



INNOVATION AND RESILIENCE IN MANAGING BUSINESSES

DECISION GENERATION Z INVESTMENT FROM A FINANCE BEHAVIOR POINT OF VIEW

Dian Kusumaningtyas^{1*}, Lilis Ardini²

Student of Doctoral Science Management, Indonesia School Of Economics (STIESIA) Surabaya
Indonesia School Of Economics (STIESIA) Surabaya

*Corresponding Author: diankusuma@unpkediri.ac.id

Abstract: This research aims to analyze the influence of behavioral finance on stock investment decisions in Generation Z with interest as an intervening variable. Behavioral finance is an endless theme for us to uncover, the behavior of investors provides its own attraction with several variables that may influence decision-making in investing in shares. This research uses the methodQuantitative. The population in the research were students in Kediri City as Generation Z. The sampling method is Accidental Sampling. The total sample is 147 respondents. The data analysis technique in this research uses PLS Analysis because the variables used are latent variables so projections are needed to measure them and indicators are needed in the variables. Based on the results of the analysis, the overconfidence variable does not affect interest, this overconfidence variable also does not affect investment decisions directly or indirectly, namely through interest as an intervening variable. Furthermore, the fear of regret variable influences interest, it also influences investment decisions directly and indirectly, namely through interest as an intervening variable. The next variable is Herding, herding influences interest, but this variable does not influence investment decisions directly or indirectly.

Keywords: Investment Decisions, Behavior Finance

1. Introduction

Let's Save Stocks (YNS) is a campaign tagline organized by the Indonesian Stock Exchange (BEI) which aims to invite the general public as potential investors to be willing to invest in the capital market by buying shares regularly and periodically. This campaign was first launched on November 12 2015 by the Vice President of the Republic of Indonesia, Mr. Muhammad Jusuf Kalla, in the Main Hall of the Indonesia Stock Exchange Building. The aim of this campaign is to invite people to invest, change the culture of saving in society into a culture of investing, apart from that, with investment it is hoped that people's welfare will improve and be stable in the future. Since its launch in 2015, data on investors making investments has increased, in East Java currently investment development. Achievement as of December 2022: 10,311,152 SID. Total addition of 2,821,815 new SIDs or an increase of 37.68%. This includes Share SIDs of 4,439,933 SIDs with a total addition of 988,420 new SIDs or an increase of 28.64% (IDX, 2022).



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Figure 1. Development of SID in East Java

(Source. IDX, 2022)

The development of Single Investor Identification (SID) in East Java as of December 2022 has increased by 29.1% and overall the East Java SID is ranked No. 3 in Indonesia. If we look at Figure 2, the development of SID based on age, investors aged 11-26 years dominate, this is Generation Z or what we usually call Gen Z. Gen Z is for those born from 1997 to 2012.



Figure 2. SID by Age (Source, IDX, 2022)

Generation Z, which is currently a maximum of 23 years old, can make investment decisions. We know that many factors influence decision-making, including Rational attitudes, namely Investors' thinking attitudes based on the data and facts they obtain (Ariani et al, 2016) and Irrational attitudes which are influenced by psychological factors (Budiarto & Susanti, 2017). Financial behavior and investment decisions are an interrelated unit. The important role of financial behavior in decision-making is very important because there are psychological factors. This psychological factor is the basis for investors' considerations in maximizing their investment profits (Prawirasasra & Dialysa, 2015).

Behavior Finance is a study that studies the existence of psychological phenomena that are capable of financial behavior. The Behavior Finance concept provides the conclusion that some investors consider non-economic aspects more, especially psychological aspects, which can influence investors who often take actions based on judgment and developments based on theories put forward in the capital market regarding the assumption of rationality. (Shefrin, 2000). There are sixteen psychological factors researched by Rr. Iramani and Dhyka Bagus



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(2008) namely Overconfidence, Data Mining, Status Quo, Social Interaction, Emotion, Representatives, Familiarity, Pride and Regret, Considering the Past, Fear and Greed, Self Control, Loss Aversion, Mental Accounting, Herd-like Behavior and Vividness Bias which can shape investor behavior in carrying out stock transactions.

