# Introduction

# Literature Review

Alexakis et al. ([2023](#ref-alexakis2023animal))

# Data and Methodology

| Series | Median | SD | Min | Max | IQR | Obs |
| --- | --- | --- | --- | --- | --- | --- |
| Lending growth | | | | | | |
| Three month change in log commercial mortgages to corporates and households | 1.16 | 1.08 | -1.43 | 3.81 | 1.67 | 153 |
| Three month change in log household unsecured lending | 1.43 | 2.49 | -10.40 | 10.08 | 1.78 | 153 |
| Three month change in log leasing and installments to corporates | 1.32 | 1.48 | -1.69 | 6.82 | 2.04 | 153 |
| Three month change in log leasing and installments to households | 1.15 | 1.29 | -2.56 | 4.63 | 1.54 | 153 |
| Three month change in log non-financial corporate unsecured lending | 1.54 | 2.85 | -9.17 | 8.04 | 3.58 | 153 |
| Three month change in log residential mortgages to households | 0.77 | 0.59 | -0.78 | 2.33 | 0.73 | 153 |
| Three month change in log total leasing and installments | 1.30 | 1.12 | -1.53 | 3.58 | 1.37 | 153 |
| Three month change in log total mortgage lending | 1.01 | 0.52 | -0.11 | 1.96 | 0.65 | 153 |
| Three month change in log total unsecured lending | 1.55 | 2.20 | -5.57 | 7.36 | 2.68 | 153 |
| Lending rates | | | | | | |
| Commercial mortgages to corporates and households rate | 8.06 | 1.05 | 6.16 | 9.99 | 1.55 | 156 |
| Household unsecured lending rate | 14.17 | 2.63 | 4.78 | 15.67 | 2.19 | 156 |
| Leasing and installements to corporate rate | 9.40 | 0.84 | 7.05 | 10.46 | 1.38 | 156 |
| Leasing and installments to households rate | 10.63 | 0.96 | 8.85 | 11.91 | 2.06 | 156 |
| Non financial corporate unsecured lending rate | 7.26 | 0.75 | 6.02 | 8.48 | 1.28 | 156 |
| Residential mortgages to household rate | 8.64 | 1.24 | 6.78 | 10.28 | 2.27 | 156 |
| Total leasing and installments rate | 10.26 | 0.91 | 8.29 | 11.44 | 1.75 | 156 |
| Total mortgages lending rate | 8.40 | 1.17 | 6.59 | 10.19 | 1.99 | 156 |
| Total unsecured lending rate | 9.58 | 1.04 | 6.30 | 10.74 | 1.46 | 156 |
| Macroprudential regulation narrative indices | | | | | | |
| Draft Index | 0 | 0.25 | 0 | 1 | 0 | 156 |
| Implementation Index | 0 | 0.27 | 0 | 1 | 0 | 156 |
| Competition regulation narrative indices | | | | | | |
| All credit entry entry index | 0 | 0.29 | 0 | 1 | 0 | 156 |
| All credit entry exit index | 0 | 0.14 | 0 | 1 | 0 | 156 |
| All entry index | 0 | 0.40 | 0 | 1 | 0 | 156 |
| All exit index | 0 | 0.32 | 0 | 1 | 0 | 156 |
| Commercial mortgages entry | 0 | 0.11 | 0 | 1 | 0 | 156 |
| Commercial mortgages exit | 0 | 0.11 | 0 | 1 | 0 | 156 |
| Corporate credit entry index | 0 | 0.19 | 0 | 1 | 0 | 156 |
| Corporate credit exit index | 0 | 0.11 | 0 | 1 | 0 | 156 |
| Corporate entry index | 0 | 0.31 | 0 | 1 | 0 | 156 |
| Corporate exit index | 0 | 0.22 | 0 | 1 | 0 | 156 |
| Corporate leasing entry index | 0 | 0.08 | 0 | 1 | 0 | 156 |
| Entry mortgages households index | 0 | 0.08 | 0 | 1 | 0 | 156 |
| Exit mortgages households index | 0 | 0.11 | 0 | 1 | 0 | 156 |
| Finance regulation index | 0 | 0.29 | 0 | 1 | 0 | 156 |
| Financial inclusion index | 0 | 0.08 | 0 | 1 | 0 | 156 |
| Household credit entry index | 0 | 0.22 | 0 | 1 | 0 | 156 |
| Household credit exit index | 0 | 0.08 | 0 | 1 | 0 | 156 |
| Household entry index | 0 | 0.30 | 0 | 1 | 0 | 156 |
| Household exit index | 0 | 0.22 | 0 | 1 | 0 | 156 |
| Household leasing entry index | 0 | 0.08 | 0 | 1 | 0 | 156 |
| Household leasing exit index | 0 | 0.14 | 0 | 1 | 0 | 156 |
| Other competition index | 0 | 0.18 | 0 | 1 | 0 | 156 |
| Controls | | | | | | |
| Consumer confidence index | -8 | 10 | -33 | 26 | 10 | 154 |
| Repo rate | 6 | 1 | 4 | 7 | 2 | 154 |
| SAVIT40 index | 18 | 4 | 13 | 38 | 5 | 154 |

