

THE INFLUENCE OF INFLATION, GOVERNMENT SPENDING AND UNEMPLOYMENT RATE ON ECONOMIC GROWTH IN INDONESIA, 2001-2021(PUBLIC SECTOR CASE STUDY)

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ABSTRACT

This study aims to examine the effect of inflation, government spending, and the unemployment rate on economic growth in Indonesia. The data used in this research is secondary data. The population in this study was 34 provinces using a saturated sample technique. The data analysis method in this study uses multiple linear regression analysis with panel data. The results showed that partial inflation and government spending had a positive and significant effect on economic growth in Indonesia, while the unemployment rate had a negative and significant effect on economic growth in Indonesia. Simultaneously inflation, government spending, and the unemployment rate had a positive and significant effect on economic growth in Indonesia.

Keywords: Inflation, Government Expenditure, Unemployment Rate, and Economic Growth.

1. INTRODUCTION

The aim of economic growth is to increase national income and increase productivity. A country is considered successful or not in solving its own country's economic problems can be seen from the country's macro and micro economy. The economic growth of a country or a region that continues to show improvement illustrates that the economy of the country or region is developing well(Hasibuan et al., 2022).

According toSukurno, (2019)Economic growth is a picture of economic development in a certain period when compared to the previous period and this development is expressed in the form of the percentage change in national income in a period compared to the previous period. High and sustainable economic growth is the main condition of necessity for the continuity of economic development and increased welfare. Because the population increases every year and by itself the need for daily consumption also increases every year, an additional income is needed every year(Hartati, 2020). High economic growth will increase investment so that development occurs in various regions.

The high number of unemployed can have a negative impact on the economy. Unemployment will become a burden not only for the government, but also affect families, the environment, and so on. If the number of unemployed is low, indirectly the number of workers who work increases. This can reflect good economic growth, and can reflect an increase in the quality of life of the population, therefore the welfare of the population increases(Widayati et al., 2019).

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	Table 1.1						
Int	Inflation, Unemployment Rate and Economic Growth in Indonesia in 2012-2021						
Year	Inflation (%)	Government Spending (in million rupiah)	Unemployment Rate	Economic growth			
2012	```	212 452 071	(%)	(%)			
2012	4.30	212,452,971	6,13	6,23			
2013	8,38	237,336,479	6,17	5.78			
2014	6,23	261,712,905	5.94	5.02			
2015	3.35	277,595,814	6,18	4.79			
2016	3.02	297,851,059	5,61	5.02			
2017	3.61	349,611,545	5.50	5.07			
2018	3,13	358,180,434	5.30	5,17			
2019	2.72	396,055,586	5,23	5.02			
2020	1.68	407,167,366	7.07	-2.07			
2021	1.87	406,537,379	6,49	3.69			

Source: Central Bureau of Statistics, data processed (2022)

Based on the table above, it can be seen that there was an increase in the inflation rate in 2012 and 2013 by 4.08 percent, government spending also increased by 24,884 billion and the unemployment rate also increased by 0.04 percent, but economic growth decreased by 0. 76 percent. In 2014 and 2015 the inflation rate decreased drastically from 6.23 percent to 3.35 percent, but government spending increased by 15,883 billion, the unemployment rate also increased by 1.76 percent resulting in a decline in economic growth from the previous 5, 02 percent to 4.79 percent.

1.1.Inflation

Inflation is one of the most important factors affecting a country's economic growth. According toBoediono (2014)Inflation is a symptom in which the general price level increases continuously. An increase in the price of just one or two goods cannot be called inflation, unless the increase extends to (or results in an increase in) most of the prices of other goods.

1.2.Government Expenditures

Government spending is also one of the indicators that affect economic growth, according toSukurno (2019)Government spending is a government action to regulate the course of the economy by determining the amount of government revenue and expenditure each year, which is reflected in the APBN document for the national and APBD for the region or region. Besides being determined by the amount of government spending, the success of the development of a region is also influenced by the amount of investment.

