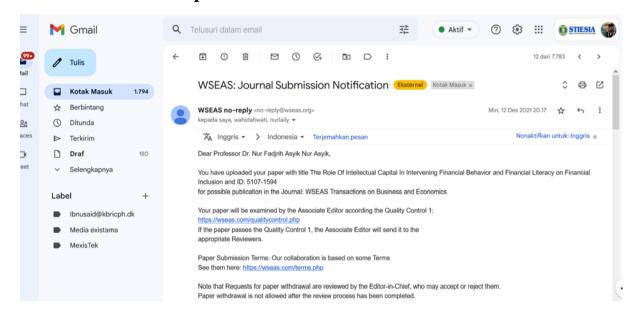
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The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion'', ID: 5107-1594

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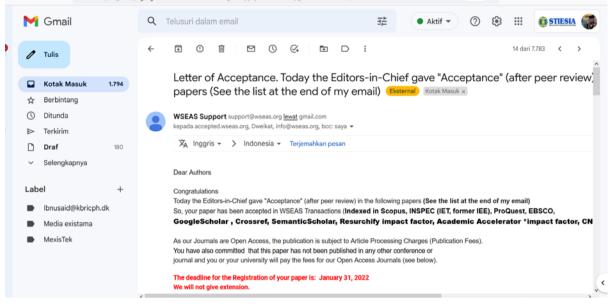
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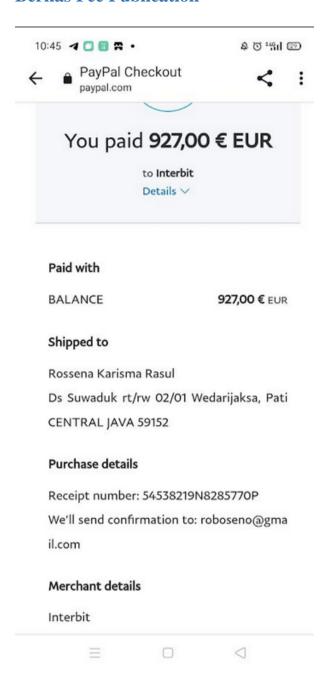
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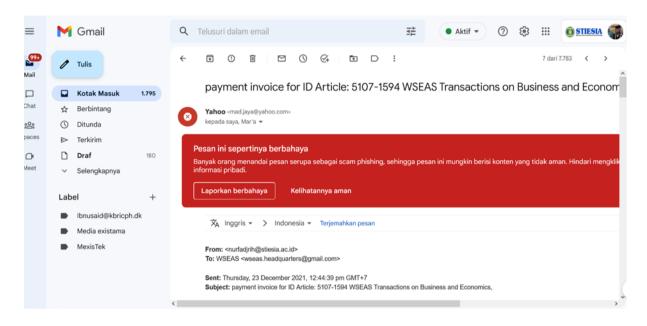
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Factors influence Green Product Consumption Intention in Malaysia: A Structural Approach	

24 January 2021 Lampiran Berkas Revisi

The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

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Abstract: -Education is very important to be able to reduce the percentage rate of the number of unbanked people. This research was conducted by focusing and convincing many people about the importance of financial behavior to reduce financial inclusion in developing countries such as Indonesia. The number of samples in this study were 500 respondents. The analysis method uses the Partial Least Square (PLS) method through the statistical test tool of the structural equation model (SEM) based on variance. This study found that financial behavior and financial literacy have a positive and significant influence on financial inclusion. Intellectual capital also detected capable of intervening a strong relationship between financial behavior and financial literacy on financial inclusion. This discovery contributing is very important for stakeholders who want to improve financial access for all unbanked people

in developing countries, through the concept of financial behavior. The novelty of financial behavior emerged from the development of a science between psychology, social science and finance.

Key-Words: economics, environmental management, financial literacy, intellectual capital.

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1. Introduction

The financial inclusion movement is carried out to be able to suppress and reduce the number of unbanked people around the world, one of which is in Indonesia(Jaya, 2019). The main reason why people are classified as unbanked is the level of education, so this condition also affects their knowledge (Ilahiyah, Soewarno, & Jaya, 2021; Jaya, 2019; Schmied & Marr, 2016; Sethi & Sethy, 2019; Sharma, 2016). Education is very important to be able to reduce the percentage rate of the number of unbanked people. This statement is supported by some old literature that an educated and financially knowledgeable society can succeed in financial inclusion(Ilahiyah et al., 2021; Jaya, 2019; Pham & Doan, 2020; Ratnawati, 2020a). Financial knowledge includes knowledge of basic financial concepts, such as: the basis of compound interest, the difference between nominal value and real value, basic knowledge of risk diversification, time value, value of money, and others (Grohmann, 2017; Ramesh Prasad, 2014; Trinugroho, Sawitri, Toro, Khoiriyah, & Santoso, 2017). Some of the literature shows that knowledge through education (Intellectual capital) is very important to reduce financial inclusion today.

Various countries in the world have formulated several ways to reduce financial exclusion using two approaches, namely comprehensively by formulating a national strategy such as Indonesia, Nigeria, Tanzania or through various separate programs, for example financial education as carried out by the United States government after the 2008 crisis. In

general, the approach through a national strategy includes 3 (three) aspects, namely provision of appropriate service facilities, the provision of suitable products, responsible finance through financial education and consumer protection. The implementation of financial inclusion is generally carried out in stages, starting with clear targets such as through recipients of government social program assistance or migrant workers, before gradually being used by the general public.(Hidajat, 2015).If we look at several financial inclusion indicators between developed and developing countries, it can be seen that account ownership in developed countries, such as Europe, the United States, and OECD countries is currently above 50% of the total population and is inversely proportional with developing countries, such as Africa, Latin America, Indonesia, and East Asia, which are still around 30 percent on average. Furthermore, the percentage of account ownership developed countries is also directly proportional to the level of income per capita, which is above US\$20,000 on average. The higher the GDP per capita, the higher the percentage of account ownership in formal financial institutions. On the other hand, the lower the GDP per capita in developing countries, the lower the percentage of account ownership(Huang & Chen, 2015).

The comparison of financial access is also very different between developed and developing countries. In developed countries, only 8% of the population does not have access to finance, while in developing countries it still reaches 59% of the total population. In terms of lending, in developing countries it is only in the range of 35% of Gross Domestic Product (GDP), while in Malaysia it has reached 100%. Meanwhile, in Indonesia, only 20% of the Indonesian population aged over 15 years have access to the financial sector. Furthermore, only 2 million people or less than 1 percent of Indonesia's 230 million population can access the capital market. Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%. One of the factors causing the low level of financial knowledge is the geographical condition of Indonesia, which in general is around 60% in rural areas. This condition shows that eCurrently, the government still needs support from other parties in order to be able to reduce the level of financial inclusion(Jaya, 2019). Herdiiono Damanik (2016) stated that financial knowledge theory has a close relationship with financial literacy because it can be taught and understood through financial education. The provision of financial education can also increase financial knowledge, and can reduce the occurrence of financial problems in the future, and increasing financial knowledge will also increase the ability of entrepreneurs to use financial services at existing financial institutions.(Arifin, 2017).

Someone who has good financial behavior, then he will be responsible for his finances by using money effectively and budgeting, saving money and controlling expenses, making investments, and paying debts on time (Sethi & Sety, 2019). Behavioral finance is the result of putting expectations and values into action, with the expectation that behavioral finance will mediate the relationship of expectations to well-being(Burcher, financial Serido, Danes, Rudi, & Shim, 2021). Financial behavior emerged in the 1990s in line with the demands of the development of the

business and academic world which began to address behavioral aspects or elements in the process of making financial and investment decisions. Behavioral finance describes how a person treats, manages, and uses the financial resources he has. Research conducted by Mien, Nguyen Thi Ngoc (2015) states that financial literacy and financial knowledge affect financial behavior.

Financial knowledge, skills, and beliefs possessed by an individual affect his financial attitudes and behavior(Mien, Nguyen Thi Ngoc, 2015). An increase in one's knowledge can have an impact on active participation in financial-related activities, as well as more positive financial behavior in an individual(Ilahiyah et al., 2021). In addition, the relationship between behavior and a person's attitude is seen in his positive attitude for the long term which is likely to show better financial behavior compared to someone who has financial attitudes and behavior in the short term. Financial literacy and financial inclusion are important things for the government to pay attention to. This is because financial literacy and financial inclusion have an impact on people's welfare(Pham & Doan, 2020; Ratnawati, 2020b; Sahela, Susanti, & Adjie, 2021). The higher the financial literacy index and the financial inclusion index in Indonesia, the higher the level of community welfare. Therefore, research was conducted by focusing and convincing many people about importance of financial behavior and financial literacy for the succession of financial inclusion through the intellectual capital of the people in Indonesia.

This writing then discusses the grand theory used in understanding the flow of thought in writing this article Then the next chapter will discuss the research methods used and the discussion of the test results. In the last section, the novelty of this research will be concluded which can be used as a variety of new concepts in overcoming financial inclusion in developing countries, such as Indonesia.

2. Literature review and Hypothesis Development

This sub-chapter will describe the grand theory that underlies this research as well as some literature that is used as a reference for the preparation of this research hypothesis.

Early theories that are considered capable of explaining a person's behavior, focused on two possibilities (1) behavior is acquired from heredity in the form of biological instincts-then known as "nature" explanations and (2) behavior is not inherited but obtained from experience during life. they are known as "nurture" descriptions. The various alternatives that developed from the two approaches then gave rise to various perspectives in social psychology in the form of a set of basic assumptions about the most important things that can be considered as something that can be used to understand social behavior (Fishbein, M, & Ajzen, 1975). This study considers several grand theories that are appropriate to explain understanding of human financial behavior, namely:

2.1. Field Theory

This theory examines social behavior through the concept of "field" or "space of life" - life space. This concept emphasizes that individual character (instincts and habits) is very independent from the influence of the situation in which the individual carries out activities in his life space (past, present, future). Living space contains all possible facts that can determine individual behavior. Living space includes everything that must be known to understand the concrete behavior of individual humans in a certain psychological environment at a certain time. A person's behavior or movement will occur if there is sufficient force to push it. When the unbanked community gets a positive boost, financial inclusion will also decline, and vice versa(Statman, 2008). Psychologically, a person's basic needs will arise because of the influence of the

surrounding environment in which the person is located.

2.2. Theory of Reasoned Action

This theory is related to belief, attitude, intention and behavior (Fishbein, M, & Ajzen, 1975). Will is the best predictor of behavior, meaning that the best way to know what someone will do is to know that person's will. However, basically everyone will make judgments based on different reasons (not always based on will). An important concept contained in this theory is the focus of attention (salience), which is considering something that is considered important. Intention is determined by subjective attitudes and norms on specific attitudes towards something, a person's behavior is not only influenced by attitudes but also by subjective norms, namely beliefs in ourselves about what other people want us to do., and attitudes toward a behavior that is accompanied by subjective norms, thus forming an intention or intention to behave in a certain way. Intention or intention is one of the functions of two basic determinants, namely, an individual's attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing that behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation obev to opinions.(Jackling, Cooper, Leung, Dellaportas, 2007). Simply put, this theory explains that someone will do an action, when it is considered positive and other people will also do it.

Behavioral finance is a new paradigm of a financial theory, this theory seeks to make it easier to understand and predict systematic financial markets (Bebbington, Gray, Thomson, & Walters, 1994). This theory is implicated when someone makes psychological decisions. Simply behavioral finance focuses on the concept of human behavior from the point of view psychology influences of that individual's human decisions. Psychology can also be referred to as money psychology. This is because there is evidence that psychological influences can bury the character of each individual as homo economicus. Homo economicus is a which states that humans economic creatures who aim to fulfill all their needs, including their desires(Bostan, 2011; Latan, Ringle, & Jabbour, 2018). Homo economicus theory only thinks rationally in all its actions, but it is not

always in accordance with the reality in human life, especially in terms of prioritizing needs (Bostan, 2011).

2.3. Financial Behavior and Financial Inclusion

Someone who has good financial behavior will be responsible for his finances by using money effectively by budgeting, saving money and controlling expenses, making investments, and paying debts on time. Behavioral finance is the result of putting expectations and values into action, with the expectation that behavioral finance will mediate the relationship of expectations to financial well-being(Burcher et al., 2021).

according to (Ricciardi, Victor & Simon, 2008), the keys to having a basic understanding of behavioral finance include:

- a) Psychology is the scientific study of behavior and mental processes that are influenced by one's physical, mental and external environment.
- b) Sociology is a systematic study of behavior and social groups that focuses on the influence of social relations on people's attitudes and behavior.
- c) Finance is concerned with determining value and making decisions that function to allocate capital including acquisitions, investments, and financial management.

Psychology Sociology

Behavioral Finance

Finance

Figure 1. Aspects in Financial Behavior

Sources: Ricciardi, Victor & Simon (2008).

Research conducted (Navickas, Gudaitis, & Krajnakova, 2014; Schmied & Marr, 2016) states that individual financial planning responsibilities need to be carried

out as early as possible, because financial management errors will be very detrimental and difficult to correct in the future.

2.4. Financial Literacy and Financial Inclusion

Financial literacy is a basic need for everyone to avoid financial problems(Jaya, 2019). Financial difficulties can arise if there is an error in financial management (mismanagement). Having financial literacy is the most important thing to get a prosperous life(Pham & Doan, 2020). With proper financial management supported by good financial literacy, the community's standard of living is expected to improve increase. This is because even though a person's income level is high, without proper financial management, financial security will definitely be difficult to achieve.

The need for education to the public on financial products, both bank and non-bank, is very urgent so that the public is not easily deceived by irresponsible parties. The importance of financial literacy in the form of all aspects of personal finance is not because it makes it difficult to use the money they have, but it is hoped that individuals can enjoy life by using the financial resources they have appropriately. Those who are literate will have many advantages. Statements submitted(Hidajat, 2015)that financial literacy programs can be a cure for various diseases related to financial crises. Some of the positive sides for those who have high financial literacy include having skills in financial management, making financial decisions that are relevant to information and minimizing opportunities for making financial mistakes, having investments in the capital market, and being able to minimize and overcome financial problems that arise, in the future it will be beneficial for a prosperous, healthy and happy life.

2.5. Financial Behavior and Financial Literacy to reduce financial inclusion through Intellectual capital

Intellectuals are abilities possessed by individuals from birth, so that intellectuals will develop to adapt to their environment and move by themselves to all changes in

situations and conditions. (Ilahiyah et al., 2021). This person's ability is seen when he is doing activities. The activities or activities that he does can show that the individual is mastered in a certain field and not, so that the intellectual development of this individual will adapt to the situations and conditions that exist around his environment.(Sahela et al., 2021). For the ability to understand a certain concept, an individual needs a process such as learning or training over a certain period of time. This proves that an individual can receive learning when they practice and evaluate in a structured manner. Thus, this intellectual concept with financial inclusion assumes that when the government or cooperative educational institutions conduct training or coaching for some people who are classified as unbanked, they will begin to understand financial services until finally they are separated from the unbanked group.(Ilahiyah et al., 2021). Of course, this result can have an impact on the succession of financial inclusion programs from the government for a better future. Another opinion states that financial inclusion needs to be encouraged so that economic growth can grow(Ratnawati, 2020b). IFinancial inclusion will provide benefits to the community that will enable them to improve their standard of living, especially for those who live in remote areas as well as in border areas.(Sanjaya & Nursechafia, 2016). Financial inclusion is an important element in supporting accelerated economic growth. This action is carried out by optimizing the contribution of the financial sector and opening access to financial services as widely as possible to the public, especially also for business actors(Schmied & Marr, 2016).

From the various theoretical explanations and opinions above, this research formulates the following hypotheses.

H₁: Financial behavior is important to reduce financial inclusion

 \mathbf{H}_2 : Financial literacy is important to reduce financial inclusion

H₃: Financial behavior and financial literacy are important to reduce financial inclusion through intellectual capital.

FB01
FB02
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IC18
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FInancial Inclusion
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Figure 2. Research framework

3. Methodology

The research was conducted using quantitative methods. The data collection technique uses a questionnaire and literature study(Likert, 1932). Thus, the data collected will be classified as secondary data. The population in this study are all Indonesian citizens who live in urban Surabaya, and have the status as immigrants. The sampling method applied purposive sampling technique. The criteria used in determining the suitability of the sample in this study include:

- Indonesian citizens who have migrated to urban Surabaya and have savings or loans at banks.
- 2. Indonesian citizens who have migrated to urban Surabaya with a minimum

- education of Senior High School and income.
- 3. Indonesian citizens who have migrated to urban Surabaya are at least 35 years old and married.
- 4. Indonesian citizens who have migrated to the city of Surabaya who have jobs.
- 5. Indonesian citizens who have migrated to the urban area of Surabaya, but whose place of residence is more than 10 km (kilometers) from the city center.

So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are as follows: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree (1)(Likert, 1932).

Table 1.Operational Definition and Measurement of Variables

No.	Variable	Indicator				
1.	Financial Behavior (X1)	1) Create and record expense and expenditure budgets,				
		2) Provide funds for unexpected expenses,				
		3) The habit of saving once every month,				
		4) Perform price comparisons before making a purchase,				
		5) Pay bills on time.				
2.	Financial Literacy (X2)	1) Economic transactions and the like				
		2) Economic resources				
		3) Shopping concept				
		4) Save concept				
		5) Tax				
		6) Financial crime				

		7) Beliefs regarding financial institutions, their products and services
		(Kaiser & Menkhoff, 2017).
3.	Financial inclusion (Y)	1) Financial Knowledge
		2) Financial Behavior
		3) Financial Attitude
		4) Future planning (Jaya, 2019).
4.	Intellectual Capital (Z)	1) Curiosity and motivation
		2) Experience
		3) Innovation and Creativity
		4) Competency ability (Ilahiyah et al., 2021).

The analytical method in this study uses the Partial Least Square (PLS) method through a variance-based structural equation model (SEM) statistical test tool. Data analysis of this research was carried out using Smart

PLS and applying verification analysis consisted of three stages, namely measuring the outer model, evaluating the structural model (inner model), and testing the research hypothesis.

4. Results and Discussions

The results of the data analysis that have been carried out have found several things, including the following.

4.1. Characteristics of Respondents

The descriptive results of the characteristics of the respondents in this study used the number of male respondents as many as 175 people, less than the number of female respondents as many as 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged

30-42 years were 15 people. The educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are ranging from self-employed, diverse, contract employees, and permanent employees. This condition causes the amount of income he gets to vary from IDR 2,500,000 - IDR 4,500,000 every month. The needs of life are high enough to make their consumption power is also high. This resulted in their ability to save only about 12.88% of the total income of respondents (unbaked people).

4.2. Validity and Reliability Test

Table 2. Research Instrument Test Results

Variable	Items	Correlation (r)		Coefficient	
		r	Status	Alpha	Status
Financial Behavior (X1)	FB01	0.410	valid		reliable
	FB02	0.966	valid		
	FB03	0.966	valid	0.816	
	FB04	0.965	valid		
	FB05	0.963	valid		
Financial Literacy (X2)	FL06	0.543	valid	0.776	reliable
	FL07	0.918	valid		
	FL08	0.918	valid		
	FL09	0.342	valid		
	FL10	0.918	valid		
	FL11	0.918	valid		
	FL12	0.431	valid		
Financial inclusion (Y)	IK13	0.762	valid	0.792	reliable
	IK14	0.737	valid		
	IK15	0.839	valid		
	IK16	0.771	valid		
	IK17	0.631	valid		

Intellectual Capital (Z)	IC18	0.886	valid	0.839	reliable
	IC19	0.896	valid		
	IC20	0.896	valid		
	IC21	0.886	valid		

Based on Table 3. shows that all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is

greater than 0.6. Thus, it means that all question items for each variable are valid and reliable for further testing.

4.3. SEM (Structural Equation Model) Test

The stages before carrying out the SEM test, will be testing the outer model and inner model. This outer model test uses Composite reliability data which measures a construct. Dimensions are considered

reliable if they have a composite reliability value (ρ c) above 0.7, as follows.

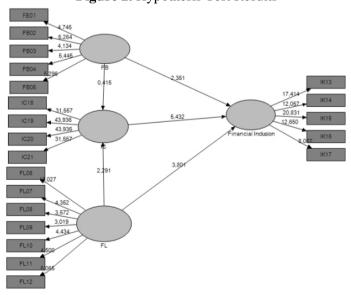
Table 3. Composite reliability calculation results

Dimension	Composite Reliability	R-Square
Financial Behavior (X1)	0.884	-
Financial Literacy (X2)	0.834	-
Financial inclusion (Y)	0.863	0.780
Intellectual Capital (Z)	0.939	0.208

The inner model is evaluated using R-Square for the dependent construct. The results of the calculations that have been carried out find that the R-Square value for the influence of financial behavior and financial literacy variables on financial

inclusion is 0.780 or 78%. While the influence of financial behavior and financial inclusion variables through intellectual capital on financial inclusion is 0.208 or 20.8%.

Figure 2. Hypothesis Test Results



Hypothesis testing is done by comparing the t-count value with the t-table value, if the t-count value is greater than t-table, then the relationship is significant between the variables and vice versa when t-count is less than t-table, then there is no significant relationship between the variables. The amount of data tested is 500, then the value of t table (α = 5%) obtained 1,964. The presentation is as follows.

Table 4. Influence between research variables

Hypothesis		Influence		t count	koef.path	Information
H1	Financial behavior →	Financial inclusion		2,913*	-0.691	Significant
H2	Financial literacy →	Financial inclusion		4,272*	1.136	Significant
Н3	Financial behavior & → Financial literacy	→ Intellectual capital →	Financial inclusion	5,513*	0.416	Significant

The test results shown in table 4 will then be presented and carried out with wetting and discussion with some of the previous literature, the explanation is as follows.

