by Elvira Yahya

Submission date: 11-Dec-2021 12:15PM (UTC+1100)

Submission ID: 1727142254

File name: Article English.docx (42.87K)

Word count: 2662

Character count: 14626

Elvira Yahya Fahrudin Zain Olilingo Ivan Rahmat Santoso

Faculty of Economics, Department of Economics, State Units rsity of Gorontalo Corresponding Author: ivan santoso@ung.ac.id

This study aims to determine the effect of investment and exports on GRDP in Gorontalo poince. The data used in this study is secondary data in the form of data from 6 regencies/cities (Boalemo Regency, Gorontalo Regency, Pohuwato Regency, Bone Bolango Regency, North Gorontalo Regency and Gorontalo City) which in the 1015-2019 period were sourced from BPS (Central Bureau of Statistics). The method used in this study is multiple linear regression analysis using panel data. The results of the analysis show that the investment variable has a positive and significant influence on the GRDP of Gorontalo Province. This means that investment in Gorontalo Province can increase GRDP significantly from 2015-2019. It is so to be significant because investment is an indicator of economic growth as well as expenditures to buy capital goods and production equipment with the aim of replacing and especially increasing capital goods in the economy that will be used to produce goods and services in the future. front. The net export variable has a positive and significant influence on the GRDP of Gorontalo Province, meaning that net exports in Gorontalo Province can increase GRDP significantly from 2015-2019. It is said to be significant because net exports are an important factor in increasing regional and state economic growth. Investment and export variables simultaneously have an influence on the GRDP of Gorontalo Province.

Keywords: GRDP, Investment, Export

INTRODUCTION

The benchmark of a country's economic growth can be seen from its ability to product goods and services. One of them can be seen from the national income. National income is the value of goods and services produced by a country in a certain period of time, usually one year. This calculation of national income aims to get an idea of the economic level that has been achieved and the value of the output produced. If you want good economic growth, then the country concerned must also increase the physical production of both goods and services (Sahi et al., 2020). Production must increase because the population also continues to increase so that the standard of living of the people does not decrease. It is also said that there is a positive relationship between the production factors used, the more supported by good social justice and sophisticated technology, the higher the national income. According to the views of classical economists, there are four factors that influence economic growth, namely population, total stock of capital goods, land area and natural wealth from the level of technologs used.

Investment plays a very important role in the development process of many countries in the world, as well as in Indonesia (Istiqomah et al., 2019) and is one of the determinants of economic growth that is able to encourage a significant increase in output and increase demand for inputs, one of which is labor. (Sasana, 2019). The amount of investment will affect job opportunities and increase labor absorption so that community welfare is achieved due to the increase in income received by the community, as well as an indicator of the economic growth and development of a region and is a 2ctor that affects economic development. As one of the factors that affect employment opportunities, investment can be interpreted as spending and spending on investment or companies to buy capital goods and production equipment to increase the ability to produce goods and services available in the economy (Tiffen & Mortimore, 1994). In addition to maximizing investment output, it also determines the distribution of labor and income distribution as well as the quality of the population and technology.

Investment and exports play an important role in the economic activities of a country or region. Exports will generate foreign exchange which will be used to finance imports of raw materials and capital goods to meet and create added value (Asbiantari et al., 2016; Mohamed, 2017). Aggregation of added value generated by all production units in the economy is the value of Gross Domestic Product (GDP). The greater the added value produced in an item, the greater the income obtained by the community. The amount of added value obtained by a country or region in exporting goods will certainly accelerate a region to develop rapidly because GDP increases. Several previous studies have discussed the relationship between investment and exports to GRDP (Abdulla & Ali, 2019; Kartikasari, 2017). Some of these findings indicate that investment and exports have a correlation with GRDP. With the relationship of these three variables will have an impact on the economy a region. Because by increasing the GDP of a region, it will increase investment and exports. This study aims to investigate the effect of investment and exports on economic growth and how big they are.

RESEARCH METHOD

This study uses a quantitative approach using panel data over a period of time (time series). This study was conducted in Gorontalo Province, which consists of 5 regencies 1 city, which is divided into several regions, namely Gorontalo Regency, Boalemo Regency, North Gorontalo Regency, Bone Bolango Regency, Pohuwato Regency and Gorontalo City. The data objects in this study consist of GRDP, Investment and Export data. The type of data to be used is secondary data and is obtained through data published on 4 he official website of the Central Statistics Agency (BPS) of Gorontalo Province. The data used is panel data based on 5 districts and 1 city in Gorontalo Province and foliame Series data used data from 2015-2019. The analysis technique used is quantitative analysis, the analytical method used is multiple linear regression analysis using panel data (Chamberlain, 1982). In estimating regression model with panel data, there are three approaches that are often used, namely the Common Effects model, Fixed Effect model, and Random Effect model.

