

EU housing market surveillance in the Commission

Recent trends in the real estate market NBP and SGH, Warsaw, 30 November 2023

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Disclaimer: The views are of the author and not necessary of the European Commission.

Outline

I. Recap of COMM macro surveillance

II. Housing in COMM macro surveillance

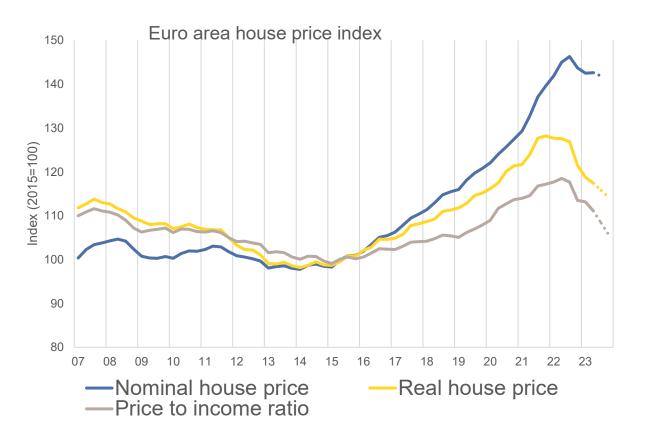
III. Illustration of surveillance tools with latest data

IV. Policy levers

- V. Conclusions
- VI. Resources



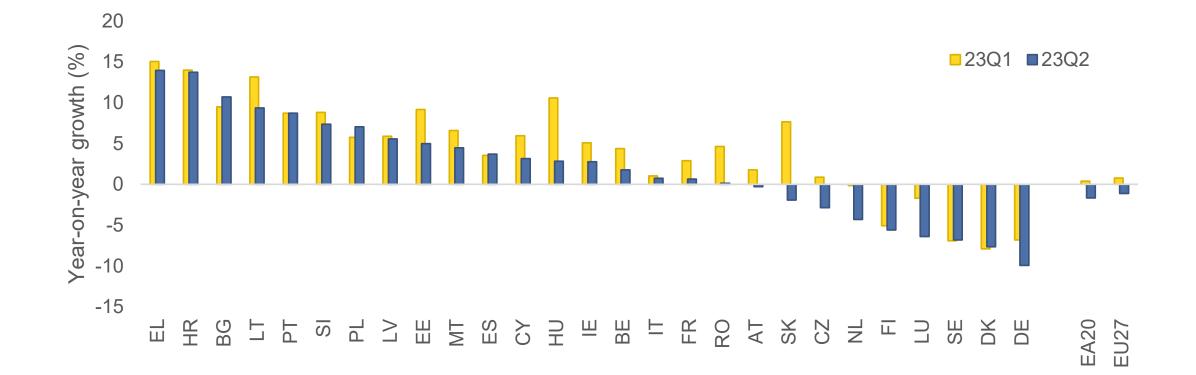
Drop of house prices...after period of strong increase...especially in real terms



- In real terms, euro area house prices declined by 8% over the last 12 months
- But the previous increase was massive
- Cross-country heterogeneity is still huge, but cycles seem much more synchronized now.

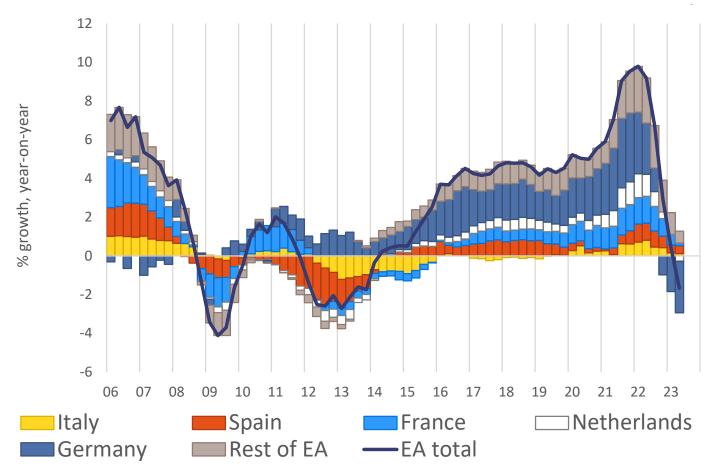


Estat Q2 data suggests reversal





Euro area house price index

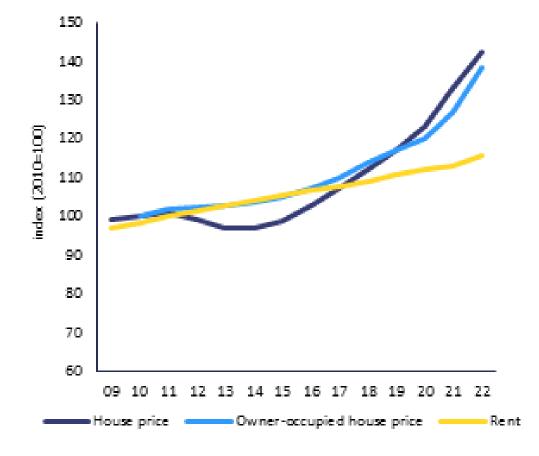


2007-2013: busts 2014-2019: recovering real estate 2020-2022: pandemic price push 2022-: remarkable reversal

