

FINANCIAL MARKETS AND INSTITUTIONS
A.Y. 2024/25
PROF. ALBERTO DREASSI — ADREASSI@UNITS.IT

A7. MORTGAGE MARKETS



- WHY DO MORTGAGE LOANS EXIST?
- HOW DO THEY WORK?
- SECONDARY MARKETS AND THE FINANCIAL CRISES

PURPOSE AND MAIN FEATURES

- Long-term loan secured by real estate
- Both residential and commercial/industrial
- Repayment with periodic payments of C and I (amortisation)
- IR fixed, variable, or a combination
- Global size (StraitsResearch): 13 TRN USD (2024), estimated 30 TRN USD (2033)



Many variations:

- can be guaranteed by public agencies (f.i. veterans, young couples, ...)
- IR: adjustable rate mortgage (ARM), caps/floors, fixed installment + variable rate
- Additional risks if increasing installments (f.i. growing equity GEM) or decreasing optional installments (preamortisation below nominal rate, interest-only, ...)
- multiple mortgages on same collateral are possible
- reverse annuity (RAM)

Go to wooclap.com and use the code FMAI

Which is the best FIXED interest rate that today, for a 20 years residential mortgage, one can obtain in Trieste? (in %, number only)

1











Click on the projected screen to start the question

of participants have already answered



Go to wooclap.com and use the code FMAI

Which is the best VARIABLE interest rate that today, for a 20 years residential mortgage, one can obtain in Trieste? (in %, number only)







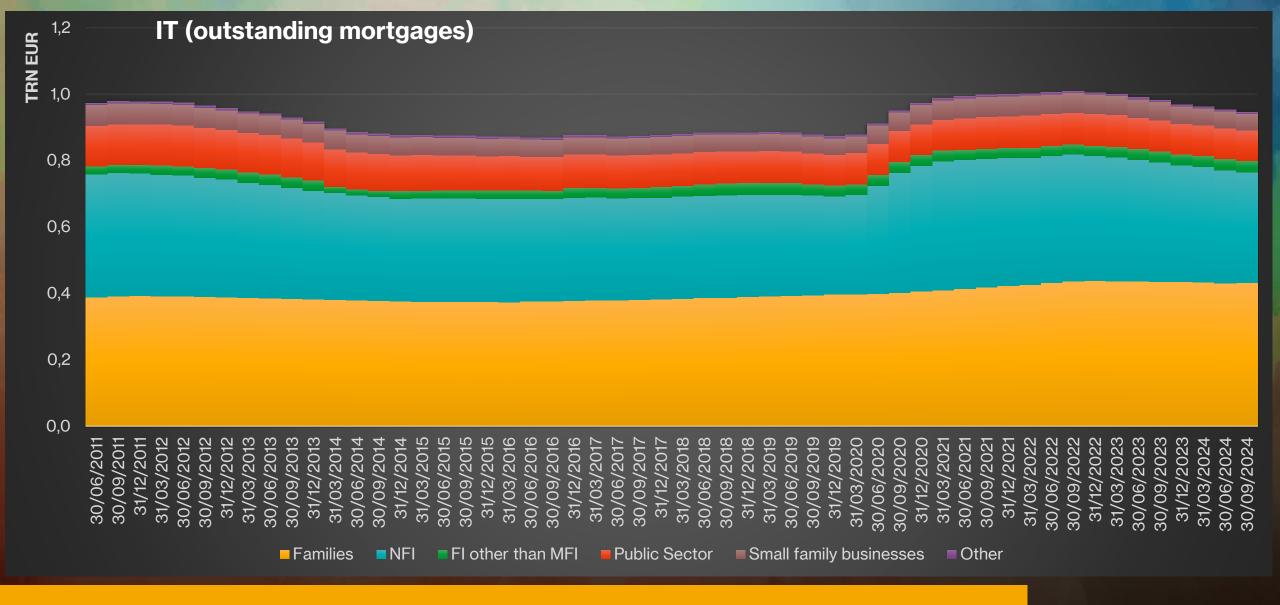






Click on the projected screen to start the question

of participants have already answered



EXAMPLES

PRICING

i% = Market + Spread

Variable: EURIBOR, EONIA ...

