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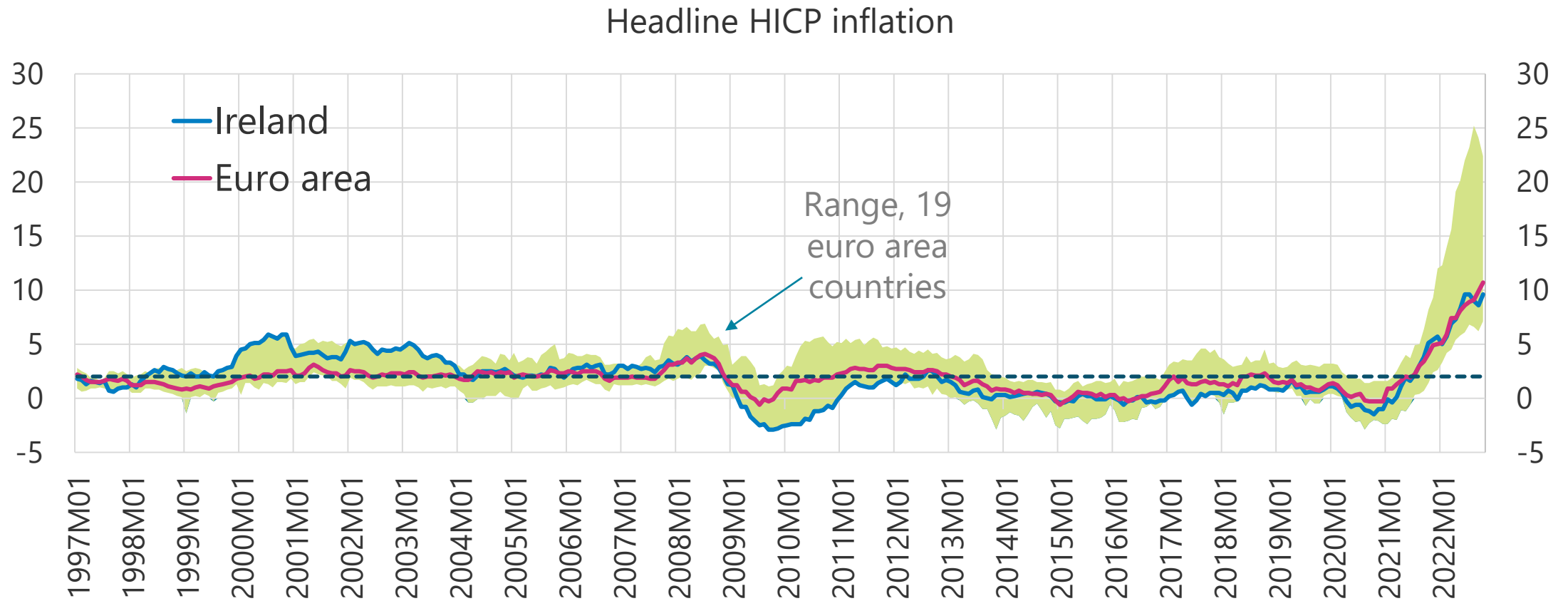
Inflation & the labour market

Sharon Donnery

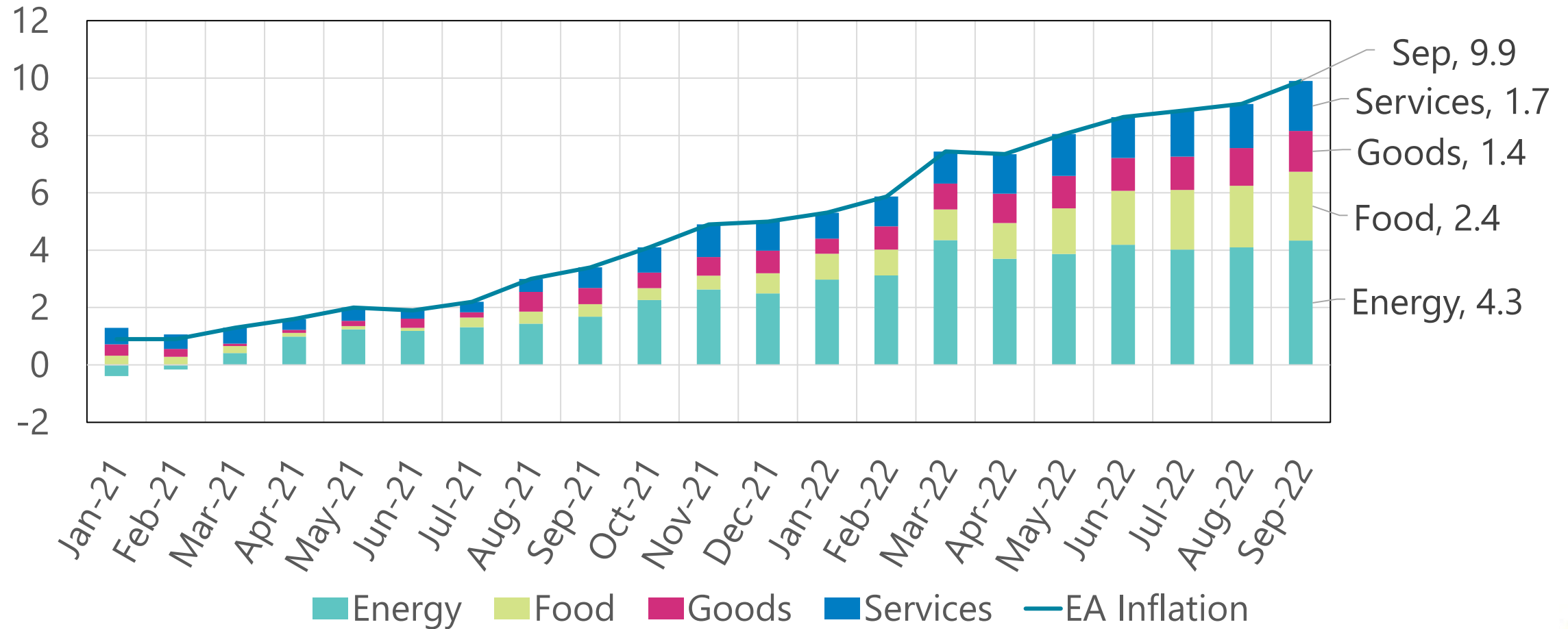
Donal Nevin Lecture, 10 November 2022

Slides

Headline inflation far above target in 2022...



With energy accounting for around half of euro area inflation...



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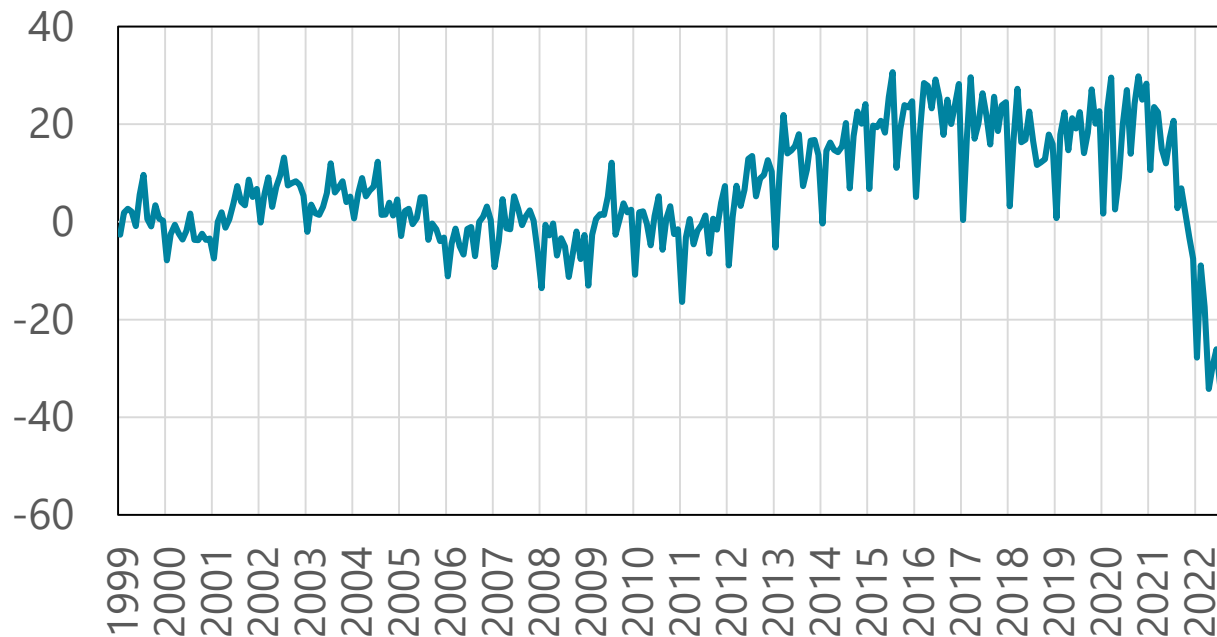
... but other components also far above long-term average

<i>Euro area</i>	Energy	Food	Goods	Services	Total
<i>Share of basket (2022, per cent)</i>	10.9	20.9	26.5	41.7	100.0
Pre-2022 average	3.2	2.1	0.6	1.8	1.6
2019 Average	1.2	1.8	0.3	1.5	1.2
Sep 2022	40.7	11.8	5.5	4.3	8.9
<i>Ireland</i>	Energy	Food	Goods	Services	Total
<i>Share of basket (2022, per cent)</i>	8.9	18.1	23.0	50.0	100.0
Pre-2022 average	3.7	1.6	-2.1	2.9	1.7
2019 Average	1.2	0.5	-2.7	2.4	0.9
Sep 2022	38.1	9.0	5.0	5.2	9.6

