

**DETERMINANTS OF MACROECONOMIC INDICATORS ON
THE LEVEL OF COLLECTION OF ZAKAT, INFAQ,
SHODAQOH, (ZIS) FUNDS IN BAZNAS 2005-2023
VECM APPROACH**

Artikel Imiah

**Oleh :
ANDRIANSYAH BASTIAN
NPM: 2151010015**



Program Studi Ekonomi Syariah

**FAKULTAS EKONOMI DAN BISNIS ISLAM
UNIVERSITAS ISLAM NEGERI RADEN INTAN
LAMPUNG
1446 H / 2024 M**

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Artikel Ilmiah

**Diajukan untuk Melengkapi Tugas-tugas dan Memenuhi Syarat-
Syarat Guna Mendapatkan Gelar Sarjana S1 dalam
Ilmu Ekonomi dan Bisnis Islam**



Pembimbing I: Dr. Erike Anggraeni, M.E.Sy
Pembimbing II: Gustika Nurmalia, M.Ek

**FAKULTAS EKONOMI DAN BISNIS ISLAM
UNIVERSITAS ISLAM NEGERI
RADEN INTAN LAMPUNG
1446 H/2024 M**



**KEMENTERIAN AGAMA
UIN RADEN INTAN LAMPUNG
FAKULTAS EKONOMI DAN BISNIS ISLAM**

Alamat : Jl. Letkol H. Endro Suratmin, Sukarame Bandar Lampung Telp (0721) 703289

SURAT PERNYATAAN

Saya yang bertanda tangan di bawah ini :

Nama : Andriansyah Bastian
NPM : 2151010015
Jurusan/Prodi : Ekonomi Syariah
Fakultas : Ekonomi Dan Bisnis Islam

Menyatakan bahwa skripsi yang berjudul **“DETERMINANTS OF MACROECONOMIC INDICATORS ON THE LEVEL OF COLLECTION OF ZAKAT, INFAQ, SHODAQOH, (ZIS) FUNDS IN BAZNAS 2005-2023 VECM APPROACH”** adalah benar-benar merupakan hasil karya penyusun sendiri, bukan duplikasi ataupun saduran dari karya orang lain kecuali pada bagian yang telah dirujuk dan di sebut dalam footnote atau daftar rujukan. Apabila di lain waktu terbukti adanya penyimpangan dalam karya ini, maka tanggung jawab sepenuhnya ada pada penyusun.

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Bandar Lampung, 5 November 2024
Penulisan



Andriansyah Bastian
NPM. 2151010015



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UNIVERSITAS ISLAM NEGERI
RADEN INTAN LAMPUNG
FAKULTAS EKONOMI DAN BISNIS ISLAM**

Alamat: Jl Letkol. H. Endro Suratmijin Sukarame I Telp. (0721) 703289, Bandar Lampung

PERSETUJUAN

Judul Artikel : *Determinants of Macroeconomic Indicators on the Level of Collection of Zakat, Infaq, Shodaqoh, (ZIS) Funds In Baznas 2005-2023 Vecm Aproach*

Nama : **Andriansyah Bastian**

Npm : **2151010015**

Fakultas : **Ekonomi Dan Bisnis Islam**

Jurusan : **Ekonomi Syariah**

MENYETUJUI

Untuk dimunaqosahkan dan dipertahankan dalam sidang munaqosah
Fakultas Ekonomi Dan Bisnis Islam Universitas Raden Intan
Lampung.

Pembimbing I

Pembimbing II

Dr. Erike Anggraeni, M.E.Sy.

NIP.198208082011012009

Gustika Nurmalia, M.Ek.

NIP.198908072023212056

Mengetahui

Ketua Jurusan Ekonomi Syariah

Dr. Erike Anggraeni, M.E.Sy.

NIP.198208082011012009



KEMENTERIAN AGAMA
UNIVERSITAS ISLAM NEGERI
RADEN INTAN LAMPUNG
FAKULTAS EKONOMI DAN BISNIS ISLAM

Alamat: Jl. Letkol. Ht. Endro Suratmin Sukarame 1 Telp. (0721) 703289, Bandar Lampung

PENGESAHAN

Artikel Ilmiah dengan judul “*Determinants of Macroeconomic Indicators on the Level of Collection of Zakat, Infaq, Shodaqoh (ZIS) Funds In Baznas 2005-2023 Vecm Approach*”, oleh **Andriansyah Bastian, NPM : 2151010015** Program Studi Ekonomi Syariah, Telah diujikan dalam Sidang Munaqosah Di Fakultas Ekonomi Dan Bisnis Islam UIN Raden Intan Lampung Pada Hari/Tanggal : Jum'at, 22 November 2024, Waktu : 09.30-11.00 WIB, Tempat : Ruang Sidang RMA, Gedung A Lt 2

TIM PENGUJI

Ketua : Dr. Hj. Heni Noviarita, S.E., M.Si

Sekretaris : Yulistia Devi, S.E., M.S.Ak

Penguji I : Dr. Muhammad Iqbal, M.E.I.

