

THE EFFECT OF ECONOMIC OPENNESS, DEMOCRACY, AND INSTITUTIONAL QUALITY ON INDONESIA EXPORTS TO ASEAN PLUS THREE

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ABSTRACT

The ASEAN Charter Agreement and the cooperation of the East Asia Free Trade Area ASEAN+3 provide momentum for ASEAN countries to increase economic openness, strengthen the application of democratic principles, and improve institutional quality to enhance trade cooperation. This study aims to explore the role of economic openness, democracy, and institutional quality in increasing Indonesia's exports to ASEAN countries plus three during the 1996-2017 period using the augmented gravity model. The results showed that the openness of ASEAN+3 to trade (trade% of GDP), democracy, and institutional quality of Indonesia and ASEAN+3 as Indonesia's export destination had positive effects in increasing Indonesia's exports to ASEAN+3. However foreign direct investment in Indonesia and ASEAN+3 does not affect the export.

Keywords: *Indonesia Trade Gravity Model, Economic Openness, Democracy, Governance Institution, Indonesia's export, ASEAN+3*

1. INTRODUCTION

The world economy underwent a fundamental change due to the impact of globalization which united the economies between countries to become integrated and interdependent. This dependence on its essence arises as a form of human consciousness to need one another because the scarcity of resources in the country is not enough to be able to overcome their needs. Therefore, openness to relationships between countries is believed to increase prosperity through international trade.

One of the integration efforts is the formation of trade blocks to reduce trade barriers between member countries to increase trade and accelerate economic growth. With this goal, the countries of Southeast Asia developed economic cooperation, especially trade in 1992 through the 4th ASEAN Summit in Singapore, which resulted in an agreement to realize the ASEAN Free Trade Area (AFTA) within a period of 15 years whose realization was accelerated to 2002. The objectives of AFTA: (1) Making the ASEAN region a competitive place of production so that ASEAN products have strong competitiveness in the global market, (2) Attracting more Foreign Direct Investment, and (3) Increasing trade between ASEAN members (Ministry of Trade, 2002). The ASEAN economic cooperation agreement has been expanded to reach the East Asia region by involving 3 Asian tiger countries namely China, South Korea, and Japan or better known as the ASEAN Plus Three (ASEAN +3) trade cooperation which was formed in 1997 in Malaysia when the region Asia is being hit by an economic crisis as an effort to develop economic cooperation. One agreement that was realized was the East Asia Free Trade (EAFTA) or free trade in the East Asian region (ASEAN Secretariat, 2018).

The development of the economic cooperation agreement shows that the countries of Southeast Asia and East Asia are increasingly integrated and interdependent with their neighbors. This can be seen from the economic openness shown by the level of trade openness and foreign direct investment (FDI). Trade openness is shown by the ratio of total exports and imports to gross domestic product (Mankiw, 2016). Based on data from the percentage of the trade-in Gross Domestic Product (GDP) from the World Development Indicator in 2018 shows the level of trade openness for ASEAN + 3 countries, Singapore is the country with the highest level of trade openness in ASEAN with an average above 300%. Then Malaysia, Thailand, Vietnam, Cambodia, and Brunei Darussalam whose average level of trade openness is above 100%. The Philippines, Laos, Myanmar, Indonesia, and South Korea have an average trade openness level of less than 100%. Meanwhile, China and Japan have an average openness level of less than 50%. In the Southeast Asian region, Indonesia's exports were mostly targeted at countries with economic openness levels above 100%.

Over the past decade trade statistics increased significantly with the value of goods exports of US\$ 2.6 billion and service exports of US\$ 703.2 billion in 2017. The following Graph 1.1 illustrates the development of the value of exports, imports, and trade balance in ASEAN over the years 2000 – 2017:

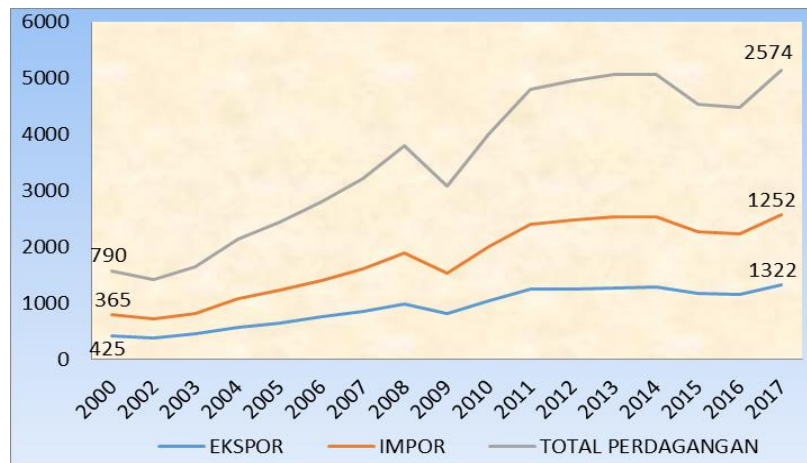


Figure 1. ASEAN Trade Trends 2000 – 2017 (Million USD)

Source: ASEAN Secretariat, 2018

Total trade in ASEAN increased almost 3.5 times from 2000 which was the only US \$ 790 billion to USD 2,574 billion in 2017. Exports consistently increased during this period, except in 2009 which had declined, and at the end of the year, 2017 reached USD 1,322 billion. At the same time, total goods imports reached USD 1,252 billion, but it was still lower than exports, so it still showed a positive trade balance. Intra-ASEAN trade collectively provides the largest portion of total ASEAN trade. The share of exports and imports of intra-ASEAN goods respectively were 23.5% and 22.3% of total exports and imports in 2017. The other largest percentage of exports were to several ASEAN trading partners including 14.1% to China, 12, 1% to the European Union, 10.8% to the United States, and 8% to Japan. While the largest portion of imports was 20.3% from China, 9.1% from Japan, 8.3% from the European Union, 7.9% from South Korea, and 7.3% from the United States. The total ASEAN + 3 trade-in 2017 accounted for 31.6% of the total ASEAN trade (ASEAN Secretariat, ASEAN statistical database, 2018).

