Breaking the Credit Barrier: Structural Challenges of SME Financing in New Zealand

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Contents

Abstract	2
Issue	3
Background	3
Current State	4
Analysis Impact on Investments	5 5 6 11
Conclusions Knowledge Gap	12 12 12 13 13
Recommendations Adjusting the Risk Assessment	14 14 14 14
Appendices Calculation Details - Buying a Business	15 15 17
References	19

Abstract

This paper examines the structural barriers preventing New Zealand's small and medium-sized enterprises (SMEs) from accessing affordable debt. Despite representing 99% of all businesses and a third of national GDP, SMEs face far tighter lending conditions than residential borrowers. Through quantitative scenarios, the paper demonstrates how short loan terms, high interest rates, and restrictive loan-to-value ratios severely constrain cash flows, leading many profitable firms toward financial stress. It also highlights how regulatory incentives—particularly the Reserve Bank's high capital adequacy ratio—encourage banks to favour residential mortgages over business loans. The analysis identifies three key issues: limited understanding of cash-flow dynamics, policy-driven risk aversion among banks, and a feedback loop reinforcing SME credit scarcity. Recommended measures include recalibrating risk weights, strengthening bank verification processes, and launching nationwide financial education initiatives to help SMEs manage debt sustainably and unlock growth potential.

Issue

Kiwi SMEs, representing 99% of the total businesses and 35% of the country's GDP (MBIE, 2017), do not have access to the same lending conditions as the residential mortgage market. This briefing will provide insights into the implications of tight lending conditions for SMEs - with up to 50 employees - and recommendations on how to improve the situation.

Background

Businesses should continuously endeavour to find an **optimal mix of capital structure**. Relying excessively on loans would be unsustainable and put a company in jeopardy, but so would an insufficient level of debt. Indeed, debt lets a company generate more revenues from the same equity, yielding a higher return on equity (ROE). Debt funding is, therefore, crucial for businesses to thrive.

When facing unfavourable lending conditions from banks, large corporations can, for instance, readily issue bonds to borrow money at a lower cost of debt. However, the associated administrative toll and complexity are prohibitive for SMEs, lacking the critical mass required to leverage the slight rate difference between bonds and banks. In fact, SMEs rely almost exclusively on banks to fund their debt.

Current State

Banks generally offer **principal-and-interest** (P&I) loans, for which borrowers must pay interest and a portion of the principal each month. Under certain conditions (no bank that I contacted accepted to disclose these specific conditions), banks can allow up to 5 years of interest-only payments (ANZ, 2020).

A typical **residential mortgage** generally covers 80% of a house price with an interest rate of less than 3% (Squirrel, 2020). Most banks can even offer to fund 90 to 95% of the loan and amortize it over 30 years. Indeed, since May 2020, the Reserve Bank of New Zealand has removed the mortgage loan-to-value ratio restrictions for banks in response to the COVID-19 pandemic (Kiwibank, 2020). In contrast, banks may propose to fund around 70% of a **commercial property** (Global Finance, 2020) at 5.5% with a 15-year term (interest.co.nz, 2020). If the business owner wants to fund 100% of the asset through debt and repay over 30 years, they will have to use their own house as security (Global Finance, 2020).

Otherwise, for a **business loan**, the bank will agree to fund 50% of the investment at an 8% interest rate with a 5-year repayment period (Global Finance, 2020). Again, the owner would need to secure the loan with their home to fund up to 80% of their house value through debt (Global Finance, 2020).

	Residential mortgage	Commercial	property loan	Busine	ss loan	ı
	Troolectical more gage		Secured		Secured	L
LVR	80-95%	70%	100%	50%	80%	
Interest rate	2.75%	5.5%	5.5%	8%	8%	
Term	30 years	15 years	30 years	5 years	5 years	
		'	•	e.g. owner's hous as security		'

Figure 1: Differences in lending conditions depending on the type of loan.

Analysis

Impact on Investments

For a given return on assets, the **return on equity** (ROE) will change dramatically depending on the loan-to-value ratio (LVR). A lower LVR implies a higher initial investment and, therefore, a lower ROE (see example below).

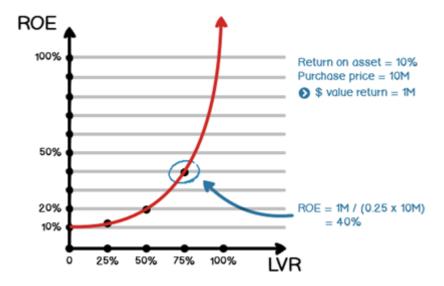


Figure 2: Relationship between the return on equity (ROE) and the loan-to-value ratio (LVR).

Consequently, bank policies impact the firm's ability to develop.

However, poor lending conditions have a much more profound effect on SMEs. Understanding the magnitude of this impact requires knowing the difference between **profit and cash flows**.