Penguji II : Dr. Erike Anggraeni, M.E.Sy

Mengetahui
Dekan Fakultas Ekonomi Dan Bisnis Islam
Prof. Dr. Tulus Suryanto, M.M, Akt., C.A.
NIP. 19 706926200811008



MOTTO

فَمَنْ يَعْمَلْ مِثْقَالَ ذَرَّةٍ خَيْرًا يَرَهُ

“Barangsiapa yang mengerjakan kebaikan sekecil apapun,
niscaya dia akan melihat (balasan)nya.”

(Q.S Al-Zalzalah: 7)

~Never Regret a day in your life. Good Days Bring you happiness
and bad days give you experience.

Apapun yang terjadi pulanglah sebagai sarjana~

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Penulis dengan nama lengkap Andriansyah Bastian dilahirkan di Palembang, 18 Desember 2003, yang merupakan anak terakhir dari pasangan Bapak Ilyan dan Ibu Hilallinujemi. Pendidikan yang penulis tempuh adalah SDN 2 Kedamaian yang diselesaikan pada tahun 2015, dan melanjutkan ke MTS Darul Huffaz Lampung, yang diselesaikan pada tahun 2018. Kemudian melanjutkan ke MA Darul Huffaz Lampung, yang diselesaikan pada tahun 2021. Pada tahun 2021 penulis langsung melanjutkan ke jenjang pendidikan perguruan tinggi di Universitas Islam Negeri Raden Intan Lampung program strata 1 (S1) pada Program Studi Ekonomi Syariah, Fakultas Ekonomi dan Bisnis Islam.

Bandar Lampung, 5 November 2024
Penulisan

Andriansyah Bastian
NPM. 2151010015

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NPM. 2151010015

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E-mail : andriansyahbastian18@gmail.com

ABSTRACT

The researcher wants to examine the focus of inflation, GDP and exchange rates, which are macroeconomic factors that influence the economy on the collection of ZIS funds in Baznas in 2005-2013 using the VECM approach. This type of research uses a quantitative approach, the data used is quantitative data obtained from secondary sources. This research approach uses an analytical method, namely the Vector Error Correction Model (VECM) with Eviews 10. The data used in this research is data from the Central Statistics Agency (BPS), the World Bank, the National Zakat Amil Agency (BAZNAS) and other literature. discuss the relevant research material. The results of this research show that there is no short-term relationship between the independent variables (Inflation and Exchange Rates) and the dependent variable (ZIS fund collection at Baznas) in 2005-2023. Meanwhile, for the independent variable (Gross Domestic Product) there is a short-term relationship. However, there is a long-term relationship between the independent variables (Inflation and Exchange Rates) and the dependent variable (ZIS fund collection at Baznas) in 2005-2023. And the independent variable (Gross Domestic Product) does not have a long-term relationship. And simultaneously the inflation, exchange rate and PDB variables have a significant effect on the collection of ZIS funds at Baznas.

Keywords: ZIS collection, Inflation, GDP, Exchange Rate, Makro Economics

INTRODUCTION

Poverty has long been a topic of discussion for governments on the world stage (Habibah et al., 2020) One of the problems faced by the government in Indonesia is poverty. Since 1990 until now, problems related to poverty have been strongly influenced by economic conditions. One of the reasons for the decline in poverty is the deteriorating macroeconomic factors that resulted in the economic crisis. The economic crisis that hit Indonesia in 1998 began with the monetary crisis, which resulted in a decline in international confidence in Indonesia. Another impact of the 1998 crisis was the weakening of the rupiah exchange rate against the dollar and high inflation. (Afendi, 2018)

One of the instruments that can reduce poverty is zakat, infaq, shodaqoh. In the Islamic perspective, the principle of social care is interpreted in the concept of zakat, infaq and sadaqah. Through the recommendation of zakat, infaq and alms, Muslim communities are taught to instill social sensitivity. (Amelia et al., 2024) Like taxes, zakat (ZIS) also functions as a fund to achieve social, economic, and national development goals. According to Law (UU) No. 23/2011 on zakat management, zakat is an obligation on the assets of Muslims or companies that have met the requirements to be distributed to recipients as stated in Islamic law. In accordance with the words of Allah SWT in the Qur'an. (Mukarromah & Hasan, 2023)

﴿ إِنَّمَا الصَّدَقَتُ لِلْفُقَرَاءِ وَالْمَسْكِينِ وَالْعَمَلِينَ عَلَيْهَا وَالْمُؤَلَّفَةِ قُلُوبِهِمْ
 وَفِي الرِّقَابِ وَالْغُرَمِينَ وَفِي سَبِيلِ اللَّهِ وَأَبْنِ السَّبِيلِ فَرِيضَةً مِّنَ اللَّهِ
 وَاللَّهُ عَلِيمٌ حَكِيمٌ ﴾

“Indeed, the zakat is only for the poor, the amil zakat, the converted, for (freeing) slaves, for (relieving) debtors, for the way of Allah and for those on a journey, as an obligation from Allah. Allah is all-knowing, all-wise.” (QS. At Taubah (9): 60).