The contribution of Indonesia's exports to ASEAN+3 countries also showed good development in 1999 of US\$ 24,004.3 million until 2010 reaching USD 115,143.4 million although it tended to decline during 2011-2016 than in 2017 again showed an increase to USD 88,248.3 million. The following figure 2 illustrates more fully the development of Indonesia's export contributions to ASEAN + 3 during the period 1999 – 2017 :



Figure 2. Indonesian exports to ASEAN + 3, 1999 - 2017 (Million USD)

Source: data.imf.org, 2018

Indonesia's exports to all ASEAN countries are higher than to Japan, China, and South Korea which reached USD 39,221.3 million in 2017 and even reached USD 42,098.9 million over the past 20 years. When viewed per individual country, 8 of Indonesia's largest trading partners in the ASEAN + 3 region are in sequence, Japan, China, Singapore, South Korea, Malaysia, Vietnam, the Philippines, and Thailand. The eight countries have a very high level of economic openness to international trade as seen from the percentage of the ratio of trade (exports and imports) to the country's gross domestic product. Making it easier for Indonesian export commodities to enter the domestic market.

In the next stage by taking into account the achievement of significant economic cooperation and bearing in mind the shared interests, and interdependence between ASEAN member countries bound by geography, common goals, and common destiny, all the leaders of the executive bodies of ASEAN countries agreed to sign The ASEAN Charter at the November 2007 Summit held in Singapore, some of the agreements were firstly the commitment of economic openness of all ASEAN countries to the flow of goods, services, labor, and capital as written in ASEAN goals and principles. Second, commitment to implement democratic principles and third, improving the quality of institutions, especially good governance as in the ASEAN Charter in the opening, objectives, and principles.

International trade is more complex than domestic trade because trading countries differ in many respects such as differences in political, economic, cultural, institutional and legal systems that affect trade between countries. The issue of democracy included in the points of the ASEAN Charter agreement occurs because the main agenda of globalization is market liberalization for international trade. A free market requires fair and competitive competition among economic actors by minimizing government interference that can distort the market. Therefore, democracy is considered as a political infrastructure that can support market mechanisms running well because it is conceptually committed to limiting the dominance of a group's power over the majority group that determines economic and political policies in a country. A democratic state upholds the rights of individual citizens to achieve prosperity the role of the state is only present to maintain public order, uphold the law agreed upon by the constitution, and manage public goods. So that a democratic country is expected to implement economic policies that support competitive markets.

Several recent studies have shown empirical evidence that democratization has a positive role in increasing cooperation, reducing barriers, and increasing trade between countries (Donna, et al. 2018; Yogatama and Hastiadi, 2016; Balding, 2010; Yu, 2010; Milner and Kubota, 2005; Duc Cindy et al, 2004; Mansfield, et al, 2000). So that a country will more easily get trade benefits if it exports its superior commodities to a democratic country because it is more open to international trade than autocratic countries which are usually protective. However, in certain cases O'Rourke and Taylor (2006) state that democratization can inhibit trade, especially in countries where the majority of government supporters are groups that benefit from trade protection policies. Yogatama and Hastiadi (2016) also found that democratization in member countries of the Organization of Islamic Conferences which fall into the category of low-income countries resulted in policies that protect their domestic economy from imported goods or are more closed to international trade.

The issue of commitment to run good governance or good governance institutions is also included in the ASEAN Charter agreement because the presence of good governance institutions will encourage the creation of competitive international trade. Institutions include a set of formal and informal rules and enforcement mechanisms that ensure that the competitive competition market mechanism operates as it should. Institutions provide equal opportunities for individuals to carry out economic activities, protect property rights, and limit the behavior of politicians and other influential groups who seek to gain profits in a harmful way. Therefore, good quality institutions are also the main infrastructure to support international trade cooperation, especially at the ASEAN + 3 level.

Any recent studies have shown empirical evidence that good quality institutions play an important role in strengthening export orientation. Faruq (2011) in his research showed that institutional quality is at least in three variables, namely low level of corruption, efficient quality of bureaucracy, and guaranteed ownership rights will improve the quality of a country's exports. Other empirical research also shows that good institutional or governance quality is an important aspect of increasing trade (Yogatama and Hastiadi, 2016; Abidin et al, 2013, Balding, 2010; de Groot et al, 2004). However, Yu (2010) also found that good quality institutions can provide incentives for domestic producers to increase innovation, investment, and productivity in producing quality local products to increase the competitiveness of domestic products against imported products will consequently be a factor in creating substitution import.

2. RESEARCH METHOD

This research will use augmented gravity model panel data analysis for 22 years of observation (1996-2017) by entering the basic variables of the gravity model of trade (GDP and distance between countries) plus variables of economic openness, political liberalization index, and quality of institutions to determine the effect of all variables mentioned to Indonesia's exports to ASEAN + 3 countries, namely Singapore, Malaysia, Thailand, the Philippines, Vietnam, Myanmar, Japan, China, and South Korea.

