# Basel III and the supply of bank credit in South Africa

Alister Milner\* Xolani Sibande $^\dagger$ 

October 18, 2022

#### Abstract

Keywords: Bank capital, Bank regulation, Credit

**JEL Codes**: G01, G18, G28, G32, G38

### 1 Introduction

The paper investigates the impact of Basel III regulation on bank lending in South Africa. This introduction is an overview of the paper

#### 2 Context

A review of policy context, with focus on South Africa but also reference to other emerging markets. Further detail in Appendix 1 and 2a.

#### 3 Literature

Osborne et al. (2017)

Jokipii and Milne (2008)

Gambacorta and Mistrulli (2004)

Schwert (2018)

Kim and Sohn (2017)

Carlson et al. (2013)

Tabak et al. (2011)

Altunbas et al. (2004)

Gambacorta and Shin (2018)

Berrospide and Edge (2010)

### 4 Developments in South African Banking

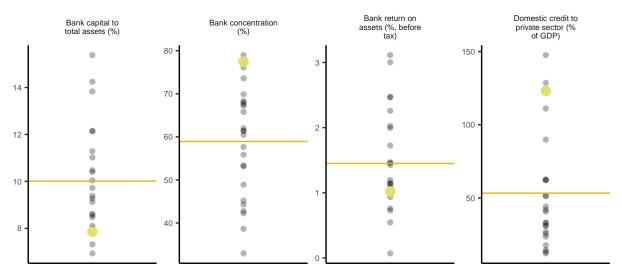


Figure 1: Internatinal Comparison. Source: World Bank (2022)

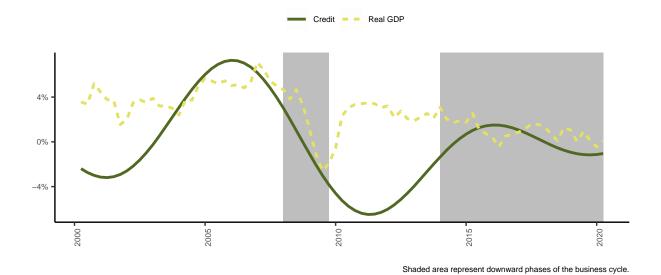


Figure 2: Credit Cycle. Source: South African Reserve Bank (2022)

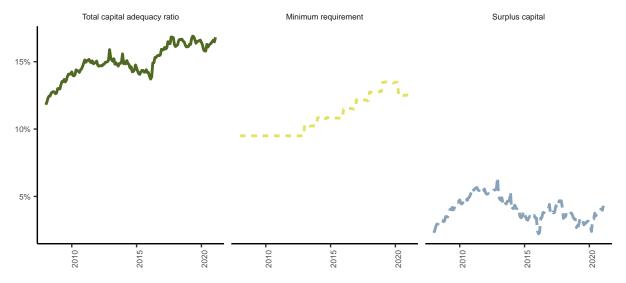


Figure 3: Capital Buffers. Source: South African Reserve Bank (2022)

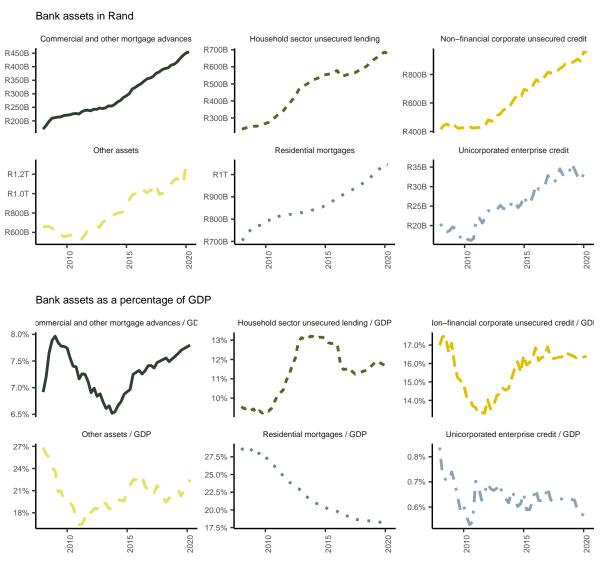


Figure 4: Bank assets. Source: South African Reserve Bank (2022)

