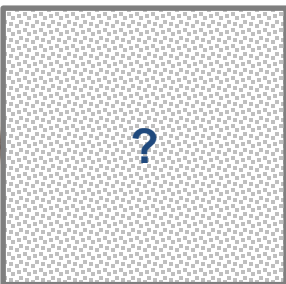

Crisis and reality

Csaba Bálint, CFA
Member of the Board

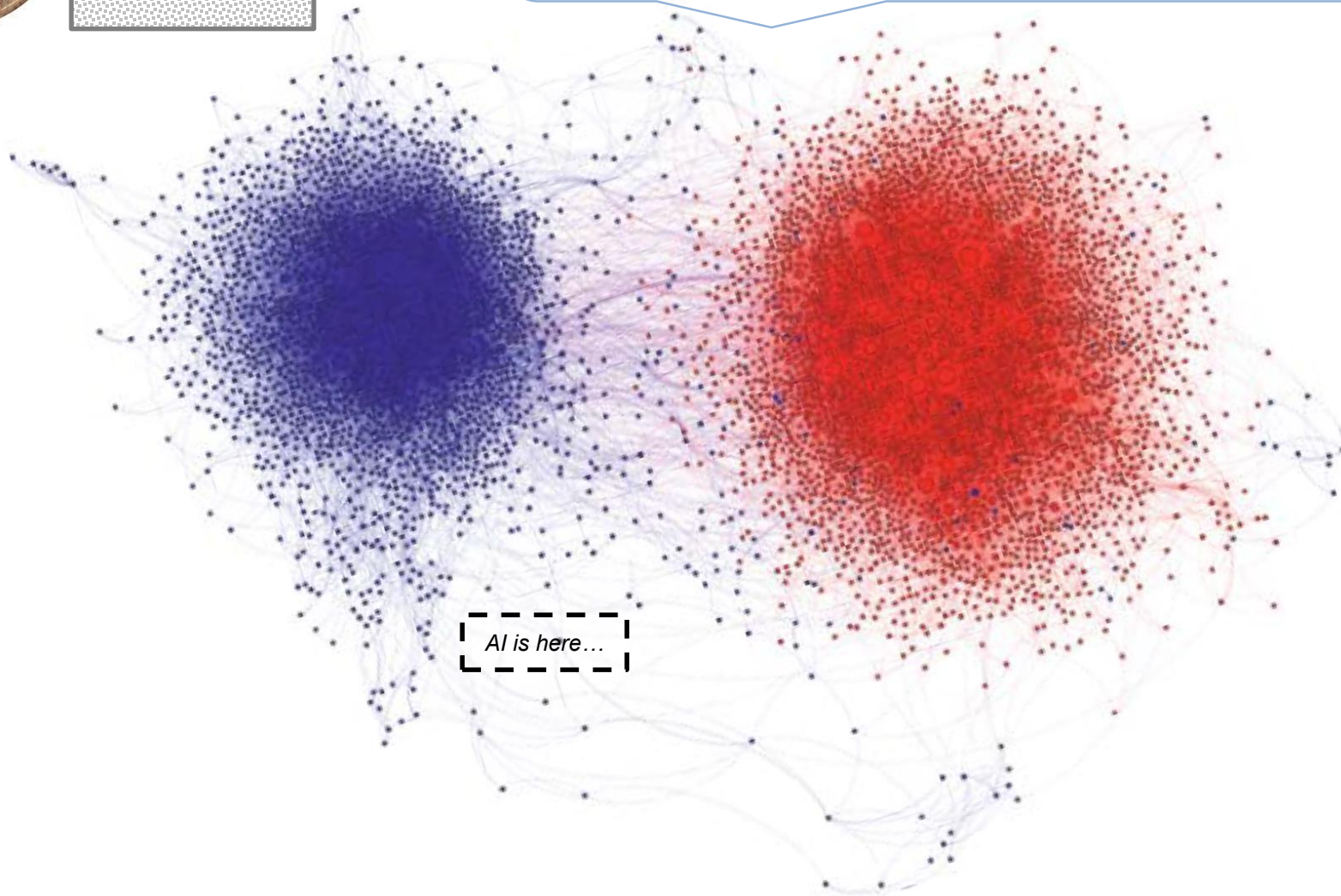
September 27-28, 2023



Can you tell what is on the other side of the 50 bani coin?...

Despite the fact that this coin is used on a daily basis, only a rather small fraction of people can instantly answer the question.

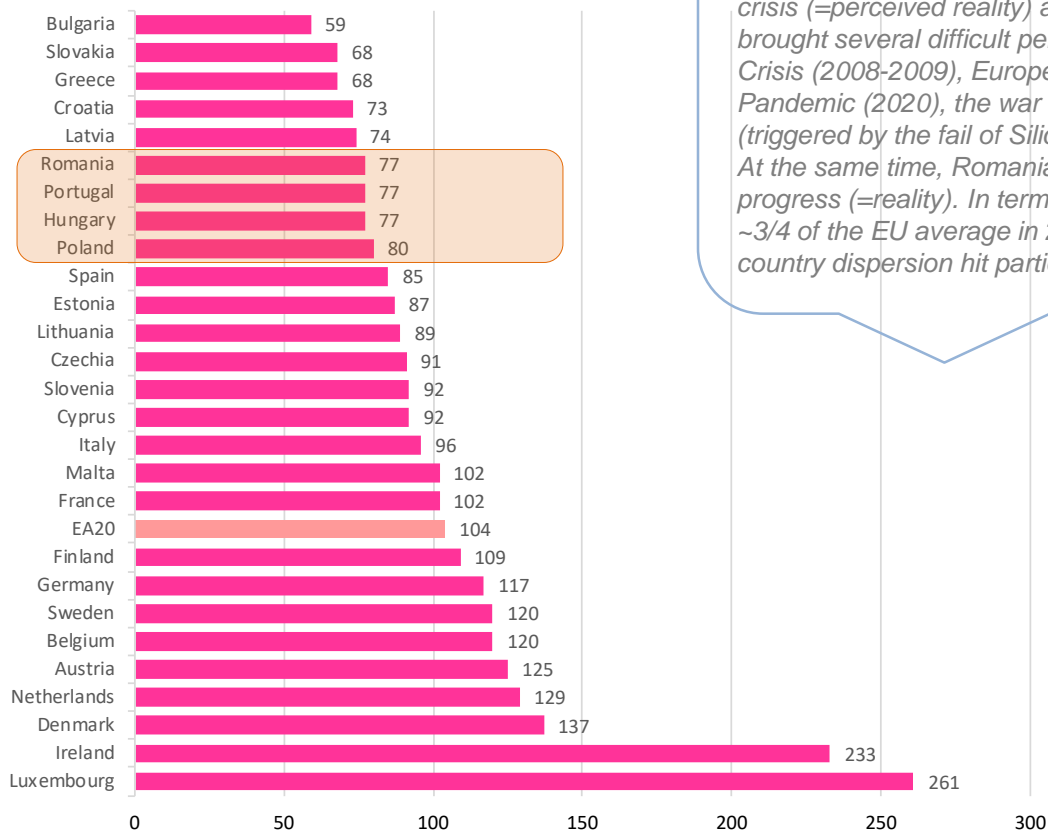
Human nature works in a manner, which tends to look only at one side of (economic, political etc.) reality. This, coupled with an upsurge of social media that enhance polarization, may lead to information bubbles: the chart below shows a retweet network on X (former Twitter), among people sharing posts about US politics.



Google searches for “criza” in Romania



Index of GDP per capita, 2022, (EU=100) (in purchasing power standards)



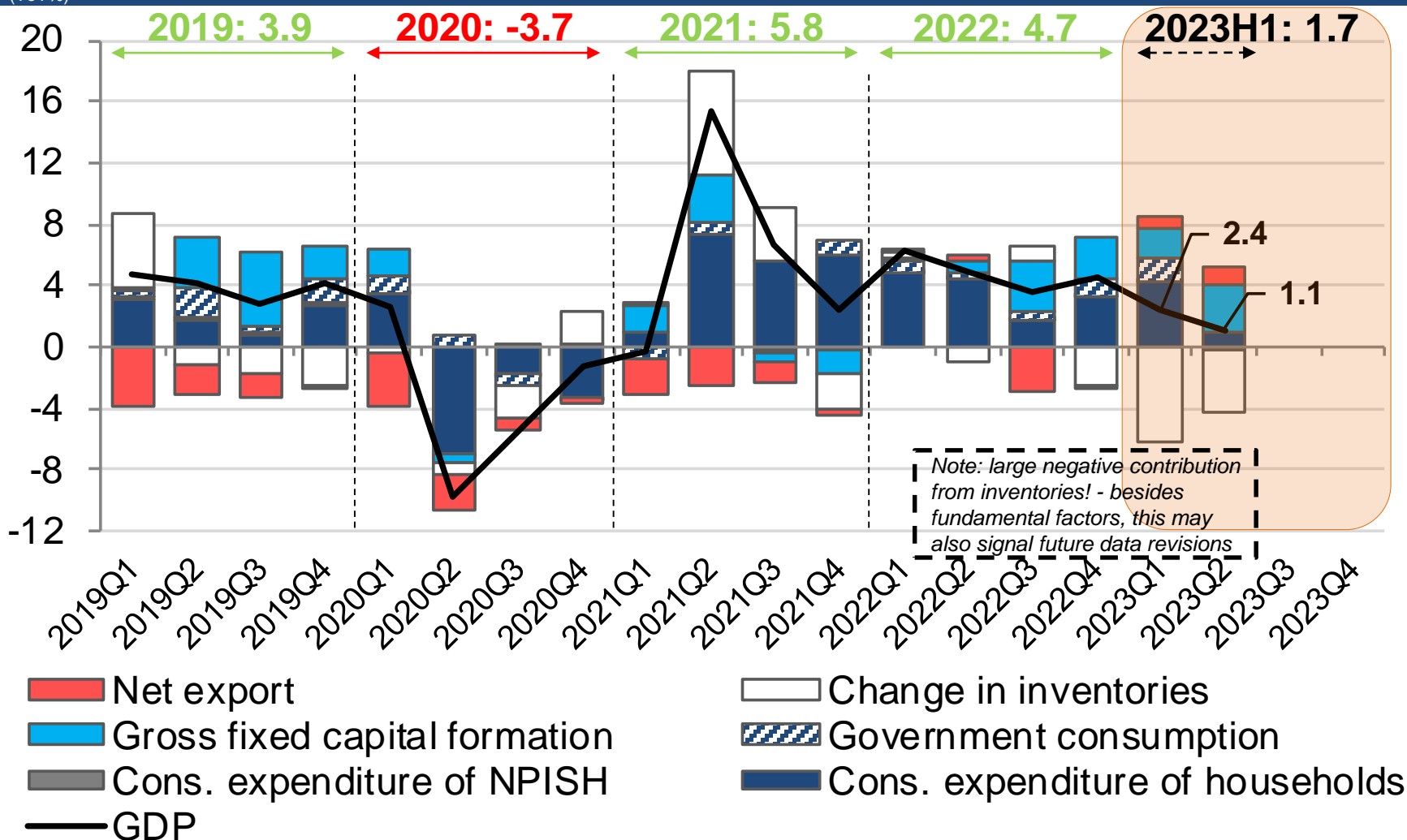
It may seem that our lifetime is characterized by almost constant crisis (=perceived reality) and, indeed, the past two decades brought several difficult periods, such as the Great Financial Crisis (2008-2009), European Debt Crisis (2010), SARS-COV-2 Pandemic (2020), the war in Ukraine (2022), US banking crisis (triggered by the fail of Silicon Valley Bank - 2023). At the same time, Romania has achieved a remarkable economic progress (=reality). In terms of per capita GDP, Romania reached ~3/4 of the EU average in 2022, up from ~1/4 in 2000 (yet, intra-country dispersion hit particularly high levels).

Real Economy

After 2021-2022's rapid recovery, in H1 2023, Romania's economy was characterized by a sharp and (on the production side, broad-based) deceleration due to several reasons...

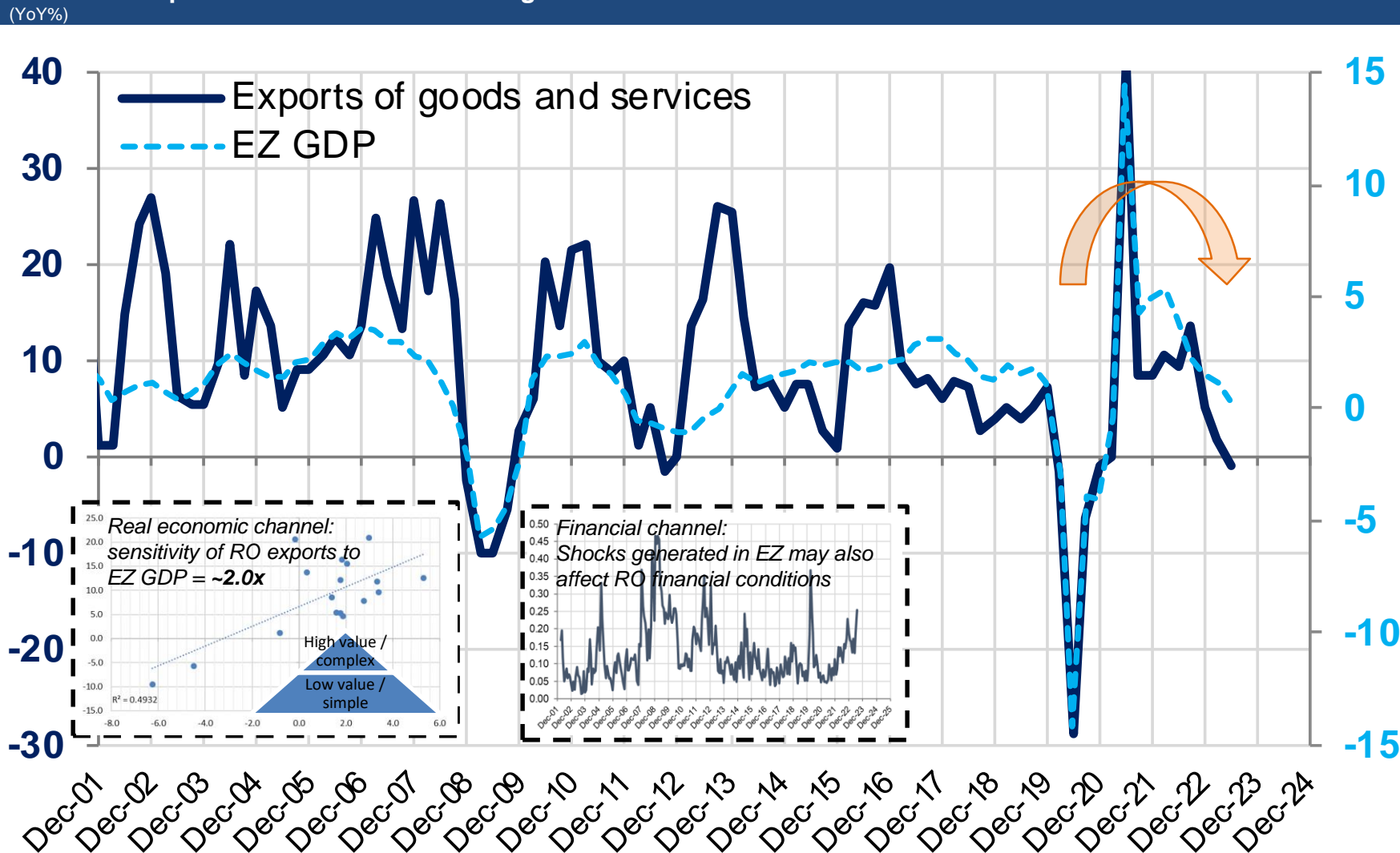
Decomposition of GDP growth by expenditure-side items

(YoY%)



...such as an unsupportive global context (fading reopening boost, fight against inflation, the war in Ukraine is not over yet etc.), resulting in much weaker external demand that drags down export growth.

