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Do Financial Inclusion, Debt Behavior Affect Business Investment? Study in Small Medium Enterprise Customers of Bank BPD Yogyakarta Indonesia

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Abstract

Bank, financial inclusion, debt behavior, and business investment greatly affect the economic growth of a region industry. The main purpose of this research is to examine the effect of bank behavior, financial inclusion, debt behavior on investment decisions of Micro, Small and Medium Enterprises customers at Bank BPD Yogyakarta, Indonesia. The research sample is BPD Yogyakarta customers Respondents as 200 entrepreneurs are customers who are in debt for business investment. The analysis model uses mediation regression with PLS. The results showed that bank behavior had a positive effect on financial inclusion. Bank behavior has a positive effect on debt behavior. Financial inclusion has a positive effect on business investment. Debt behavior has a positive effect on business investment. Financial inclusion, debt behavior mediates the influence of bank behavior on business investment. The implication of this research is that a clear bank behavior and high commitment of banks are needed in offering bank products. It takes commitment and supervision from the Bank in providing credit to customers so that the use of funds is in accordance with investment objectives.

Keywords: Bank Behavior, Financial Inclusion, Debt Behavior, Business Investment.

1. Introduction

Loan to Deposits Ratio - LDR in Yogyakarta Indonesia tends to be low, around 63%-65%. The low LDR level in the Yogyakarta Banking sector is due to the fact that more people save money than use it in the form of credit. The decline in credit growth was also caused by the impact of global conditions and the Covid-19 pandemic, which affected investment and business expansion in Yogyakarta (Indonesia Bank Yogyakarta, 2021). The sectors that support credit in order are working capital, consumption, investment, and property. When examined further, consumption credit is not purely for household needs, but also loans for business capital for entrepreneur in Yogyakarta Indonesia (Heru Kristanto, 2021).

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The amount of financing received by Cooperatives and Micro, Small and Medium Enterprises in the Special Region of Yogyakarta, the amount of financing has increased from 2018, 2019 and also in 2021. The amount of financing in 2020 has increased by 15.9696% from the previous year. Meanwhile, the number of entrepreneurs during the Covid-19 pandemic decreased and business decline (Bappeda DIY Indonesia, 2021).

Bank BPD Yogyakarta Indonesia is committed and continues to strive to increase financing acceleration to develop entrepreneurs in Yogyakarta by implementing several business strategies that favor SMEs. In addition to easy access to banking for SMEs, Bank BPD Yogyakarta is also active in providing education, training and business development workshops that will contribute to regional economic recovery. Bank BPD Yogyakarta as one of the regional economic actors in relation to financial services certainly tries to contribute to the recovery of economic growth in Yogyakarta, especially acceleration. Various financing products available at Bank BPD Yogyakarta Indonesia (www.bpddiy.co.id).

Bank behavior, such as diversification of financial service products, setting interest rates, grace periods, amount of compensation and similar products are bank behaviors that affect the behavior of customers or prospective customers. Research Heru Kristanto (2021), Herispon, H. (2019), Wuhan, L. et.al., (2015), Altunbas, Y., Binici, et al., (2017) show that bank behavior affects financial inclusion and debt behavior. Bank behavior also influences investment decisions from the funds obtained. If these expectations and policies are positively correlated with the predictions of formal financial institutions, then lending to customers is loose.

Heru Kristanto (2021), Hannig, Alfred and Stefan, Jansen (2010) revealed that financial knowledge and financial management are correlated with ups and downs in debt behavior and repayment behavior. Financial literacy as measured by financial knowledge, financial behavior, financial awareness and financial attitudes affect business investment when customers get loan funds.

Financial Inclusion services in the form of convenience and access, aimed at reaching all levels of society in banking services. If bank expectations and policies are positively correlated with predictions of formal financial institutions, then lending to the public or household sector is considered attractive. Research Glaser, et al., (2013), Hlaing, SW, and Kakinaka, M. (2017) reveal that financial inclusion facilitates understanding of bank products and is a driver of customer investment decisions.

Based on this phenomenon, the main objective of this study is to examine the effect of bank behavior, financial inclusion, debt behavior on the business investment of entrepreneurs Bank BPD Yogyakarta customers.

