

---

***FINANCIAL LITERACY, FINANCIAL INCLUSION, DIGITAL FINANCIAL CAPABILITY MEDIATED BY PERSONAL FINANCE ON THE SUSTAINABILITY OF SMES IN FOOD AND BEVERAGE SMES IN KUPANG CITY***

Upik Djaniar<sup>1</sup>, Fitriningsih Amalo<sup>2</sup>, Hajrah Arifin<sup>3</sup>

<sup>1,2,3</sup>Economics, 17 Agustus 1945 University - Surabaya, Indonesia

E-mail: [udjaniar@gmail.com](mailto:udjaniar@gmail.com)<sup>1</sup>, [fitriniingsihamalo@gmail.com](mailto:fitriniingsihamalo@gmail.com)<sup>2</sup>  
[hadjraharifin1971@gmail.com](mailto:hadjraharifin1971@gmail.com)<sup>3</sup>

Received: April, 2025; Accepted: April, 2025; Published: June, 2025

**Permalink/DOI:**

---

**Abstract**

There are several problems faced by food and beverage SMEs in Kupang city, namely not being able to develop their potential and role optimally, business financial capital and individual finances have not been separated and lack of business management skills, limitations in recording financial statements. The population is 247 food and beverage SMEs in Kupang City. The characteristics are SMEs in the food and beverage sub-sector located in Kupang City and already have a business licence and registered at the Kupang City Cooperative and MSME Office and have been running their business for 5 years or more with consideration to be able to follow the sustainability of their business. The sample was 154 food and beverage SMEs in Kupang City. Quantitative analysis with SEM PLS 3. The results of this study indicate: Financial Literacy has a positive and significant effect on personal finance, Financial Inclusion has a positive and significant effect on personal finance. Digital Financial Capability has no significant effect on personal finance. Financial Literacy has no positive and significant effect on Sustainability SMEs, Financial Inclusion has no positive and significant effect on Sustainability SMEs, Digital Financial Capability has no significant effect on Sustainability SMEs, Financial personal has a positive and significant effect on Sustainability SMEs, Financial Personal has a significant effect in mediating the relationship between Financial literacy on Sustainability SMEs, Financial Personal has a significant effect in mediating the relationship between Financial Inclusion on Sustainability SMEs, Financial Personal has no significant effect in mediating the relationship between Digital Financial Capability on Sustainability SMEs.

**Keywords:** *Financial literacy, Financial inclusion, Digital financial capability, Personal finance, Sustainability SMEs*

---

**INTRODUCTION**

Business sustainability according to Widayanti et al. (2017) in Nurchayati et.al's research, 2023 is a stability of the ongoing business situation including growth, sustainability and approaches to protect business continuity and expansion. Building business sustainability requires human resources who have

---

high skills, proficiency and willingness in business management. Sustainability can be achieved if it is supported by good finance. This opinion is in accordance with the statement of Sudarmanto, E., et al. (2022) which discusses the importance of quality management systems and financial management in achieving business sustainability, including SMEs in the food and beverage sector.

There are several problems faced by SMEs, namely not being able to develop their potential and role optimally, business financial capital and individual finances have not been separated and lack of business management skills, limitations in recording financial statements.

Based on the 2024 National Survey on Financial Literacy and Inclusion (SNLIK), the East Nusa Tenggara (NTT) financial literacy index was recorded at 65.95%, ranked 15th out of 34 provinces, which shows an increase from the previous survey of 51.95%, ranked 17th out of 34 provinces in 2022. This means an increase of 14%. (SNLIK 2022 and 2024). In East Nusa Tenggara (NTT), the level of financial literacy tends to be lower than the national figure. East Nusa Tenggara (NTT) is one of the most challenged provinces in terms of financial literacy, especially in rural areas, older age groups, and people with low education, who tend to show a more limited level of financial understanding.

Rinaldi Maulana, et.al (2022) show that financial inclusion has a negative and significant effect on business continuity. These results are in line with research (Kusuma et al., 2022; Nurohman et al., 2021) which concluded that financial inclusion affects business continuity. The stigma of SMEs related to financial institutions that have a long bureaucracy, high interest rates causes reluctance to access financial services. On the other hand, SMEs are less aware of the benefits of external financing, while internal sources of financing are often insufficient to maintain business continuity.

In Kupang City, East Nusa Tenggara, many people and small and medium enterprises are already using Digital Financial in financial transactions because it is considered easier and more practical, transactions are safe and recording and listing transactions is easier and more accurate. However, many people and small and medium enterprises still accept cash transactions. Cash due to lack of understanding about Fintech, network problems that result in the use of Digital Payment being delayed so that they have to make transactions using cash.

Financial behaviour refers to the way individuals manage their finances, make financial decisions, and cope with financial difficulties. Financial resilience is very important for individuals and businesses to survive financial difficulties. The problem that occurs is that SMEs have not been able to set aside funds as financial resilience in the form of savings and emergency preparedness, set aside money for unexpected expenses to overcome financial shocks and reduce dependence on debt.

This research may shed light on new pathways that have not been explored in previous studies. The Relationship between *Digital Financial Capability* and *Sustainability* Studies linking *digital financial capability* with SME sustainability are minimal. are still minimal. May further examine how the adoption of digital financial technology and and the improvement of digital

financial capability can improve the sustainability of SMEs. Which is also supported by research objects that are limited to internet networks to access digital payment kites. Intervening Financial Personal being the novelty of this research can come from testing the role of *financial personal* as an intervening variable between *financial literacy*, *financial inclusion*, and *digital financial capability* with *sustainability SMEs*.

## METHOD

### Financial literacy

There are many definitions of financial literacy, one of the clearest and most comprehensive is provided by the Organisation for Economic Co-operation and Development (OECD): "Financial

Literacy is the combination of awareness, knowledge, skills, attitudes and behaviours required to make sound financial decisions and ultimately achieve individual financial well-being" (Atkinson & Messy, 2012, p.13). Financial Literacy is based on three fundamental factors, namely financial knowledge, financial behaviour and attitude towards money. A financially literate person should have basic knowledge of key financial issues and the ability to apply certain skills in financial situations. Therefore, they should be able to know about concepts such as simple interest and compound interest, risk and return on invested funds, and the impact of inflation on finances.

### Financial inclusion

Countries that are members of the G20 through the G20 Financial Inclusion Experts Group define: Financial inclusion means that individuals and businesses have access to financial products and services that are useful and affordable and meet their needs for transactions, payments, savings, credit, and insurance delivered in a responsible and sustainable manner (G20 Indonesia, 2020). Financial inclusion is the availability of access to various financial institutions, products and services in accordance with the needs and abilities of the community in order to improve community welfare. In simple terms, financial inclusion refers to the condition where every member of society has access to various formal financial services (SNKLI, 2022).

### Digital financial capability

Financial capability is a combination of awareness, knowledge, ability, attitude, and behaviour needed to make the best financial decisions that will make a person capable in financial management (OECD, 2011; Gosal et al., 2022). Vitt (2000) suggests that Financial Capability is the ability to understand, analyse, manage, and communicate about personal economic conditions that will affect financial well-being. Financial capability shows a person's financial ability to make decisions in the use of finances to be managed effectively (Gabriel & Linawati, 2020; Basana & Tarigan 2021; Nanik Linawati, 2022).