1.3. Unemployment Rate

Unemployment is a problem for all countries in the world. The high unemployment rate will disrupt the country's national stability. So that each country tries to maintain the unemployment rate at a reasonable level. The problem of unemployment has always been a difficult problem to solve in every country. This is because the population is increasing every year, which will lead to an increase in the number of job seekers, and along with that the workforce will also increase. If the workforce cannot be absorbed into the workforce, they will be classified as unemployed.

1.4.Economic growth

According toSukurno, (2019)Economic growth is a picture of economic development in a certain period when compared to the previous period and this development is expressed in the form

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of the percentage change in national income in a period compared to the previous period. High and sustainable economic growth is the main condition of necessity for the continuity of economic development and increased welfare.

2. LITERATURE REVIEW

The locations in this research were conducted in all provinces in Indonesia during the 2001-2021 period. According to(Sugiyono, 2015)explains that the object of research is the target to obtain the data and information needed for the problem under study. In this study, the objects of research were inflation (X1), government spending (X2), unemployment rate (X3), and economic growth (Y).

The population in this study were all provinces in Indonesia during the 2001-2021 period, totaling 34 provinces.

The type of research used is a quantitative approach. The data used is panel data for 34 provinces in Indonesia from 2001-2021. The type of data used is secondary data in the form of Provincial Gross Regional Domestic Product (GRDP) data, Inflation, Revenue and Expenditure Budget Reports of Provincial Governments throughout Indonesia.

Source of data obtained in this studythrough the website of the Central Statistics Agency (BPS), SIMREG (Regional Basic Data Information and Management System), as well as other sources such as journals, books, necessary scientific articles and other sources that can be used in this research.

The variable operational definition is this research variable, namely economic growthexpressed in percent units, data obtained from the official website of the Central Bureau of Statistics (BPS).Infalseexpressed in percent units, data obtained from the official website of the Central Bureau of Statistics (BPS). Government spending is expressed in units of billions of rupiah, data obtained from the official website of the Central Statistics Agency (BPS).Unemployment rateexpressed in percent units, data obtained from the official website of the Central Bureau of Statistics (BPS).

The data analysis method used in this study is panel data regression analysis. Panel data regression analysis is a statistical technique that is measured through parameter coefficients, to be able to find out how much influence the independent variables have on the dependent variable. The panel data regression equation is formulated as follows:

$$Y = \alpha + \beta 1 Inf + \beta 2 PP + \beta 3$$

Information:

- Y : Economic growth
- α : Constant
- $\beta 1, \beta 2, \beta 3$: Regression Coefficient
- inf : Inflation
- pp Government Spending
- TP : Unemployment Rate
- e : Residual error (Coefficient of Error)

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3. RESULTS AND DISCUSSION

The normality test is a test conducted to see whether the data is normally distributed or not. A good data is data that is normally distributed or data that is close to normal so that it is feasible to be tested statistically(Ghozali, 2016). In this study, to see whether or not a data is normal, you can use the Jarque-Bera test model with a significance level of $\alpha = 5\%$. Following are the results of the Jarque-Bera test in this study:

3.1.Test Normality

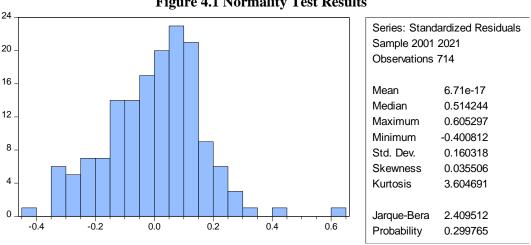


Figure 4.1 Normality Test Results

Source: Research Results (2022)

Based on the picture above, it can be seen that the probability value in the Jarque-Bera test is 0.299765 and the standard error tolerance is 5%. From the results of the statement above, it can be concluded that the data in this study are normally distributed provided that the probability value is > 0.05.

3.2.Heteroscedasticity Test

Table 4.2
eteroscedasticity Test Results

Heteroscedasticity Test Results					
Variables coefficient std. Error t-Statistics Prob.					
С	1.728968	0.430883	4.012615	0.0001	
Inflation	-0.039984	0.024651	-1.622013	0.1052	
Government Spending	0.032877	0.036820	0.892906	0.3722	
Unemployment Rate	0.009406	0.023544	0.399528	0.6896	
Sourcet Becomet Becylte (2022)					

Source: Research Results (2022)

Based on the table above, it can be seen that the significance value for each research variable is as follows:

- a. The significance value for the inflation variable (X1) is 0.1052 > 0.05 so that inflation is declared not to have symptoms of heteroscedasticity.
- b. The significance value for the government expenditure variable (X2) is 0.3722 > 0.05 so that



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government spending is declared not to have symptoms of heteroscedasticity.

c. The significance value for the unemployment rate variable (X3) is 0.6896 > 0.05 so that the unemployment rate does not show symptoms of heteroscedasticity.