2. Literature Review and Hypothesis Development

Bank behavior is bank behavior in the form of rules, policies, implementation, bank procedures in order to improve bank health and improve the community's economy (Heru Kristanto, 2021). Bank behavior includes: 1) actions taken to identify customers. 2) the precautionary principle applied by formal financial institutions to their customers. 3) the bank's business is a conservative business (Altunbas, et al. l., 2017). Consumer loans for the community related to expectations and policies of formal bank operation. Expectations it includes the bank's profitability to customers, customer capacity, repayment expectations, and the value of collateral required from customers, household income and income from interest expense (Herispon, H. 2019; Wuhan, et al. l., 2015). Principle and expectations are a reference in the implementation of formal financial institutional, including bank.

In entrepreneurial life, many things are learned to achieve success and well-being. The financial management aspect is the key, where financial management is related to income and expenses within a certain period of time (Wangeci, A., 2017; Amoah, R, 2016). Financial manager need knowledge, ability, and financial management skills. Financial literacy is related to financial management on mortgages, leases, bank deposits, formation of pension funds, investments, debts and others (Mugo, 2016; Heru & Hendry, 2020).

Financial inclusion has become a global issue among developing and developed countries. Financial inclusion is a correction to financial exclusive. Hlaing, SW, and Kakinaka, M. (2017) disclose that financial inclusion is useful to maximize use, access and minimize exclusive finance. The level of financial inclusion is determined by three dimensions, namely; user, barrier, access. Financial inclusion indicators that can be used as a benchmark for financial inclusion development are: a) access that measures the ability to use formal financial services in terms of physical affordability and price. b) used to measure the actual ability of the use of financial products and services such as regularity, frequency, duration of use. c) quality to measure whether the attributes of financial products and services must meet customer needs (Luzardi, et. al., 2014; Heru Kristanto, 2021)

Becoming a customer of the Bank has the goal of saving and getting benefits such as: easy access to credit, dividends that can be received in favorable circumstances, plans for retirement, ease of arrangement for the purchase of housing or land, among others (Wameyo, 2015; Salam, 2018). A study in India by Bhushan (2014) on the relationship between investment behavior and financial literacy, found that modernization, financial products, awareness and investment preferences largely depend on individual financial literacy. That is, the higher the level of understanding of financial knowledge and financial attitude, the higher the chances of making business investment..

Child plays a role important and dominant in driving consumption and investment different between entrepreneur with varying levels of debt. Efforts made by banks are to increase the expansion of products, services and loan volumes with the aim of maximizing profits. Utilization of information technology by banks To use introduce their products through visual media, print media, radio media, internet media. The exam his to stimulate the desires and intentions of household behavior, businessman become a real behavior to own the product through debt (Heru Kristanto, 2021; Herispon, H. 2019; Wuhan, et.al., 2015). Various bank behaviors such as offers, procedures, processes credit disbursement consumers, working capital loans, investment loans affect financial inclusion. **Hypothesis 1: Bank behavior has an effect on business investment.**

Debt can make a positive or negative contribution. The positive contribution of debt in household life, entrepreneur, company is to increase the wealth of the owner. Study conducted by Argawal, Ankit. (2013), Herispon (2017) found that debt contributes to encouraging domestic life, entrepreneur, company towards the desired progress and well-being. Studies Johnson and Li (2007) found that debt can maintain and improve lifestyle. In the study of Muzeto (2014) revealed that short-term debt can increase household consumption, entrepreneur and contribute to economic growth. Finally debt is an important and useful part of modern life when debt can be managed properly. From the results of this study it was concluded that the behavior of household debt, Entrepreneur can bring businessman at a better standard of living if debt can be controlled. **Hypothesis 2: Bank behavior has an effect on debt behavior. Hypothesis 3: Debt behavior mediates the effect of bank behavior on business investment.**

The purpose of inclusive finance is to provide convenience in services and expansion that can be enjoyed by customers. Services and expansions such as: a) ease of procedures, requirements, b) competitive interest rates, c) fast loan disbursement process, d) granting credit facilities covered by cards, e) expanding marketing network by opening branch offices in certain areas, f) expanding the range of public services with ATM networks, internet banking applications, and others (Heru Kristanto, 2021; Herispon (2017). Mugo (2016), Ghauri et al. (1995), Amoah, R. (2016) reveal that healthy financial literacy because high financial literacy will make it easier to access, take risks, make decisions about bank products and services. Financial problems, financial planning and management in investment decisions for the better. Financial monitoring becomes more stringent and controlled.

Few research reveals that financial inclusion is access, community groups, and systems finance affects banking performance (Demirgüç-Kunt et al., 2008; Sarma & Pais, 2008; Sarma, 2008; Demirgüç-Kunt & Klapper, 2012). This will increase the convenience of the community in utilizing banking to get funds for business investment. On the other hand, increasing public financial literacy is needed to improve financial and economic performance a country. Hypothesis 4: Financial inclusion mediates the effect of bank behavior on business investment.