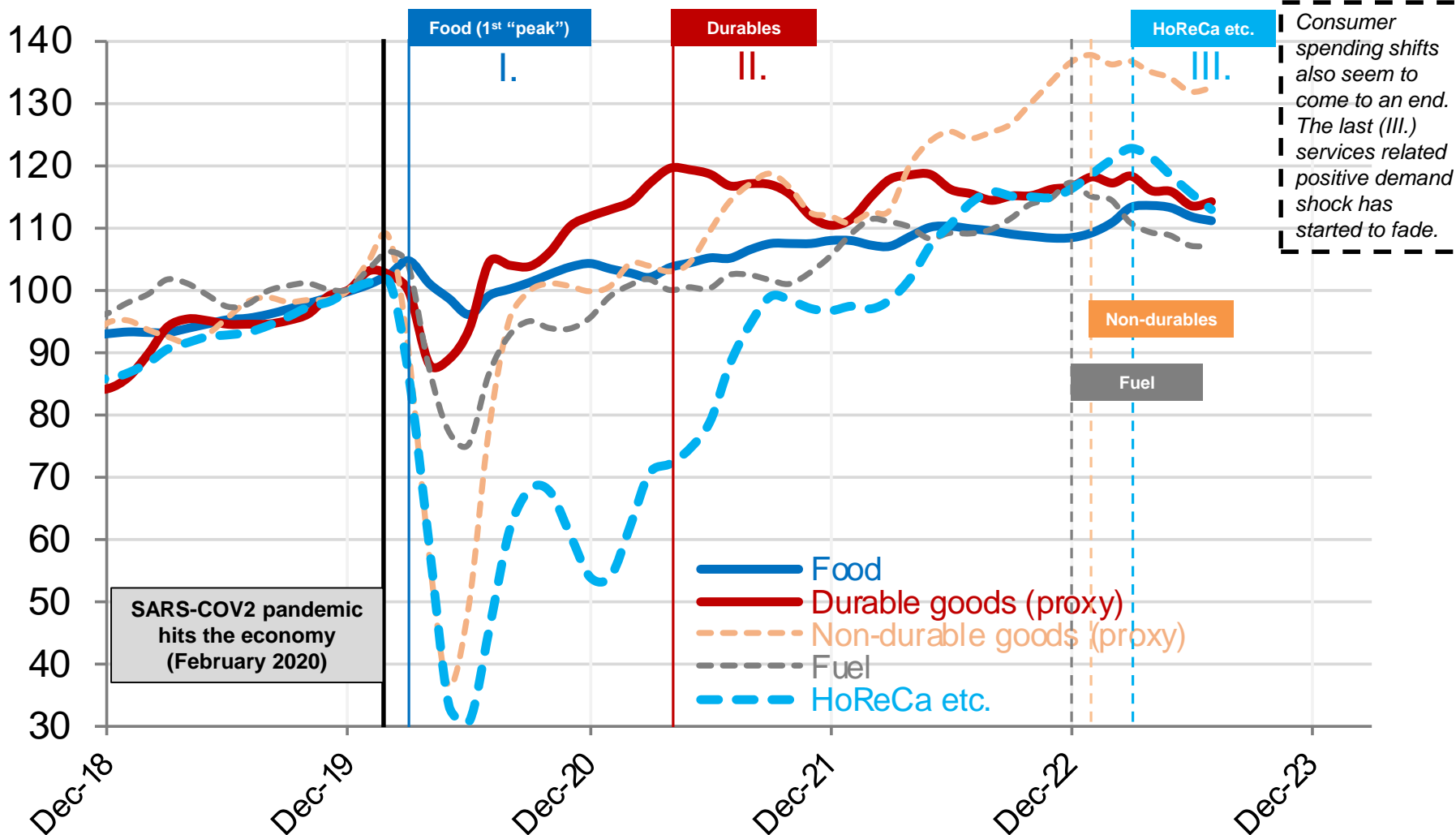
Romanian export volume vs. EZ real GDP growth



Meanwhile, consumption also softened significantly as the reopening effect faded...

Consumption proxy indicators

(2019 Q4 = 100, SA, 3MMA)



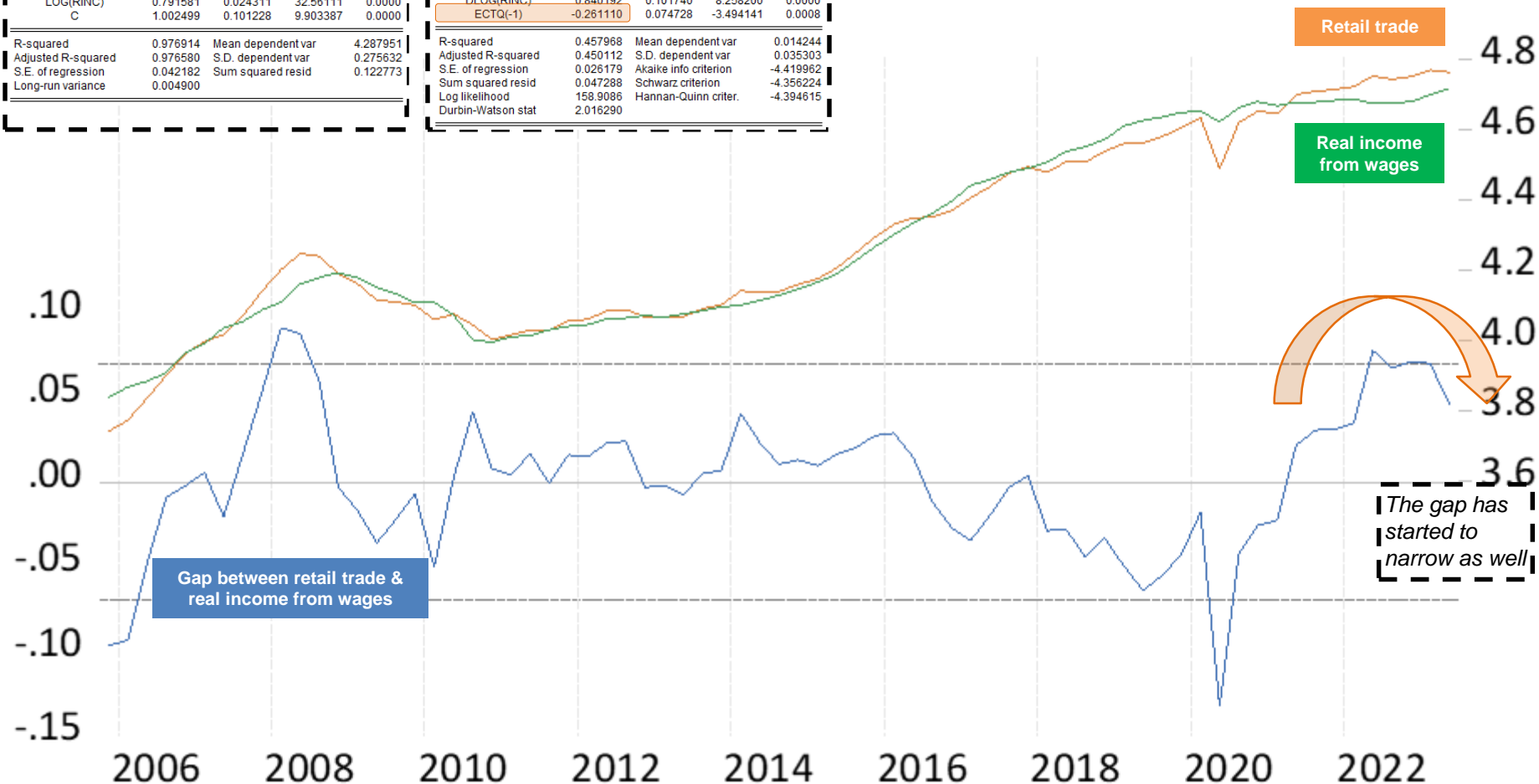
...and as households became much more prudent...

Long-term relationship between retail trade and real disposable income from wages

(logarithm)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LOG(RINC)	0.791581	0.024311	32.56111	0.0000
C	1.002499	0.101228	9.903387	0.0000
R-squared	0.976914	Mean dependent var	4.287951	
Adjusted R-squared	0.976580	S.D. dependent var	0.275632	
S.E. of regression	0.042182	Sum squared resid	0.122773	
Long-run variance	0.004900			

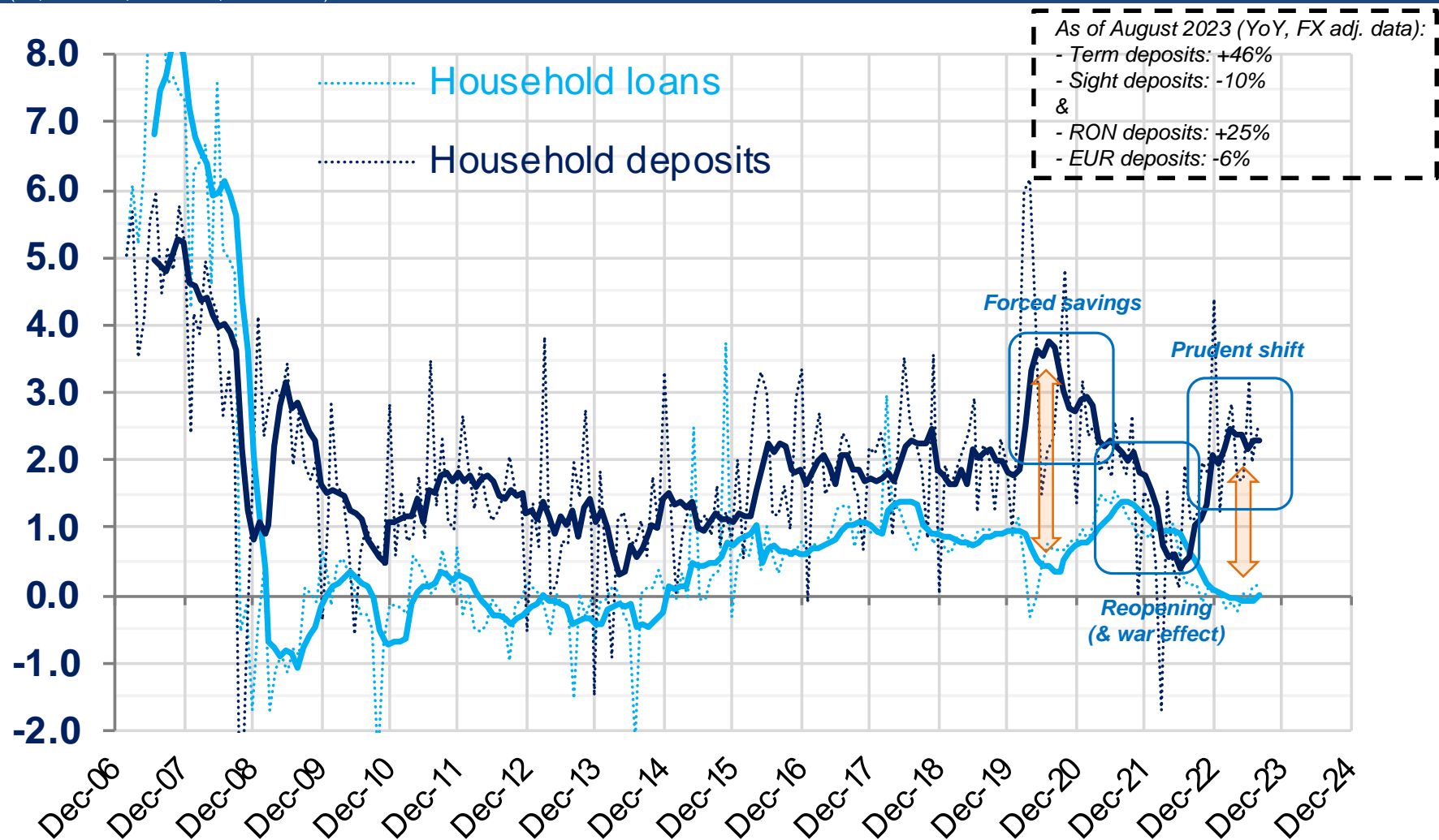
Variable	Coefficient	Std. Error	t-Statistic	Prob.
DLOG(RINC)	0.840192	0.101740	8.258200	0.0000
ECTQ(-1)	-0.261110	0.074728	-3.494141	0.0008
R-squared	0.457968	Mean dependent var	0.014244	
Adjusted R-squared	0.450112	S.D. dependent var	0.035303	
S.E. of regression	0.026179	Akaike info criterion	-4.419962	
Sum squared resid	0.047288	Schwarz criterion	-4.356224	
Log likelihood	158.9086	Hannan-Quinn criter.	-4.394615	
Durbin-Watson stat	2.016290			



...focusing more on savings (encouraged also by more attractive interest rates on RON term-deposits).