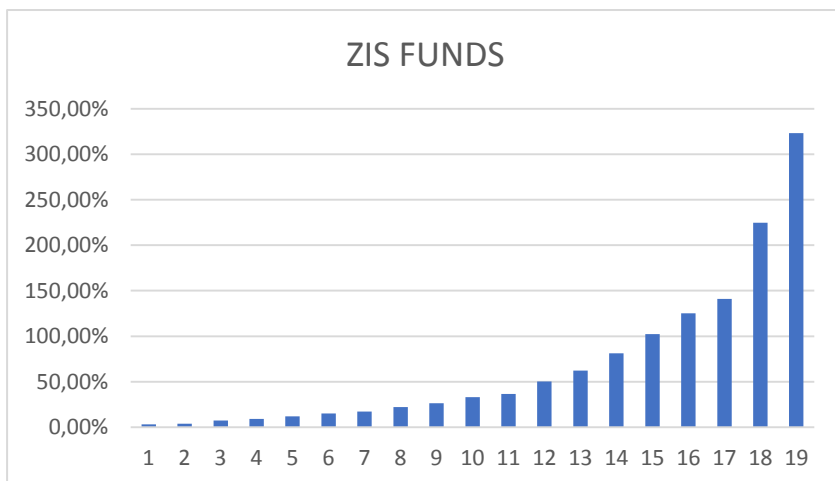
According to Abdul (2006), Zakat consists of two kinds, namely Zakat Fitrah and Zakat Maal (Treasure). Zakat Fitrah is a zakat that must be issued by every Muslim who has excess wealth from reasonable family needs on the night and day of Eid al-Fitr as a sign of gratitude to Allah for completing fasting. Zakat Maal or property zakat is part of a person's wealth (also legal entities) that must be issued to certain groups of people after being owned for a certain period of time in a certain minimum amount. (Abdul Ghofur Anshori, 2006). Zakat is not only a mandatory payment for Muslims, it is also one of the ways to overcome economic problems globally and in Indonesia.

As a country with a large Muslim population, Indonesia has great potential to redistribute income through zakat, infaq and shadaqah. This redistribution will ultimately alleviate economic problems and save human suffering. (Aziz, 2020) As well as funds collected from zakat sadaqah infaq and waqf, will be a huge potential that can empower tens of millions of poor people in Indonesia. The obligation to give zakat for Muslims is in accordance with the words of Allah SWT in the Qur'an.

وَأَقِيمُوا الصَّلَاةَ وَآتُوا الزَّكَاةَ وَارْكَعُوا مَعَ الرَّاكِعِينَ

" And establish prayer, pay the zakat, and bow with those who bow." (QS Al-Baqarah: 43).

Indonesia will have the largest Muslim population in the world by 2023. According to a report by The Royal Islamic Strategic Center (RISSC), the Muslim population in Indonesia will reach 240.62 million by 2023, equivalent to 86.7% of the national population of 277.53. With the number of Muslims in Indonesia equaling 86.7%. The fact that Indonesia is home to the largest number of Muslims in the world is one example of a fact that illustrates the potential to represent zakat collection in Indonesia and the largest in the world. Because seeing that Indonesia is the majority of the Muslim population but the awareness of each individual to make zakat payments is still lacking, the facts contradict this statement.



Source: Baznas.go.id, Data Processed, 2024

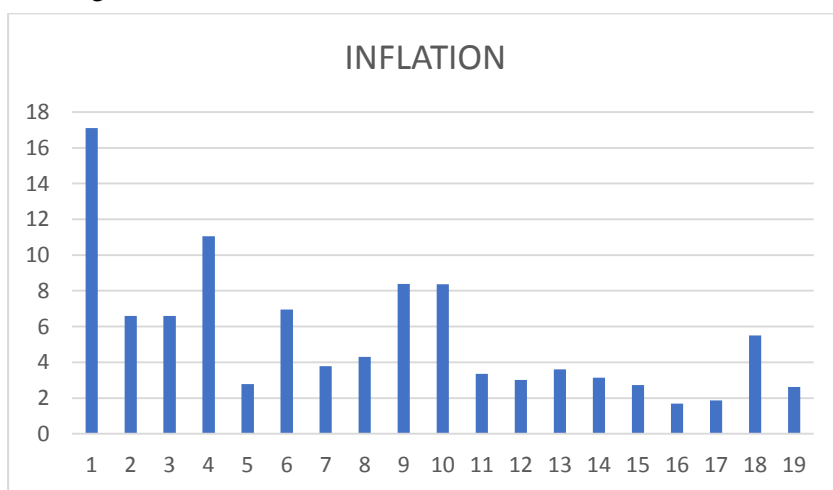
Figure 1.1

**Graph of Total National Zakat Fund Raising in Indonesia
for the period 2005-2023**

Based on the table above, it is known that the number of zakat recipients continues to increase from year to year, but the figures reported by the National Amil Zakat Agency (BAZNAS) are still far from the expected target. Based on the results of BAZNAS calculations, Indonesia's zakat potential reaches IDR 327 trillion where this potential is equivalent to 75% of the social protection budget of the Indonesian state budget (BAZNAS, 2022). This potential implies that zakat can play a big role if it is channeled properly and utilized properly. The process of distributing zakat can be done for consumptive and productive purposes. (Baznas Ri, 2023).