The econometric model that will be examined refers to the model used by Ullah and Yasmeen (2014), Abidin et al (2013), Anwar and Nguyen (2011), Xuan and Xing (2008), and Yogatama and Hastiadi (2016) are as follows:

$$\ln(EX_{it}) = \alpha_1 + \beta_1 \ln(GDPIDN_t) + \beta_2 \ln(GDPAPT_{it}) + \beta_3 \ln(DIST_{it}) + \beta_4 \ln(OPENAPT_{it}) + \beta_5 FDIIDN_t + \beta_6 FDIAPT_{it} + \beta_7 POLIDN_t + \beta_8 POLAPT_{it} + \beta_9 GOVIDN_t + \beta_{10} GOVAPT_{it} + e_{it}$$

Table 1. Model Description

Variable		Description of Variables / Data Types	Hypothesis	Data source
$\ln(EX_{it})$:	The logarithm of the value of Indonesian exports to each of the ASEAN countries + 3 (billion US \$) as the dependent variable		DOT IMF
$\ln(GDPIDN_t)$:	Logarithm of Indonesian GDP based on 2010 constant prices (US \$)	+	WDI World Bank
$\ln(GDPAPT_{it})$:	Logarithm of GDP of each ASEAN + 3 member countries based on 2010 constant prices (US \$)	+	WDI World Bank
$\ln(DIST_{it})$:	Logarithm The distance between the Tanjung Priok port in Indonesia and the main port in each of the ASEAN + 3 member countries (Nautical Miles)	-	https://sea-distances.org
$\ln(OPENAPT_{it})$:	Level of Economic Openness of each ASEAN + 3 countries towards trade as measured by the formula (Export + Import): GDP	+	WDI World Bank
$FDIIDN_t$:	<i>Foreign Direct Investment net inflow to Indonesia (% of GDP)</i>	+	WDI World Bank
$FDIAPT_{it}$:	<i>Foreign Direct Investment net inflow to each ASEAN + 3 countries (% of GDP)</i>	-	WDI World Bank
$POLIDN_t$:	Indonesian Democracy Index	+	Polity IV
$POLAPT_{it}$:	Democracy Index of each ASEAN + 3 countries	+	Polity IV
$GOVIDN_t$:	Total Governance Index values for Indonesia	+	WGI World Bank dan ICRG
$GOVAPT_{it}$:	Number of Governance Index scores for each ASEAN + 3 countries	+	WGI World Bank dan ICRG
t	:	<i>Time series</i> in years		
i	:	Each country is a member of ASEAN +3		
α	:	Intercept		
B	:	Slope (n = 1, 2,)		
e_{it}	:	<i>Error term</i>		

Source: Author's

Explanations related to variables in the model are as follows :

- (1) This study uses the logarithm of Indonesia's export value to each of the ASEAN + 3 member countries which is symbolized by $\ln(EX_{it})$ as the dependent variable which is influenced by a number of independent variables in the augmented gravity model framework. Dependent variable data was obtained from The Direction of Trade Statistics published by the International Monetary Fund.
- (2) The basic variable of the gravity model is the size/capacity of a country represented by GDP and distance. Indonesian GDP shows a measure of Indonesia's productivity capability while partner countries' GDP shows the ability of import demand of ASEAN + 3 countries or it can be said also the market size of ASEAN + 3 countries. Both are expected to have a positive effect on Indonesia's exports to ASEAN + 3 countries. GDP data is sourced from the World Development Indicator published by the World Bank. Whereas the distance variable (DIST) represents the cost of transportation which has a negative impact on bilateral trade, meaning that the further the distance of the two countries, the smaller the volume of trade because transportation costs are more expensive. Distance data on the DIST variable is sourced from <https://sea-distances.org> which measures the distance in nautical miles between the Tanjung Priok port in Indonesia and the main ports in ASEAN + 3 countries including Malaca Port (Malaysia), Bangkok Port (Thailand), Singapore Harbor (Singapore), Manila Harbor (Philippines), Ho Chi Min Port (Vietnam), Tokyo Port (Japan), Shanghai Port (China), Busan Port (South Korea), and Yangoon Port (Myanmar).
- (3) The effect of economic openness is represented by the ratio of trade to GDP (exports plus imports divided by GDP) of each country belonging to ASEAN + 3 which refers to the study of Abidin et al (2013). The greater the value of the ratio of trade to GDP of a country shows that the country is very open and dependent on international trade in increasing GDP so that it can be suspected to be a factor affecting Indonesia's exports to that country. Variable data on trade to GDP ratio was obtained from the World Development Indicator published by the World Bank.
- (4) Then economic openness from the ease of foreign direct investment inflows refers to research conducted by Ullah and Yasmeen (2014), Anwar and Nguyen (2011), and Xuan and Xing (2008). The data used is the foreign direct investment net inflow to Indonesia (% of GDP) that entered Indonesia (FDIINDN) and to each of the countries - ASEAN + 3 (FDIAPT). These two variables represent the phenomenon of free flow of goods and capital and the government's economic policy choices whether to look outside or look inside to see the effect on Indonesia's exports to ASEAN + 3. Net FDI% GDP data was obtained from the World Development Indicator published by the World Bank.
- (5) The Democracy Variables POLIDNt and POLAPTit refer to the research of Yogatama and Hastiadi (2016) which are a combination of autocracy index and democracy index derived from the Polity IV Project. by subtracting the autocracy score from the democratic score so that it gets a score in the scale range of -10 and 10. A value of -10 indicates the country with the most autocracy value and a value of 10 indicates the country with the most democratic value (Marshall et al, 2018).
- (6) The variable quality of government institutions also refers to the research of Yogatama and Hastiadi (2016) by taking data sources on an indexed dataset published by the World Bank sourced from the International Country Risk Guide (ICRG) index by grouping based on the Worldwide Governance Index (WGI) consists of 6 types of groups size Voice and Accountability (VA), Political Stability and Absence of Violence (PV), Government Effectiveness (GE), Regulatory Quality (RQ), Rule of Law (RL), and Control of Corruption (CC) with Details are shown in Table 2 below.