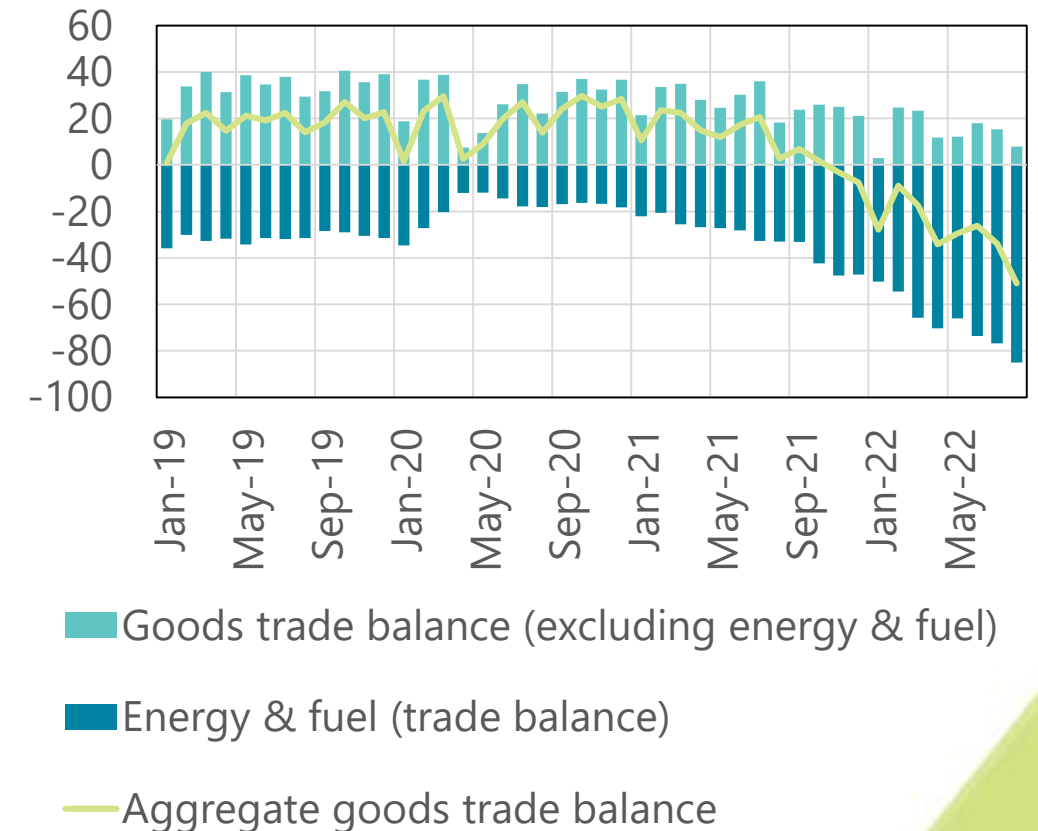


Energy price increases contribute to an unprecedented terms-of-trade shock that is difficult to fully offset in the short-term

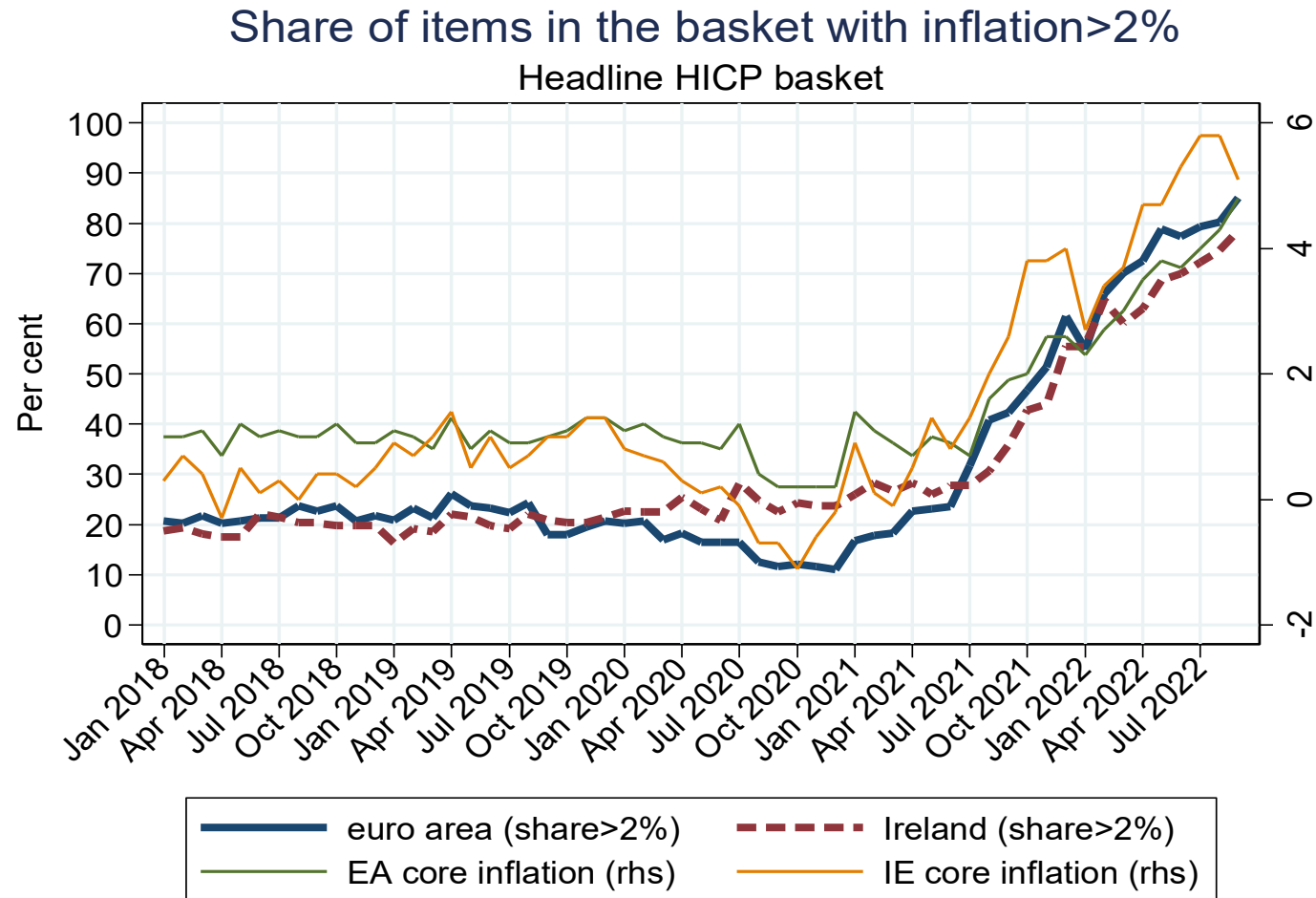
Trade balance in goods (aggregate € billions)



Energy component of goods and trade balance (€ billion)



Price rises have broadened... pushing up *underlying* inflation



Source: Eurostat

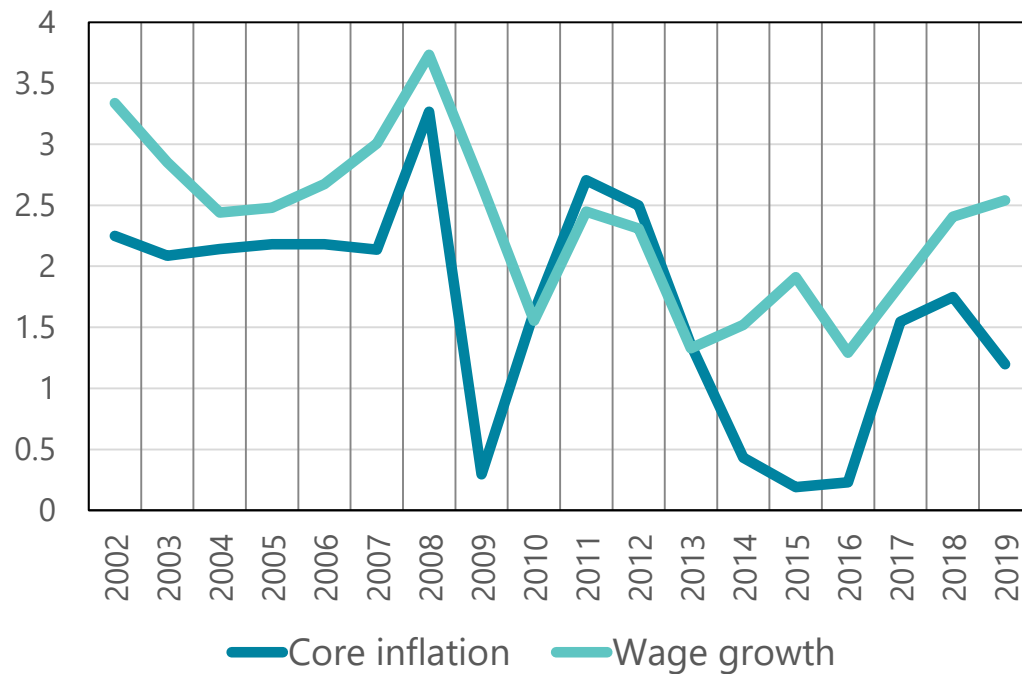


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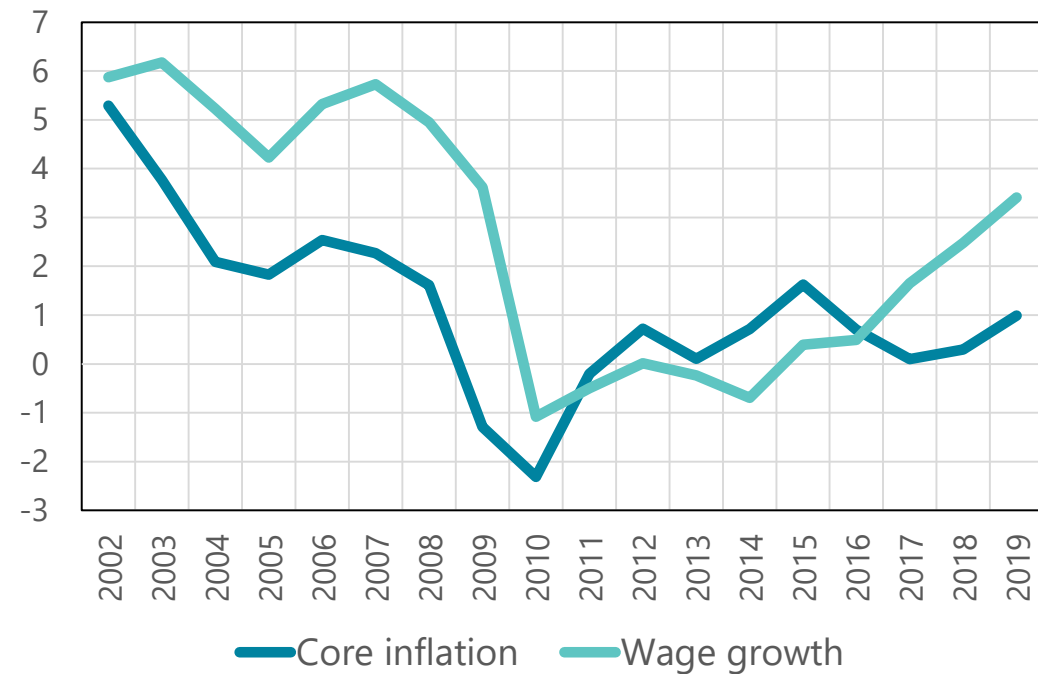
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Co-movement of inflation and wages

Core inflation and wage growth (euro area)



Core inflation and wage growth (Ireland)



