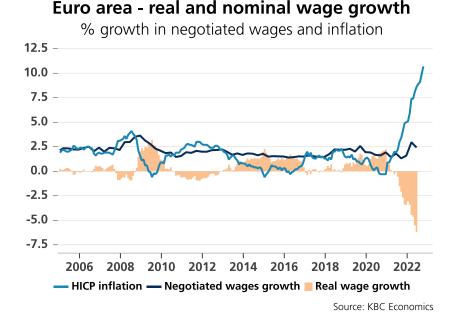
Macroeconomic outlook – inflation broadens and remains high

Is a peak close? - EA inflation broadens and strengthens while US (core) inflation remains high despite recent deceleration

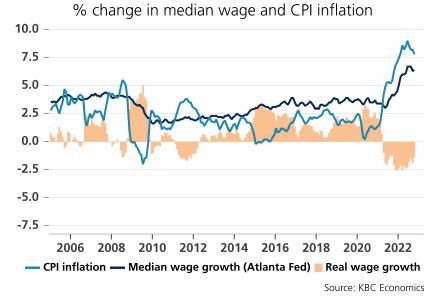




Macroeconomic outlook – inflation broadens and remains elevated Is a peak close? – and strong wage price spirals did not (yet?) take of in Europe despite tight labour markets



United States - real and nominal wage growth





Macroeconomic outlook – subject to uncertainty and high risk A crisis with major inflation impact – KBC projections versus other forecasts

Annual GDP forecasts Inflation (periode average in %)

	KBC			IMF		Consensus		EC	
	2022	2023	2024	2022	2023	2022	2023	2022	2023
Euro Area	8.5	6.1	1.8 -	8.3	5.7	8.3	5.8	8.5	6.1
United States	8.1	4.0	2.2	8.1	3.5	8.0	3.9	7.9	3.4
Belgium	10.9	6.2	2.3	9.5	4.9	9.4	5.2	10.4	6.2
Czech Republic	14.5	7.5	3.0	16.3	8.6	15.6	8.7	15.6	9.5
Slovakia	11.5	13.0	3.0	11.9	10.1	12.0	8.9	11.8	13.9
Hungary	14.0	14.3	4.5	13.9	13.3	13.8	13.6	14.8	15.7
Bulgaria	13.5	10.5	3.5	12.4	5.2	14.3	8.2	12.8	7.4

Last release IMF: 11/10/2022

Source: KBC Economics based on IMF WEO, Consensus Economics October 2022 and own forecasts





Macro policy at the crossroads – the end of the Divine Coincidence

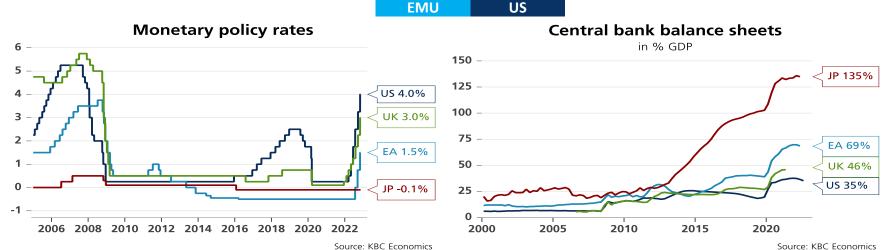
"We will *keep at it* until we are confident the job is done" Fed Powell, Jackson Hole 26 August 2022

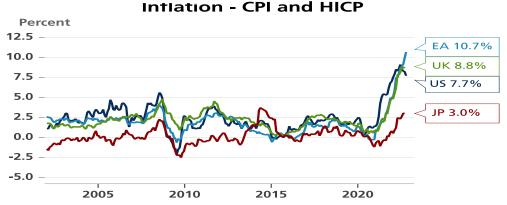


Macrofinancial outlook – central banks at a crossroads

KBC Economics

Central banks tighten monetary policy and face very different challenges as policy trade-offs appear in different guises **JAPAN** UK