Table 2. Institutional Quality Assessment Components

Group	Assessment Components	Point (max.)
RQ	<i>Investment profile</i>	12
PV	<i>Government stability</i>	12
	<i>Internal conflict</i>	12
	<i>External conflict</i>	12
	<i>Socioeconomic conditions</i>	12
	<i>Ethnic tensions</i>	6
	<i>Religious Tensions</i>	6

VA	<i>Military in politics</i>	6
	<i>Democratic accountability</i>	6
RL	<i>Law and order</i>	6
CC	<i>Corruption</i>	6
GE	<i>Bureaucratic quality</i>	4
	TOTAL	100

Source: World Governance Indicator World Bank and International Country Risk Guide Political Risk Service, 2018

The index assessment is based on a subjective analysis of the assessment component information that is available throughout the year of observation. The highest value indicates the lower business risk in a country due to the high quality of institutions. While the lowest value indicates the higher business risk in a country due to the low quality of the institution.

3. RESULTS AND DISCUSSION

Table 3 provides descriptive statistics of the variables used in this study. In general, these variables can be divided into three groups, namely: the basic variable gravity model as a measure of the attractiveness of exports between countries, the democratic variable as a measure of political liberalization, the governance variable as a measure of institutional quality, and the variable of economic openness.

Table 3. Descriptive Statistics of Variables

Variable	Obs	Mean	Std. Dev.	Min	Max
lnEX	198	8.02	1.49	3.82	10.43
lnGDPIDN	198	27.19	0.30	26.78	27.72
lnGDPAPT	198	26.64	1.66	23.15	29.95
lnDIST	198	7.28	0.59	6.26	8.08
lnOPENAPT	198	4.44	0.82	2.91	6.09
FDIIDN	198	1.13	1.57	-2.75	2.92
FDIAPT	198	4.42	5.46	-0.05	26.52
POLIDN	198	5.77	4.94	-7	9
POLAPT	198	1.61	6.82	-8	10
GOVIDN	198	54.97	6.59	43.83	66.92
GOVAPT	198	69.26	11.11	46.16	89.13

Source: Author's Estimation

The basic variable of the gravity model consists of Indonesia's export log to ASEAN + 3 countries as the dependent variable, Indonesia's GDP log as an exporting country, the ASEAN + 3 GDP log as an importing country, and the Distance log from Indonesia to each country ASEAN + 3 countries.

Next, the political liberalization variable is the democratization political index consisting of POLIDN for Indonesia and POLAPT for all ASEAN + 3 member countries. Table 3 shows the index of political liberalization as an approach to democratization on a scale ranging from -8 to 10. This shows that the political system in ASEAN + 3 countries is diverse, ranging from countries that have survived with a political system of autocracy for 22 years observations such as China and Vietnam (index value -7) and Singapore (-2), to very democratic countries such as Japan (10), South Korea (8), and the Philippines (8). Meanwhile, Indonesia has experienced periods that tend to be autarchic (index value -5 in 1998) but since then it has begun to undergo a process of democratization and has begun to stabilize until 2017 on a scale of 9 so that Indonesia is a very democratic country.

Then the institutional quality variable is shown by the Governance Index which is a calculation of the six indexes (control of corruption, government effectiveness, voice and accountability, political stability and absence of violence, regulatory quality, and rule of law) to describe the quality of institutions in ASEAN countries +3.

The governance index that shows the quality of its value is in the range of 0 to 100, getting closer to the value of 100 means that the quality of a country's institutions is getting better and vice versa the closer to 0 the quality of institutions is considered poor. Table 3 shows that the governance index of ASEAN + 3 countries is in the range between 43.83 and 89.13. A value of 43.83 is the lowest value of Indonesia during 1999, indicating bad governance occurred because of the economic and political crisis the fall of the new order government turned to the reform era when it happened. Then, the value of 89.13 shows the average value of the best quality of governance among the countries observed achieved by Singapore and Japan.

The variable economic openness shows the freedom of flow of goods/services and capital between countries, represented by the variable openness and foreign direct investment. Trade openness in the lowest range of 2.91 is the natural logarithm of the percentage of Japan's trade openness in 1999 which was only 18.35% of its GDP. While the highest value of 6.09 is the natural logarithm of Singapore's% GDP trade which in 2008 reached 441%. Singapore is indeed a country with the highest level of trade openness with an average of 300% then Malaysia, Thailand, and Vietnam averaging above 100%. Whereas the Philippines, Indonesia, South Korea, China and Japan, the average trade openness is between 60% - 100%. Then the foreign direct investment net inflow variable from the balance of payment for Indonesia (FDIIN) reached its lowest point in 1998, which was -2.75 because the assets coming in from FDI were smaller than their liabilities. This happened because the economic and political crisis that hit Indonesia caused many investors to move their investments to other countries that were relatively safer and had less risk of crisis.

3.1 Selection of Panel Data Analysis Method

This study uses panel data and adopts a gravity model of international trade. The initial stage of research with panel data is to determine the best model among the three-panel data models commonly used, namely the Common Effect Model (CEM), Fixed Effect Model (FEM), or Random Effect Model (REM). This study determines using the Random Effect Model (REM) as the most appropriate panel data analysis method to achieve the research objectives for several reasons as follows:

First, the Fixed Effect Model Method cannot be used because this study adopts the concept of a gravity model using geographical distance variables between countries whose values are fixed throughout the year of observation (time-invariant variable). The Fixed Effect Model method is a panel data model that assumes heterogeneity between individuals related to independent variables and unobserved effects remain constant over time and correlates with independent variables in the model. If the unobserved effect does not correlate with the independent variable, the Fixed Effect Model is inefficient. Therefore, this assumption causes the fixed-effect approach cannot be used to identify the impact on the variable whose value is fixed throughout the time of observation/time invariant variable (Gujarati and Porter, 2009 and Efendi and Setiawan, 2004: 116).