According to Lord et al., (1979), Overconvidence is the perception held by individuals/organizations who feel they already have sufficient knowledge and experience about something. According to Ahmed et al., (2021) Nguyen et al., (2020) Jain et al., (2019) Qasim et al., (2019) Gill et al., (2018) Budiarto (2017) Kahn et al., (2017) stated that overconfidence has a positive influence on stock investment decision making. Because investors who psychologically feel overconfidence are influenced in making investment decisions. However, research conducted by Rahman & Gan, (2020) Shah et al., (2018) Hameed et al., (2018) stated that the overconfidence variable has a negative influence on stock investment decision-making.

The reality is that many investors are not rational in making investment decisions. Investors' decisions tend to be influenced by their psychological characteristics and one of the psychological symptoms that often affects investors in the capital market is fear of regret, which causes them to hesitate and act irrationally. This is what many investors then consider and increasingly leads them to deviate from the principle of rationality.

Another factor that influences investment decisions is herding which is identified as the behavioral tendency of investors to follow other investors (Ghalandari & Ghahremanpour, 2013). This is supported by Manuel & Mathew, 2017; Ramdani, 2017) where herding behavior has a positive influence on investment decisions. This is different from research results (Alquraan et al., 2016; Bakar & Ng, 2016; Setiawan, Atahau, & Robiyanto, 2018) where herding behavior does not influence investment decisions.

Not all investors registered with KSEI can analyze or read the information contained in the company's financial reports. Therefore, they will look for information by looking at the latest news, as well as asking for advice from friends, influencers, colleagues, etc., and will feel safer if they consider decisions made by other investors Jain et al., (2019). According to Rahayu, Rohman, and Harto (2021) Christopher, (2020) Adielyani & Mawardi, (2020), Qasim et al., (2019) Herding has a significant positive influence on investment decision-making. However, several studies reveal different analysis results that the negative influence of herding on stock decision-making was also stated by Adil et al.,

Based on the phenomenon of Generation Z dominating the stock investment market, psychologically they still have unstable emotions, and based on the existence of GAP in previous research, researchers are interested in exploring the influence of behavior finance (Overconfidence, Fear of Regret, Herding) on stock investment decisions in generation Z with interest as an intervening variable.

2. Literature Review

Investation decision

Investment is an activity to invest part or all of one's capital in a certain field. Investors can invest their capital in the capital market, money market, bonds or other fields Budiarto (2017). Investment decision making behavior is an action where investors in making investments will be influenced by rational and irrational factors.

Interest

Interest has a huge influence on the activities carried out. Factors that support the development of interest are internal and external. Interest is a psychological function or conscious response to being interested in an object, whether in the form of a thing or



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something else, while investment is defined as a commitment to a certain amount of funds or other resources made now, to obtain profits in the future (Tandelilin, 2010)

Behavior Finance

Behavioral finance theory is an explanation of financial markets using cognitive psychology models and private limits. This model is broader than the expected utility theory and Ritter's (2003) arbitrariness assumption. Behavioral finance is a science that explains how cognitive and emotional factors can influence financial decision-making. Behavioral finance explains and increases understanding of investors' reasoning patterns, as well as the emotional patterns involved and the extent to which they influence investment decision-making (Ricciardi and Simon, 2000). Bodie, Kane, and Marcus (2016) explain that behavioral finance is a financial market model that emphasizes the potential implications of psychological factors that influence investor behavior. This irrationality is divided into two categories. First, investors do not always process information correctly and therefore infer incorrect probability distributions about future rates of return. Second, even given a probability distribution of returns, investors often make decisions that are neither consistently nor systematically optimal.

Overconfidence

Overcovidence or what can be interpreted as excessive self-confidence is when someone has expectations that are not in accordance with the reality of something (Scheinkman & Xiong 2003). Overconfidence can be caused by the illusion of knowledge. Where individuals or organizations feel they already have a lot of knowledge and experience about something themselves (Lord et al., 1979).