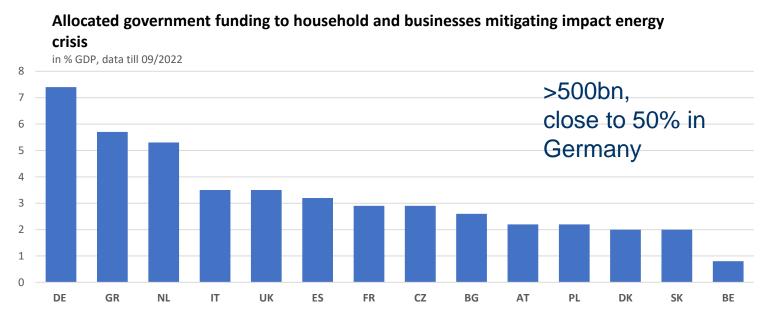




Source: KBC Economics based on IMF, BLS

Macrofinancial outlook – fiscal support and savings buffers

Macro-policy 'space' has narrowed substantially – with monetary policy fighting inflation, the crux of macro support falls on fiscal policy (and existing saving buffers)



Allocated support measures till 09/2022

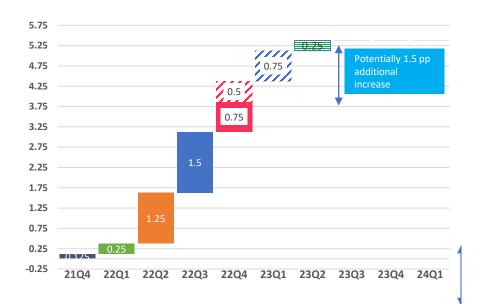
Additional measures



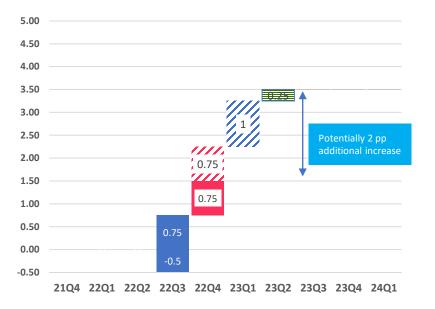
Macrofinancial outlook – central banks at a crossroads

Central banks tighten monetary policy – Fed and ECB policy rates to peak in 2023 H1, with the Fed in restrictive territory and the ECB moving above neutral TITRO III

TLTRO III > 2trn EUR



Projected FED policy rate hikes (in %)



Projected ECB policy rate hikes (in %)

"None of the post-war expansions died of old age. They were all murdered by the Fed."

Rudi Dornbusch, famous MIT

economist



Macrofinancial outlook – central banks at a crossroads

Central banks tighten monetary policy – inflation scares make central banks across the world to tighten monetary policy at unprecedented pace

		Chand	ges sinc	e 01/0	5/2021	, in %	
	-2,5	0,0	2,5			10,0	12,5
Hungary							
Brazil							
Czech Republic							
Poland							
Mexico							
Romania							
United States							
Canada							
New Zealand							
United Kingdom							
Australia							
Israel							
Norway							
South Korea							
Euro area							
India							
Denmark							
Indonesia							
Sweden							
Switzerland							
Bulgaria							
Japan							
China							





Lessons so far



CEE countries – some heads-up for BG

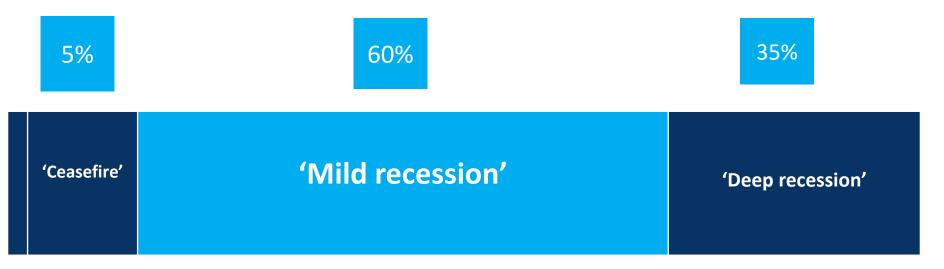
Country	Policy ra	ite(%)		Inflation(%)	
	2022	2023	2024	2022	2023	2024
Czech Rep	7.0	5.8	3.5	14.5	7.5	3.0
Hungary	13.0	8.3	6.3	14.0	14.3	4.5
Slovakia	2.25	3.5	3.5	11.5	13.0	3.0

- New loans contraction
- High pass-through rates
- FX Reserves under pressure
- Higher borrowing cost
- Increasing NPL

- CZ, HU, slowdown in SK
- CZ, HU, partially in SK
- CZ, HU
- CZ, HU, light increase in SK
- first indications in HU



Scenarios for the European economy



"If trivial pursuit were designed by economists, it would have 100 questions and 3,000 answers"