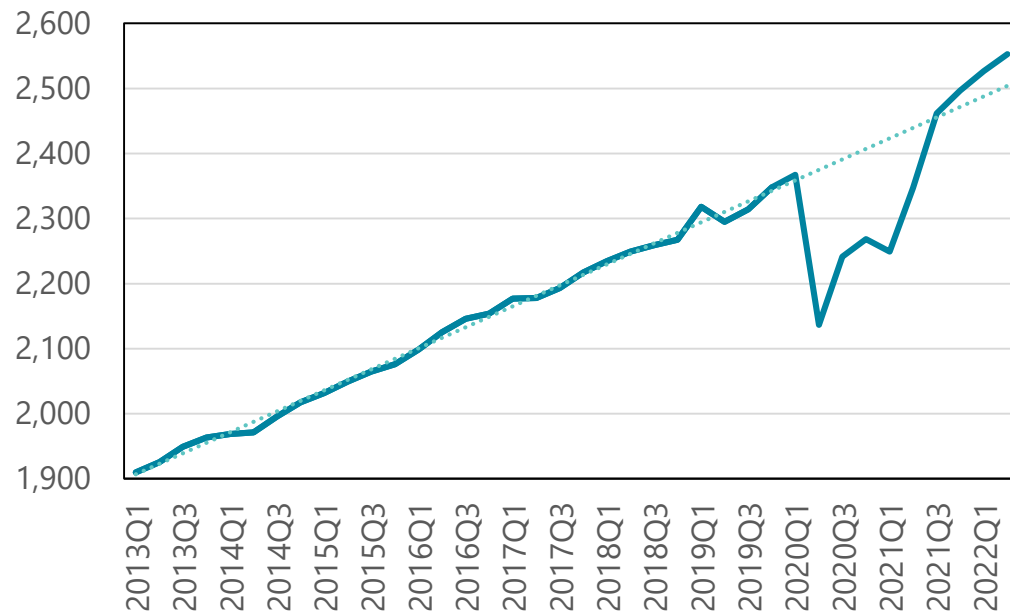
Labour market



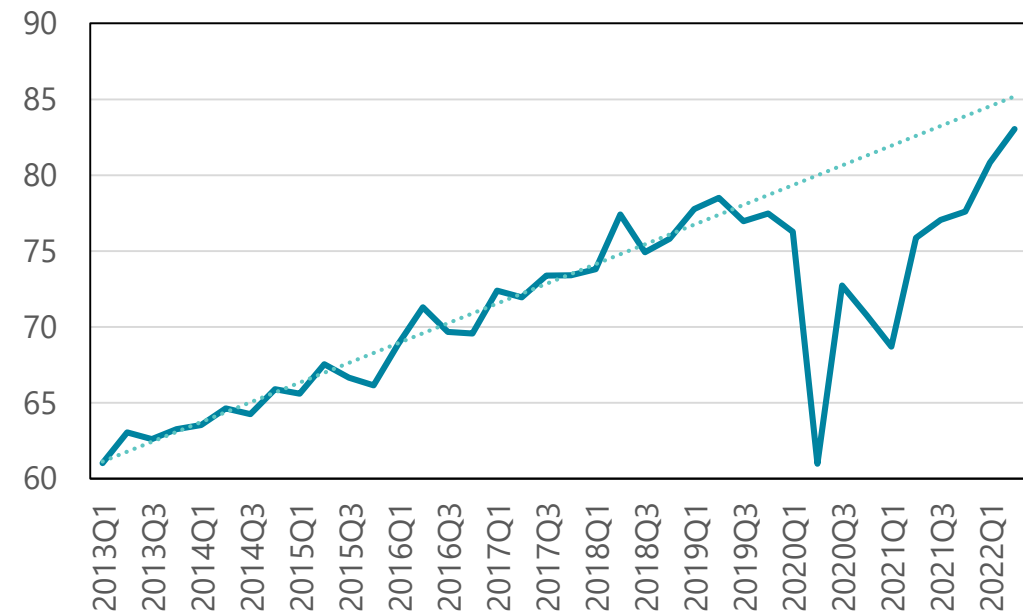
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A record expansion of employment interrupted by the pandemic

Employment (15-89 years, Ireland '000s)



Actual hours worked per week (millions)



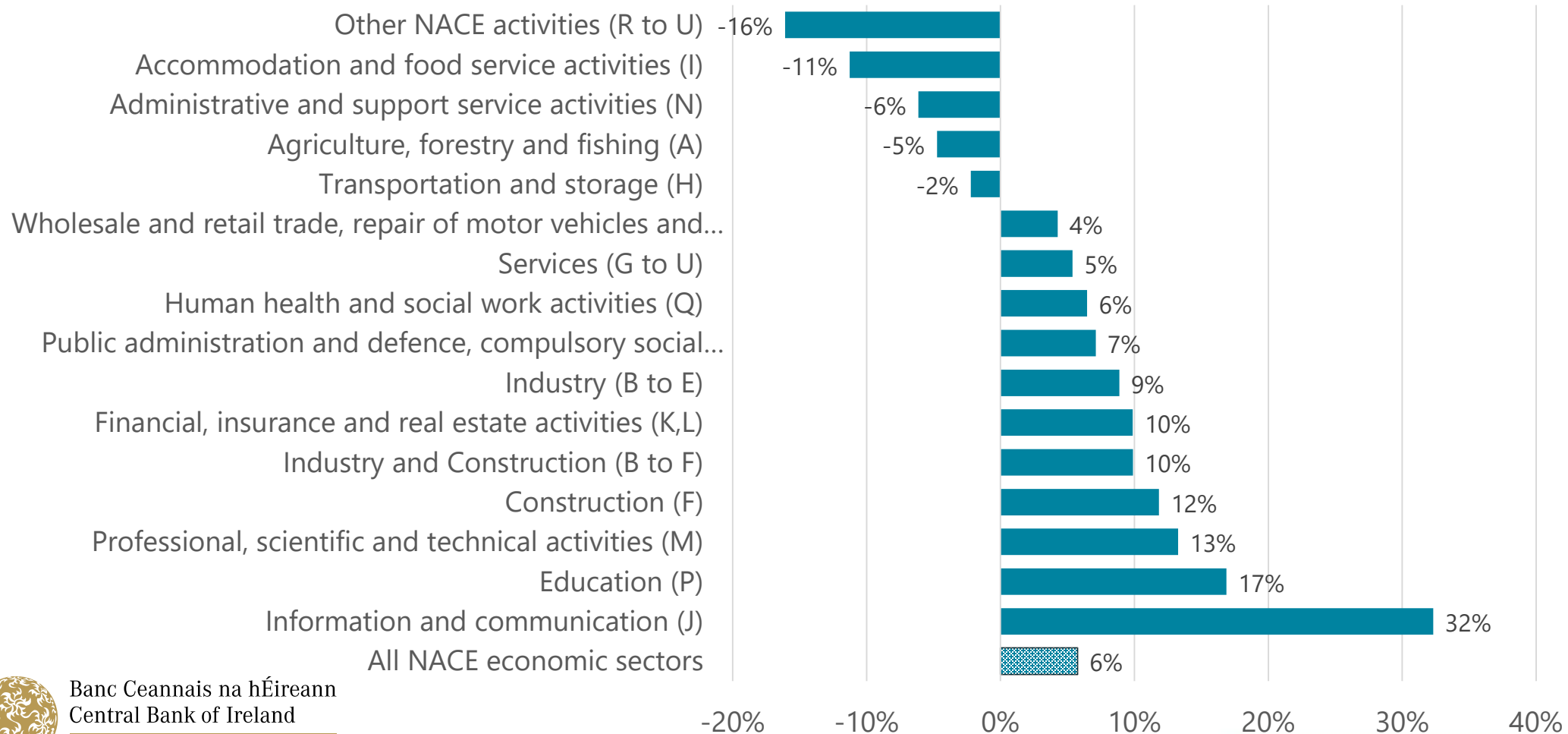
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Source: CSO, the employment series is seasonally adjusted (Table QLF03). The aggregate hours series is not seasonally adjusted (Table QLF36). Dotted line is the 2013-2019 trend.

Some contact-intensive sectors lagging in recovery

Change actual hours worked: 2019 Q2 – 2022 Q2

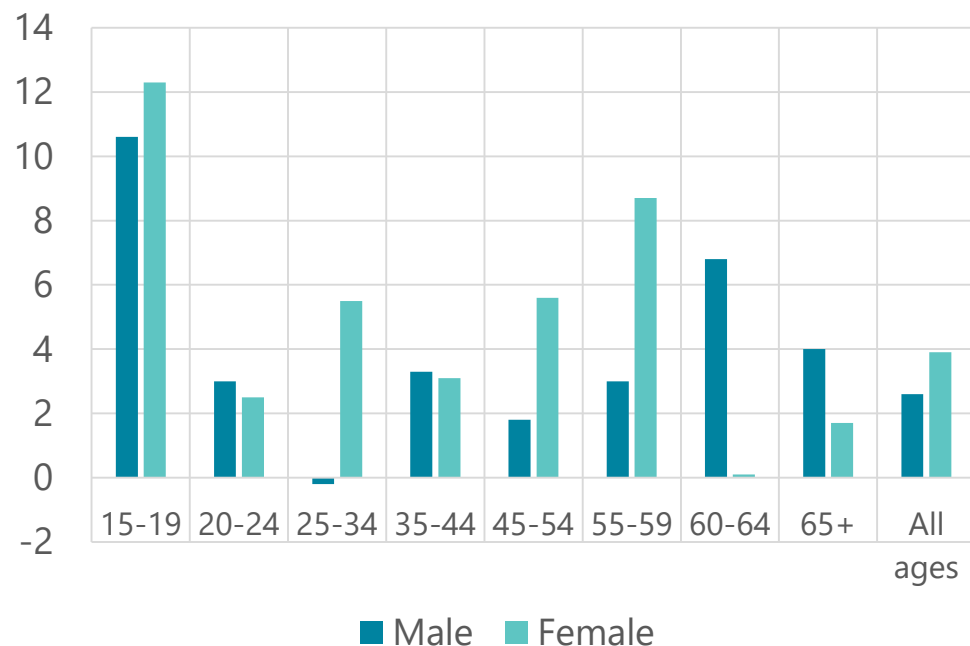


Source: CSO. Table QLF36.

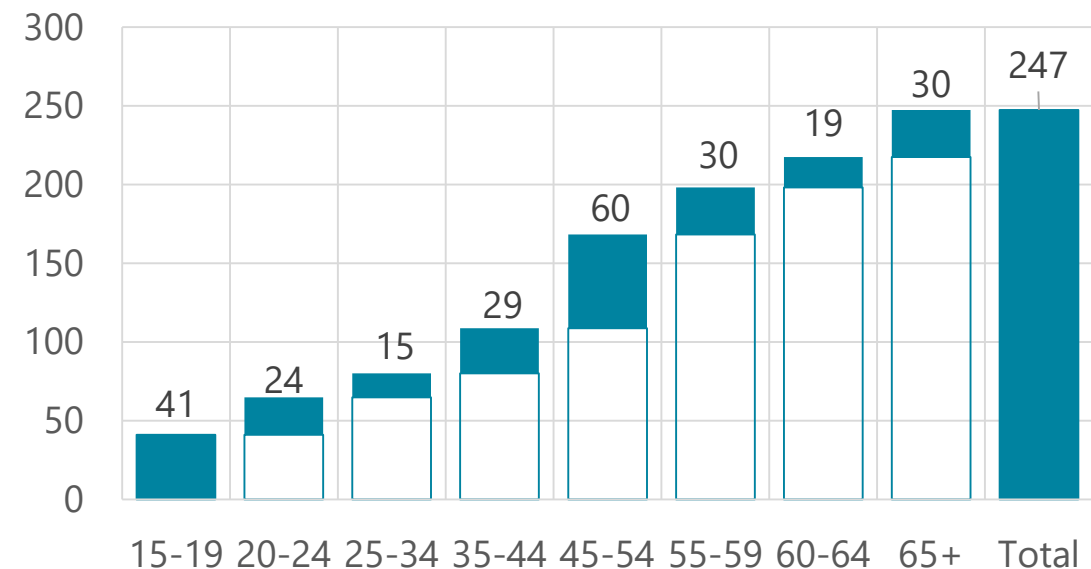


With migration temporarily restricted, post-pandemic growth supported by large expansion of domestic labour force