Second, according to Nachrowi (2006: 318), the selection of the Fixed Effect method or the Random Effect method can be done with consideration of the objectives of the analysis or there is a possibility that the data used as a basis for modeling can only be processed by one method alone due to various mathematical technical problems that underlie the calculation. In the context of this study, FEM was constrained because it could not analyze time invariant data.

Third, according to Egger (2002) in Kepaptsoglou et al (2010) states that the selection of the right method whether fixed effect or random effect depends on the interests of analysis, data and state samples, and the theory underlying the model used. Both methods are indeed needed to analyze panel data, but random effects can be considered to be used if the research has an interest in estimating variables that do not change over time (time-invariant) in the gravity trade model.

Fourth, based on the standard procedure Lagrange Multiplier test results show that the value of p-value ($\text{Prob} > \text{Chibar}_2$) = 0.0209 $< \alpha = 0.05$ (see attachment 2), then the random effect model is better than the common effect model.

So by considering some reasons, this study establishes the random effect model as the method used to achieve the research objectives. The random effect model can be used to estimate explanatory variables whose values remain constant throughout the observation period such as distances in the gravity model. Then, REM assumes an unobserved effect is uncorrelated with all explanatory variables, whether the value of the explanatory variable is fixed throughout the time of observation or

not. If the estimation results are compared between CEM and REM, the random effect model is superior to the common effect model because it is more efficient (Wooldridge, 2009: 493-496).

3.2 Analysis

Table 4 below summarizes the results of the augmented gravity model using the Random Effect Model method:

Table 4. Estimation Results with the Random Effect Model

Number of obs	: 194		
Number of countries	: 9		
Year	: 1996 - 2017		
Variabel Dependen	: lnEX		
Variabel	Coef.	Std. err	Prob.
lnGDPIDN	0.798***	0.150	0.000
lnGDPAPT	0.821***	0.037	0.000
lnDIST	-0.563***	0.138	0.000
lnOPENAPT	0.421***	0.080	0.000
FDIIDN	0.035	0.028	0.213
FDIAPT	0.006	0.008	0.449
POLIDN	0.025***	0.007	0.001
POLAPT	0.025***	0.006	0.000
GOVIDN	0.012**	0.006	0.044
GOVAPT	0.017***	0.005	0.001
_cons	-35.49***	4.09	0.000
*** p < 0.01 , ** p < 0.05 , * p < 0.1			

Source: Author's Estimation

3.2.1 Analysis Gravity Model of Indonesian Exports to ASEAN+3

Trade between two countries is proportional to the economic size (GDP) of the two countries and inversely proportional to the distance, the gravity model shows a negative relationship between distance and trade because transportation costs will certainly be more expensive if the distance of the two trading countries is getting further. The equation is a gravity model of world trade (Krugman et al, 2012). In this study, economic size is represented by Indonesian GDP (GDPIDN) and GDP of ASEAN + 3 countries (GDPAPT) while distance is represented by distance (lnDIST).

Based on the results in table 4 Indonesia's GDP has a significant positive effect on Indonesia's exports to ASEAN + 3 at a 99% confidence level with a coefficient of 0.798. This shows that if there is an increase in Indonesia's GDP of 1%, Indonesia's exports to ASEAN + 3 will increase by an average of 0.798% with ceteris paribus requirements. GDPIDN is a representation of Indonesia's productivity, the greater the value, the greater, the greater, the production capacity, the greater, to increase exports.

Meanwhile, the GDP coefficient of ASEAN + 3 countries (GDPAPT) as Indonesia's trade partner shows a coefficient of 0.821 has a positive effect with a confidence level of 99%. If GDPAPT increases by 1%, Indonesia's exports will increase by an average of 0.821%, ceteris paribus. GDPAPT shows the ability of absorption/absorption of the products it imports so that its imports increase along with the increasing size of the country's economy.

While the effect of distance on Indonesian exports shows a coefficient of -0.563 with a significance level of $\alpha = 1\%$ or a confidence level of 99%, if the distance of Indonesia with ASEAN + 3 trading partner countries increases by 1% will reduce Indonesian exports by an average of -0.563%, ceteris paribus. This result can be interpreted that the farther the distance of Indonesia's export destination countries, the more expensive transportation costs to be borne thus reducing the volume of exports.

The results of estimated GDPIDN, GDPAPT, and DIST turned out to be in accordance with the concept of gravity models in the trade as stated by Tinbergen (1962) in Yuniarti (2007) as also quoted from the definition of Krugman et al (2012). The results of this study are in line with findings by Nguyen and Po (2017), Yogatama and Hastiadi (2016), Ullah and Yasmeen (2014), Anwar and Nguyen (2011), and Xuan and Xing (2008).

3.2.3 Economic Openness Against Indonesia's Exports to ASEAN + 3

A country's economic openness influences bilateral trade. In the context of this study, the economic openness of Indonesia's trading partner countries in ASEAN + 3 is represented by openness to trade, namely the total trade variable divided by gross domestic product (OPENAPT), which shows openness to transactions in goods and services. Then, from the capital side represented by foreign direct investment investing in Indonesia (FDIIDN) and in ASEAN + 3 countries (FDIAPT).

Table 4 estimation results show the coefficient of lnOPENAPT variable that is 0.421 with a 99% degree of confidence, meaning that if the level of trade openness shown by the ratio of trade to a gross domestic product of ASEAN + 3 countries increases by 1% will have a positive impact on increasing Indonesia's exports by an average of 0.421 % *ceteris paribus*. The results of the study are the same as Abidin et al (2013) which proves that the economic openness of OIC member countries has a significant positive effect on Malaysian exports. The output shows that economic integration in Southeast Asia and East Asia through the ASEAN Free Trade Area economic cooperation agreement and the East Asia Free Trade Agreement has had a positive and beneficial impact on Indonesian exports because all countries involved in the agreement open up their domestic economy to the flow of goods, more free services, capital, labor, and business actors so that Indonesian products can enter their domestic markets more easily.