Ronald Reagan



Thank You



Executive summary - macroeconomic and financial outlook December 2022

- Economic and geopolitical uncertainty and risks remain extraordinarily high against backdrop of an ongoing Russian invasion, an intensifying US-China stand-off, unprecedented monetary policy tightening and structural risks.
- The global economy is headed for a significant slowdown of growth with many major economies moving into technical recessions. Given the build-up of substantial gas reserves, the European economies are expected to 'get through winter', staving off protracted and critical energy shortages.
- Risks to the growth outlook remain tilted to the downside. Excessive monetary policy tightening (US), a broadening real estate crisis and Covid-policies (CN) and problems to refill gas stocks during 2023/2024 (EU) form major risks.
- Near-term inflation remains excessively high, while the peak of inflation may be in reach as monetary policy starts to bite. We expect global inflation to decelerate during 2023, although in many countries such deceleration may be very gradual.
- Monetary policy is entering a new phase. Early-moving CEE central banks are pausing or outright halting the tightening cycle, while major central banks announced a slowing of tightening pace. We expect Fed and ECB to move policy rates gradually above neutral before stabilizing during 2023 at 5.375% and 3.5%, respectively.
- Risk to financial stability increase primarily in terms of liquidity and credit quality.

Country forecasts

					Mild rec	ession	
		2020	2021	2022	2023	2024	2025
Czech	Annual GDP Growth	-5,5	3,5	2,5	0,8	2,7	2,6
Republic		-(5,5)	(3,5)	(2,1)	(0,8)	(3,0)	(2,6)
	Annual Headline HICP	3,2	3,6	14,5	7,5	3,0	2,1
	Inflation	(3,2)	(3,6)	(13,9)	(7,0)	(2,7)	(2,1)
	Unemployment rate, eop	3,1	2,1	2,8	3,3	2,9	1,9
		(3,1)	(2,1)	(2,8)	(3,3)	(2,9)	(1,9)
	Government Budget	-5,8	-5,1	-5,5	-4,5	-3,0	-3,0
	Balance, % of GDP	-(5,8)	-(5,9)	-(5,5)	-(4,5)	-(3,0)	-(3,0)
	General Government Debt,	37,7	42,0	45,1	46,9	47,5	n/a
	% of GDP	(37,6)	(42,0)	(45,1)	(46,9)	(47,5)	n/a
	Current Account Balance, %	2,0	-0,8	-4,5	-3,0	-1,5	-0,5
	of GDP	(2,0)	-(0,8)	-(4,5)	-(3,0)	-(1,5)	-(0,5)
	House prices, existing and	8,4	19,7	17,5	0,5	2,5	3,5
	new dwellings, annual %	(8,4)	(19,7)	(17,5)	(0,5)	(2,5)	(3,5)



Country forecasts

				ſ	Mild rec	ession	
		2020	2021	2022	2023	2024	2025
Hungary	Annual GDP Growth	-4,8	7,1	5,5	0,0	3,6	3,6
		-(4,8)	(7,1)	(5,5)	(0,0)	(3,6)	(3,6)
	Annual Headline HICP	3,4	5,2	14,0	14,3	4,5	3,0
	Inflation	(3,4)	(5,2)	(13,9)	(14,0)	(4,3)	(3,0)
	Unemployment rate, eop	4,3	3,7	4,1	4,4	3,8	3,3
		(4,3)	(3,7)	(4,1)	(4,4)	(3,8)	(3,3)
	Government Budget	-7,5	-7,1	-5,5	-3,8	-2,1	-3,0
	Balance, % of GDP	-(7,8)	-(6,8)	-(6,1)	-(3,8)	-(2,1)	-(3,0)
	General Government Debt,	79,3	76,8	74,7	73,9	71,3	69,9
	% of GDP	(79,6)	(76,8)	(74,7)	(73,9)	(71,3)	(69,9)
	Current Account Balance, %	-1,1	-3,6	-8,0	-4,0	-2,1	-0,2
	of GDP	-(1,1)	-(3,6)	-(8,0)	-(4,0)	-(2,1)	-(0,2)
	House prices, existing and	4,9	16,5	16,0	5,0	3,5	4,0
	new dwellings, annual %	(4,9)	(16,5)	(9,5)	(3,5)	(3,0)	(4,0)