**?(caption)**

# Results

## Macroprudential regulation

|  | Total | | | Corporations | | | Households | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Draft regulations estimates | | | | | | | | | |
| draft | 0.62 | 2.23\*\* | -0.19\*\*\* | 0.41 | 0.89\*\* | -0.41\*\* | 1.00\*\* | 3.11\*\* | -0.16 |
| Implementation estimates | | | | | | | | | |
| implementation | 1.82\*\*\* | 0.51 | -0.62\*\* | 2.33\*\*\* | 1.24\* | -1.44\*\* | 0.62 | -0.09 | -0.27\*\* |
| Num.Obs. | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 |
| Bank Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | | | | | | | | |

**?(caption)**

|  | Total | | | Corporations | | | Households | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Draft regulations estimates | | | | | | | | | |
| draft | 0.38\*\*\* | -0.39\*\*\* | -0.50\*\*\* | 0.31\*\*\* | -0.45\*\*\* | -0.20 | 0.39\*\* | -0.36\*\*\* | -0.60\*\*\* |
| Implementation estimates | | | | | | | | | |
| implementation | 2.59\*\*\* | -0.51\*\*\* | -0.61\*\* | 2.30\*\* | -0.73\*\*\* | -0.77\*\* | 3.04\*\*\* | -0.41\*\*\* | -0.58\*\* |
| Num.Obs. | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 |
| Bank Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | | | | | | | | |

**?(caption)**

## Competition regulation

|  | (1) | (2) |
| --- | --- | --- |
| Corporation estimates | | |
| entry\_credit\_non\_fin\_dummy | 0.65\*\* | 0.21 |
| exit\_credit\_non\_fin\_dummy | 0.88\*\* | -1.18\*\*\* |
| covid\_dummy | -0.43\* | -0.11 |
| Households estimates | | |
| entry\_credit\_households\_dummy | 1.14\*\*\* | -0.30\*\*\* |
| exit\_credit\_households\_dummy | 1.47\*\*\* | -0.62\*\*\* |
| covid\_dummy | -1.32\*\*\* | -0.54\*\*\* |
| Num.Obs. | 768 | 768 |
| Bank Fixed Effects | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | |

**?(caption)**

|  | (1) | (2) |
| --- | --- | --- |
| Corporation estimates | | |
| entry\_commercial\_mortgages\_dummy | -0.34\*\* | -0.23\*\* |
| exit\_commercial\_mortgages\_dummy | -0.19 | -0.11 |
| covid\_dummy | -1.47\*\* | -0.13 |
| Households estimates | | |
| entry\_mortgages\_households\_dummy | -0.43\*\*\* | -0.18\*\*\* |
| exit\_mortgages\_households\_dummy | 0.06 | -0.02 |
| covid\_dummy | -1.93\*\*\* | 0.22\*\* |
| Num.Obs. | 768 | 768 |
| Bank Fixed Effects | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | |

**?(caption)**

|  | (1) | (2) |
| --- | --- | --- |
| Corporation estimates | | |
| entry\_leasing\_non\_fin\_corporate\_dummy | 0.27 | 0.00 |
| covid\_dummy | -1.75\*\*\* | 0.18\*\* |
| Households estimates | | |
| entry\_leasing\_households\_dummy | -0.09 | -0.26\*\*\* |
| exit\_leasing\_households\_dummy | -0.47\*\*\* | 0.62\*\* |
| covid\_dummy | -1.55\*\*\* | -0.18 |
| Num.Obs. | 768 | 768 |
| Bank Fixed Effects | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | |

**?(caption)**

|  | (1) | (2) | (3) | (4) | (5) | (6) |
| --- | --- | --- | --- | --- | --- | --- |
| Financial inclusion estimates | | | | | | |
| financial\_inclusion\_dummy | -0.30\*\*\* | 0.21 | -0.63\*\*\* | 2.16\*\*\* | -1.94 | -0.19 |
| covid\_dummy | -0.66\*\* | -1.57\*\*\* | -1.84\*\*\* | -0.28\*\* | -0.01 | 0.09 |
| Other competition developments estimates | | | | | | |
| competition\_dummy | 1.28\*\*\* | -0.58\*\*\* | -0.76\*\*\* | 1.05\*\*\* | 0.11 | 0.09\* |
| covid\_dummy | -0.64\*\* | -1.58\*\*\* | -1.87\*\*\* | -0.20 | -0.06 | 0.09 |
| Micro-regulations estimates | | | | | | |
| finance\_regulation\_dummy | 0.99\*\*\* | -0.18\* | -0.31\* | -0.36\*\* | -0.10 | -0.02 |
| covid\_dummy | -0.62\*\* | -1.58\*\*\* | -1.87\*\*\* | -0.24\* | -0.06 | 0.09 |
| Num.Obs. | 768 | 768 | 768 | 768 | 768 | 768 |
| Bank Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | | | | | |

**?(caption)**

# Conclusion

# References

Alexakis, Christos, Antonios Chantziaras, Fotini Economou, Konstantinos Eleftheriou, and Christos Grose. 2023. “Animal Behavior in Capital Markets: Herding Formation Dynamics, Trading Volume, and the Role of COVID-19 Pandemic.” *The North American Journal of Economics and Finance* 67: 101946.

# Appendix

## Data sources

|  | Description | Availability | Source |
| --- | --- | --- | --- |
| Macroprudential narrative index |  | Public data | Own analysis |
| Competition narrative index |  | Public data | Own analysis |
| BA900 | Banking sector balance sheet data at a bank level | Public data | South African Reserve Bank |
| BA930 | Banking sector lending rates at a bank level | Aggregated data is public. Bank specific data is private | South African Reserve Bank |
| Controls | Banking sector performance data at a bank level | Aggregated data is public. Bank specific data is private | Prudential Authority |

**?(caption)**

## Aggregation scheme

| BA 900 Categories | Item Number | Sector | Aggregation Key |
| --- | --- | --- | --- |
| Installment sales | 141 | Financial corporate sector | - |
|  | 142 | Non financial corporate sector | g |
|  | 143 | Household sector | h |
|  | 144 | Other | - |
| Leasing transactions | 146 | Financial corporate sector | - |
|  | 147 | Non financial corporate sector | g |
|  | 148 | Household sector | h |
|  | 149 | Other | - |
| Farm mortgages | 152 | Non financial corporate sector | d |
|  | 153 | Household sector | d |
|  | 154 | Other | - |
| Residential mortgages | 156 | Non financial corporate sector | e |
|  | 157 | Household sector | - |
|  | 158 | Other | - |
| Commercial and other mortgages | 160 | Public financial corporates | - |
|  | 161 | Public non-financial corporates | - |
|  | 162 | Private financial corporate | d |
|  | 163 | Private non-financial corporates | d |
|  | 164 | Household sector | - |
|  | 165 | Other | - |
| Credit cards | 167 | Financial corporate sector | a |
|  | 168 | Non financial corporate sector | b |
|  | 169 | Household sector | - |
|  | 170 | Other | - |
| Overdrafts | 178 | Public sector (includes public corporations and local government) | - |
|  | 181 | Financial corporate sector | - |
|  | 182 | Non financial corporate sector | - |
|  | 183 | Unincorporated business enterprises | a |
|  | 184 | Other Household sector | - |
|  | 185 | Non-profit organisations serving households | b |
| Factoring debtors | 187 |  | - |
| Other loans and advances | 189 | Financial corporate sector | - |
|  | 190 | Non financial corporate sector | a |
|  | 191 | Unincorporated business enterprises | - |
|  | 192 | Other Household sector | b |
|  | 193 | Non-profit organisations serving households | - |
|  |  |  |  |

**?(caption)**

The following aggregation scheme which results in nine categories was followed based on **?@tbl-scheme**:

1. Non-financial corporate unsecured lending: Items 168 + 183 + 190
2. Household unsecured lending: Items 169 + 185 + 192
3. Total unsecured lending: Non-financial corporate unsecured lending + Household unsecured lending
4. Commercial mortgages to corporates and households: Items 152 + 153 + 156 + 163 + 164
5. Residential mortgages to household: Item 157
6. Total mortgage lending: Commercial mortgages to corporates and households + Residential mortgages to household
7. Leasing and instalments to corporates: Items 142 + 147
8. Leasing and instalments to households: Items 143 + 148
9. Total leasing and instalments: Leasing and instalments to corporates + Leasing and instalments to households

## Bank lending rates weighting scheme

The loans quantities from the BA900s are then linked to the lending rate data from the BA930s using table to create nine lending rate categories the schema on **?@tbl-scheme\_1**. The weights for each category are then calculated by dividing the total value of the loans in each category by the total value of all loans in the BA900s. The weights are then used to calculate the weighted average lending rate for each month. The weighted average lending rate is calculated by multiplying the lending rate for each category by the weight for that category and then summing the results.

| Sector | BA 930 Categories | Item Number | Weighting Key |
| --- | --- | --- | --- |
| Corporate sector | Overdraft rate | 48 | a and c |
|  | Instalment sale agreements flexible rate | 49 | g and i |
|  | Instalment sale fixed rate | 50 | - |
|  | Leasing transactions flexible rate | 51 | g and i |
|  | Leasing transactions fixed rate | 52 | - |
|  | Mortgage advances flexible rate | 53 | d and f |
|  | Mortgage advances fixed rate | 54 | - |
|  | Credit card rate | 55 | a and c |
|  | Other | 56 | a and c |
| Household sector | Overdraft rate | 58 | b and c |
|  | Instalment sale agreements flexible rate | 59 | h and i |
|  | Instalment sale fixed rate | 60 | - |
|  | Leasing transactions flexible rate | 61 | h and i |
|  | Leasing transactions fixed rate | 62 | - |
|  | Mortgage advances flexible rate | 63 | e and f |
|  | Mortgage advances fixed rate | 64 | - |
|  | Credit card rate | 65 | b and c |
|  | Other | 66 | b and c |

**?(caption)**

The nine categories, therefore, are as follows:

1. Non-financial corporate unsecured lending: Weighted average of items 55 + 48 + 56
2. Household unsecured lending: Weighted average of items 65 + 58 + 66
3. Total unsecured lending: Weighted average of items 55 + 48 + 56 + 65 + 58 + 66
4. Commercial mortgages to corporates and households: Weighted average of items 53
5. Residential mortgages to household: Item 63
6. Total mortgage lending: Weighted average of items 53 + 63
7. Leasing and instalments to corporates: Weighted average of items 49 + 51
8. Leasing and instalments to households: Weighted average of items 59 + 61
9. Total leasing and instalments: Weighted average of items 49 + 51 + 59 + 61

## Aggregated bank lending

|  |
| --- |
| Figure 1: Total aggregated bank lending |

## Weighted lending rates (aggregated)

|  |
| --- |
| Figure 2: Weighted lending rates |

## Description of narrative events

| Index | Description |
| --- | --- |
| Macroprudential | The macroprudential narrative index |
| Competition | The competition narrative index |

**?(caption)**

## Macroprudential narrative indexes

|  |
| --- |
| Figure 3: Macroprudential narrative indexes |

## Competition narrative indexes

|  |
| --- |
| Figure 4: Competition narrative indexes |

## Modelling variables description

| Name | Type | Description | Sample | Frequency |
| --- | --- | --- | --- | --- |
| Macroprudential | Index | The macroprudential narrative index | All banks | Quarterly |
| Competition | Index | The competition narrative index | All banks | Quarterly |

**?(caption)**

## Macropudential results with controls

|  | Total | | | Corporations | | | Households | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Draft regulations estimates | | | | | | | | | |
| draft | 0.64 | 2.28\*\* | -0.19\*\* | 0.42 | 0.89\*\* | -0.38 | 1.03\*\* | 3.18\* | -0.15 |
| return\_on\_assets | 104.98 | -413.87 | -86.66 | 149.74 | 250.40\*\* | -210.20 | -61.27 | -786.53 | -33.17 |
| total\_capital\_adequacy\_ratio | 23.32 | 27.84 | 3.52 | 18.53 | 14.14 | 20.13 | 35.24 | 36.15 | 0.10 |
| Implementation estimates | | | | | | | | | |
| implementation | 1.52\*\*\* | 1.19 | -0.49\*\* | 1.98\*\*\* | 0.69 | -1.18\*\* | 0.55 | 1.29 | -0.21\* |
| return\_on\_assets | 87.24 | -425.50 | -80.94 | 126.16 | 243.17\*\* | -196.31 | -66.63 | -798.14 | -30.83 |
| total\_capital\_adequacy\_ratio | 21.36 | 25.32 | 4.14 | 16.20 | 12.92 | 21.59 | 34.09 | 33.05 | 0.40 |
| Num.Obs. | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 |
| Bank Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | | | | | | | | |

**?(caption)**

|  | Total | | | Corporations | | | Households | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Draft regulations estimates | | | | | | | | | |
| draft | 0.41\* | -0.38\*\*\* | -0.47\*\*\* | 0.36 | -0.44\*\*\* | -0.18 | 0.39\*\* | -0.35\*\*\* | -0.57\*\*\* |
| return\_on\_assets | 584.54\*\*\* | -79.07\* | -121.05 | 515.32\*\*\* | -107.26 | -112.38 | 601.51\*\*\* | -64.31\*\* | -128.11 |
| total\_capital\_adequacy\_ratio | 71.38\*\* | 5.00 | 17.84 | 83.98\*\* | 2.97 | 11.83 | 39.13\*\* | 5.72 | 20.87 |
| Implementation estimates | | | | | | | | | |
| implementation | 1.05\*\*\* | -0.40\*\*\* | -0.49\*\*\* | 0.80 | -0.56\*\*\* | -0.64\*\*\* | 1.67\*\*\* | -0.33\*\* | -0.47\*\*\* |
| return\_on\_assets | 572.34\*\*\* | -74.68\*\* | -115.69 | 506.04\*\*\* | -101.03 | -104.79 | 581.66\*\*\* | -60.70\*\* | -123.16 |
| total\_capital\_adequacy\_ratio | 70.05\*\* | 5.63 | 18.61 | 82.93\*\* | 3.81 | 12.61 | 37.14\*\* | 6.27 | 21.67 |
| Num.Obs. | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 | 580 |
| Bank Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | | | | | | | | |

**?(caption)**

## Competition results with controls

|  | (1) | (2) |
| --- | --- | --- |
| Corporation estimates | | |
| entry\_credit\_non\_fin\_dummy | -0.03 | 0.27 |
| exit\_credit\_non\_fin\_dummy | -0.13\*\* | -1.68\*\*\* |
| covid\_dummy | 0.31 | 0.09 |
| repo | 0.58\*\* | -0.33\* |
| consumer\_confidence\_index | 0.01\*\*\* | 0.03\*\*\* |
| return\_on\_assets | 62.83 | 214.51\*\*\* |
| savit40 | 0.00 | 0.09\*\*\* |
| Households estimates | | |
| entry\_credit\_households\_dummy | 0.05 | -0.29\*\*\* |
| exit\_credit\_households\_dummy | -0.16\*\* | -0.34\* |
| covid\_dummy | -1.69\*\* | -1.37\*\*\* |
| repo | 0.57\*\*\* | -0.27\*\* |
| consumer\_confidence\_index | 0.00 | 0.01\*\* |
| return\_on\_assets | -52.93 | -59.41 |
| savit40 | -0.01 | 0.03\*\*\* |
| Num.Obs. | 604 | 604 |
| Bank Fixed Effects | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | |

**?(caption)**

|  | (1) | (2) |
| --- | --- | --- |
| Corporation estimates | | |
| entry\_commercial\_mortgages\_dummy | 0.02 | -0.23\*\*\* |
| exit\_commercial\_mortgages\_dummy | -0.10 | -0.13 |
| repo | 0.61\* | 0.32\*\* |
| consumer\_confidence\_index | 0.01 | 0.00 |
| return\_on\_assets | 159.03 | -49.45 |
| savit40 | 0.00 | 0.00 |
| covid\_dummy | 0.85\* | 0.35 |
| Households estimates | | |
| entry\_mortgages\_households\_dummy | -0.04\*\* | -0.17\*\*\* |
| exit\_mortgages\_households\_dummy | 0.07 | -0.04 |
| repo | 1.25\*\*\* | 0.08 |
| consumer\_confidence\_index | 0.01\*\*\* | 0.00\*\* |
| return\_on\_assets | -25.23\*\* | 2.09 |
| savit40 | -0.02\*\*\* | -0.01\*\*\* |
| covid\_dummy | 0.91\*\*\* | 0.48\*\*\* |
| Num.Obs. | 604 | 604 |
| Bank Fixed Effects | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | |

**?(caption)**

|  | (1) | (2) |
| --- | --- | --- |
| Corporation estimates | | |
| entry\_leasing\_non\_fin\_corporate\_dummy | 0.16 | 0.04 |
| covid\_dummy | -0.75 | -0.48\*\*\* |
| repo | 0.79\*\*\* | -0.22\*\* |
| consumer\_confidence\_index | 0.00 | 0.00 |
| return\_on\_assets | -184.38 | 27.03 |
| savit40 | 0.01 | 0.00 |
| Households estimates | | |
| entry\_leasing\_households\_dummy | 0.04 | -0.31\*\*\* |
| exit\_leasing\_households\_dummy | 0.03 | 0.53\*\*\* |
| covid\_dummy | -0.12 | -0.40 |
| repo | 0.78\*\*\* | -0.25\*\* |
| consumer\_confidence\_index | 0.00\*\* | 0.01\*\* |
| return\_on\_assets | -85.21 | 6.74 |
| savit40 | -0.01 | 0.00 |
| Num.Obs. | 604 | 604 |
| Bank Fixed Effects | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | |

**?(caption)**

|  | (1) | (2) | (3) | (4) | (5) | (6) |
| --- | --- | --- | --- | --- | --- | --- |
| Financial inclusion estimates | | | | | | |
| financial\_inclusion\_dummy | 0.21\* | 0.33\*\*\* | 0.11\*\*\* | 2.61\*\*\* | -0.34 | -0.08 |
| covid\_dummy | -0.41 | -0.29 | 0.87\*\*\* | -0.15 | -0.44\* | 0.34\* |
| repo | 0.45\*\* | 0.78\*\*\* | 1.08\*\*\* | -0.28\* | -0.23\*\*\* | 0.11\*\* |
| consumer\_confidence\_index | 0.01\* | 0.00 | 0.01\*\*\* | 0.02\*\*\* | 0.01\*\* | 0.00 |
| return\_on\_assets | 58.02 | -118.63 | 29.13 | 147.08\*\*\* | 10.34 | -7.19 |
| savit40 | -0.01 | 0.00 | -0.02\*\*\* | 0.04\*\*\* | 0.00 | 0.00 |
| Other competition developments estimates | | | | | | |
| competition\_dummy | 0.05 | -0.04 | -0.01 | 0.57 | -0.12 | 0.19\*\*\* |
| covid\_dummy | -0.42 | -0.30 | 0.87\*\*\* | -0.20 | -0.44\* | 0.35\* |
| repo | 0.45\* | 0.78\*\*\* | 1.08\*\*\* | -0.28\*\* | -0.23\*\*\* | 0.12\*\* |
| consumer\_confidence\_index | 0.00\* | 0.00 | 0.01\*\*\* | 0.02\*\*\* | 0.01\*\* | 0.00 |
| return\_on\_assets | 57.07 | -120.25 | 28.61 | 135.16\*\*\* | 11.86 | -6.60 |
| savit40 | -0.01 | 0.00 | -0.02\*\*\* | 0.05\*\*\* | 0.00 | -0.01 |
| Micro-regulations estimates | | | | | | |
| finance\_regulation\_dummy | 0.00 | 0.03 | 0.00 | -0.58\*\*\* | -0.14\* | 0.01 |
| covid\_dummy | -0.42 | -0.29 | 0.87\*\*\* | -0.38 | -0.47\* | 0.34\* |
| repo | 0.45\* | 0.78\*\*\* | 1.08\*\*\* | -0.31\*\* | -0.23\*\*\* | 0.12\*\* |
| consumer\_confidence\_index | 0.01\* | 0.00 | 0.01\*\*\* | 0.02\*\*\* | 0.01\*\* | 0.00 |
| return\_on\_assets | 57.00 | -120.10 | 28.60 | 132.57\*\*\* | 11.50 | -6.77 |
| savit40 | -0.01 | 0.00 | -0.02\*\*\* | 0.06\*\*\* | 0.00 | -0.01 |
| Num.Obs. | 604 | 604 | 604 | 604 | 604 | 604 |
| Bank Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes |
| Monthly Fixed Effects | Yes | Yes | Yes | Yes | Yes | Yes |
| \* p < 0.1, \*\* p < 0.05, \*\*\* p < 0.01 | | | | | | |

**?(caption)**