Scientifically, digital financial capability can be explained as: "*An individual's ability to access, understand and use financial information through digital channels to make informed and responsible financial decisions.*" (Xiao &

O'Neill, 2016; OECD, 2022). Digital Financial Capability includes the knowledge, skills, attitudes and behaviours needed to access digital financial services (mobile banking, e-wallets, fintech), assess the risks and benefits of digital financial products, protect personal data and avoid digital fraud, use digital applications and tools for financial planning.

### Personal finance

Personal finance can be defined as an *individual's ability to organise, control and assess personal financial decisions based on their values, life goals and personal responsibility for their financial condition* (Shim et al., 2009; Serido et al., 2010; Perry & Morris, 2005). This is not just a matter of knowledge, but concerns the extent to which a person feels responsible for their own finances, has awareness and self-reflection of their financial behaviour, has *self-efficacy* in dealing with financial situations.

### Sustainability SMEs

The concept of sustainability in Small and Medium Enterprises (SMEs) scientifically refers to the ability of SMEs to maintain their existence and business growth in the long term by taking into account economic, social, and environmental dimensions. *The ability of SMEs to survive and develop consistently by balancing economic goals (profit), social responsibility (people), and environmental sustainability* (Elkington, 1997; Schaltegger & Wagner, 2011).

The population in this study were all food and beverage SMEs in Kupang City. With the following population characteristics: SMEs that have been operating for 5 years or more, have a business licence, have access or use of financial technology, classified in the type of food or beverage business. The total population is 247 food and beverage SMEs in Kupang City. The number of samples used in this research is 154 food and beverage SMEs in Kupang City. The data processing method in this study is the Structural Equation Modeling - Partial Least Square (SEM-PLS) modelling equation.

## RESULTS AND DISCUSSION

1. Measurement Model (Outer Model)
  - a. Validity Test

Average Variance Extracted (AVE) is used to determine whether each indicator represents the construct or latent variable being measured. indicator represents well the construct or latent variable being measured. value A high AVE value ( $> 0.5$ ) indicates that the construct can explain more than half of the variance of its indicators so that it has adequate convergent validity. has sufficient convergent validity. Validity testing based on AVE can be seen in table 1 below:

Table 1  
 Validity testing based on AVE

	Average Variance Extracted (AVE)	Valid/invalid
<b>digital financial capability</b>	<b>0,704</b>	<b>valid</b>
<b>financial inclusion</b>	<b>0,677</b>	<b>valid</b>
<b>financial literacy</b>	<b>0,602</b>	<b>valid</b>
<b>personal finance</b>	<b>0,718</b>	<b>valid</b>
<b>sustainability SMEs</b>	<b>0,830</b>	<b>valid</b>

Source: SEMPLS data, 2025

Based on the Average Variance Extracted (AVE) validation test of the variables studied, it shows that both the independent and dependent variables are the same. variables studied show that both the independent variable and the dependent variable have an AVE value > 0.5 so that they meet the validity requirements. have an AVE value > 0.5 so that they meet the validity requirements.

#### b. Reliability Test

Reliability testing can be seen from the calculation results at Composite Reliability and Cronbach's Alpha. Composite Reliability for each construct is seen in the table and shows that the composite reliability value for all constructs has a value of > 0.70 so that there are no internal consistency problems in the model tested. Furthermore, reliability testing based on the Composite Reliability value can be seen in table 2 below:

Table 2

Reliability testing based on Composite Reliability and Cronbach's Alpha values

	Cronbach's Alpha	rho_A	Composite Reliability	Reliable / not reliable
<b>digital financial capability</b>	<b>0,860</b>	<b>0,872</b>	<b>0,905</b>	<b>Reliable</b>
<b>financial inclusion</b>	<b>0,881</b>	<b>0,882</b>	<b>0,913</b>	<b>Reliable</b>
<b>financial literacy</b>	<b>0,917</b>	<b>0,922</b>	<b>0,931</b>	<b>Reliable</b>
<b>personal finance</b>	<b>0,868</b>	<b>0,871</b>	<b>0,910</b>	<b>Reliable</b>
<b>sustainability SMEs</b>	<b>0,932</b>	<b>0,932</b>	<b>0,951</b>	<b>Reliable</b>

Source: Data processed Smart PLS 3.2025

Based on table 2 shows that the Composite Reliability value is above 0.7, thus all variables studied meet the reliability requirements

Reliable testing can also be seen from the Cronbach's Alpha value. Cronbach's Alpha is a coefficient used to assess the internal consistency or reliability of a set of items or scales in a measurement instrument, such as a questionnaire or psychological test. It measures how well the items in a test or scale correlate with each other as indicators of the same construct. The Basic Principle of Cronbach's Alpha is Internal Consistency i.e. If the items in a scale highly correlated, then the instrument has good internal consistency, which means that all items in the scale measure the same concept or the same construct. The value range of Cronbach's Alpha

ranges from 0 to 1. The closer to 1, the higher the internal consistency. In general, Alpha values above 0.7 are considered acceptable, although higher values (e.g. above 0.8 or 0.9) indicate better reliability. Reliability testing using Cronbach's Alpha can be seen in table 2 above shows that all research variables have a Cronbach's Alpha value above 0.7, which means that this instrument is reliable for measuring each variable studied.

## 2. Structural Model (Inner Model)

Furthermore, after evaluating the construct or variable measurement model, namely by evaluating the structural model (Inner Model) by analysing the R-Square ( $R^2$ ). The R-Square value is used to see the level of variation in changes in exogenous variables on endogenous variables. The results of the R-Square calculation can be seen in table 3:

Table 3  
R Square

	R Square	Adjusted R Square
financial personal	0,758	0,753
sustainability SMEs	0,780	0,774

The R-Square value for the SME Sustainability variable (Y) is 0.78, which means that 78% of the variation in the SME sustainability variable (Y) can be explained by the independent variables in the model. This indicates that the model has a very strong predictive ability for the variable Y. The R-Square value for the Financial Personal (Z) variable is 0.758, which means that 75.8% of the variation in the Financial Personal (Z) variable can be explained by the independent variables. This indicates that the model is good enough to explain variations in Financial Personal (Z)

## 3. Hypothesis Testing (bootstrapping)

In Partial Least Squares Structural Equation Modeling (PLS-SEM) analysis, bootstrapping test results are used to test the significance of path coefficients or relationships between latent variables in the model. The bootstrapping test in PLS-SEM is very useful for ensuring the validity

and reliability of the estimated path coefficients, especially when the data is not normally distributed. Bootstrapping results provide guidance on whether the hypothesised relationships in the model are acceptable or not, based on the calculated t-statistic and p-value. To find out whether the hypothesis is accepted or rejected, it can be done by paying attention to the t-statistic and p-value. If the t-statistic  $> 1.96$  and p-value  $< 0.05$  then the hypothesis is accepted, and if the t-statistic  $< 1.96$  and p-value  $> 0.05$  then the hypothesis is rejected.

