### Bank Branch Density and Bank Runs by Benmelech, Yang and Zator

Discussion by Cecilia Parlatore

NYU Stern, NBER and CEPR

April 18, 2024

**Question** What is the relation between bank branch density, stock returns, and deposit inflows?

**Question** What is the relation between bank branch density, stock returns, and deposit inflows?

Banks with low branch density experienced

- 1. large deposit inflows between 2013 and 2022
- 2. large outflows of uninsured deposits during the 2023 banking crisis

**Question** What is the relation between bank branch density, stock returns, and deposit inflows?

Banks with low branch density experienced

- 1. large deposit inflows between 2013 and 2022
- 2. large outflows of uninsured deposits during the 2023 banking crisis

#### Why? Digital Banking

- 1. Rapid growth of (mostly uninsured) deposits during calm economic periods of a different type of clientele (tech-savvy, corporate clientele)
- 2. Rapid deposit withdrawals during crisis: lower stability of bank-depositor relationships and more clientele effect

**Question** What is the relation between bank branch density, stock returns, and deposit inflows?

Banks with low branch density experienced

- 1. large deposit inflows between 2013 and 2022
- 2. large outflows of uninsured deposits during the 2023 banking crisis

#### Why? Digital Banking

- 1. Rapid growth of (mostly uninsured) deposits during calm economic periods of a different type of clientele (tech-savvy, corporate clientele)
- 2. Rapid deposit withdrawals during crisis: lower stability of bank-depositor relationships and more clientele effect

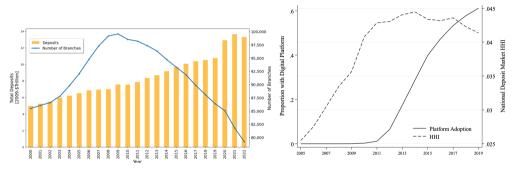
Lot's of evidence for the consistent with the "depositor composition channel" of Digital Banking captured by Branch Density

# What is the heterogeneity in Branch Density capturing?

Different exposures to digital banking (IV results - IT investment)

### What is the heterogeneity in Branch Density capturing?

Different exposures to digital banking (IV results - IT investment)

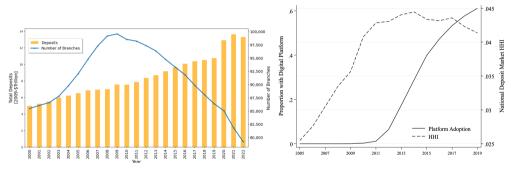


Source: Benmelech, Yang, and Zator (2024)

Source: Koont (2023)

# What is the heterogeneity in Branch Density capturing?

Different exposures to digital banking (IV results - IT investment)



Source: Benmelech, Yang, and Zator (2024)

Source: Koont (2023)

 Digital Banking appeals to a particular type of depositor (tech savvy, more educated,...)

- 1. Event study: Asset prices decrease more for banks with lower bank density
- 2. More (and higher growth of) uninsured deposits in banks with lower bank density

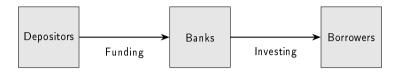
- 1. Event study: Asset prices decrease more for banks with lower bank density
- 2. More (and higher growth of) uninsured deposits in banks with lower bank density
- 3. IV: Higher growth of uninsured deposits in banks with higher IT investment

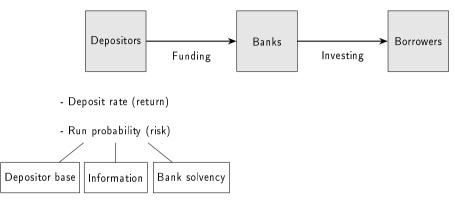
- 1. Event study: Asset prices decrease more for banks with lower bank density
- 2. More (and higher growth of) uninsured deposits in banks with lower bank density
- 3. IV: Higher growth of uninsured deposits in banks with higher IT investment
- 4. Depositors in banks with lower bank density "respond faster to mkt conditions"
  - more urban, higher income, younger, and more educated

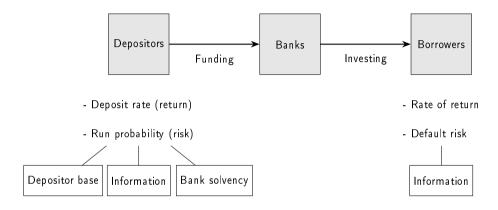
- 1. Event study: Asset prices decrease more for banks with lower bank density
- 2. More (and higher growth of) uninsured deposits in banks with lower bank density
- 3. IV: Higher growth of uninsured deposits in banks with higher IT investment
- 4. Depositors in banks with lower bank density "respond faster to mkt conditions"
  - more urban, higher income, younger, and more educated
- 5. Increase in web traffic around Bank Crises for banks with lower branch density

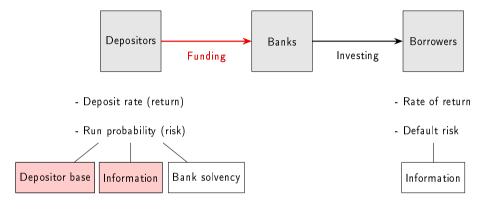
1. Very nice paper! Clear and thorough.