Impact on Cash Flows

Profit after tax does not necessarily reflect the company's ability to pay its debts. Indeed, it also includes revenues and expenses for which cash has not yet been exchanged. For instance, when a business sells on credit, profit will go up, but the related cash inflow will only occur **later**. Similarly, expenses associated with building up inventory will be missing from the income statement until the goods are sold.

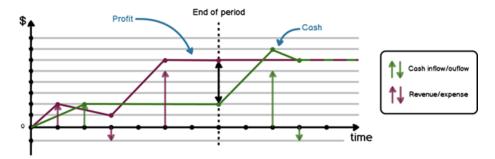


Figure 3: Profit and cash evolution over time.

Furthermore, depreciation in the income statement does not necessarily reflect the cash spent to buy and maintain fixed assets, essential to sustain the business (e.g. computers). Often, it is not a reasonable indication of long-term average capital expenditure.

Therefore, a relevant proxy for available cash flow is defined as follows.



Figure 4: Proxy for available cash flow for principal repayment.

Firms can, consequently, make a profit but still default on their debt. The scenarios below are representative of loan conditions that NZ SMEs typically encounter.

Scenario 1. Buying a business

The bank agrees to partially fund the purchase of a small machinery manufacturing business under the following conditions.

Purchasing price	\$375,000
LVR	80% (secured)
Type of loan	P&I
Term	5 years
Interest rate	8%

Assumptions for the simulation: Building up inventory and debtors during the first year, then static business (no growth and, therefore, no further movement in working capital items).

Despite making a profit, the business would struggle to pay its debt, as high-lighted by the chart below (see Appendix 1 for calculation details).

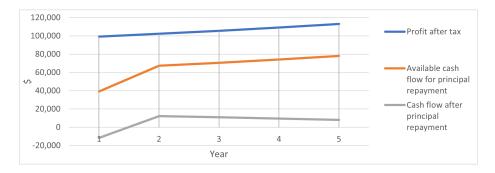


Figure 5: Projected profit after tax and cash flows.

The first year, the company would not have the cash flow to honour its principal repayment. Even if it finds a way to meet its obligations that year (e.g., by limiting its capital expenditure), the business would still be significantly exposed to financial hardship in the subsequent years. Indeed, any unexpected expense (e.g. equipment maintenance) or revenue loss could lead to a default.

More favourable lending conditions would have a positive effect on the company's cash flows, as visible in the following diagram.

Regardless of the loan type and interest rate, a 5-year loan is a significant burden on a business's ability to thrive. On the other hand, a 10-year term would let the company have enough cash flow to grow serenely.

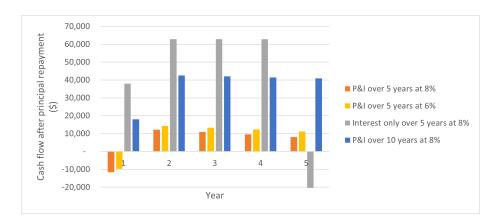


Figure 6: Cash flow after principal repayment under various loan conditions. The chart does not display Year-5 cash flow under the "Interest-only over 5 years at 8%" conditions (i.e. -\$227K) for convenience.

Scenario 2. Purchasing a commercial property

A firm purchases the property it currently operates in through a distinct entity.

Purchasing price	\$400,000
LVR	100% (secured)
Type of loan	P&I
Term	15 years
Interest rate	5.5%

Assumptions for the simulation: The loan is compounded yearly - instead of monthly - for simplification purposes.

The owning entity would make a profit from this asset, but it would still default on the debt. Indeed, the profit after tax would never be sufficient to cover the principal repayment under these conditions (see Appendix 2 for calculation details).

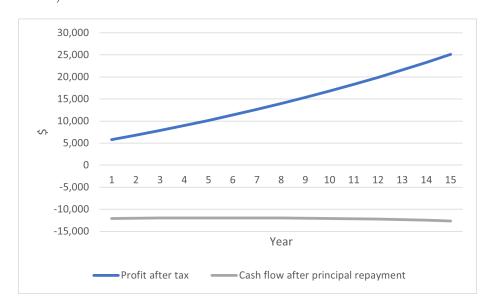


Figure 7: Projected profit after tax and cash flows.

Furthermore, the cash flow analysis below reveals that the property owner would fail to meet its obligations, whatever the interest rate, if the term remains at 15 years.

At the 5.5% interest rate, the entity would require a 30-year loan to have just enough cash flow available for principal repayment. Nevertheless, any unplanned expense would not be possible.

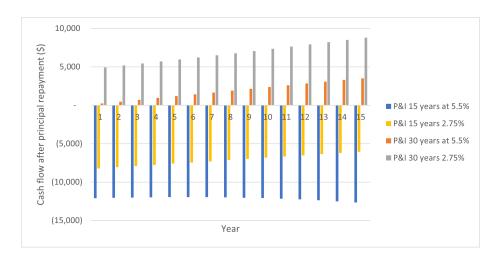


Figure 8: Cash flow after principal repayment under different loan conditions.