Based on the picture above, the enactment of Law No. 23/2011 on Zakat Management, as a substitute for Law No. 38/1999, encourages the progress of zakat collection to experience major changes, and an increase in zakat collection from year to year. (Dety Mulyanti Et Al., 2023). According to data from the Central Bureau of Statistics, around 9.22% of Indonesia's total population in 2019 is still classified as poor. Based on research conducted by BAZNAS, Indonesia's zakat potential in 2019 is estimated at 233.8 trillion.

Looking at the potential of zakat collection, if maximized, it can help reduce the length of the poverty line in Indonesia. However, the actualization of its collection in 2019 only reached 10.2 trillion. The data shows that the distribution of zakat in 2019 is not too large and has not been maximized. (Muhammad Raihan Mauludin And Sri Herianingrum, 2022). The potential and role of zakat is expected to alleviate poverty in Indonesia, but what happens in the field is still not optimal. There are also several macroeconomic factors that affect the collection of zakat funds from year to year, namely inflation and exchange rates and Gross Domestic Product (GDP).



Source: Bank Indonesia, Data Processed 2024

Figure 1.2

Graph of Inflation Rate 2005-2023

Based on table 1.2 inflation fluctuates every year, in 2013 and 2014 it jumped up 8.38% and 8.36 compared to 2011 which amounted to 3.79%. This value is an obstacle in the government in the process of improving the economy, but even small inflation will have an impact on all aspects of the Indonesian economy, especially on the purchasing power of everyday people.

This in turn has an adverse impact on the obligation to pay zakat. As people become more aware of the need to meet their own needs, inflation becomes more severe and prices of goods rise. As a

result, much of people's income is used to fulfill their basic needs. This can result in people who were previously able to pay zakat becoming people who are unable to pay zakat. Even most of the people become people who are entitled to receive zakat.

Based on research by Sholiqah (2023), found a strong relationship between macroeconomic variables and poverty. In the study that the inflation rate on poverty has a positive effect. This means that the higher the inflation, the greater the poverty rate. (Sholiqah And Fikriyah, 2022). Not only inflation that affects zakat, other macro variables such as exchange rates also have an effect. In Pratiwi's research (2019) explained that the rupiah exchange rate and population variables had a significant positive effect on the amount of ZIS fund collection in 2013-2017. (Intan Pratiwi, 2019). This research is in accordance with the results of Dwitama and Widiastuti's research (2016) which states that the increasing dollar exchange rate against the rupiah not only has a bad impact, but also has a good impact. The increase in the dollar exchange rate against the rupiah will increase the income of people who have income in dollars, such as exporters. For them, the rise of the dollar against the rupiah is a blessing, because the income received by them will be doubled compared to before. This will lead to an increase in the amount of zakat they pay because the calculation of zakat on their income will also increase. (Rio Budi Dwitama And Tika Widiastuti, 2017).

Macroeconomic variables on GDP can also affect the collection of zakat funds, based on research variables of domestic investment, GDP, and industrial production index have a significant short or long term effect on the collection of zakat in 2015-2019 while the BI rate and population variables have no effect. (D Almeyda And S Rusgianto, 2023). And in the research, the variables of GRDP and poverty have a positive and significant effect on the collection of zakat funds in Baitul Maal Hidayatullah in 2016-2021, the provincial minimum wage variable has a negative and insignificant effect. (Catur Hidayatur Rohman And Akhsyim Afandi, 2022). As well as in the research, the inflation variable has a positive influence on ZIS revenue in Baznas. (Munandar & Amirullah, 2021)

Based on the two sources of Islamic teachings, namely the Qur'an and Hadith, legal aspects, especially in the field of mu'amalah, were developed by scholars, including al-Syathibi who tried to develop the principles contained in the two sources of Islamic teachings by linking them with maqashid al-syariah. Where with this maqashid al-syariah approach, the study carried out is more focused on seeing the values in the form of human welfare in every taklif revealed by Allah SWT. According to al-Syathibi, that actually the shari'at aims to realize human welfare in the world and in the hereafter. Or the laws are prescribed for the benefit of servants. (Kutbuddin Aibak, 2015).