Macrofinancial outlook – central banks focus on inflation

Central banks normalize monetary policy – with both ECB and Fed strongly frontloading interest rate hikes

menth 9/6 21/7 8/9 27/10 15/12 2/2 16/3 4/5 15/6 27/7 4/9 26/10 14/12 Date June June June June June June 0.5 0.7 Dec June Agril March Agril March Alle June J		<u> </u>	scenar																	
Date June June <th< th=""><th>brac coror is meeting</th><th>-</th><th>•</th><th></th><th>0</th><th>0</th><th></th><th>0</th><th></th><th>-</th><th>•</th><th></th><th>•</th><th>•</th><th>•</th><th></th><th>0</th><th>0</th><th></th><th>Meeting 14/12</th></th<>	brac coror is meeting	-	•		0	0		0		-	•		•	•	•		0	0		Meeting 14/12
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projected					-,	-,		-,	-	-,-	-,-		-,							
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Implied 10 yr yield Implied 10 yr yield<	projected				0,75	1	1	1,25	1,25	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	2	2,25
end volue 1,7 2 2 2 2,5 2	rate hikes				0,75	0,25	0	0,25	0	0,5	0	0	0	0	0	0	0	0	0,25	0,25
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Risk premium -0,50 -0,50 -0,30 -0,30 -0,20 0,00 0,05 0,10 0,20 0,30 0,40 0,50 0,60 0,	1 /	1.00	2.22	2.25	2.20	2.00	2.67	2.00	2.00	2.00	2.00	2.67	2.67	2.00	2.05	2.64	2.62	2.62	2.02	2.61
Proj. Yield 1,49 1,73 1,95 1,96 2,46 2,67 2,73 2,78 2,88 2,98 3,07 3,17 3,26 3,25 3,24 3,23 3,23 3,22 3,21 Image: Constraint of the state of the stat		-					,		i (1		,	
FRA-SOFR Ix4 2x5 3x6 4x7 5x8 6x9 7x10 8x11 9x12 10x13 11x14 12x15 13x16 14x17 15x18 16x19 17x20 18x21 19x22 Market #N/A Stal #N/A S	•																		,	
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Market #N/A Stal	FRA-SOFR																			
Projected 2,416667 2,75 3,083333 3,333333 3,416667 3,5 3,5 3,5 3,5 3,5 3,5 3,5 3,5 3,5 3,5	FRA_SOFR	1x4	2x5	3x6	4x7	5x8	6x9	7x10	8x11	9x12	10x13	11x14	12x15	13x16	14x17	15x18	16x19	17x20	18x21	19x22
	Market	#N/A Stal	e#N/A Stal	#N/A Stal	#N/A Stal	#N/A Stale	#N/A Stale	#N/A Stal	#N/A Stal	e#N/A Stal	#VALUE!	#VALUE!	#N/A Stal	#VALUE!	#VALUE!	#N/A Stal	#VALUE!	#VALUE!	#N/A Stal	e #VALUE!
	Projected	2,416667	2,75	3,083333	3,333333	3,416667	3,5	3,5			3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	5 3,5

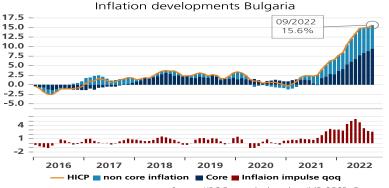
Macrofinancial outlook – central banks focus on inflation

Central banks normalize monetary policy – with both ECB and Fed strongly frontloading interest rate hikes

