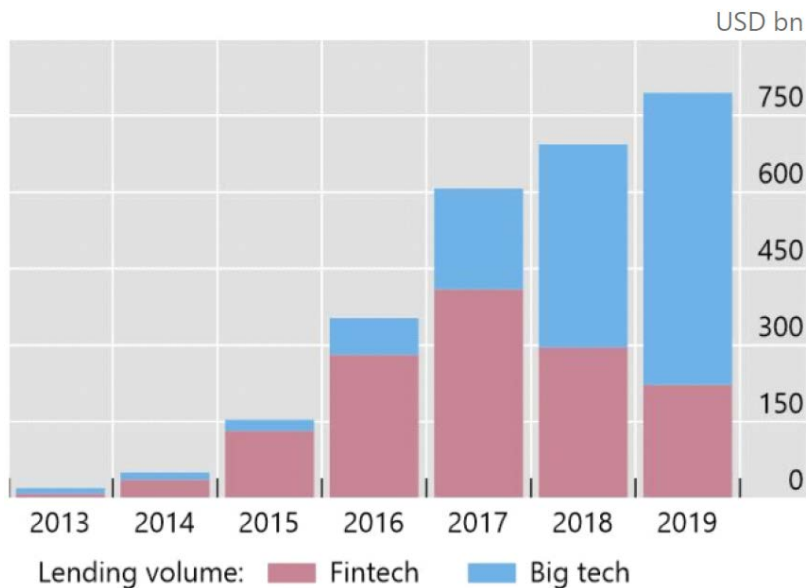


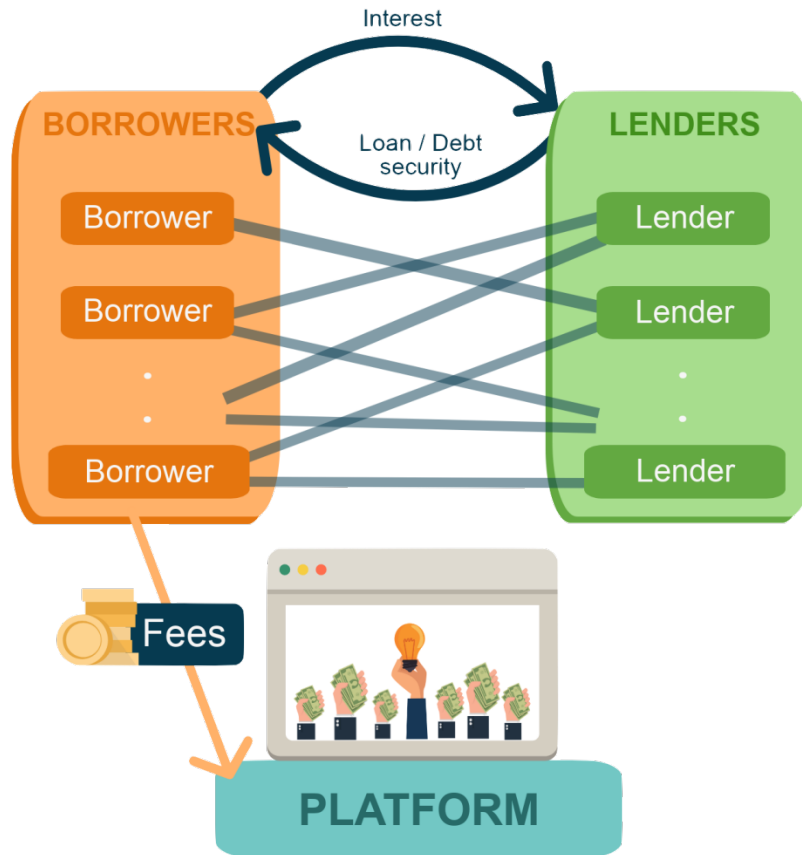
# What can we learn from the rise and fall of P2P lending?