3.3. Multicollinearity Test

Multicollinearity Test Results				
	Inflation	Government	Unemployment	
	IIIIation	Spending	Rate	
Inflation	1.000000	0.187923	0.213254	
Government	0.187923	1.000000	0.291829	
Spending	0.167925	1.000000	0.291829	
Unemployment Rate	0.213254	0.291829	1.000000	
		1 D 1 (0000)		

Table 4.3	
Multicollinearity Test R	esult

Source: Research Results (2022)

Based on the table above, it can be concluded that this study is free from multicollinearity problems, because the results of research between independent variables do not exceed 0.8. 3.4. Autocorrelation test

1 able 4.4					
Autocorrelation Test Results					
R-squared	0.065	Mean dependent var	3.04		
_	923	_	4680		
Adjusted R-squared	0.061	SD dependent var	3.15		
	976	_	9364		
SE of regression	3.059	Sum squared residue	6647		
	896	_	702		
F-statistics	16.70	Durbin-Watson stat	1.36		
	292		0145		
Prob(F-statistic)	0.000				
	000				

Table 4 4

Source: Research Results (2022)

One way to detect the presence or absence of autocorrelation can be seen by performing the Durbin-Watson test (DW test). Based on the table above, it is knownDurbin-Watson value in this study is equal to1.360145. This value is between the tolerance values in the autocorrelation test, namely -2 and 2. It can be concluded that this study is free from autocorrelation symptoms, because the Durbin-Watson value is between -2 and 2.

Model selection in panel data regression analysis was carried out to obtain the best model between the Common Effect Model (CEM), Fixed Effect Model (FEM) and also Random Effect Model (REM). The selection of the panel data regression model can be done by means of the chow test (chow test) and the hausman test (hausman test).

The chow test (Chow Test) is a test conducted to select the best model between the Fixed Effect Model (FEM) and the Common Effect Model (CEM). According toGujarati and Porter (2012)said that the basis for making decisions on the Chow test is by looking at the probability value. If the Chow test results are significant (probability <0.05) then the selected model is FEM and vice versa. The results of the chow test in this study can be seen in the table below:

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Chow Test Results				
Effect Test	Statistics	df	Prob	
Cross-section F	2.613891	(33,677)	. 0.0000	
Chi-square cross-sections	85.626700	33	0.0000	

Source: Research Results (2022)

Table 45

Based on the table above, it can be seen that the valuethe probability on the chow test is equal to0.0000. This value is below the standard error tolerance value in this study, which is 0.05. Therefore, based on the results of the Chow test the best model in this study is the Fixed Effect Model (FEM), so it is necessary to do the Hausman test to choose the best model between the Fixed Effect Model (FEM) and the Random Effect Model (REM).

To determine the best model between FEM or REM with the Hausman test. The basis for making decisions on the Hausman test is by looking at the valueprobability, if the Hausman test results are significant (probability <0.05) then the selected model is FEM and vice versa. The results of the Hausman test in this study are as follows:

Table 4.6

Н	ausman Test Results		
Test Summary	Chi-Sq.	Chi-Sq. df	Prob
	Statistics		
Random cross-sections	5.830632	3	0.12 01

Source: Research Results (2022)

Based on the table above, it can be seen that the valuethe probability on the hausman test is 0.1201. This value is below the standard error tolerance value in this study, which is 0.05. Therefore, based on the results of the Hausman test, the best model in this study is the Random Effect Model (REM), so it is necessary to do the LM test to choose the best model between*Common Effects Model*(CEM) and Random Effect Models (REM).