Fear of Regret

Statman (1995) in Asri (2013) conducted research that focused on a psychological symptom called fear of regret, which ultimately causes investors to hesitate and act irrationally. A person tends to be more careful (as a reflection of the amount of fear of regret) if the decision they make will have an impact on their family. On the other hand, he tends to be braver in making decisions that will only have consequences for himself. This theory states that individuals evaluate their expected reactions to an event or situation in the future. For example, if an investor has experienced a loss on his investment in stock "X", then the person concerned will make improvements to the analysis so that in the future the same thing does not happen. This theory is known as the theory of regret (Hidayati, 2018)

Herding

Herding is an assumption that investors' actions following other investors' decisions can provide profitable and reliable information. Millennial investors consider herding in making investment decisions (Adielyani & Mawardi, 2020). This is in line with Rahayu et al., (2021) who stated that investors in Indonesia are positively influenced by herding when making investment decisions. Because investors in Indonesia tend to ignore their own abilities and rely more on the investment decisions of other people who are considered experts in investing

3. Method

a. Research Approaches and Techniques

The approach in this research is a quantitative approach. According to Sugiyono (2017:12), research with a quantitative approach emphasizes analysis in numerical data (numbers) which are processed using statistical methods. The research technique used in this



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research is descriptive. According to Sugiyono (2017:59), Descriptive method is research that depicts, depicts, or explains the condition of the object under study as it is, according to the situation and conditions when the research was carried out.

b. Population, Sample and Data Collection Techniques

The data collection method in this research is by compiling a questionnaire which is distributed using Google Form*and questionnaire*, which was then distributed to all students in Kediri City. Sampling was carried out in this research using accidental sampling, namely accidental sampling, namely sampling based on chance. This means it could be anyone who happens to meet the researcher(Sugiyono, 2017:62). In determining the sample size used, Sugiyono, (2017:91) suggests the sample size for research as follows:

- 1) A feasible sample size in research is between 30 and 500.
- 2) If the sample is divided into categories, the minimum number of sample members for each category is 30.
- 3) If the research will carry out a multivariate analysis (correlation or multiple regression for example), then the number of sample members must be at least 10 times the number of variables studied. For example, there are 5 research variables (independent + dependent), then the number of sample members = $10 \times 5 = 50$.

Because the population is unknown, the sampling number calculation is 10 x variables: 10 x5so there is minimal sampling50 respondents.

From distributing the questionnaire, 167 respondents filled out the questionnaire or Google form.

c. Data Analysis Techniques

The data analysis technique in this research uses PLS Analysis because the variables used are latent variables so projections are needed to measure them so indicators are needed. Partial least squares (PLS) is a powerful analysis method and is often referred to as soft modeling because it eliminates the assumptions of the Ordinary Least Squares (OLS) technique, such as the distribution of residuals does not have to be a multivariate normal distribution. In addition, in PLS the sample does not have to be large, nominal, interval and ordinal measurement scales can be used in the same model (Ghozali and Latan, 2012).

4. Results and Discussion

Partial Least Square Analysis

The purpose of this research a dalah foranalyzeWhat is the influence of behavioral finance (Overconvidence, Fear of Regret, Herding) on stock investment decisions in generation Z with interest as an intervening variable. The PLS results will be explained in detail as follows:

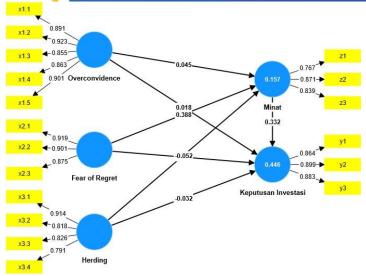
1. Evaluation of Outer Model (Measurement Model)

The following is an image of the measurement model developed in this research:



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Picture 4. Behavior finance analysis measurement model (Overconvidence, Fear of Regret, Herding) on stock investment decisions in generation Z with interest as an intervening variable

a. Convergent Validity(Convergent Validity)

The first evaluation of the outer model is convergent validity. To measure convergent validity, the outer loading value can be used. An indicator is said to meet convergent validity if it has an outer loading value > 0.7.