4.4. Discussions

- a. Financial behavior has a positive and significant influence on financial inclusion with a CR value (t count > t table (2.913 > 1.964) and a path coefficient of -0.691, this coefficient indicates that there is a significant negative relationship between financial behavior and financial inclusion. The increasing public financial behavior in developing countries, this will also suppress the level of financial inclusion in general. Conversely, when the financial behavior of people in developing countries is still low, the level of financial inclusion will be higher. This condition will certainly make it difficult for the country to prosper and prosper its people (Arifin, 2017; Mien, Nguyen Thi Ngoc, 2015). This result also indicates that the first hypothesis is not rejected.
- b. Financial literacyhas a positive and significant influence on financial inclusion with a CR value (t count > t table (4,272 > 1,964) and a path coefficient of 1,136, this coefficient indicates that there is a significant positive relationship between financial literacy and financial inclusion. The better the level of public financial literacy. this will also increase inclusion finance in general(Widyatini, 2019). These results also indicate that the second hypothesis is not rejected.

c. Intellectual capital is able to intervene strongly in the relationship between financial behavior and financial literacy on financial inclusion with a CR value (t count > t table (5.513 >1.996) and a path coefficient of 0.416, this coefficient indicates that there is a significant positive relationship financial behavior between with financial literacy financial inclusion. These results also indicate that a person's intellectual capital ability regarding financial behavior and financial literacy can grow access to finance for the community, so that financial inclusion can be reduced in general(Sethi & Sety, 2019). This result also indicates that the third hypothesis is not rejected.

The findings of this study are certainly different from several previous studies (Arifin, 2017; Grohmann, 2017; Herdjiono & Damanik, 2016; Divine et al., 2021; Jaya, 2019; Kaiser & Menkhoff, 2017; Kandari, Bahuguna, & Salgotra, 2021; Lusardi & Tufano, 2015; Mien, Nguyen Thi Ngoc, 2015; Nigam, Srivastava, & Banwet, 2016; Pham & Doan, 2020; Ramesh Prasad, 2014; Sahela et al., 2021). This difference is not only a research gap, but leads to a recent finding on the development of a science between psychology, social science and finance that gave rise to the current concept of financial behavior.

5. Conclusions

Data collection, calculation, testing and analysis of data that have been carried out found findings that financial behavior and financial literacy have a positive and significant influence on financial inclusion. These results prove that a person's behavior and intellectuality about finances plays a very important role in the ups and downs of financial inclusion in developing countries. These two variables also depend on the level of public education that he takes, when a person has received a proper education, then he will be smarter in behavior to maintain his financial ability.(Lusardi & Tufano, 2015; Nigam et al.. 2016). Of course this findingcontributing is very important for stakeholders who want to improve financial access for all unbanked people developing countries, through the concept of financial behavior.

We give great appreciation to the respondents for helping in obtaining

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opinions and data for carrying out this research in the new normal period. We realize that it is difficult to conduct research in the new normal because many parties keep their distance from each other for the sake of mutual health. KThis updated concept is still difficult to apply and translate into learning curricula for the unbaked community in developing countries today. This is because the differences in behavior and intellectuality of the unbanked people in each developing country are very unique and not the same as Indonesia. There needs to be cooperation from various elements, such as the central each country, academics. practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

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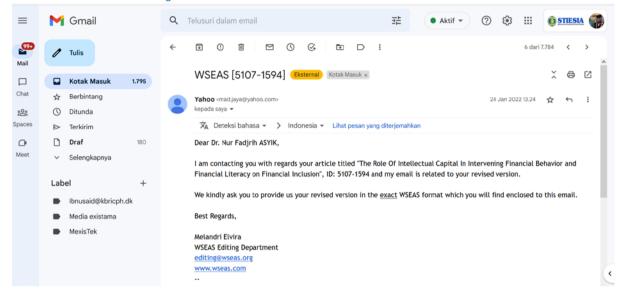
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24 Januari 2022

Klarifikasi dari editor jurnal WEAS



Dear Dr. Nur Fadjrih ASYIK,

I am contacting you with regards your article titled "The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion", ID: 5107-1594 and my email is related to your revised version.

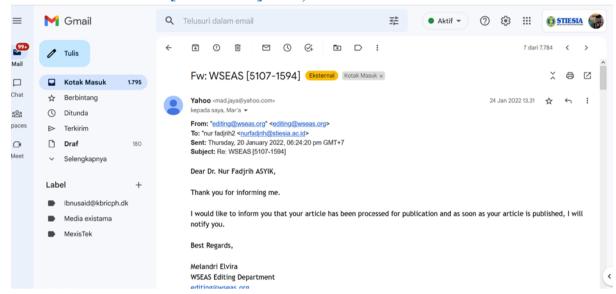
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Subject: Re: WSEAS [5107-1594]

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Subject: WSEAS [5107-1594]

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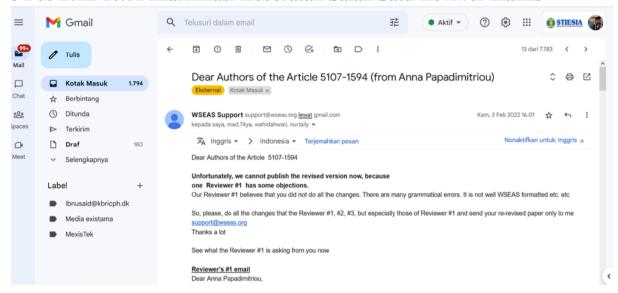
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3 Feb 2022 16.01 Klarifikasi Keberatan Salah Satu Reviwer Kamis



Dear Authors of the Article 5107-1594

Unfortunately, we cannot publish the revised version now, because one Reviewer #1 has some objections.

Our Reviewer #1 believes that you did not do all the changes. There are many grammatical errors. It is not well WSEAS formatted etc. etc

So, please, do all the changes that the Reviewer #1, #2, #3, but especially those of Reviewer #1 and send your re-revised paper only to me support@wseas.org
Thanks a lot

See what the Reviewer #1 is asking from you now

Reviewer's #1 email

Dear Anna Papadimitriou,

I hope this email finds you well.

I reviewed the paper, 5107-1594, the second time. The authors did not do all the changes.

There are many grammatical errors. It is not well Wseas formatted.

I only read 7 pages of the paper, I was very upset about seeing unchanged mistakes. If they do all changes and put the paper in Wseas format, it can be published.

Please find my comments below:

Abstract:

"The number of samples in this study were 500 respondents. The analysis method uses the Partial Least Square (PLS) method through the statistical test tool of the structural equation model (SEM) based on variance." Should be rewritten.

Main body, the paragraphs have to start without intend.

2nd page, left column:

"Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%."

Data are plural, it should be ...in 2016 show that.....

2nd page, left column:

"This condition shows that eCurrently, the government still needs support from other parties in order to be able to reduce the level of financial inclusion[1]. Herdjiono & Damanik (2016) stated that financial knowledge"

What is eCurrently?

A reference should be numbered, it is not numbered.

2nd page, left column:

"existing financial institutions.[14]." Remove the full stop before the reference number.

2nd page, left column:

"Behavioral finance describes how a person treats, manages, and uses the financial resources he has._Research conducted by Mien, Nguyen Thi Ngoc (2015) states that financial literacy and financial knowledge affect financial behavior."

"he has._" is unnecessary

2nd pager right column:

"possibilities (1) behavior is acquired from heredity in the form of biological instincts-then known as "nature" explanations and (2) behavior is not inherited but obtained from experience during life. they are known as "nurture" descriptions."

What does it mean ". they" in the above sentence?

3rd page left column:

The paragraph ends with "namely:". You should write them, you cannot continue the subsection without completing the sentence..

3rd page left -right columns:

"Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. [21]."

The same sentence repeated three times. I wrote this in my first review, they did not change.

What does "Simply put, this theory explains that someone will do an action, when it is considered positive and other people will also do it." mean?

A reference cannot be referred in the text "According to [25], the keys to having a basic understanding of behavioral finance include:"

Page 4:

"Fig. 1: Aspects in Financial Behavior"

It is not Wseas format, It should be Fig. 1 Aspects in.....

There should be space between Figure 1 and the paragraph

"Research conducted [4], [26] states that individual financial planning responsibilities need to..." Which research was conducted? And a reference cannot be referred to as [26] states that......

The full stop must be removed between sentence and the reference number.

"IFinancial inclusion will provide benefits to the community that will enable them to improve their...."

What does "IFinancial" mean?

What does "Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions." mean?

Page 5:

"So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are as follows: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree (1)[28]" should be rewritten.

Table 1 or other tables and figures should be in picture format, otherwise it cannot show meaningful results as in table 1. For example, the numbers of indicators cannot be seen.

Numbering references in the text: Please put space between the sentence and reference number.

"The results of the data analysis that have been carried out have found several things, including the following." Rewrite this.

Page 6: "The descriptive results of the characteristics of the respondents in this study used the number of male respondents as many as 175 people, less than the number of female respondents as many as 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years were 15 people. The educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees." Rewrite with simple and clear sentences.

Table 2: it should be in picture format, otherwise the words or the numbers cannot be read correctly.

Page 7:

"Based on Table 3 shows that all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6." remove "shows that"

.

If you have further questions, please let me know. Best regards,

On Wed, Feb 2, 2022 at 5:33 AM WSEAS Support < support@wseas.org> wrote: Dear Professor ********

The revised version of the article 5107-1594 is attached Tell us if you agree to be published now or not and if the authors made the changes that you have asked.

We remind you that you were a reviewer of this article. See your comments below.

Deadline to reply and send us your decision: February 12, 2022

Reply by email to support@wseas.org

Best Regards

Dr. Anna Papadimitriou WSEAS Managing Editor

----- See your review here -----

Paper ID: 5107-1594

Title: The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

Can you check if this paper or part of this paper has been published elsewhere? Please, if yes, report what you have found by Turnitin or Ithenticate or simple Google search:

Comments and Remarks (minimum 500 characters): Title: of and in should be written in lower case letter. Abstract: it should be plain format, not italic. There are many grammatical errors. It is not formatted. It formatted in two columns, but the text continues in the second column if there is a table or new section. Title of the figures should be under the figure. Space necessary between the text and tables and figures. It can be published after a major review: Improve English, format the paper. References are not in the Wseas format, and not numbered in the text.

Have the authors published some papers recently in this area in the last 5 years? (Check with GoogleScholar): **YES**

Does the paper contribute to the body of knowledge?: Yes

Is the abstract thoroughly written? Does it represent the main text of the article?: YES

Is the organisation (logical flow, use of headings) outstanding?: **YES**

Is the subject matter presented in a comprehensive manner?: **NO**

Does the paper contain direction for future research and recommendations?: No.

Is the English language appropriate?: NO

Are the Sessions and their paragraphs well and clearly written? Which Sessions and which Paragraphs of this paper need extensions and clarifications? Please, specify: There are many grammatical errors. They should be corrected. Under table 2, they need to explain the abbreviated notations. Discussion: It says "The findings of this study are certainly different from several previous studies". They need to explain the differences

Which mathematical equations in the article need clarifications? Which Theorems need clarifications and extensions? Are the mathematical theorems accompanied by the proper numerical examples? Please, specify.: There is no mathematical equation need clarification. Results were presented in tables and figures.

For Experimental Work. Do you believe that these experiments were really held? With what Equipment? Where? Are they accompanied with Photos, Tables and other Documentation?: The survey technique was used. The results are presented with tables and figures.

For Articles in Biomedical, Financial and Social Sciences we demand strong and well-documented Statistics. Have the authors carried out and included the right Statistical tests like: t-text, Chi Square etc? Please, check.: Partial Least Square Method and structural equation model were used. They are right techniques.

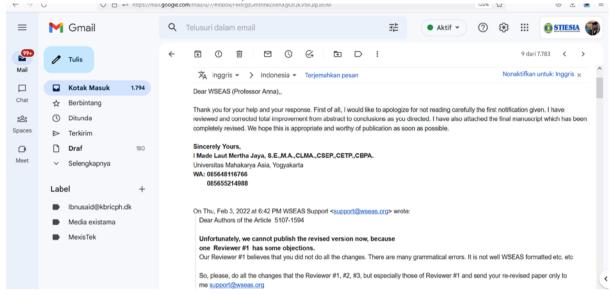
What Simulation / Statistics / Experiments / Experimental Analysis in the paper need extension and more clarifications? In which paragraphs?: **None**

Can you check if the Figures and Tables of the article are dully illustrated and presented inside the text? Are they connected with the main text of the article?: **Yes, they are presented the text. They are connected with the main article.**

Do the authors use abbreviations without the necessary explanations? If the authors use the abbreviation GOT, what GOT stands for?: Yes, except GDP which was defined after using the abbreviated form.

4 Feb 2022 08.57

Klarifikasi komentar reviwer Jum,



Dear WSEAS (Professor Anna),,

Thank you for your help and your response. First of all, I would like to apologize for not reading carefully the first notification given. I have reviewed and corrected total improvement from abstract to conclusions as you directed. I have also attached the final manuscript which has been completely revised. We hope this is appropriate and worthy of publication as soon as possible.

Sincerely Yours,

I Made Laut Mertha Jaya, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766 085655214988

On Thu, Feb 3, 2022 at 6:42 PM WSEAS Support < support@wseas.org > wrote: Dear Authors of the Article 5107-1594

Unfortunately, we cannot publish the revised version now, because one Reviewer #1 has some objections.

Our Reviewer #1 believes that you did not do all the changes. There are many grammatical errors. It is not well WSEAS formatted etc. etc

So, please, do all the changes that the Reviewer #1, #2, #3, but especially those of Reviewer #1 and send your re-revised paper only to me support@wseas.org
Thanks a lot

See what the Reviewer #1 is asking from you now

Reviewer's #1 email

Dear Anna Papadimitriou,

I hope this email finds you well.

I reviewed the paper, 5107-1594, the second time. The authors did not do all the changes.

There are many grammatical errors. It is not well Wseas formatted.

I only read 7 pages of the paper, I was very upset about seeing unchanged mistakes. If they do all changes and put the paper in Wseas format, it can be published.

Please find my comments below:

Abstract:

"The number of samples in this study were 500 respondents. The analysis method uses the Partial Least Square (PLS) method through the statistical test tool of the structural equation model (SEM) based on variance." Should be rewritten.

Main body, the paragraphs have to start without intend.

2nd page, left column:

"Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%."

Data are plural, it should be ...in 2016 show that.....

2nd page, left column:

"This condition shows that eCurrently, the government still needs support from other parties in order to be able to reduce the level of financial inclusion[1]. Herdjiono & Damanik (2016) stated that financial knowledge"

What is eCurrently?

A reference should be numbered, it is not numbered.

2nd page, left column:

"existing financial institutions.[14]." Remove the full stop before the reference number.

2nd page, left column:

"Behavioral finance describes how a person treats, manages, and uses the financial resources he has._Research conducted by Mien, Nguyen Thi Ngoc (2015) states that financial literacy and financial knowledge affect financial behavior.

"he has._" is unnecessary

2nd pager right column:

"possibilities (1) behavior is acquired from heredity in the form of biological instincts-then known as "nature" explanations and (2) behavior is not inherited but obtained from experience during life. they are known as "nurture" descriptions."

What does it mean ". they" in the above sentence?

3rd page left column:

The paragraph ends with "namely:". You should write them, you cannot continue the subsection without completing the sentence..

3rd page left -right columns:

"Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. [21]."

The same sentence repeated three times. I wrote this in my first review, they did not change.

What does "Simply put, this theory explains that someone will do an action, when it is considered positive and other people will also do it." mean?

A reference cannot be referred in the text "According to [25], the keys to having a basic understanding of behavioral finance include:"

Page 4:

"Fig. 1: Aspects in Financial Behavior"

It is not Wseas format, It should be Fig. 1 Aspects in.....

There should be space between Figure 1 and the paragraph

"Research conducted [4], [26] states that individual financial planning responsibilities need to..." Which research was conducted? And a reference cannot be referred to as [26] states that......

The full stop must be removed between sentence and the reference number.

"IFinancial inclusion will provide benefits to the community that will enable them to improve their...."

What does "IFinancial" mean?

What does "Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions." mean?

Page 5:

"So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are as follows: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree (1)[28]" should be rewritten.

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The revised version of the article 5107-1594 is attached Tell us if you agree to be published now or not and if the authors made the changes that you have asked.

We remind you that you were a reviewer of this article. See your comments below.

Deadline to reply and send us your decision: February 12, 2022

Reply by email to support@wseas.org

Best Regards

Dr. Anna Papadimitriou WSEAS Managing Editor

----- See your review here -----

Paper ID: 5107-1594

Title: The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

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Is the subject matter presented in a comprehensive manner?: **NO**

Does the paper contain direction for future research and recommendations?: No.

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Do the authors use abbreviations without the necessary explanations? If the authors use the abbreviation GOT, what GOT stands for?: **Yes, except GDP which was defined after using the abbreviated form.**

Berkas Revisi 4 February 2022

The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

NUR FADJRIH ASYIK^{1*}, WAHIDAHWATI², NUR LAILY³

^{1,2}Senior Lecture, Department of Accounting, Sekolah Tinggi Ilmu Ekonomi Indonesia Surabaya (STIESIA), INDONESIA

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Abstract: -Education is very important to reduce the percentage rate of the number of unbanked people. This research was conducted by focusing and convincing many people about the importance of financial behavior in reducing financial inclusion in developing countries, such as Indonesia. The number of samples are use 500 respondents. The analysis method uses the Partial Least Square (PLS) method and structural equation model (SEM) based on variance. This research found that financial behavior and financial literacy have a positive and significant influence on financial inclusion. Intellectual capital also detected capable of intervening a strong relationship between financial behavior and financial literacy on financial inclusion. This discovery contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries through the concept of financial behavior. There needs to cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

Key-Words: - economics, environmental management, financial literacy, intellectual capital. Received: May 31, 2019. Revised: May 4, 2020. Accepted: May 22, 2020. Published: May 29, 2020 (WSEAS will fill these dates in case of final acceptance, following strictly our data base and possible email communication).

1 Introduction

The financial inclusion movement is carried out to suppress and reduce the number of unbanked people around the world, one of which is in Indonesia [1]. The primary reason people are classified as unbanked is the level of education, so this condition also affects their knowledge [1]-[5]. Education is very important to reduce the percentage rate of the number of unbanked people. This statement is supported by some old literature that an educated and financially knowledgeable society can succeed in financial inclusion [1], [3], [6], [7]. Financial knowledge includes knowledge of basic financial concepts, such as the basis of compound interest, the difference between nominal value and real value, basic knowledge of risk diversification, time value, value of money, and others [8]-[10]. Some of the literature shows that knowledge through

education (Intellectual capital) is very important to reduce financial inclusion today.

Various countries in the world have planned several ways to reduce financial exclusion using two approaches, comprehensively by formulating a national strategy such as Indonesia, Nigeria, Tanzania or through various separate programs, for example financial education as carried out by the United States government after the 2008 crisis. The approach through a national strategy includes 3 (three) aspects, namely the provision of service facilities, the provision of suitable products, responsible finance through financial education and consumer protection. Implementing financial inclusion is carried out in stages, starting with obvious targets such as thorough recipients of government social program help or migrant workers, before gradually being used by the public [11]. If we look at several financial inclusion indicators between developed and developing countries, it can be seen that account ownership in developed countries, such as Europe, the United States, and OECD countries is currently above 50% of the total population and is inversely proportional with developing countries, such as Africa, Latin America, Indonesia, and East Asia, which are still around 30 percent on average. Percentage of account ownership in developed countries is also directly proportional to the level of income per capita, which is above US\$20,000 on average. The higher the GDP per capita, the higher the percentage of account ownership in formal financial institutions. The lower the GDP per capita in developing countries, the lower the percentage of account ownership [12].

The comparison of financial access is also very different between developed and developing countries. In developed countries, only 8% of the population does not have access to finance, while in developing countries it still reaches 59% of the total population. To lend in developing countries, it is only between of 35% of Gross Domestic Product (GDP), while in Malaysia it has reached 100%. Meanwhile, in Indonesia, only 20% of the Indonesian population aged over 15 years has access to the financial sector. Only 2 million people or fewer than 1 percent of Indonesia's 230 million population can access the capital market. Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%. One factors causing the low level of financial knowledge is the geographical condition of Indonesia, which is around 60% in rural areas. This condition shows that, currently, the government still needs support from other parties in order to reduce the level of financial inclusion [1]. Financial knowledge theory has a close relationship with financial literacy because it can be taught and understood through financial education. The provision of financial education can also increase financial knowledge, and can reduce the occurrence of financial problems in the future, and increasing financial knowledge will also increase the ability of entrepreneurs to use financial services at existing financial institutions [13].

Someone who has good financial behavior, then he will be responsible for his finances by using money effectively and budgeting, saving money and controlling expenses, making investments, and paying debts on time [2]. Behavioral finance results from of putting expectations and values into action, expecting behavioral finance will mediate relationship of expectations to financial wellbeing [14]. Financial behavior emerged in the 1990s in line with the demands of the development of the business and academic world, which addressed behavioral aspects or elements in making financial and investment decisions. Behavioral finance describes how a person treats, manages, and uses the financial resources.

Financial knowledge, skills, and beliefs possessed by an individual affect his financial attitudes and behavior. An increase in one's knowledge can affect active participation in financial-related activities, as well as more positive financial behavior in an individual [3]. In addition, the relationship between behavior and a person's attitude is seen in his positive attitude for the long term, which is likely to show better financial behavior compared to someone who has financial attitudes and behavior in the short term. Financial literacy and financial inclusion are important things for the government to pay attention to. This is because financial literacy and financial inclusion impact on people's welfare [6], [15], [16]. The higher the financial literacy index and the financial inclusion index in Indonesia, the higher the level of community welfare. Therefore, this research was conducted by focusing and convincing many people about the importance of financial behavior and financial literacy for the succession of financial inclusion through the intellectual capital of the people in Indonesia.

This writing then discusses the grand theory used in understanding the flow of thought in writing this article. Then the next chapter will discuss the research methods used and the discussion of the test results. In the last section, the novelty of this research will be concluded, which can be used as a variety of new concepts in overcoming financial inclusion in developing countries, such as Indonesia.

2 Literature review

This sub-chapter will describe the grand theory that underlies this research, as well as some literature that is used as a reference for preparing of this research hypothesis.