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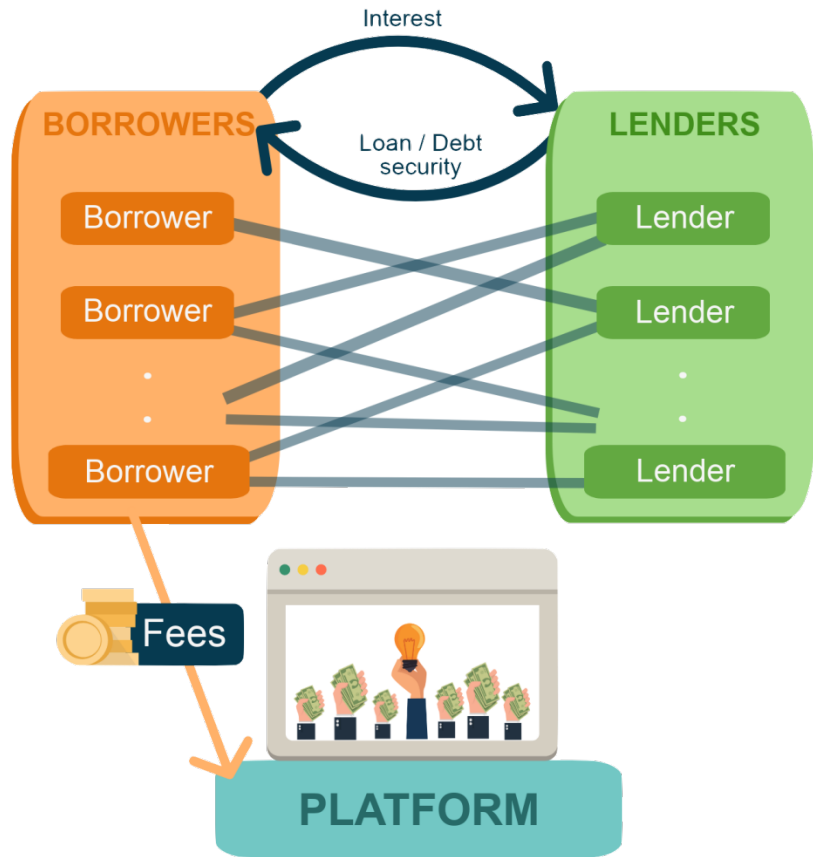


# The rise of P2P lending



Platforms have attracted borrowers underserved by banks in the wake of the financial crisis (Havrylchuk, Mariotto, Rahim & Verdier, 2021).

# New business model



No risk transformation **VS** Risk transformation  
No maturity transformation **VS** Maturity transformation  
No monetary creation **VS** Monetary creation

# The decline of P2P lending

- **Business model of P2P lending has evolved**
  - Retail investors are replaced by banks (Lending Club, RateSetter)
  - Retail investors cannot choose in which firms they invest (Funding Circle).
- **Amount of P2P lending is on the decline**
  - Chinese P2P lending platforms have been banned by the regulator in 2020 after numerous defaults.
  - In France, loans to SMEs provided by platforms are on decline.

# What explains the decline?

## Explanation 1: Adverse selection

- Fintech lenders serve **risky borrowers** (Havrylchyk, 2018; Havrylchyk, Mariotto, Rahim & Verdier, 2021; Havrylchyk and Mahdavi, 2021).
- and claim to finance **intangible assets** that are underfinanced by banks (Dell'Ariccia et al., 2017)
- “Wisdom of crowds” does not solve adverse selection problems. “Data and algorithms” do (Iyer et al., 2015; Vallée and Zeng, 2019).

## Explanation 2: Moral Hazard

- Platforms have taken the role of **delegated monitor à la Diamond (1984)** but the design of P2P platforms does not solve the problem of « Who monitors the monitor ?».
- There are **no mechanisms to align incentives of lenders and platforms** (Havrylchyk, 2018)
  - EU Crowdfunding Regulation (2020) forbids platforms to have any stake in listed loans. No skin in the game.