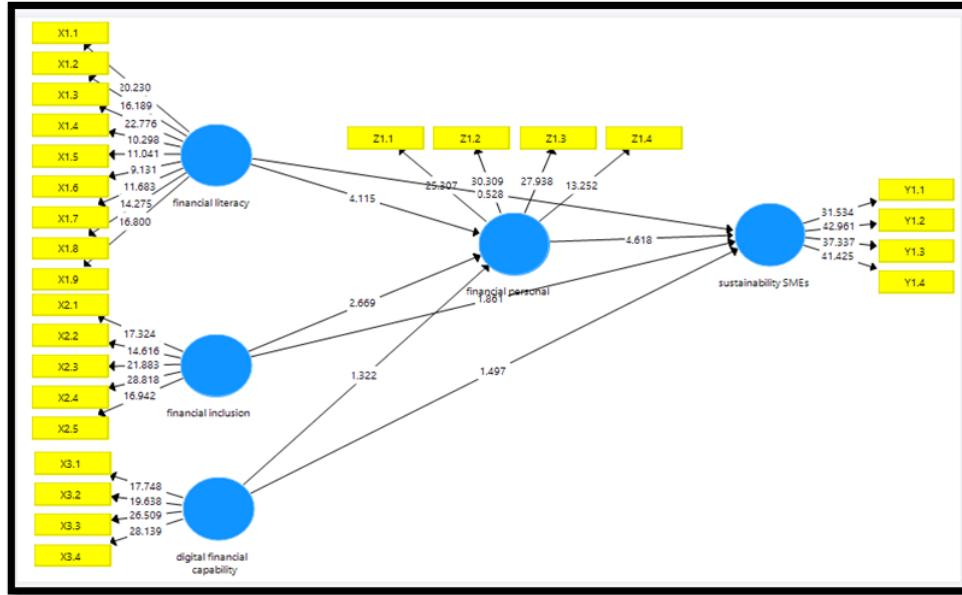


Figure 1 Bootstrapping

Source: Data processed Smart PLS 3.2025

The following is the result of the Bootstrapping test can be seen in table 4 below:

Table 4  
 Significance Test Results of Direct and Indirect Effects (Bootstrapping)

	Original Sample (O)	Sample Average (M)	Standard Deviation (STDEV)	T Statistic (O/STD EV)	P Values	Significant/not significant
<b>Direct relationship:</b>						
digital financial capability $\rightarrow$ personal finance	0,153	0,142	0,116	1,322	<b>0,187</b>	Not significant
digital financial capability $\rightarrow$ sustainability SMEs	0,183	0,168	0,122	1,497	<b>0,135</b>	Not significant
financial inclusion $\rightarrow$ financial personal	0,278	0,271	0,104	2,669	<b>0,008</b>	Significant
financial inclusion $\rightarrow$ sustainability SMEs	0,284	0,271	0,152	1,861	<b>0,063</b>	Not significant
financial literacy $\rightarrow$ financial personal	0,472	0,487	0,115	4,115	<b>0,000</b>	Significant
financial literacy $\rightarrow$ sustainability SMEs	-0,090	-0,043	0,171	0,528	<b>0,597</b>	Not significant
personal finance $\rightarrow$ sustainability SMEs	0,552	0,532	0,120	4,618	<b>0,000</b>	Significant
<b>Indirect relationship:</b>						
digital financial capability $\rightarrow$ financial personal $\rightarrow$ sustainability SMEs	0,085	0,074	0,064	1,314	<b>0,189</b>	Not significant
financial inclusion $\rightarrow$ financial personal $\rightarrow$ sustainability SMEs	0,154	0,145	0,067	2,278	<b>0,023</b>	Significant

Source: Data processed Smart PLS 3.2025

Based on table 4, it can be concluded that the results of hypothesis testing with Bootstrapping are as follows:

1. Financial Literacy (X1) affects financial personal (Z)

Based on the results of testing the Financial Literacy variable on personal finance has a t-statistic value of 4.115 and a p-value of 0.000, so H1 is accepted because the t-statistic value is greater than 1.96 the p-value is smaller than 0.05. it can be concluded that Financial Literacy has a positive and significant effect on personal finance. Practical implications for the development of food and beverage SMEs in Kupang City with the results of research stating that *Financial Literacy* affects personal *financial financial personal* reinforced by the theory of *microfinance* as proposed by Beatriz Armendariz and Jonathan Morduch in *The economic microfinance* is as follows:

- a. Improved managerial skills for food and beverage SMEs in Kupang City. SMEs that have a good understanding of financial literacy will be able to manage their personal finances and business finances. According to Beatriz Armendariz and Jonathan Morduch, *microfinance* principles such as *group lending* and social monitoring, so that SMEs can separate personal finances and business finances with the aim of reducing the risk of using business funds for personal purposes. In addition, SMEs are better able to budget, manage cash flow and make appropriate and sustainable investment decisions.
- b. Better access to finance: with high financial literacy, food and beverage SMEs in Kupang will be better able to access available loans, especially microloans from banks. Food and beverage SMEs in Kupang should also be able to utilise digital financial services (mobike banking, e-wallet, Qris, OVO, Dompet digital, Brimo and other bank products).

2. Financial Inclusion (X2) has an effect on Financial Personal (Z)

Based on the results of testing the Financial Inclusion variable on personal finance, it has a t-statistic value of 2.669 and a p-value of 0.008, so H2 is accepted because the t-statistic value is greater than 1.96, the p-value is smaller than 0.05. So it can be concluded that Financial Inclusion has a positive and significant effect on personal finance.

Based on the results of the study which states that *Financial Inclusion* affects *personal finance* and illustrates the role of financial inclusion in improving the personal financial condition (*financial Personal*) of food and beverage SME owners while increasing the sustainability of their business:

- a. Financial inclusion provides greater opportunities for food and beverage SME owners in Kupang city to access formal financial products such as bank accounts, micro-enterprise loans, savings, or the use of digital banking, thereby reducing SME owners' reliance on unsecured informal sources of finance.
- b. Food and beverage SMEs in Kupang City have opened a business account to separate their personal and business finances. SMEs can use digital *Point of Sales (POS)* to process payments directly into bank accounts so that they can separate business and personal finances.

c. Through financial inclusion, food and beverage SME owners in Kupang city can adopt discipline in budgeting and saving regularly, which has a positive impact on the sustainability of their businesses.

3. Digital Financial Capability (X3) affects Financial Personal (Z)

Based on the results of testing the Digital Financial Capability variable on personal finance, it has a t-statistic value of 1.322 and a p-value of 0.187, then H3 is rejected because the t-statistic value is smaller than 1.96, the p-value is greater than 0.05. it can be concluded that Digital Financial Capability has no significant effect on personal finance

There are a number of reasons why food and beverage SMEs in Kupang City lack the ability to utilise digital finance because although SMEs have access to digital technology and financial services, their lack of digital literacy may hinder their ability to utilise these services optimally. Limited knowledge of digital security risks or how to properly use financial applications can keep SMEs from fully utilising these services. fully utilise these services. In addition, SMEs are also still concerned about their personal data being misused, fraud personal data being misused, fraud and feeling unsecured.