DE, NL and small MS drive dynamics recently



The gap between house price and rental index is wide



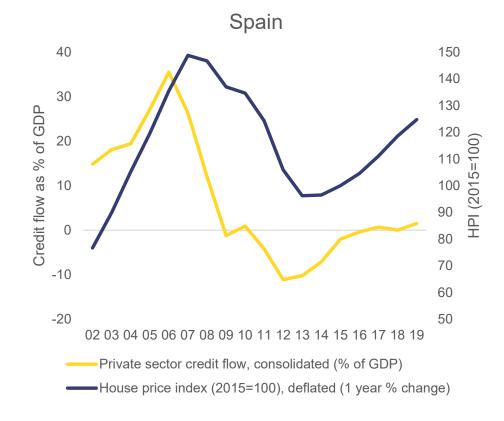


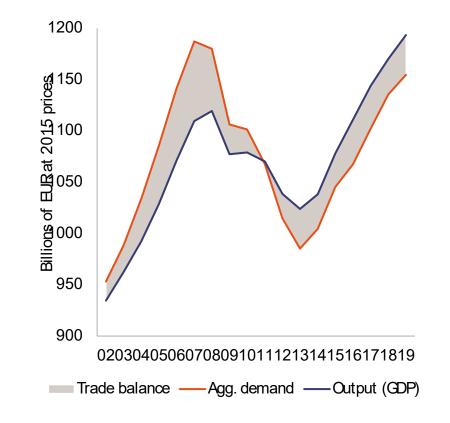
I. EU macroeconomic surveillance: MIP

- The Macroeconomic Imbalance Procedure (MIP) is a surveillance mechanism that aims to identify potential macroeconomic risks early on, prevent the emergence of harmful macroeconomic imbalances and correct the imbalances that are already in place.
- The Macroeconomic Imbalance Procedure (MIP) was introduced in the midst of the economic and financial crisis, to strengthen EU macroeconomic surveillance in areas not covered by SGP
- Some countries whose public finances seemed healthy (Ireland, Spain) ended up needing support.
- Depth of crisis affected by build-up of internal and external imbalances.
- Rationale for supra-national surveillance under MIP: macroeconomic imbalances in one country have relevance also for other Member States.



The Spanish bust as an example







I. EU macroeconomic surveillance: MIP

Screening

Commission publishes <u>Alert Mechanism Report (AMR)</u>, selects countries affected by, or at risk of being affected by imbalances for IDRs (*Art*, 3 & 4, Reg. 1176/2011)

February/March

Analysis and identification of imbalances

Commission presents <u>In-depth Reviews (IDRs)</u> for selected countries (Art. 5, Reg. 1176/2011)

June

November

Recommendations, monitoring, enforcement

Preventive action: <u>Country-specific recommendations</u> (Art. 6, Reg. 1176/2011) [Specific monitoring] **Corrective action:**

Excessive Imbalance Procedure (EIP) (Chapter III, Reg. 1176/2011) Possible sanctions for euro area countries (Reg. 1174/2011)



I. EU macroeconomic surveillance: MIP scoreboard





I. EU macroeconomic surveillance: countries with imbalances

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
BE	Imbalances	Imbalances	Imbalances	Imbalances	IDR, no imb.	No IDR	No IDR	No IDR					
BG	Imbalances	Imbalances	Imbalances	Excessive imb.	Excessive imb.	Excessive imb.	Imbalances	Imbalances	IDR, no imb.	No IDR	No IDR	No IDR	
CZ	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	IDR, no imb.	Housing
DK	Imbalances	Imbalances	IDR, no imb.	No IDR	No IDR	No IDR							
DE	No IDR	No IDR	Imbalances	Imbalances	Imbalances	Housing							
EE	No IDR	No IDR	No IDR	No IDR	IDR, no imb.	No IDR	No IDR	IDR, no imb.	Housing				
IE			Imbalances	IDR, no imb.	No IDR								
EL								Excessive imb.	Excessive imb.	Excessive imb.	Excessive imb	imbalances or i	
ES	Imbalances	Excessive imb.	Imbalances	Imbalances	Imbalances								
FR	Imbalances	Imbalances	Imbalances	Excessive imb.	Excessive imb.	Excessive imb.	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	
HR			Excessive imb.	Imbalances	Imbalances	Imbalances	IDR, no imb.	No IDR					
IT	Imbalances	Imbalances	Excessive imb.	Excessive imb	Excessive imb.								
CY	Imbalances				Excessive imb.	Excessive imb	Excessive imb.						
LV	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	IDR, no imb.	Housing
LT	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	IDR, no imb.	Housing
LU	No IDR	No IDR	IDR, no imb.	No IDR	No IDR	IDR, no imb.	Housing						
HU	Imbalances	Imbalances	Imbalances	Imbalances	IDR, no imb.	No IDR	No IDR	Imbalances	Housing				
MT	No IDR	Imbalances	IDR, no imb.	No IDR	No IDR	No IDR							
NL	No IDR	Imbalances	Imbalances	Imbalances	Housing								
AT	No IDR	No IDR	No IDR	No IDR	IDR, no imb.	No IDR	No IDR	No IDR					
PL	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	
PT				Excessive imb.	Excessive imb.	Excessive imb.	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Housing
RO				Imbalances	IDR, no imb.	No IDR	No IDR	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	
SI	Imbalances	Excessive imb.	Excessive imb.	Imbalances	Imbalances	Imbalances	IDR, no imb.	No IDR	No IDR	No IDR	No IDR	No IDR	
SK	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	IDR, no imb.	Housing
FI	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	IDR, no imb.	No IDR	No IDR	No IDR	No IDR	No IDR	No IDR	European
SE	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Imbalances	Housing

II. Housing in EU macroeconomic surveillance

Worrying about fiscal (and macro?): MIP

- Macroeconomic imbalance procedure: where housing "affects economic functioning". (Reg(EU) 1176/2011)
- House prices and private-sector credit in MIP scoreboard
- Also cares beyond fiscal risks, but difficult

Worrying about banks: Macro-prudential surveillance

- Macroprudential surveillance is for MS (directive)
- European surveillance through European Systemic Risk Board (ESRB): ESRB similar to EBA, though the facto manned by ECB. ESRB cannot sanction, has to rely on Commission/MIP (Reg(EU) 1176/2011).
- Also cares about non-banks, but difficult



II. Housing in EU macroeconomic surveillance - reasons

- House prices are asset values, and thus the most important **collateral**
 - Macro-prudential concerns risk s of financial meltdown (euro crisis) or NPL deflation
 - Feedback loop
 - Can imply gross asset misallocation too (see Northern countries in GFC)
- House prices are endogeneous with housing supply
 = construction activity → GDP (plus 24% of GDP CA deficit?)
- House prices can affect housing affordability → impact on households:
 - aggregate demand in the short term,
 - affecting mobility and productivity over a longer time horizon,
 - demographic pressures foremost among social impact