The following are the outer loading values for each indicator on the research variables:

Table 1. Value Results Outer Loading						
Fear of	Herding	Investation	Interest			
Regret		decision		(

	Fear of	Herding	Investation	Interest	Over-
	Regret		decision		confidence
x1.1					0.891
x1.2					0.923
x1.3					0.855
x1.4					0.863
x1.5					0.901
x2.1	0.919				
x2.2	0.901				
x2.3	0.875				
x3.1		0.914			
x3.2		0.818			
x3.3		0.826			
x3.4		0.791			
y1			0.864		
y2			0.899		
у3			0.883		
z1				0.767	
z2				0.871	
z 3				0.839	

Source: Data results, processed 2023

Based on Table 1, it can be explained that the outer loading obtained by each indicator for all variables Overconvidence, Fear of Regret, Herding, interest and investment decisions are all greater than 0.7. This means that the indicators that make up the variables Overconvidence, Fear of Regret, Herding, interest and investment decisions used in this research have met convergent validity, so that the three indicators that make up the variables Overconvidence, Fear of Regret, Herding, interest and decision investments can be used for further analysis.



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b. DiscriInterest Validity (Discriminant Validity)

The second evaluation of the outer model is discriminant validity. To measure discriminant validity, cross loading values can be used. An indicator is said to meet discriminant validity if the indicator's cross loading value for its construct is the largest compared to other constructs. The following are the cross loading values for each indicator:

Table 2.Cross Loading Value Results

Table 2.07033 Louding Value Results								
	Fear of	Herding	Investation	Interest	Over-			
	Regret		decision		confidence			
x1.1	0.608	0.549	0.363	0.216	0.891			
x1.2	0.652	0.553	0.370	0.208	0.923			
x1.3	0.521	0.622	0.195	0.099	0.855			
x1.4	0.561	0.483	0.413	0.250	0.863			
x1.5	0.638	0.576	0.377	0.361	0.901			
x2.1	0.919	0.447	0.551	0.425	0.654			
x2.2	0.901	0.438	0.590	0.338	0.573			
x2.3	0.875	0.458	0.438	0.281	0.605			
x3.1	0.431	0.914	0.328	0.238	0.498			
x3.2	0.452	0.818	0.143	0.068	0.639			
x3.3	0.406	0.826	0.077	0.048	0.541			
x3.4	0.411	0.791	0.141	0.021	0.507			
y1	0.524	0.247	0.864	0.360	0.360			
y2	0.548	0.249	0.899	0.502	0.393			
y3	0.496	0.210	0.883	0.491	0.322			
z1	0.139	0.060	0.330	0.767	0.069			
z2	0.325	0.119	0.458	0.871	0.192			
z3	0.434	0.204	0.460	0.839	0.354			

Source: Data results, processed 2023

Based on Table 2, it is known that the five indicators of the Overconvidence variable have the largest cross loading value on the Overconvidence variable, the three Fear of Regret indicators have the largest cross loading value on the Fear of Regret variable, the four Herding indicators have the largest cross loading value on the Herding variable, the three interest indicators have The largest cross loading value is on the variable of interest, likewise the three indicators of the investment decision variable also have the largest cross loading value on the investment decision variable. In other words, the cross loading value of each indicator on its construct is the largest compared to other constructs.

c. Composite Reliability

The final evaluation of the outer model is composite reliability. Composite reliability tests the reliability value of indicators on a construct. A construct or variable is said to meet composite reliability if it has a composite reliability value > 0.7. The following are the composite reliability values for each construct or variable:

Table 3. Composite Reliability Value Results

Tuble electriposite Hemability value Hesius				
Construct (Variable)	Mark Composite Reliability			
Overconfidence	0.926			
Fear of Regret	0.904			
Herding	0.913			
Interest	0.866			
Investation decision	0.949			

Source: Data results, processed 2023

Table 3 shows that the composite reliability values for the variables Overconvidence, Fear of Regret, Herding, Interest and Investment Decisions are all more than 0.7. Thus, in the research model, each variable meets composite reliability.