Then FDI entering Indonesia does not affect Indonesia's exports to ASEAN + 3 countries. The same result happened in India as Mohanty and Sethi (2019) concluded that FDI did not have a significant impact on India's export performance. The characteristics between India and Indonesia are the same, namely having a potential market size. The total population of Indonesia reaches 263 million people with a per capita income of USD 3846 per year, 50 million people belong to the upper-middle class, and 120 million residents are aspiring middle class is a large potential consumer of foreign investor products. The research output shows that government efforts to invite foreign direct investment which are expected to increase export productivity have not yielded satisfactory results because FDI entering Indonesia is oriented towards the domestic market or market-oriented investment, according to Kojima (1973) and Mallampally and Sauvart (1999) as FDI who are presently motivated to find a market in the host country. As the results of Abimanyu's study (1994) in Kuncoro (2006) on foreign direct investment of transnational companies in Indonesia conclude that FDI tends to be oriented towards the domestic market, even though the products produced have a comparative advantage for exports. The results of a study by Tjahjono (1998) also indicated that investment activities carried out so far by importing lots of capital goods were directed to meet domestic demand, rather than being focused on export activities.

Then, the weakening of Indonesia's export performance caused a decline in the interest of export-oriented foreign investors to invest their capital in Indonesia. This can be listened to from the opinion of Zhang and Felmingham (2001) which states that the success of outward-oriented policies which is indicated by increased exports will attract FDI inflows due to the efficiency of private markets when competition in international markets encourages managerial efficiency and innovation that results in foreign investors becoming more interested in export-oriented domestic companies. The climate of international trade competition will increase export productivity, reduce the cost of capital utilization, and promise a high rate of return for foreign investors. However, based on this explanation Indonesia's declining export performance causes export-oriented FDI to be less interested in investment in Indonesia.

Indonesia's competitiveness in attracting FDI is still low resulting in investors being more interested in investing their capital in other countries that are more competitive and provide business efficiency. Figure 3 shows the statistics of net FDI inflows to Indonesia 1984-2017:

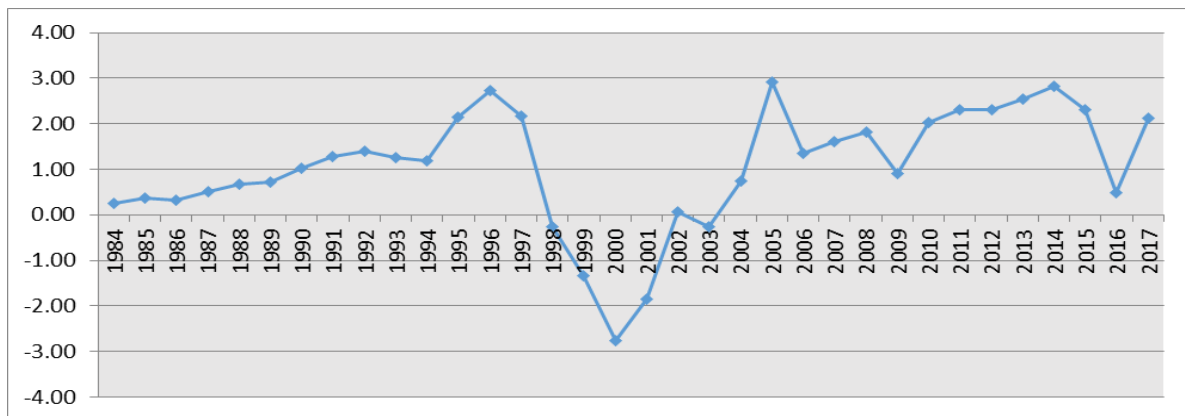


Figure 3. Trend of FDI Net Inflow (% GDP) to Indonesia

Source: World Development Indicator, World Bank (2018)

Based on the world ranking of FDI recipient countries, during the 1997 pre-crisis era Indonesia was among the main destination countries for FDI. Even during the 1990-1997 period, Indonesia ranked among the top 20 FDI recipient countries with a total value of FDI inflows reaching nearly 23.7 billion US dollars, only lower than Singapore and Malaysia in the ASEAN group. However, due to the 1997 crisis and the fall of the New Order government which has since then until now the post-crisis government has not been able to fully create a conducive investment/investment climate, as evidenced from a net inflow of FDI that fell to -0.25 (1998) even at the lowest point of -2.76 (2000) later in the following year showed a positive number with relatively slow fluctuations in progress. These negative and fluctuating net inflows are caused by many FDI withdrawing, relocating to other countries, or reducing the amount of FDI realization from the original plan. In the development of FDI investment in 2017 according to data from the Investment Coordinating Board (BKPM), the increase in FDI realization occurred in the tertiary sector with growth of 78%, while the primary and secondary sectors experienced a decline with negative growth of -2.2% and respectively -25.9%. The tertiary sector includes financial services and capital-intensive trade, not tradable sectors (goods-producing sector) such as primary and secondary sectors so that the contribution of FDI to increase domestic productivity (towards GDP) tends to decrease, this also impacts on the contribution of FDI to insignificant exports.

Besides being caused by the impact of the economic crisis, Indonesia's low competitiveness attracts FDI inflows due to the high level of corruption. Based on Political Risk Service data from the International Country Risk Guide (2017) used in this study as one of the constituent components of the independent governance index variable, the value of Indonesia's control of corruption in 2018 is still at a low level, which is 3 of the highest value of 6, whereas in the year 2009 reached a score of 3.83 which means that there has been a decline in the performance of eradicating corruption. The high level of corruption causes a decrease in ease of investment so that it impedes investment flows, which ultimately inhibits economic growth (Mauro, 1995 in Pradiptyo, et al. 2018). Pradiptyo et al (2018) concluded that corruption is a source of investment inhibition, changing and reducing the proportion of investment, inviting black investors, reducing capital productivity, and disrupting policy implementation (especially those related to efforts to attract FDI investments that increase export productivity).