III. EC approach to house price assessment

- Main methodologies applied
 - I. Analysis of the house price time series (+credit, lending IR, credit conditions)
 - II. Indices based on structural ratios (PTI, PTR)
 - III. Fundamental analysis of price developments a cointegration approach is followed for estimation of the house price empirical equation, using DOLS
 - IV. Houses price in level (+regional, affordability concerns)
 - V. Borrowing capacity of households
 - VI. Ad hoc models PVAR with housing, financial and macro variables
- The analysis of housing is linked to household debt
 - Fundamental and prudential benchmarks



III. What is used across the ESCB

- Main valuation approaches used within ESCB:
 - **Price-to-income / Price-to-rent ratio** almost all NCBs, but *not always considered a measure of overvaluation*
 - Deviation from sample mean, time-varying trend, periods prior to reversals,
 - Alternatives: price to construction cost, interest paid on new mortgages to disposable income, price deviation from HP/BP trend
 - **ECM / inverted demand** half of NCBs, not always considered a measure of overvaluation
 - standard fundamentals: real income per cap, real mortgage rate, housing stock, population,
 - additional variables: real mortgage loans, building permits, construction cost, fiscal dummies.
 - coupled with 2nd equation for residential investment



III. What is used across the ESCB

- Other valuation approaches used within ESCB:
 - **PCA / composite indicator** PTI, PTR, house price to inflation, price to construction cost, resid. investment-to-GDP,
 - Investment perspective rental yield govt. bond yield, NPV of rental profits
 - Borrowing / repayment capacity of HH attainable price as function of income, mortgage annuity payment, mortgage rate, tax regime
 - **Regional data** house stock per cap., real income per. cap., pop. density, GDP growth prospect

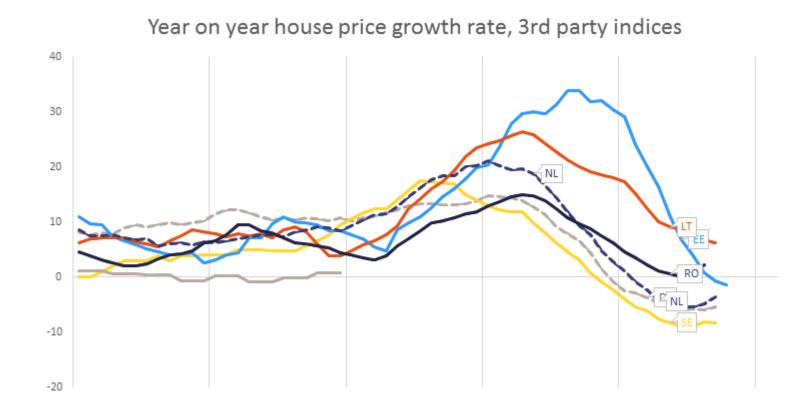


III. What is used across the ESCB

- Other approaches used within ESCB no valuation assessment:
 - **SVAR / VECM** real house prices, rents, real GDP / income, construction costs, mortgage rate, real mortgage loans
 - Quantile regressions / Prices at risk future scenario of price developments
 - Forecasting macro model house price modelled, e.g. EC from LT equilibrium, cointegration between prices and mort. credit



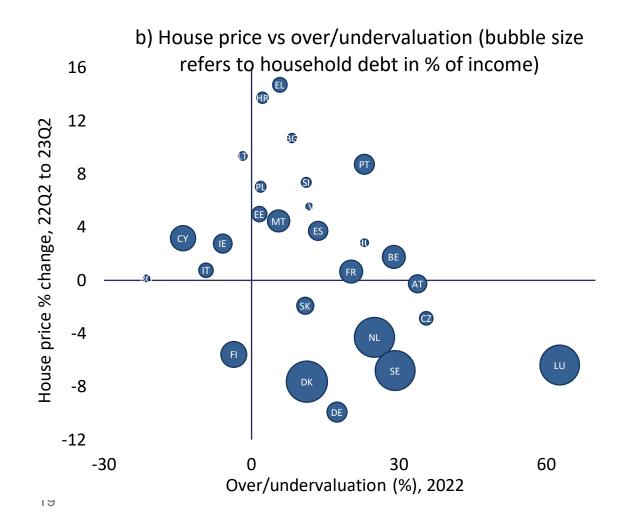
Tool: scraping high-frequency data



- Third-party data suggests next inflection point to come up
- Fundamentals suggest price growth to resume over next 8 quarters



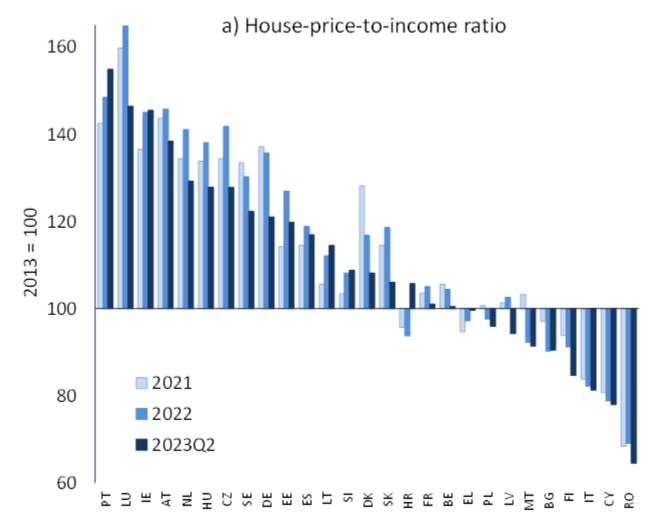
Tool: house price valuation



- House prices compared to the house price suggested by fundamentals
- Key for assessment
- By 2023, most MS were still overvalued