- 1. Very nice paper! Clear and thorough.
- 2. I am convinced that heterogeneity in branch density captures differences in the banks' business models
  - ▶ Is just the deposit composition channel? How important is it?

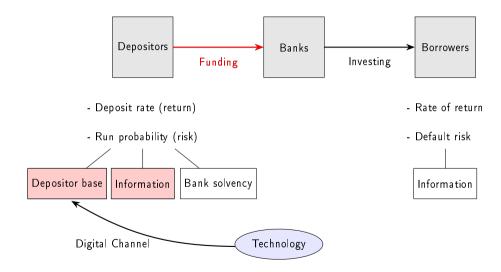


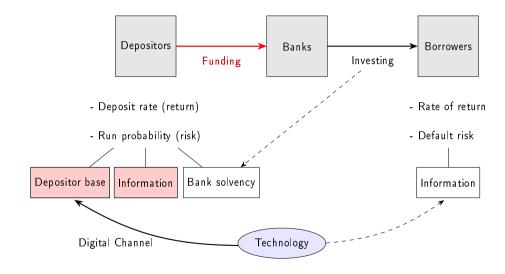












- 1. Very nice paper! Clear and thorough. Not much to add to this paper.
- 2. I am convinced that heterogeneity in branch density captures differences in the banks' business models
  - ▶ Is it just the depositor composition channel? Can we dig deeper?
- 3. Investment model of bank's is also affected by digital banking (and IT spending)
  - (a) Large inflows of deposits affect the composition of a bank's loan portfolio
    - Banks' specialization increases after unexpected inflows (Blickle et al. (2023))
  - May also increase exposure to interest rate risk
  - More differentiation across banks?

- 1. Very nice paper! Clear and thorough. Not much to add to this paper.
- 2. I am convinced that heterogeneity in branch density captures differences in the banks' business models
  - ▶ Is it just the depositor composition channel? Can we dig deeper?
- 3. Investment model of bank's is also affected by digital banking (and IT spending)
  - (a) Large inflows of deposits affect the composition of a bank's loan portfolio
    - Banks' specialization increases after unexpected inflows (Blickle et al. (2023))
    - May also increase exposure to interest rate risk
    - More differentiation across banks?
  - (b) Digital banking goes beyond making it easier to bank!
    - Changes how banks gather information about depositors and borrowers
    - Bank competition is affected by IT spending (Vives and Ye (2023), He et al. (2024))

- 1. Very nice paper! Clear and thorough. Not much to add to this paper.
- 2. I am convinced that heterogeneity in branch density captures differences in the banks' business models
  - ▶ Is it just the depositor composition channel? Can we dig deeper?
- 3. Investment model of bank's is also affected by digital banking (and IT spending)
  - (a) Large inflows of deposits affect the composition of a bank's loan portfolio
    - Banks' specialization increases after unexpected inflows (Blickle et al. (2023))
    - May also increase exposure to interest rate risk
  - More differentiation across banks?
  - (b) Digital banking goes beyond making it easier to bank!
    - Changes how banks gather information about depositors and borrowers
    - Bank competition is affected by IT spending (Vives and Ye (2023), He et al. (2024))
- 4. In equilibrium, the funding and investment side are linked. Can branch density isolate the funding side?

- 1. Very nice paper! Clear and thorough. Not much to add to this paper.
- 2. I am convinced that heterogeneity in branch density captures differences in the banks' business models
  - ▶ Is it just the depositor composition channel? Can we dig deeper?
- 3. Investment model of bank's is also affected by digital banking (and IT spending)
  - (a) Large inflows of deposits affect the composition of a bank's loan portfolio
    - Banks' specialization increases after unexpected inflows (Blickle et al. (2023))
    - May also increase exposure to interest rate risk
  - More differentiation across banks?
  - (b) Digital banking goes beyond making it easier to bank!
    - Changes how banks gather information about depositors and borrowers
    - Bank competition is affected by IT spending (Vives and Ye (2023), He et al. (2024))
- 4. In equilibrium, the funding and investment side are linked. Can branch density isolate the funding side?
- 5. Implications for financial stability?