As a comparison of countries in ASEAN + 3 with the best corrupt control performance, Singapore with an average value of control of corruption of 4.50 can prove that a low level of corruption can increase the competitiveness of the country bearing the Lion Merlion in attracting FDI inflows to no less than 20% of GDP over the 22 years of observation. Singapore's export performance is also the highest among ASEAN + 3 countries, reaching an average of more than 300%. Therefore, it can be concluded that foreign investors are more interested in countries with a low level of corruption because it makes it easier for investors to invest (Pradiptyo, et al 2015).

Then the flow of direct foreign capital into ASEAN + 3 (FDIAPT) member countries was found to not affect Indonesia's exports to ASEAN + 3. The sample used is not strong enough to prove that FDIAPT is a determinant factor in the demand for Indonesian export commodities. Although not significant, positive coefficient values indicate that FDI entering ASEAN + 3 countries might not create trade substitutes for Indonesian export commodities. This means that Indonesia's export products still have a comparative advantage that cannot be substituted despite the presence of foreign capital. Onwuka's research results (2009) conclude the case of Turkey that FDI inflows into Turkey do not affect Turkish imports.

3.2.3 Democracy on Indonesia's Exports to ASEAN + 3

The development of democratization in Indonesia (POLIDN) and ASEAN + 3 countries (POLAPT) has a positive and significant impact on Indonesia's exports. If an increase in the scale of the Indonesian democracy index will increase Indonesia's exports to ASEAN + 3 by an average of 2.5% with a confidence level of 99%. Similarly, if an increase in the scale of the democratic index of ASEAN + 3 countries will increase Indonesia's exports to ASEAN + 3 by an average of 2.5% with a confidence level of 99%. The output of the study is consistent with that found by Assoumou Ondo (2017) that democratization increases exports of Gabon, Yogatama and Hastiadi (2017) that democracy in Indonesia is a determinant factor that increases Indonesian exports to OIC member-countries, and Miaojie Yu (2010) towards 157 country observations, and Milner and Kubota (2005), and Mansfield et al (2000) which state that democratization contributes to the trade of up to 3% -4%.

Democracy has a positive and significant effect on Indonesia's exports because first, democracy has an impact on creating a fair and competitive market in both Indonesia and ASEAN + 3 trading partners. Democracy is inspired by the understanding of the teachings of the individualism which teaches freedom for every human being to achieve the goal of economic interests as a human right that must be upheld and prosperity will be better if each individual is given the freedom of business and opportunities for access to resources to pursue economic interests. Thus it will increase productivity through the creation of competitive markets. For bilateral trade relations, the principle of democracy in economics that has been applied has reduced trade barriers as a result of economic freedom/openness which creates a fair market.

Second, democracy has a positive and significant impact on increasing Indonesia's exports because importing countries that implement democracy have a high degree of economic openness and trade barriers are evidenced by a higher percentage of trade on gross domestic product than when the importing country was still in the autocracy stage, thus providing opportunities for exporters enter the domestic market. For example, the Philippines in 1972-1985 was a very autocratic government with the lowest IV polity index value -9. In that span of years, the percentage of trade to GDP in the Philippines was only 47% on average. After experiencing improvements to a democratic country starting in 1987 until now with the highest IV polity index value 8 trade contributions to GDP reached an average of 80% or even reached 104% in 2000. Figure 4 below shows the trend of Indonesia's exports to the Philippines from 1972-2017:

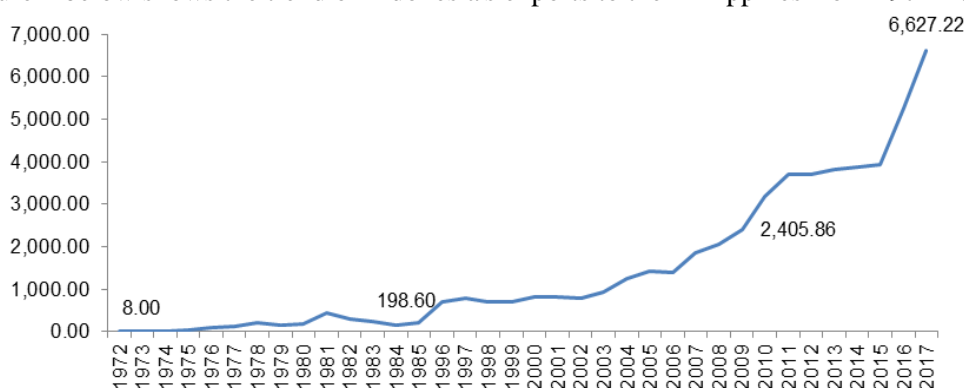


Figure 4. Development of Indonesian Exports to the Philippines (Million USD)

Source: World Development Indicator, World Bank (2018)

Based on Figure 4 the value of Indonesia's exports to the Philippines in 1972-1987 was very low at only US \$ 8 million after an improvement in political institutions into democracy from 1987 to 2018. The Philippine economic openness to international trade was increasingly shown by the average trade% of GDP ratio 80% is an opportunity for Indonesian export products to enter the domestic market. It has been proven that since the period of the demonstration, Indonesian exports to the Philippines have been far more progressive.

Third, democracy increases Indonesian exports because the application of democratization improves the quality of institutions in Indonesia and ASEAN + 3 which has an impact on increasing trade, this section will be explained further in section 4.6.4 Institutional Quality of Indonesian Exports to ASEAN Countries + 3.