Household loan and deposit flows

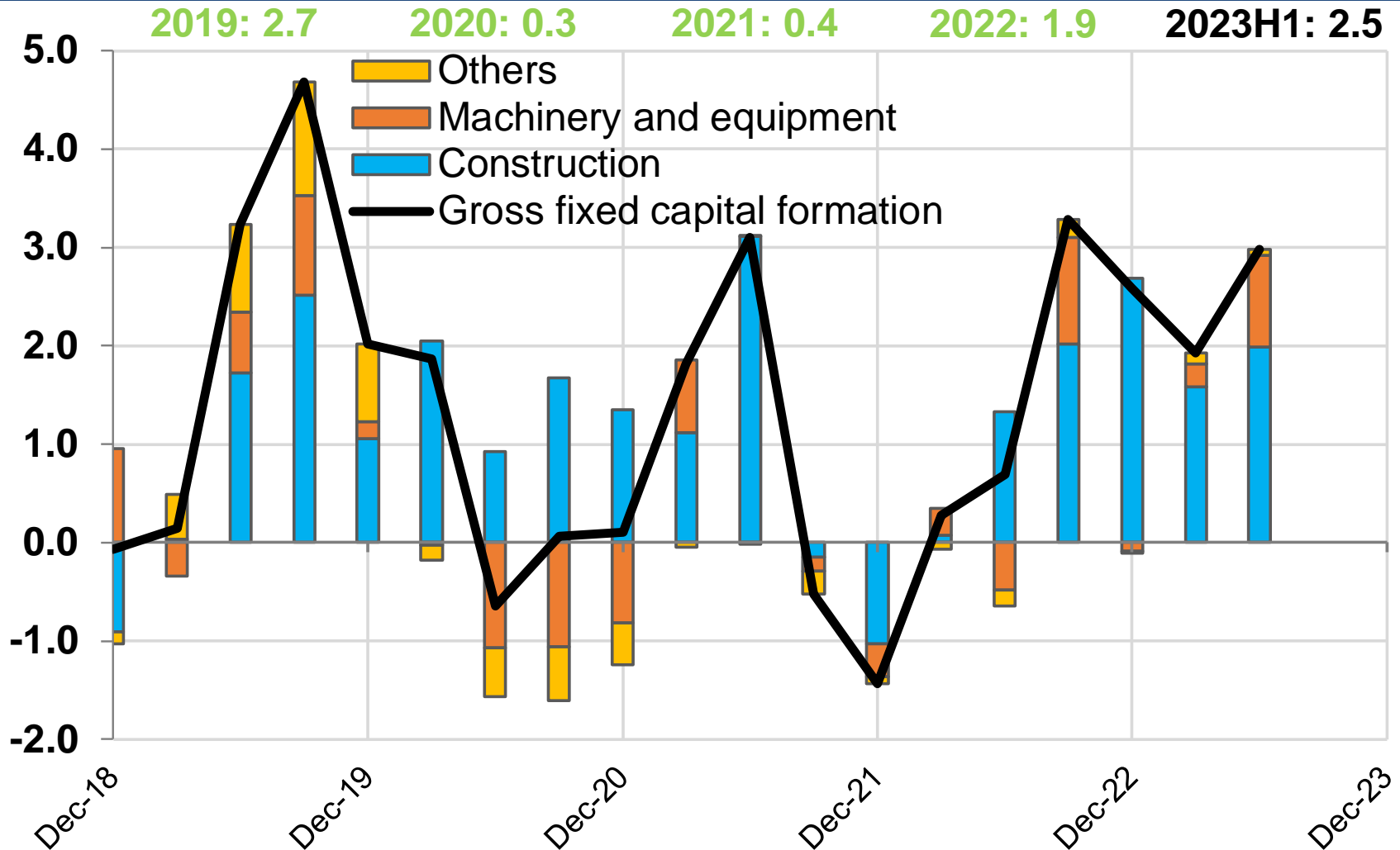
(SA, % of GDP, annualized; trend 6MMA)



Despite higher interest rates, investments fared well, driven primarily by constructions as well as the segment of machinery and equipment (including means of transport) ...

Contribution of GFCF to the annual real GDP growth by components

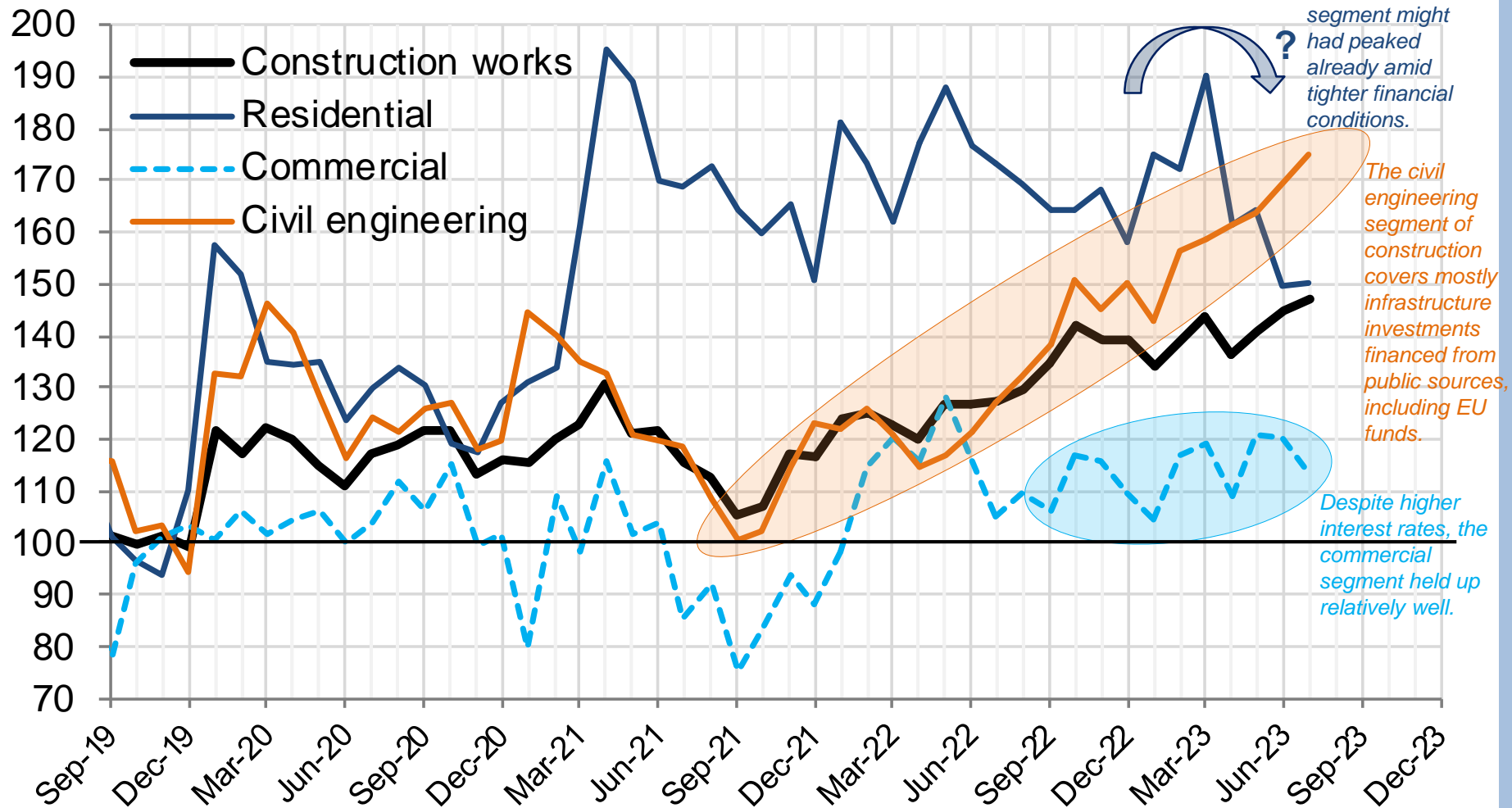
(pps)



...supported also by EU funds...

Construction works

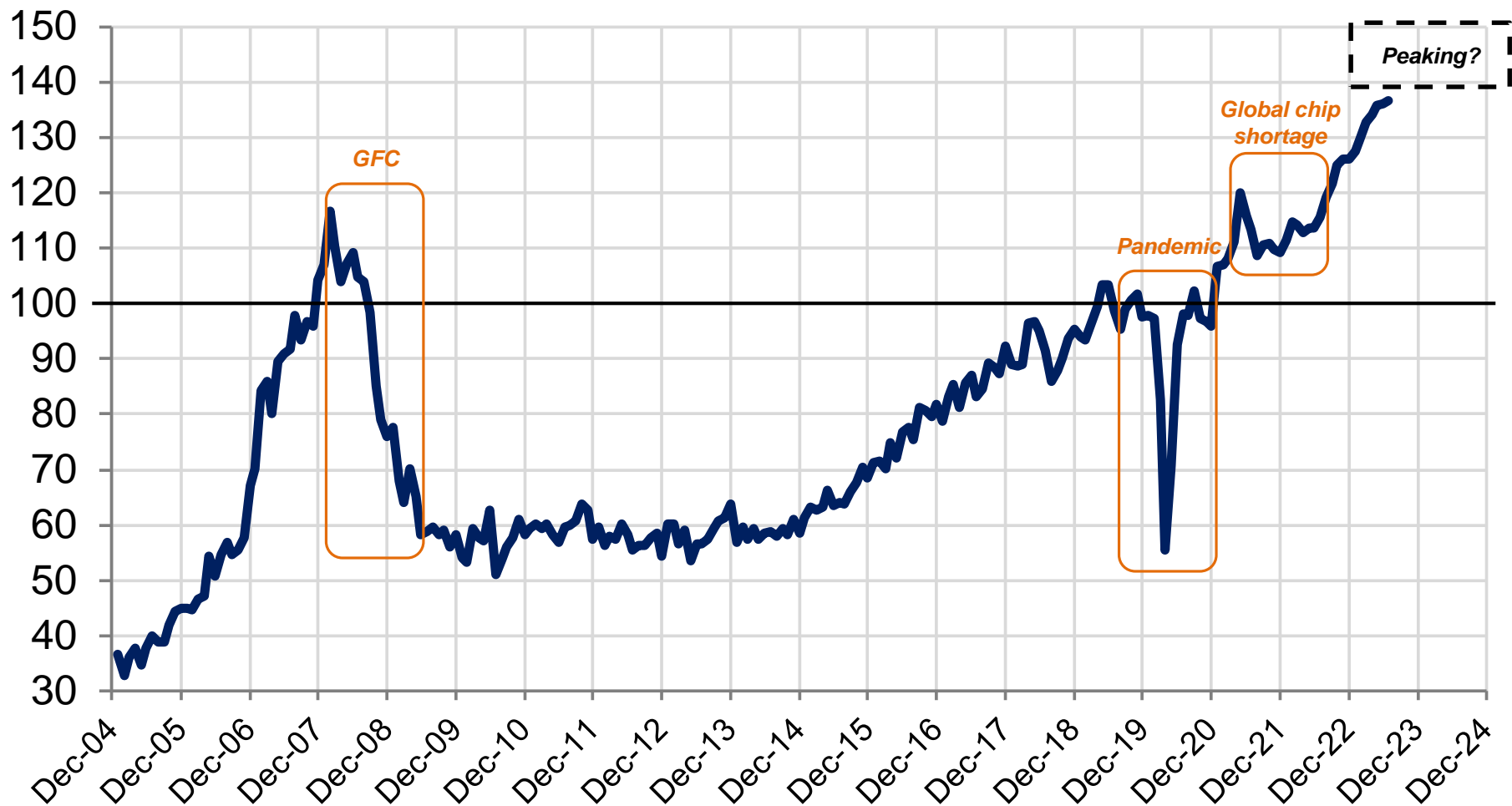
(2019Q4 = 100, SA)



...while auto sales hit an all-time high.

Trade with motor vehicles and motorcycles

(2019Q4 = 100, SA)



On the production side, industry suffered the most, but market services are also losing momentum...

Decomposition of GDP growth by production-side items

(YoY%)

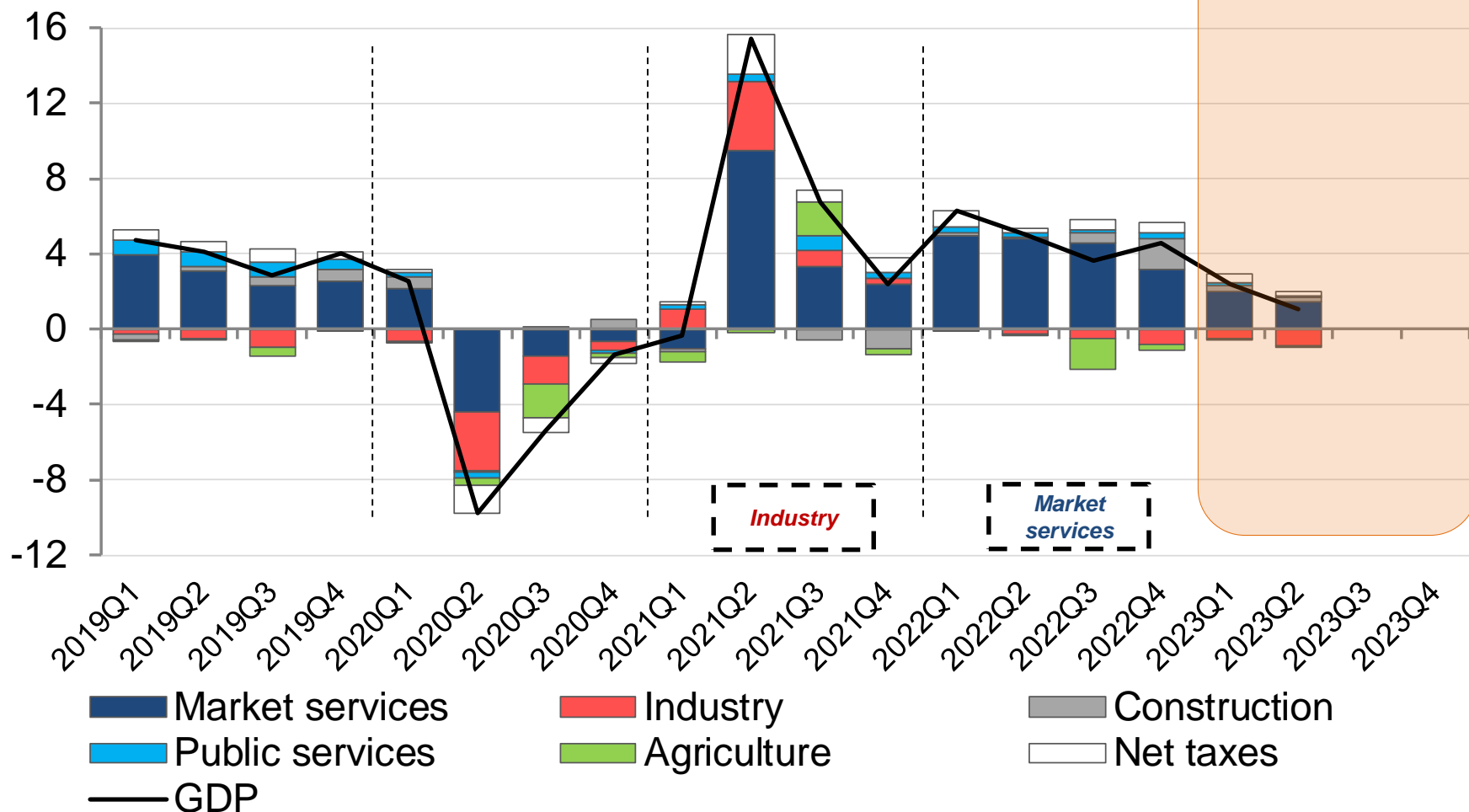
2019: 3.9

2020: -3.7

2021: 5.8

2022: 4.7

2023H1: 1.7



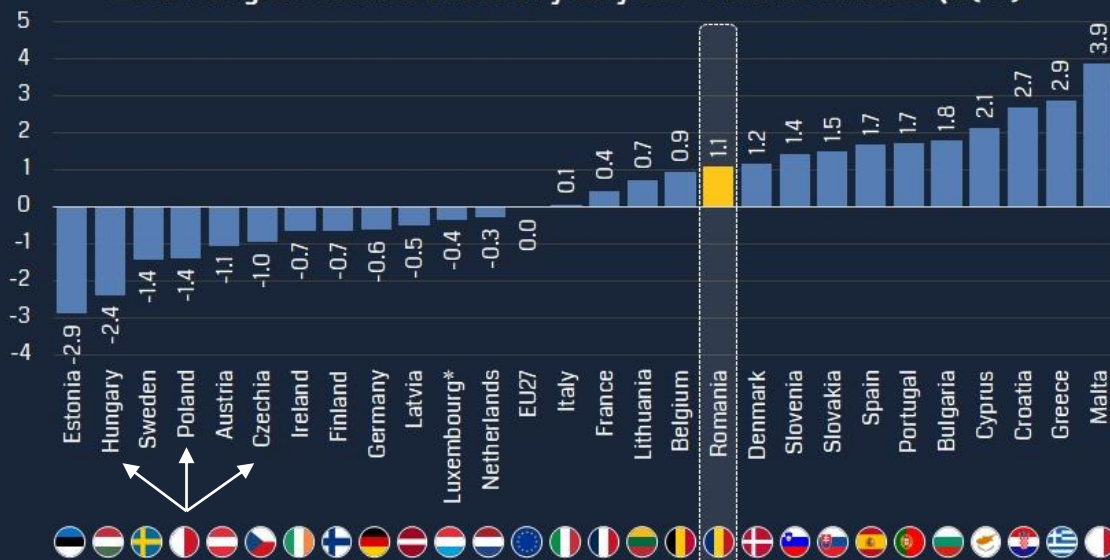


The Romanian GDP in 2023 Q2

Source: Eurostat (Unadjusted data)



EU ranking of countries based on yearly GDP evolution in 2023 Q2 (%)



A sluggish (+1.1%, well below Romania's long-term average) growth pace may feel like a crisis... but it is not an outright economic recession.