3. Research methods

The research was designed using the approach causality quantitatively through hypothesis testing and data analysis primary. Research design refers to the theory and results of empirical studies that support the hypothesis to be tested. The researcher conducts a theory review and empirical study results in order to map out the theory according to the research objectives and the conceptual framework of the research. The research sample is customers or creditors of business investment credit at Bank BPD Yogyakarta Indonesia. After successful data collection, the questionnaire was coded, input data, analyzed, interpret and concluded. To answer the hypothesis, used moderation regression (Greene, 2014; Wooldrige, 2020).

3.1. Identification and Operational Definition of Research Variables

Operational identification and definitions are used to clarify and sharpen the focus research in order to get the right results. Operational identification and definition describes the variables research, namely the dependent variable, the variables independent and media. Questionnaire using a 5 Likert scale.

Financial literacy is an important financial knowledge, financial behavior, financial awareness, financial awareness owned by customers (Heru Kristanto, 2021; Heru and Hendry, 2020; Amos, 2014; Mugo, 2016). Developed on an 8 item Likert scale. Bank behavior using indicators which refers to Bank Indonesia Regulation (PBI) no. 3/10 / PBI / 2001 concerning the Implementation of Know Your Customer Principles, Prudential Banking, Fiduciary Principles and Risk Aversion Principles. Developed on an 8 item Likert scale. Financial inclusion uses indicators that refer to the limits issued by the World Bank, namely: Access, User, Quality, and Wealth. Developed on an 8 item Likert scale. Business investment is awareness of alternative investment opportunities, investment in working capital, equipment, equipment, assets. Using 10 Likert scale items.

3.2. Model Specification Test

This research using multiple regression and mediation regression. Testing the model specifications to determine the best equation model (BLUE) and can be used to draw conclusions using the normality test, reliability, validity.

4. Results and Discussion

4.1. Factor Analysis

The econometric model in this study uses multiple regression and mediation regression (Grenne, W, 2014; Wooldridge, 2020). Varimax rotational, explanatory factor analysis using statistical tools SEM-PLS model. This study used a sample of 200 customers of the Bank BPD Yogyakarta Indonesia. We use Cronbach Alpha to measure reliability, factor loading to see validity. The measurement results can be seen in table 1.

Table 1: Construct Reliability and Validity

	Cronbach's Alpha	rho_A	Composite Reliability	Average Variance Extracted (AVE)	
Bank Behavior	0.938	0.947	0.949	0.700	
Debt Behavior	0.921	0.923	0.933	0.584	
Financial Inclusion	0.919	0.920	0.934	0.640	
Business Investment	0.928	0.929	0.939	0.607	

Source: Processed data (2021)

The reliability test in table 1. shows that the question items on the questionnaire research variables are reliable and valid. This is indicated by the magnitude of Cronbach's Alpha and rho_A 0.900. The results also show Composite Reliability 0.9, Average Variance Extracted 0.500.

4.2. Test of the Hypotheses

Based on the results of statistical tests in table 2, it shows that financial inclusion has an R Square of 0.118, debt behavior of 0.552 and business investment of 0.871. These results indicate that business investment or investment behavior can be explained by the variables of bank behavior, financial inclusion and debt behavior.

Table 2: Path Coefficients, Mean, STDEV, T-Values, P-Values

	Original	Sample	Standard	T Stats.	P
	Sample (O)	Mean (M)	Deviation	(O/STDEV)	Values
Bank Behavior -> Debt	0.744	0.745	0.028	26,345	0.000
Behavior	0.744	0.743	0.028	20,343	0.000
Bank Behavior -> Financial	0.438	0.439	0.086	5.108	0.000
Inclusion	0.436	0.439	0.080	3.106	0.000
Debt Behavior -> Business	0.126	0.127	0.053	2,396	0.017
Investment	0.120	0.127	0.055	2,390	0.017
Financial Inclusion ->	0.874	0.873	0.046	18,862	0.000
Business Investment	0.074	0.073	0.040	10,002	0.000

Source: Processed data (2021)

Table 3: Specific Indirect Effects Mean, STDEV, T-Values, P-Values

Original Sample (O)	Sample Mean (M)	Standard Deviation	T Statistics (O/STDEV)	P Values
0.094	0.095	0.039	2,381	0.018
0.383	0.383	0.075	5.072	0.000
	Sample (O)	Sample (O) Mean (M) 0.094 0.095	Sample (O) Mean (M) Deviation 0.094 0.095 0.039	Sample (O) Mean (M) Deviation (O/STDEV) 0.094 0.095 0.039 2,381