4. Financial Literacy (X1) affects SME Sustainability (Y)

Based on the results of testing the Financial Literacy variable on Sustainability has a t-statistic value of 0.528 and a p-value of 0.597 Then H4 is rejected because the t-statistic value is greater than 1.96 the p-value is smaller than 0.05. it can be concluded that Financial Literacy does not have a significant effect on SME Sustainability

There are several reasons why financial literacy does not affect the sustainability of food and beverage SMEs in Kupang city. Many SMEs, despite having adequate financial literacy, only use it to manage daily cash flow or pay obligations without directing this understanding to sustainability strategies. Thus, it appears that SMEs are only maintaining cash stability in the short term, not building long-term sustainability

5. Financial Inclusion (X2) has an effect on SME Sustainability (Y)

Based on the results of testing the Financia Inclusion variable on SME Sustainability has a t-statistic value of 1.861 and a p-value of 0.063, so H5 is rejected because the t-statistic value is smaller than 1.96 the p-value is greater than 0.05. it can be concluded that Financial Inclusion does not have a significant effect on Sustainability

Financial inclusion does not affect the sustainability of food and beverage SMEs in Kupang city because many SMEs have access to financial services but do not have sufficient understanding of how to use these financial products effectively. This may result in sub-optimal utilisation of the available services, thus not contributing to business sustainability. External factors and the business environment are also decisive such as market conditions, competition, financial technology and government policies. Financial inclusion may not be enough to overcome these challenges.

6. Digital financial Capability (X3) affects SME Sustainability (Y)

Based on the results of testing the Digital Financial Capability variable on SME Sustainability has a t-statistic value of 1.497 and a p-value of 0.135, then H6. rejected because the t-statistic value is smaller than 1.96 the p-value is greater than ,05. it can be concluded that Digital financial capability does not have a significant effect on Sustainability

High digital financial capability does not necessarily mean that food and beverage SMEs in Kupang city are able to utilise digital services effectively to improve business sustainability. In many cases, other digital literacy limitations or a lack of supporting infrastructure (stable internet access, technological devices) as well as the ability to use them are the main obstacles. More importantly, sustainability is influenced by elements such as innovation, operational efficiency and market access.

7. Financial Personal (Z) affects SME Sustainability (Y)

Based on the results of testing the Financial Personal variable on SME Sustainability has a t-statistic value of 4.618 and a p-value of 0.000, so H7 is accepted because the t-statistic value is greater than 1.96 the p-value is smaller than 0.05. it can be concluded that Financial Personal has a positive and significant effect on Sustainability.

The relationship between personal finance and the sustainability of food and beverage SMEs in Kupang city is the understanding, skills, and discipline in managing personal funds, which are often the backbone of business capital. Good financial literacy helps to separate personal and business funds to prevent leakage of business funds to personal consumptive purposes, maximising the efficient use of limited funds, making them more productive in supporting the businesses of food and beverage SMEs in Kupang City.

8. Financial Literacy (X1) has a significant effect on SME Sustainability (Y) with Personal Finance (Z) as an intervening variable.

The mediation coefficient value of Financial Personal (Z) to Financial Literacy (X1) on SME Sustainability (Y) is 0.260 which means the coefficient value is positive which indicates that Financial Literacy has a positive relationship with sustainability through Financial Personal. This means that if there is an increase in financial literacy will contribute to an increase in sustainability with the financial personal as an intermediary.

The t-statistic value for this interaction is 2.901 for significance at the 0.05 level, the required t-statistic value is  $>1.96$ . Since the value of  $2.901 > 1.96$ , this interaction is significant at the 0.05 level. Thus, it means that the mediating effect of personal finance is statistically significant. The p-value is 0.004, which is less than 0.05, this means that the mediating effect of Financial Personal from Financial Literacy on SME Sustainability is significant at the 0.05 level.

Then H8 is accepted because the t-statistic value is greater than 1.96, the p-value is smaller than 0.05. So it can be concluded that Financial Personal has a significant influence in mediating the relationship between Financial Literacy and Sustainability. SMEs understand the basic concepts of personal

financial management, but such management does not automatically transition into business sustainability. That is, a good financial understanding may be more useful in managing individual finances, but it does not guarantee financial and operational sustainability at the enterprise scale.

9. Financial Inclusion (X2) has a significant effect on SME Sustainability (Y) with Personal Finance (Z) as an intervening variable.

Path Coefficient (Original Sample/O) = 0.154, this shows the magnitude of the indirect effect of financial inclusion on the sustainability of MSMEs through the mediating variable of *personal finance*. The value of 0.154 means that the effect is positive and quite strong. The t-statistic value for this interaction is 2.278 for significance at the level, the required t-statistic value is  $>1.96$ . Since the value of  $2.278 > 1.96$ , this interaction is significant at the 0.05 level. Thus, it means that the mediating effect of personal finance is statistically significant. The p-value is 0.023, which is smaller than 0.05, this means that the mediating effect of Financial Personal from Financial Inclusion on Sustainability is significant at the 0.05 level. Hence, H9 is accepted because the t-statistic value is greater than 1.96 and the p-value is smaller than 0.05. Therefore, it can be concluded that Financial Personal has a significant influence in mediating the relationship between Financial Inclusion and SME Sustainability.

Financial personal as an intervening variable does not play a significant role in strengthening the effect of financial inclusion on sustainability. Even though SME owners have access to financial products and increase their knowledge of personal management, this factor does not seem to effectively transform their into positive changes in business sustainability. This indicates that business sustainability is more influenced by other factors, such as the ability to manage business operations. such as the ability to manage business operations, marketing strategies, and product innovation.

10. Digital financial capability (X3) has a significant effect on SME sustainability (Y) with personal finance (Z) as an intervening variable.

The mediation coefficient value of financial Personal (Z) to Digital Financial capability (X3) on SME Sustainability (Y) is 0.085 which means that the coefficient value is positive but weak, which indicates that Digital Financial capability has a positive relationship with sustainability through Financial Personal This means that if there is an increase in digital financial will have a slight effect on increasing sustainability in the presence of personal financial as an intermediary.

The t-statistic value for this interaction is 1.314 for significance at level, the required t-statistic value is  $>1.96$ . Since the value of  $1.314 < 1.96$ , this interaction is not significant at the 0.05 level. Thus, it means that the mediating effect of financial behaviour is not statistically significant. The p-value is 0.189, which is greater than 0.05, This means that the Financial

---

Personal of Digital financial capability on Sustainability is not significant at the 0.05 level.

Then H10 is rejected because the t-statistic value is smaller than 1.96 the p-value is greater than 0.05. so it can be concluded that Financial Personal does not have a significant influence in mediating the relationship between Digital Financial capability and Sustainability.

While food and beverage SMEs in Kupang City have almost mastered basic skills in using digital financial technology, this research shows that they have not implemented or are not sufficiently utilising digital technology for business financial management that focuses on operational efficiency, cost management, and strategic decision-making that supports long-term sustain sophisticated or data-driven business practices that can support their competitiveness and business continuity.