Al-Mashlahah is the core of Maqasid Sharia, al-Mashlahah can be achieved if human needs can be met, both material and non-material. The basic needs for humans consist of five things known as dharuriyat al-khams, namely maintaining faith (din), protecting the soul (nafs), protecting the intellect ('aql), protecting offspring (nash) and maintaining material (maal). Therefore, zakat management in Islam is used to protect these five things. In implementing Al-Mashlahah in zakat management by looking at the socio-political reality of the State to optimize zakat in order to achieve community welfare. (Lutfi, 2023)

Based on the description of the problem above, one way to optimize the potential of collecting zakat funds and reduce poverty is to minimize variables that can hinder the potential of zakat. Therefore, this researcher wants to examine the focus of inflation, GDP and exchange rates which are macroeconomic factors that affect the economy on the collection of ZIS funds in Baznas in 2005-2013 VECM approach. In order to maximize the potential of zakat revenue and fight poverty, it is necessary to reduce the factors that can limit the potential of zakat collection.

LITERATURE REVIEW

A. Zakah

Zakat, which is part of worship from the economic approach, aims to maintain socio-economic stability and build a prosperous society in the principle of no-injury (la dhar) so that it can encourage the aggregative economy to the maximum. In line with Al-Qaradawi (2009), zakat can reduce the concentration of wealth in a few handful of economic individuals to ensure fair redistribution of wealth, to fight poverty in society, to achieve social security and economic prosperity. In the social context, zakat is also identified as a core component of Islamic economic philosophy that allows social justice to be upheld in line with the maintenance of social cohesion. (Zaenal et al., 2023)

B. Inflation

Inflation is the tendency for prices to rise generally and continuously over a period of time. The meaning of the word tendency refers to the notion of inflation as a reality, not as numbers on paper (suppressed inflation). (Arko Pujadi, 2022). The inflation rate is generally expressed as a percentage (%). Inflation rates can occur at mild, moderate, severe, and hyperinflationary levels. According to Wikipedia, mild inflation occurs when price increases are below 10%; moderate inflation is between 10 - 30%; and severe inflation is between 30 -100% per year; and hyperinflation or uncontrolled inflation occurs when price increases are above 100% a year. (Suseno And Siti Astiyah, 2009).

There are three important things that inflation emphasizes: 1) There is a tendency for prices to increase, which means that the price level at any given time may be lower or higher than before, but still shows an increasing tendency. 2) That the increase in the price level is sustained, which means that it does not only occur at one time, but can be some time. 3) That the price level referred to here is the general price level, which means that the price level that experiences an increase is not only for one or several commodities, but for the price of goods in general.

C. Exchange Rate (*Kurs*)

According to (Mankiw, 2013). Divided into two types, namely Nominal Exchange Rate Is the value that a person uses when exchanging a country's currency for another country's currency. 2) Real Exchange Rate Is the value a person uses when exchanging goods and services of a country for goods and services of another country. This exchange rate measures the relative price of goods and services available in the country to goods and services available abroad.

According to (Kewal, 2012) exchange rates or also called exchange rates in various transactions or buying and selling foreign exchange are known to be four types, namely: 1) Selling rate, which is the rate determined by a bank for the sale of certain foreign currencies at a certain time. 2) Middle rate, which is the middle rate between the selling rate and the buying rate of foreign exchange against the national currency, set by the Central Bank at a certain time. 3) Buying rate, which is the rate determined by a bank for the purchase of certain foreign currencies at a certain time. 4) Flat rate, which is the rate applicable in the sale and purchase of bank notes and traveler cheques, where the rate has taken into account promotion and other costs.

Factors Affecting Exchange Rate Movement. According to Sukirno, changes in the demand and supply of an exchange which then cause changes in the exchange rate, are caused by many factors, among others. (Sukirno, 2004) Changes in public taste, changes in the price of export and import goods, general price increases (inflation), changes in interest rates and rates of return on investment, economic growth, and other factors. Gross Domestic Product (GDP).

D. Gross Domestic Product (GDP).

GDP is the sum of services received by the factors of production that participate in the production process in a country within a certain period of time (usually one year).

According to (Mankiw, 2013) GDP (Gross Domestic Product) is the most closely watched economic statistic because it is considered the best single measure of the welfare of society. The underlying reason is that GDP measures two things at the same time: the total

income of everyone in the economy and the total expenditure of the state to buy goods and services produced by the economy. The reason GDP can measure total income and expenditure is because for an economy as a whole, income must equal expenditure.

RESEARCH METHOD

A. Population and Sample

Population can be interpreted as all elements in research including objects and subjects with certain characteristics and characteristics. So in principle, population is all members of a group of people, animals, events, or objects that live together in a place in a planned manner to be the conclusion of the final results of a study. (I Made Dwi Mertha Adnyana, 2021). As for this research, the data collected based on the time period, namely on inflation, exchange rates and zakat receipts that have been published by the Central Statistics Agency (BPS) and the National Amil Zakat Agency (BAZNAS) as well as other literature that discusses the research concerned.

In this case the author uses the last 10 years, namely 2013-2023, the method used in sampling this research is Saturated Sampling, which is a technique that determines the sample when all members of the population are used as samples. The number of samples used in this study were 10 samples derived from 10-year reports in Indonesia that have been published by the Central Statistics Agency (BPS), the world bank and the National Amil Zakat Agency (BAZNAS).