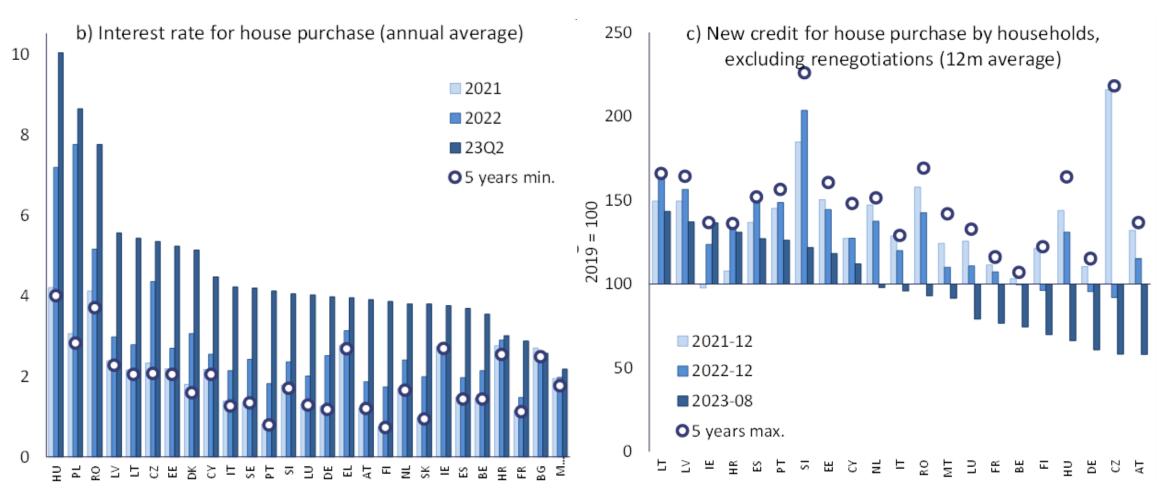


PTI may suggest improving affordability





Additional factor recently: fast-changing mortgage market

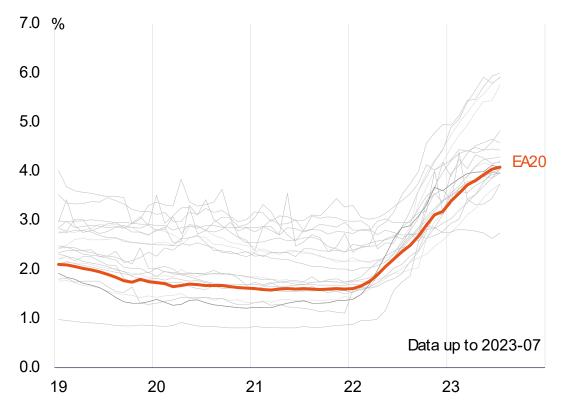




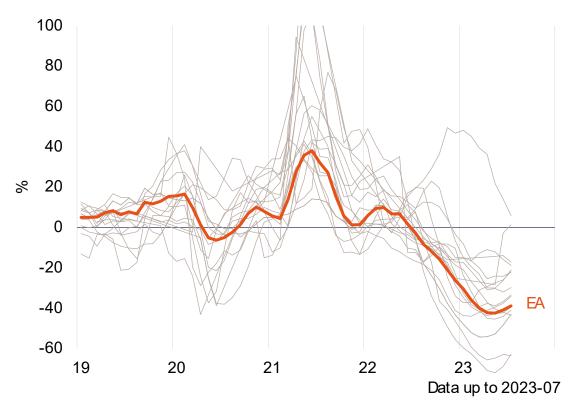
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...even within the euro area

Mortgage interest rates climbing fast...



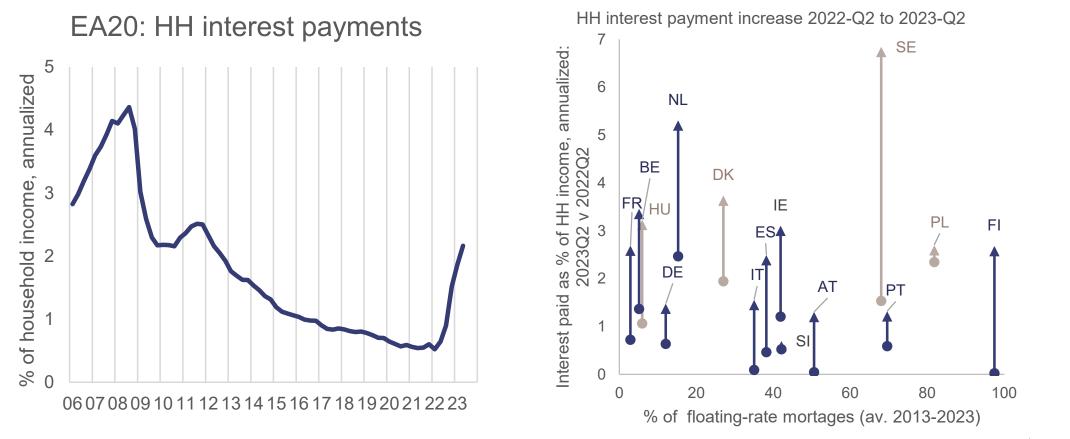
nual percentage rate of charge for new hh. mortgage business: EA MS and EA average. Data source: ECB MIR ...and household credit flows decline after the 2021 surge