## **CONCLUSION**

Advice for SMEs in Kupang City

1. The development of Small and Medium Enterprises (SMEs) through financial literacy is an important step to ensure business sustainability and growth. Here are some suggestions for improving financial literacy among SMEs: Education and training by organising workshops or seminars that cover financial basics, such as bookkeeping, budgeting, and cash management. Create or provide access to online courses that cover financial topics, such as basic accounting, financial statement analysis, and financial planning. Collaborate with financial institutions or finance professionals to provide guidance and mentoring for SMEs
2. The development of Small and Medium Enterprises (SMEs) in terms of financial inclusion is an important step to ensure wider access to financial services necessary for business growth and sustainability. To improve financial inclusion, the Bank is implementing several measures such as Improving Access to Financial Services such as Collaboration with banks and financial institutions to provide products and services tailored to the needs of SMEs, Provide bank agents or microfinance institutions in remote areas to facilitate access for SMEs in the region, Utilise fintech platforms to provide more accessible and faster financial services, Encourage the use of digital payments through mobile banking, e-wallets, or QR codes to facilitate transactions and improve efficiency.
3. Development of Small and Medium Enterprises (SMEs) in terms of financial behaviour Encourage SMEs to get into the habit of saving some of their profits for emergencies or future investments. Educate SMEs on the importance of discipline in debt repayment to avoid bigger financial problems. Encourage SMEs to consider business insurance as protection against unforeseen risks.

For future researchers

1. For future researchers, it is expected to add mediating variables Consider adding mediating variables such as financial innovation or risk management

that can explain the relationship between financial literacy, financial inclusion, and financial capability.

2. Relevance of Financial Personal and Financial Behaviour as Intervening Variables

Since most of the relationships with Sustainability through intervening variables are not significant, further research is recommended to add other variables such as Innovation Capability, Market Orientation, or Operational Efficiency, which may be more influential in driving SME business sustainability.

## REFERENCES

Akande, J. O. et al. 2023. "Financial Literacy and Inclusion for Rural Agrarian Change and Sustainable Livelihood in the Eastern Cape, South Africa." *Heliyon* 9(6).

Ahmed, S., & Ahmed, I. (2021). "Financial Inclusion and Sustainability Nexus: The Moderating Role of Financial Resilience." *Journal of Sustainable Finance & Investment*, 7(2), 123-140.

Ajibike, T., & Richard, M. (2020), Financial Behaviour and SMEs' Sustainability: The Role of ability. The use of digital applications does not always translate into more External Financing, *DOI: 10.12345/ijbsbe.v10i3.100*

V ---. 2020c. ADBI Working Paper Series millennial mobile payment users: A look into their personal finances and financial behaviour Asian

Development Bank Institute. <https://www.adb.org/publications/millennial-mobile-> . Businessman, Journal, and ; February-May. 5 Effect of Financial Capabilities, Networking on the performance of MSMEs in Sukabumi City through Intellectual Capital. Capital. <http://bisnisman.nusaputra.ac.id>.

C Korompis, H D et al. 2023. "the influence of financial literacy and financial attitude on financial resilience of micro, small, medium enterprises (msmes) in manado." 11(3): 371-80.

Candraningsih, Komang Eni, Anantawikrama Tungga Atmadja, Nyoman Desak, and Werastuti Sri.2023. 14 Scientific Journal of Accounting Students) Ganesha University of Education testing the financial performance model on umkm in Buleleng district.

Carina, Tiara et al. 2023. "Risk Perception as Mediator in the Effect of Financial Literacy to Entrepreneurial Orientation among MSMEs." *Matrik: Journal of Management, Business Strategy and Entrepreneurship*: 34.

Chen, Fuzhong, Xin Du, and Wenting Wang. 2023. "Can FinTech Applied to Payments Improve Consumer Financial Satisfaction? Evidence from the USA." *Mathematics* 11(2). and *Islamic Finance, Journal of Accounting, The Effect of Financial Capability, Convenience And Security, and Islamiah Kamil*. 2020. "Islamiah Kamil | 185 Towards

Behavioural System Use of Financial Technology." <http://ejournal.radenintan.ac.id/index.php/al-mal/index>.

Demyen, Suzana. 2022a. "From Fragility to Resilience-How Prepared Was the Romanian Business Environment to Face the COVID-19 Crisis?" *Journal of Risk and Financial Management* 15(2).

---. 2022b. "From Fragility to Resilience-How Prepared Was the Romanian Business Environment to Face the COVID-19 Crisis?" *Journal of Risk and Financial Management* 15(2).

Dewi, Sinta, and Asiah Muchtar. 2023. "Financial Literacy, Educational Background, and Materialistic Among Gen Z in Indonesia." *Journal of Economics and Business Education (JPEB)* 11(01): 89-103.

Dias, Álvaro Lopes et al. 2022. "Revisiting Small-and Medium-Sized Enterprises' Innovation and Resilience during COVID-19: The Tourism Sector." *Journal of Open Innovation: Technology, Markets, and Complexity* 8(1).

Duryadi, 2021, Scientific research methods, Empirical research methods Path Analysis models and analysis using Smart PLS

Elahi Khandakar, 2004, Microfinance and thir wordDevelopment: A Critical analysis journal of political and Military sociology, vol 32. no.1

Efan, K., S.R. Basana, and R.S.D. Ottemoesoe. 2021. "The Effect of Financial Inclusion on Micro, Small, and Medium Enterprise Performance Using Fintech as a Moderating Variable." In *Contemporary Research on Business and Management*, CRC Press, 153-56. 56.Exploring the Role of Behavioural Theories in Financial Inclusion. <https://ssrn.com/abstract=3634040>.

Farida, Mamik Nur, Yoyok Soesatyo, and Tony Seno Aji. 2021. "Influence of Financial Literacy and Use of Financial Technology on Financial Satisfaction through Financial Behaviour." *International Journal of Education and Literacy Studies* 9(1): 86.

Fitri Arianti, Baiq. "The effect of income and financial behaviour on financial literacy through investment decisions as an intervening variable the effect of income and financial behaviour on financial literacy. financial behaviour on financial literacy with investment decisions as intervening." 10(1): 13–36. <https://doi.org/10.33369/j.akuntansi.9.3.13-36>.

Forson, Joseph Ato, Samuel Gameli Gadzo, Emmanuel Atta Anaman, and Abass Adams. 2022. "Online Sales Adoption and Financial Resilience in Sub-Saharan Africa: The Moderating Role of Ownership and Enterprise Size during the Covid-19 Crisis." *Future Business Journal* 8(1).

Franco, Mário, Heiko Haase, and Dalne António. 2021. "Influence of Failure Factors on Entrepreneurial Resilience in Angolan Micro, Small and Medium-Sized Enterprises." *International Journal of Organizational Analysis* 29(1): 240-59.

Frimpong, Stephanie Efua, Gloria Agyapong, and Daniel Agyapong. 2022. "Financial Literacy, Access to Digital Finance and Performance of SMEs: Evidence From Central Region of Ghana." *Cogent Economics*

and Finance 10(1).Global Challenges of Financial Inclusion.  
Glasgow,2007, Personal Finance & Investing, A L L - I N - O N E FOR UMmIES  
By Melanie Bien,

Golden, Wil, and Leslie Cordie. 2022. "Digital Financial Literacy." Adult Literacy Education: The International Journal of Literacy, Language, and Numeracy 4(3): 20-26.

Guandalini, Ilaria. 2022. "Sustainability through Digital Transformation: A Systematic Literature Review for Research Guidance." Journal of Business Research 148: 456-71.

Guo, Baorong, and Jin Huang. 2023. "Financial Well-Being and Financial Capability among Low- Income Entrepreneurs." Journal of Risk and Financial Management 16(3).