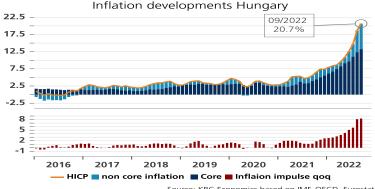
	Meeting 14/6	Meeting 26/7		Meeting 20/9		Meeting 1/11	Meeting 13/12	Meeting 31/1		Meeting 21/3		-	Meeting 13/6	Meeting 25/7		Meeting 19/9	Meeting 31/10		Meeting 12/12
	1,0	20,7		20,5		-/	10, 11	01/1		22,0		2,0	10,0	20,7		20,0	01/10		,
	2022							2023											
Date	June	July	August	Sept.	Oct.	Nov.	Dec.	Jan	Feb	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Policy rate	1,375	2,125	2,125					l											
-		2,125	2,125					1											
Actual	1,375 1,375	2,125	2,125	3,125	3,125	3,875	4,375	l 4,875	4,875	5,125	5,125	5,375	5,375	5,375	5,375	5,375	5,125	5,125	4,875
proj. Rate hike	1,575	2,125	2,125	0,75	0	0,75	4,373	4,875	4,873	0,25	0	0,25	0	0	0	0	-0,25	0	-0,25
policy rate adverse				0,75	Ŭ	0,75	0,5	0,5	Ŭ	0,23		0,23	0	•	Ŭ	Ŭ	0,23	Ū	0,23
actual																			
projected																			
rate hikes																			
mplied 10 yr yield																			
end value	4	4	4	4	4	4	4	4	4	4	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
Time	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13
	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
mplied yield																			
Exp. Comp	4,07	4,09	4,10	4,12	4,13	4,13	4,14	4,13	4,13	4,12	3,70	3,68	3,67	3,65	3,64	3,62	3,60	3,59	3,58
Risk premium	-0,50	-0,50	-0,30	-0,30	-0,20	0,30	0,40	0,60	0,60	0,70	0,70	0,70	0,70	0,70	0,70	0,50	0,50	0,50	0,50
Proj. Yield	3,57	3,59	3,80	3,82	3,93	4,43	4,54	4,73	4,73	4,82	4,40	4,38	4,37	4,35	4,34	4,12	4,10	4,09	4,08
FRA-SOFR																			
	1x4	2x5	3x6	4x7	5x8	6x9	7x10	8x11	9x12	10x13	11x14	12x15	13x16	14x17	15x18	16x19	17x20	18x21	19x22
 Market	#N/A Stale	#N/A Stale	#N/A Stal	#N/A Stale	#N/A Stale	e#N/A Stale	#N/A Stale	#N/A Stale	#N/A Stale	#VALUE!	#VALUE!	#N/A Stale	#VALUE!	#VALUE!	#N/A Stale	#VALUE!	#VALUE!	#N/A Stale	2
Projected		4,958333					5,375	5,375		5,208333						-	4,208333		1



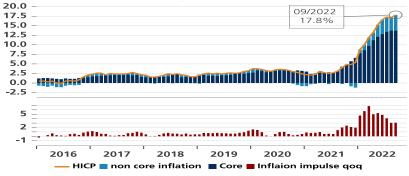
Macroeconomic outlook – inflation broadens and remains high Is a peak close? – home markets inflation pressures remain high with core inflation as an important driver, especially in CEE markets







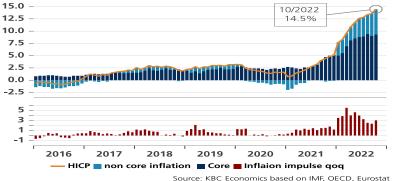
Source: KBC Economics based on IMF, OECD, Eurostat



Inflation developments Czech Republic

Source: KBC Economics based on IMF, OECD, Eurostat

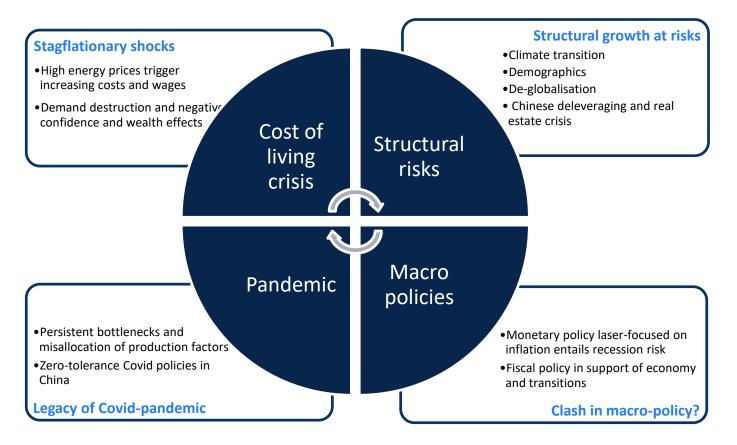
Inflation developments Slovakia



KBC Economics

An era of elevated macroeconomic and political uncertainty

Global economy faces comprehensive macro-financial stress test – with uncertain outcome





KBC Economics

Geopolitical conflict continues to dominate macroeconomic outlook

European economies have been able to refill gas stocks against an increased LNG supplies and lower gas demand from Asian economies

Will European economies get through winter? - European economies refill(ed) gas reserves at record speed but the typical moment of net *use* of gas reserves (November) is approaching fast