Early theories that can explain a person's behavior, focused on two possibilities (1) behavior is gained from heredity as biological instincts-then known as "nature" explanations and (2) behavior is not inherited but got from experience during life. The various alternatives that developed from the two approaches then gave rise to various perspectives in social psychology as a set of basic assumptions about the most important things that can be considered as something that can understand social behavior [17]. This study considers several grand theories that are appropriate for explaining the understanding of human, financial behavior, namely:

2.1. Field Theory

This theory examines social behavior through the concept of "field" or "space of life" - life space. This concept emphasizes that individual character (instincts and habits) is very independent from the influence of the situation in which the individual carries out activities in his life space (past, present, future). Living space contains all facts that can determine individual behavior. Living space includes everything that must understand the concrete behavior of individual humans in a certain psychological environment at a certain time. A person's behavior or movement will occur if there is sufficient force to push it. When the unbanked community gets a positive boost, financial inclusion will also decline, and vice versa [18]. Psychologically, a person's basic needs will arise because of the influence of the surrounding environment in which the person is located.

2.2. Theory of Reasoned Action

This theory is related to belief, attitude, intention and behavior [17]. Will is the best predictor of behavior, meaning that the best way to know what someone will do is to know that person's will. However, basically everyone will make judgments based on different reasons (not always based on will). An important concept in this theory is the focus of attention (salience), which is considering

something that is important. Intention is determined by subjective attitudes and norms on specific attitudes towards something, a person's behavior is not only influenced by attitudes but also by subjective norms, namely believes in ourselves about what other people want us to do and attitudes toward a behavior that is accompanied by subjective norms, thus forming an intention or intention to behave in a certain way. Intention or intention one function of two basic determinants: an individual's attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing that behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior.

Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions [19]. Simply put, this theory explains that someone will do an action when it is positive and other people will also do it.

Behavioral finance is a new paradigm of a financial theory. This theory seeks to make it easier to understand and predict systematic financial markets [20]. This theory is implicated when someone makes psychological decisions. Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions. Psychology can also be referred to as money psychology. This is because there is evidence that psychological

influences can bury the character of each individual as homo economics. Homo economics is a term which states that humans are economic creatures who aim to fulfill all their needs, including their desires [21], [22]. Homo economics theory only thinks rationally about all its actions, but it is not always under the reality in human life, especially to prioritize needs [22].

2.3. Financial Behavior and Financial Inclusion

Someone who has good financial behavior will be responsible for his finances by using money effectively by budgeting, saving money and controlling expenses, making investments, and paying debts on time. Behavioral finance result from putting expectations and values into action, expecting

behavioral finance will mediate the relationship of expectations to financial well-being [14].

According to [23], the keys to having a basic understanding of behavioral finance include:

- d) Psychology is the scientific study of behavior and mental processes that are influenced by one's physical, mental and external environment.
- e) Sociology is a systematic study of behavior and social groups that focuses on the influence of social relations between people's attitudes and behavior.
- f) Finance is concerned with determining value and making decisions that function to allocate capital, including acquisitions, investments, and financial management.

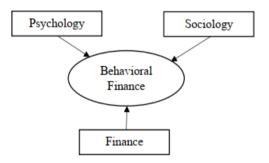


Figure 1 Aspects in Financial Behavior

Sources: Ricciardi, Victor & Simon (2008).

Research conducted [4], [24] states that individual financial planning responsibilities need to be carried out as early as possible,

2.4. Financial Literacy and Financial Inclusion

Financial literacy is a basic need for everyone to avoid financial problems [1]. Financial difficulties can arise if there is an error in financial management (mismanagement). Having financial literacy is the most important thing to get a prosperous life [6]. With proper financial management supported by good financial literacy, the community's standard of living is expected to improve and increase. This is because even though a person's income level is high, without proper financial management, financial security will definitely be difficult to achieve.

The need for education to the public on financial products, both bank and non-bank, is

because financial management errors will be very detrimental and difficult to correct in the future.

very urgent so that the public is not easily deceived by irresponsible parties. The importance of financial literacy as all aspects of personal finance is not because it makes it difficult to use the money they have, but it is hoped that individuals can enjoy life by using the financial resources they have appropriately. Those who are literate will have many advantages. Statements submitted [11] show that financial literacy programs can be a cure for various diseases related to financial crises. Some of the positive sides for those who have high financial literacy include having skills in financial management, making financial decisions that apply to information and minimizing opportunities for making financial mistakes, having investments in the

capital market, and being able to minimize and overcome financial problems that arise. In the future, it will be beneficial for a prosperous, healthy and happy life.

2.5. Financial Behavior and Financial Literacy to reduce financial inclusion through intellectual capital

Intellectuals are abilities possessed by individuals from birth, so that intellectuals will develop to adapt to their environment and move by themselves to all changes in situations and conditions [3]. This person's ability is seen when he is doing activities. The activities that he does can show that the individual is mastered in a certain field and not, so that the intellectual development of this individual will adapt to the situations and conditions that exist around his environment [16]. For the ability to understand a certain concept, an individual needs a process, such as learning or training, over a certain period. This proves that an individual can receive learning when they practice and evaluate in a structured manner. Thus, this intellectual concept with financial inclusion assumes that when the government or cooperative educational institutions conduct training or coaching for some people who are classified

as unbanked, they will understand financial services until finally they are separated from the unbanked group [3]. Of course, this result can affect on the succession of financial inclusion programs from the government for a better future. Another opinion states that financial inclusion needs to be encouraged so that economic growth can grow [15]. Financial inclusion will provide benefits to the community that will enable them to improve their standard of living, especially for those who live in remote areas and in border areas [25]. Financial inclusion is an important element in supporting sped up economic growth. This action is carried out by optimizing the contribution of the financial sector and opening access to financial services as widely as possible to the public, especially also for business actors [4]. From the various theoretical explanations and opinions above, this research plans the following hypotheses. H₁: Financial behavior is important to reduce

financial inclusion

H₂: Financial literacy is important to reduce financial inclusion

H₃: Financial behavior and financial literacy are important in reducing financial inclusion through intellectual capital.

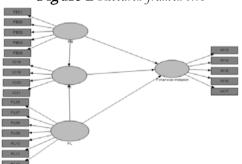


Figure 2 Research framework

3 Method

The research was conducted using quantitative methods. The data collection technique uses a questionnaire and literature study [26]. Thus, the data collected will be classified as secondary data. The population in this study are all Indonesian citizens who live in urban Surabaya and have the status of immigrants. The sampling method applied purposive sampling technique. The criteria used in determining the suitability of the sample in this study include:

- 6. Indonesian citizens who have migrated to urban Surabaya and have savings or loans at banks.
- 7. Indonesian citizens who have migrated to urban Surabaya with a minimum education of Senior High School and income.
- 8. Indonesian citizens who have migrated to urban Surabaya are at least 35 years old and married.
- 9. Indonesian citizens who have migrated to the city of Surabaya who have jobs.
- 10.Indonesian citizens who have migrated to the urban area of Surabaya, but whose place

of residence is over 10 km (kilometers) from the city center.

So, based on the above criteria, the number of samples set in this study was 500 immigrants

in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree(1) [26].

Table 1 Operational Definition and Measurement of Variables

No.	Variable	Indicator				
1.	Financial Behavior (X1)	6) Create and record expense and expenditure budgets,				
	• •	7) Provide funds for unexpected expenses,				
		8) The habit of saving once every month,				
		9) Perform price comparisons before making a purchase				
		10) Pay bills on time.				
2.	Financial Literacy (X2)	8) Economic transactions and the like				
		9) Economic resources				
		10) Shopping concept				
		11) Save concept				
		12) Tax				
		13) Financial crime				
		14) Beliefs regarding financial institutions, their products and				
		services [27].				
3.	Financial inclusion (Y)	5) Financial Knowledge				
		6) Financial Behavior				
		7) Financial Attitude				
		8) Future planning [1].				
4.	Intellectual Capital (Z)	5) Curiosity and motivation				
		6) Experience				
		7) Innovation and Creativity				
		8) Competency ability [3].				

The analytical method in this study uses the Partial Least Square (PLS) method through a variance-based structural equation model (SEM) statistical test tool. Data analysis of this research was carried out using Smart PLS and

4 Results and Discussions

4.1. Characteristics of Respondents

descriptive results the characteristics of the respondents in this study used the number of male respondents 175 people, less than the number of female respondents, 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years The 15 people. educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees. This condition causes the amount of income he gets to vary from IDR 2,500,000 - IDR 4,500,000 every month. The needs of life

applying verification analysis comprised three stages, namely measuring the outer model, evaluating the structural model (inner model), and testing the research hypothesis.

are high enough to make their consumption power is also high. This resulted in their ability to save only about 12.88% of the total income of respondents (unbaked people).

Figure 3 Gender respondents

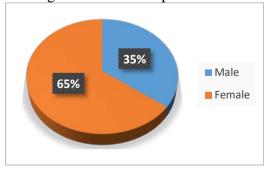


Figure 4 Respondent's age

6 3%

22-25 year's old
26-29 year's old
30-42 year's old



4.2. Validity and Reliability Test

Table 2 Research Instrument Test Results

		Correl	ation (r)	Coefficient		
Variable	Items	r	Status	Alpha	Status	
	FB01	0.410	valid			
	FB02	0.966	valid			
Financial Behavior (X1)	FB03	0.966	valid	0.816	reliable	
	FB04	0.965	valid			
	FB05	0.963	valid			
	FL06	0.543	valid			
	FL07	0.918	valid			
	FL08	0.918	valid			
Financial Literacy (X2)	FL09	0.342	valid	0.776	reliable	
	FL10	0.918	valid			
	FL11	0.918	valid			
	FL12	0.431	valid			
	IK13	0.762	valid			
	IK14	0.737	valid			
Financial inclusion (Y)	IK15	0.839	valid	0.792	reliable	
	IK16	0.771	valid			
	IK17	0.631	valid			
	IC18	0.886	valid			
Intellectual Capital (Z)	IC19	0.896	valid	0.839	reliable	
- , ,	IC20	0.896	valid			
	IC21	0.886	valid			

Based on Table 2, all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6. Thus,

4.3. SEM (Structural Equation Model) Test

The stages before carrying out the SEM test will test the outer model and inner model. This outer model test uses composite reliability data, which measures a construct. Dimensions are reliable if they have a

it means that all question items for each variable are valid and reliable for further testing.

composite reliability value above 0.7, as follows.

Table 3 Composite reliability calculation results

Dimension	Composite Reliability	R-Square
Financial Behavior (X1)	0.884	-
Financial Literacy (X2)	0.834	-
Financial inclusion (Y)	0.863	0.780
Intellectual Capital (Z)	0.939	0.208

The inner model is evaluated using R-Square for the dependent construct. The results of the calculations that have been carried out to find that the R-Square value for the influence of financial behavior and financial literacy

variables on financial inclusion is 0.780 or 78%, While the influence of financial behavior and financial inclusion variables through intellectual capital on financial inclusion is 0.208 or 20.8%.

Figure 5 Test results

Hypothesis testing is done by comparing the tcount value with the t-table value, if the tcount value is greater than t-table, then the relationship is significant between the variables and vice versa when t-count is less than t-table, then there is no significant relationship between the variables. The amount of data tested is 500, then the value of t table (α = 5%) got 1,964. The presentation is as follows.

Table 4 Influence between research variables

Hypothesis		Influence	t count	koef.path	Information
H1	Financial behavior →	Financial inclusion	2,913*	-0.691	Significant
H2	Financial literacy $ ightarrow$	Financial inclusion	4,272*	1.136	Significant

Н3	Financial behavio & Financial literacy		Intellectual capital	→	Financial inclusion	5,513*	0.416	Significant
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The test results shown in table 4 will then be presented and carried out with wetting and discussion with some of the previous literature. The explanation is as follows.

4.4. Discussions

Financial behavior has a positive and significant influence on financial inclusion with a CR value (t count > t table (2.913 >1,964) and a path coefficient of -0.691, this coefficient shows that there is a significant negative relationship between financial behavior and financial inclusion. The increasing public financial behavior in developing countries this will also suppress the level of financial inclusion. Conversely, when the financial behavior of people in developing countries is still low, the level of financial inclusion will be higher. This condition will certainly make it difficult for the country to prosper and prosper its people [13], [28]. This result also shows that the first hypothesis is not rejected.

Financial literacy has a positive and significant influence on financial inclusion with a CR value (t count > t table (4,272 > 1,964) and a path coefficient of 1,136, this coefficient shows that there is a significant positive relationship between financial literacy and financial inclusion. The better the level of public financial literacy, this

5. Conclusions

Data collection, calculation, testing and analysis of data that have been carried out found findings that financial behavior and financial literacy have a positive and significant influence on financial inclusion. These results prove that a person's behavior and intellectuality about finances plays a very important role in the difficulties of financial inclusion in developing countries. These two variables also depend on the level of public education that he takes. When a person has

will also increase inclusion finance [29]. These results also show that the second hypothesis is not rejected.

Intellectual capital can intervene strongly in the relationship between financial behavior and financial literacy on financial inclusion with a CR value (t count > t table (5.513 > 1.996) and a path coefficient of 0.416, this coefficient shows that there is a significant positive relationship between financial behavior and financial literacy with financial inclusion. These results also show that a person's intellectual capital ability regarding financial behavior and financial literacy can grow access to finance for the community, so that financial inclusion can be reduced [2]. This result also shows that the third hypothesis is not rejected.

The findings of this research are certainly different from several previous studies [1], [3], [31]–[33], [6], [8], [9], [13], [16], [27], [28], [30]. This difference is not only a research gap, but leads to a recent finding on the development of a science between psychology, social science and finance that gave rise to the current concept of financial behavior.

received a proper education, then he will be smarter in behavior to maintain his financial ability [31], [32]. Of course, this finding contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries, through the concept of financial behavior.

We give great appreciation to the respondents for helping in obtaining

opinions and data for carrying out this research in the new normal period. We realize it is difficult to conduct research in the new normal because many parties keep their distance from each other for the sake of mutual health. This updated concept is still difficult to apply and translate into learning curricula for the unbaked community in developing countries today. This is because the differences in behavior and intellectuality of the unbanked people *References*:

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in each developing country are unique and not the same as Indonesia. There needs to be cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

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Contribution of Individual Authors to the Creation of a Scientific Article (Ghostwriting Policy)

Wahidahwati has carried out the simulation and the optimization.

Nur Fadjrih Asyik has implemented the Algorithm, organized and executed the experiments of all sections.

Nur Laily handled for the Statistics.

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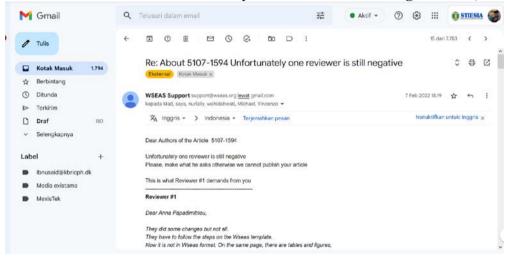
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7 Feb 2022 Komenter Reviwer

Re: About 5107-1594 Unfortunately one reviewer is still negative Sen, 7 Feb 2022 18.19



Dear Authors of the Article 5107-1594

Unfortunately one reviewer is still negative

Please, make what he asks otherwise we cannot publish your article

This is what Reviewer #1 demands from you

Reviewer #1

Dear Anna Papadimitriou,

They did some changes but not all.

They have to follow the steps on the Wseas template.

Now it is not in Wseas format. On the same page, there are tables and figures, the text between any of two continues in two columns, then after the figure or table they start the new two columns. They did not change the grammatical mistakes and they changed the font of references from Times New Roman to Arial. I think they did not follow the Wseas template and did not read our comments. They have to revise it.

Best regards,		
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Please, send me by email the re- re - revised version

Thanks

Anna Papadimitriou

On Fri, Feb 4, 2022 at 3:58 AM Mad Jaya < <u>mad.74ya@gmail.com</u>> wrote: Dear WSEAS (Professor Anna),

Thank you for your help and your response. First of all, I would like to apologize for not reading carefully the first notification given. I have reviewed and corrected total improvement from abstract to conclusions as you directed. I have also attached the final manuscript which has been completely revised. We hope this is appropriate and worthy of publication as soon as possible.

Sincerely Yours,

I Made Laut Mertha Jaya, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766 085655214988

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So, please, do all the changes that the Reviewer #1, #2, #3, but especially those of Reviewer #1 and send your re-revised paper only to me support@wseas.org
Thanks a lot

See what the Reviewer #1 is asking from you now

Reviewer's #1 email

Dear Anna Papadimitriou,

I hope this email finds you well.

I reviewed the paper, 5107-1594, the second time. The authors did not do all the changes.

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I only read 7 pages of the paper, I was very upset about seeing unchanged mistakes. If they do all changes and put the paper in Wseas format, it can be published.

Please find my comments below:

Abstract:

"The number of samples in this study were 500 respondents. The analysis method uses the Partial Least Square (PLS) method through the statistical test tool of the structural equation model (SEM) based on variance." Should be rewritten.

Main body, the paragraphs have to start without intend.

2nd page, left column:

"Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%."

Data are plural, it should be ...in 2016 show that.....

2nd page, left column:

"This condition shows that eCurrently, the government still needs support from other parties in order to be able to reduce the level of financial inclusion[1]. Herdjiono & Damanik (2016) stated that financial knowledge"

What is eCurrently?

A reference should be numbered, it is not numbered.

2nd page, left column:

"existing financial institutions.[14]." Remove the full stop before the reference number.

2nd page, left column:

"Behavioral finance describes how a person treats, manages, and uses the financial resources he has._Research conducted by Mien, Nguyen Thi Ngoc (2015) states that financial literacy and financial knowledge affect financial behavior.

"he has._" is unnecessary

2nd pager right column:

"possibilities (1) behavior is acquired from heredity in the form of biological instincts-then known as "nature" explanations and (2) behavior is not inherited but obtained from experience during life. they are known as "nurture" descriptions."

What does it mean ". they" in the above sentence?

3rd page left column:

The paragraph ends with "namely:". You should write them, you cannot continue the subsection without completing the sentence..

3rd page left -right columns:

"Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. **Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. [21]."**

The same sentence repeated three times. I wrote this in my first review, they did not change.

What does "Simply put, this theory explains that someone will do an action, when it is considered positive and other people will also do it." mean?

A reference cannot be referred in the text "According to [25], the keys to having a basic understanding of behavioral finance include:"

Page 4:

"Fig. 1: Aspects in Financial Behavior"

It is not Wseas format, It should be Fig. 1 Aspects in..... There should be space between Figure 1 and the paragraph

"Research conducted [4], [26] states that individual financial planning responsibilities need to..." Which research was conducted? And a reference cannot be referred to as [26] states that......

The full stop must be removed between sentence and the reference number.

"IFinancial inclusion will provide benefits to the community that will enable them to improve their..."

What does "IFinancial" mean?

What does "Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions." mean?

Page 5:

"So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are as follows: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree (1)[28]" should be rewritten.

Table 1 or other tables and figures should be in picture format, otherwise it cannot show meaningful results as in table 1. For example, the numbers of indicators cannot be seen.

Numbering references in the text: Please put space between the sentence and reference number.

"The results of the data analysis that have been carried out have found several things, including the following." Rewrite this.

Page 6: "The descriptive results of the characteristics of the respondents in this study used the number of male respondents as many as 175 people, less than the number of female respondents as many as 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years were 15 people. The educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees." Rewrite with simple and clear sentences.

Table 2: it should be in picture format, otherwise the words or the numbers cannot be read correctly.

Page 7:

"Based on Table 3 shows that all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6." remove "shows that"

.

If you have further questions, please let me know.

Best regards,

On Wed, Feb 2, 2022 at 5:33 AM WSEAS Support < support@wseas.org> wrote: Dear Professor ********

The revised version of the article 5107-1594 is attached Tell us if you agree to be published now or not and if the authors made the changes that you have asked.

We remind you that you were a reviewer of this article. See your comments below.

Deadline to reply and send us your decision: February 12, 2022

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Best Regards

Dr. Anna Papadimitriou WSEAS Managing Editor

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Paper ID: 5107-1594

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Have the authors published some papers recently in this area in the last 5 years? (Check with GoogleScholar): **YES**

Does the paper contribute to the body of knowledge?: Yes

Is the abstract thoroughly written? Does it represent the main text of the article?: **YES**

Is the organisation (logical flow, use of headings) outstanding?: **YES**

Is the subject matter presented in a comprehensive manner?: **NO**

Does the paper contain direction for future research and recommendations?: No.

Is the English language appropriate?: **NO**

Are the Sessions and their paragraphs well and clearly written? Which Sessions and which Paragraphs of this paper need extensions and clarifications? Please, specify: There are many grammatical errors. They should be corrected. Under table 2, they need to explain the abbreviated notations. Discussion: It says "The findings of this study are certainly different from several previous studies". They need to explain the differences

Which mathematical equations in the article need clarifications? Which Theorems need clarifications and extensions? Are the mathematical theorems accompanied by the proper numerical examples? Please, specify.: There is no mathematical equation need clarification. Results were presented in tables and figures.

For Experimental Work. Do you believe that these experiments were really held? With what Equipment? Where? Are they accompanied with Photos, Tables and other Documentation?: The survey technique was used. The results are presented with tables and figures.

For Articles in Biomedical, Financial and Social Sciences we demand strong and well-documented Statistics. Have the authors carried out and included the right Statistical tests like: t-text, Chi Square etc? Please, check.: Partial Least Square Method and structural equation model were used. They are right techniques.

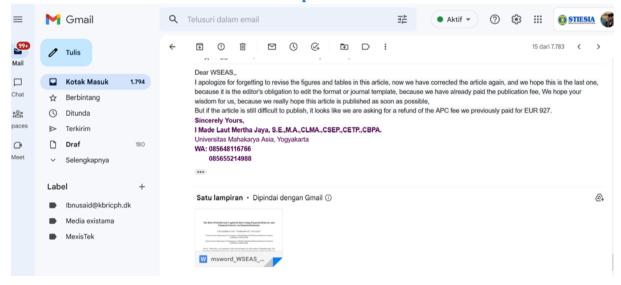
What Simulation / Statistics / Experiments / Experimental Analysis in the paper need extension and more clarifications? In which paragraphs?: **None**

Can you check if the Figures and Tables of the article are dully illustrated and presented inside the text? Are they connected with the main text of the article?: **Yes, they are presented the text. They are connected with the main article.**

Do the authors use abbreviations without the necessary explanations? If the authors use the abbreviation GOT, what GOT stands for?: Yes, except GDP which was defined after using the abbreviated form.