Change in labour force participation rate, 2019Q2-2022Q2 (%)



Change in employment ('000s) 2019Q2-2022Q2



Similar euro area patterns: employment rates up => unemployment falling and participation increasing

Employment rate (15-64, selected countries)

	2020Q1	2022Q1	Change
Euro area	67.4	68.9	1.5
Ireland	69.8	72.8	3.0
Germany*	77.0	77.0	0.0
Italy	58.4	59.1	0.7
Spain	62.6	63.6	1.0
France	65.7	67.5	1.8
Netherlands	78.4	81.2	2.8
UK**	76.3	75.7	-0.7
US**	71.79	71.3	-0.5

Source: Eurostat; (*) the second period for Germany is 2021Q4. (**) OECD for UK and US employment rates

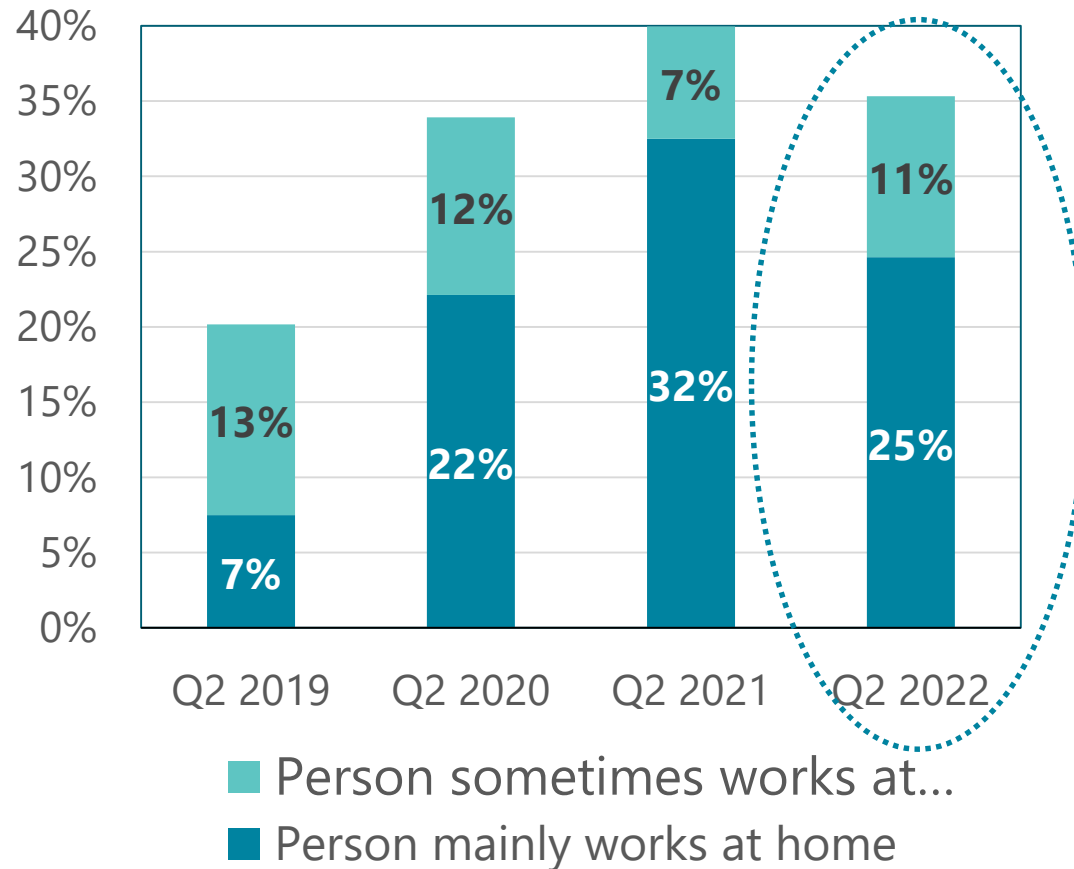
Employment rate: euro area

	2019Q1	2021Q4	Change
15-19	15.7	16.6	0.9
20-24	50.3	52.9	2.6
25-29	72.6	75.0	2.4
30-34	78.6	80.2	1.6
35-39	80.4	81.8	1.4
40-44	81.4	82.8	1.4
45-49	81.0	82.3	1.3
50-54	79.1	80.5	1.4
55-59	72.7	74.1	1.4
60-64	46.0	48.6	2.6

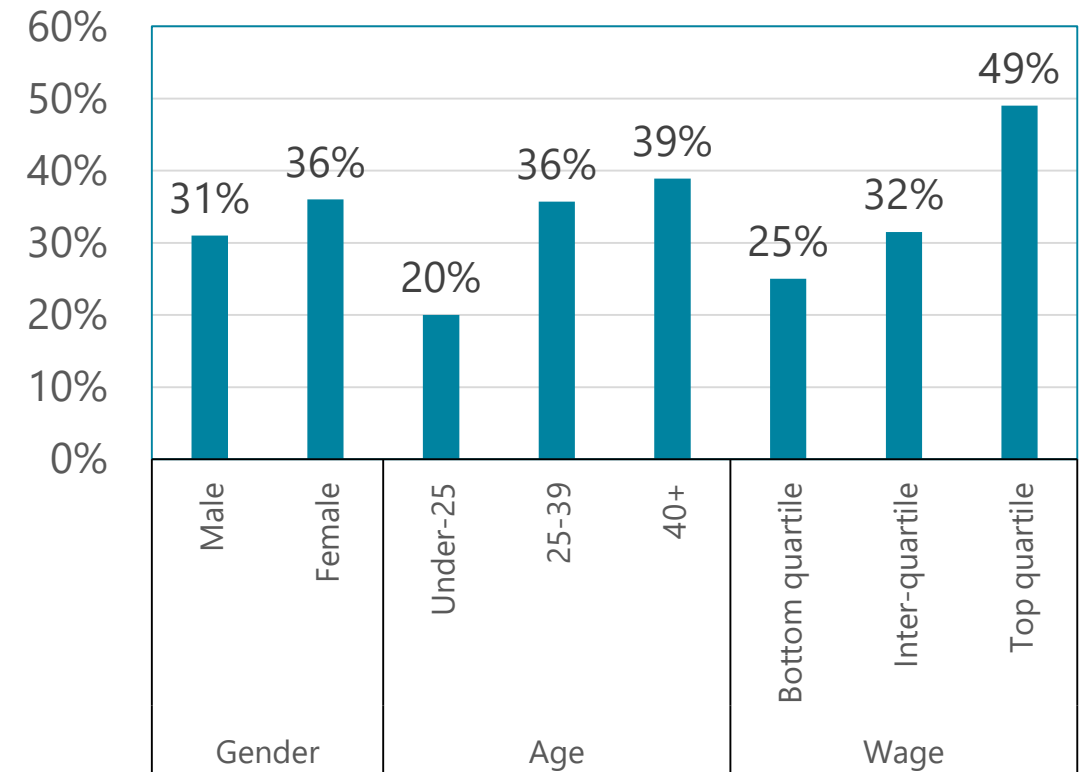
Source: Eurostat



Working from home here to stay?



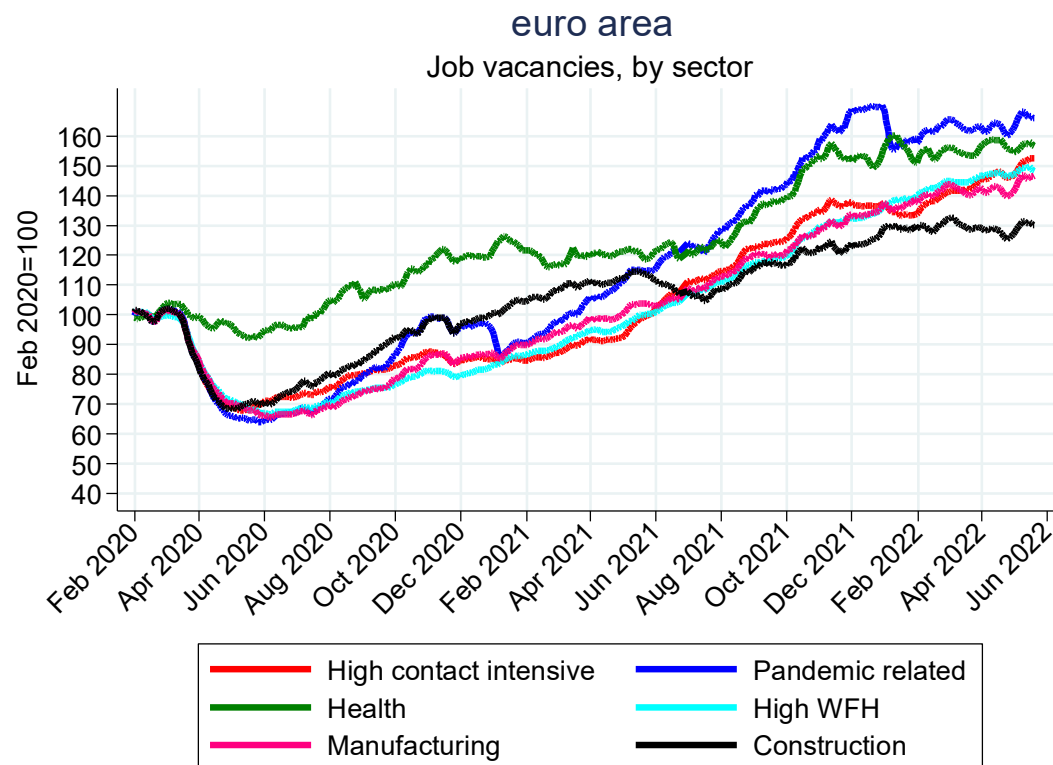
Any work from home (% , 2022Q1)



Source: Analysis of CSO-LFS for Q1 2022. These are *conditional* means and should be taken as *indicative* of differences in the propensity to work from home by characteristic. *Gender* controls for wage, age, sector, occupation and region; *Age* controls for sector and region only; *Wage* controls for age, sector, occupation and region.