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2. Evaluation of Inner Model (Structural Model)

The following is a picture of the structural model developed in research analyzing Overconvidence, Fear of Regret and Herding on stock investment decisions in generation Z through Interest as an intervening variable:

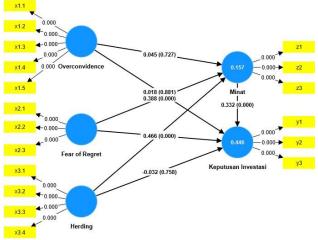


Figure 2.Structural Model analysis of Overconvidence, Fear of Regret and Herding on Generation Z stock investment decisions through Interest as an intervening variable

a. R-Square Value

The first evaluation of the inner model is seen from the R-Square value or coefficient of determination. Based on data processing with PLS, the R-Square value is produced as follows:

Table 3.R-Square Value Results

	Mark
	R-Square
Interest	0.446
Investation decision	0.157
G A 1' O	

Source: Appendix 3

Goodness of fit in the PLS model it can be known from the Q2 value. The Q2 value has the same meaning as the coefficient of determination (R-square / R2) in regression analysis. The higher R2, the better the model can be said to fit the data. From Table 3 above, the Q2 value can be seen as follows: R2 for the Interest variable is 0.157, meaning that the level of variation in changes in the Interest variable that can be explained by the Overconvidence, Fear of Regret and Herding variables is 15.7%. Meanwhile, the Investment Decision variable has an R2 of 0.446, which means that the level of variation in changes in the Investment Decision variable which can be explained by the Overconvidence, Fear of Regret, Herding and Interest variables is 44.6%.

b. Causality Test

Next is the causality test and is used to test the research hypothesis of analysis of Overconvidence, Fear of Regret and Herding on Generation Z share investment decisions through Interest as an intervening variable. The research hypothesis can be accepted if the p-value is <0.05. The following are the path coefficient values (original sample estimates) and p-values in the inner model:

Table 4. Coefficient Value Results Path and p-value

Causality	Original	Standard	T statistics	P
	sample	deviation	(O/STDEV)	values
	(O)	(STDEV)		



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<u> </u>				
Fear of Regret -> Investment				
Decisions	0.466	0.093	5,020	0,000
Fear of Regret -> Interest	0.388	0.100	3,887	0,000
Herding -> Investment Decisions	-0.032	0.104	0.308	0.758
Herding -> Interest	-0.052	0.139	0.374	0.708
Interest -> Investment Decision	0.332	0.085	3,898	0,000
Overconfidence -> Investment				
Decision	0.018	0.123	0.149	0.881
Overconfidence -> Interest	0.045	0.130	0.349	0.727

Source: Data results, processed 2023

Based on Table 4, it can be explained in detail the testing of the research hypothesis analysis of Overconvidence, Fear of Regret and Herding on Generation Z share investment decisions through Interest as an intervening variable:

- 1. Hypothesis 1: There is a significant influence of Overconfidence on Interest The resulting path coefficient is 0.045 with a p-value of 0.727 which is greater than 0.05, this shows that there is an insignificant positive influence between Overconfidence and Interest. This means that the greater the Overconfidence, the more Interest can be increased, but the increase is not significant. Based on these results, the first research hypothesis is that Overconfidence has a significant effect on Interestsonot acceptable.
- 2. Hypothesis 2: There is a significant influence of Fear of Regret on Interest The resulting path coefficient is 0.388 with a p-value of 0.000 which is smaller than 0.05, this shows that there is a significant positive influence between Fear of Regret and Interest. This means that the higher the Fear of Regret, the higher the Interest. Based on these results, the second research hypothesis which suspects that Fear of Regret has a significant effect on Interest can be accepted.
- 3. Hypothesis 3: There is a significant influence of Herding on Interest The resulting path coefficient is -0.052 with a p-value of 0.708 which is greater than 0.05, this shows that there is an insignificant negative influence between Herding and Interest. This means that the higher the Herding, the lower the Interest. Based on these results, the third research hypothesis which suspects that Herding has a significant effect on Interest cannot be accepted.
- 4. Hypothesis 4: There is a significant influence of Overconfidence on Investment Decisions
 - The resulting path coefficient is 0.018 with a p-value of 0.881 which is greater than 0.05, this shows that there is an insignificant positive influence between Overconfidence on Investment Decisions. This means that the greater Overconfidence can increase Investment Decisions, but statistically it is not significant. Based on these results, the fourth research hypothesis which suspects that Overconfidence has a significant effect on Investment Decisions cannot be accepted.
- 5. Hypothesis 5: There is a significant influence of Fear of Regret on Investment Decisions The resulting path coefficient is 0.446 with a p-value of 0.000 which is smaller than 0.05, this shows that there is a significant positive influence between Fear of Regret on Investment Decisions. This means that the higher the Fear of Regret can increase Investment Decisions. Based on these results, the fifth research hypothesis which suspects that Fear of Regret has a significant effect on Investment Decisions can be accepted.
- 6. Hypothesis 6: There is a significant influence of Herding on Investment Decisions The resulting path coefficient is -0.032 with a p-value of 0.758 which is greater than 0.05, this shows that there is an insignificant negative influence between Herding on Investment Decisions. This means that the greater the Herding, the lower the Investment