B. Data Source

Data sources in this study are data obtained from the Central Statistics Agency (BPS), the World Bank, the National Amil Zakat Agency (BAZNAS) and other literatures that discuss the research material concerned. And directly processed using Eviews 12.

RESULT AND DISCUSSION

Table 1. Second Difference Stationary Test Results

Variable	Uji Stasioner 2 nd Difference	
	ADF	Prob
ZIS	-27.46287	0.0001**
INFLASI	-6.955125	0.0000*
KURS	-10.17349	0.0001*
PDB	-10.17349	0.0001*

Source: Processed Results Eviews 12

2nd Difference: **

1st Difference: *

Based on table 1, it can be seen that all variables are stationary at the second and first difference levels. By using a critical value of 5%/0.05, it shows that all variables have a t-statistic value greater than the critical value (5% level), and a probability value <0.05 (alpha value), so all variables can be said to be stationary at the second & first difference level. Based on this test, all variables have been said to be stationary, so the research can continue with the next test

Table 2. Lag Length Criteria Test Results

Lag	LogL	LR	FPE	AIC	SC	HQ
0	-1036.625	NA	28310958	28.51026	28.63577	28310958
1	-754.0728	526.3977*	19088.19*	21.20747*	21.83500*	21.45755*
2	-750.2658	6.675343	26770.69	21.54153	22.67107	-750.2658
3	-742.8230	12.23473	34194.39	21.77597	23.40753	-742.8230

Source: Processed Results Eviews 12

Based on the results of the Lag Length Test, it can be seen that the lag result obtained from further testing is 1. This is because the LR, FPE, AIC, SC and HQ values have the largest value among other lags, marked by an asterisk on lag 1.

Table 3. Kuualitas Granger Test Results

Null Hypothesis	Obs	F-Statistic	Prob
INFLASI does not Granger Cause ZIS		0.15020	0.6995
ZIS does not Granger Cause INFLASI	75	3.82410	0.0544
KURS does not Granger Cause ZIS		0.21959	0.6408
ZIS does not Granger Cause KURS	75	3.99592	0.0494
PDB does not Granger Cause ZIS	75	0.01482	0.9034
ZIS does not Granger Cause PDB		0.82186	0.3677

Source: Processed Results Eviews 12

Inflation variable (X1) is statistically insignificant to affect ZIS (Y) so that we accept the null hypothesis as evidenced by a probability value of more than 0.05, namely 0.69. While the ZIS Variable (Y) statistically significantly affects the Labor Absorption Rate (X3) so that we reject the null hypothesis as evidenced by a probability value of less than 0.05, namely 0.054. Thus, it can be concluded that there is unidirectional causality between the variables.

The exchange rate variable (X2) is statistically insignificant in affecting ZIS (Y) so that we accept the null hypothesis as evidenced by a probability value of more than 0.05, namely 0.64. While the ZIS variable (Y) statistically significantly affects the exchange rate (X2) so that we reject the null hypothesis as evidenced by a probability value of less than 0.05, namely 0.04. It is concluded that there is unidirectional causality between the exchange rate and ZIS variables,

namely only ZIS which statistically significantly affects the exchange rate and does not apply otherwise.

The GDP variable (X3) statistically insignificantly affects ZIS (Y) and vice versa, the ZIS variable (Y) statistically insignificantly affects the GDP variable (X3) as evidenced by the probability value greater than 0.05, namely 0.90 and 0.36 respectively (both results are to accept the null hypothesis) so it is concluded that there is no causality whatsoever for both GDP and ZIS variables.

Table 4. VECM Model Estimation Results (Long Term)

Long Term				
Variable	Koefisien	T-Statistik	T-Table	Description
INFLASI	4.136751	3.72846	1.993464	Significant
KURS	-1.141558	-4.20055	1.993464	Significant
PDB	-0.483863	-1.17048	1.993464	Not Significant

Source: Processed Results Eviews 12

Based on table 4 in the long run, the Inflation variable has a negative and significant effect on ZIS because the t-statistic value is greater than the t-table, namely $3.72846 > 1.993464$. Furthermore, the exchange rate variable has a positive and significant effect on ZIS because the t-statistic value is greater than the t table, namely $-4.20055 > 1.993464$. Then the GDP variable has no effect on ZIS because the t statistic value is smaller than the t table, namely $-1.17048 < 1.993464$.

Table 5. VECM Model Estimation Results (Short Term)

Short Term				
Variable	Koefisien	T Statistik	T Table	Description
D(LOG(ZIS))	0.606120	6.82738	1.993464	Significant
D(LOG(INFLASI))	-0.204535	-5.22265	1.993464	Significant
D(LOG(KURS))	0.530418	1.94793	1.993464	Not Significant
D(PDB)	0.042766	4.51162	1.993464	Significant

Source: Processed Results Eviews 12

Based on the results in table 5 in the short term on variable X (Inflation and GDP) there is a significant effect on variable Y (ZIS), this is because the entire t statistic value is greater than the t table value. While the variable X (exchange rate) has no effect on variable Y (ZIS) because the t statistic value is smaller than the t table value.