Fixed: EURIRS

Lender:

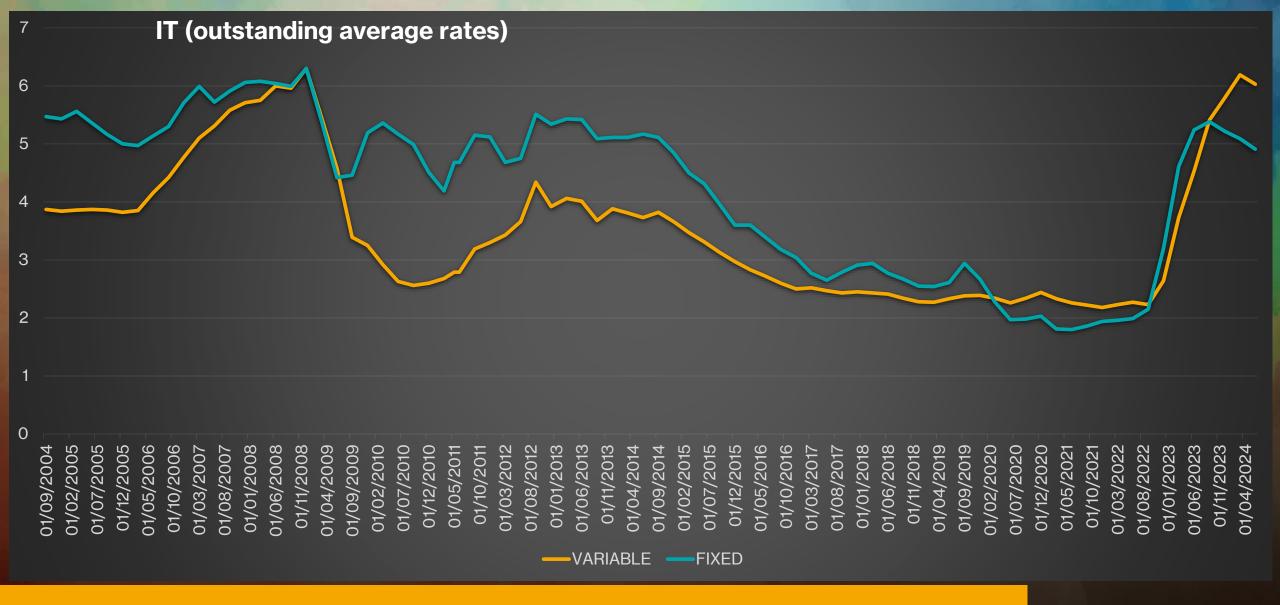
- Strategy and competition
- Funding
- Existing portfolio
- Expectations

Borrower:

- Creditworthiness, net worth and income
- Outstanding debt
- Past behavior and credit scores

Operation:

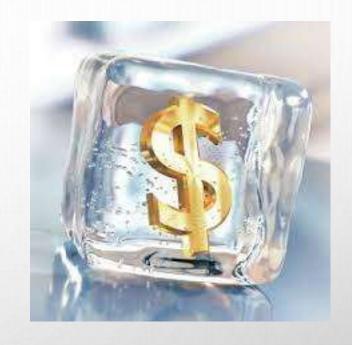
- Duration, rate and amortization plan, purpose
- Down payments (f.i. 80/20) and loan-to value
- Collateral, insurance



EXAMPLES

SECONDARY MARKET

- Mortgages are illiquid for lenders
- Partially also for borrowers (but: laws and regulation)
- Illiquidity threatens lenders:
 - IR risk (A/L mismatch, reinvestment of future flows)
 - default risk / market risk of collateral
 - loan servicing is expensive (administrative costs)



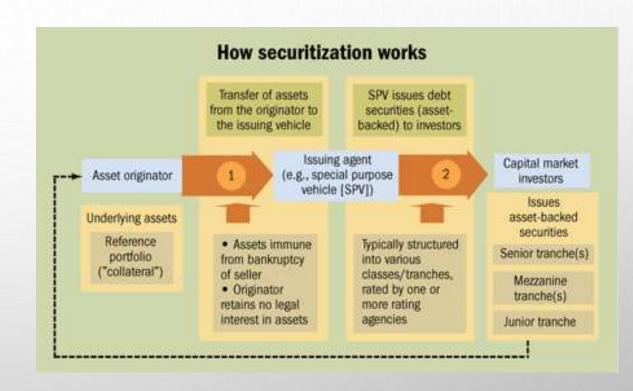
Secondary markets can be useful, but are difficult:

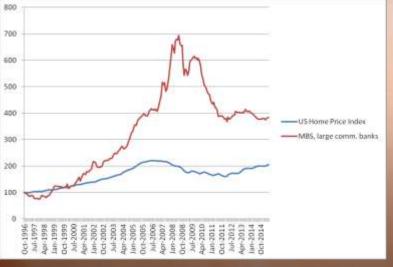
- Initially, ceding loans to other investors (but costly and time consuming)
- Then, funded by (and transferred to) **public repurchase programs** (in bulk, with asymmetric information issues)
- More recently, trough securitization

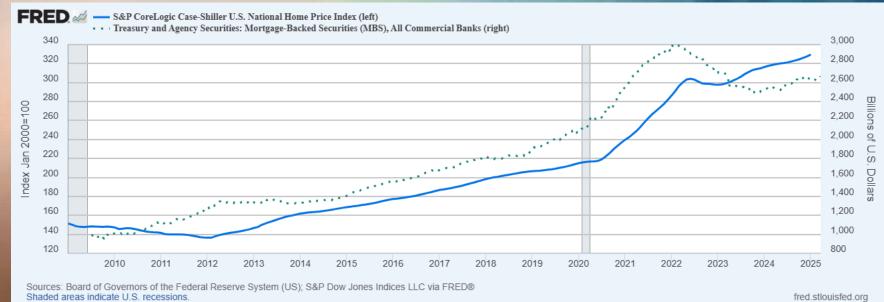
SECONDARY MARKET & SECURITIZATION

Securitisation:

- Securities backed by assets (mortgages, MBS)
 to fund new acquisitions
- Useful for a number of small-size loans, unstandardised, with different maturities and other economic features, towards borrowers with different credit scores, costly to service, uncertain in default rates
- Allows liquidity to originator, diversification to investors
- Dangers: distance between risk-bearer and risk-assessment and complexity/pricing







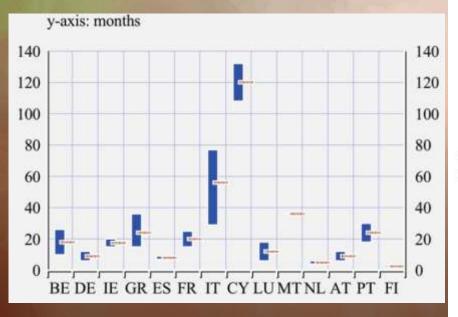
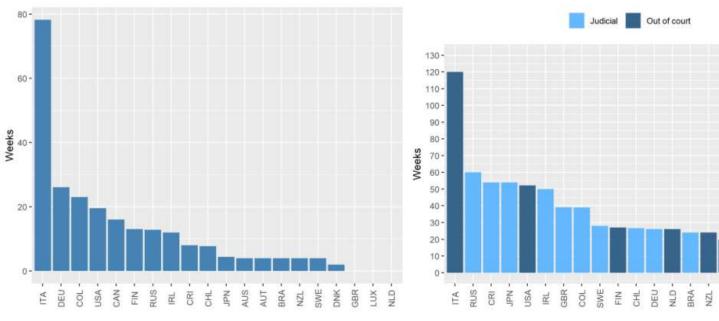
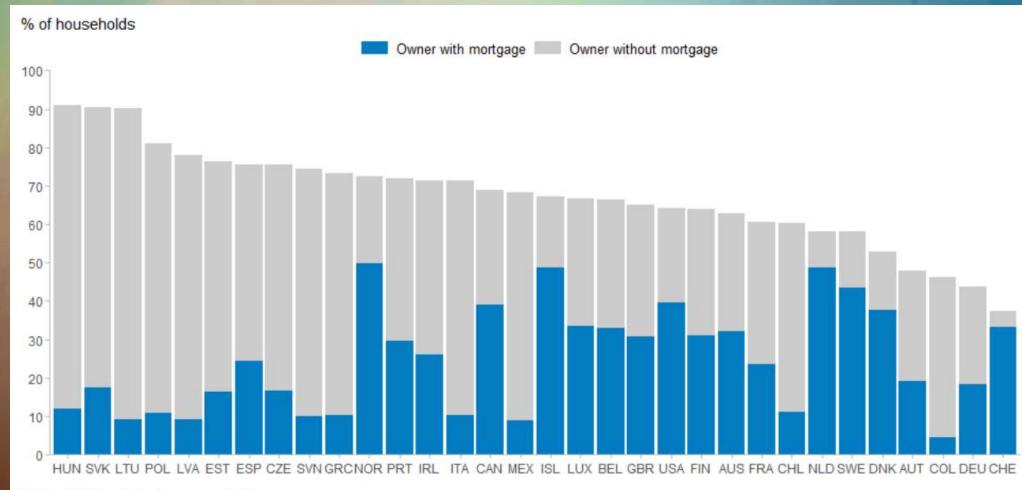