Gusti Ayu Agung Diah, Acintya I, and Rahyuda Henny. "the influence of financial literacy, self- control, spiritual quotient, and financial behaviour towards financial wellbeing: A case study of civil servants in regional office x bkn denpasar." <https://doi.org/10.18551/econeurasia.2021- 08>.

Hamid, Fazelina Sahul, Yiling Jia Loke, and Phaik Nie Chin. 2023. "Determinants of Financial Resilience: Insights from an Emerging Economy." Journal of Social and Economic Development.

Harahap, Ramadhan. 2023. "Financial Literacy and Digital Financial Behaviour of SMEs in Indonesia."

Hasan, Morshadul, Thi Le, and Ariful Hoque. 2021. "How Does Financial Literacy Impact on Inclusive Finance?" Financial Innovation 7(1).

Isfenti sadalia.et.al, 2016, Financial Behaviour: Theory and implementation,: Pustaka Bangsa Press ISBN 978-602-1183-32-8

Irfan, Irfan et al. 2023. "The Impact of Financial Literacy and Financial Inclusion towards the Saving Behaviour of the Students." MIX: SCIENTIFIC JOURNAL OF MANAGEMENT 13(2): 439.

Irimia-Díéguez, A., F. Velicia-Martín, and M. Aguayo-Camacho. 2023. "*Predicting Fintech Innovation Adoption: The Mediator Role of Social Norms and Attitudes.*" Financial Innovation 9(1).

Jing Jian Xiao, 2008, *Handbook of Consumer Finance Research*, 69 Springer.

Johan, Irni, Karen Rowlingson, and Lindsey Appleyard. 2021. "*The Effect of Personal Finance Education on the Financial Knowledge, Attitudes and Behaviour of University Students in Indonesia.*" Journal of Family and Economic Issues 42(2): 351-67.

Khalili, N R, (2011), Practical Sustainability: From Grounded Theory to Emerging Strategies

Kelmara Mendes Vieira, et.al, 2024, *Digital Financial Capability Scale*, Journal of Risk and Financial Management

Kerthayasa, I Wayan, and Ni Putu Ayu Darmayanti. 2023. "The influence of financial literacy and financial technology on financial inclusion in

pengotan village." *E-Journal of Management* 12(2): 137

Kaiser, T., & Menkhoff, L. (2017). *Does Financial Education Impact Financial Literacy and Financial Behaviour, and if so, When?*. *World Bank Economic Review*, 31(3), 611-630.

Resilience, Theory, Financial Organising, and Financial Systems. Mercatus working paper. <https://www.mercatus.org/publications/governing-financial>.

Khan, Khurram Ajaz, Gentjan Çera, and Sandra Raquel Pinto Alves. 2022. "Financial capability as a function of financial literacy, financial advice, and financial satisfaction." *E a M: Ekonomie a Management* 25(1): 143-60.

Khawar, Sumaira, and Aamir Sarwar. 2021a. "Financial Literacy and Financial Behaviour with the Mediating Effect of Family Financial Socialisation in the Financial Institutions of Lahore, Pakistan." *Future Business Journal* 7(1).

---. 2021b. "Financial Literacy and Financial Behaviour with the Mediating Effect of Family Financial Socialisation in the Financial Institutions of Lahore, Pakistan." *Future Business Journal* 7(1).

Kijkasiwat, Ployailin. 2021. "The Influence of Behavioural Factors on SMEs' Owners Intention to Adopt Private Finance." *Journal of Behavioural and Experimental Finance* 30.

Collaborative Science, Journal et al. "The Effect of Financial Inclusion and Financial Literacy on the Sustainability of Culinary Business in West Palu District."

Koskelainen, Tiina, Panu Kalmi, Eusebio Scornavacca, and Tero Vartiainen. 2023. "Financial Literacy in the Digital Age-A Research Agenda." *Journal of Consumer Affairs* 57(1): 507- 28.

Kumar, Parul, Md Aminul Islam, Rekha Pillai, and Taimur Sharif. 2023. "Analysing the Behavioural, Psychological, and Demographic Determinants of Financial Decision Making of Household Investors." *Heliyon* 9(2).

Kumar, Parul, Rekha Pillai, Neha Kumar, and Mosab I. Tabash. 2023. "The Interplay of Skills, Digital Financial Literacy, Capability, and Autonomy in Financial Decision Making and Well- Being." *Borsa Istanbul Review* 23(1): 169-83.

Kumar, Rajesh. 2017. "Perspectives on Strategic Finance." In *Strategic Financial Management Casebook*, Elsevier, 1-29.

Kwesley, Erica E. P., Njo Anastasia, and Sautma Ronni Basana. 2022. "the effect of financial literacy on financial management behaviour in the community of kupang." In Global Conference on Business and Management Proceedings, Goodwood Conferences, 111-22. <https://proceedings.goodwoodconferences.com/index.php/gcbm/article/view/15>.

La Torre M.Vento G A,2006, *Microfinance*, Palgrave Macmillan Studies in Udayana University

---

*Banking and Financial Institutions Series Standing Order ISBN 1-4039-4872-0*

Li, Bin, Sherman D. Hanna, and Kyoung Tae Kim. 2020. "Who Uses Mobile Payments: Fintech Potential in Users and Non-Users." *Journal of Financial Counselling and Planning* 31(1): 83- 100.

Lie, Stephanie, Dewi Astuti, and Mariana Ing Malelak. 2023. "the effect of financial literacy and demographics on the saving behaviour of the millennial generation." *International Journal of Financial and Investment Studies (IJFIS)* 3(2): 110-18.

Linawati, Nanik, and Inlian Wijaya. 2022. "the moderator effect of financial apps on the relationship between financial education and financial capability." *International Journal of Financial and Investment Studies (IJFIS)* 3(1): 1-8.

Financial Literacy, Importance et al. *The importance of financial literacy, locus of control and financial inclusion on financial behaviour in the msme sector. financial inclusion on financial behaviour in the msme sector.*

Long, Trinh Quang, Peter J. Morgan, and Naoyuki Yoshino. 2023. "Financial Literacy, Behavioural Traits, and EPayment Adoption and Usage in Japan." *Financial Innovation* 9(1).

Luo, Yu, Yuchao Peng, and Lianyun Zeng. 2021. "Digital Financial Capability and Entrepreneurial Performance." *International Review of Economics and Finance* 76: 55- 74.

Lyons, Angela C; et al. 2020. *Building Financial Resilience through Financial and Digital Literacy in South Asia and Sub-Saharan Africa*  
<https://www.adb.org/publications/building-financial-resilience-through-financial-digital->

Martins, A., Castelo-Branco, M., Melo, P. N., & Machado, C. (2022). *Sustainability in Small and Medium-Sized Enterprises: A Systematic Literature Review and Future Research Agenda* *Sustainability*, 14(11), 6493. [DOI:10.3390/su14116493](https://doi.org/10.3390/su14116493) ...

Maftuhah, atul, Triani Ratnawuri, and Grisvia Agustin. 2022. *7 International Journal of Innovative Science and Research Technology Islamic Financial Literacy and Inclusion on Personal Finance Behaviour with Socio-Demography as a Moderating Variable. Personal Finance Behaviour with Socio-Demography as a Moderating Variable.*  
[www.ijisrt.com92](http://www.ijisrt.com92).