7 Feb 2022 20.35

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7 Feb 2022

Berkas Paper yang direvisi

The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

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Abstract: -Education is very important to reduce the percentage rate of the number of unbanked people. This research was conducted by focusing and convincing many people about the importance of financial behavior in reducing financial inclusion in developing countries, such as Indonesia. The number of samples are use 500 respondents. The analysis method uses the Partial Least Square (PLS) method and structural equation model (SEM) based on variance. This research found that financial behavior and financial literacy have a positive and significant influence on financial inclusion. Intellectual capital also detected capable of intervening a strong relationship between financial behavior and financial literacy on financial inclusion. This discovery contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries through the concept of financial behavior. There needs to cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

Key-Words: - economics, environmental management, financial literacy, intellectual capital. Received: May 31, 2019. Revised: May 4, 2020. Accepted: May 22, 2020. Published: May 29, 2020 (WSEAS will fill these dates in case of final acceptance, following strictly our data base and possible email communication).

1 Introduction

The financial inclusion movement is carried out to suppress and reduce the number of unbanked people around the world, one of which is in Indonesia [1]. The primary reason people are classified as unbanked is the level of education, so this condition also affects their knowledge [1]-[5]. Education is very important to reduce the percentage rate of the number of unbanked people. This statement is supported by some old literature that an educated and financially knowledgeable society can succeed in financial inclusion [1], [3], [6], [7]. Financial knowledge includes knowledge of basic financial concepts, such as the basis of compound interest, the difference between nominal value and real value, basic knowledge of risk diversification, time value, value of money, and others [8]-[10]. Some of the literature shows that knowledge through education (Intellectual capital) is very important to reduce financial inclusion today.

Various countries in the world have planned several ways to reduce financial exclusion using two approaches, namely comprehensively by formulating a national strategy such as Indonesia, Nigeria, Tanzania or through various separate programs, for example financial education as carried out by the United States government after the 2008 crisis. The approach through a national strategy includes 3 (three) aspects, namely the provision of service facilities, the provision of suitable products, responsible finance through financial education and consumer protection. Implementing financial inclusion is carried out in stages, starting with obvious targets such as thorough recipients of government social program help or migrant workers, before gradually being used by the public [11]. If we look at several financial inclusion indicators between developed and developing countries, it can be seen that account ownership in developed countries, such as Europe, the United States, and OECD countries is currently above 50% of the total population and is inversely proportional with developing countries, such as Africa, Latin America, Indonesia, and East Asia, which are still around 30 percent on average. Percentage of account ownership in developed countries is also directly proportional to the level of income per capita, which is above US\$20,000 on average. The higher the GDP per capita, the higher the percentage of account ownership in formal financial institutions. The lower the GDP per capita in developing countries, the lower the percentage of account ownership [12].

The comparison of financial access is also very different between developed and developing countries. In developed countries. only 8% of the population does not have access to finance, while in developing countries it still reaches 59% of the total population. To lend in developing countries, it is only between of 35% of Gross Domestic Product (GDP), while in Malaysia it has reached 100%. Meanwhile, in Indonesia, only 20% of the Indonesian population aged over 15 years has access to the financial sector. Only 2 million people or fewer than 1 percent of Indonesia's 230 million population can access the capital market. Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%. One factors causing the low level of financial knowledge is the geographical condition of Indonesia, which is around 60% in rural areas. This condition shows that, currently, the government still needs support from other parties in order to reduce the level of financial inclusion [1]. Financial knowledge theory has a close relationship with financial literacy because it can be taught and understood through financial education. The provision of financial education can also increase financial knowledge, and can reduce the occurrence of financial problems in the future, and increasing financial knowledge will also increase the ability of entrepreneurs to use financial services at existing financial institutions [13].

Someone who has good financial behavior, then he will be responsible for his finances by using money effectively and budgeting, saving money and controlling expenses, making investments, and paying debts on time [2]. Behavioral finance results from of putting expectations and values into action, expecting behavioral finance will mediate relationship of expectations to financial wellbeing [14]. Financial behavior emerged in the 1990s in line with the demands of the development of the business and academic world, which addressed behavioral aspects or elements in making financial and investment decisions. Behavioral finance describes how a person treats, manages, and uses the financial resources.

Financial knowledge, skills, and beliefs possessed by an individual affect his financial attitudes and behavior. An increase in one's knowledge can affect active participation in financial-related activities, as well as more positive financial behavior in an individual [3]. In addition, the relationship between behavior and a person's attitude is seen in his positive attitude for the long term, which is likely to show better financial behavior compared to someone who has financial attitudes and behavior in the short term. Financial literacy and financial inclusion are important things for the government to pay attention to. This is because financial literacy and financial inclusion impact on people's welfare [6], [15], [16]. The higher the financial literacy index and the financial inclusion index in Indonesia, the higher the level of community welfare. Therefore, this research was conducted by focusing and convincing many people about the importance of financial behavior and financial literacy for the succession of financial inclusion through the intellectual capital of the people in Indonesia.

This writing then discusses the grand theory used in understanding the flow of thought in writing this article. Then the next chapter will discuss the research methods used and the discussion of the test results. In the last section, the novelty of this research will be concluded, which can be used as a variety of new concepts in overcoming financial inclusion in developing countries, such as Indonesia.

2 Literature review

This sub-chapter will describe the grand theory that underlies this research, as well as

some literature that is used as a reference for preparing of this research hypothesis.

Early theories that can explain a person's behavior, focused on two possibilities (1) behavior is gained from heredity as biological instincts-then known as "nature" explanations and (2) behavior is not inherited but got from experience during life. The various alternatives that developed from the two approaches then gave rise to various perspectives in social psychology as a set of basic assumptions about the most important things that can be considered as something that can understand social behavior [17]. This study considers several grand theories that are appropriate for explaining the understanding of human, financial behavior, namely:

2.1. Field Theory

This theory examines social behavior through the concept of "field" or "space of life" - life space. This concept emphasizes that individual character (instincts and habits) is very independent from the influence of the situation in which the individual carries out activities in his life space (past, present, future). Living space contains all facts that can determine individual behavior. Living space includes everything that must understand the concrete behavior of individual humans in a certain psychological environment at a certain time. A person's behavior or movement will occur if there is sufficient force to push it. When the unbanked community gets a positive boost, financial inclusion will also decline, and vice versa [18]. Psychologically, a person's basic needs will arise because of the influence of the surrounding environment in which the person is located.

2.2. Theory of Reasoned Action

This theory is related to belief, attitude, intention and behavior [17]. Will is the best predictor of behavior, meaning that the best way to know what someone will do is to know that person's will. However, basically everyone will make judgments based on different reasons (not always based on will). An important concept in this theory is the focus of attention (salience), which is considering something that is important. Intention is determined by subjective attitudes and norms on specific attitudes towards something, a

person's behavior is not only influenced by attitudes but also by subjective norms, namely believes in ourselves about what other people want us to do and attitudes toward a behavior that is accompanied by subjective norms, thus forming an intention or intention to behave in a certain way. Intention or intention one function of two basic determinants: an individual's attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing that behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior.

Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions [19]. Simply put, this theory explains that someone will do an action when it is positive and other people will also do it.

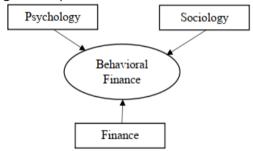
Behavioral finance is a new paradigm of a financial theory. This theory seeks to make it easier to understand and predict systematic financial markets [20]. This theory is implicated when someone makes psychological decisions. Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions. Psychology can also be referred to as money psychology. This is because there is evidence that psychological influences can bury the character of each individual as homo economics. economics is a term which states that humans

are economic creatures who aim to fulfill all their needs, including their desires [21], [22]. Homo economics theory only thinks rationally about all its actions, but it is not always under the reality in human life, especially to prioritize needs [22].

2.3. Financial Behavior and Financial Inclusion

Someone who has good financial behavior will be responsible for his finances by using money effectively by budgeting, saving money and controlling expenses, making investments, and paying debts on time. Behavioral finance result from putting expectations and values into action, expecting behavioral finance will mediate the

Figure 1 Aspects in Financial Behavior



Research conducted [4], [24] states that individual financial planning responsibilities need to be carried out as early as possible,

2.4. Financial Literacy and Financial Inclusion

Financial literacy is a basic need for everyone to avoid financial problems [1]. Financial difficulties can arise if there is an error in financial management (mismanagement). Having financial literacy is the most important thing to get a prosperous life [6]. With proper financial management supported by good financial literacy, the community's standard of living is expected to improve and increase. This is because even though a person's income level is high, without proper financial management, financial security will definitely be difficult to achieve.

The need for education to the public on financial products, both bank and non-bank, is very urgent so that the public is not easily relationship of expectations to financial well-being [14].

According to [23], the keys to having a basic understanding of behavioral finance include:

- g) Psychology is the scientific study of behavior and mental processes that are influenced by one's physical, mental and external environment.
- h) Sociology is a systematic study of behavior and social groups that focuses on the influence of social relations between people's attitudes and behavior.
- i) Finance is concerned with determining value and making decisions that function to allocate capital, including acquisitions, investments, and financial management.

Sources: Ricciardi, Victor & Simon (2008)

because financial management errors will be very detrimental and difficult to correct in the future.

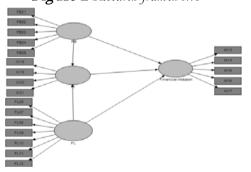
deceived by irresponsible parties. importance of financial literacy as all aspects of personal finance is not because it makes it difficult to use the money they have, but it is hoped that individuals can enjoy life by using financial resources thev have appropriately. Those who are literate will have many advantages. Statements submitted [11] show that financial literacy programs can be a cure for various diseases related to financial crises. Some of the positive sides for those who have high financial literacy include having skills in financial management, making financial decisions that apply to information and minimizing opportunities for making financial mistakes, having investments in the capital market, and being able to minimize and

overcome financial problems that arise. In the future, it will be beneficial for a prosperous, healthy and happy life.

2.5. Financial Behavior and Financial Literacy to reduce financial inclusion through intellectual capital

Intellectuals are abilities possessed by individuals from birth, so that intellectuals will develop to adapt to their environment and move by themselves to all changes in situations and conditions [3]. This person's ability is seen when he is doing activities. The activities that he does can show that the individual is mastered in a certain field and not, so that the intellectual development of this individual will adapt to the situations and conditions that exist around his environment [16]. For the ability to understand a certain concept, an individual needs a process, such as learning or training, over a certain period. This proves that an individual can receive learning when they practice and evaluate in a structured manner. Thus, this intellectual concept with financial inclusion assumes that when the government cooperative educational institutions conduct training or coaching for some people who are classified as unbanked, they will understand financial services until finally they are separated from the unbanked group [3]. Of

Figure 2 Research framework



3 Method

The research was conducted using quantitative methods. The data collection technique uses a questionnaire and literature study [26]. Thus, the data collected will be classified as secondary data. The population in this study are all Indonesian citizens who live in urban Surabaya and have the status of immigrants. The sampling method applied purposive sampling technique. The criteria used

course, this result can affect on the succession of financial inclusion programs from the government for a better future. Another opinion states that financial inclusion needs to be encouraged so that economic growth can grow [15]. Financial inclusion will provide benefits to the community that will enable them to improve their standard of living, especially for those who live in remote areas and in border areas [25]. Financial inclusion is an important element in supporting sped up economic growth. This action is carried out by optimizing the contribution of the financial sector and opening access to financial services as widely as possible to the public, especially also for business actors [4]. From the various theoretical explanations and opinions above, this research plans the following hypotheses.

H₁: Financial behavior is important to reduce financial inclusion

H₂: Financial literacy is important to reduce financial inclusion

H₃: Financial behavior and financial literacy are important in reducing financial inclusion through intellectual capital.

in determining the suitability of the sample in this study include:

- 11.Indonesian citizens who have migrated to urban Surabaya and have savings or loans at banks.
- 12.Indonesian citizens who have migrated to urban Surabaya with a minimum education of Senior High School and income.
- 13.Indonesian citizens who have migrated to urban Surabaya are at least 35 years old and married.

- 14.Indonesian citizens who have migrated to the city of Surabaya who have jobs.
- 15.Indonesian citizens who have migrated to the urban area of Surabaya, but whose place of residence is over 10 km (kilometers) from the city center.

So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree(1) [26].

Table 1 Operational Definition and Measurement of Variables

No.	Variable	Indicator			
1.	Financial Behavior (X1)	11) Create and record expense and expenditure budgets,			
		12) Provide funds for unexpected expenses,			
		13) The habit of saving once every month,			
		14) Perform price comparisons before making a purchase			
		15) Pay bills on time.			
2.	Financial Literacy (X2)	15) Economic transactions and the like			
		16) Economic resources			
		17) Shopping concept			
		18) Save concept			
		19) Tax			
		20) Financial crime			
		21) Beliefs regarding financial institutions, their products and			
		services [27].			
3.	Financial inclusion (Y)	9) Financial Knowledge			
		10) Financial Behavior			
		11)Financial Attitude			
		12)Future planning [1].			
4.	Intellectual Capital (Z)	9) Curiosity and motivation			
		10) Experience			
		11) Innovation and Creativity			
		12) Competency ability [3].			

The analytical method in this study uses the Partial Least Square (PLS) method through a variance-based structural equation model (SEM) statistical test tool. Data analysis of this research was carried out using Smart PLS and

4 Results and Discussions

4.1. Characteristics of Respondents

The descriptive results of the characteristics of the respondents in this study used the number of male respondents 175 people, less than the number of female respondents, 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years were 15 people. The educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract

applying verification analysis comprised three stages, namely measuring the outer model, evaluating the structural model (inner model), and testing the research hypothesis.

employees, and permanent employees. This condition causes the amount of income he gets to vary from IDR 2,500,000 - IDR 4,500,000 every month. The needs of life are high enough to make their consumption power is also high. This resulted in their ability to save only about 12.88% of the total income of respondents (unbaked people).

Figure 3 Gender respondents

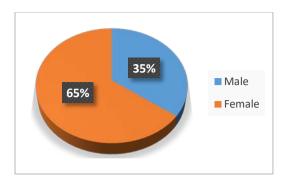
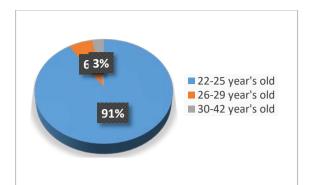


Figure 4 Respondent's age





4.2. Validity and Reliability Test

Table 2 Research Instrument Test Results

Variable	Items	Corre (r)	elation	Coefficient		
, minor	Tems	r	Status	Alpha	Status	
	FB01	0.410	valid			
	FB02	0.966	valid	-		
Financial Behavior	FB03	0.966	valid	0.816	reliable	
(X1)	FB04	0.965	valid	_		
	FB05	0.963	valid	=		
	FL06	0.543	valid			
Financial	FL07	0.918	valid	- 0.774	11 1 1	
Literacy (X2)	FL08	0.918	valid	-0.776	reliable	
	FL09	0.342	valid	_		

Based on Table 2, all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6. Thus, it

4.3. SEM (Structural Equation Model) Test

The stages before carrying out the SEM test will test the outer model and inner model. This outer model test uses composite reliability

	FL10	0.918	valid		
	FL11	0.918	valid	_	
	FL12	0.431	valid	_	
	IK13	0.762	valid		
Financial	IK14	0.737	valid	_	
inclusion	IK15	0.839	valid	0.792	reliable
(Y)	IK16	0.771	valid		
	IK17	0.631	valid	_	
Intellectual Capital (Z)	IC18	0.886	valid		
	IC19	0.896	valid	0.839	reliable
	IC20	0.896	valid	_	
	IC21	0.886	valid		

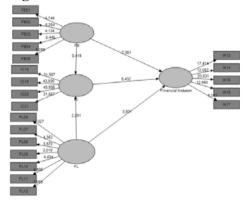
means that all question items for each variable are valid and reliable for further testing.

data, which measures a construct. Dimensions are reliable if they have a composite reliability value above 0.7, as follows.

Table 3 Composite reliability calculation results

Dimension	Composite Reliability	R-Square
Financial		
Behavior (X1)	0.884	-

The inner model is evaluated using R-Square for the dependent construct. The results of the calculations that have been carried out to find that the R-Square value for the influence of financial behavior and **Figure 5** Test results



Hypothesis testing is done by comparing the tcount value with the t-table value, if the tcount value is greater than t-table, then the

The test results shown in table 4 will then be presented and carried out with wetting and discussion with some of the previous literature. The explanation is as follows.

4.4. Discussions

Financial behavior has a positive and significant influence on financial inclusion with a CR value (t count > t table (2,913 > 1,964) and a path coefficient of -0.691, this coefficient shows that there is a significant negative relationship between financial behavior and financial inclusion. The increasing public financial behavior in developing countries this will also suppress the level of financial inclusion. Conversely, when the financial behavior of people in developing countries is still low, the level of financial inclusion will be higher. This condition will certainly make it difficult for the country to prosper and prosper its

Financial		-
Literacy (X2)	0.834	
Financial		0.780
inclusion (Y)	0.863	
Intellectual		0.208
Capital (Z)	0.939	

financial literacy variables on financial inclusion is 0.780 or 78%, While the influence of financial behavior and financial inclusion variables through intellectual capital on financial inclusion is 0.208 or 20.8%.

relationship is significant between the variables and vice versa when t-count is less than t-table, then there is no significant relationship between the variables. The amount of data tested is 500, then the value of t table (α = 5%) got 1,964. The presentation is as follows.

Table 4 Influence between research variables

Hypothesi s	Influence		t co	ount	•	Informatio n
Н1	Financia I behavio r	→ Financial inclusion	2,	,913*	-0.691	Significant
H2	Financial literacy	→ Financial inclusion	4,	,272*	1.136	Significant
нз	Financial behavior & Financial literacy	→ Intellectual capital	Financia →I inclusio 5, n	,513*	0.416	Significant

people [13], [28]. This result also shows that the first hypothesis is not rejected.

Financial literacy has a positive and significant influence on financial inclusion with a CR value (t count > t table (4,272 > 1,964) and a path coefficient of 1,136, this coefficient shows that there is a significant positive relationship between financial literacy and financial inclusion. The better the level of public financial literacy, this will also increase inclusion finance [29]. These results also show that the second hypothesis is not rejected.

Intellectual capital can intervene strongly in the relationship between financial behavior and financial literacy on financial inclusion with a CR value (t count > t table (5.513 > 1.996) and a path coefficient of 0.416, this coefficient shows that there is a significant positive relationship between financial behavior and financial literacy with financial inclusion. These results also show that a person's intellectual capital ability regarding financial behavior and financial literacy can grow access to finance for the community, so that financial inclusion can be reduced

5. Conclusions

Data collection, calculation, testing and analysis of data that have been carried out found findings that financial behavior and financial literacy have a positive and significant influence on financial inclusion. These results prove that а person's behavior and intellectuality about finances plays a very important role in the difficulties of financial inclusion in developing countries. These two variables also depend on the level of public education that he takes. When a person has received a proper education, then he will be smarter in behavior to maintain his financial ability [31], [32]. Of course, this finding contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries, through the concept of financial behavior.

We give great appreciation to the respondents for helping in obtaining opinions and data for carrying out this research in the new normal period. We *References:*

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[2]. This result also shows that the third hypothesis is not rejected.

The findings of this research are certainly different from several previous studies [1], [3], [31]–[33], [6], [8], [9], [13], [16], [27], [28], [30]. This difference is not only a research gap, but leads to a recent finding on the development of a science between psychology, social science and finance that gave rise to the current concept of financial behavior.

realize it is difficult to conduct research in the new normal because many parties keep their distance from each other for the sake of mutual health. This updated concept is still difficult to apply and translate into learning curricula for the community in developing countries today. This is because the differences in behavior and intellectuality of the unbanked people in each developing country are unique and not the same as Indonesia. There needs to be cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

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Berkas Paper perbaikan ke 2

The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

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Abstract: -Education is very important to reduce the percentage rate of the number of unbanked people. This research was conducted by focusing and convincing many people about the importance of financial behavior in reducing financial inclusion in developing countries, such as Indonesia. The number of samples are use 500 respondents. The analysis method uses the Partial Least Square (PLS) method and structural equation model (SEM) based on variance. This research found that financial behavior and financial literacy have a positive and significant influence on financial inclusion. Intellectual capital also detected capable of intervening a strong relationship between financial behavior and financial literacy on financial inclusion. This discovery contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries through the concept of financial behavior. There needs to cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

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1 Introduction

The financial inclusion movement is carried out to suppress and reduce the number of unbanked people around the world, one of which is in Indonesia [1]. The primary reason people are

classified as unbanked is the level of education, so this condition also affects their knowledge [1]–[5]. Education is very important to reduce the percentage rate of the number of unbanked people. This statement is supported by some old

literature that an educated and financially knowledgeable society can succeed in financial inclusion [1], [3], [6], [7]. Financial knowledge includes knowledge of basic financial concepts, such as the basis of compound interest, the difference between nominal value and real value, basic knowledge of risk diversification, time value, value of money, and others [8]–[10]. Some of the literature shows that knowledge through education (Intellectual capital) is very important to reduce financial inclusion today.

Various countries in the world have planned several ways to reduce financial exclusion using two approaches, namely comprehensively formulating a national strategy such as Indonesia, Nigeria, Tanzania or through various separate programs, for example financial education as carried out by the United States government after the 2008 crisis. The approach through a national strategy includes 3 (three) aspects, namely the provision of service facilities, the provision of suitable products, responsible finance through financial education and consumer protection. Implementing financial inclusion is carried out in stages, starting with obvious targets such as thorough recipients of government social program help or migrant workers, before gradually being used by the public [11]. If we look at several financial inclusion indicators between developed and developing countries, it can be seen that account ownership in developed countries, such as Europe, the United States, and OECD countries is currently above 50% of the total population and is inversely proportional with developing countries, such as Africa, Latin America, Indonesia, and East Asia, which are still around 30 percent on average. Percentage of account ownership in developed countries is also directly proportional to the level of income per capita, which is above US\$20,000 on average. The higher the GDP per capita, the higher the percentage of account ownership in formal financial institutions. The lower the GDP per capita in developing countries, the lower the percentage of account ownership [12].