Pure new household mortgage business, yoy growth (3 month moving sum): 20 EA MIR

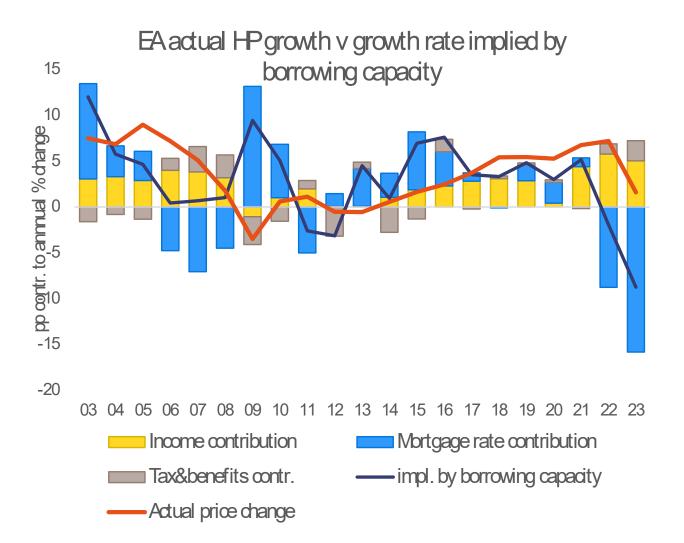


HH interest payments are increasing fast

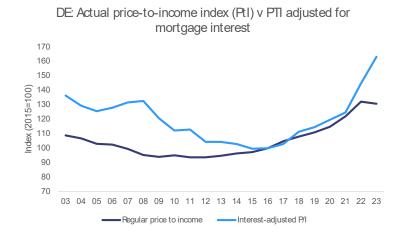




Tool: borrowing capacity suggests downturn



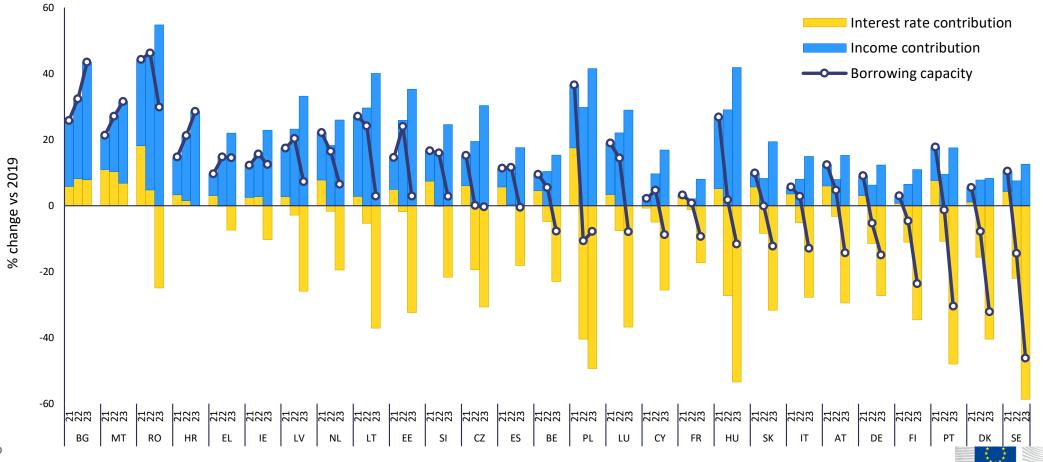
 Borrowing capacity based on house price levels (HouseLev/maapdomo) and JRC housing taxation database.



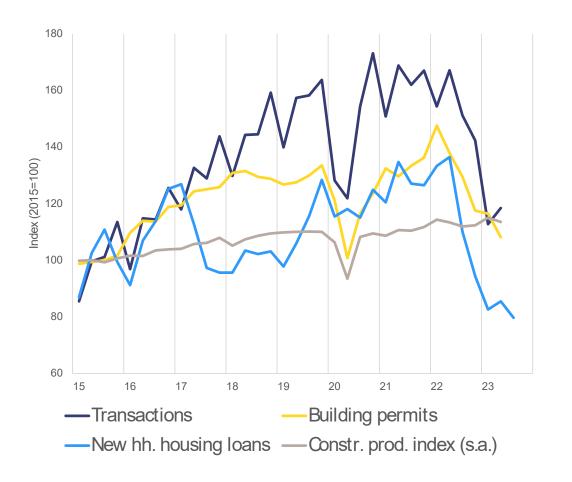


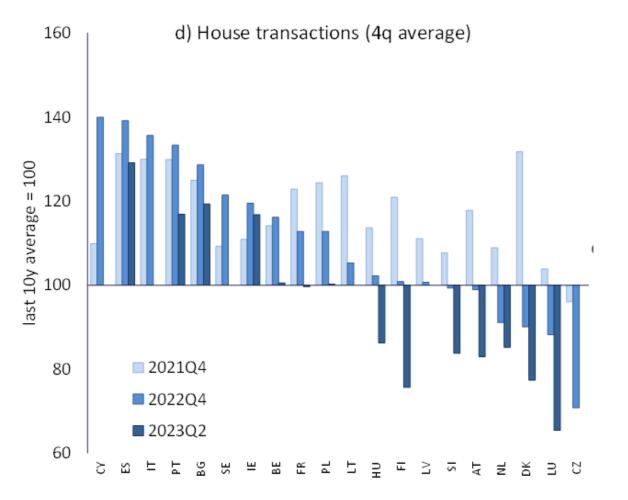
Tool: borrowing capacity suggests downturn

Borrowing capacity change (%), vis-a-vis 2019



Impact on transactions visible – construction impact still to come

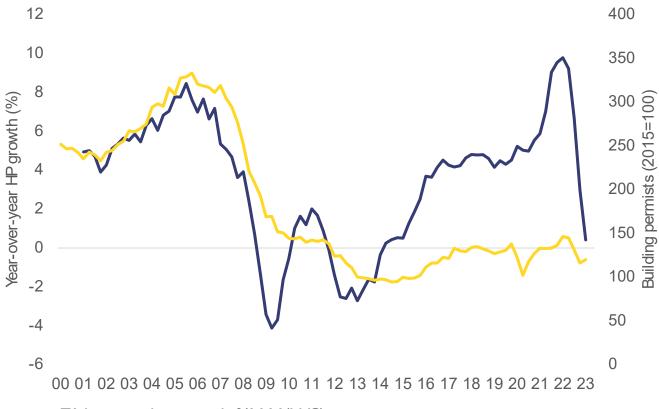






Despite price growth in the last decade, supply was lagging

Euro-area house price growth v apartment building permits



[—] EA house price growth %YoY (LHS)

Building permits for sqm in multi-dwelling buildings (2015=100, s.a.) (RHS)

Since 2008, residential construction remains muted ...

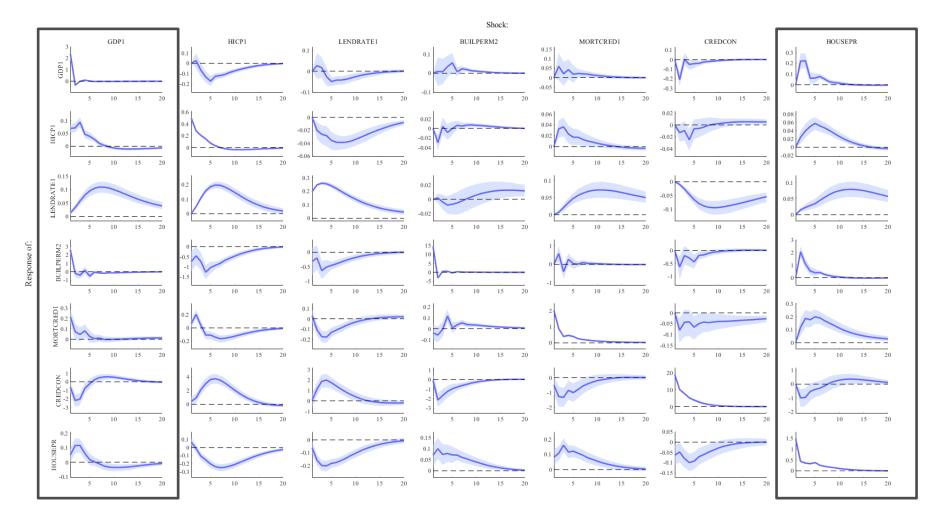
...notably in dense areas where price pressures are high.