Mangifera, Liana, Farid Wajdi, Farah Amalia, and Aulia Uswatun Khasah. 2022a. "The Role of Digital Innovation in SMEs: A Financial Performance Perspective." *Journal of Management* Bung Hatta University 17(02).

---. 2022b. "The Role of Digital Innovation in SMEs: A Financial Performance Perspective." *Bung Hatta University Journal of Management* 17(02).

Meyer, J. W., & Rowan, B. (1977). Institutionalised organisations: Formal

structure as myth and ceremony. *American Journal of Sociology*, 83(2), 340-363. <https://doi.org/10.1086/226550>

Martono, Samuel, and Rania Febriyanti. 2023. "The effect of financial inclusion, financial literacy and financial management on the performance of umkm in salatiga city." *Journal of economics education and entrepreneurship* 11(2): 153-68. <https://journal.unesa.ac.id/index.php/jepk/article/view/23028>.

Maulana, Rinaldi, Rochiyati Murniningsih, and Wahyu Anggit Prasetya. 2022. 440 Scientific Journal Management of the influence of financial literacy, financial inclusion, and fintech business sustainability in smes. <http://ejournal.pelitaindonesia.ac.id/ojs32/index.php/PROCURATIO/index>.

Melki Bobby Veronica, and Acong Dewantoro Marsono. 2023. "Analysis of the Influence of Financial Literacy on Financial Behaviour Using Financial Technology as an Intervening Factor for Mekaar PNM Customers. Factor for Mekaar PNM Customers." *Formosa Journal of Sustainable Research* 2(8): 2133- 46.

Mireku, Kwame, Francis Appiah, and Joseph Akadeagre Agana. 2023. "Is There a Link between Financial Literacy and Financial Behaviour?" *Cogent Economics and Finance* 11(1).Mirza Hedismarlina Yuneline and Maria Firnandya Christian ,2023, "The Role of Digital Finance, Financial Literacy, and Lifestyle on Financial Behaviour", *HOLISTICA* Vol 14, Issue 2, 2023, pp.97-115. DOI:10.2478/hjbpa-2023-0018

Monu Bhargava, 2022, et.al, Moderating Role of Personality in Relationship to Financial Attitude, Financial Behaviour, Financial Knowledge and Financial Capability, *International Journal of Sustainable Development and Planning* Vol. 17, No. 6, October, 2022, pp. 1997-2006 Journal homepage: <http://ieta.org/journals/ijspd>

Morris Altman, 2010, *Behavioural Finance: Investors, Corporations, and Markets*, Edited by H. Kent Baker and John R. Nofsinger Copyright © 2010 John Wiley & Sons, Inc.

Mostafa, Seifelyazal, Salah Eldin Ashraf, and ElSherif Marwa. 2023. "The Impact of Financial Inclusion on Economic Development." *International Journal of Economics and Financial Issues* 13(2): 93-101.

Nafiati, Dewi Amaliah, Endang Sri, Mulyani Faculty of Economics, and State University of Yogyakarta Yogyakata. Resilience of Micro, Small, Medium Enterprises (MSMEs) and Government Policies during the Covid 19 Pandemic. Government Policies During the Covid 19 Pandemic.

Nurchayati et.al, 2023, Building Sustainability of Food and Beverage MSME Businesses Based on Financial Management in Pemalang Regency, EKOBIS ABDIMAS. *Journal of Community Service* Volume 4, Number 2, December, 2023 E - ISSN: 2721-9933

Nurohman, Yulfan Arif, Melia Kusuma, and Devi Narulitasari. 2021. *"Fin-Tech, Financial Inclusion, and Sustainability: A Quantitative Approach of Muslims SMEs."* International Journal of Islamic Business Ethics 6(1): 54.

On Micro Business Actors in Oesapa Village, Study et al. 2021. 2 BIEMA PROCEEDINGS Business Management, Economic, and Accounting National Seminar.

Panos, Georgios A., and John O.S. Wilson. 2020a. *"Financial Literacy and Responsible Finance in the FinTech Era: Capabilities and Challenges."* European Journal of Finance 26(4-5): 297- 301.

---. 2020b. *"Financial Literacy and Responsible Finance in the FinTech Era: Capabilities and Challenges."* European Journal of Finance 26(4-5): 297-301.

Permana, Jihan Zakiyah, and Lutfi Lutfi. 2022. *"Financial Literacy, Financial Attitude, and Household Financial Behaviour."* Maksipreneur Journal: Management, Cooperatives, and Entrepreneurship 12(1): 273.

Prasansha Kumari, 2020, *Theoretical Analysis of microfinance on poverty Aleviation*, Journal of economic info vol. 7 no.3

Pompian, Michael M. *Behavioural Finance and Wealth Management How to Build Optimal Portfolios That Account for Investor Biases.*

Potocki, Tomasz. 2019. *"Financial Capability among Low-Income Households in Rural Parts of Poland."* Argumenta Oeconomica 2(43): 85-114. "Gross Regional Domestic Product of Kota Kupang by Business Field 2018- 2022."

Kupang City Government, Office of Cooperative Small and Medium Enterprises, Data base of culinary SMEs in Kupang City, 2023

Rahadjeng, Erna Retno, Heri Pratikto, Imam Mukhlis, and Nurika Restuningdiah. 2023. *"Analysis of Financial Technology, Financial Literacy, Financial Attitudes, on Mediated Business Performance Financial Inclusion and Self-Efficiency in Small Medium Industry (SMI) in Malang City. (SMI) in Malang City, Indonesia."* International Journal of Professional Business Review 8(8): e03041.

Raharja, Bayu Sindhu, Nia Kurniati Bachtiar, and Muhammad Ridhwan Ab Azis. 2022. *"the behavioural dimension of sme's owner on affecting the financial decisions."* Business: Theory and Practice 23(1): 60-69.

Rahayu, Sri Mangesti et al. 2023. *"Conceptualising of Financial Resilient: Building Money Management Behaviour."* In , 709-21.

Rahman, Mahfuzur et al. 2021. *"The Role of Financial Behaviour, Financial Literacy, and Financial Stress in Explaining the Financial Well-Being of B40 Group in Malaysia."* Future Business Journal 7(1).

Risman, Asep, Anees Janee Ali, Mochamad Soelton, and Indra Siswanti. 2023. *"The Behavioural Finance of MSMEs in the Advancement of Financial*

*Inclusion and Financial Technology (Fintech). (Fintech)." The Indonesian Accounting Review 13(1): 91.*

Rochayatun, Sulis. 2022. "Digitalisation: Reveal the Resilience and Sustainability of SMEs in the Covid-19 Pandemic." Journal of Economics, Finance and Management Studies 05(04). <http://ijefm.co.in/v5i4/6.php>.

Ruscitasari, Z., Nurcahyanti, F. W., & Nasrullah, R. S. (2022). Analysis of Financial Management Practices of Financial Management Practices of MSMEs in Bantul Regency. Journal of Social Sciences, 9(4), 1483-1490.

Sari, Yuliyanti Wulan, Mulyanto Nugroho, and Nekky Rahmiyati. 2023. "The Effect of Financial Knowledge, Financial Behaviour and Digital Financial Capabilities on Financial Inclusion, Financial Concern and Performance in MSMEs in East Java." Uncertain Supply Chain Management 11(4): 1745-58.