The comparison of financial access is also very different between developed and developing countries. In developed countries, only 8% of the population does not have access to finance, while in developing countries it still reaches 59% of the total population. To lend in developing countries, it is only between of 35% of Gross Domestic Product (GDP), while in Malaysia it has reached 100%.

Meanwhile, in Indonesia, only 20% of the Indonesian population aged over 15 years has access to the financial sector. Only 2 million people or fewer than 1 percent of Indonesia's 230 million population can access the capital market. Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%. One factors causing the low level of financial knowledge is the geographical condition of Indonesia, which is around 60% in rural areas. This condition shows that, currently, the government still needs support from other parties in order to reduce the level of financial inclusion [1]. Financial knowledge theory has a close relationship with financial literacy because it can be taught and understood through financial education. The provision of financial education can also increase financial knowledge, and can reduce occurrence of financial problems in the future, and increasing financial knowledge will also increase the ability of entrepreneurs to use financial services at existing financial institutions [13].

Someone who has good financial behavior, then he will be responsible for his finances by using money effectively and budgeting, saving money and controlling expenses, making investments, and paying debts on time [2]. Behavioral finance results from of putting expectations and values into action, expecting behavioral finance will mediate the relationship of expectations to financial well-being [14]. Financial behavior emerged in the 1990s in line with the demands of the development of the business and academic world, which addressed behavioral aspects or elements in making financial and investment decisions. Behavioral finance describes how a person treats, manages, and uses the financial resources.

Financial knowledge, skills, and beliefs possessed by an individual affect his financial attitudes and behavior. An increase in one's knowledge can affect active participation in financial-related activities, as well as more positive financial behavior in an individual [3]. In addition, the relationship between behavior and a person's attitude is seen in his positive attitude for the long term, which is likely to show better financial behavior compared to someone who has financial attitudes and behavior in the short term. Financial literacy and financial inclusion are important things for the government to pay attention to. This is

because financial literacy and financial inclusion impact on people's welfare [6], [15], [16]. The higher the financial literacy index and the financial inclusion index in Indonesia, the higher the level of community welfare. Therefore, this research was conducted by focusing and convincing many people about the importance of financial behavior and financial literacy for the succession of financial inclusion through the intellectual capital of the people in Indonesia.

This writing then discusses the grand theory used in understanding the flow of thought in writing this article. Then the next chapter will discuss the research methods used and the discussion of the test results. In the last section, the novelty of this research will be concluded, which can be used as a variety of new concepts in overcoming financial inclusion in developing countries, such as Indonesia.

2 Literature review

This sub-chapter will describe the grand theory that underlies this research, as well as some literature that is used as a reference for preparing of this research hypothesis. Early theories that can explain a person's behavior, focused on two possibilities (1) behavior is gained from heredity as biological instincts-then known as "nature" explanations and (2) behavior is not inherited but got from experience during life. The various alternatives that developed from the two approaches then gave rise to various perspectives in social psychology as a set of basic assumptions about the most important things that can be considered as something that can understand social behavior [17]. This study considers several grand theories that are appropriate for explaining the understanding of human, financial behavior, namely:

2.1. Field Theory

This theory examines social behavior through the concept of "field" or "space of life" - life space. This concept emphasizes that individual character (instincts and habits) is very independent from the influence of the situation in which the individual carries out activities in his life space (past, present, future). Living space contains all facts that can determine individual behavior. Living space includes everything that must understand the concrete behavior of individual humans in a certain

psychological environment at a certain time. A person's behavior or movement will occur if there is sufficient force to push it. When the unbanked community gets a positive boost, financial inclusion will also decline, and vice versa [18]. Psychologically, a person's basic needs will arise because of the influence of the surrounding environment in which the person is located.

2.2. Theory of Reasoned Action

This theory is related to belief, attitude, intention and behavior [17]. Will is the best predictor of behavior, meaning that the best way to know what someone will do is to know that person's will. However, basically everyone will make judgments based on different reasons (not always based on will). An important concept in this theory is the focus of attention (salience), which is considering something that is important. Intention is determined by subjective attitudes and norms on specific attitudes towards something, a person's behavior is not only influenced by attitudes but also by subjective norms, namely believes in ourselves about what other people want us to do and attitudes toward a behavior that is accompanied by subjective norms, thus forming an intention or intention to behave in a certain way. Intention or intention one function of two basic determinants: an individual's attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing that behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior.

Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions [19].

Simply put, this theory explains that someone will do an action when it is positive and other people will also do it.

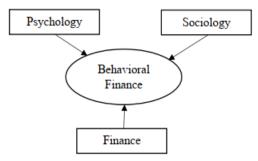
Behavioral finance is a new paradigm of a financial theory. This theory seeks to make it easier to understand and predict systematic financial markets [20]. This theory is implicated when someone makes psychological decisions. Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions. Psychology can also be referred to as money psychology. This is because there is evidence that psychological influences can bury the character of each individual as homo economics. Homo economics is a term which states that humans are economic creatures who aim to fulfill all their needs, including their desires [21], [22]. Homo economics theory only thinks rationally about all its actions, but it is not always under the reality in human life, especially to prioritize needs [22].

2.3. Financial Behavior and Financial Inclusion

Someone who has good financial behavior will be responsible for his finances by using money effectively by budgeting, saving money and controlling expenses, making investments, and paying debts on time. Behavioral finance result from putting expectations and values into action, expecting behavioral finance will mediate the relationship of expectations to financial well-being [14]. According to [23], the keys to having a basic understanding of behavioral finance include:

- j) Psychology is the scientific study of behavior and mental processes that are influenced by one's physical, mental and external environment.
- k) Sociology is a systematic study of behavior and social groups that focuses on the influence of social relations between people's attitudes and behavior.
- Finance is concerned with determining value and making decisions that function to allocate capital, including acquisitions, investments, and financial management.

Figure 1 Aspects in Financial Behavior



Sources: Ricciardi, Victor & Simon (2008)

Research conducted [4], [24] states that individual financial planning responsibilities need to be carried out as early as possible, because financial management errors will be very detrimental and difficult to correct in the future.

2.4. Financial Literacy and Financial Inclusion

Financial literacy is a basic need for everyone to avoid financial problems [1]. Financial difficulties can arise if there is an error in financial management (mismanagement). Having financial literacy is the most important thing to get a prosperous life [6]. With proper financial management supported by good financial literacy, the community's standard of living is expected to improve and increase. This is because even though a person's income level is high, without proper financial management, financial security will definitely be difficult to achieve.

The need for education to the public on financial products, both bank and non-bank, is very urgent so that the public is not easily deceived by irresponsible parties. The importance of financial literacy as all aspects of personal finance is not because it makes it difficult to use the money they have, but it is hoped that individuals can enjoy life by using the financial resources they have appropriately. Those who are literate will have many advantages. Statements submitted [11] show that financial literacy programs can be a cure for various diseases related to financial crises. Some of the positive sides for those who have high financial skills literacy include having in financial management, making financial decisions that apply to information and minimizing opportunities for making financial mistakes, having investments in the capital market, and being able to minimize and overcome financial problems that arise. In the future, it will be beneficial for a prosperous, healthy and happy life.

2.5. Financial Behavior and Financial Literacy to reduce financial inclusion through intellectual capital

Intellectuals are abilities possessed individuals from birth, so that intellectuals will develop to adapt to their environment and move by themselves to all changes in situations and conditions [3]. This person's ability is seen when he is doing activities. The activities that he does can show that the individual is mastered in a certain field and not, so that the intellectual development of this individual will adapt to the situations and conditions that exist around his environment [16]. For the ability to understand a certain concept, an individual needs a process, such as learning or training, over a certain period. This proves that an individual can receive learning when they practice and evaluate in a structured manner. Thus, this intellectual concept with financial inclusion assumes that when the government or cooperative educational institutions conduct training or coaching for some people who are classified as unbanked, they will understand financial services until finally they are separated from the unbanked group [3]. Of course, this result can affect on the succession of financial inclusion programs from the government for a better future. Another opinion states that financial inclusion needs to be encouraged so that economic growth can grow [15]. Financial inclusion will provide benefits to the

3 Method

The research was conducted using quantitative methods. The data collection technique uses a questionnaire and literature study [26]. Thus, the data collected will be classified as secondary data. The population in this study are all Indonesian citizens who live in urban Surabaya and have the status of immigrants. The sampling method applied purposive sampling technique. The criteria used in determining the suitability of the sample in this study include:

- 16.Indonesian citizens who have migrated to urban Surabaya and have savings or loans at banks.
- 17.Indonesian citizens who have migrated to urban Surabaya with a minimum education of Senior High School and income.
- 18.Indonesian citizens who have migrated to urban Surabaya are at least 35 years old and married.

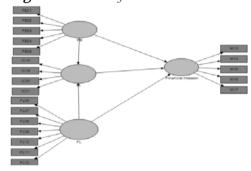
community that will enable them to improve their standard of living, especially for those who live in remote areas and in border areas [25]. Financial inclusion is an important element in supporting sped up economic growth. This action is carried out by optimizing the contribution of the financial sector and opening access to financial services as widely as possible to the public, especially also for business actors [4]. From the various theoretical explanations and opinions above, this research plans the following hypotheses.

 $\mathbf{H_1}$: Financial behavior is important to reduce financial inclusion

H₂: Financial literacy is important to reduce financial inclusion

 ${
m H_3}$: Financial behavior and financial literacy are important in reducing financial inclusion through intellectual capital.

Figure 2 Research framework



- 19.Indonesian citizens who have migrated to the city of Surabaya who have jobs.
- 20.Indonesian citizens who have migrated to the urban area of Surabaya, but whose place of residence is over 10 km (kilometers) from the city center.

So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree(1) [26].

Table 1 Operational Definition and Measurement of Variables

No.	Variable	Indicator		
1.	Financial	16)	Create	and
	Behavior (X1)		ord expens	
		expenditure budgets,		
		17)	Provide	funds
		for	unex	pected
		expenses,		

		18) The habit of		
		saving once every		
		month,		
		19) Perform price		
		comparisons before		
		making a purchase		
		20) Pay bills on		
		time.		
2.	Financial	22) Economic		
	Literacy (X2)	transactions and the		
		like		
		23) Economic		
		resources		
		24) Shopping		
		concept		
		25) Save concept26) Tax		
		27) Financial crime		
		28) Beliefs		
		regarding financial		
		institutions, their		
		products and services [27].		
3.	Financial	13) Financial Knowledge		
Э.	inclusion (Y)	14) Financial Behavior		
	iliciusion (1)	15) Financial Attitude		
		16) Future planning [1].		
4.	Intellectual	13) Curiosity and		
''	Capital (Z)	motivation		
		14) Experience		
		15) Innovation and		
		Creativity		
		16) Competency ability		
		[3].		
		[5].		

The analytical method in this study uses the Partial Least Square (PLS) method through a variance-based structural equation model (SEM) statistical test tool. Data analysis of this research was carried out using Smart PLS and applying verification analysis comprised three stages, namely measuring the outer model, evaluating the structural model (inner model), and testing the research hypothesis.

4 Results and Discussions

4.1. Characteristics of Respondents

The descriptive results of the characteristics of the respondents in this study used the number of male respondents 175 people, less than the number of female respondents, 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years were 15 people. The educational

background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees. This condition causes the amount of income he gets to vary from IDR 2,500,000 - IDR 4,500,000 every month. The needs of life are high enough to make their consumption power is also high. This resulted in their ability to save only about 12.88% of the total income of respondents (unbaked people).

Figure 3 Gender respondents

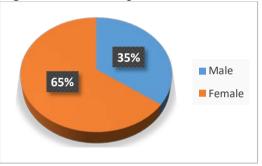
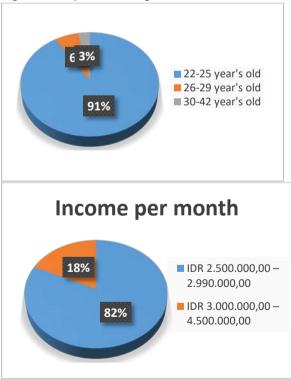


Figure 4 Respondent's age



4.2. Validity and Reliability Test Table 2 Research Instrument Test Results

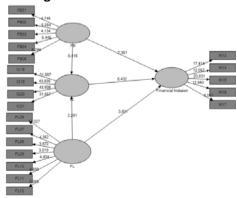
Variable Items $\frac{\text{Correlation}}{(\mathbf{r})}$ Coefficient

		r	Status	Alpha	Status
	FB01	0.410	valid		reliable
Financial	FB02	0.966	valid	_	
Behavior	FB03	0.966	valid	0.816	
(X1)	FB04	0.965	valid	_	
	FB05	0.963	valid	_	
	FL06	0.543	valid	_	
	FL07	0.918	valid	0.776	reliable
Financial	FL08	0.918	valid		
Literacy	FL09	0.342	valid		
(X2)	FL10	0.918	valid	_	
	FL11	0.918	valid	_	
	FL12	0.431	valid		
	IK13	0.762	valid	_	
Financial	IK14	0.737	valid	_	
inclusion	IK15	0.839	valid	0.792	reliable
(Y)	IK16	0.771	valid	_	
	IK17	0.631	valid		
	IC18	0.886	valid	_	
Intellectual	IC19	0.896	valid	-0.839	reliable
Capital (Z)	IC20	0.896	valid	_	
	IC21	0.886	valid		

Based on Table 2, all question items have a correlation value (r) greater than 0.3, while the

The inner model is evaluated using R-Square for the dependent construct. The results of the calculations that have been carried out to find that the R-Square value for the influence of financial behavior and financial literacy variables on financial inclusion is 0.780 or 78%, While the influence of financial behavior and financial inclusion variables through intellectual capital on financial inclusion is 0.208 or 20.8%.

Figure 5 Test results



alpha coefficient is greater than 0.6. Thus, it means that all question items for each variable are valid and reliable for further testing.

4.3. SEM (Structural Equation Model) Test

The stages before carrying out the SEM test will test the outer model and inner model. This outer model test uses composite reliability data, which measures a construct. Dimensions are reliable if they have a composite reliability value above 0.7, as follows.

Table 3 Composite reliability calculation results

Dimension	Composite Reliability	R-Square
Financial		
Behavior (X1)	0.884	-
Financial		-
Literacy (X2)	0.834	
Financial		0.780
inclusion (Y)	0.863	
Intellectual		0.208
Capital (Z)	0.939	

Hypothesis testing is done by comparing the t-count value with the t-table value, if the t-count value is greater than t-table, then the relationship is significant between the variables and vice versa when t-count is less than t-table, then there is no significant relationship between the variables. The amount of data tested is 500, then the value of t table (α = 5%) got 1,964. The presentation is as follows.

Table 4 Influence between research variables

Hypothesi s	Influence		t cou	ko nt h	ef.pat	Informatio n
Н1	Financia I behavio r	→ Financial inclusion	2,91	13* -0	.691	Significant
H2	Financial literacy	→ Financial inclusion	4,27	72* 1.:	136	Significant
нз	Financial behavior & Financial literacy	→ Intellectual capital	Financia J inclusio n	13* 0.4	416	Significant

The test results shown in table 4 will then be presented and carried out with wetting and discussion with some of the previous literature. The explanation is as follows.

4.4. Discussions

Financial behavior has a positive and significant influence on financial inclusion with a CR value (t count > t table (2,913 >1,964) and a path coefficient of -0.691, this coefficient shows that there is a significant negative relationship between financial behavior and financial inclusion. The increasing public financial behavior in developing countries this will also suppress the level of financial inclusion. Conversely, when the financial behavior of people in developing countries is still low, the level of financial inclusion will be higher. This condition will certainly make it difficult for the country to prosper and prosper its people [13], [28]. This result also shows that the first hypothesis is not rejected.

Financial literacy has a positive and significant influence on financial inclusion with a CR value (t count > t table (4,272 > 1,964) and a path coefficient of 1,136, this coefficient shows that there is a significant positive relationship between financial literacy and financial inclusion. The better the level of public financial literacy, this

will also increase inclusion finance [29]. These results also show that the second hypothesis is not rejected.

Intellectual capital can intervene strongly in the relationship between financial behavior and financial literacy on financial inclusion with a CR value (t count > t table (5.513 > 1.996) and a path coefficient of 0.416, this coefficient shows that there is a significant positive relationship between financial behavior and financial literacy with financial inclusion. These results also show that a person's intellectual capital ability regarding financial behavior and financial literacy can grow access to finance for the community, so that financial inclusion can be reduced [2]. This result also shows that the third hypothesis is not rejected.

The findings of this research are certainly different from several previous studies [1], [3], [31]–[33], [6], [8], [9], [13], [16], [27], [28], [30]. This difference is not only a research gap, but leads to a recent finding on the development of a science between psychology, social science and finance that gave rise to the current concept of financial behavior.

5. Conclusions

Data collection, calculation, testing and analysis of data that have been carried out found findings that financial behavior and financial literacy have a positive and significant influence on financial inclusion. These results prove that a person's behavior and intellectuality about finances plays a very important role in the difficulties of financial inclusion in developing countries. These two variables also depend on the level of public education that he takes. When a person has received a proper education, then he will be smarter in behavior to maintain his financial ability [31], [32]. Of course, this finding contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries, through the concept of financial behavior.

We give great appreciation to the respondents for helping in obtaining opinions and data for carrying out this research in the new normal period. We realize it is difficult to conduct research in the new normal because many parties keep their distance from each other for the sake of mutual health. This updated concept is still difficult to apply and translate into learning curricula for the unbaked community in developing countries today. This is because the differences in behavior and intellectuality of the unbanked people in each developing country are unique and not the same as Indonesia. There needs to be cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

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Contribution of Individual Authors to the Creation of a Scientific Article (Ghostwriting Policy)

Wahidahwati has carried out the simulation and the optimization.

Nur Fadjrih Asyik has implemented the Algorithm, organized and executed the experiments of all sections.

Nur Laily handled for the Statistics.

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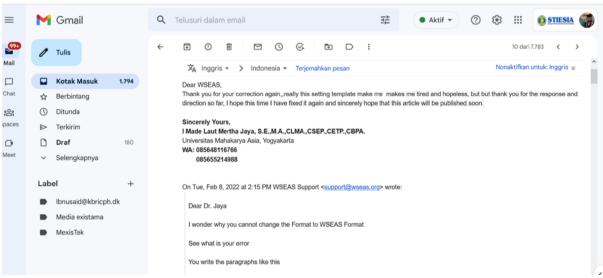
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8 Feb 2022 15.52

Revisi Paper 2 Re: 5107-1594 About 5107-1594



Dear WSEAS,

Thank you for your correction again,,really this setting template make me makes me tired and hopeless, but but thank you for the response and direction so far, I hope this time I have fixed it again and sincerely hope that this article will be published soon.

Sincerely Yours,

I Made Laut Mertha Jaya, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766

085655214988

On Tue, Feb 8, 2022 at 2:15 PM WSEAS Support <support@wseas.org> wrote:

Dear Dr. Jaya

I wonder why you cannot change the Format to WSEAS Format

See what is your error

You write the paragraphs like this

- 1 2
- 3 4

The correct is

- 1 3
- 2 4

i.e. the text in one page must be all the left column from the top to the bottom

Unfortunately, you do not follow the format

Arrange this and send me your paper back

Now the **only problem is the format After that we will publish it**

Best Regards

Maria Makrynaki

On Mon, Feb 7, 2022 at 3:35 PM Mad Jaya < mad.74ya@gmail.com > wrote: Dear WSEAS,,

I apologize for forgetting to revise the figures and tables in this article, now we have corrected the article again, and we hope this is the last one, because it is the editor's obligation to edit the format or journal template, because we have already paid the publication fee, We hope your wisdom for us, because we really hope this article is published as soon as possible,

But if the article is still difficult to publish, it looks like we are asking for a refund of the APC fee we previously paid for EUR 927.

Sincerely Yours,

I Made Laut Mertha Java, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766 085655214988 On Mon, Feb 7, 2022 at 6:19 PM WSEAS Support < support@wseas.org> wrote:

Dear Authors of the Article 5107-1594

Unfortunately one reviewer is still negative Please, make what he asks otherwise we cannot publish your article

This is what Reviewer #1 demands from you

Reviewer #1

Dear Anna Papadimitriou,

They did some changes but not all.

They have to follow the steps on the Wseas template.

Now it is not in Wseas format. On the same page, there are tables and figures, the text between any of two continues in two columns, then after the figure or table they start the new two columns. They did not change the grammatical mistakes and they changed the font of references from Times New Roman to Arial. I think they did not follow the Wseas template and did not read our comments. They have to revise it.

Best regards,
Reviewer #1

Please, send me by email the re- re - revised version

Thanks

Anna Papadimitriou

On Fri, Feb 4, 2022 at 3:58 AM Mad Jaya <<u>mad.74ya@gmail.com</u>> wrote: Dear WSEAS (Professor Anna),

Thank you for your help and your response. First of all, I would like to apologize for not reading carefully the first notification given. I have reviewed and corrected total improvement from abstract to conclusions as you directed. I have also attached the final manuscript which has been completely revised. We hope this is appropriate and worthy of publication as soon as possible.

Sincerely Yours,
I Made Laut Mertha Jaya, S.E.,M.A.,CLMA.,CSEP.,CETP.,CBPA.
Universitas Mahakarya Asia, Yogyakarta
WA: 085648116766
085655214988

On Thu, Feb 3, 2022 at 6:42 PM WSEAS Support < support@wseas.org > wrote:

Dear Authors of the Article 5107-1594

Unfortunately, we cannot publish the revised version now, because one Reviewer #1 has some objections.