RESULTS AND DISCUSSION

Base 27 in the Chow and Hausman tests, the best panel data regression model was determined using **FEM**. The results of the estimation of the regression model and the selection of panel data above, then the results of the panel data regression analysis using the Fixed Effects Model (REM) model. The estimated output using FEM is presented in the table below:

1	able	1.	FEM.	Estimation	output

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	-1026676.	337218.5	-3.044542	0.0059
				***0.000
INVEST	4.845214	0.135531	35.74986	0
				***0.000
NetEKS	1.822238	0.438236	4.158117	4
R-squared	0.999243	F-statistic		4149.434
Adjusted R-				***0.000
squared	0.999002	Prob(F-sta	0	

Information: Sig Level: *** = 1%; ** = 5%; end * = 10%.

Source: Output Eviews 9

Based on the sults of the output of the FEM model in Table 1, it can be seen that: (1) the Investment variable has a positive effect on the Economic Growth of Gorontalo Province, this means that for every additional 1% of investment the value of Gorontalo Province's Economic Growth will increase by 4.845214; (2) Export variable has a positive effect on the Economic Growth of Gorontalo Province, this means that for every additional 1% of Export, the value of Gorontalo Province's Economic Growth will increase by 1.822238.

Partial Test

The t-test is u[20] to determine how far one independent variable individually an explain the dependent variable. Based on Table 1 above, it can be seen that: (1) Investment has a significant

effect on the Economic Growth of Gorontalo Province, because the Prob value of Investment is smaller than the Sig level. (0.01) so that H₀ is accepted. Exports have a significant effect on the economic growth of Gorontalo Province, because the value of Prob from exports is smaller than the level of Sig. (0.01) so that H₀ is accepted.

Simultaneous Test (f)

The F test is used to determine wheth 3 the independent variables jointly significantly affect the dependent variable. Based on Table 1, the p-value is less than the value of the significance level (a=0,01). This means that the independent variables jointly affect the dependent variable.

Multicollinearity Test 6

Multicollinearity Test Aims to test whether there is a high or perfect correlation between the independent variables contained in the regression model. A good regression model should not have a correlation between the independent variables.

Table 2. Multicollinearity Test

	INVEST	EKS
INVEST	1.000000	-0.821095
NetEKS	-0.821095	1.000000

Source: Output Eviews 9

From table 2 above, it can be seen that the value of the correlation coefficient between the independent variables is below 0.80, thus the data in this study does not have multicollinearity problems.

DISCUSSION 26

After testing the hypothesis and estimation on the model, it will be studied further on the effect of Investment and Export on the economic growth of Gorontalo Province. Below are the test results of each independent variable on the economic growth of Gorontalo Province in 2015-2019.

The Effect of Investment on the Economic Growth of Gorontalo Province in 2015-2019

Investment is defined as all expenditures on real capital goods. However, in everyday language investment also includes the purchase of assets. In general, investment spending is related to the management of existing resources to obtain future use or benefits. Nanga (Nanga, 2001) argues that investment is the company's overall expenditure which includes expenditures to purchase raw materials, machinery and factory equipment as well as all other capital equipment needed in the production process. In short, investment can be defined as a net addition to existing capital stock. Another term for investment is capital formation or capital accumulation. The test results show that the Investment variable has a positive and significant effect on the economic growth of Gorontalo Province, meaning that investment will significantly encourage economic growth. The sults of this study are in accordance with the hypothesis which explains that the investment variable has a positive and significant effect on the economic growth of the province of Gorontalo.

It is said to be significant because investment is an indicator of economic growth as well as expenditures to purchase capital goods and production equipment with the aim of replacing and especially increasing capital goods in the economy that will be used to produce goods and services in the future. Front. If the investment value is positive, then GRDP is positive, because to increase GRDP expand business fields, increase national income and increase the level of community prosperity. The results of this study relevant to the research (Karlita & Gunanto, 2013) which in his findings explains that investment has a significant and positive effect on the formation of the GRDP of the industrial sector of the city of Semarang, while labor and exports have no significant effect but have a positive effect on the GRDP of the industrial sector of the city of Semarang.