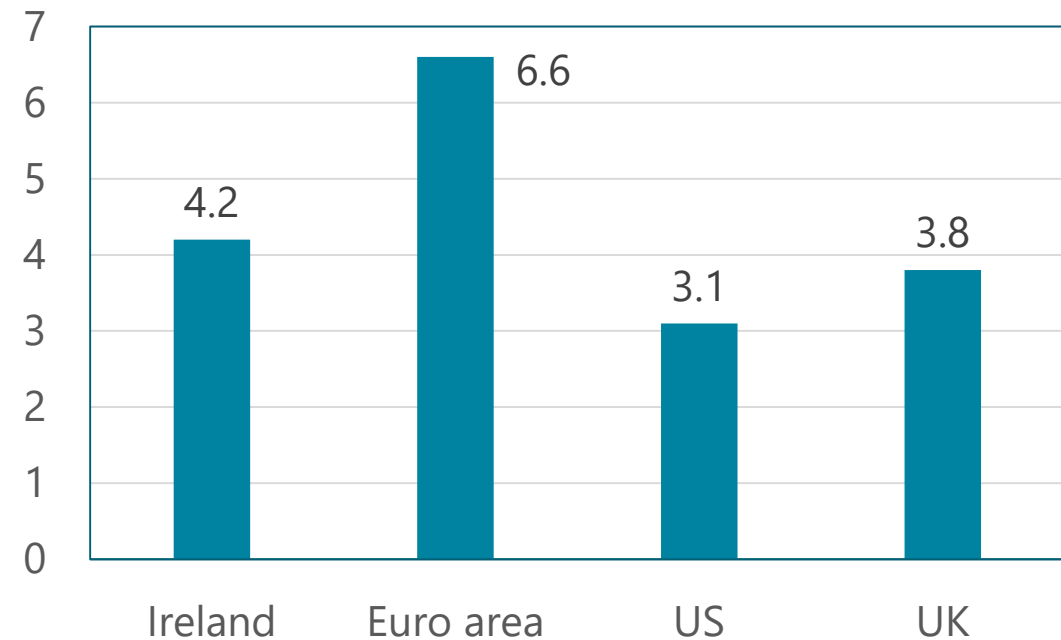


Tightness: despite uncertain outlook, job openings remain high, unemployment is low



Source: Indeed data to 12 August

Unemployment rate
(per cent, June/July 2022)



Source: National statistics bodies. Ireland and US is July 2022. EA and UK is June 2022.



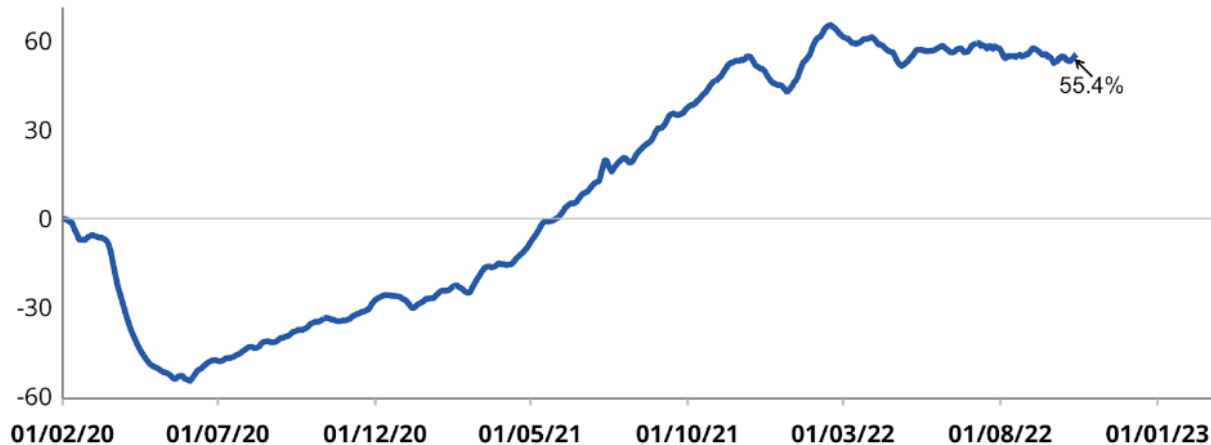
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Demand for new hires remains strong in Ireland – but tech weaker, also reflecting a global shift in demand in that sector

Job postings on Indeed, Ireland

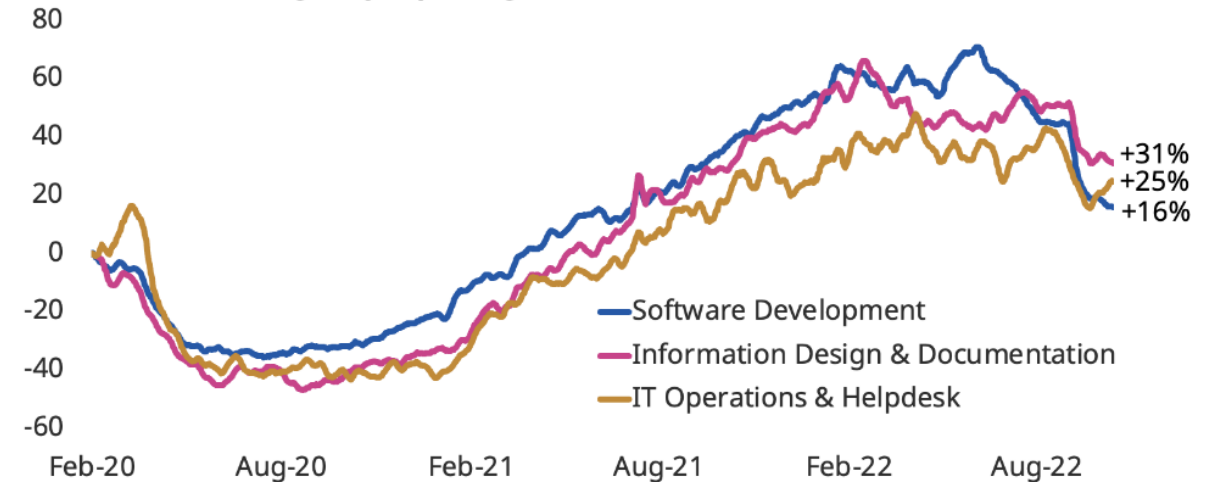
% change in job postings since 01 Feb 2020, seasonally adjusted, to 14 Oct 2022



Source: Indeed

Tech categories have slowed

% change in job postings since 1 Feb 2020, to 14 October 2022



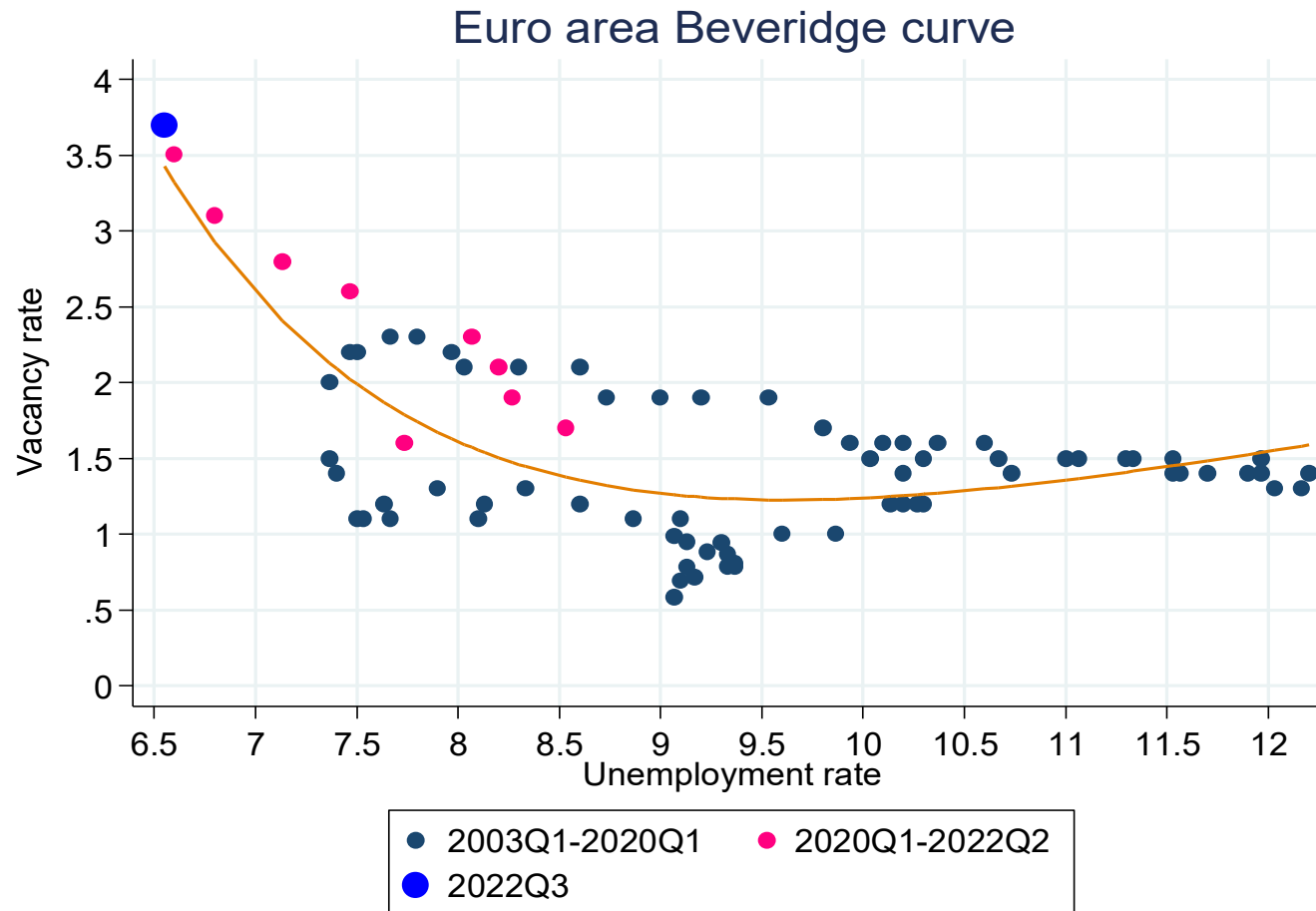
Source: Indeed. Seasonally adjusted data.



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Source: Indeed data through 14 October. See [Kennedy \(21 October 2022\)](#)

More job vacancies, lower unemployment => moving up the Beveridge curve....



Source: Own calculations using Eurostat data on unemployment and vacancy rates through to Q1 2022, dragged forward to Q3 2022 using Indeed data on job openings growth.