The LM test or also known as the Lagrangian Multiplier Test is a test to select the best model between the Common Effect Model (CEM) and Random Effect Model (REM). According toGujarati and Porter (2012)said that the basis for making decisions on the LM test is by looking at the probability value. If the Breusch-Pagan cross section value is > 0.05, so the model used is the common effect modeland vice versa. The results of the LM test in this study can be seen in the table below:

LM Test Results				
	Cross-section	Test Hypothesis Time	Both	
Breusch-Pagan	29.91178	665.2474	695.1592	
	(0.0000)	(0.0000)	(0.0000)	
Honda	5.469166	25.79239	22.10526	
	(0.0000)	(0.0000)	(0.0000)	
King-Wu	5.469166	25.79239	23.71185	
	(0.0000)	(0.0000)	(0.0000)	
Standardized Honda	5.864837	27.36581	18.13447	
	(0.0000)	(0.0000)	(0.0000)	
Standardized King-Wu	5.864837	27.36581	20.00055	

	Table	e 4. 7
T	M Test	Results

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	(0.0000)	(0.0000)	(0.0000)
Gourieroux, et al.	-	-	695.1592
			(0.0000)

Source: Research Results (2022)

Based on the table above, it can be seen that the value of Both*Breusch-Pagan*on the LM test of 0.0000. This value is less than 0.05, so it can be concluded that the best model used in this study is *Random Effects Model*(BRAKE).

Based on the selection of the above models, the best model used in this study is *Random Effects Model*(BRAKE). Following are the results of panel data regression with *Random Effects Model*(BRAKE) that is:

Table 4.8

Table 4.0						
Panel Data Regression Estimation Results with Random Effects Model(BRAKE)						
coeffici	std.	T-	Prob.			
ent	Error	Statistics				
0.7133	0.6948	1.0266	0.3049			
70	38	71				
0.1374	0.0347	3.9506	0.0001			
48	92	02				
0.3182	0.0568	5.6016	0.0000			
16	07	69				
-	0.0371	-	0.0449			
0.074551	03	2.009316				
0.0659	Mean D	Dependent Var	3.0446			
23			80			
0.0619	SD De	pendent Var	3.1593			
76		_	64			
3.0598	Sun	n Squared	66477			
96	Resid	Residence				
16.702	Durbin-Watson Stat		1.3601			
92			45			
0.0000						
00						
	Estimation Res coeffici ent 0.7133 70 0.1374 48 0.3182 16 - 0.074551 0.0659 23 0.0619 76 3.0598 96 16.702 92 0.0000	Estimation Results withRandom coeffici std. ent Error 0.7133 0.6948 70 38 0.7133 0.6948 70 38 0.1374 0.0347 48 92 0.3182 0.0568 16 07 - 0.0371 0.074551 03 0.0659 Mean D 23 0.0619 SD De 76 3.0598 Sum 96 Resid 16.702 Durbin 92 0.00000	Estimation Results withRandom Effects Model coeffici std. T- ent Error Statistics 0.7133 0.6948 1.0266 70 38 71 0.1374 0.0347 3.9506 48 92 02 0.3182 0.0568 5.6016 16 07 69 - 0.0371 - 0.074551 03 2.009316 0.0659 Mean Dependent Var 23 0.0619 SD Dependent Var 76 - - 16.702 Durbin-Watson Stat 92 - - 0.0000 - -			

Source: Research Results (2022)

Based on the table above, the regression equation in this study is as follows: Y =0.713370+0.137448 Inf+0.318216 PP-0.074551 TP

Information:

- Y = Economic Growth
- inf = Inflation
- pp =Government Spending
- TP =Unemployment Rate

3.5.Hypothesis Testing

Partial Test Results (T-Test)

1. Effect of Inflation on Economic Growth

Based on the test results using the Eviews 12 application, it is known that the tcount value of inflationas big 3.950602 with a significant 0.0001. The ttable value in this study is calculated by df = 714-4 which is 1.963311 with a significance of 0.05. Judging from the value of tcount 3.950602> ttable 1.963311 and a significant value of 0.0001 < 0.05. Then the H1 decision is accepted, so it can

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be concluded that inflation positive and significant effect on economic growth in Indonesia.