Figure 13. Foreclosure proceedings' characteristics across jurisdictions

Panel A:Weeks after first missed payment that foreclosure procedure starts Panel B:Duration of foreclosure proceedings



Note to Panel B: Typical duration of the foreclosure process for the most common procedure in the respective country (out of court or in court). Source: OECD QUASH survey and various public sources.



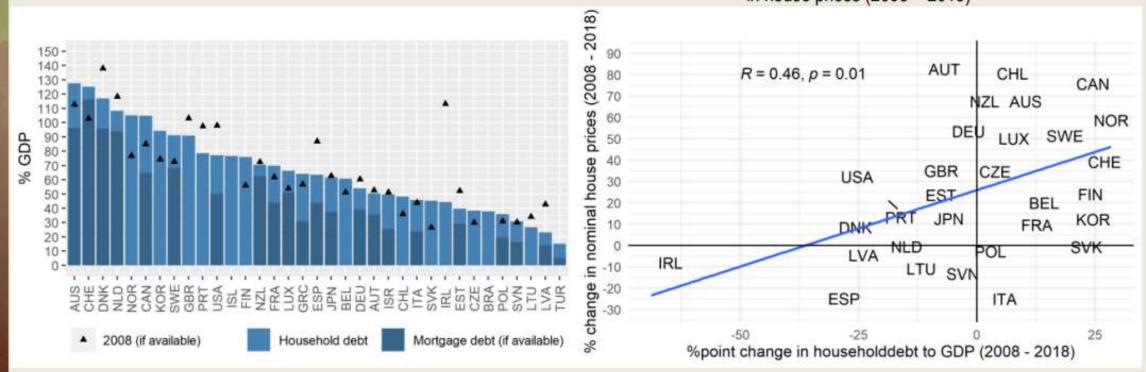
Note: 2019 or latest year available.

Source: OECD Affordable Housing Database.

Figure 9. Total household (including mortgage) debt to GDP

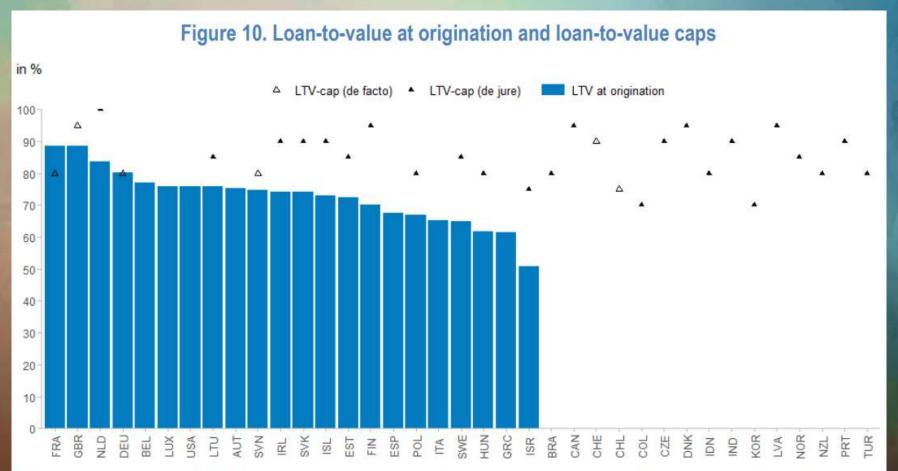
Panel A: Household debt to GDP in 2018 and 2008

Panel B: Change in household debt to GDP versus change in house prices (2008 – 2018)



Source: OECD Household Accounts, doi:0.1787/na-data-en; OECD Housing Prices, doi:10.1787/63008438-en and EMF.

EXAMPLES



Note: De jure LTV-caps refer to official regulation of government institutions. The de facto caps are caps that follow from self-imposed constraints by financial institutions or recommendations from governments.

Source: ESRB (2021) Macroprudential database; OECD QUASH 2019 survey; IMF Macroprudential database; ECB (2020[30]); Bank of England.