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Decision. Based on these results, the sixth research hypothesis which suspects that Herding has a significant influence on Investment Decisions cannot be accepted.

7. Hypothesis 7: There is a significant influence of interest on investment decisions. The resulting path coefficient is 0.332 with a p-value of 0.000, which is smaller than 0.05, this shows that there is a significant negative influence between Interest and Investment Decisions. This means that the greater the interest, the greater the investment decision. Based on these results, the seventh research hypothesis which suspects that Interest has a significant influence on Investment Decisions can be accepted.

The following are the path coefficient values (original sample estimate) of the indirect effect and the p-value in the inner model:

Table 5 Coefficient Value Results Path and p-value of Indirect Effects

Causality	Original sample (O)	Standard deviation (STDEV)	T statistics (O/STDEV)	P values
Overconfidence -> Interest -> Investment	0.015	0.044	0.340	0.734
Decision Fear of Regret -> Interest -> Investment Decision	0.129	0.041	3,141	0.002
Herding -> Interests -> Investment Decisions	-0.017	0.047	0.366	0.714

Source: Data results, processed 2023

- 8. Hypothesis 8: There is a significant influence of Overconfidence on Investment Decisions through Interest.
 - The path coefficient for Overconvidence on Investment Decisions through Interest is 0.015 with a p-value of 0.734 which is greater than 0.05, this shows that there is an insignificant positive influence between Overconvidence on Investment Decisions through Interest. This means that the greater Overconfidence will be able to increase Investment Decisions through Interest, but the increase is not statistically significant.
 - Based on these results, the eighth research hypothesis which suspects that Overconfidence has a significant effect on Investment Decisions through Interest cannot be accepted.
- 9. Hypothesis 9: There is a significant influence of Fear of Regret on Investment Decisions through Interest.
 - The path coefficient for Fear of Regret on Investment Decisions through Interest is 0.129 with a p-value of 0.002, smaller than 0.05, this shows that there is a significant positive influence between Fear of Regret on Investment Decisions through Interest. This means that the greater the Fear of Regret, the greater the Investment Decision through Interest. Based on these results, the ninth research hypothesis which suspects that Fear of Regret has a significant effect on Investment Decisions through Interest can be accepted.
- 10. Hypothesis 10: There is a significant influence of Herding on Investment Decisions through Interest.
 - The resulting path coefficient of Herding on Investment Decisions through Interest is -0.017 with a p-value of 0.714 which is greater than 0.05, this shows that there is an insignificant negative influence between Herding on Investment Decisions through Interest. This means that the greater Herding will be able to reduce Investment Decisions through Interest, but the decrease is not significant. Based on these results, the tenth research hypothesis which suspects that Herding has a significant influence on Investment Decisions through Interest cannot be accepted.



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5. Conclusions

Based on the results of behavioral finance analysis on students, the overconfidence variable does not affect interest, this overconfidence variable also does not affect investment decisions directly or indirectly, namely through interest as an intervening variable. Furthermore, the fear of regret variable influences interest, it also influences investment decisions directly and indirectly, namely through interest as an intervening variable. The next variable is Herding, herding influences interest, but this variable does not influence investment decisions directly or indirectly.luence investment decisions directly or indirectly.

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