# Explanation 3: Banks have lower cost of funding

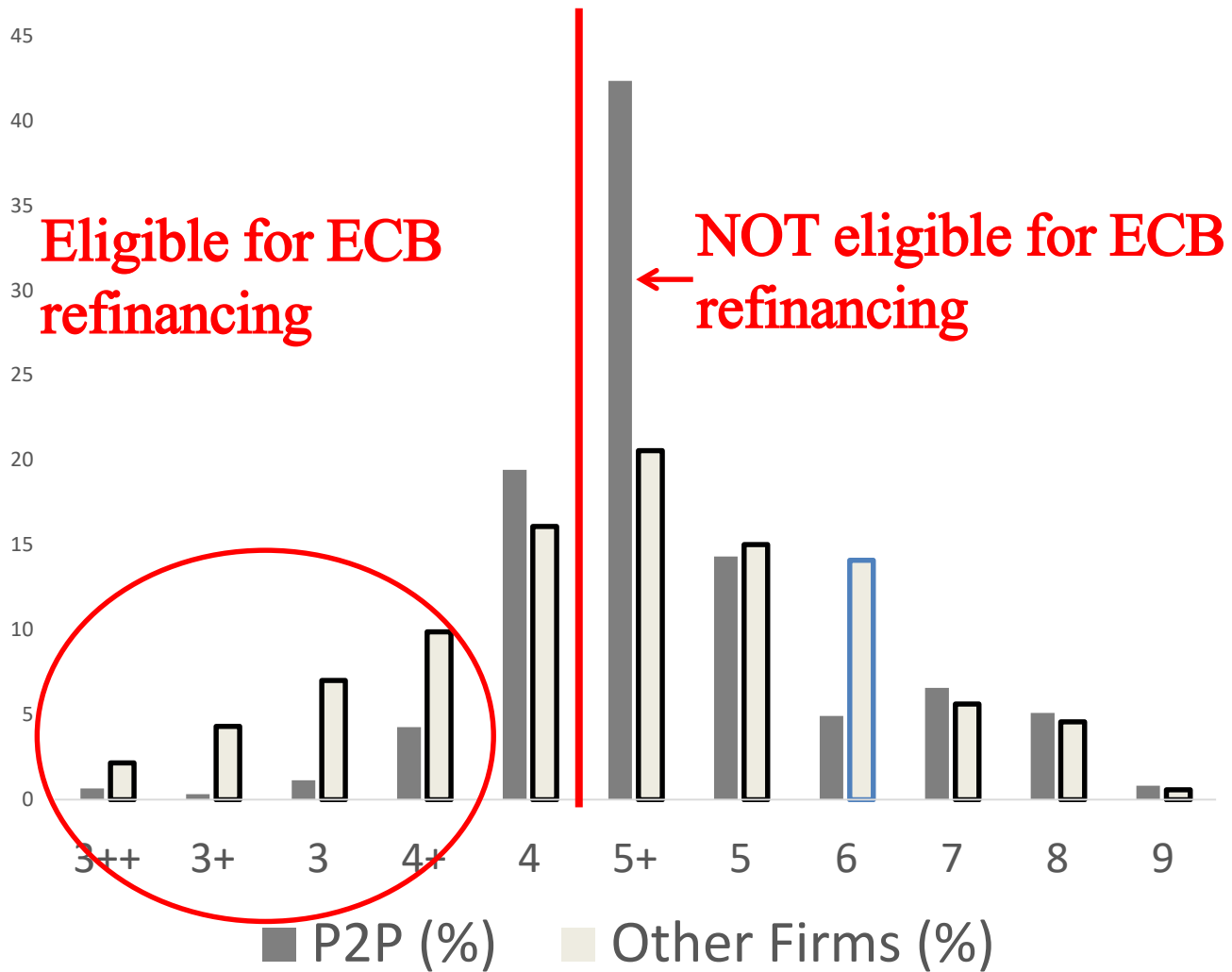
- **Implicit bank subsidies** lead to lower cost of funding for banks (Davies and Tracey, 2014), creating an uneven playing field
- Higher cost of funding translates into higher lending rates for borrowers via platforms

# Real effects of P2P lending on the borrowing firms (with A. Mahdavi)

- An empirical study of the French market
  - 7 Platforms: Unilend, October, Credit.fr, Les Entrepreneurs, Prexem, PretUp, Lendopolis
- Firms that borrow from P2P lending platforms are younger, riskier, have less tangible assets, higher funding costs, lower leverage, higher growth