In contrast, if the lending conditions were the same as a residential mortgage, the property owner could honour its payments even under unexpected circumstances. Banks mainly justify this difference in lending conditions by the capital adequacy ratio (CAR) policy.

Capital Adequacy Ratio

The capital adequacy ratio is the ratio that banks must maintain between their capital and their assets (e.g., loans). In December 2019, the Reserve Bank of New Zealand (RBNZ) raised the CAR from 10.5% to 18% for the leading NZ banks (i.e., ANZ, ASB, BNZ, and Westpac) and 16% for the smaller ones (e.g., Kiwibank) (CNBC, 2019)(Vaughan, 2019). It means that banks must now hold between 16% and 18% of their loans in capital, making this CAR one of the strongest in the world (Index Mundi, 2019).

It is interesting to note that not all assets have the same weight in this ratio. Indeed, banks can discount assets depending on their **perceived risk**. Typically, in New Zealand, residential mortgage loans are considered safer than business loans. The following figure illustrates how a bank can maintain the same ratio by increasing the number of residential mortgages and reducing its exposure to business loans.

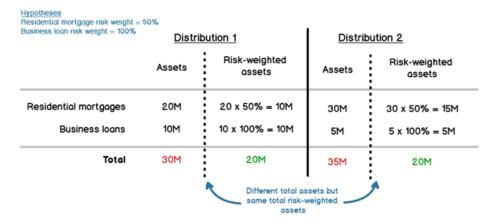


Figure 9: Examples of asset distributions yielding the same capital adequacy ratio.

The capital adequacy ratio policy thus incentivizes banks to favour residential mortgages at the expense of business loans.

Conclusions

Knowledge Gap

The lack of understanding of the difference between profit and cash flows is the primary enabler of debt default, significantly increasing the perceived risk associated with lending to businesses.

- Firms do not use a relevant proxy for available cash flow and, therefore, contract loans without having the ability to pay them back.
- Banks allow firms' behaviour by performing inadequate verifications before authorizing a loan.
- In an attempt to reduce risk, banks harden lending conditions for SMEs, which puts a financial strain on these companies and generates a *self-fulfilling prophecy*.

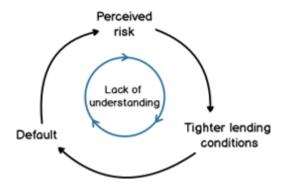


Figure 10: Loan to businesses risk cycle.

Loan Term

Loan duration is the main impediment for SMEs to secure funding through debt.

- The pressure associated with principal repayment prevents businesses from investing in fixed assets and expanding their operations, which requires investment in working capital.
- Interest-only periods could relieve this pressure momentarily, but the companies would still struggle to repay the principal as the overall interest rate is ultimately higher in these conditions.
- Debt funding is crucial for a company to leverage its existing equity and generate more earnings potentially creating a competitive edge. Since issuing bonds is virtually unachievable for SMEs, banks effectively hold them captive.

Bank Policies

Banks focus more on responding to **policy incentives** rather than assessing the risks associated with the loans they issue.

- Business owners who secure their commercial property loans with their houses are still in a worse position than they would be in the residential mortgage market, even though the risk is arguably the same.
- Commercial property investments are more sensitive to rises in the cost
 of debt compared to investments in businesses as their cost of equity
 is relatively low. This situation could generate resentment towards bank
 policies in this area.
- Bank policies are likely to fuel the current kiwi housing bubble. Therefore, the risk of residential mortgages will remain limited as long as house prices are rising. However, banks could witness a surge in the default rate if the bubble eventually bursts.
- A review of the RBNZ risk assessment policy might completely reshape the kiwi financial landscape regarding debt funding for both businesses and individuals, as banks would re-optimize their capital adequacy ratio accordingly.

Investment Opportunities

Foreign investors might seize investment opportunities at the expense of Kiwi businesses.

- Professional investors develop an expectation of the return on equity they
 require to make an investment decision. If the LVR is too low, the return
 on equity will not meet their expectations, leading them to refuse the
 investment.
- On the other hand, foreign investors may not have the same constraints regarding debt funding causing an unfair advantage over Kiwi businesses and investors.

Recommendations

Adjusting the Risk Assessment

The RBNZ could reassess the risk weight of different asset classes, considering the housing bubble, to reduce the gap between residential mortgages and business loans.

Expected effects

- Limiting the incentive to invest heavily in residential mortgages
- Balancing the banks' asset distribution
- Reducing the perceived risk associated with loans to businesses
- Easing the businesses' lending conditions

Encouraging Banks to Reinforce Verifications

Banks should intensify controls to ensure that companies will be able to repay their debts.