From 2008 onwards, government incentives for supply have been reduced. Targeted measures to support housing demand more prominent



Strong links between macro and housing developmentcurrent developments consistent with historical patterns

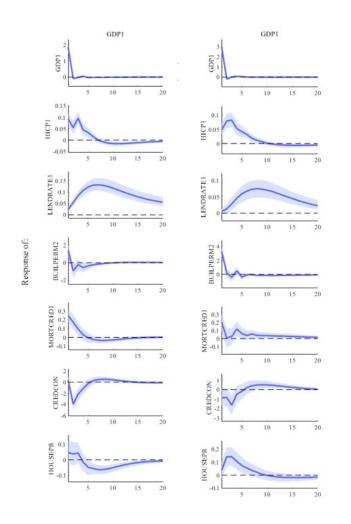
Impulse response function from baseline panel BVAR, 12 EA countries, 2003 Q1 – 2023 Q1

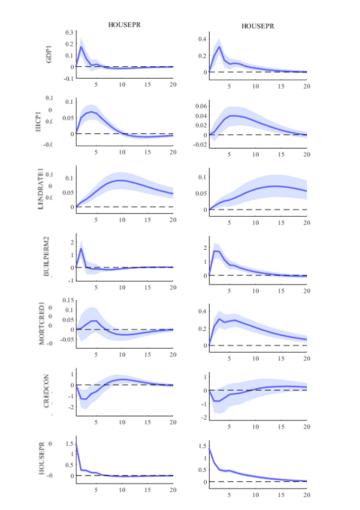


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Differences in transmission within the EA seem to depend on differences in supply elasticity

Impulse response function from panel BVAR, 2 subpanels of EA countries (DE, NL, AT, LU, FI, BE – left columns) and (EL, ES, IE, FR, IT, PT – right cplumns), 2003 Q1 – 2023 Q1

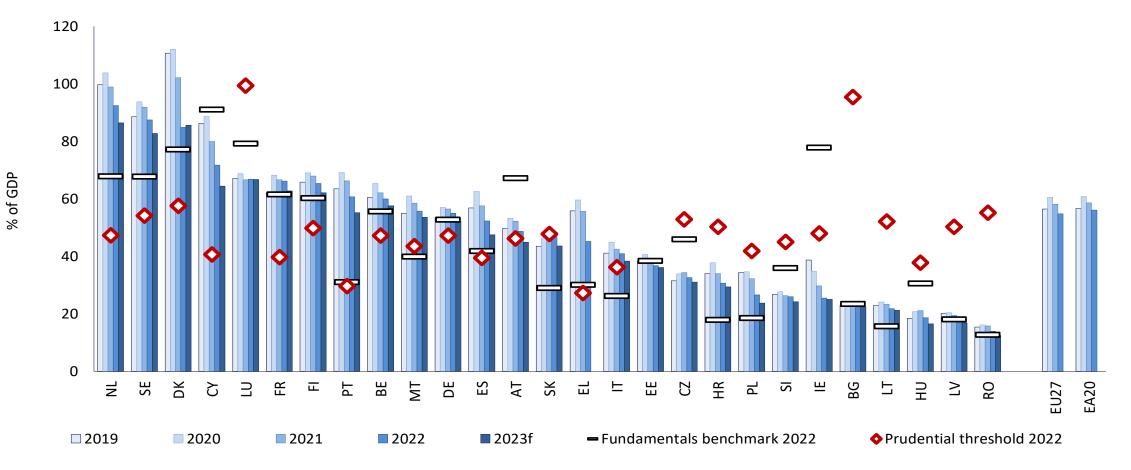






Tool: Household debt vs estimated benchmarks

Household debt-to-GDP ratios





IV. Housing market related policies

- Macroprudential policy and mortgage-related regulation
 - BBM measures introduced in the last decade, not all MSs binding LTV / DSTI limits
 - ESRB report on RRE vulnerabilities, Feb 2022: warning (HU, SK), recommendation (DE), Sept 2019: warning (CZ, HU), recommendation (LU, NL, SE)
- Structural regulation and housing supply
 - Zoning and building regulation (not easy to measure and compare)
 - Rental market regulation (low CZ, SK, EE, LT, LV, some DE, LU, strong NL, SE)
 - Social housing (low supply in general, except for NL)



IV. Housing market related policies

- Taxes and benefits systems
 - Transfer taxes (low in CZ, EE, LT, SK)
 - Recurrent property taxes (mostly around 0.1%)
 - Rental income taxes
 - Capital gain taxes
- Taxes and benefits systems
 - Some form of grants / subsidies to homebuyers, subsides (almost all MSs)
 - Mortgage interest rate relief, different modalities (some MSs)
- Insolvency and foreclosure regulation
 - Differences in effectiveness / speed of loan enforcement framework
 - Out of court settlements (LU, NL, SE) impact incentives to launch foreclosure proceedings



Conclusions

DG ECFIN uses diverse tools

- The focus is on house prices, mortgages
- Despite work, tools lacking on building stock and rentals
- Social housing: part of building stock, but we know country cases
- Regulatory settings: lots of past work on insolvency, repossession, land registry
- Taxation still is key. Land value tax?