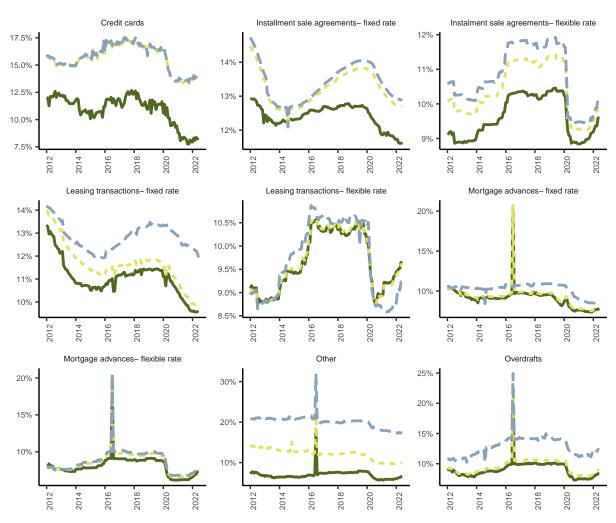


Figure 5: Lending Rates. Source: South African Reserve Bank (2022)

# 5 Specification

Variable	Median	SD	Min	Max	IQR	Obs
Capital buffer	4.1	0.9	2.3	5.8	1.3	44
Commercial and other mortgage advances / GDP	7.3	0.4	6.5	8.0	0.6	44
Household sector unsecured lending / GDP	11.5	1.4	9.2	13.2	3.1	44
Non-financial corporate unsecured credit / GDP	15.9	1.3	13.3	17.5	2.0	44
Other assets / GDP	19.9	2.4	16.4	26.8	3.0	44
Real GDP	1.9	1.6	-2.6	4.7	2.3	44
Residential mortgages / GDP	22.0	3.6	17.9	28.8	6.6	44
Unicorporated enterprise credit / GDP	0.6	0.1	0.5	8.0	0.1	44

Table 1: Descriptives

### 6 Estimation Results

### 7 Conclusion

## 8 Appendix: Descriptive Analysis

- 8.1 Data
- 8.1.1 Capital Buffers
- 8.1.2 BA 900 Quartelty Data
- 8.1.3 BA 900 to GDP

# 9 Appendix: Detailed Literature Review

More detailed literature review

#### References

- Altunbas, Y, De Bondt, G and Marques-Ibanez, D. 2004. 'Bank capital, bank lending, and monetary policy in the euro area'. *Kredit und Kapital*.
- Berrospide, J M and Edge, R M. 2010. 'The effects of bank capital on lending: What do we know, and what does it mean?'  $\cdot$
- Carlson, M, Shan, H and Warusawitharana, M. 2013. 'Capital ratios and bank lending: A matched bank approach'. *Journal of Financial Intermediation* 22: 663–687.
- Gambacorta, L and Mistrulli, P E. 2004. 'Does bank capital affect lending behavior?' *Journal of Financial intermediation* 13: 436–457.
- Gambacorta, L and Shin, H S. 2018. 'Why bank capital matters for monetary policy'. *Journal of Financial Intermediation* 35: 17–29.
- Jokipii, T and Milne, A. 2008. 'The cyclical behaviour of european bank capital buffers'. *Journal of banking & finance* 32: 1440–1451.
- Kim, D and Sohn, W. 2017. 'The effect of bank capital on lending: Does liquidity matter?' Journal of Banking & Finance 77: 95–107.
- Osborne, M, Fuertes, A M and Milne, A. 2017. 'In good times and in bad: Bank capital ratios and lending rates'. *International Review of Financial Analysis* 51: 102–112.
- Schwert, M. 2018. 'Bank capital and lending relationships'. The Journal of Finance 73: 787–830.
- Tabak, B M, Noronha, A C and Cajueiro, D. 2011. 'Bank capital buffers, lending growth and economic cycle: empirical evidence for brazil', in 2nd BIS CCA Conference on "Monetary policy, financial stability and the business cycle, Citeseer, 12–13.