The Effect of Exports on the Economic Growth of Gorontalo Province in 2015-2019

Export has a very big role for the economy of a nation. According to mercantilism, to be rich a country must export more than it imports. For developing countries, exports can create job opportunities, generate foreign exchange that can be used to import various kinds of foreign products that have not been produced domestically. Foreign trade occurs because not all countries are unable

to produce the goods and services they need. This form of foreign trade is export and import. Exports are goods and services that are produced domestically and purchased by foreigners. Another theory says that all goods and services produced and then sold to other countries / abroad can be counted as part of income because these activities generate income for the producing country.

Exports are economic expenditures that have a positive effect on the country's economic activities because they are expenditures by residents of other countries on goods produced domestically. The value of expenditures by residents of other countries on goods produced domestically. The value of exports that have been reduced by the value of imports is called net exports. The test results show that the export variable has a positive and significant influence on the economic growth of Gorontalo Province, meaning that exports in Gorontalo Province can increase the value of economic growth significantly. Se results of this study are in accordance with the hypothesis which explains that the export variable has a positive and significant impact on the economic growth of the province of Gorontalo. It is said to be significant because exports are an important factor in stimulating the economic growth of a region or a country. Exports will increase the consumption capacity of a country, increase world output, and provide access to scarce resources and potential international markets for various export producto without which poor countries will not be able to develop, activities and national economic life. The results of this studio upport research (Astuti & Ayuningtyas, 2018; Febiyansah, 2017; Fouad, 2005) where there is an effect of ex 23 ts on economic growth, but contrary to the findings (Kalaitzi & Cleeve, 2017; Kim & Lin, 2009) who found that exports had a negative impact on economic growth.

CONCLUSION

Based on the results of the research 17d discussion above, the researchers describe the following conclusions: (1) Investment variables have a positive and significant impact on the GRDP of Gorontalo Province. This means that investment in the province of Gorontalo can significantly increase economic growth from 2015-2019. (2) The net export variable has a positive and significant impact on the GRDP of Gorontalo Province. This means that net exports in the province of Gorontalo can significantly increase economic growth from 2015-2019. (3) Investment and export variables simultaneously have an influence on the GRDP of Gorontalo Province.

REFERENCES

- Abdulla, S., & Ali, H. (2019). An Analysis of Exports and Imports and Their Effect on the Economic Growth in Iraq. *UKH Journal of Social Sciences*, 3(2), 68–76. https://doi.org/10.25079/ukhjss.v3n2y2019.pp68-76
- 2. Asbiantari, D. R., Hutagaol, M. P., & Asmara, A. (2016). Pengaruh Ekspor Terhadap Pertumbuhan Ekonomi Indonesia. *Jurnal Ekonomi Dan Kebijakan Pembangunan, 5*(2), 10–31.
- Astuti, I. P., & Ayuningtyas, F. J. (2018). Pengaruh Ekspor Dan Impor Terhadap Pertumbuhan Ekonomi Di Indonesia. Jurnal Ekonomi & Studi Pembangunan, 19(1), 1–10.
- Chamberlain, G. (1982). Multivariate regression models for panel data. *Journal of Econometrics*, 18(1), 5–46. https://econpapers.repec.org/RePEc:eee:econom:v:18:y:1982:i:1:p:5-46
- Febiyansah, P. T. (2017). Indonesia's FDI-exports-GDP growth nexus: trade or investment-driven? Buletin Ekonomi Moneter Dan Perbankan, 19(4), 469–488.
- 6. Fouad, A.-S. (2005). 76 Are Exports the Engine of Economic Growth? An Application of Cointegration and Causality Analysis for Eavpt, 1977 2003.
- Istiqomah, I., Wibowo, A., Yunianti, E., & Gunawan, D. (2019). DETERMINANTS OF GROSS REGIONAL DOMESTIC PRODUCT IN EASTERN INDONESIA REGION. TRIKONOMIKA, 18(1), 18– 24. https://doi.org/10.23969/trikonomika.v18i1.1233
- 8. Kalaitzi, A., & Cleeve, E. (2017). Export-led growth in the UAE: multivariate causality between primary exports, manufactured exports and economic growth. *Eurasian Business Review, 8*. https://doi.org/10.1007/s40821-017-0089-1
- Karlita, B. S., & Gunanto, E. Y. A. (2013). Pengaruh Investasi, Tenaga Kerja dan Ekspor Terhadap PDRB Sektor Industri di Kota Semarang (Tahun 1993 - 2010). *Diponegoro Journal of Economics*, 2(4), 1–8. http://eprints.undip.ac.id/40195/
- Kartikasari, D. (2017). The Effect of Export, Import and Investment to Economic Growth of Riau Island Indonesia. *International Journal of Economics and Financial Issues*, 7(4), 663–667.
- 11. Kim, D.-H., & Lin, S.-C. (2009). Trade and Growth at Different Stages of Economic Development. *The Journal of Development Studies, 45*(8), 1211–1224. https://doi.org/10.1080/00220380902862937
- 12. Mohamed, M. (2017). IMPACT OF EXPORTS AND IMPORTS ON ECONOMIC GROWTH: NEW