Our Reviewer #1 believes that you did not do all the changes. There are many grammatical errors. It is not well WSEAS formatted etc. etc

So, please, do all the changes that the Reviewer #1, #2, #3, but especially those of Reviewer #1 and send your re-revised paper only to me support@wseas.org
Thanks a lot

See what the Reviewer #1 is asking from you now

Reviewer's #1 email

Dear Anna Papadimitriou,

I hope this email finds you well.

I reviewed the paper, 5107-1594, the second time. The authors did not do all the changes.

There are many grammatical errors. It is not well Wseas formatted.

I only read 7 pages of the paper, I was very upset about seeing unchanged mistakes. If they do all changes and put the paper in Wseas format, it can be published.

Please find my comments below:

Abstract:

"The number of samples in this study were 500 respondents. The analysis method uses the Partial Least Square (PLS) method through the statistical test tool of the structural equation model (SEM) based on variance." Should be rewritten.

Main body, the paragraphs have to start without intend.

2nd page, left column:

"Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%."

Data are plural, it should be ...in 2016 show that.....

2nd page, left column:

"This condition shows that eCurrently, the government still needs support from other parties in order to be able to reduce the level of financial inclusion[1]. Herdjiono & Damanik (2016) stated that financial knowledge"

What is eCurrently?

A reference should be numbered, it is not numbered.

2nd page, left column:

"existing financial institutions.[14]." Remove the full stop before the reference number.

2nd page, left column:

"Behavioral finance describes how a person treats, manages, and uses the financial resources he has._Research conducted by Mien, Nguyen Thi Ngoc (2015) states that financial literacy and financial knowledge affect financial behavior.

"he has._" is unnecessary

2nd pager right column:

"possibilities (1) behavior is acquired from heredity in the form of biological instincts-then known as "nature" explanations and (2) behavior is not inherited but obtained from experience during life. they are known as "nurture" descriptions."

What does it mean ". they" in the above sentence?

3rd page left column:

The paragraph ends with "namely:". You should write them, you cannot continue the subsection without completing the sentence..

3rd page left -right columns:

"Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. [21]."

The same sentence repeated three times. I wrote this in my first review, they did not change.

What does "Simply put, this theory explains that someone will do an action, when it is considered positive and other people will also do it." mean?

A reference cannot be referred in the text "According to [25], the keys to having a basic understanding of behavioral finance include:"

Page 4:

"Fig. 1: Aspects in Financial Behavior"

It is not Wseas format, It should be Fig. 1 Aspects in.....

There should be space between Figure 1 and the paragraph

"Research conducted [4], [26] states that individual financial planning responsibilities need to..." Which research was conducted? And a reference cannot be referred to as [26] states that......

The full stop must be removed between sentence and the reference number.

"IFinancial inclusion will provide benefits to the community that will enable them to improve their..."

What does "IFinancial" mean?

What does "Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions." mean?

Page 5:

"So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are as follows: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree (1)[28]" should be rewritten.

Table 1 or other tables and figures should be in picture format, otherwise it cannot show meaningful results as in table 1. For example, the numbers of indicators cannot be seen.

Numbering references in the text: Please put space between the sentence and reference number.

"The results of the data analysis that have been carried out have found several things, including the following." Rewrite this.

Page 6: "The descriptive results of the characteristics of the respondents in this study used the number of male respondents as many as 175 people, less than the number of female respondents as many as 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years were 15 people. The educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees." Rewrite with simple and clear sentences.

Table 2: it should be in picture format, otherwise the words or the numbers cannot be read correctly.

Page 7:

"Based on Table 3 shows that all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6." remove "shows that"

If you have further questions, please let me know. Best regards, ********

On Wed, Feb 2, 2022 at 5:33 AM WSEAS Support < support@wseas.org> wrote: Dear Professor ********

The revised version of the article 5107-1594 is attached Tell us if you agree to be published now or not and if the authors made the changes that you have asked.

We remind you that you were a reviewer of this article. See your comments below.

Deadline to reply and send us your decision: February 12, 2022

Reply by email to support@wseas.org

Best Regards

Dr. Anna Papadimitriou WSEAS Managing Editor

----- See your review here -----

Paper ID: 5107-1594

Title: The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

Can you check if this paper or part of this paper has been published elsewhere? Please, if yes, report what you have found by Turnitin or Ithenticate or simple Google search:

Comments and Remarks (minimum 500 characters): Title: of and in should be written in lower case letter. Abstract: it should be plain format, not italic. There are many grammatical errors. It is not formatted. It formatted in two columns, but the text continues in the second column if there is a table or new section. Title of the figures should be under the figure. Space necessary between the text and tables and figures. It can be published after a major review: Improve English, format the paper. References are not in the Wseas format, and not numbered in the text.

Have the authors published some papers recently in this area in the last 5 years? (Check with GoogleScholar): **YES**

Does the paper contribute to the body of knowledge?: Yes

Is the abstract thoroughly written? Does it represent the main text of the article?: YES

Is the organisation (logical flow, use of headings) outstanding?: YES

Is the subject matter presented in a comprehensive manner?: NO

Does the paper contain direction for future research and recommendations?: No.

Is the English language appropriate?: NO

Are the Sessions and their paragraphs well and clearly written? Which Sessions and which Paragraphs of this paper need extensions and clarifications? Please, specify: There are many grammatical errors. They should be corrected. Under table 2, they need to explain the abbreviated notations. Discussion: It says "The findings of this study are certainly different from several previous studies". They need to explain the differences

Which mathematical equations in the article need clarifications? Which Theorems need clarifications and extensions? Are the mathematical theorems accompanied by the proper numerical examples? Please, specify.: There is no mathematical equation need clarification. Results were presented in tables and figures.

For Experimental Work. Do you believe that these experiments were really held? With what Equipment? Where? Are they accompanied with Photos, Tables and other Documentation?: The survey technique was used. The results are presented with tables and figures.

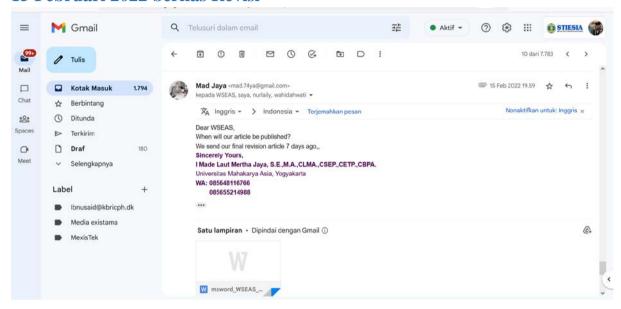
For Articles in Biomedical, Financial and Social Sciences we demand strong and well-documented Statistics. Have the authors carried out and included the right Statistical tests like: t-text, Chi Square etc? Please, check.: Partial Least Square Method and structural equation model were used. They are right techniques.

What Simulation / Statistics / Experiments / Experimental Analysis in the paper need extension and more clarifications? In which paragraphs?: **None**

Can you check if the Figures and Tables of the article are dully illustrated and presented inside the text? Are they connected with the main text of the article?: **Yes, they are presented the text. They are connected with the main article.**

Do the authors use abbreviations without the necessary explanations? If the authors use the abbreviation GOT, what GOT stands for?: Yes, except GDP which was defined after using the abbreviated form.

15 Februari 2022 berkas Revisi



Dear WSEAS,

When will our article be published?

We send our final revision article 7 days ago,,

Sincerely Yours,

I Made Laut Mertha Java, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

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15 February 2022 Revisi berkas

The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

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Abstract: -Education is very important to reduce the percentage rate of the number of unbanked people. This research was conducted by focusing and convincing many people about the importance of financial behavior in reducing financial inclusion in developing countries, such as Indonesia. The

number of samples are use 500 respondents. The analysis method uses the Partial Least Square (PLS) method and structural equation model (SEM) based on variance. This research found that financial behavior and financial literacy have a positive and significant influence on financial inclusion. Intellectual capital also detected capable of intervening a strong relationship between financial behavior and financial literacy on financial inclusion. This discovery contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries through the concept of financial behavior. There needs to cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

Key-Words: - economics, environmental management, financial literacy, intellectual capital. Received: May 31, 2019. Revised: May 4, 2020. Accepted: May 22, 2020. Published: May 29, 2020 (WSEAS will fill these dates in case of final acceptance, following strictly our data base and possible email communication).

1 Introduction

The financial inclusion movement is carried out to suppress and reduce the number of unbanked people around the world, one of which is in Indonesia [1]. The primary reason people are classified as unbanked is the level of education, so this condition also affects their knowledge [1]-[5]. Education is very important to reduce the percentage rate of the number of unbanked people. This statement is supported by some old literature that an educated and financially knowledgeable society can succeed in financial inclusion [1], [3], [6], [7]. Financial knowledge includes knowledge of basic financial concepts, such as the basis of compound interest, the difference between nominal value and real value, basic knowledge of risk diversification, time value, value of money, and others [8]-[10]. Some of the literature shows that knowledge through education (Intellectual capital) is very important to reduce financial inclusion today.

Various countries in the world have planned several ways to reduce financial exclusion using two approaches, namely comprehensively formulating a national strategy such as Indonesia, Nigeria, Tanzania or through various separate programs, for example financial education as carried out by the United States government after the 2008 crisis. The approach through a national strategy includes 3 (three) aspects, namely the provision of service facilities, the provision of suitable products, responsible finance through financial education and consumer protection. Implementing financial inclusion is carried out in stages, starting with obvious targets such as thorough recipients of government social program help or migrant workers, before gradually being used by the public [11]. If we look at several financial inclusion indicators between developed and developing countries, it can be seen that account ownership in developed countries, such as Europe, the United States, and OECD countries is currently above 50% of the total population and is inversely proportional with developing countries, such as Africa, Latin America, Indonesia, and East Asia, which are still around 30 percent on average. Percentage of account ownership in developed countries is also directly proportional to the level of income per capita, which is above US\$20,000 on average. The higher the GDP per capita, the higher the percentage of account ownership in formal financial institutions. The lower the GDP per capita in developing countries, the lower the percentage of account ownership [12].

The comparison of financial access is also very different between developed and developing countries. In developed countries, only 8% of the population does not have access to finance, while in developing countries it still reaches 59% of the total population. To lend in developing countries, it is only between of 35% of Gross Domestic Product (GDP), while in Malaysia it has reached 100%. Meanwhile, in Indonesia, only 20% of the Indonesian population aged over 15 years has access to the financial sector. Only 2 million people or fewer than 1 percent of Indonesia's 230 million population can access the capital market. Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand

reached 73% and Singapore reached 98%. One factors causing the low level of financial knowledge is the geographical condition of Indonesia, which is around 60% in rural areas. This condition shows that, currently, the government still needs support from other parties in order to reduce the level of financial inclusion [1]. Financial knowledge theory has a close relationship with financial literacy because it can be taught and understood through financial education. The provision of financial education can also increase knowledge, and can reduce the occurrence of financial problems in the future, and increasing financial knowledge will also increase the ability of entrepreneurs to use financial services at existing financial institutions [13].

Someone who has good financial behavior, then he will be responsible for his finances by using money effectively and budgeting, saving money and controlling expenses, making investments, and paying debts on time [2]. Behavioral finance results from of putting expectations and values into action, expecting behavioral finance will mediate the relationship of expectations to financial well-being [14]. Financial behavior emerged in the 1990s in line with the demands of the development of the business and academic world, which addressed behavioral aspects or elements in making financial and investment decisions. Behavioral finance describes how a person treats, manages, and uses the financial resources.

Financial knowledge, skills, and beliefs possessed by an individual affect his financial attitudes and behavior. An increase in one's knowledge can affect active participation in financial-related activities, as well as more positive financial behavior in an individual [3]. In addition, the relationship between behavior and a person's attitude is seen in his positive attitude for the long term, which is likely to show better financial behavior compared to someone who has financial attitudes and behavior in the short term. Financial literacy and financial inclusion are important things for the government to pay attention to. This is because financial literacy and financial inclusion impact on people's welfare [6], [15], [16]. The higher the financial literacy index and the financial inclusion index in Indonesia, the higher the level of community welfare. Therefore, this research was conducted by focusing and convincing many people about the importance of financial behavior and financial literacy for the succession of financial

inclusion through the intellectual capital of the people in Indonesia.

This writing then discusses the grand theory used in understanding the flow of thought in writing this article. Then the next chapter will discuss the research methods used and the discussion of the test results. In the last section, the novelty of this research will be concluded, which can be used as a variety of new concepts in overcoming financial inclusion in developing countries, such as Indonesia.

2 Literature review

This sub-chapter will describe the grand theory that underlies this research, as well as some literature that is used as a reference for preparing of this research hypothesis. Early theories that can explain a person's behavior, focused on two possibilities (1) behavior is gained from heredity as biological instincts-then known as "nature" explanations and (2) behavior is not inherited but got from experience during life. The various alternatives that developed from the two approaches then gave rise to various perspectives in social psychology as a set of basic assumptions about the most important things that can be considered as something that can understand social behavior [17]. This study considers several grand theories that are appropriate for explaining the understanding of human, financial behavior, namely:

2.1. Field Theory

This theory examines social behavior through the concept of "field" or "space of life" - life space. This concept emphasizes that individual character (instincts and habits) is very independent from the influence of the situation in which the individual carries out activities in his life space (past, present, future). Living space contains all facts that can determine individual behavior. Living space includes everything that must understand the concrete behavior of individual humans in a certain psychological environment at a certain time. A person's behavior or movement will occur if there is sufficient force to push it. When the unbanked community gets a positive boost, financial inclusion decline, and vice also Psychologically, a person's basic needs will arise because of the influence of the surrounding environment in which the person is located.

2.2. Theory of Reasoned Action

This theory is related to belief, attitude, intention and behavior [17]. Will is the best predictor of behavior, meaning that the best way to know what someone will do is to know that person's will. However, basically everyone will make judgments based on different reasons (not always based on will). An important concept in this theory is the focus of attention (salience), which is considering something that is important. Intention is determined by subjective attitudes and norms on specific attitudes towards something, a person's behavior is not only influenced by attitudes but also by subjective norms, namely believes in ourselves about what other people want us to do and attitudes toward a behavior that is accompanied by subjective norms, thus forming an intention or intention to behave in a certain way. Intention or intention one function of two basic determinants: an individual's attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing that behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior.

Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions [19]. Simply put, this theory explains that someone will do an action when it is positive and other people will also do it.

Behavioral finance is a new paradigm of a financial theory. This theory seeks to make it easier to understand and predict systematic financial markets [20]. This theory is implicated when someone makes psychological decisions. Simply

put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions. Psychology can also be referred to as money psychology. This is because there is evidence that psychological influences can bury the character of each individual as homo economics. Homo economics is a term which states that humans are economic creatures who aim to fulfill all their needs, including their desires [21], [22]. Homo economics theory only thinks rationally about all its actions, but it is not always under the reality in human life, especially to prioritize needs [22].

2.3. Financial Behavior and Financial Inclusion

Someone who has good financial behavior will be responsible for his finances by using money effectively by budgeting, saving money and controlling expenses, making investments, and paying debts on time. Behavioral finance result from putting expectations and values into action, expecting behavioral finance will mediate the relationship of expectations to financial well-being [14]. According to [23], the keys to having a basic understanding of behavioral finance include:

- m) Psychology is the scientific study of behavior and mental processes that are influenced by one's physical, mental and external environment.
- Sociology is a systematic study of behavior and social groups that focuses on the influence of social relations between people's attitudes and behavior.
- Finance is concerned with determining value and making decisions that function to allocate capital, including acquisitions, investments, and financial management.

Psychology Sociology

Behavioral Finance

Finance

Figure 1 Aspects in Financial Behavior

Sources: Ricciardi, Victor & Simon (2008)

Research conducted [4], [24] states that individual financial planning responsibilities need to be carried out as early as possible, because financial management errors will be very detrimental and difficult to correct in the future.

2.4. Financial Literacy and Financial Inclusion

Financial literacy is a basic need for everyone to avoid financial problems [1]. Financial difficulties can arise if there is an error in financial management (mismanagement). Having financial literacy is the most important thing to get a prosperous life [6]. With proper financial management supported by good financial literacy, the community's standard of living is expected to improve and increase. This is because even though a person's income level is high, without proper financial management, financial security will definitely be difficult to achieve.

The need for education to the public on financial products, both bank and non-bank, is very urgent so that the public is not easily deceived by irresponsible parties. The importance of financial literacy as all aspects of personal finance is not because it makes it difficult to use the money they have, but it is hoped that individuals can enjoy life by using the financial resources they have appropriately. Those who are literate will have many advantages. Statements submitted [11] show that financial literacy programs can be a cure for various diseases related to financial crises. Some of the positive sides for those who have high financial literacy include having skills in management, making financial decisions that apply to information and minimizing opportunities for making financial mistakes, having investments in the capital market, and being able to minimize and overcome financial problems that arise. In the future, it will be beneficial for a prosperous, healthy and happy life.

2.5. Financial Behavior and Financial Literacy to reduce financial inclusion through intellectual capital

Intellectuals are abilities possessed by individuals from birth, so that intellectuals will develop to adapt to their environment and move by themselves to all changes in situations and conditions [3]. This person's ability is seen when he is doing activities. The activities that he does can show that the individual is mastered in a certain field and not, so that the intellectual development of this individual will adapt to the situations and

3 Method

The research was conducted using quantitative methods. The data collection

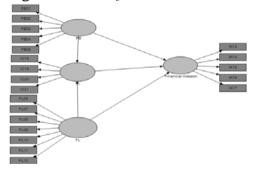
conditions that exist around his environment [16]. For the ability to understand a certain concept, an individual needs a process, such as learning or training, over a certain period. This proves that an individual can receive learning when they practice and evaluate in a structured manner. Thus, this intellectual concept with financial inclusion assumes that when the government or cooperative educational institutions conduct training or coaching for some people who are classified as unbanked, they will understand financial services until finally they are separated from the unbanked group [3]. Of course, this result can affect on the succession of financial inclusion programs from the government for a better future. Another opinion states that financial inclusion needs to be encouraged so that economic growth can grow [15]. Financial inclusion will provide benefits to the community that will enable them to improve their standard of living, especially for those who live in remote areas and in border areas [25]. Financial inclusion is an important element in supporting sped up economic growth. This action is carried out by optimizing the contribution of the financial sector and opening access to financial services as widely as possible to the public, especially also for business actors [4]. From the various theoretical explanations and opinions above, this research plans the following hypotheses.

H₁: Financial behavior is important to reduce financial inclusion

H₂: Financial literacy is important to reduce financial inclusion

H₃: Financial behavior and financial literacy are important in reducing financial inclusion through intellectual capital.

Figure 2 Research framework



technique uses a questionnaire and literature study [26]. Thus, the data collected will be classified as secondary data. The population in this study are all Indonesian citizens who live in urban Surabaya and have the status of immigrants. The sampling method applied purposive sampling technique. The criteria used in determining the suitability of the sample in this study include:

- 21.Indonesian citizens who have migrated to urban Surabaya and have savings or loans at banks.
- 22.Indonesian citizens who have migrated to urban Surabaya with a minimum education of Senior High School and income.
- 23.Indonesian citizens who have migrated to urban Surabaya are at least 35 years old and married.
- 24.Indonesian citizens who have migrated to the city of Surabaya who have jobs.
- 25.Indonesian citizens who have migrated to the urban area of Surabaya, but whose place of residence is over 10 km (kilometers) from the city center.

So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree(1) [26].

Table 1 Operational Definition and Measurement of Variables

No.	Variable	Indicator		
1.	Financial	21) Create and		
	Behavior (X1)	record expense and		
		expenditure budgets,		
		22) Provide funds		
		for unexpected		
		expenses,		
		23) The habit of		
		saving once every		
		month,		
		24) Perform price		
		comparisons before		
		making a purchase		
		25) Pay bills on		
		time.		
2.	Financial	29) Economic		
	Literacy (X2)	transactions and the		
		like		
		30) Economic		
		resources		
		31) Shopping		
		concept		
		32) Save concept		
		33) Tax		
		34) Financial crime		

		35) Beliefs			
		regarding financial			
		institutions, their			
		products and services			
		[27].			
3.	Financial	17) Financial Knowledge			
	inclusion (Y)	18) Financial Behavior			
	` ,	19) Financial Attitude			
		20) Future planning [1].			
4.	Intellectual	17) Curiosity and			
	Capital (Z)	motivation			
		18) Experience			
		19) Innovation and			
		Creativity			
		20) Competency ability			
		[3].			

The analytical method in this study uses the Partial Least Square (PLS) method through a variance-based structural equation model (SEM) statistical test tool. Data analysis of this research was carried out using Smart PLS and applying verification analysis comprised three stages, namely measuring the outer model, evaluating the structural model (inner model), and testing the research hypothesis.

4 Results and Discussions

4.1. Characteristics of Respondents

descriptive results of the characteristics of the respondents in this study used the number of male respondents 175 people, less than the number of female respondents, 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years educational were 15 people. The background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees. This condition causes the amount of income he gets to vary from IDR 2,500,000 - IDR 4,500,000 every month. The needs of life are high enough to make their consumption power is also high. This resulted in their ability to save only about 12.88% of the total income of respondents (unbaked people).

Figure 3 Gender respondents

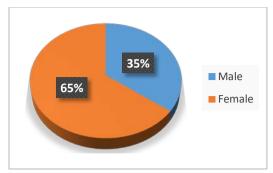
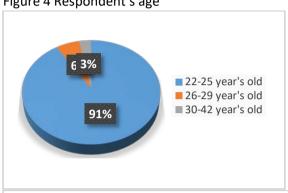


Figure 4 Respondent's age





4.2. Validity and Reliability Test

Table 2 Research Instrument Test Results

Variable	Items	Correlation (r)		Coefficient	
Variable	ittiis	r	Status	Alpha	Status
Financial Behavior (X1)	FB01	0.410	valid		
	FB02	0.966	valid	0.816	reliable
	FB03	0.966	valid	_	

The inner model is evaluated using R-Square for the dependent construct. The results of the calculations that have been carried out to find that the R-Square value for the influence of financial behavior and on financial financial literacy variables inclusion is 0.780 or 78%, While the influence of financial behavior and financial inclusion variables through intellectual capital on financial inclusion is 0.208 or 20.8%.

