Investment and Government Expenditure and Investment Economic Growth in Central Java, Indonesia

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Investment and Government Expenditure and Investment Economic Growth in Central Java, Indonesia

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Abstract: The role of government expenditure in economic growth is very important. The aim of this paper was to study the government expenditure and investment on economic growth in Central Java. The data used was the secondary data from 2000.1 to 2018.4. The analysis tool used was Error Correction Model (ECM). The test of cointegration testin seed Johansen test of cointegration which was used to test the presence of a long-term relationship in the variables economic growth, expenditure approach and investment. The analysis results using the regress method of Error Correction Model indicate that the effect of the variable of governme symmetry is positive and significant, both in the short and long term.

Keywords: Government Expenditure, Investment, Economic Growth, ECM

I. INTRODUCTION

Economic growth as a process of increasing output over time becomes an important indicator to measure the success of a country's development (1). Therefore, the identification of various influencing factors including the roles of government is interested to be studied more deeply.

One study that examined the roles of public sector to economic growth is Wagner which was then known as Wagner Law. In Wagner Law, the hypothesis is that goognment expenditure increases economic activity. The theory holds that for any country, that public expenditure resonantly as income growth expands. The law predicts that the development of anindustrial economy will be accompanied by an increased share of public expenditure in grossnational product. The basic idea is that goods and services are generally provided by the government sector, including the redistribution through transfers and the activities of public companies that generate

greater income levels(2). The school of economics that explains the roles of public sector on economic growth is Keynesian. Keynes said that government expendit ** would accelerate economic growth.

The relationship between economic growth and government expenditure, or more commonly the size of the public sector, becomes the important object to be analyzed and debated. The first controversy is whether the public sector can raise the long run steady state growth economy. In general, the depiction of public expenditures, namely physical infrastructure or human capital, can enhance growth. However, in financial sector, expenditure can particularly slow down the growth because of disincentive effect. In general, the impact depends on the trade-off between productive public expenditure and tax effects which are distortive.

Government expenditure as a real form of government intervention in economy has become an important object for the study. The studiesin European coantries wereconducted by(3). (3) proved the positive and significant effect of government expenditure on economic growth in the UK, Gern 14 and Ireland. The other research also showed that the expansion of government expenditure has positive effect on economic growth, such as the research of(4). On the other hand, there were also the studies that showed the significance of the relationship between both variables but with a pattern of relationships which tends to be negative. The research was conducted by (5)an (7)).

The aim of this research was to evaluate empirically the effect of government expenditure on econ 12 ic growth in Central Java. The structures of the paper are as follows: The second section discusses the literature review, the third section



discusses the methodology used in the research, the fourth section discusses the research results, and the fifth section is the conclusion.

II. LITERATURE REVIEW

From the research results, it was found that the roles of government expenditure to economic growth have no una primity. There were studies showing that the roles of government expenditure on economic growth have negative effects. On the other hand, there were studies showing that the roles of government expenditure on economic growth are positive.

The research results showing that government expenditureshave negative effect on economic growth were the research conducted by(6),(7).

that government expenditure has negative effect on economic growth, there werethe other researchers who argue that government expenditure has positive effect on economic growth since the state through policies can create productive sectors so as to encourage economic growth and can also reduce the unproductive sectors. The researches showing that government expenditure has positive effect on economic growth were conducted (2), (8), and (7), (9), (10).

III. RESEARCH METHOD

In this research, the data used were the secondary data published by the Central Statistics Agency (BPS). The data used were in the form of quarterly data from 2004.1 to 2018.4.

The empirical model used in this research was: $d(g) = \beta_0 + \beta_1 d(E_t) + \beta_2 d(I_t) + \beta_3 E_t(-1) + \beta_4 I_t(-1) + EC$ (1)

Where:g is economic growth, E_t is government expenditure, I_t is investment, ε_t is the residual value, and EC is E_t is the residual value.

The empirical analysis in this research is as follows; first, the root unit test was used to test data stationary. Secondly, cointegration testing was used to examine the long-term relationship of the variables of government expenditure, investment and output levels. Third, the analysis of the dynamic relationship between government expenditure, investment and output level was conducted using Error Correction Model.

IV. RESULTS AND DISCUSSION

After testing the unit root with the level of confidence of 5 per cent, the variable used in the research (LG, LE, LI) which is not stationary at zero degrees of I(0) is L(I). Therefore, the integration level test was conducted to determine in whatlevel the observed variables are stationary.

Next, the data was made to be stationary by first differencing. As the result, all the variables are stationary (integrated) in the first differencing of I(1).

The next step was test of cointegration test. The test of cointegration testing 5 ed Johansen test of cointegration which was used to test the presence of a long-term relationship in the variables LG, LE 21 LI. The result is that there is a cointegration between the variables in the long term.

The analysis results using the regression method of Error Correction Model indicate that the effect of the variable of government expenditure on output is positive and significant, both in the short and of the term. It supports the hypothesis of Wagner law that government expenditure has positive effect on output growth of. For the variable of investment, the results of gegression analysis show positive effect in both the short and long term.

The collective testing showed that the variables of government expenditure and investment has the effect on output. The value of the output variation 19 t can be explained by the variables of government expenditure and investment is 0.7435.

This result supports the Keynesian model. Based on the findings of the empirical analysis, the study recommends that capital government expenditure should be directed mainly to current productive economic activities in order to stimulate activities in the economic sectors

V. CONCLUSION

From the analysis results, it can be concluded that:

- The Pariable of government expenditure has positive effect on output in the short term and long term.
- The variable of investment has positive effect on output in the short term and long term.

Policy Implications

In Central Java, the role of government expenditure to output level of output is positive. This means that government expenditure is still needed to stimulate economic growth, particularly to encourage productive sectors.

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