Expected effects

- Preventing default from businesses
- Reducing the actual risk associated with loans to businesses

Raising Awareness Towards Debt Repayment

The government should launch a campaign to educate SMEs on the difference between profit and cash flows, as well as its implications for debt repayment.

Expected effects

- Improving the overall knowledge about financing activities
- Preventing default from businesses
- Reducing the actual risk associated with loans to businesses

Appendices

Calculation Details - Buying a Business

Scenario's lending conditions

Purchase price	\$375,000
Bank loan conditions	
LVR	80%
Debt	\$300,000
Term (months)	60
Interest rate (p.a.)	8.00%
Monthly interest rate	0.667%
Monthly P&I payment	6,083
Annual P&I payment	72,995

Loan's payment schedule

Year	1	2	3	4	5
Interest	22,163	17,944	13,375	8,426	3,067
Principal repayment	50,832	55,051	59,620	$64,\!569$	69,928

Calculations are made on a monthly payment basis, but this table displays annual figures for convenience.

Cash flow analysis

Year	1	2	3	4	5
Revenues	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
COGS	600,000	600,000	600,000	600,000	600,000
\mathbf{Gros}	400,000	400,000	400,000	400,000	400,000
profit					
Expenses	200,000	200,000	200,000	200,000	200,000
EBITDA	200,000	200,000	200,000	200,000	200,000
Depreciation	40,000	40,000	40,000	40,000	40,000
Interest	22,163	17,944	13,375	8,426	3,067
Profit	137,837	$142,\!056$	146,625	151,574	156,933
before	•	·		·	•
tax					
Tax	38,594	39,776	41,055	$42,\!441$	43,941

Year	1	2	3	4	5
Profit	99,243	102,280	105,570	109,133	112,992
after tax					
Subtract	25,000	-	-	-	-
Invest-					
ment in					
working					
capital					
Add back	40,000	40,000	40,000	40,000	40,000
Deprecia-					
tion	75 000	75 000	75 000	75 000	75 000
Subtract	75,000	75,000	75,000	75,000	75,000
Invest- ment in					
fixed					
assets					
Available	39,243	$67,\!280$	70,570	$74,\!133$	$77,\!992$
cash flow	,	,	,	,	,
for re-					
payment					
Principal	50,832	$55,\!051$	59,620	$64,\!569$	69,928
repayment					
Cash	-11,589	$12,\!229$	10,950	$9,\!564$	8,064
flow after					
principal					
payment					

Calculation Details - Purchasing a Commercial Property Scenario's lending conditions

Rent	30,000
Purchase value	400,000
Bank loan conditions LVR Debt Term (years) Annual interest rate	100% 400,000 15 5.5%
Annual P&I payment	39,850

For simplification purposes, payments occur yearly.

Loan's payment schedule

Year	Interest	Principal repayment
1	22,000	17,850
2	21,018	18,832
3	19,982	19,868
4	18,890	20,960
5	17,737	22,113
6	$16,\!521$	23,330
7	$15,\!238$	24,613
8	13,884	25,966
9	12,456	27,395
10	10,949	28,901
11	9,359	30,491
12	7,682	32,168
13	5,913	33,937
14	4,047	35,804
15	2,078	37,773

Cash flow analysis

Year	Net rent	Interest	Profit from rent	Tax on profit	Profit after tax	Cash flow after princi- pal repay- ment
1	30,000	22,000	8,000	2,240	5,760	-12,090
2	30,450	21,018	$9,\!432$	2,641	6,791	-12,041
3	30,907	19,982	10,924	3,059	$7,\!865$	-12,002
4	31,370	18,890	$12,\!481$	3,495	8,986	-11,974
5	31,841	17,737	$14,\!104$	3,949	$10,\!155$	-11,958
6	32,319	$16,\!521$	15,798	4,423	$11,\!374$	-11,955
7	32,803	$15,\!238$	$17,\!566$	4,918	$12,\!647$	-11,965
8	$33,\!295$	13,884	$19,\!411$	$5,\!435$	$13,\!976$	-11,990
9	33,795	$12,\!456$	$21,\!339$	5,975	$15,\!364$	-12,030
10	34,302	10,949	$23,\!353$	$6,\!539$	16,814	-12,087
11	34,816	$9,\!359$	$25,\!457$	$7{,}128$	$18,\!329$	-12,162
12	$35,\!338$	7,682	$27,\!656$	7,744	19,912	$-12,\!255$
13	$35,\!869$	5,913	$29,\!955$	8,387	$21,\!568$	-12,369
14	36,407	4,047	$32,\!360$	9,061	$23,\!299$	$-12,\!504$
15	36,953	2,078	$34,\!875$	9,765	$25,\!110$	-12,663

Rents increase each year by 1.5%.

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