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Pre-pandemic: average *real* wage growth consistent with 1% productivity growth

Nominal wage growth and HICP inflation
(Ireland)



Nominal wage growth projections

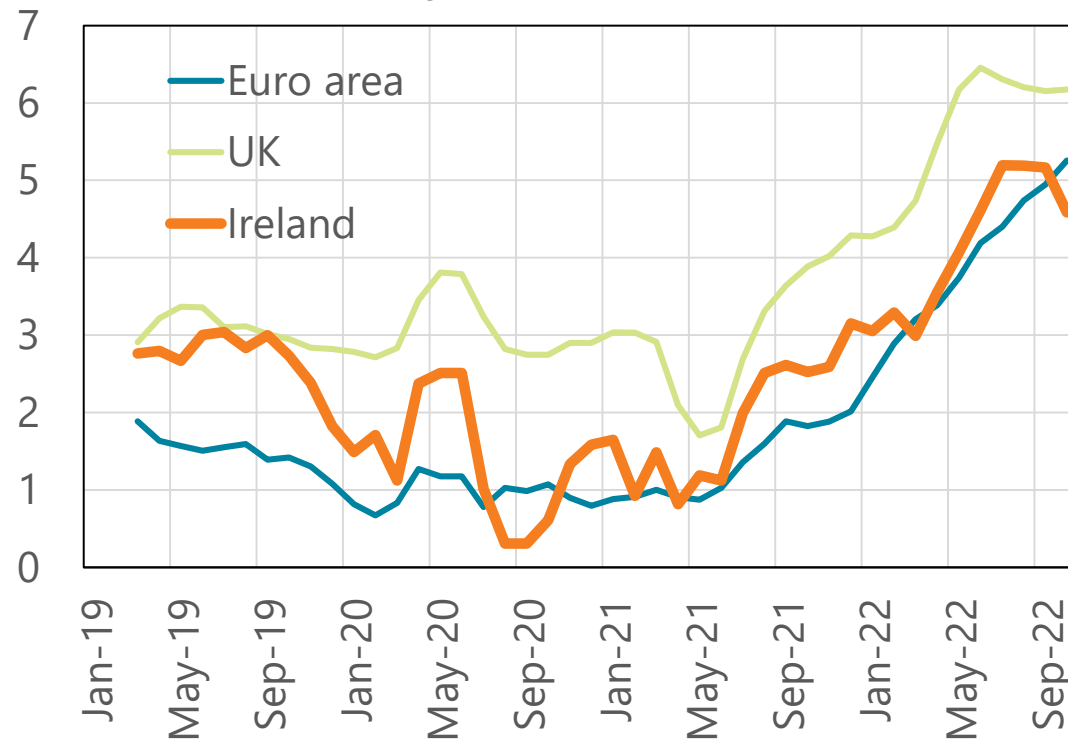
	2022	2023	2024
Ireland	3.8%	5.8%	4.9%
Euro area	4.0%	4.8%	4.0%

Source: Projected growth in nominal *compensation per employee*. Central Bank of Ireland Quarterly Bulletin 4 2022; ECB September 2022 Macroeconomic Projections

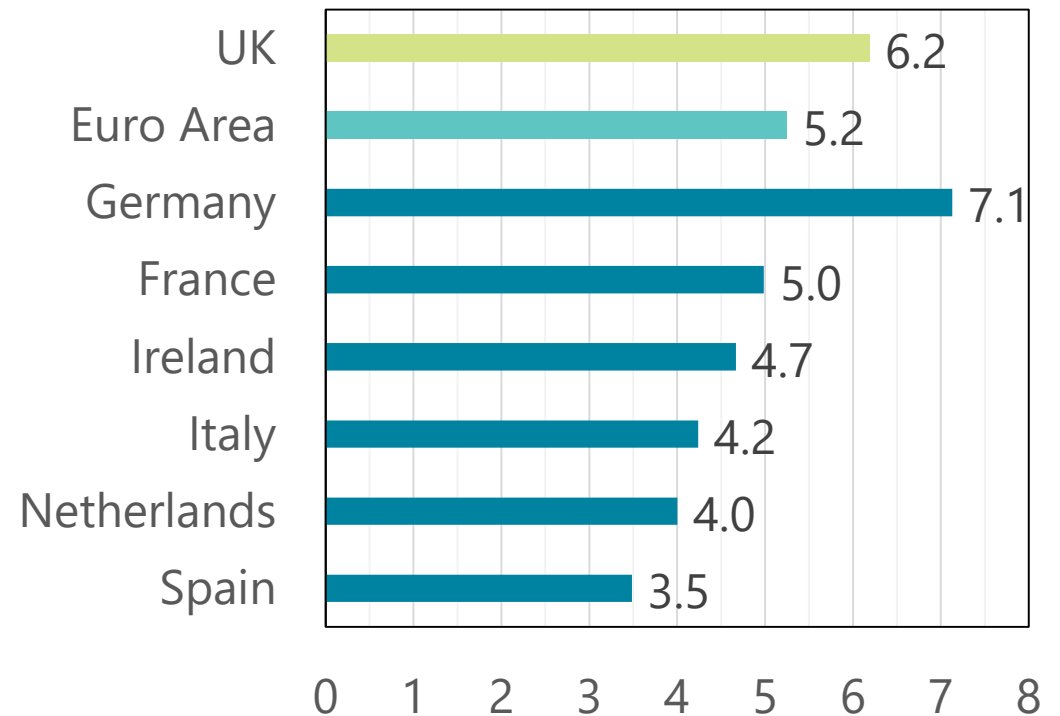


Wage growth tracker – using job ads on *Indeed*

Annual growth in posted wages in
job ads (%)

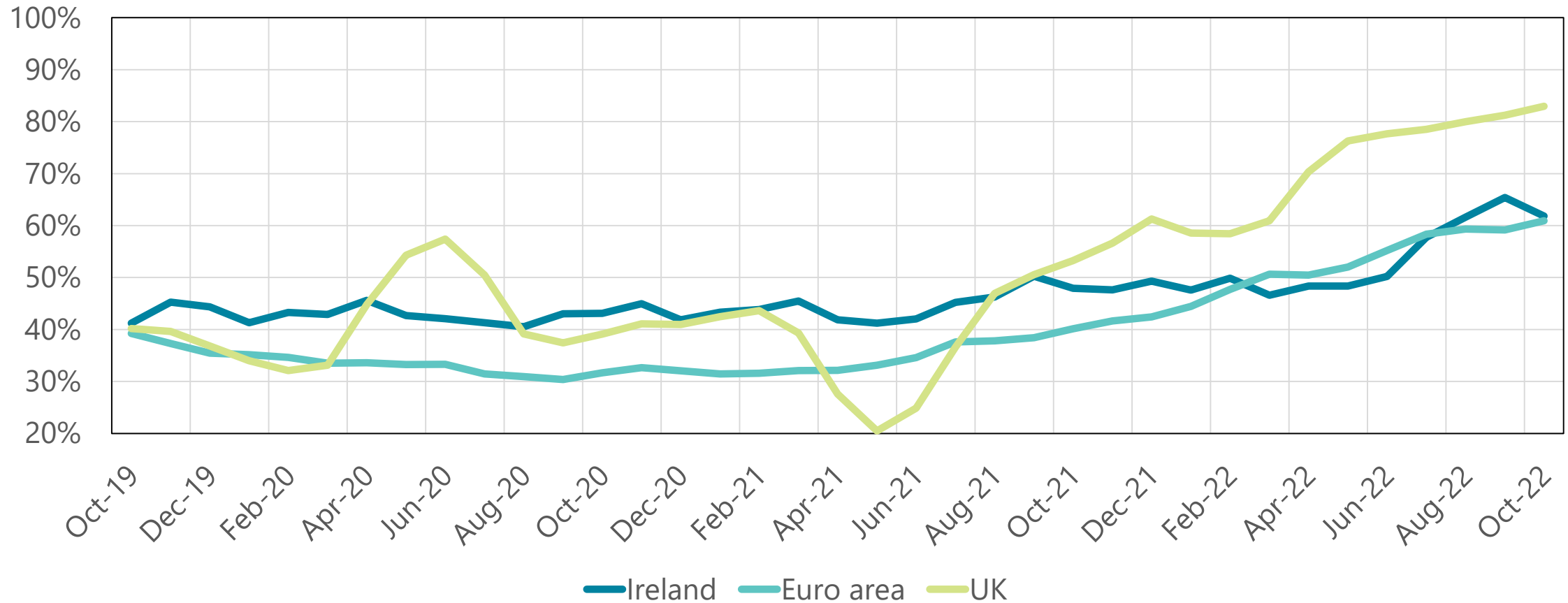


Growth in posted wages
(October 2022, %)



Upward shift in posted wage growth is increasingly broad-based

% occupations with posted wage growth > 3%



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Source: Analysis of wages posted in job ads on *Indeed*. The figure shows the share of 54 narrow occupational categories in the data where annual growth in posted wages exceeds 3%. See Adrjan & Lydon (2022, forthcoming).

Looking ahead...



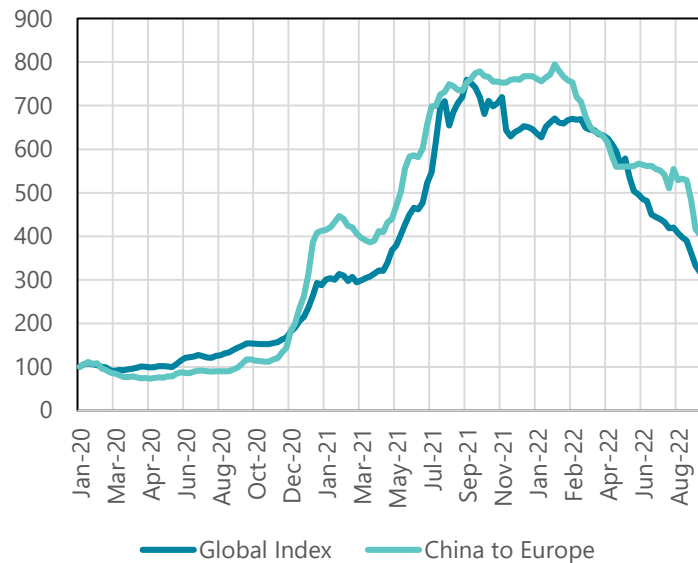
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Supply chain pressures are easing...

Shipping price indices

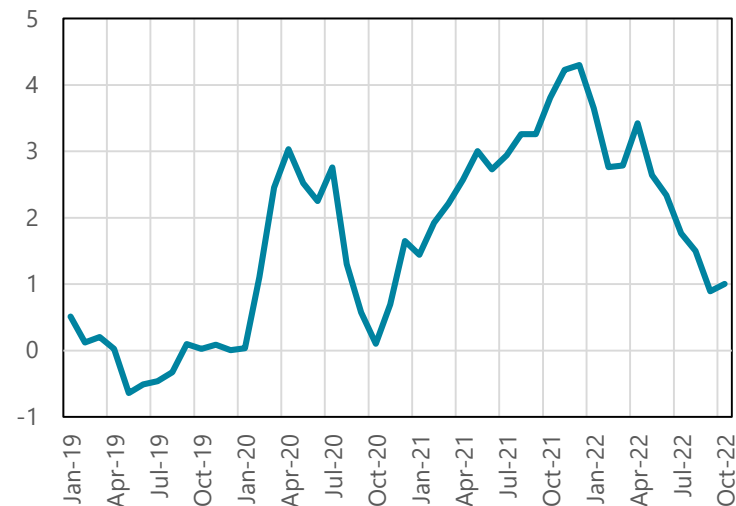
Index, Jan 2020 = 100



Source: FREIGHTOS via Bloomberg

GSCPI (global supply chain index)

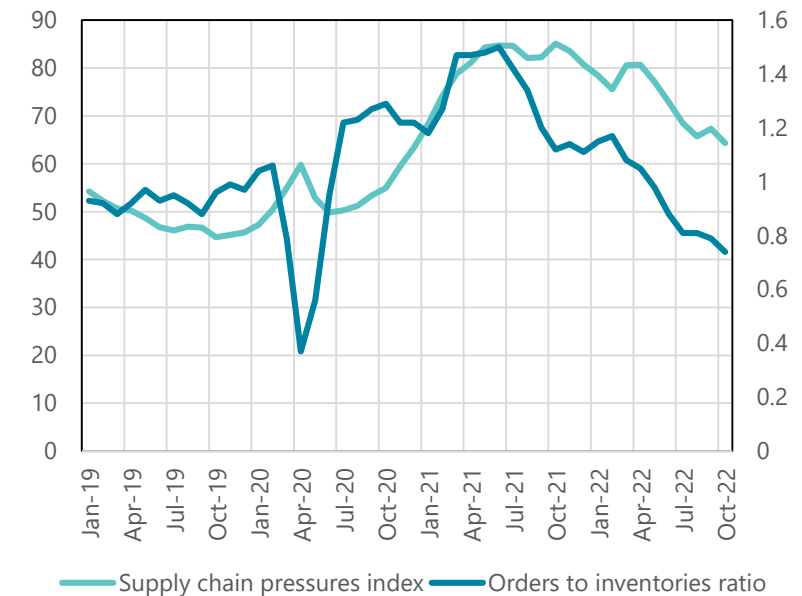
Diffusion index



Source: NYFED

Inventories and supply chain pressures

Diffusion index, ratio



Source: S&P Global

Notes: supply chain pressures captures changes in delivery times and input prices.