Conclusions

Price developments are driven by different cyclical and structural factors

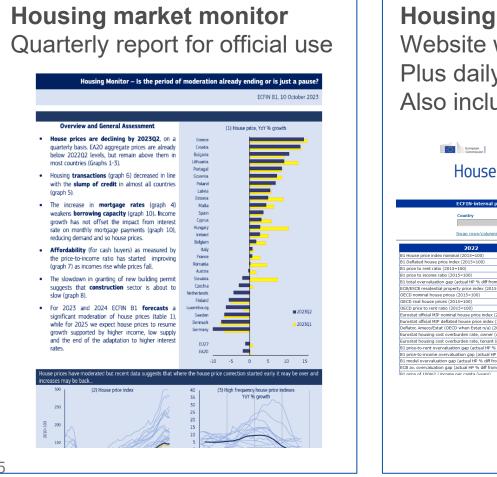
- Downward pressure on house prices
 - High mortgage rates + weak lending
 - High recession risk
 - Price overvaluation
 - Low rental yields
 - High household debt

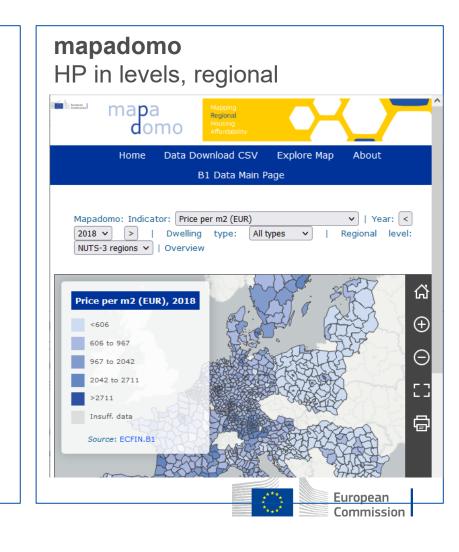
- Upward pressure on house
 prices
 - Constrained house supply
 - High construction cost
 - Population increase
 - Housing preferences shift + energy efficiency



Internal resources for real estate surveillance

All available under https://s-ecfin-web.net1.cec.eu.int/directorates/db/u1/data/



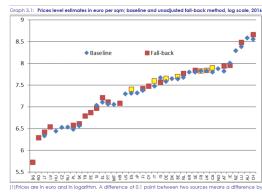


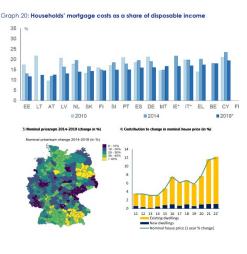
Housing market database Website with daily updates Plus daily chartbook Also includes models etc



Selected outlets

- Philipponet, N. and A. Turrini: "Assessing House Price Developments in the EU", ECFIN DP No. 48, 2017.
- Bricongne, J.-Ch., A. Turrini and P. Pontuch: "Assessing House Prices: Insights from Houselev, a Dataset of Price Level Estimates", ECFIN DP No 101, 2019.
- Bricongne, J.-Ch., L. Coutinho, A. Turrini and S. Zeugner: "Is debt excessive?" <u>Open Economies Review</u>, vol. 31(2), 2020.
- Frayne, Ch., A. Szczypińska, B. Vašíček and S. Zeugner: "Housing market developments in the euro area: focus on housing affordability", ECFIN DP No. 171.
- Vašíček, B. and V. Ždárek: "Links between housing and real economy in the euro area." In <u>Quarterly Report on the Euro Area</u>, Vol. 21, No. 3, 2022.
- "Housing Market Developments: Thematic Note to Support In-Depth Reviews". April 2023, Institutional Paper No. 197, 2023.
- ³⁶ November 2023: Forecast special topic and Alert Mechanism Report







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gracias	thank you	ačiū	mulţumesc
děkuji	merci	köszönöm	ďakujem
tak	go raibh maith agat	niżżik ħajr	hvala
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tänan	grazie	dziękuję	tack



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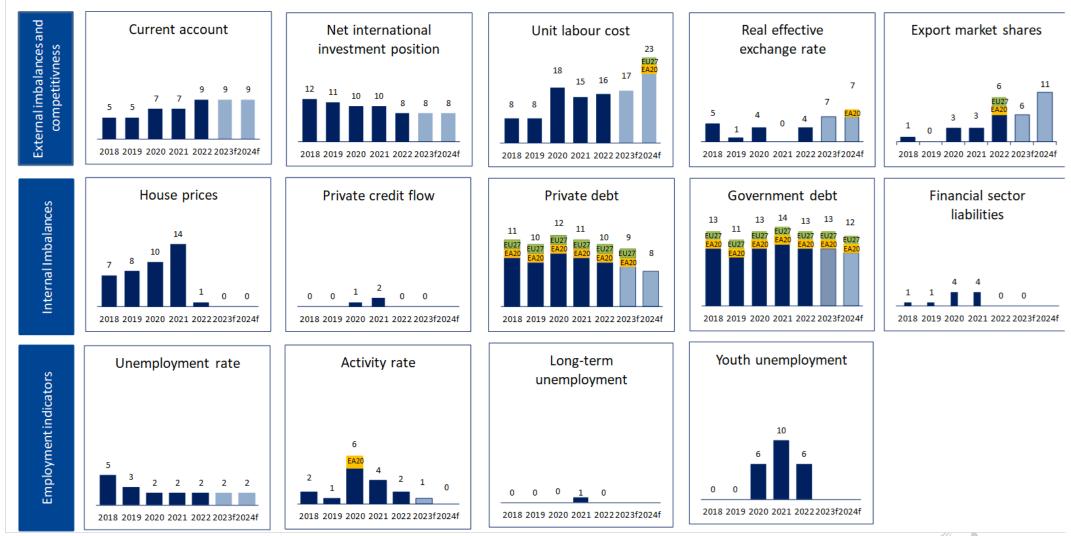
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Appendix