Evolution of the yearly GDP in Romania, 2019 Q1 – 2023 Q2 (%)



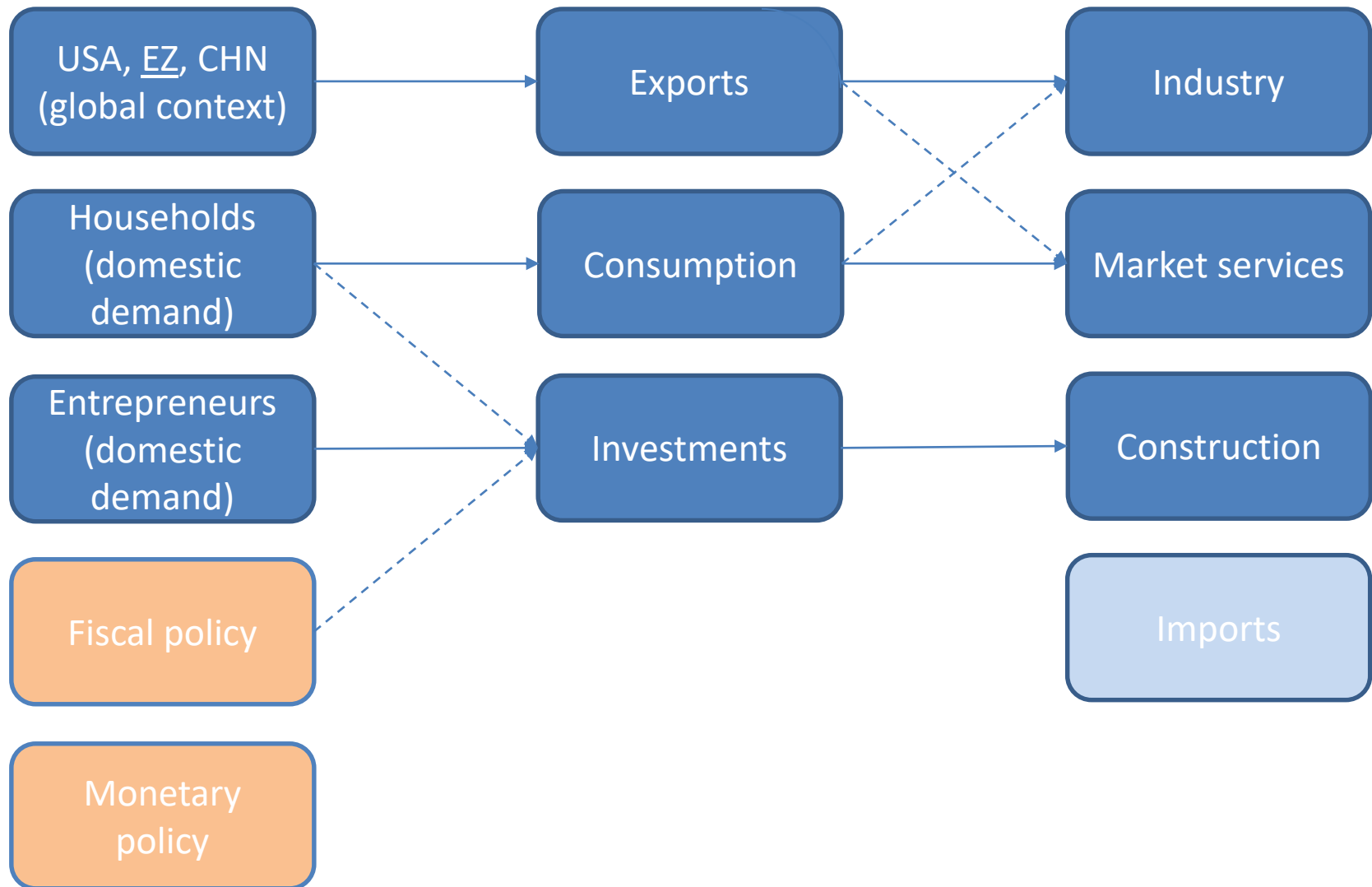
Romanian real GDP evolution:
 - 2023Q2 vs. 2019Q4: +8%
 - 2012Q1 vs. 2008Q3: -4%

*Missing data 2023 Q2, 2023 Q1 vs 2022 Q1



Romanian Economic Monitor
econ.ubbcluj.ro/roem

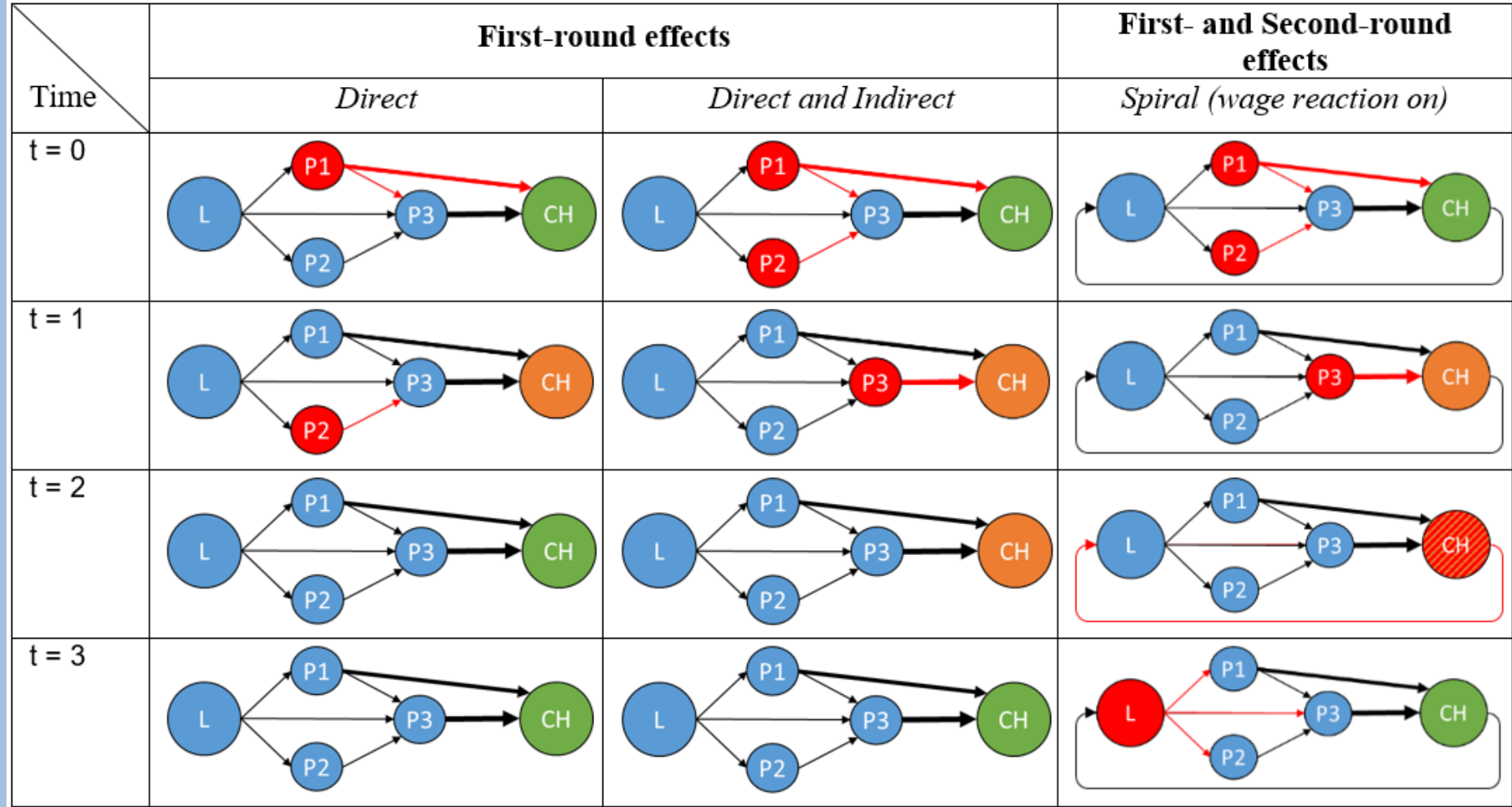
A stylized framework about how global- and domestic factors as well as fiscal- and monetary policy shocks may influence certain GDP components:



Inflation

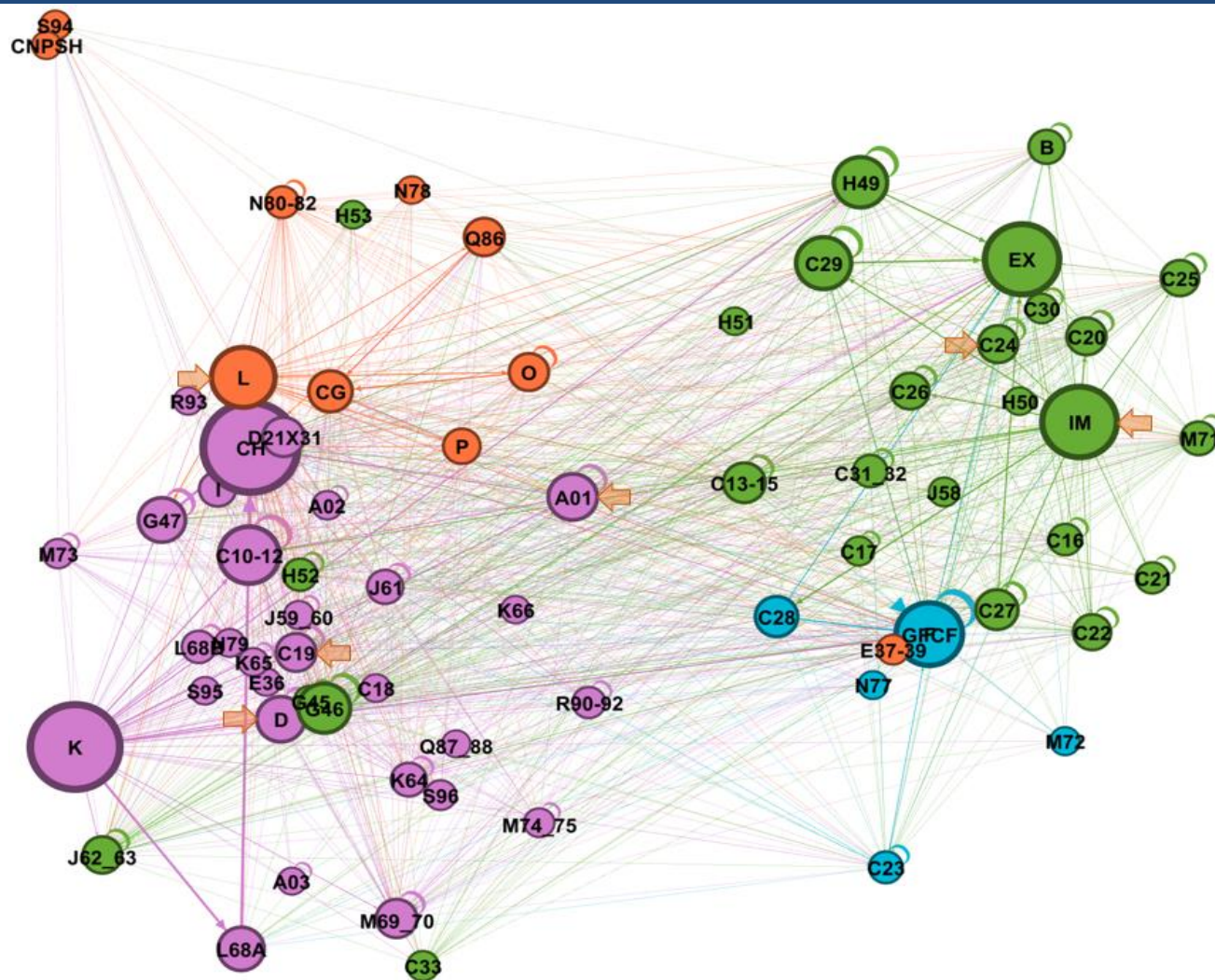
A stylized representation of first-round direct and indirect effects, as well as second-round impacts of diverse price shocks in a simplified network:

Stylised price shock propagation



Owing to unfavourable global developments, energy sectors (NACE code: D and C19) as well as agriculture (A01) generated large price shocks in Romania's economic network...