Table 6. Variance Decomposition (VD) Results - ZIS

Response of LOG (ZIS)					
Period	S.E	ZIS	INFLATION	EXCHANGE RATE	GDP
1	0.130572	100.0000	0.000000	0.000000	0.000000
2	0.165511	99.48455	0.331882	0.182930	0.000643
3	0.199075	98.84200	0.948674	0.199981	0.009347
4	0.227943	97.86232	1.888533	0.218838	0.030313
5	0.254894	96.61428	3.092897	0.226975	0.065848
6	0.280457	95.12286	4.531501	0.231456	0.114183
7	0.305194	93.42865	6.164332	0.233068	0.173950
8	0.329423	91.56857	7.955181	0.232818	0.243433
9	0.353377	89.57864	9.869184	0.231209	0.320964
10	0.377219	87.49196	11.87450	0.228609	0.404935

Source: Processed Results Eviews 12

Based on the results of variance decomposition testing on the ZIS variable, it shows: 1) The influence of the ZIS variable on ZIS itself, the higher the period (until the 10th period) the smaller the influence. 2) The influence of the ZIS variable on Inflation fluctuates every period (until the 9th period) but in the last period its influence is getting higher. 3) The effect of ZIS variables on exchange rates fluctuates in each period. 4) The effect of ZIS variables on GDP fluctuates in each period.

Table 7. Variance Decomposition (VD) Results – Inflation

Period	Response of LOG (INFLATION)				
	S.E	ZIS	INFLATION	EXCHANGE RATE	GDP
1	0.328231	0.036722	99.96328	0.000000	0.000000
2	0.459971	0.411562	99.57462	0.013772	4.84E-05
3	0.558136	0.443571	99.54094	0.014794	0.000691
4	0.638614	0.473797	99.50775	0.016212	0.002246
5	0.707545	0.487915	99.48999	0.017128	0.004969
6	0.768130	0.497169	99.47604	0.017942	0.008851
7	0.822290	0.502977	99.46442	0.018669	0.013933
8	0.871294	0.506774	99.45364	0.019352	0.020234
9	0.916032	0.509202	99.44302	0.020007	0.027774
10	0.957160	0.510678	99.43211	0.020646	0.036571

Source: Processed Result Eviews 12

Based on the results of variance decomposition testing on the INFLATION variable, it shows: 1) The influence of the inflation variable on ZIS fluctuates in each period. 2) The influence of the inflation variable on inflation itself experiences a balance in each period. 3) The influence of the inflation variable on the exchange rate fluctuates in each period. 4) The effect of the inflation variable on GDP fluctuates in each period, but the higher the period, the higher the effect even though it is only a little.

Table 8. Variance Decomposition (VD) Results – Exchange Rate

Period	Response of LOG (EXCHANGE RATE)				
	S.E	ZIS	INFLATION	EXCHANGE RATE	GDP
1	0.045199	3.866654	26.40598	69.72736	0.000000
2	0.063585	3.007058	27.57542	69.41749	2.78E-05
3	0.078043	2.842048	28.22094	68.93663	0.000388
4	0.090360	2.735379	28.82439	68.43900	0.001232
5	0.101348	2.676259	29.38802	67.93306	0.002660
6	0.111395	2.635962	29.93274	67.42668	0.004622
7	0.120739	2.607410	30.46313	66.92236	0.007098
8	0.129533	2.585918	30.98239	66.42164	0.010055
9	0.137881	2.569133	31.49205	65.92535	0.013463
10	0.145861	2.555588	31.99307	65.43405	0.017295

Source: Processed Results Eviews 12

Based on the results of variance decomposition testing on the exchange rate variable, it shows: 1) The effect of the exchange rate variable on ZIS has decreased evenly from period 3 to 10. 2) The effect of the exchange rate variable on inflation has increased in each period slowly. 3) The effect of the exchange rate variable on the exchange rate itself the higher the period (until the 10th period) the smaller the effect. 4) The effect of the exchange rate variable on GDP, fluctuates every period.

Table 9. Variance Decomposition (VD) Results – GDP

Period	Response of LOG (GDP)				
	S.E	ZIS	INFLATION	EXCHANGE RATE	GDP
1	1.147237	0.263175	11.85404	2.677975	85.20481
2	1.621262	0.382309	11.65707	2.606674	85.35395
3	1.983027	0.398557	11.50760	2.600201	85.49364
4	2.286775	0.409698	11.36333	2.597914	85.62906
5	2.553275	0.414866	11.22410	2.599602	85.76143
6	2.793255	0.417866	11.08818	2.602754	85.89120
7	3.013086	0.419465	10.95514	2.606807	86.01859

8	3.216929	0.420232	10.82468	2.611373	86.14372
9	3.407680	0.420441	10.69663	2.616259	86.26667
10	3.587450	0.420267	10.57088	2.621344	86.38751