Source: Processed data (2021)

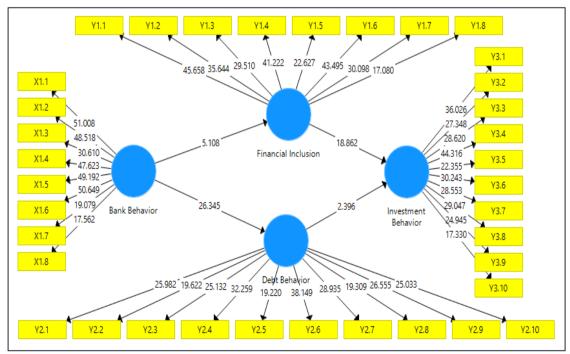


Figure 1: Path Analysis Source: Processed data (2021)

The results of statistical tests in table 2, table 3 and figure 1, it is known that the bank behavior variable has an effect on financial inclusion. This can be seen from the t-statistic of 5.108 and the p-value (≤ 0.00). Bank behavior has a positive effect on debt behavior. It can be seen from the t-statistic of 26.345 and p-value. (≤ 0.00). Financial inclusion and debt behavior affect business investment / investment behavior. It can be seen from the t-statistic of 18.86, 2.39 p-value ≤ 0.00 ,

Bank behavior has an influence on financial inclusion. This indicates that the more diverse bank behavior is, the more transparent and clear financial inclusion is needed. This research support Heru Kristanto (2021), Herispon (2019); Wuhan, et. al., (2015). The level of financial inclusion is determined by the bank's behavior, users, barriers, access. financial inclusion indicators that can be used as a benchmark for financial development

Bank behavior has an effect on debt behavior. This indicates that the easier it is to get into debt, clear rules in bank credit and credit terms, the more customers will be interested in borrowing from the bank. This research is in line with research Renanita and Hidayat (2013), Joe, D and Oh, FD (2017). The motivation of customer debt can come from: the need for company funds. chance to get luck, agreement between the giver and the recipient, bank convenience.

Financial inclusion, debt behavior is able to moderate the influence of bank behavior on investment decisions of bank customers. Customer bank has the goal of saving and getting several benefits. Benefits such as: easy access to credit, profitable dividends, plans for retirement, ease of arrangement for the purchase of housing or land among others (Wameyo, 2015; Salam, 2018). Heru and Hendry (2020), Bhushan's (2014) study found that modernization, financial products, awareness and investment preferences largely depend on individual financial literacy. That is, the higher the level of understanding of financial knowledge, the higher the chances of making investment decisions.

5. Conclusions and suggestions

This study used a sample of 200 customers of the Bank BPD Yogyakarta Indonesia. The results showed that bank behavior has an effect on financial inclusion and debt behavior. Financial inclusion and debt behavior are able to moderate the influence of bank behavior on business investment. Financial knowledge and financial management are correlated with ups and downs in debt behavior and repayment behavior. Financial knowledge, financial behavior, financial awareness and financial attitudes affect business investment when customers get loan funds.

The barriers to financial inclusion are predicted to be derived from the bank's behavior. Expectations and predictions of formal financial institutions to households about the laxity of expected expansion of credit and profit. Internal policies adopted by formal financial institutions such as: prudential banking, and risk aversion can actually be a barrier to financial inclusion. The high or low capacity and awareness of debt-paying behavior of households. Suspicion within certain limits and administrative requirements remains a constraint that will undermine household interest in relating to financial institutions (Herispon, H. (2019). The business investment or investment behavior of bank customers in using credit is largely determined by bank policies and individual behavior of bank customers.

References

- Aikman, D., Nelson, B., Tanaka, M. (2015). Reputation, risk-taking, and macro prudential policy. *Journal of Banking & Finance*. 50:428–439.
- Aller, C., Grant, C. (2018). The Effect of the Financial Crisis on Default by Spanish Households. *Journal of Financial Stability*. 36:39-52.
- Altunbas, Y., Binici, M., and Gambacorta, L. 2017. Macro prudential Policy and Bank Risk. *Journal of International Money and Finance*. 81; 203-220.
- Amoah, R. (2016). Assessing the level and impact of financial literacy on African Americans, *Dissertation from Warden University*, pp128-138.
- Anderson, R. Duru, A. and Reeb, (2012), Investment policy in family controlled Firms, *Journal of Banking and Finance*. 36, 1744-1758.