	FB04	0.965	valid		
	FB05	0.963	valid	_	
	FL06	0.543	valid		
	FL07	0.918	valid		
Financial	FL08	0.918	valid		
Literacy	FL09	0.342	valid	0.776	reliable
(X2)	FL10	0.918	valid		
	FL11	0.918	valid		
	FL12	0.431	valid		
	IK13	0.762	valid		
Financial	IK14	0.737	valid	<u> </u>	
inclusion	IK15	0.839	valid	0.792	reliable
(\mathbf{Y})	IK16	0.771	valid		
	IK17	0.631	valid		
	IC18	0.886	valid		
Intellectual	IC19	0.896	valid		reliable
Capital (Z)	IC20	0.896	valid	0.039	Tenable
	IC21	0.886	valid		

Based on Table 2, all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6. Thus, it means that all question items for each variable are valid and reliable for further testing.

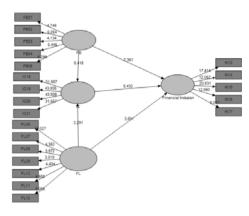
4.3. SEM (Structural Equation Model) Test

The stages before carrying out the SEM test will test the outer model and inner model. This outer model test uses composite reliability data, which measures a construct. Dimensions are reliable if they have a composite reliability value above 0.7, as follows.

Table 3 Composite reliability calculation results

Dimension	Composite Reliability	R-Square
Financial		
Behavior (X1)	0.884	-
Financial		-
Literacy (X2)	0.834	
Financial		0.780
inclusion (Y)	0.863	
Intellectual		0.208
Capital (Z)	0.939	

Figure 5 Test results



Hypothesis testing is done by comparing the t-count value with the t-table value, if the t-count value is greater than t-table, then the relationship is significant between the The test results shown in table 4 will then be presented and carried out with wetting and discussion with some of the previous literature. The explanation is as follows.

4.4. Discussions

Financial behavior has a positive and significant influence on financial inclusion with a CR value (t count > t table (2.913 >1,964) and a path coefficient of -0.691, this coefficient shows that there is a significant negative relationship between financial behavior and financial inclusion. The increasing public financial behavior in developing countries this will also suppress the level of financial inclusion. Conversely, when the financial behavior of people in developing countries is still low, the level of financial inclusion will be higher. This condition will certainly make it difficult for the country to prosper and prosper its people [13], [28]. This result also shows that the first hypothesis is not rejected.

Financial literacy has a positive and significant influence on financial inclusion with a CR value (t count > t table (4,272 > 1,964) and a path coefficient of 1,136, this coefficient shows that there is a significant positive relationship between financial literacy and financial inclusion. The better the level of public financial literacy, this

variables and vice versa when t-count is less than t-table, then there is no significant relationship between the variables. The amount of data tested is 500, then the value of t table (α = 5%) got 1,964. The presentation is as follows.

Table 4 Influence between research variables

Hypothesi s	Influence		t	count	•	Informatio n
H1	Financia I behavio r	→ Financial inclusion	2	2,913*	-0.691	Significant
H2	Financial literacy	→ Financial inclusion	4	4,272*	1.136	Significant
нз	Financial behavior & Financial literacy	→ Intellectual capital	Financia J inclusio n	5,513*	0.416	Significant

will also increase inclusion finance [29]. These results also show that the second hypothesis is not rejected.

Intellectual capital can intervene strongly in the relationship between financial behavior and financial literacy on financial inclusion with a CR value (t count > t table (5.513 > 1.996) and a path coefficient of 0.416, this coefficient shows that there is a significant positive relationship between financial behavior and financial literacy with financial inclusion. These results also show that a person's ability intellectual capital regarding financial behavior and financial literacy can grow access to finance for the community, so that financial inclusion can be reduced [2]. This result also shows that the third hypothesis is not rejected.

The findings of this research are certainly different from several previous studies [1], [3], [31]–[33], [6], [8], [9], [13], [16], [27], [28], [30]. This difference is not only a research gap, but leads to a recent finding on the development of a science between psychology, social science and finance that gave rise to the current concept of financial behavior.

5. Conclusions

Data collection, calculation, testing and analysis of data that have been carried out found findings that financial behavior and financial literacy have a positive and significant influence on financial inclusion. These results prove that a person's behavior and intellectuality about finances plays a very important role in the difficulties of financial inclusion in developing countries. These two variables also depend on the level of public education that he takes. When a person has received a proper education, then he will be smarter in behavior to maintain his financial ability [31], [32]. Of course, this finding contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries, through the concept of financial behavior.

We give great appreciation to the respondents for helping in obtaining opinions and data for carrying out this research in the new normal period. We realize it is difficult to conduct research in the new normal because many parties keep their distance from each other for the sake of mutual health. This updated concept is still difficult to apply and translate into learning curricula for the unbaked community in developing countries today. This is because the differences in behavior and intellectuality of the unbanked people in each developing country are unique and not the same as Indonesia. There needs to be cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

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Contribution of Individual Authors to the Creation of a Scientific Article (Ghostwriting Policy)

Wahidahwati has carried out the simulation and the optimization.

Nur Fadjrih Asyik has implemented the Algorithm, organized and executed the experiments of all sections.

Nur Laily handled for the Statistics.

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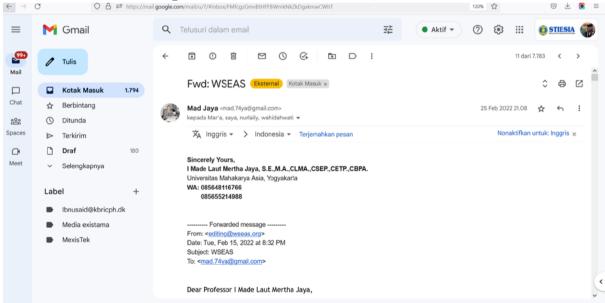
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Unfortunately, we cannot publish the revised version now, because one Reviewer #1 has some objections.

Our Reviewer #1 believes that you did not do all the changes. There are many grammatical errors. It is not well WSEAS formatted etc. etc

So, please, do all the changes that the Reviewer #1, #2, #3, but especially those of Reviewer #1 and send your re-revised paper only to me support@wseas.org
Thanks a lot

See what the Reviewer #1 is asking from you now

Reviewer's #1 email

Dear Anna Papadimitriou,

I hope this email finds you well.

I reviewed the paper, 5107-1594, the second time. The authors did not do all the changes. There are many grammatical errors. It is not well Wseas formatted.

I only read 7 pages of the paper, I was very upset about seeing unchanged mistakes. If they do all changes and put the paper in Wseas format, it can be published.

Please find my comments below:

Abstract:

"The number of samples in this study were 500 respondents. The analysis method uses the Partial Least Square (PLS) method through the statistical test tool of the structural equation model (SEM) based on variance." Should be rewritten.

Main body, the paragraphs have to start without intend.

2nd page, left column:

"Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%."

Data are plural, it should be ...in 2016 show that.....

2nd page, left column:

"This condition shows that eCurrently, the government still needs support from other parties in order to be able to reduce the level of financial inclusion[1]. Herdjiono & Damanik (2016) stated that financial knowledge"

What is eCurrently?

A reference should be numbered, it is not numbered.

2nd page, left column:

"existing financial institutions.[14]." Remove the full stop before the reference number.

2nd page, left column:

E-ISSN: 2224-2899 98 Volume 19, 2022

"Behavioral finance describes how a person treats, manages, and uses the financial resources he has._Research conducted by Mien, Nguyen Thi Ngoc (2015) states that financial literacy and financial knowledge affect financial behavior.

"he has._" is unnecessary

2nd pager right column:

"possibilities (1) behavior is acquired from heredity in the form of biological instincts-then known as "nature" explanations and (2) behavior is not inherited but obtained from experience during life. they are known as "nurture" descriptions."

What does it mean ". they" in the above sentence?

3rd page left column:

The paragraph ends with "namely:". You should write them, you cannot continue the subsection without completing the sentence..

3rd page left -right columns:

"Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. [21]."

The same sentence repeated three times. I wrote this in my first review, they did not change.

What does "Simply put, this theory explains that someone will do an action, when it is considered positive and other people will also do it." mean?

A reference cannot be referred in the text "According to [25], the keys to having a basic understanding of behavioral finance include:"

Page 4:

"Fig. 1: Aspects in Financial Behavior"

It is not Wseas format, It should be Fig. 1 Aspects in.....

There should be space between Figure 1 and the paragraph

"Research conducted [4], [26] states that individual financial planning responsibilities need to..." Which research was conducted? And a reference cannot be referred to as [26] states that......

The full stop must be removed between sentence and the reference number.

"IFinancial inclusion will provide benefits to the community that will enable them to improve their..."

What does "IFinancial" mean?

What does "Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions." mean?

E-ISSN: 2224-2899 99 Volume 19, 2022

Page 5:

"So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are as follows: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree (1)[28]" should be rewritten.

Table 1 or other tables and figures should be in picture format, otherwise it cannot show meaningful results as in table 1. For example, the numbers of indicators cannot be seen.

Numbering references in the text: Please put space between the sentence and reference number.

"The results of the data analysis that have been carried out have found several things, including the following." Rewrite this.

Page 6: "The descriptive results of the characteristics of the respondents in this study used the number of male respondents as many as 175 people, less than the number of female respondents as many as 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years were 15 people. The educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees." Rewrite with simple and clear sentences.

Table 2: it should be in picture format, otherwise the words or the numbers cannot be read correctly.

Page 7:

"Based on Table 3 shows that all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6." remove "shows that"

If you have further questions, please let me know. Best regards,

On Wed, Feb 2, 2022 at 5:33 AM WSEAS Support <<u>support@wseas.org</u>> wrote: Dear Professor *********

The revised version of the article 5107-1594 is attached Tell us if you agree to be published now or not and if the authors made the changes that you have asked.

We remind you that you were a reviewer of this article. See your comments below.

Deadline to reply and send us your decision: February 12, 2022

Reply by email to support@wseas.org

Best Regards

Dr. Anna Papadimitriou WSEAS Managing Editor

E-ISSN: 2224-2899 100 Volume 19, 2022

----- See your review here -----

Paper ID: 5107-1594

Title: The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

Can you check if this paper or part of this paper has been published elsewhere? Please, if yes, report what you have found by Turnitin or Ithenticate or simple Google search:

Comments and Remarks (minimum 500 characters): Title: of and in should be written in lower case letter. Abstract: it should be plain format, not italic. There are many grammatical errors. It is not formatted. It formatted in two columns, but the text continues in the second column if there is a table or new section. Title of the figures should be under the figure. Space necessary between the text and tables and figures. It can be published after a major review: Improve English, format the paper. References are not in the Wseas format, and not numbered in the text.

Have the authors published some papers recently in this area in the last 5 years? (Check with GoogleScholar): YES

Does the paper contribute to the body of knowledge?: Yes

Is the abstract thoroughly written? Does it represent the main text of the article?: YES

Is the organisation (logical flow, use of headings) outstanding?: YES

Is the subject matter presented in a comprehensive manner?: NO

Does the paper contain direction for future research and recommendations?: No.

Is the English language appropriate?: NO

Are the Sessions and their paragraphs well and clearly written? Which Sessions and which Paragraphs of this paper need extensions and clarifications? Please, specify: There are many grammatical errors. They should be corrected. Under table 2, they need to explain the abbreviated notations. Discussion: It says "The findings of this study are certainly different from several previous studies". They need to explain the differences

Which mathematical equations in the article need clarifications? Which Theorems need clarifications and extensions? Are the mathematical theorems accompanied by the proper numerical examples? Please, specify.: There is no mathematical equation need clarification. Results were presented in tables and figures.

For Experimental Work. Do you believe that these experiments were really held? With what Equipment? Where? Are they accompanied with Photos, Tables and other Documentation?: The survey technique was used. The results are presented with tables and figures.

For Articles in Biomedical, Financial and Social Sciences we demand strong and well-documented Statistics. Have the authors carried out and included the right Statistical tests

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like: t-text, Chi Square etc? Please, check.: Partial Least Square Method and structural equation model were used. They are right techniques.

What Simulation / Statistics / Experiments / Experimental Analysis in the paper need extension and more clarifications? In which paragraphs?: None

Can you check if the Figures and Tables of the article are dully illustrated and presented inside the text? Are they connected with the main text of the article?: Yes, they are presented the text. They are connected with the main article.

Do the authors use abbreviations without the necessary explanations? If the authors use the abbreviation GOT, what GOT stands for?: Yes, except GDP which was defined after using the abbreviated form.

From: "editing" <editing@wseas.org>

To: "Dr. Olga Nikolova" < support@wseas.org> Sent: Tuesday, February 15, 2022 3:25:56 PM

Subject: Re: Απάντησε

----- Forwarded message -----From: Mad Jaya <mad.74ya@gmail.com>

Date: Tue, Feb 15, 2022 at 2:59 PM Subject: Re: 5107-1594 About 5107-1594 To: WSEAS Support <<u>support@wseas.org</u>>

Cc: <<u>nurfadjrih@stiesia.ac.id</u>>, <<u>nurlaily@stiesia.ac.id</u>>, <<u>wahidahwati@stiesia.ac.id</u>>

Dear WSEAS,

When will our article be published?
We send our final revision article 7 days ago,,

Sincerely Yours,

I Made Laut Mertha Jaya, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766 085655214988

On Tue, Feb 15, 2022 at 7:55 PM Mad Jaya <mad.74ya@gmail.com> wrote:

Sincerely Yours,

I Made Laut Mertha Jaya, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766 085655214988

----- Forwarded message -----

From: Mad Jaya < mad.74ya@gmail.com > Date: Tue, Feb 8, 2022 at 3:52 PM

Subject: Re: 5107-1594 About 5107-1594

E-ISSN: 2224-2899 102 Volume 19, 2022

To: WSEAS Support <support@wseas.org>

Cc: <nurfadjrih@stiesia.ac.id>, <nurlaily@stiesia.ac.id>, <wahidahwati@stiesia.ac.id>

Dear WSEAS,

Thank you for your correction again, really this setting template make me makes me tired and hopeless, but but thank you for the response and direction so far, I hope this time I have fixed it again and sincerely hope that this article will be published soon.

Sincerely Yours, I Made Laut Mertha Jaya, S.E.,M.A.,CLMA.,CSEP.,CETP.,CBPA. Universitas Mahakarya Asia, Yogyakarta WA: 085648116766 085655214988

On Tue, Feb 8, 2022 at 2:15 PM WSEAS Support < support@wseas.org> wrote:

Dear Dr. Jaya

I wonder why you cannot change the Format to WSEAS Format

See what is your error

You write the paragraphs like this

1 2

3 4

The correct is

1 3

2 4

i.e. the text in one page must be all the left column from the top to the bottom

Unfortunately, you do not follow the format

Arrange this and send me your paper back

Now the only problem is the format After that we will publish it

Best Regards

Maria Makrynaki

On Mon, Feb 7, 2022 at 3:35 PM Mad Jaya < <u>mad.74ya@gmail.com</u>> wrote: Dear WSEAS,,

I apologize for forgetting to revise the figures and tables in this article, now we have corrected the article again, and we hope this is the last one, because it is the editor's obligation to edit the format or

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journal template, because we have already paid the publication fee, We hope your wisdom for us, because we really hope this article is published as soon as possible,

But if the article is still difficult to publish, it looks like we are asking for a refund of the APC fee we previously paid for EUR 927.

Sincerely Yours,

I Made Laut Mertha Jaya, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766 085655214988

On Mon, Feb 7, 2022 at 6:19 PM WSEAS Support <support@wseas.org> wrote:

Dear Authors of the Article 5107-1594

Unfortunately one reviewer is still negative Please, make what he asks otherwise we cannot publish your article

This is what Reviewer #1 demands from you

Reviewer #1

Dear Anna Papadimitriou,

They did some changes but not all.

They have to follow the steps on the Wseas template.

Now it is not in Wseas format. On the same page, there are tables and figures, the text between any of two continues in two columns, then after the figure or table they start the new two columns. They did not change the grammatical mistakes and they changed the font of references from Times New Roman to Arial. I think they did not follow the Wseas template and did not read our comments. They have to revise it.

Best regards, Reviewer #1	

Please, send me by email the re- re - revised version

Thanks

Anna Papadimitriou

On Fri, Feb 4, 2022 at 3:58 AM Mad Jaya < <u>mad.74ya@gmail.com</u>> wrote: Dear WSEAS (Professor Anna),,

Thank you for your help and your response. First of all, I would like to apologize for not reading carefully the first notification given. I have reviewed and corrected total improvement from abstract to conclusions as you directed. I have also attached the final manuscript which has been completely revised. We hope this is appropriate and worthy of publication as soon as possible.

Sincerely Yours,

E-ISSN: 2224-2899 104 Volume 19, 2022

I Made Laut Mertha Jaya, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766 085655214988

On Thu, Feb 3, 2022 at 6:42 PM WSEAS Support < support@wseas.org> wrote: Dear Authors of the Article 5107-1594

Unfortunately, we cannot publish the revised version now, because one Reviewer #1 has some objections.

Our Reviewer #1 believes that you did not do all the changes. There are many grammatical errors. It is not well WSEAS formatted etc. etc

So, please, do all the changes that the Reviewer #1, #2, #3, but especially those of Reviewer #1 and send your re-revised paper only to me support@wseas.org
Thanks a lot

See what the Reviewer #1 is asking from you now

Reviewer's #1 email

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I hope this email finds you well.

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E-ISSN: 2224-2899 105 Volume 19, 2022

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What does it mean ". they" in the above sentence?

3rd page left column:

The paragraph ends with "namely:". You should write them, you cannot continue the subsection without completing the sentence..

3rd page left -right columns:

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Page 5:

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Page 6: "The descriptive results of the characteristics of the respondents in this study used the number of male respondents as many as 175 people, less than the number of female respondents as many as 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years were 15 people. The educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees." Rewrite with simple and clear sentences.

Table 2: it should be in picture format, otherwise the words or the numbers cannot be read correctly.

Page 7:

"Based on Table 3 shows that all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6." remove "shows that"

If you have further questions, please let me know. Best regards,

On Wed, Feb 2, 2022 at 5:33 AM WSEAS Support < support@wseas.org> wrote: Dear Professor **********

The revised version of the article 5107-1594 is attached Tell us if you agree to be published now or not and if the authors made the changes that you have asked.

We remind you that you were a reviewer of this article. See your comments below.

Deadline to reply and send us your decision: February 12, 2022

Reply by email to support@wseas.org

Best Regards

Dr. Anna Papadimitriou WSEAS Managing Editor

E-ISSN: 2224-2899 107 Volume 19, 2022

----- See your review here -----

Paper ID: 5107-1594

Title: The Role Of Intellectual Capital In Intervening Financial Behavior and Financial Literacy on Financial Inclusion

Can you check if this paper or part of this paper has been published elsewhere? Please, if yes, report what you have found by Turnitin or Ithenticate or simple Google search:

Comments and Remarks (minimum 500 characters): Title: of and in should be written in lower case letter. Abstract: it should be plain format, not italic. There are many grammatical errors. It is not formatted. It formatted in two columns, but the text continues in the second column if there is a table or new section. Title of the figures should be under the figure. Space necessary between the text and tables and figures. It can be published after a major review: Improve English, format the paper. References are not in the Wseas format, and not numbered in the text.

Have the authors published some papers recently in this area in the last 5 years? (Check with GoogleScholar): YES

Does the paper contribute to the body of knowledge?: Yes

Is the abstract thoroughly written? Does it represent the main text of the article?: YES

Is the organisation (logical flow, use of headings) outstanding?: YES

Is the subject matter presented in a comprehensive manner?: NO

Does the paper contain direction for future research and recommendations?: No.

Is the English language appropriate?: NO

Are the Sessions and their paragraphs well and clearly written? Which Sessions and which Paragraphs of this paper need extensions and clarifications? Please, specify: There are many grammatical errors. They should be corrected. Under table 2, they need to explain the abbreviated notations. Discussion: It says "The findings of this study are certainly different from several previous studies". They need to explain the differences

Which mathematical equations in the article need clarifications? Which Theorems need clarifications and extensions? Are the mathematical theorems accompanied by the proper numerical examples? Please, specify.: There is no mathematical equation need clarification. Results were presented in tables and figures.

For Experimental Work. Do you believe that these experiments were really held? With what Equipment? Where? Are they accompanied with Photos, Tables and other Documentation?: The survey technique was used. The results are presented with tables and figures.

For Articles in Biomedical, Financial and Social Sciences we demand strong and well-documented Statistics. Have the authors carried out and included the right Statistical tests

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like: t-text, Chi Square etc? Please, check.: Partial Least Square Method and structural equation model were used. They are right techniques.

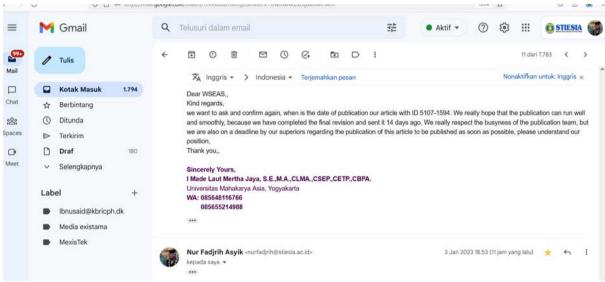
What Simulation / Statistics / Experiments / Experimental Analysis in the paper need extension and more clarifications? In which paragraphs?: None

Can you check if the Figures and Tables of the article are dully illustrated and presented inside the text? Are they connected with the main text of the article?: Yes, they are presented the text. They are connected with the main article.

Do the authors use abbreviations without the necessary explanations? If the authors use the abbreviation GOT, what GOT stands for?: Yes, except GDP which was defined after using the abbreviated form.

26 Feb 2022 19.34

Konfermasi Author ke WSEAS



Dear WSEAS,,

Kind regards,

we want to ask and confirm again, when is the date of publication our article with ID 5107-1594. We really hope that the publication can run well and smoothly, because we have completed the final revision and sent it 14 days ago. We really respect the busyness of the publication team, but we are also on a deadline by our superiors regarding the publication of this article to be published as soon as possible, please understand our position, Thank you,,

Sincerely Yours,

I Made Laut Mertha Jaya, S.E., M.A., CLMA., CSEP., CETP., CBPA.