I. EU macroeconomic surveillance: MIP

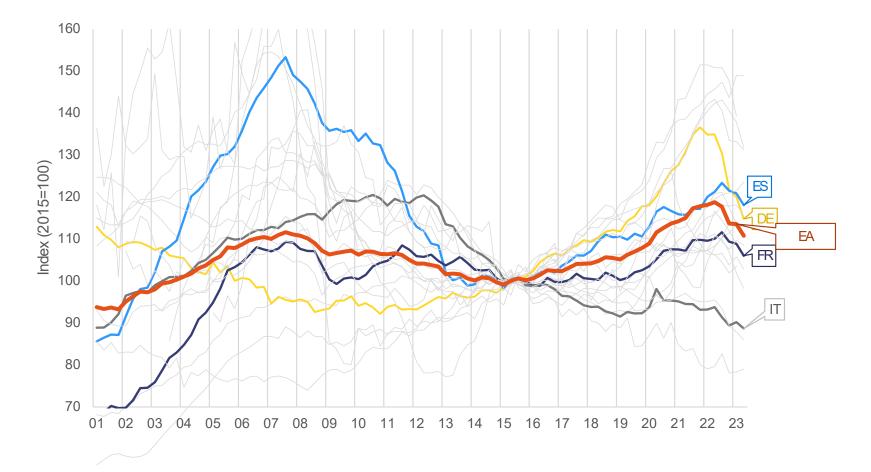


Number of Member States recording scoreboard variables beyond threshold



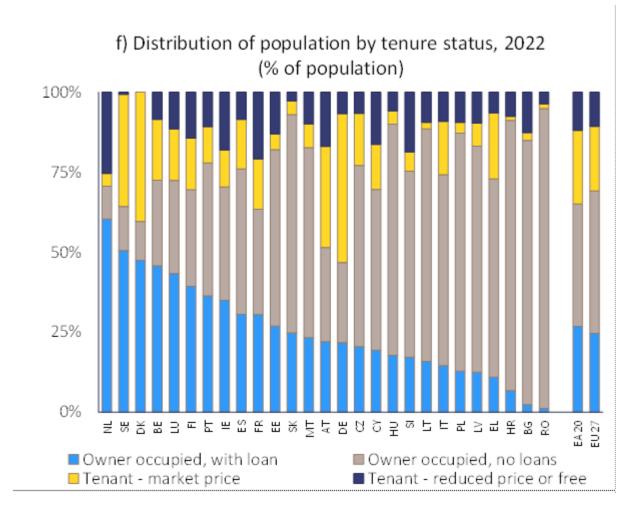
Price growth v income growth: heterogeneity

Price to income index

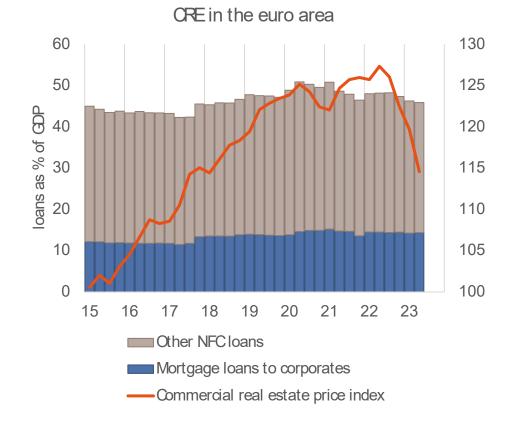




Price to income, with income denoting gross disposable household income per capita. Index based at 2015 levels. Data source: Commission calculations based on Eurostat prc_hpi_q



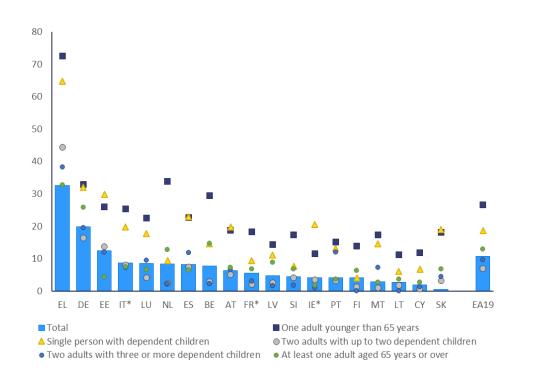




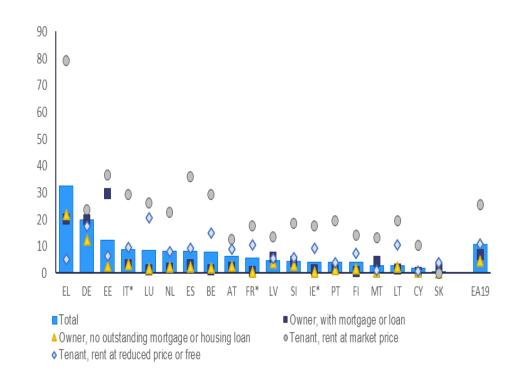
- Commercial real estate is an issue
- CRE loans matter



Overburden rate – by household composition, EA countries, 2020



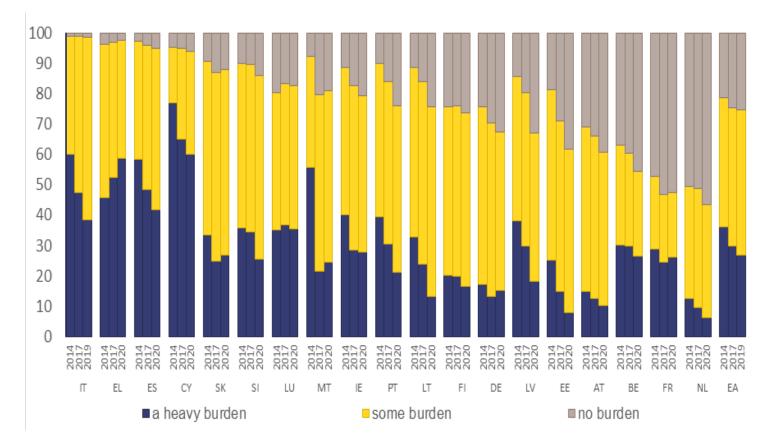
Overburden rate – by tenure status, EA countries, 2020



Note: The "overburden rate" represents the share of the population living in a household where housing costs (net of housing allowances) represent more than 40% of the total disposable household income. Housing costs include structural insurance, mandatory services and charges as well as the cost of utilities but also mortgage interest payments (net of any tax relief) for owners and rent payments. Critically, **the housing overburden measure does not include capital repayments on mortgages. Source:** Eurostat (EU-SILC)



Percentage of households, perceiving monthly housing costs to be a heavy burden, some burden or no burden (households' self-assessment)





Source: Eurostat (EU-SILC)