2. Effect of Government Spending on Economic Growth

Based on the test results using the Eviews 12 application, it is known that the tcount value of government spending big 5.601669 with a significant 0.0000. The ttable value in this study is calculated by df = 714-4 which is 1.963311 with a significance of 0.05. Judging from the value of tcount 5.601669> ttable 1.963311 and a significant value of 0.0000 <0.05. Then the decision H2 is accepted, so it can be concluded that government spending positive and significant effect on economic growth in Indonesia.

3. Effect of Unemployment Rate on Economic Growth

Based on the test results using the Eviews 12 application, it is known that the tcount value of unemployment rateas big-2.009316significantly0.0449. The ttable value in this study is calculated by df = 714-4 which is 1.963311 with a significance of 0.05. Judging from the value of tcount-2.009316< ttable 1.963311 and significant value0.0449< 0.05. Then the decision H3 is accepted, so it can be concluded that unemployment ratenegative and significant effect on economic growth in Indonesia.

Simultaneous Test Results (Test F)			
R-squared	0.065	Mean dependent var	3.04
	923	_	4680
Adjusted R-squared	0.061	SD dependent var	3.15
	976	_	9364
SE of regression	3.059	Sum squared residue	6647
	896	_	702
F-statistics	16.70	Durbin-Watson stat	1.36
	292		0145
Prob(F-statistic)	0.000		
	000		
	0 D 1 D	1 (2022)	

Simultaneous Test (F-Test)

Table 4.10 Simultaneous Test Results (Test F

Source: Research Results (2022)

Based on the test results. it is known that the Fcount value is 16.70292 significantly 0.000000. The Ftable value in this study is calculated by df = 714-4 which is 2.384476 with a significance of 0.05. Judging from the value of Fcount16.70292> Ftable 2.384476 and significant value0.000000< 0.05. Then the H4 decision is accepted, so it can be concluded that the variables of inflation, government spending, and the unemployment rate together have a significant effect on economic growth in Indonesia. 3.6.Discussion

Effect of Inflation on Economic Growth

Based on the test results, it is known that the tcount value of inflationas big3.950602with a significant 0.0001. The ttable value in this study is calculated by df = 714-4 which is 1.963311 with a significance of 0.05. Judging from the value of tcount3.950602> ttable 1.963311 and a significant value of 0.0001 <0.05. Then the H1 decision is accepted, so it can be concluded that inflation positive and significant effect on economic growth in Indonesia.

Effect of Government Spending on Economic Growth

Based on the test results, it is known that the tcount value of government spending big 5.601669 with a significant 0.0000. The ttable value in this study is calculated by df = 714-4 which is 1.963311 with a significance of 0.05. Judging from the value of tcount 5.601669 > ttable 1.963311 and a significant value of 0.0000 < 0.05. Then the decision H2 is accepted, so it can be



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concluded thatgovernment spendingpositive and significant effect on economic growth in Indonesia.

Effect of Unemployment Rate on Economic Growth

Based on the test results, it is known that the tcount value of unemployment rate big-2.009316 significantly 0.0449. The ttable value in this study is calculated by df = 714-4 which is 1.963311 with a significance of 0.05. Judging from the value of tcount-2.009316< ttable 1.963311 and significant value 0.0449< 0.05. Then the decision H3 is accepted, so it can be concluded that unemployment ratenegative and significant effect on economic growth in Indonesia.

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Based on results. is known that the Fcount the test it value is 16.70292 significantly 0.000000. The Ftable value in this study is calculated by df = 714-4 which is 2.384476 with a significance of 0.05. Judging from the value of Fcount16.70292> Ftable 2.384476 and significant value0.000000< 0.05. Then the H4 decision is accepted, so it can be concluded that the variables of inflation, government spending, and the unemployment rate together have a positive and significant effect on economic growth in Indonesia.

4. CONCLUSION

Based on the results of the research and discussion described above, the researchers draw the following conclusions:

- 1. Inflation has a positive and significant effect on economic growth in Indonesia.
- 2. Government spending has a positive and significant effect on economic growth in Indonesia.
- 3. The unemployment rate has a negative and significant effect on economic growth in Indonesia.
- 4. Inflation, government spending, and the unemployment rate together have a positive and significant effect on economic growth in Indonesia and spur overall economic growth.

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