Universitas Mahakarya Asia, Yogyakarta

WA: 085648116766 085655214988

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atau

WSEAS Transactions on Business and Economics, ISSN / E-ISSN: 1109-9526 / 2224-2899 URL scimago (SJR 2021 = 0,19) dan H-Index = 19:

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Impact Factor (IF): IF 2021-2022 = 0.901

https://academic-accelerator.com/Impact-of-Journal/WSEAS-Transactions-on-Business-and-Economics#:~:text=The%202021%2D2022%20Journal's%20Impact,is%20just%20updated%20in%202022

Berkas Jurnal Publish

The Role of Intellectual Capital in Intervening Financial Behavior and Financial Literacy on Financial Inclusion

NUR FADJRIH ASYIK^{1*}, WAHIDAHWATI², NUR LAILY³

1,2Senior Lecture, Department of Accounting, Sekolah Tinggi Ilmu Ekonomi Indonesia
Surabaya (STIESIA), INDONESIA

³Senior Lecture, Department of Management, Sekolah Tinggi Ilmu Ekonomi Indonesia Surabaya (STIESIA), INDONESIA

Abstract: -Education is very important to reduce the percentage rate of the number of unbanked people. This research was conducted by focusing and convincing many people about the importance of financial behavior in reducing financial inclusion in developing countries, such as Indonesia. The number of samples are use 500 respondents. The analysis method uses the Partial Least Square (PLS) method and structural equation model (SEM) based on variance. This research found that financial behavior and financial literacy have a positive and significant influence on financial inclusion. Intellectual capital also detected capable of intervening a strong relationship between financial behavior and financial literacy on financial inclusion. This discovery contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries through the concept of financial behavior. There needs to cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

Key-Words: - economics, environmental management, financial literacy, intellectual capital.

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Received: June 28, 2021. Revised: February 13, 2022. Accepted: February 27, 2022. Published: March 17, 2022.

1 Introduction

The financial inclusion movement is carried out to suppress and reduce the number of unbanked people around the world, one of which is in Indonesia [1]. The primary reason people are classified as unbanked is the level of education, so this condition also affects their knowledge [1]-[5]. Education is very important to reduce the percentage rate of the number of unbanked people. This statement is supported by some old literature that an educated and financially knowledgeable society can succeed in financial inclusion [1], [3], [6], [7]. Financial knowledge includes knowledge of basic financial concepts, such as the basis of compound interest, the difference between nominal value and real value, basic knowledge of risk diversification, time value, value of money, and others [8]-[10]. Some of the literature shows that knowledge through education (Intellectual capital) is very important to reduce financial inclusion today.

Various countries in the world have planned several ways to reduce financial exclusion using two approaches, namely comprehensively by formulating

a national strategy such as Indonesia, Nigeria, Tanzania or through various separate programs, for example financial education as carried out by the United States government after the 2008 crisis. The approach through a national strategy includes 3 (three) aspects, namely the provision of service facilities, the provision of suitable products, responsible finance through financial education and consumer protection. Implementing financial inclusion is carried out in stages, starting with obvious targets such as thorough recipients of government social program help or migrant workers, before gradually being used by the public [11]. If we look at several financial inclusion indicators between developed and developing countries, it can be seen that account ownership in developed countries, such as Europe, the United States, and OECD countries is currently above 50% of the total population and is inversely proportional with developing countries, such as Africa, Latin America, Indonesia, and East Asia, which are still around 30 percent on average. Percentage of account ownership in developed countries is also directly proportional to the level of

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income per capita, which is above US\$20,000 on average. The higher the GDP per capita, the higher the percentage of account ownership in formal financial institutions. The lower the GDP per capita in developing countries, the lower the percentage of account ownership [12].

The comparison of financial access is also very different between developed and developing countries. In developed countries, only 8% of the population does not have access to finance, while in developing countries it still reaches 59% of the total population. To lend in developing countries, it is only between of 35% of Gross Domestic Product (GDP), while in Malaysia it has reached 100%. Meanwhile, in Indonesia, only 20% of the Indonesian population aged over 15 years has access to the financial sector. Only 2 million people or fewer than 1 percent of Indonesia's 230 million population can access the capital market. Data from the Financial Services Authority in 2016 shows that the level of financial knowledge of the Indonesian people is still at 28% while Malaysia is 66%, Thailand reached 73% and Singapore reached 98%. One factors causing the low level of financial knowledge is the geographical condition of Indonesia, which is around 60% in rural areas. This condition shows that, currently, the government still needs support from other parties in order to reduce the level of financial inclusion [1]. Financial knowledge theory has a close relationship with financial literacy because it can be taught and understood through financial education. The provision of financial education can also increase financial knowledge, and can reduce the occurrence of financial problems in the future, and increasing financial knowledge will also increase the ability of entrepreneurs to use financial services at existing financial institutions [13].

Someone who has good financial behavior, then he will be responsible for his finances by using money effectively and budgeting, saving money and controlling expenses, making investments, and paying debts on time [2]. Behavioral finance results

from of putting expectations and values into action, expecting behavioral finance will mediate the relationship of expectations to financial wellbeing [14]. Financial behavior emerged in the 1990s in line with the demands of the development of the business and academic world, which addressed behavioral aspects or elements in making financial and investment decisions. Behavioral finance describes how a person treats, manages, and uses the financial resources.

Financial knowledge, skills, and beliefs possessed by an individual affect his financial attitudes and behavior. An increase in one's knowledge can affect active participation in financial-related activities, as well as more positive financial behavior in an individual [3]. In addition, the relationship between behavior and a person's attitude is seen in his positive attitude for the long term, which is likely to show better financial behavior compared to someone who has financial attitudes and behavior in the short term. Financial literacy and financial inclusion are important things for the government to pay attention to. This is because financial literacy and financial inclusion impact on people's welfare [6], [15], [16]. The higher the financial literacy index and the financial inclusion index in Indonesia, the higher the level of community welfare. Therefore, this research was conducted by focusing and convincing many people about the importance of financial behavior and financial literacy for the succession of financial inclusion through the intellectual capital of the people in Indonesia.

This writing then discusses the grand theory used in understanding the flow of thought in writing this article. Then the next chapter will discuss the research methods used and the discussion of the test results. In the last section, the novelty of this research will be concluded, which can be used as a variety of new concepts in overcoming financial inclusion in developing countries, such as Indonesia.

2 Literature Review

This sub-chapter will describe the grand theory that underlies this research, as well as some literature that is used as a reference for preparing of this research hypothesis. Early theories that can explain a person's behavior, focused on two possibilities (1) behavior is gained from heredity as biological instincts-then known as "nature" explanations and (2) behavior is not inherited but got from experience during life. The various alternatives that developed from the two approaches then gave rise to various perspectives in social psychology as a set of basic assumptions about the most important things that can be considered as something that can understand social behavior [17]. This study considers several grand theories that are appropriate for explaining the understanding of human, financial behavior, namely:

2.1 Field Theory

This theory examines social behavior through the concept of "field" or "space of life" - life space. This concept emphasizes that individual character (instincts and habits) is very independent from the influence of the situation in which the individual carries out activities in his life space (past, present, future). Living space contains all facts that can determine individual behavior. Living space includes everything that must understand the concrete behavior of individual humans in a certain psychological environment at a certain time. A person's behavior or movement will occur if there is sufficient force to push it. When the unbanked community gets a positive boost, financial inclusion will also decline, and vice versa [18].

Psychologically, a person's basic needs will arise because of the influence of the surrounding environment in which the person is located.

2.2 Theory of Reasoned Action

This theory is related to belief, attitude, intention and behavior [17]. Will is the best predictor of behavior, meaning that the best way to know what someone will do is to know that person's will. However, basically everyone will make judgments based on different reasons (not always based on will). An important concept in this theory is the focus of attention (salience), which is considering something that is important. Intention is determined by subjective attitudes and norms on specific attitudes towards something, a person's behavior is not only influenced by attitudes but also by subjective norms, namely believes in ourselves about what other people want us to do and attitudes toward a behavior that is accompanied by subjective norms, thus forming an intention or intention to behave in a certain way. Intention or intention one function of two basic determinants: an individual's attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing that behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior.

Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions. Individual attitude towards a behavior (personal aspect) and a person's perception of a social pressure in doing or not doing the behavior. Behavior is also influenced by a person's intentions, which are also influenced by the attitude carried out by that person, while his own attitude is influenced by beliefs about the opinions of others and the motivation to obey those opinions [19]. Simply put, this theory explains that someone will do an action when it is positive and other people will also do it.

Behavioral finance is a new paradigm of a financial theory. This theory seeks to make it easier to understand and predict systematic financial markets [20]. This theory is implicated when someone makes psychological decisions. Simply put, behavioral finance focuses on the concept of human behavior from the point of view of psychology that influences the individual's human decisions. Psychology can also be referred to as money psychology. This is because there is evidence that psychological influences can bury the character of each individual as homo economics. Homo economics is a term which states that humans are economic creatures who aim to fulfill all their needs, including their desires [21], [22]. Homo economics theory only thinks rationally about all its actions, but it is not always under the reality in human life, especially to prioritize needs [22].

2.3 Financial Behavior and Financial Inclusion

Someone who has good financial behavior will be responsible for his finances by using money effectively by budgeting, saving money and controlling expenses, making investments, and paying debts on time. Behavioral finance result from putting expectations and values into action, expecting behavioral finance will mediate the relationship of expectations to financial well-being [14]. According to [23], the keys to having a basic understanding of behavioral finance include:

- a) Psychology is the scientific study of behavior and mental processes that are influenced by one's physical, mental and external environment.
- Sociology is a systematic study of behavior and social groups that focuses on the influence of social relations between people's attitudes and behavior.
- c) Finance is concerned with determining value and making decisions that function to allocate capital, including acquisitions, investments, and financial management.

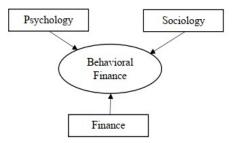


Fig. 1: Aspects in Financial Behavior

Sources: Ricciardi, Victor & Simon (2008)

Research conducted [4], [24] states that individual financial planning responsibilities need to be carried out as early as possible, because financial management errors will be very detrimental and difficult to correct in the future.

2.4 Financial Literacy and Financial Inclusion

Financial literacy is a basic need for everyone to avoid financial problems [1]. Financial difficulties can arise if there is an error in financial management (mismanagement). Having financial literacy is the most important thing to get a prosperous life [6]. With proper financial management supported by good financial literacy, the community's standard of living is expected to improve and increase. This is because even though a person's income level is high, without proper financial management, financial security will definitely be difficult to achieve.

The need for education to the public on financial products, both bank and non-bank, is very urgent so that the public is not easily deceived by irresponsible parties. The importance of financial literacy as all aspects of personal finance is not because it makes it difficult to use the money they have, but it is hoped that individuals can enjoy life by using the financial resources they have appropriately. Those who are literate will have many advantages. Statements submitted [11] show that financial literacy programs can be a cure for various diseases related to financial crises. Some of the positive sides for those who have high financial

literacy include having skills in financial management, making financial decisions that apply to information and minimizing opportunities for making financial mistakes, having investments in the capital market, and being able to minimize and overcome financial problems that arise. In the future, it will be beneficial for a prosperous, healthy and happy life.

2.5 Financial Behavior and Financial Literacy to Reduce Financial Inclusion through Intellectual Capital

Intellectuals are abilities possessed by individuals from birth, so that intellectuals will develop to adapt to their environment and move by themselves to all changes in situations and conditions [3]. This person's ability is seen when he is doing activities. The activities that he does can show that the individual is mastered in a certain field and not, so that the intellectual development of this individual will adapt to the situations and conditions that exist around his environment [16]. For the ability to understand a certain concept, an individual needs a process, such as learning or training, over a certain period. This proves that an individual can receive learning when they practice and evaluate in a structured manner. Thus, this intellectual concept with financial inclusion assumes that when the government or cooperative educational institutions conduct training or coaching for some people who are classified as unbanked, they will understand financial services until finally they are separated from the unbanked group [3]. Of course, this result can affect on the succession of financial inclusion programs from the government for a better future. Another opinion states that financial inclusion needs to be encouraged so that economic growth can grow [15]. Financial inclusion will provide benefits to the community that will enable them to improve their standard of living, especially for those who live in remote areas and in border areas [25]. Financial inclusion is an important element in supporting sped up economic growth. This action is carried out by optimizing the contribution of the financial sector and

opening access to financial services as widely as possible to the public, especially also for business actors [4]. From the various theoretical explanations and opinions above, this research plans the following hypotheses.

 \mathbf{H}_1 : Financial behavior is important to reduce financial inclusion

H₂: Financial literacy is important to reduce financial inclusion

 \mathbf{H}_3 : Financial behavior and financial literacy are important in reducing financial inclusion through intellectual capital.

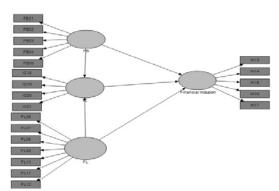


Fig. 2: Research framework

3 Method

The research was conducted using quantitative methods. The data collection technique uses a questionnaire and literature study [26]. Thus, the data collected will be classified as secondary data. The population in this study are all Indonesian citizens who live in urban Surabaya and have the status of immigrants. The sampling method applied purposive sampling technique. The criteria used in determining the suitability of the sample in this study include:

- 1. Indonesian citizens who have migrated to urban Surabaya and have savings or loans at banks.
- 2. Indonesian citizens who have migrated to urban Surabaya with a minimum education of Senior High School and income.

- 3. Indonesian citizens who have migrated to urban Surabaya are at least 35 years old and married.
- 4. Indonesian citizens who have migrated to the city of Surabaya who have jobs.
- Indonesian citizens who have migrated to the urban area of Surabaya, but whose place of residence is over 10 km (kilometers) from the city center.

So, based on the above criteria, the number of samples set in this study was 500 immigrants in Surabaya. Determination of the value of each answer using a Likert scale. The descriptions are: Strongly agree (5); Agree (4); Neutral (3); Disagree (2); Strongly Disagree(1) [26].

Table 1. Operational Definition and Measurement of

Variables

	N	0.	Variable		Indicator		
	1.		Financial	1) Create and record			
		Behavior (X1)		expense and expenditure budgets,			
					2) Provide funds for unexpected expenses,		
				3)	The habit of saving once every month,		
				4) Perform price comparisons be making a purcha Pay bills on time			
2	•	Financial Literacy (X2)		1) Economic transactions and the like 2) Economic resources			
					3) Shopping concept		
				4) Save concept			
				5)Tax			
) Financial crime		
				7)	Beliefs regarding financial institutions, their products and services [27].		

3.	Financial) inclusion (Y)	Financial Knowledge Financial Behavior Financial Attitude Future planning [1].
4.	Intellectual) Capital (Z))	Curiosity and motivation Experience Innovation and Creativity Competency ability [3].

The analytical method in this study uses the Partial Least Square (PLS) method through a variance-based structural equation model (SEM) statistical test tool. Data analysis of this research was carried out using Smart PLS and applying verification analysis comprised three stages, namely measuring the outer model, evaluating the structural model (inner model), and testing the research hypothesis.

4 Results and Discussions

4.1 Characteristics of Respondents

The descriptive results of the characteristics of the respondents in this study used the number of male respondents 175 people, less than the number of female respondents, 325 people. Respondents in this study were 455 people aged 22-25 years, while those aged 26-29 years were 30 people and respondents aged 30-42 years were 15 people. The educational background of the respondents used is only Senior Highschool graduates. The current occupations of respondents are diverse, ranging from self-employed, contract employees, and permanent employees. This condition causes the amount of income he gets to vary from IDR 2,500,000 - IDR 4,500,000 every month. The needs of life are high enough to make their consumption power is also high. This resulted in their ability to save only about 12.88% of the total income of respondents (unbaked people).

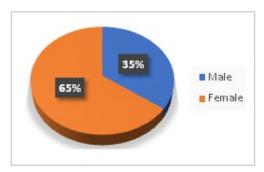


Fig. 3: Gender respondents

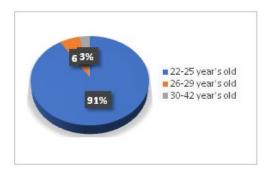




Fig. 4: Respondent's age

4.2 Validity and Reliability Test

Table 2. Research Instrument Test Results

Variable	Items		elation (r)	Coefficient		
		r	Status	Alpha	Status	
	FB01	0.410	valid			
Financial	FB02	0.966	valid			
Behavior	FB03	0.966	valid	0.816	reliable	
(X1)	FB04	0.965	valid			
	FB05	0.963	valid			
	FL06	0.543	valid			
	FL07	0.918	valid		reliable	
Financial	FL08	0.918	valid	0.776		
Literacy	FL09	0.342	valid			
(X2)	FL10	0.918	valid			
	FL11	0.918	valid			
	FL12	0.431	valid			
	IK13	0.762	valid			
Financial	IK14	0.737	valid			
inclusion	IK15	0.839	valid	0.792	reliable	
(Y)	IK16	0.771	valid			
	IK17	0.631	valid			
	IC18	0.886	valid		reliable	
Intelle ctual	IC19	0.896	valid	0.839		
Capital (Z)	IC20	0.896	valid	0.035	. CHable	
	IC21	0.886	valid			

Based on Table 2, all question items have a correlation value (r) greater than 0.3, while the alpha coefficient is greater than 0.6. Thus, it means that all question items for each variable are valid and reliable for further testing.

4.3 SEM (Structural Equation Model) Test

The stages before carrying out the SEM test will test the outer model and inner model. This outer model test uses composite reliability data, which measures a construct. Dimensions are reliable if they have a composite reliability value above 0.7, as follows.

The inner model is evaluated using R-Square for the dependent construct. The results of the calculations that have been carried out to find that the R-Square value for the influence of financial behavior and financial literacy variables on financial inclusion is 0.780 or 78%, While the influence of financial behavior and financial

Table 3. Composite reliability calculation results

Dimension	Composite Reliability	R-Square		
Financial Behavior (X1)	0.884	-		
Financial Literacy (X2)	0.834	-		
Financial inclusion (Y)	0.863	0.780		
Intellectual Capital (Z)	0.939	0.208		

inclusion variables through intellectual capital on financial inclusion is 0.208 or 20.8%.

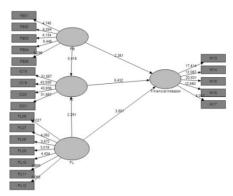


Fig. 5: Test results

Hypothesis testing is done by comparing the t-count value with the t-table value, if the t-count value is greater than t-table, then the relationship is significant between the variables and vice versa when t-count is less than t-table, then there is no significant relationship between the variables. The amount of data tested is 500, then the value of t table (\square = 5%) got 1,964. The presentation is as follows.

Table 4. Influence between research variables

Hypothesis	Influence				koef.path	Information
H1	Financial behavior →	Financial inclusion		2,913*	-0.691	Significant
H2	Financial literacy →	Financial inclusion		4,272*	1.136	Significant
Н3	Financial behavior & Financial literacy →	Intellectual capital	→ Financial inclusion	5,513*	0.416	Significant

The test results shown in table 4 will then be presented and carried out with wetting and discussion with some of the previous

literature. The explanation is as follows.

4.4 Discussions

Financial behavior has a positive and significant influence on financial inclusion with a CR value (t count > t table (2,913 > 1,964) and a path coefficient of -0.691, this coefficient shows that there is a significant negative relationship between financial behavior and financial inclusion. The increasing public financial behavior in developing countries this will also suppress the level of financial inclusion. Conversely, when the financial behavior of people in developing countries is still low, the level of financial inclusion will be higher. This condition will certainly make it difficult for the country to prosper and prosper its people [13], [28]. This result also shows that the first hypothesis is not rejected.

Financial literacy has a positive and significant influence on financial inclusion with a CR value (t count > t table (4,272 > 1,964) and a path coefficient of 1,136, this coefficient shows that there is a significant positive relationship between financial literacy and financial inclusion. The better the level of public financial literacy, this will also increase inclusion finance [29]. These results also show that the second hypothesis is not rejected.

Intellectual capital can intervene strongly in the relationship between financial behavior and financial literacy on financial inclusion with a CR value (t count > t table (5.513 > 1.996) and a path coefficient of 0.416, this coefficient shows that there is a significant positive relationship between financial behavior and financial literacy with financial inclusion. These results also show that a person's intellectual capital ability regarding financial behavior and financial literacy can grow access to finance for the community, so that financial inclusion can be reduced [2]. This result also shows that the third hypothesis is not rejected.

The findings of this research are certainly different from several previous studies [1], [3], [31]– [33], [6], [8], [9], [13], [16], [27], [28], [30]. This difference is not only a research gap, but leads to a recent finding on the development of a science between psychology, social science and finance that gave rise to the current concept of financial behavior.

5 Conclusions

Data collection, calculation, testing and analysis of data that have been carried out found findings that financial behavior and financial literacy have a positive and significant influence on financial inclusion. These results prove that a person's behavior and intellectuality about finances plays a very important role in the difficulties of financial inclusion in developing countries. These two variables also depend on the level of public education that he takes. When a person has received a proper education, then he will be smarter in behavior to maintain his financial ability [31], [32]. Of course, this finding contributing is very important for stakeholders who want to improve financial access for all unbanked people in developing countries, through the concept of financial behavior.

We give great appreciation to the respondents for helping in obtaining opinions and data for carrying out this research in the new normal period. We realize it is difficult to conduct research in the new normal because many parties keep their distance from each other for the sake of mutual health. This updated concept is still difficult to apply and translate into learning curricula for the unbaked community in developing countries today. This is because the differences in behavior and

intellectuality of the unbanked people in each developing country are unique and not the same as Indonesia. There needs to be cooperation from various elements, such as the central bank of each country, academics, practitioners, digital financial institutions, and social elements of the community to foster good financial behavior with each other, so that financial inclusion can be resolved in a directed manner.

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Wahidahwati has carried out the simulation and the optimization.

Nur Fadjrih Asyik has implemented the Algorithm, organized and executed the experiments of all sections.

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