Order to inventory ratio is new orders over stock of finished goods

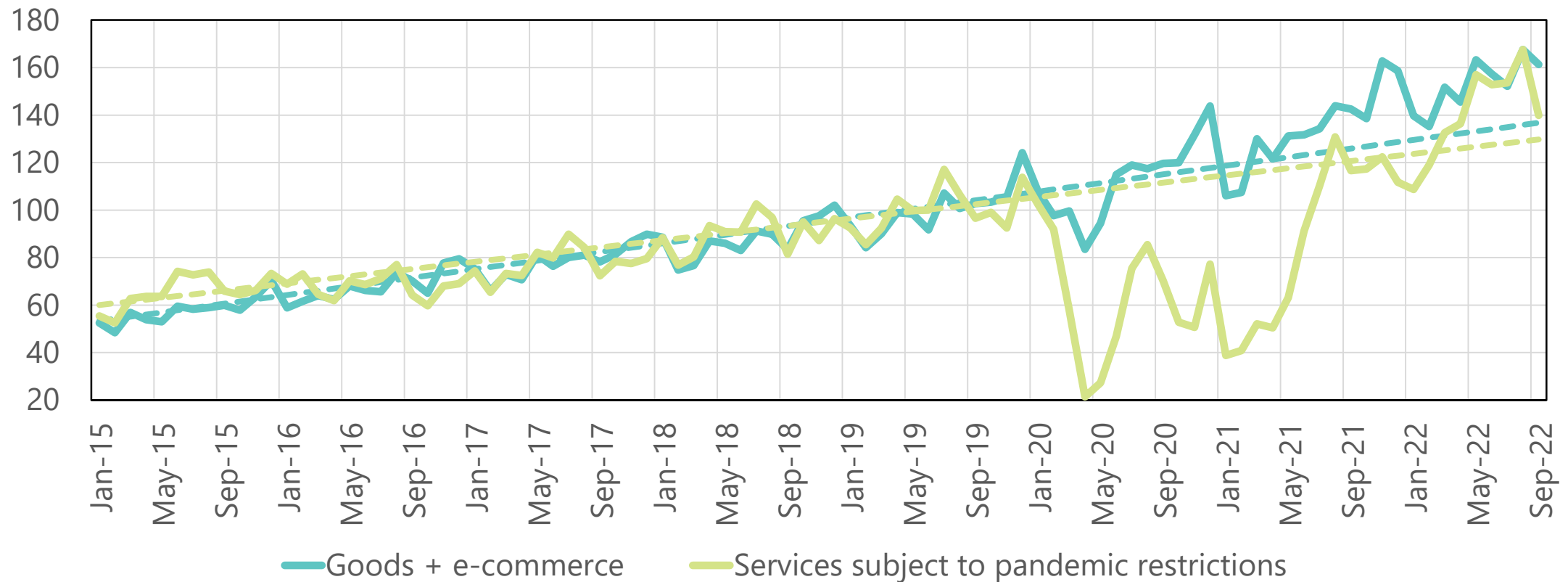


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Card spending on pandemic affected services rebounds in 2022

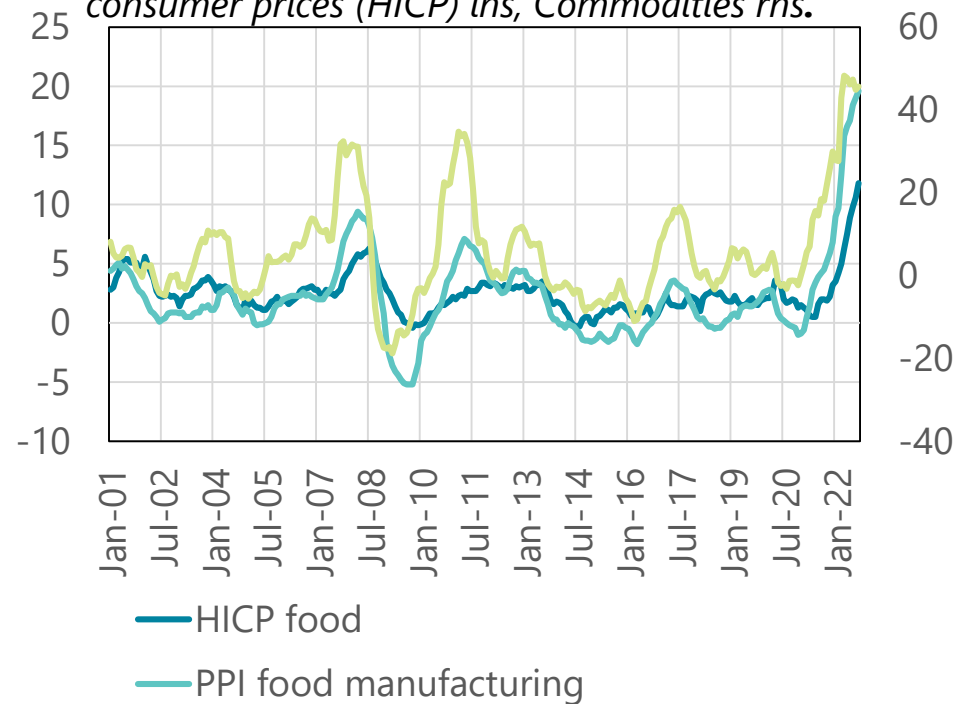
Card spending (2019=100, nominal)



Higher food commodity price pressures have eased, but remain at a high level

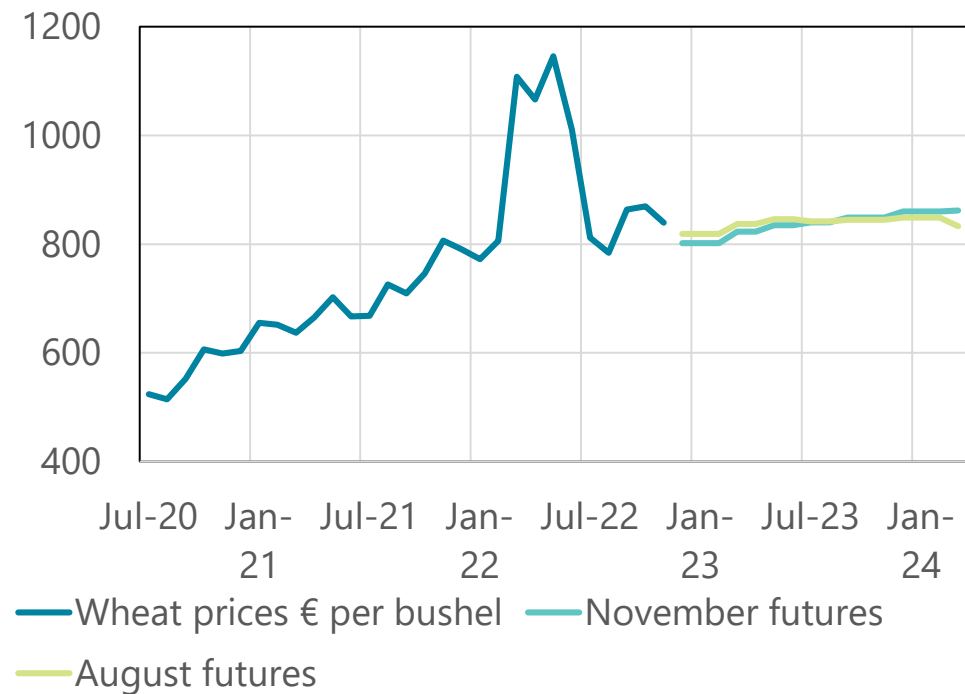
Commodity, producer and consumer prices (HICP food)

Year on year growth (%). Producer Price Index (PPI) and consumer prices (HICP) lhs, Commodities rhs.



Wheat futures

€ per bushel



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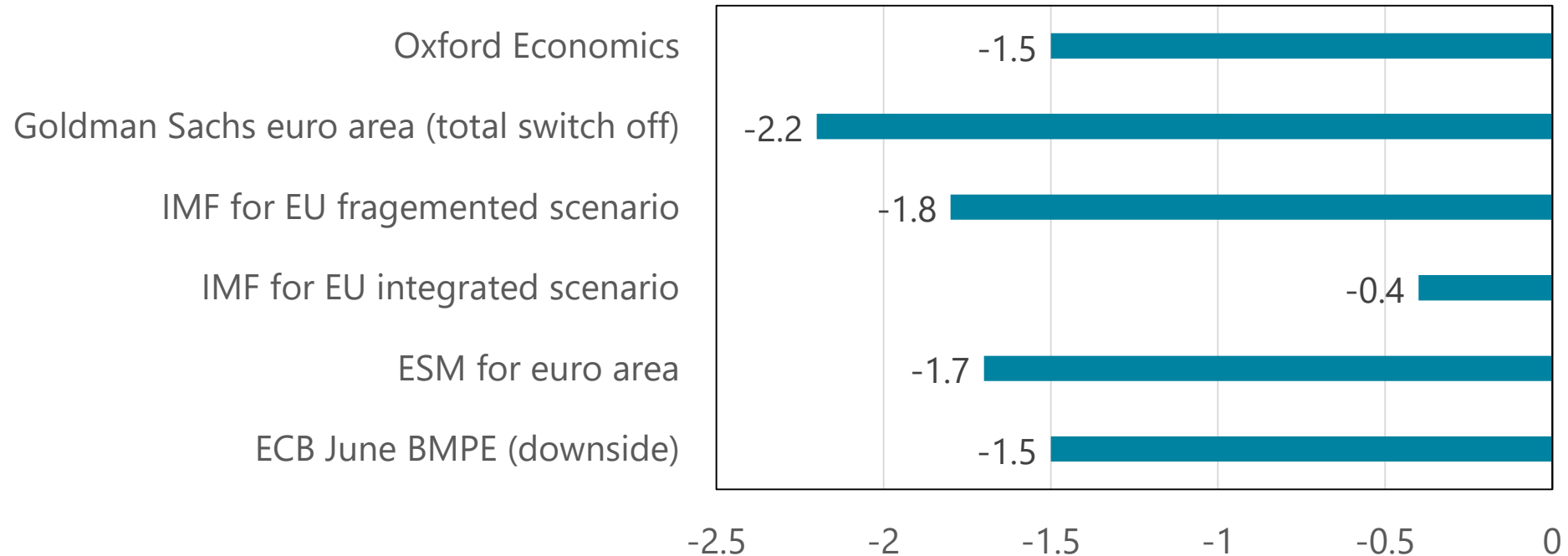
Source: Eurostat, ECB

Source: Bloomberg

Gas shutdown scenarios

Estimates of effect of Russian gas shut off on GDP growth

Percentage points



Source: ESM, IMF, Goldman Sachs, Oxford Economics

Notes: All scenarios are relative to baseline, which for the ECB's June 2022 projections for 2023 and 2024 are for annual GDP growth of 2.5% on average.