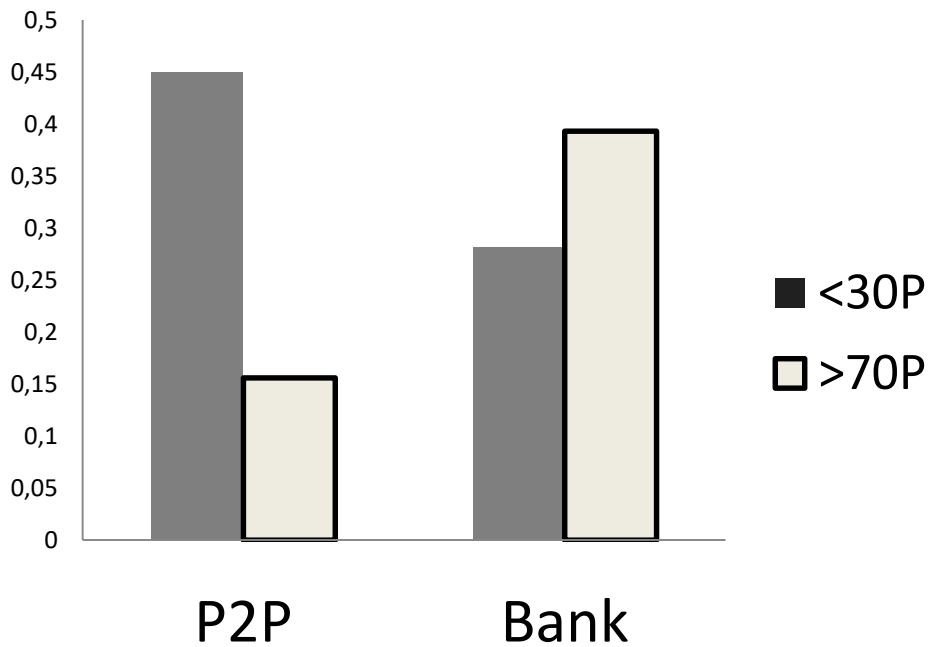


# Firms borrowing from P2P platforms are riskier (BoF credit risk score)

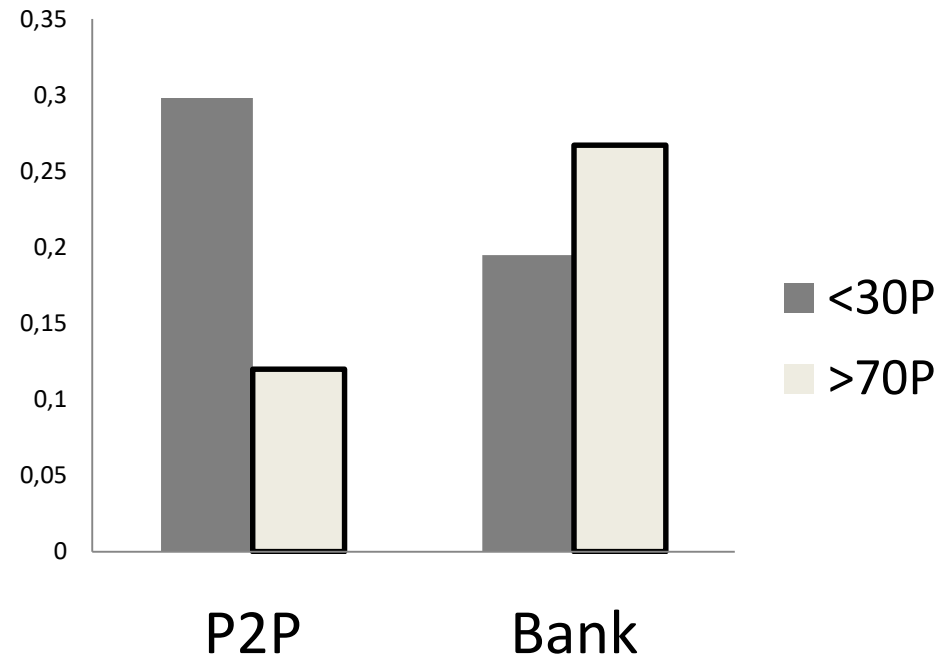


... have less collateral and less leverage

**Tangible assets/Assets**



**Debt/Assets**



# Identification strategy

- Given the **selection bias**, we use **matching methodologies** (PSM, Mahalanobis distance, coarsened exact matching). Balancing tests confirm the use of the PSM.
- DiD estimation

Limitation: We match on **observables** from financial statements, which might lead to an **overestimation of positive impact** of P2P lending

# Two sources of data for firms' financial statements

**Available** for P2P platforms:

- Published financial statements for larger firms (Diane)

**NOT available** for P2P platforms:

- Tax returns for ALL French firms.











# Conclusions

- French P2P lending platforms increase borrowing costs and risks for borrowing firms with negligible real impacts on intangible investment, wage growth, sales growth.
- **Interpretation:** platforms cannot overcome adverse selection problems and high funding costs.

# Implications for other fintechs & Big Tech

- Access to data matters!
  - Data availability of Big Tech might mitigate adverse selection problems (Frost et al., 2019; Gambacorta et al., 2020), but data access might create a barrier to entry.
- Business model matters!
  - What mechanisms align the incentives of investors and Big Tech?