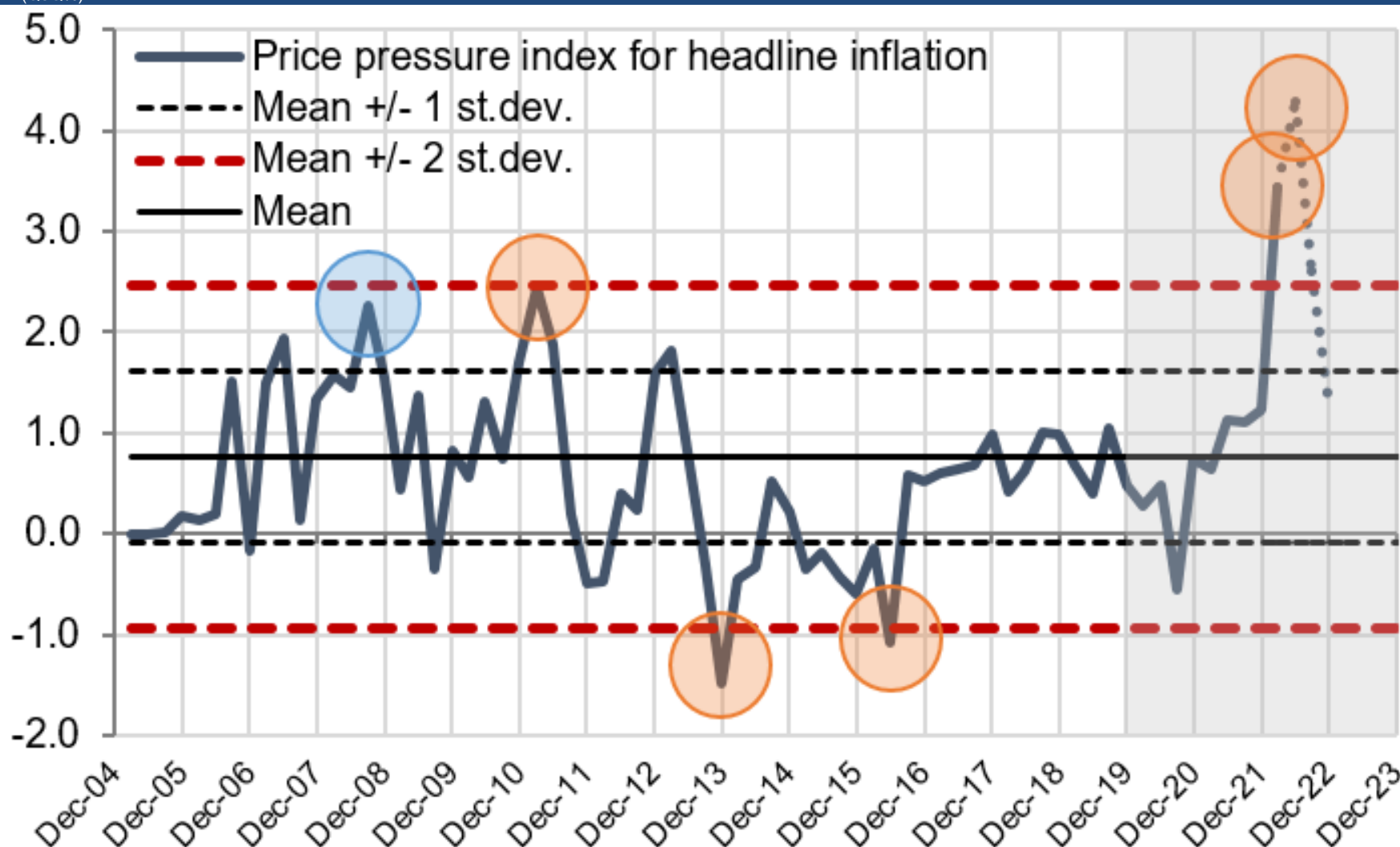
Romania's economic network as derived from the supply and use table (2015)



...the magnitude of sectoral cost shocks experienced in early 2022 corresponds to an extreme - fat tail - event, with no other similar episode since the introduction of inflation targeting in Romania.

Factual historical data for the sectorial price pressure index

(QoQ%)



Significant progress (headline inflation fell in single-digit territory!), but we are not there (=inflation target of 2.5% +/- 1%) yet...

Consumer price inflation indicators

(YoY%)

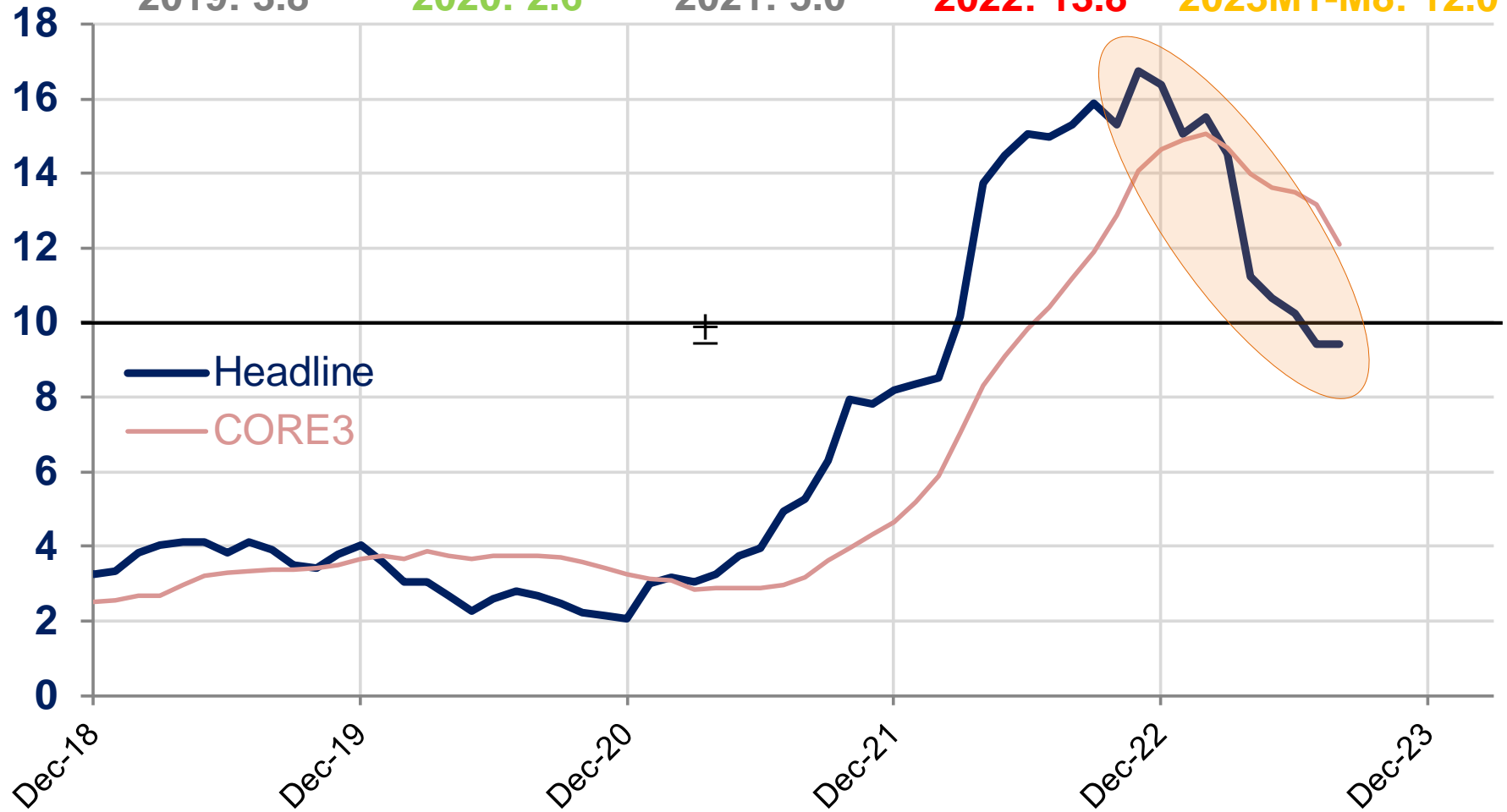
2019: 3.8

2020: 2.6

2021: 5.0

2022: 13.8

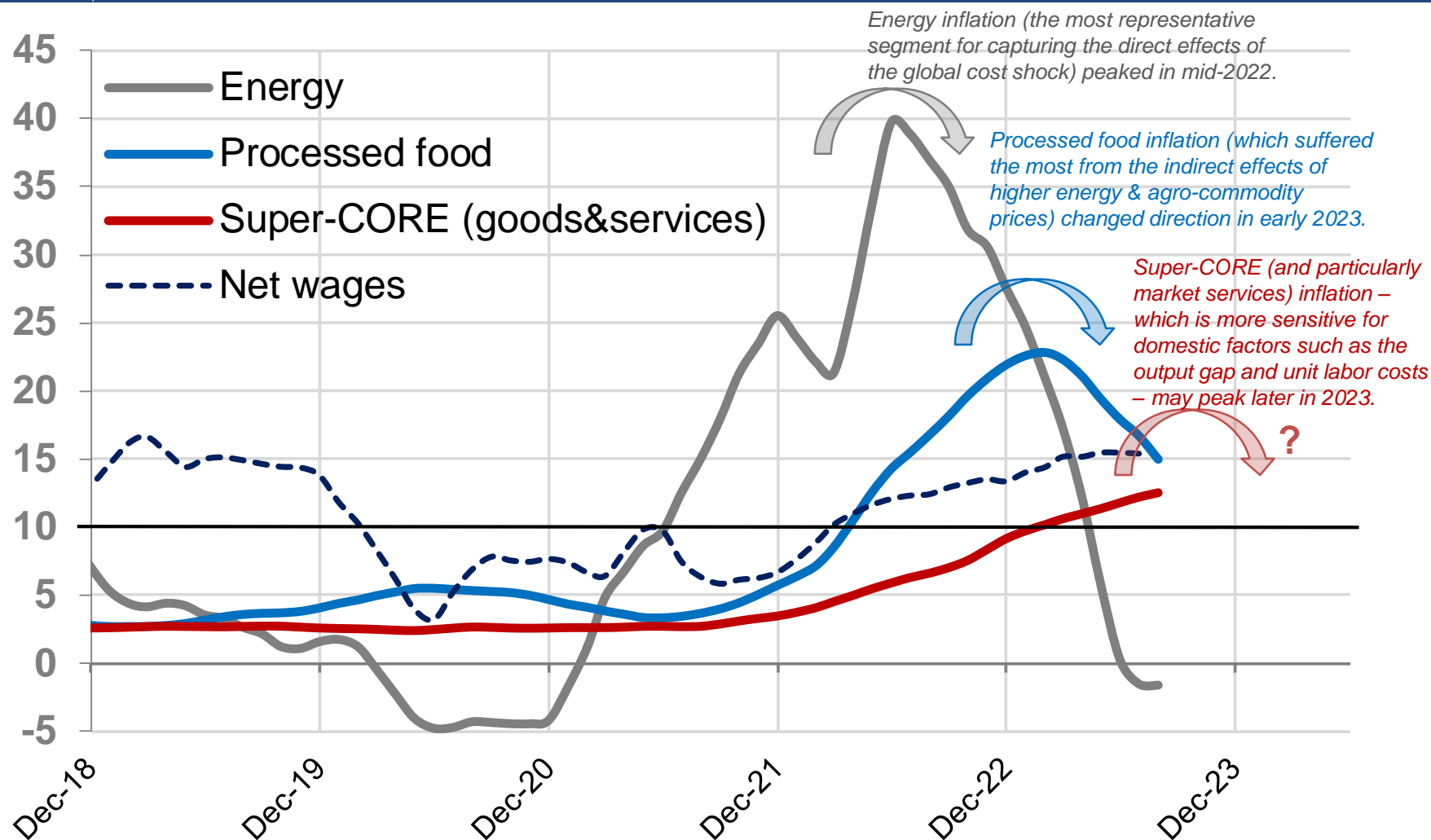
2023M1-M8: 12.0



Inflation “waves” triggered by the global cost shock

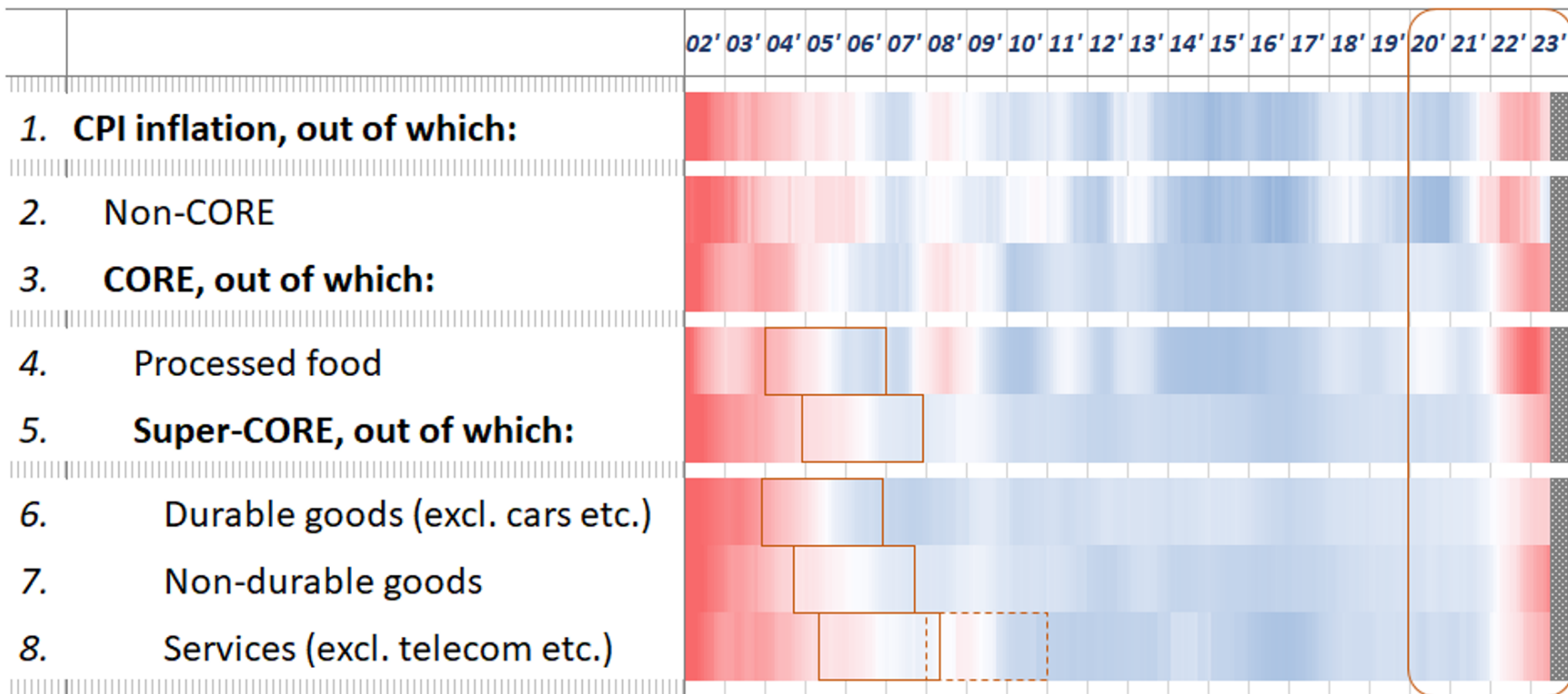
Diverse consumer price inflation indicators vs. net wages

(YoY%, 3MMA)



Inflation heat map

(YoY %, standardized)

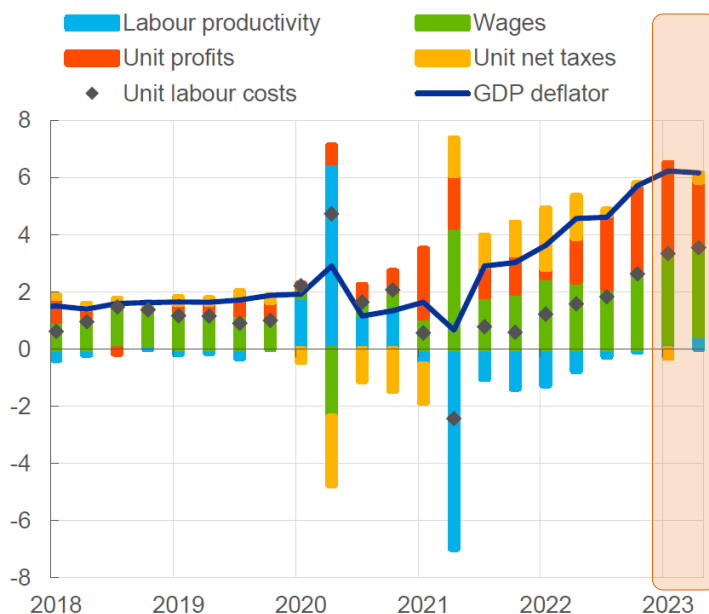




Unit labour costs are largest contributor to domestic inflation, while profits contribute less

GDP deflator – income side decomposition

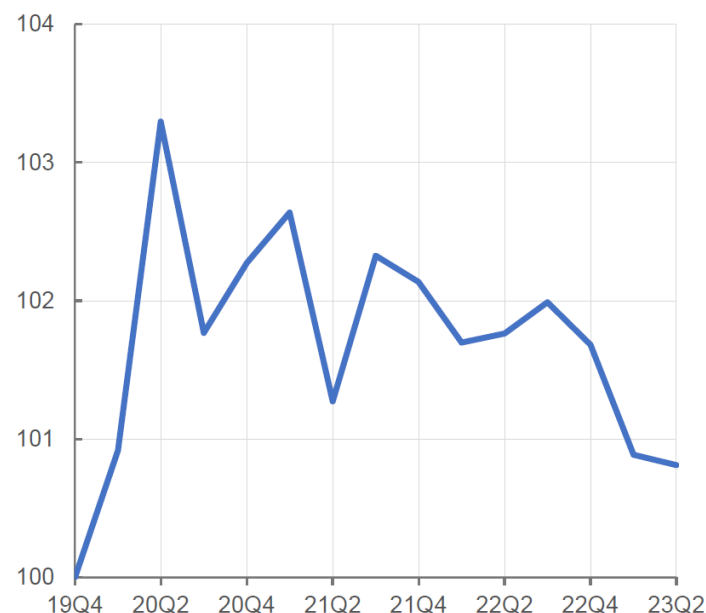
(annual percentage changes, percentage points contributions)



Sources: Eurostat and ECB staff calculations.
Latest observation: 2023 Q2.