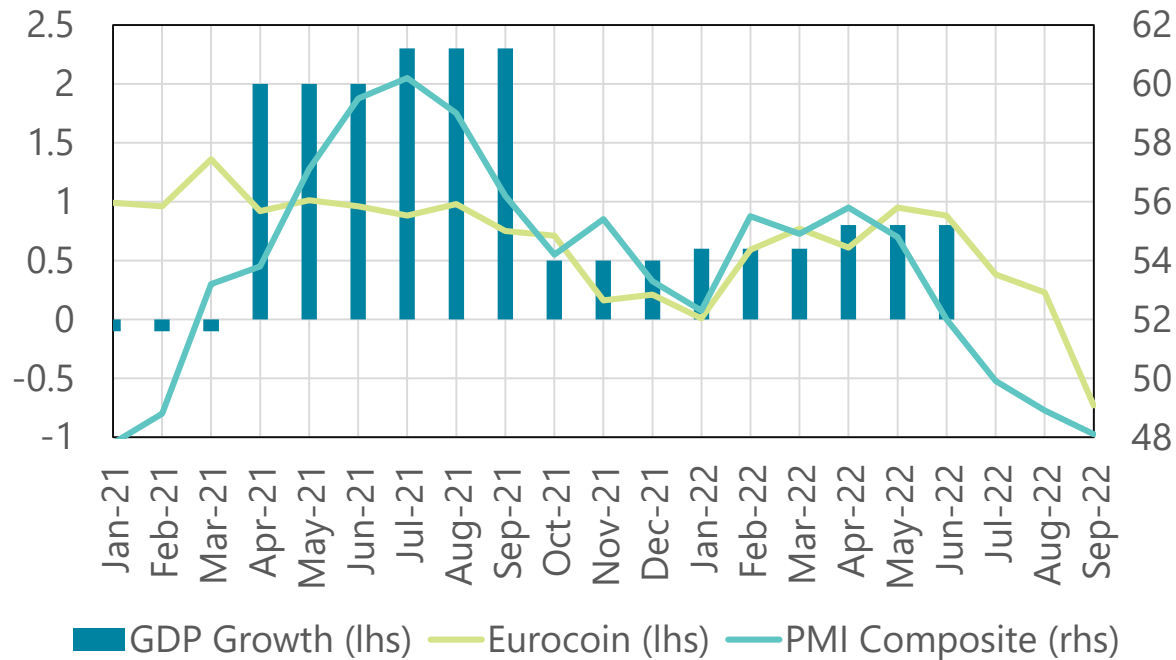


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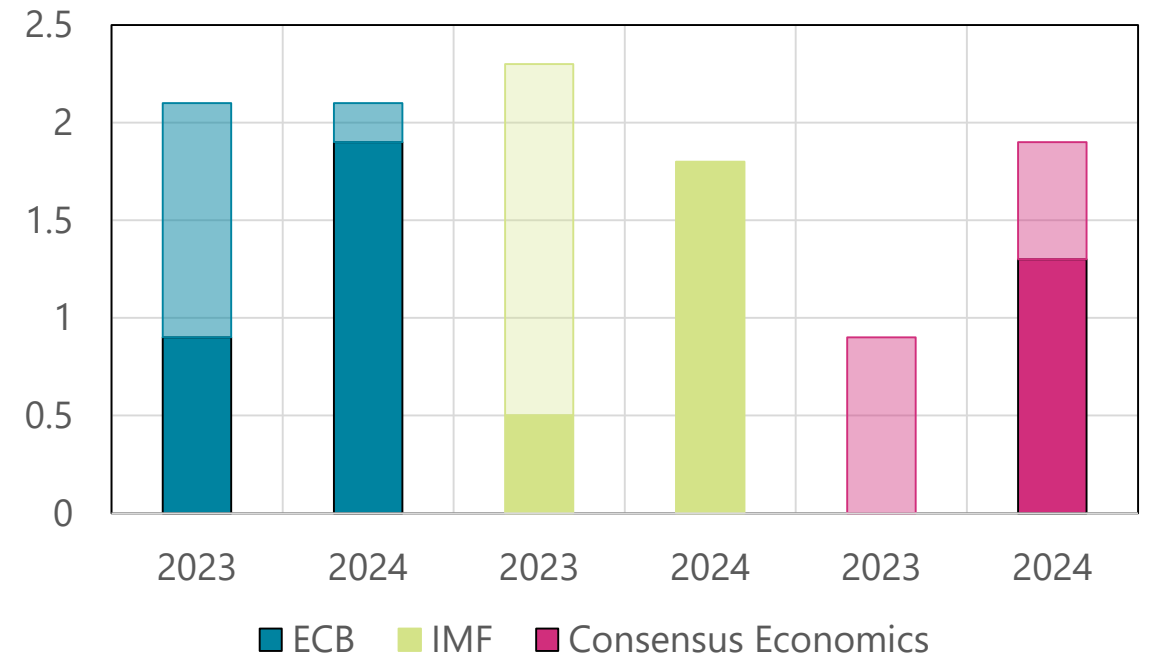
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The economic outlook has deteriorated

Euro area economic activity



Euro area growth forecasts



Source: Eurostat, S&P Global and CEPR

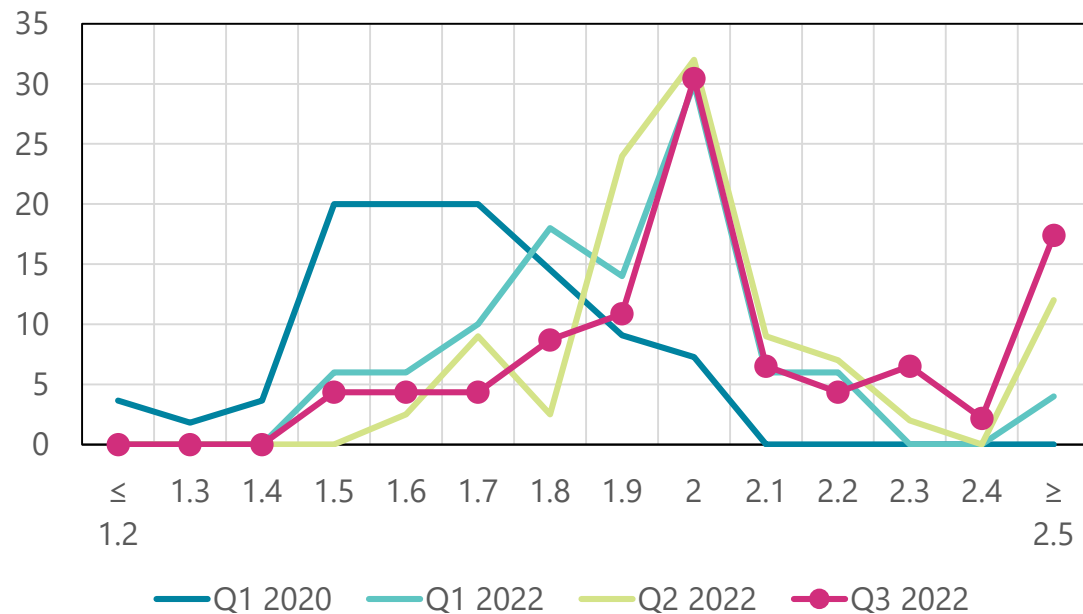


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Consumer and market expectations have drifted up with inflation

Survey of professional forecasters (expectations)

5-years ahead (*Share in each bucket*
%)

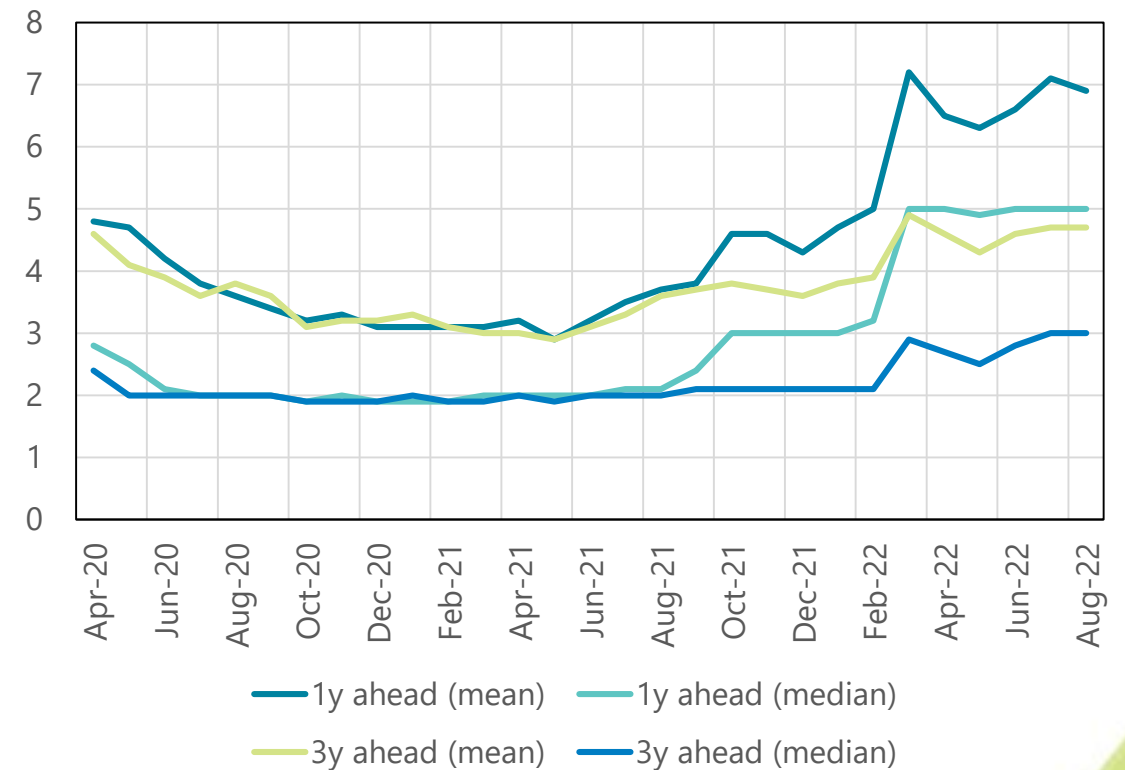


Source: ECB



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Consumers' inflation expectations



Source: ECB Consumer Expectations Survey (CES)