- Baker, Scott R. (2014) Debt and the Consumption Response to Household Income Shocks. *Economics Department at Stanford University*. April 2014. Pp; 1-46.
- Demsetz, H. and Lehn, (2015). The structure of corporate ownership: Causes and consequences", *Journal of Political Economy*, 92, 1155-1177.
- Ekici, Tufan and Dunn, Lucia (2007). Credit Card Debt and Consumption: Evidence from Household-Level Data. Corresponding author: Lucia Dunn, email: dunn.4 @osu.edu; phone: 614-292-8071, pp; 1-19
- Glaser, Markus., and Walther, Torsten (2013) Run, Walk, or Buy? Financial Literacy, Dual-Process Theory, and Investment Behavior. *Universität München, Munich School of Management, Schackstraße* 4, 80539 München, Germany. JEL-Classification Code: G11, D81. pp; 1-35.
- Greene, William, 2014. Econometric Analysis. Seventh Edition, Pearson New York.
- Hannig, Alfred and Stefan, Jansen (2010) Financial Inclusion and Financial Stability: Current Policy Issues. *ADBI Working Paper* 259. Tokyo: Asian Development Bank Institute. Available: http://www.adbi.org/working-paper/2010/12/21/4272.financial.inclusion.stability.policy.issues/I.
- Herispon, H. (2019). The Effect of Bank Behavior, Financial Literacy on Financial Inclusion and Debt Behavior In Household Consumption. Conference papers: https://www.researchgate.net/publication/331869416.
- Heru Kristanto, R, HC and Hendry. RG (2020). The Impact of Financial Literacy on Investment Decisions Between Saving and Credit: Studies on Sharia Bank Customers in the Special Region of Yogyakarta. *Economics and Business Quarterly Reviews*. Vol. 3. No. 4. December. https://www.asianinstituteofresearch.org/.
- Heru Kristanto, HC (2021). The Impact of Bank Behavior, Financial Literacy on Investment Decisions, Mediation of Financial Inclusion and Debt Behavior. Study on Working Capital and Investment Debtors at Regional Development Bank Yogyakarta Indonesia. *Technium Social Sciences Journal*, Vol. 23, September, pp. 626-635. www.techniumsciense.com.
- Hlaing, SW, and Kakinaka, M. 2017. Financial Crisis and Financial Policy Reform: Crisis Origins and Policy Dimensions. *European Journal of Political Economy*.1-20.
- Ingersoll, J. and Ross, E. (2012), Waiting to Invest. Investment and Uncertainty". Journal of Business, Vol 65, pg. 1 29.
- Joe, DY, and Oh, FD 2017. Foreign Investor Behavior in Korea after the 1997 Asian Financial Crisis. *Journal of the Japanese and International Economies*. 46: 69-78
- Luzardi, Annamaria., and Mitchell, Olivia S (2014) The Economic Importance of Financial Literacy: Theory and Evidence. *Journal of Economic Literature*, Vol. LII (March 2014- 52(1), pp; 5–44.
- Mahdzan, N. and Tabiani (2013). The impact of financial literacy on individual saving; an explanatory study in the context, *Transformations in the business and economics*, vol 12 pg 41-45.
- Mugo, Elizabeth. (2016). Effect of Financial Literacy on Investment Decision Cooperative Societies Member in Nairobi. KCA *University Dissertation Paper*.
- Setiawan., Moh. Agung (2015) Analysis of the Relationship of Financial Inclusion on Personal Financial Behavior of People in the City and District Regions of East Java Province. http://www.jimfeb.ub.ac.id/index.
- Renanita, T and Hidayat, R. (2013). Psychological Factors of Debt Behavior in Permanent Income Employees. *Journal of Psychology*. Volume. 40, No. 1, June 2013: 92–101
- Wangeci, A. (2017) Effects of Financial Literacy on Personal Financial Decisions Among Everton University Employees, Nakuru County, Kenya. International *Journal of Economics, Finance and Management Sciences*. Vol.5, No.3, pp. 173-181
- Wuhan, L., Suyuan, M. and Khurshid, A. (2015). The effect of interest rate on Investment. *Empirical evidence of Jiangsu Province, China*, Vol. 8, No. 1, pg. 81-90.
- Wooldridge, Jeffry, 2020. *Introductory Econometrics. A Modern Approach*. 6th Edition. South-Western Cengage Learning, United Kingdom.
- Young Park, Cyn and Mercado, Rogelio (2015) Financial Inclusion, Poverty, And Income Inequality In Developing Asia. *Asian Development Bank (ADB) Economics Working Paper series*. Number. 426 January 2015, pp; 1-25.