Labour productivity per hour

(index 2019 Q4 = 100)



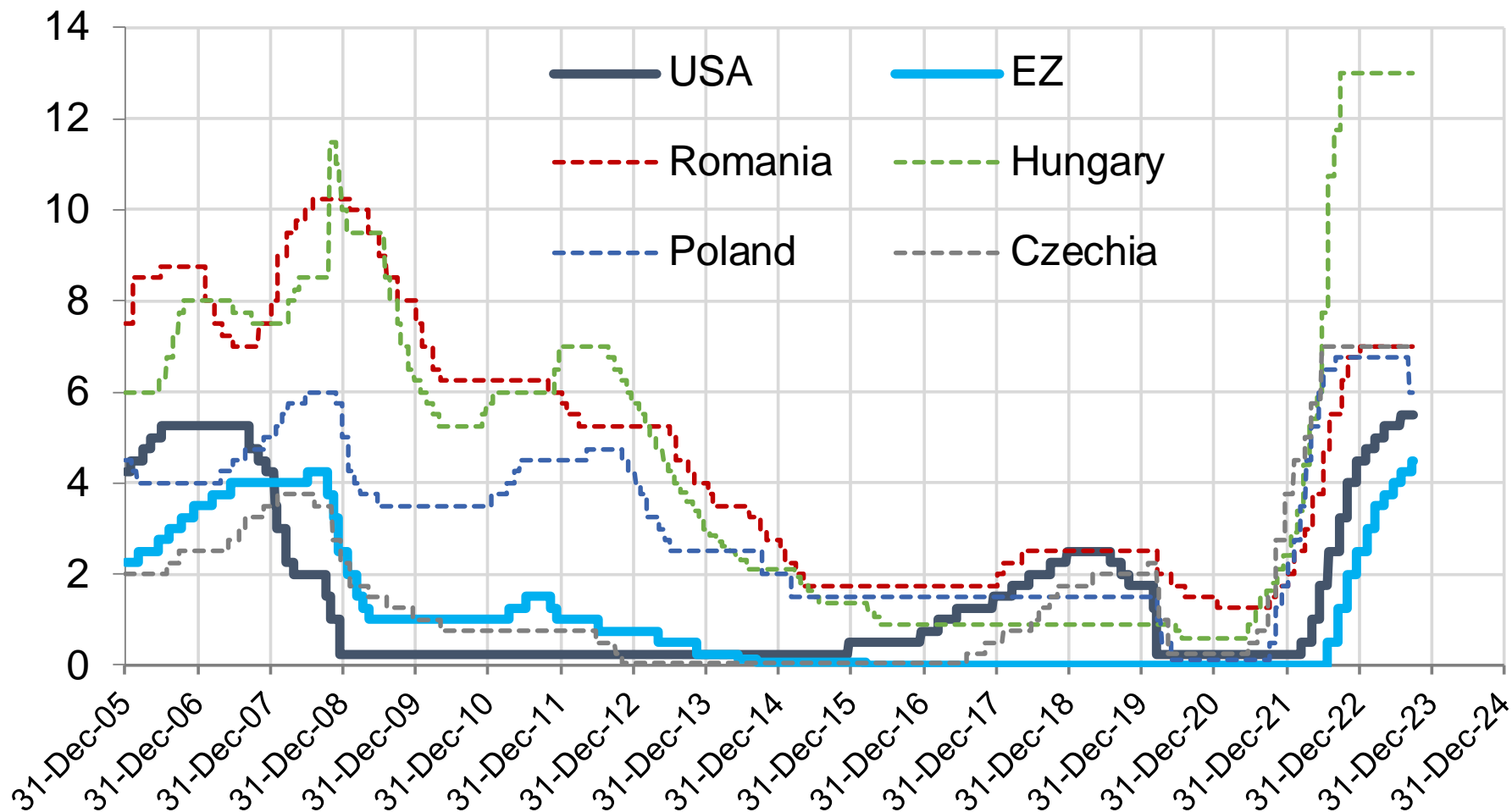
Sources: ECB calculation based on Eurostat data.
Latest observation: 2023 Q2.

Selected Subjects

Monetary policy: in order to tame inflation, central banks raised interest rates

Policy rates

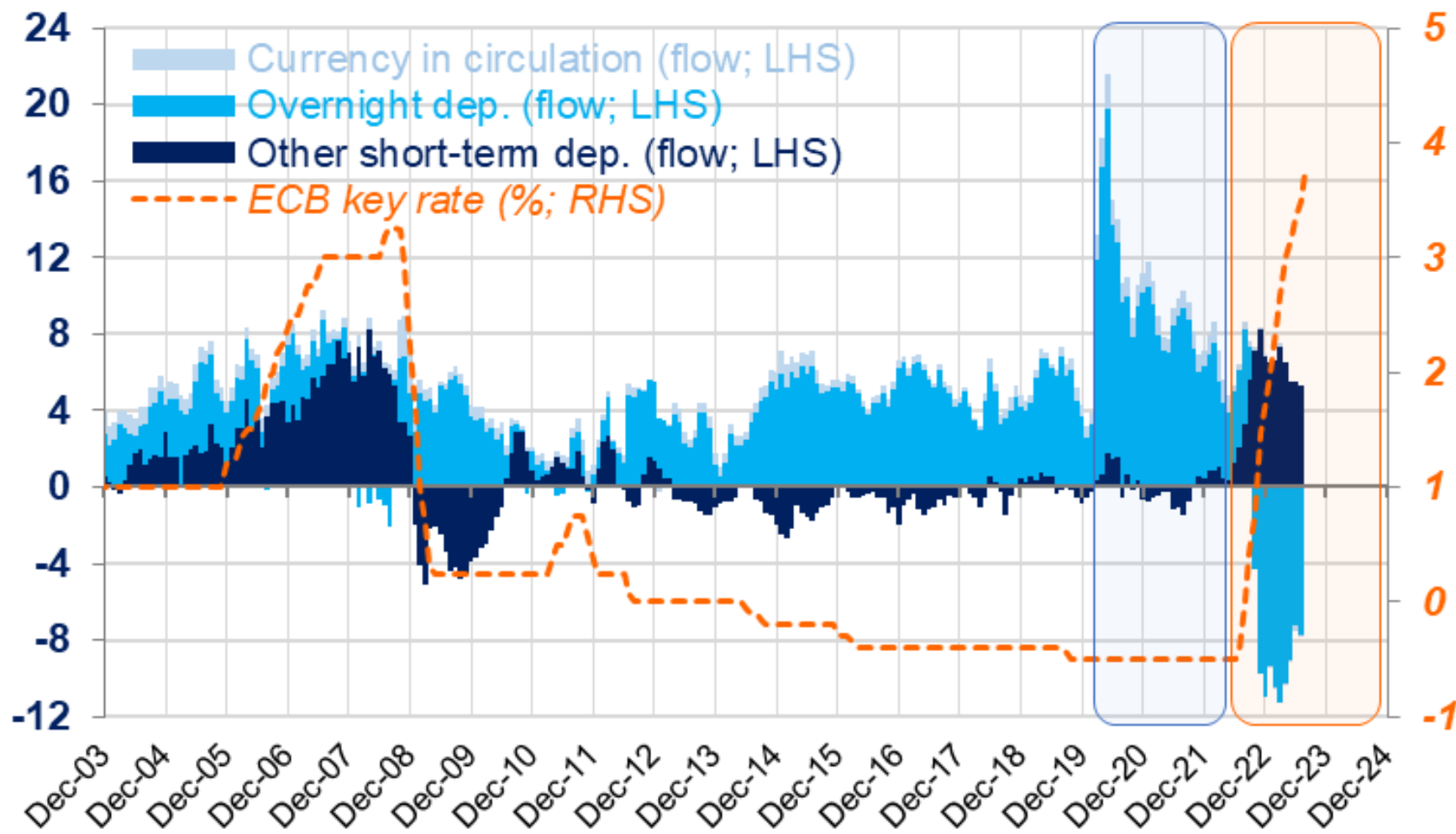
(%)





Money flows

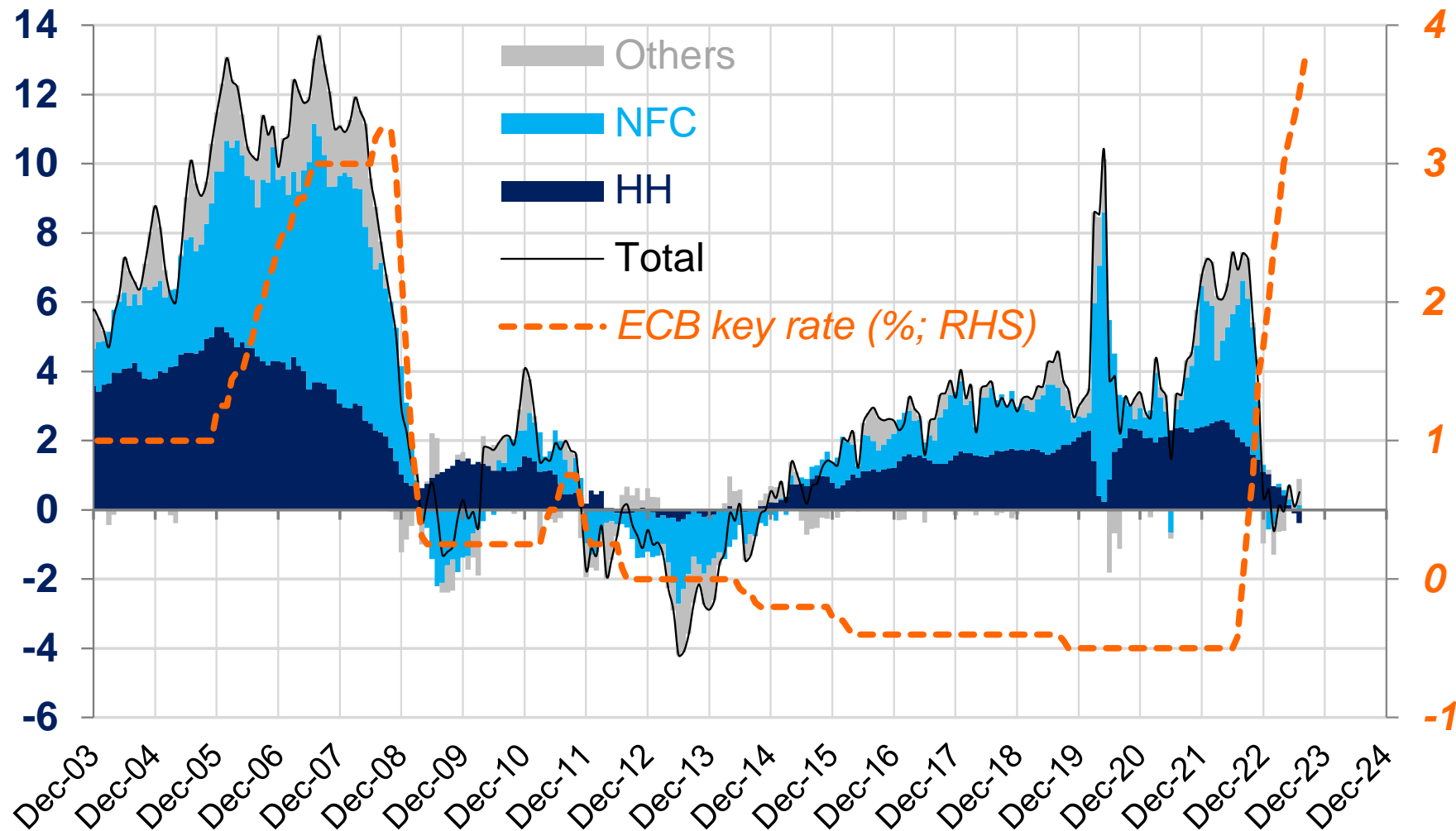
(SA, % of GDP, annualized)