- EVIDENCE FROM PANAMA. Journal of Economic Growth, 1(2), 67.
- Nanga, M. (2001). Macroeconomic Theory, Problems and Policy (1st ed.). PT Raja Grafindo Persada.
- 14. Sahi, D. F., Arham, M. A., & Santoso, I. R. (2020). The Impact of Government Infrastructure Spending on Economic Growth and Poverty in Gorontalo Province. *Jambura Equilibrium Journal,* χ (1), 1–6. https://doi.org/10.37479/jej.v2i1.4494
- 15. Sasana, H. (2019). Fiscal Decentralization and Regional Economic Growth. *Economics Development Analysis Journal*, *8*(1), 108–119.
- Tiffen, M., & Mortimore, M. (1994). Malthus controverted: The role of capital and technology in growth and environment recovery in Kenya. World Development, 22(7), 997–1010. https://doi.org/https://doi.org/10.1016/0305-750X(94)90144-9

ORIGINALITY REPO			77,117 G	Orontaio Pro	VIIICC	
18% SIMILARITY INC)EX	17% INTERNET S	OURCES	7% PUBLICATIONS	6% STUDENT	PAPERS
PRIMARY SOURCE	5					
-	OSito et Sourc	ry.unair.	ac.id			1 %
	mitte nt Paper		versita	s Pelita Hara	apan	1%
	W.M r et Sourc	ije.com				1%
	ne-jc et Sourc	urnal.un	ja.ac.ic			1 %
	mitte nt Paper	ed to Uni	versity	of Hull		1%
	mitte nt Paper	ed to iGr	oup			1%
	iss.co					1%
	mitte nt Paper		versita	s Merdeka N	Malang	1%
\sim	cribc et Sourc	l.com				1 %

10	Athanasia S. Kalaitzi, Trevor W. Chamberlain. "Merchandise exports and economic growth: multivariate time series analysis for the United Arab Emirates", Journal of Applied Economics, 2020 Publication	1%
11	Submitted to Universitas Negeri Jakarta Student Paper	1 %
12	journals.christuniversity.in Internet Source	1 %
13	archive.org Internet Source	<1%
14	digilibadmin.unismuh.ac.id Internet Source	<1%
15	ojs.unm.ac.id Internet Source	<1%
16	jurnal.unej.ac.id Internet Source	<1%
17	Abdul Rashid, M. Kabir Hassan, Hafsa Karamat. "Firm size and the interlinkages between sales volatility, exports, and financial stability of Pakistani manufacturing firms", Eurasian Business Review, 2020 Publication	<1%
18	Submitted to Manchester Metropolitan University	<1%

19	Neli Aida, Fadeli Yusuf Afif, Tantri Siwi Peni. "Krisis Global dan Pertumbuhan Ekonomi di Indonesia", Jurnal Ekonomi Pembangunan, 2021 Publication	<1%
20	financial.ac.id Internet Source	<1%
21	repository.uinjkt.ac.id Internet Source	<1%
22	www.econstor.eu Internet Source	<1%
23	www.waifem-cbp.org Internet Source	<1%
24	download.atlantis-press.com Internet Source	<1%
25	escholarship.org Internet Source	<1%
26	ideas.repec.org Internet Source	<1%
27	jseg.ro Internet Source	<1%
28	library.wur.nl Internet Source	<1%



Exclude quotes Off

Exclude matches

Off

Exclude bibliography On

GRADEMARK REPORT	
FINAL GRADE	GENERAL COMMENTS
/0	Instructor
7 0	
PAGE 1	
PAGE 2	
PAGE 3	
PAGE 4	
PAGE 5	