Source: Processed Results Eviews 12

Based on the results of variance decomposition testing on the GDP variable, it shows: 1) The influence of the GDP variable on ZIS fluctuates in each period. 2) The influence of the GDP variable on inflation the higher the period (until the 10th period) the smaller the influence. 3) The influence of the GDP variable on the exchange rate is in balance (until the 10th period). 4). The influence of the GDP variable on GDP itself is experiencing the higher the period (until the 10th period) the greater the influence.

a. The Effect of Inflation on ZIS Fund Collection

Based on the tests that have been carried out, the inflation variable in the short term inflation has a negative and significant effect on the collection of ZIS funds. These results are in line with research conducted by Ramdani Saadillah, Kusnendi, and Firmansyah which states that inflation has no negative and significant effect on the amount of zakat. (Saadillah et al., 2019) Meanwhile, in the long run inflation has a positive and significant effect on the collection of ZIS funds. Thus H1 is accepted. These results are not in line with previous research conducted by Halimatussa'idah and Ari Prasetyo which states that inflation has a negative and significant effect on the collection of funds at Baznas. (Halimatussa'idah & Prasetyo, 2021) However, these results are in line with previous research conducted by Eris Munandar and Mulia Amirullah which states that the inflation rate has a positive influence on ZIS revenues in Baznas. inflation rate has a contributive effect on ZIS revenues in Baznas. One indicator is because the amount of money in circulation has increased, as a result national income has also increased significantly. Along with this condition, people will earn more income than before, so the ability to pay ZIS, especially through Baznas, tends to increase. This study provides reinforcement to the conclusion explained by stating that inflation contributes to increasing ZIS revenue. This occurs along with the increase in income earned by the community as a result of the increase in the amount of

money in circulation, so that the ability of the community to channel ZIS through Baznas has increased. (Munandar & Amirullah, 2021)

b. The Effect of Exchange Rate on ZIS Fund Collection

Based on the tests that have been carried out, the long-term exchange rate variable has a negative and significant effect on ZIS Fund Raising. Thus H2 is accepted. These results are in line with previous research conducted by Sheema Haseena Armina and Alvira 'Aina A'yun stating a significant effect on the collection of ZIS funds. (Armina & A'yun, 2019) This has a good impact on people with dollar-shaped income so that the exchange rate against the dollar that increases also increases the amount of zakat that must be paid. While in the short term the exchange rate has no effect on the collection of ZIS funds. These results are in line with the research of Dina Islamiaty et al. (Islamiyati & Hany, 2019) which states in his research explains the same that the exchange rate variable has no significant effect on the collection of zakat at BAZNAS.

The increase in the exchange rate of the US dollar against the rupiah only increases the income of people who earn in dollars. For them, the increase in the exchange rate is a blessing because the income earned becomes greater, the increase in income is what has an impact on increasing the obligation of zakat paid. Whereas the majority of Indonesian people work in the country, whose income calculation is in the form of rupiah, the increase in exchange rates actually affects the income earned and the amount of spending on basic needs that occur increases, and can reduce the amount of zakat collection. This factor is one of the reasons why the exchange rate does not have a significant influence on the collection of zakat.

c. The Effect of Gross Domestic Product (GDP) on ZIS Fund Collection

Based on the tests that have been carried out, the GDP variable in the long term has a negative and insignificant effect on ZIS Fund Raising, and in the short term there is a positive and significant effect. Thus H3 is rejected. These results are in line with the research of Bintis Ti'anutud Diniati which states that GDP has a positive and significant effect on the collection of zakat in the short term. (Diniati, 2021) This impact can come from operations that help increase the

goods and services produced in the country, increase labor use and income and often also help increase exports. And the value of production it contributes needs to be counted in national income. From this income, people are able to fulfill their needs and save. When the income or property owned has reached nishab and haul, it is obligatory to pay zakat. And in the long term, which is not significant, it can be assumed that there is a lack of public awareness of the obligation to pay zakat even though income is increasing, so that not all surpluses are allocated for zakat and people to pay zakat including individual obligations, so there is no need to wait for economic growth to rise first as a whole to make zakat payments.

CONCLUSION

This research aims to see the relationship between inflation, exchange rates, and GDP on the collection of ZIS funds for the period 2005-2023 using the Vector Error Correction Model (VECM) approach. Based on tests that have been carried out Inflation variables in the short term inflation has a negative and significant effect on the collection of ZIS funds. While in the long term inflation has a positive and significant effect on the collection of ZIS funds. Based on the tests that have been carried out, the exchange rate variable in the long term has a negative and significant effect on the collection of ZIS funds. While in the short term the exchange rate has no effect on the collection of ZIS funds. Based on the tests that have been carried out, the GDP variable in the long term has a negative and insignificant effect on ZIS Fund Raising. While in the short term there is a positive and significant influence.

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Thank you for submitting the manuscript "**Determinants of Macroeconomic Indicators on The Level Of Collection Of Zakat, Infaq, Shodaqoh, (ZIS) Funds In Baznas 2005-2023 VECM Approach**". Your Manuscript ID is **309**.

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