Credit flows

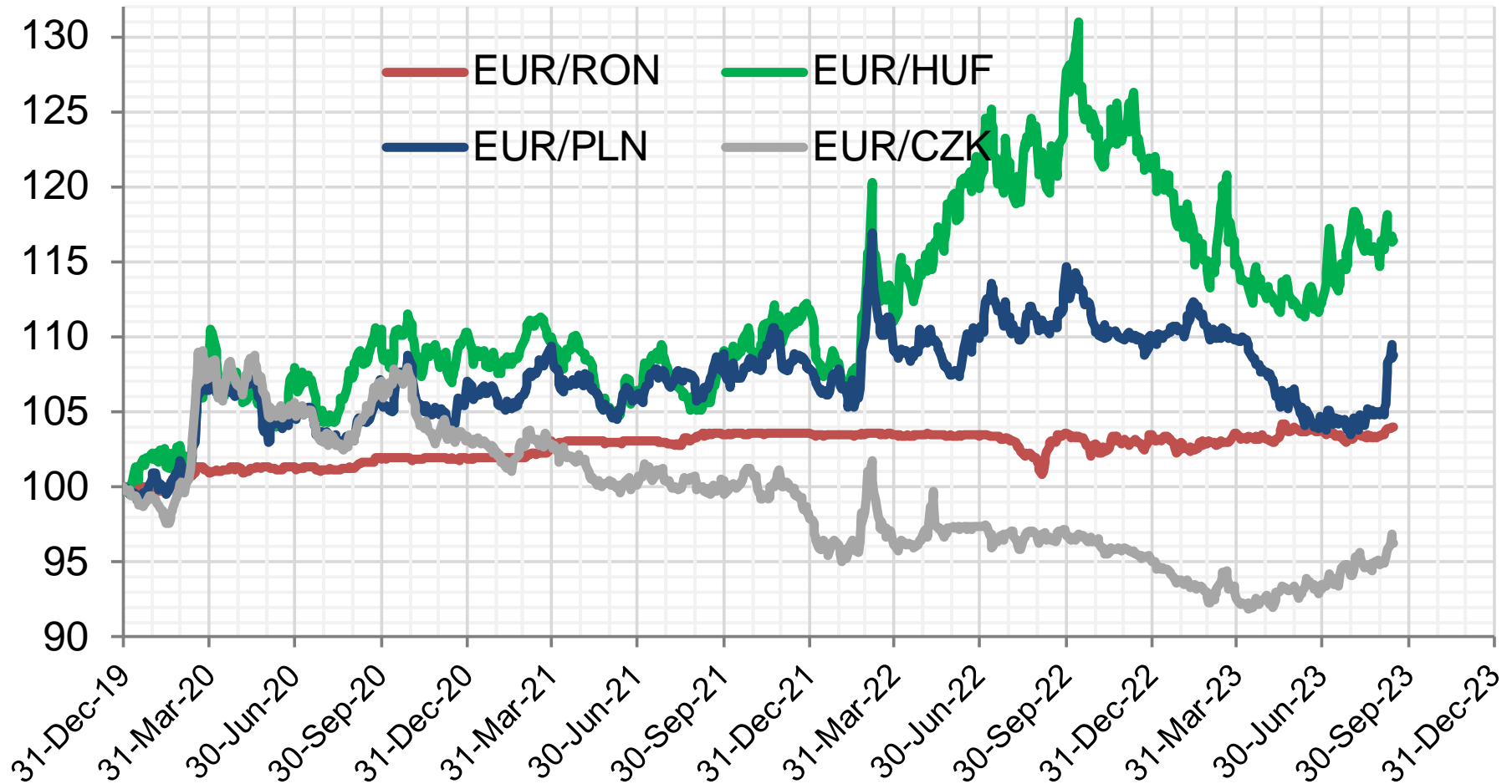
(SA, % of GDP, annualized; 3MMA)



Financial developments: the relatively stable exchange rate helped limit inflationary pressures

FX rates

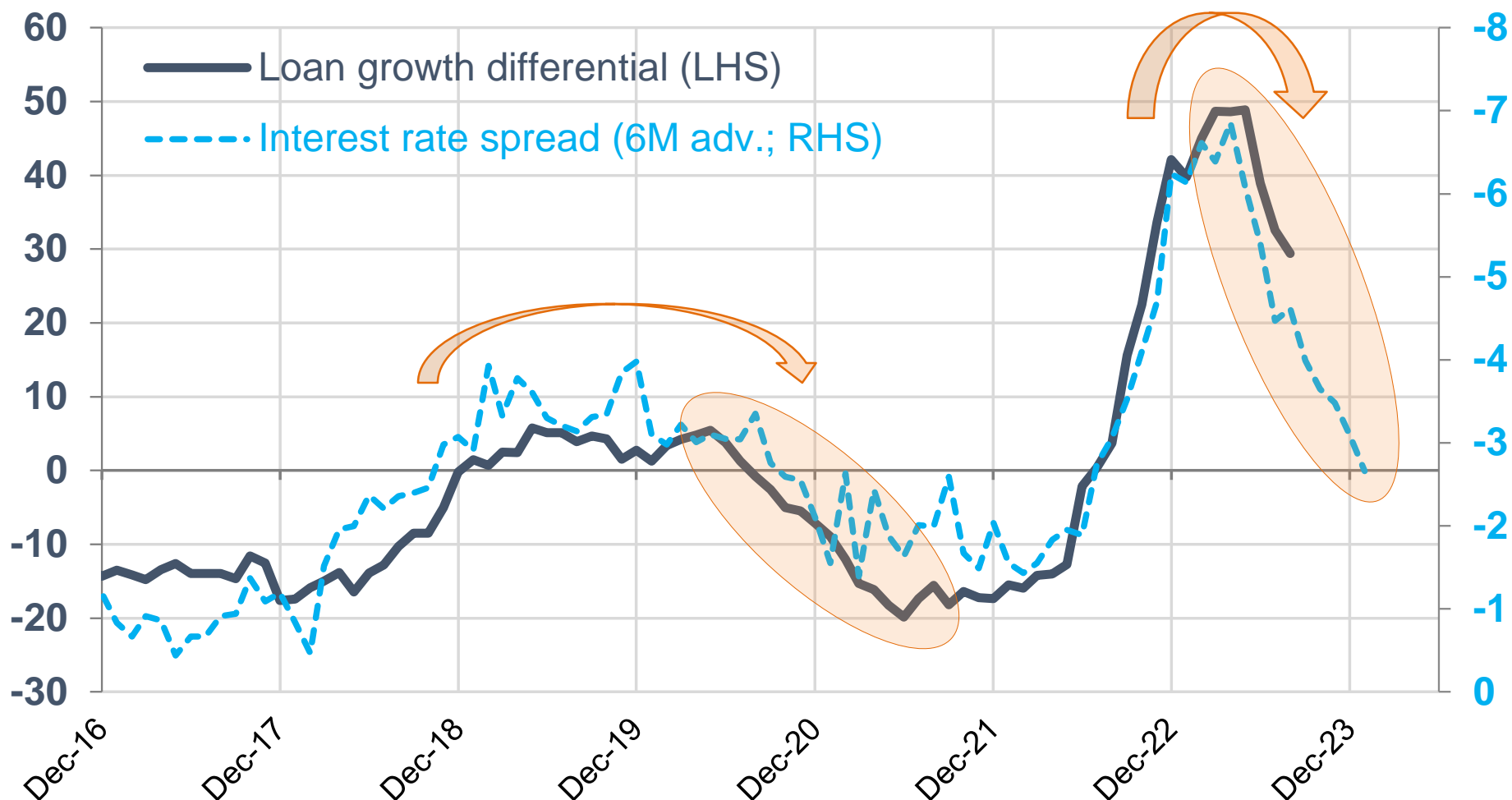
(%)



Financial developments: as the interest rate spread narrows, the dynamics of euro-denominated loans lose momentum

Loan growth differential vs. interest rate spread - NFCs

(%)





List of European countries by the government budget balance

In percentage of GDP (%), average of 2022 Q2 – 2023 Q1

Source: Eurostat



Country	Surplus (+)/ Deficit (-)	Revenue	Expenditure
Norway	25.2	65.6	40.4
Denmark	3.3	48.0	44.7
Cyprus	2.3	42.2	39.9
Ireland	2.0	23.2	21.2
Croatia	0.4	46.0	45.6
Sweden	0.3	47.7	47.4
Switzerland	0.3	32.7	32.4
Portugal	0.1	44.1	44.0
Netherlands	-0.2	43.2	43.3
Luxembourg	-0.3	43.9	44.1
Finland	-0.8	52.6	53.4
Lithuania	-1.1	36.2	37.3
Estonia	-1.2	38.6	39.8
Slovakia	-2.5	40.1	42.6
Bulgaria	-2.8	38.1	41.0
Greece	-2.9	50.3	53.2
Germany	-3.0	46.5	49.6
Slovenia	-3.1	42.1	45.2
Austria	-3.4	49.1	52.5
EU27	-3.5	46.1	49.6
Poland	-3.8	39.7	43.5
Latvia	-4.0	36.3	40.3
Czechia	-4.0	41.2	45.1
Iceland	-4.2	41.7	45.9
Spain	-4.3	42.8	47.2
France	-4.5	53.5	58.0
Belgium	-4.6	49.3	53.9
Malta	-4.9	34.8	39.7
Romania	-5.9	33.3	39.2
Hungary	-7.8	41.7	49.5
Italy	-8.3	48.3	56.6

Very low government budget revenues and particularly high deficit... In order to keep Romania's economy on a sustainable path, fiscal consolidation is unavoidable

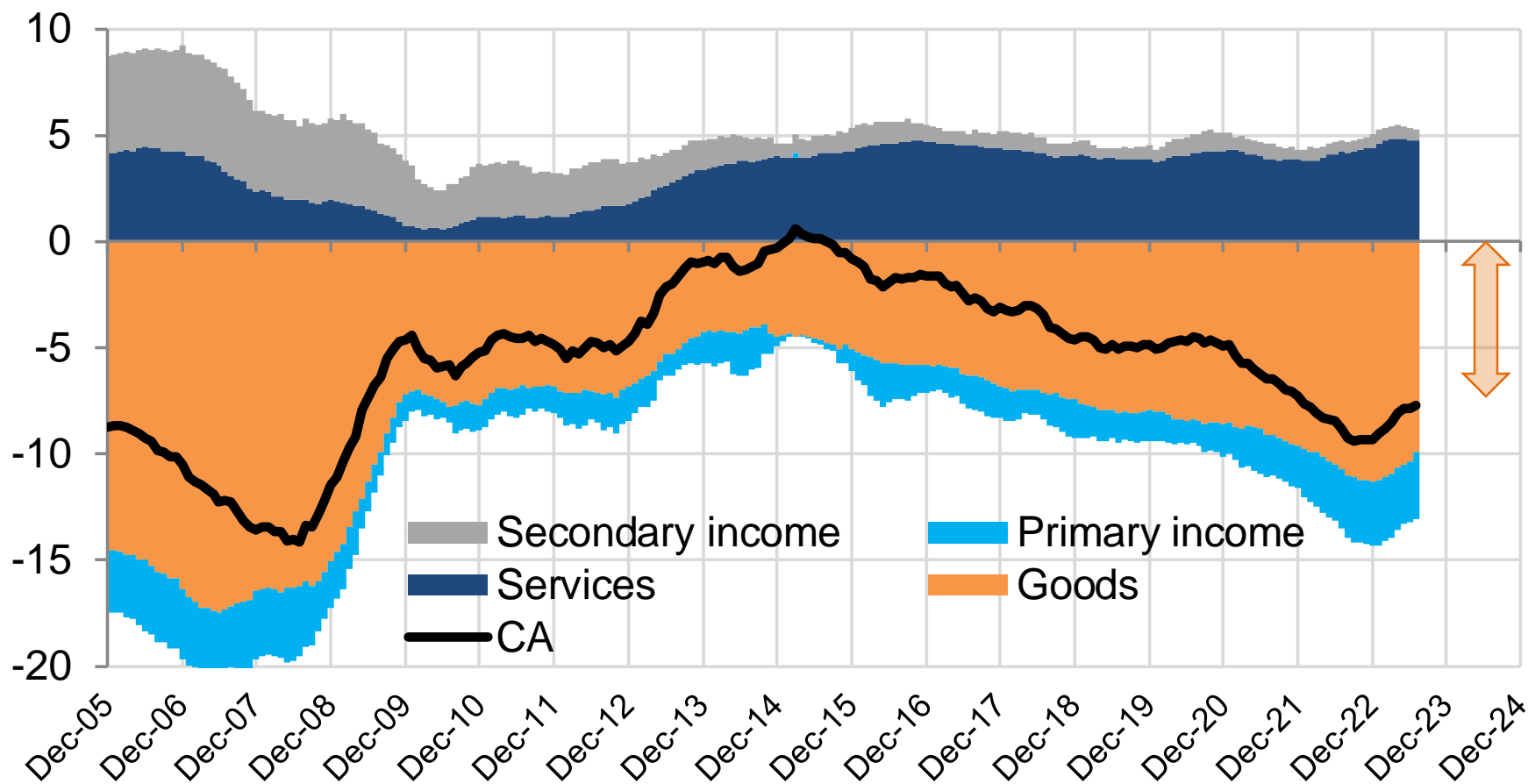


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External balance: the country's current account deficit showed some improvement, but it will remain a major macroeconomic challenge for the years ahead

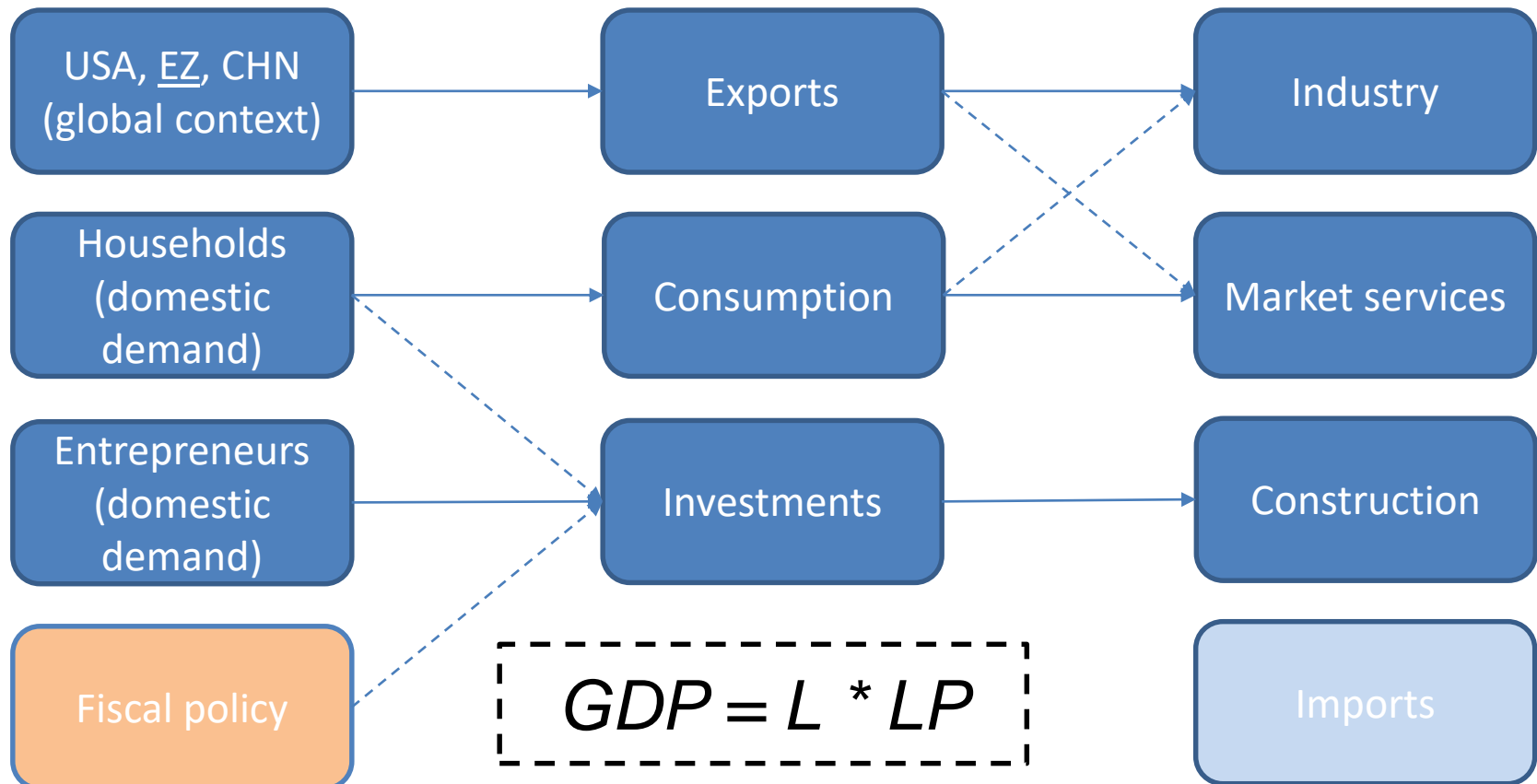
Current account balance by its main components