Samuel Kirwan, 2021, *Financial Inclusion*, 1 by Agenda Publishing, British Library Cataloguing-in-Publication Data A catalogue record for this book is available from the British Library

Suriani Series, 2022, *Financial Behaviour*, Yayasan Kita Tulis, 2022 x; 160 pp; 16 x 23 cm ISBN: 978-623-342-513-1

Seraj, Abdullah Hamoud Ali, Syed Ali Fazal, and Ali Saleh Alshebami. 2022. "Entrepreneurial Competency, Financial Literacy, and Sustainable Performance-Examining the Mediating Role of Entrepreneurial Resilience among Saudi Entrepreneurs." Sustainability (Switzerland) 14(17).

Siti Rohila, et.al, 2023, *analysis of financial literacy and financial inclusion on Business sustainability through financial behaviour as a mediation variable for beverage smes in Sukabumi City, Journal of Economic, Business and Accounting Volume 7 Number 4, Year 2024. 2024 e-ISSN: 2597-5234*

Siti Murni Mat Khairi, 2024, Usage of Digital Finance Applications and its Impact on Financial Well-Being: A Conceptual Framework, *International Journal of Research and Innovation*, Volume VIII, Issue IX, Pages 3380-3390

Song, Hua, Yudong Yang, and Zheng Tao. 2020. "How Different Types of Financial Service Providers Support Small- and Medium- Enterprises under the Impact of the COVID-19 Pandemic: From the Perspective of Expectancy Theory." *Frontiers of Business Research in China* 14(1).

"REGIONAL STATISTICS OF KUPANG CITY 2021."

Sugiono, 2018, "Business Research Methods. Quantitative, Qualitative, Combination, and R&D Approaches". R&D" Approach, 3rd Edition, Alphabet Publisher Bandung

Smith, J., & Johnson, A. (2020). *"The Impact of Digital Financial Capability on Sustainability: The Moderating Role of Financial Resilience."* Journal of Financial Technology, 15(2), 45- 62.

National Survey of Financial Literacy and Inclusion, 2019, OJK and Central Bureau of Statistics

National Survey on Financial Literacy and Inclusion, 2022, OJK and Central Bureau of Statistics

National Survey on Financial Literacy and Inclusion, 2024, OJK and Central Bureau of Statistics

Tambun, Sihar, and Erna Cahyati. 2023. *"Self-Control Moderation on the Influence of Financial Behaviour and Spiritual Intelligence on Financial Planning."* Saudi Journal of Economics and Finance 7(1): 33-40.

Tambunan, Tulus, Wimboh Santoso, Ida Busneti, and Sukarela Batunanggar. 15 International Journal of Innovation, Creativity and Change. [www.ijicc.net](http://www.ijicc.net) *The Development of MSMEs and the Growth of Peer-to-Peer (P2P) Lending in Indonesia.* [www.ijicc.net](http://www.ijicc.net).

Tari, Wayan et al. 2021. "e-journal of economics and business udayana university the effect of literacy on students' financial behaviour." 10(03): 127-34. <https://ojs.unud.ac.id/index.php/EEB/>.

Timuneno, Antonius Yohanes William, Maria Goreti Malut, Rifdah Riyan Dara, and Grace Rianti Latuheru. 2023. "Analysis of the Contribution of Financial Literacy and Financial Inclusion Towards Financial Performance of the MSME Sector in Kupang." Owner 7(2): 1540- 52.

Trunk, Anna, and Hendrik Birkel. 2022. *"No Resilience Without Partners: A Case Study on German Small and Medium-Sized Enterprises in the Context of COVID-19."* Schmalenbach Journal of Business Research 74(4): 537-74.

Utami, Elok Sri, Mega Rizky Aprilia, and Ihrom Caesar Ananta Putra. 2021. *"Financial literacy of micro, small, and medium enterprises of consumption sector in probolinggo city."* Journal of Management and Entrepreneurship 23(1): 10-17. "Vol.+1,+No.+2+April+2023+30-7." "Vol.3,+No.3+Agustus+2023+Hal+259- 274."

Valentina Hartarska, Robert, 2023, *Handbook of microfinance Financial Inclusion, and development*, Edwar Elgar Publishing

Widiastuti, Ekaningtyas, and Sugeng Wahyudi. International Sustainable Competitiveness Advantage 2020 *the role of financial literacy and financial behaviour towards personalfinance planning in msmes.*

Wijayanti, Nur, and Budi Rustandi Kartawinata. 2023a. "The Effect of Financial Literacy, Financial Confidence, and External Locus of Control on Personal Finance Management. Finance Management." Technomedia Journal 8(1 June): 11-22.

Wisnu Yuwono, et.al, 2023, *Analysis of the Influence of the Role of Financial Literacy on Personal Financial Management, European Journal of Business and Management Research* [www.ejbm.org](http://www.ejbm.org)

---. 2023b. "The Effect of Financial Literacy, Financial Confidence, and External Locus of Control on Personal Finance Management. External to Personal Finance Management." *Technomedia Journal* 8(1 June): 11- 22.

Xia, Yanchun, Zhilin Qiao, and Guanghua Xie. 2022. "Corporate Resilience to the COVID-19 Pandemic: The Role of Digital Finance." *Pacific Basin Finance Journal* 74.

Xiao, Jing Jian, Jin Huang, Kirti Goyal, and Satish Kumar. 2022. "Financial Capability: A Systematic Conceptual Review, Extension and Synthesis." *International Journal of Bank Marketing* 40(7): 1680-1717.

Xiao, Jing Jian, and J J Xiao. *Applying Behaviour Theories to Financial Behaviour*.

Yazdipour, Rassoul, and James A Howard. 2010. *Behavioural Finance: Application and Pedagogy in Business Education and Training*.

Ye, Jianmu, and K. M.M.C.B. Kulathunga. 2019a. "How Does Financial Literacy Promote Sustainability in SMEs? A Developing Country Perspective." *Sustainability* (Switzerland). 11(10).

---. 2019b. "How Does Financial Literacy Promote Sustainability in SMEs? A Developing Country Perspective." *Sustainability* (Switzerland) 11(10).

Yuliana, Melliya, Dewi Nurjannah, and Chalimatuz Sa'diyah. 2023. "The Effect of Financial Literacy, Personality, and Financial Attitude on Financial Behaviour Management in Malang SMEs." *Jamanika (Journal of Business Management and Entrepreneurship)* 3(02): 138-47.

Yuliyawati, Yuliyawati, and Mardiana Mardiana. 2023. "Analysis of financial literacy towards sustainability of umkm with financial inclusion in umkm gianyar." *Proaction Journal* 10(2): 246-62.

Zaimovic, Azra et al. 2023. "Mapping Financial Literacy: A Systematic Literature Review of Determinants and Recent Trends." *Sustainability* (Switzerland) 15(12).

Zaniarti, Sri, Sienly Veronica, and Raden Arvi Arsyntania. 2022. "The Effect of Financial Literacy on the Sustainability of Micro, Small, and Medium Enterprises with Access to Finance as a Mediating Variable. a Mediating Variable." *International Journal of Management Science and Business Administration* 8(7):17–31.  
<https://doi.org/10.18775/ijmsba.1849-5664-5419.2014.87.1002>.