(as % of GDP, 12M rolling)



Perspectives

What to expect in 2024?... Another below trend GDP growth pace seems plausible (a relatively soft figure is also necessary to temper inflationary pressures), but downside risks are high

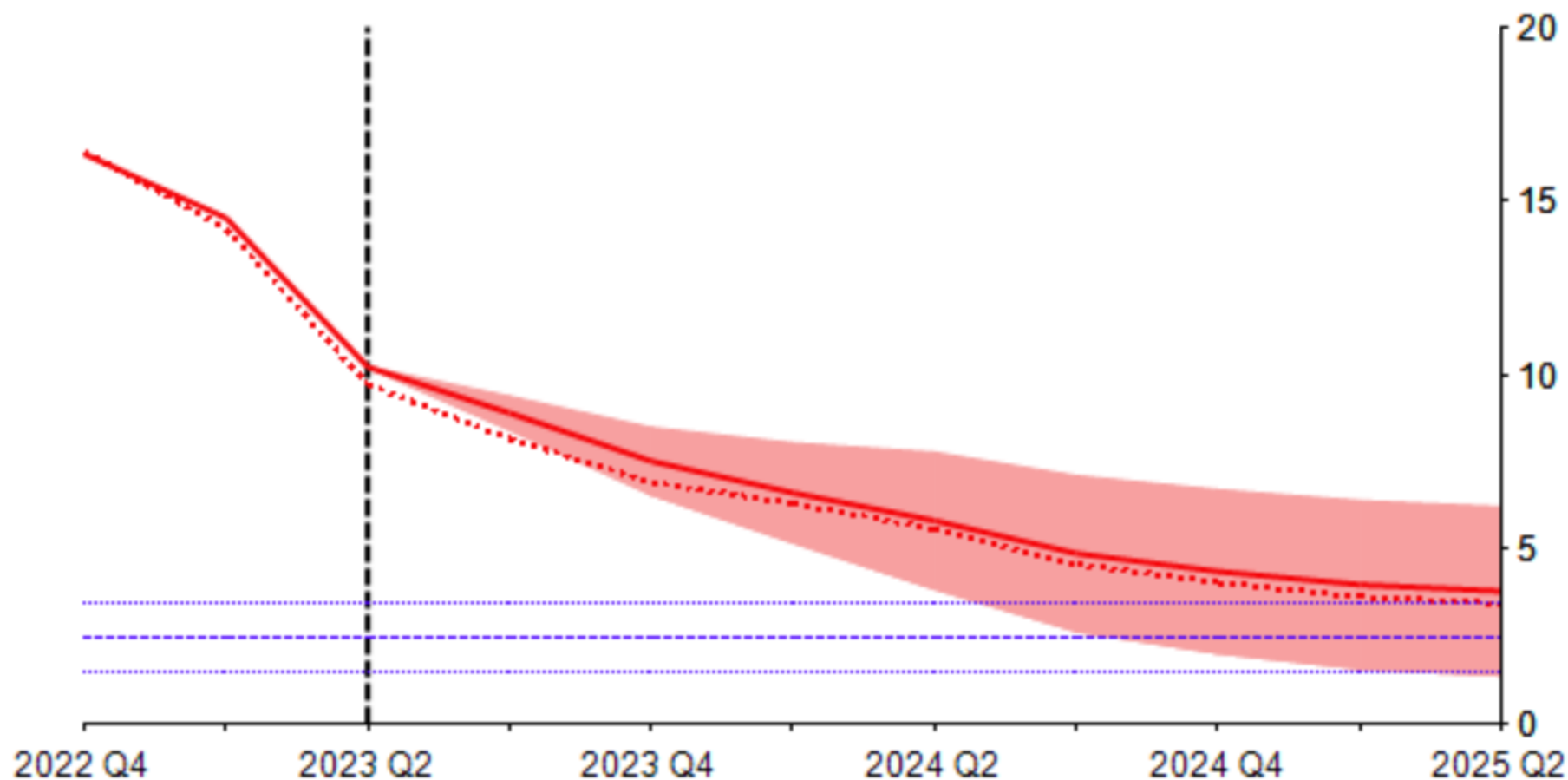


Market consensus expects a mild reacceleration for the EZ economy, yet growth will likely remain subdued and risks are also tilted to the downside -> EZ's mild recovery could help exports, translating into a minor boost for industry as well. Softening but still relatively tight labor conditions, minimum- and public wages hikes coupled with slowing inflation are expected to support households' real disposable incomes -> and consumption, yet households may remain cautious given a series of challenges and uncertainties on the external and domestic fronts. EU funds are expected to support investments next year as well. EU fund absorption remains essential for Romania's economy. Don't forget the fundamentals: labor multiplied by labor productivity defines long-term GDP, there is no free lunch.

Inflation perspectives: disinflation should continue, yet at a somewhat slower pace. Uncertainties (due to fiscal developments, the war in Ukraine, ECB's and the Fed's prospective monetary policy conduct etc.) are sizeable.

Inflation forecasts - as of August 2023

(YoY%)



High-inflation episodes in the US

(date of Peak Inflation = 0; monthly data)

Chart 1: Headline inflation (YoY %)

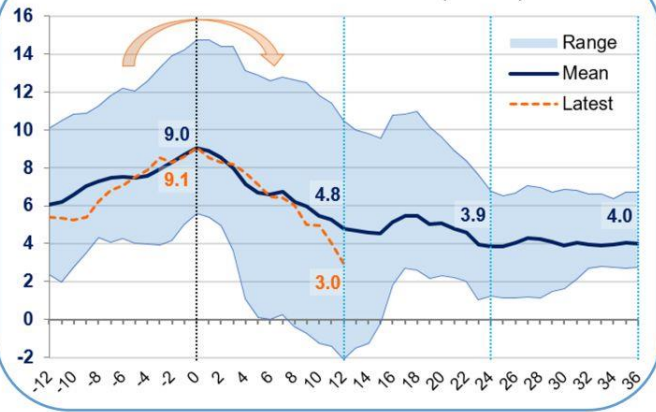


Chart 2: Core inflation (YoY %)

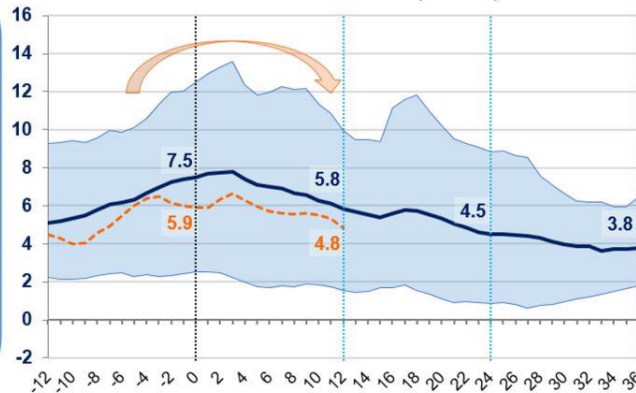


Chart 3: Fed funds rate (%)

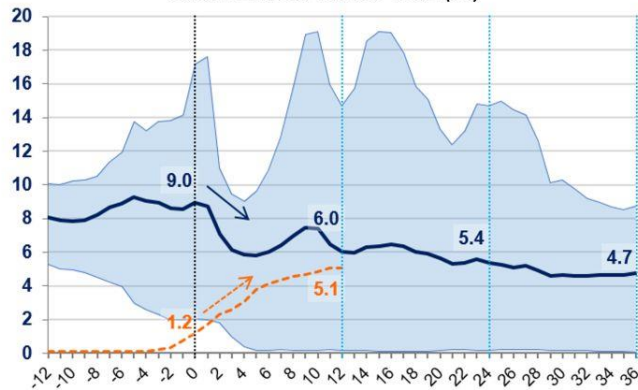
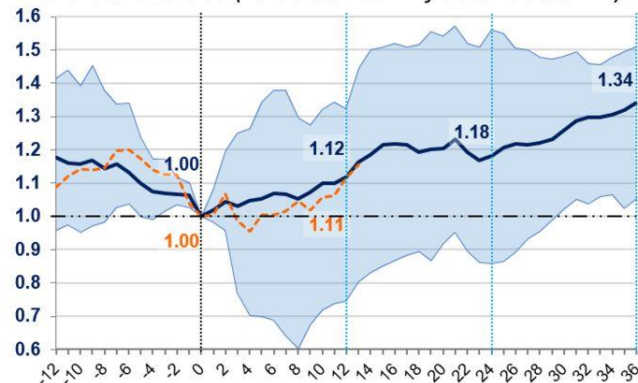


Chart 4: Frequency of recessions (%)



Chart 5: S&P500 (value at Peak Inflation dates = 1)



After the peak had been reached, headline inflation used to ease quickly (~4 percentage points), as Chart 1 points out. Among other things, this could be the result of strong base effects as well as a weak economy.

In the second year, however, the disinflation process frequently slows down as base effects faded out, while the economy may also start recovering.

Usually, inflation stabilises **in the third year**, although at a **relatively high level**. Bringing down the core indicator may take somewhat longer.

Long-term challenges:

- Economic blocs (geo-economic tensions, nearshoring)
- Green and digital transition
- AI (wheel & writing/accounting -> AI?)
- ...

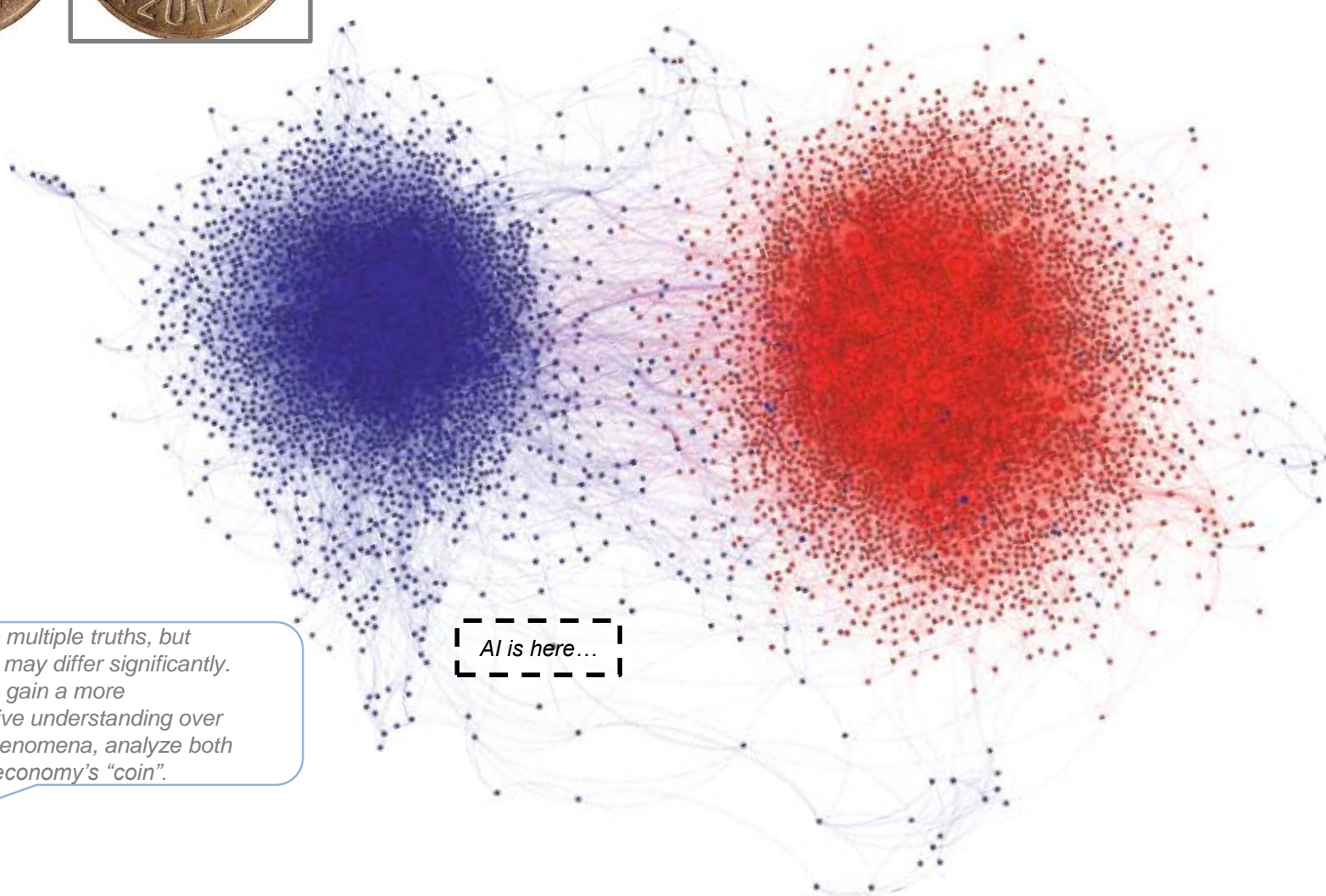
Note: Peak Inflation dates refer to December 1969, December 1974, March 1980, October 1990, July 2008 and June 2022; post-pandemic data is excluded from the mean and range calculations.

Sources: FRED, Refinitiv, author's calculation



"The Two Sides of the Coin..."

Visit NBR Museum for a special exhibition, more information available on: <https://www.bnro.ro/The-Two-Sides-of-the-Coin-Means-of-Exchange-%e2%80%93-Masterpieces-of-Art-26774.aspx>



There are no multiple truths, but perspectives may differ significantly. Therefore, to gain a more comprehensive understanding over economic phenomena, analyze both sides of the economy's "coin".

AI is here...

More analysis on:



The header for the National Bank of Romania LinkedIn profile features a background image of a classical building facade with the word "NATIONAL" visible. On the left is the BNR logo, a blue square with a white monogram. To the right of the logo is the company name "National Bank of Romania" and a bell icon for notifications.

 <https://www.linkedin.com/company/bnr/>

National Bank of Romania



The header for the Romanian Economic Monitor LinkedIn profile features a blue background with white text and a line graph. On the left is a small square logo with the text "Romanian Economic Monitor". To the right of the logo is the company name "Romanian Economic Monitor" and a bell icon for notifications.

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Thank you!