The ASEAN Charter Agreement is one of the important points is that ASEAN member countries agree to abide by the principles of constitutional democracy and governance which have a positive and significant impact on trade, especially Indonesian exports. There is indeed a unique feature of autocracy in ASEAN + 3, although Singapore, China, and Vietnam are politically autocratic countries, in the application of economic policies, especially the investment and pro-trade with the market, this is a successful example of integrating autocracy in politics and democracy in the economy.

3.2.4 Quality of Institutions Towards Indonesian Exports to ASEAN+3

The quality of Indonesian government institutions (GOVIDN) and ASEAN + 3 member countries (GOVAPT) has a positive and significant impact on Indonesia's exports to ASEAN + 3 with a confidence level of 99%. An increase in the scale of the quality index of Indonesian government institutions increased Indonesia's exports to ASEAN + 3 by an average of 1.2%. Likewise, an increase in the scale of the institutional quality index of ASEAN + 3 member countries increased Indonesia's exports to ASEAN + 3 by an average of 1.7%. The output of this study is similar to the conclusions of Soeng and Cuyvers (2017) research that domestic institutional quality has a positive and significant effect on Cambodia's export performance, Abidin et al (2013) which proves that institutional quality in Malaysia has a significant positive effect on increasing exports of Malaysia, Yogatama and Hastiadi (2016) who found improvements in good governance of the Indonesian government and OIC member countries had a significant positive effect on increasing Indonesian exports to OIC member countries, Jasen and Nordas (2004) also concluded his research that the quality of domestic institutions had a positive and significant effect on bilateral trade, and Groot et al (2004) also concluded that poor quality institutions have an impact on increasing transaction costs in a trade so that good quality institutions have a positive and significant impact on increasing trade.

The contents of the ASEAN Charter is one of the points is that ASEAN member countries agreed to improve good governance institutional governance which turned out to have a positive and significant impact on trade, especially Indonesian exports. Good quality institutions are shown by decreasing the level of corruption (control of corruption), increasing the quality of government bureaucracy services (government effectiveness), increasing the quality of regulations that encourage the private sector (rule of quality) and improving the implementation of rule of law. will reduce the risk of uncertainty from contract execution, reduce transaction costs and production costs, ensure the security of property rights, and increase confidence in bilateral trade matters.

Whereas political stability and strong security (political stability and absence of violence) create a conducive business climate for the public to carry out productive activities both in Indonesia as an exporter and in ASEAN + 3 as an importer. So that businesses will avoid the negative effects of political turmoil and fear of a lack of security in conducting business activities: producing, exporting, or importing goods. The benefit for exporters (Indonesia) is that the domestic production process is not interrupted and increases the confidence of exporters selling their goods to countries that are safe from conflict. During the 22 years of observation in Southeast Asia and East Asia, there was no longstanding political and security instability like what happened in the Middle East. Therefore, Southeast Asia and East Asia are stable regions of prolonged political and security conflicts that have the potential to disrupt productivity and trade.

Then a good quality rule of law will guarantee order and certainty in law enforcement against any unlawful actions (eg piracy, robbery of property rights, etc.) of its citizens for the sake of creating a situation of order that helps minimize business risks. So that the exporting country (Indonesia) will increase its trade with countries that have good law enforcement because the trade costs they must bear are also low.

Thus, good quality institutions in trading partner countries will increase the confidence of exporters to export more of their products because of the low risks and costs. Likewise for domestic export producers who are getting better quality institutions in the country (Indonesia) will be incentivized to invest and innovate to produce better quality and quantity of products at low prices for the final product so that commodity competitiveness increases.

4. CONCLUSIONS

Based on research's result can be concluded that: (1) The economic openness of ASEAN + 3 member countries towards trade has a positive effect on Indonesia's exports to ASEAN + 3, these results indicate that the cooperation of the East Asia Free Trade Area has a positive impact on the progress of ASEAN + 3 trade. While net foreign direct investment inflows to Indonesia and ASEAN + 3 member countries do not affect Indonesia's exports to ASEAN + 3; (2) Democratization in Indonesia and ASEAN + 3 has a positive effect on increasing Indonesia's exports to ASEAN + 3. Democracy creates a conducive economic environment in the form of a competitive market and good institutional quality so that Indonesia can increase productivity and for ASEAN + 3 to open its domestic market to other countries' export commodities; (3) The better quality of institutions in Indonesia will be an incentive for producers to invest and innovate to produce better quality and quantity of products at low prices for the final product so that the competitiveness of commodities increases. While the institutional conditions of ASEAN + 3 countries as export destinations become a determinant factor for Indonesian exports because all measures of governance are a consideration for business risks, the better the institutional quality of export destination countries, the business risks and trade costs are low to increase confidence for exports. Conversely, the poor quality of institutional export destination countries will reduce the interest of exporters because of the high risks and costs; (4) Indonesia's GDP which represents Indonesia's production capacity and the GDP of ASEAN + 3 member countries which indicates the ability of the absorption of ASEAN + 3 member countries to Indonesia's export commodities has proven to have a positive effect on increasing Indonesia's exports to ASEAN + 3. While geographical distance has a negative effect on Indonesia's exports to ASEAN + 3, indicating the greater distance to the destination country of export the greater the cost of transportation, thereby reducing exports.

Based on research result, policy recommendations of this research is as follows: (1) The results of the gravity model research give the implication that to increase Indonesia's exports it is necessary to increase the economic capacity of Indonesia and its trading partner countries in ASEAN + 3 firstly, continue to implement and develop the ASEAN Free Trade Area and East Asia Free Trade Agreement implemented since 1997 because free trade can increase economic growth among the trading countries. Secondly, ASEAN organizations must maintain the conditions of a safe and conducive region of conflict as determined by the ASEAN Charter so as not to interfere with the production and trade activities of the Southeast and East Asia regions; (2) Indonesia needs to improve the quality of democracy and its governance institutions, especially in combating corruption (control of corruption), maintaining political stability and security (political stability), serving with effective and efficient bureaucracy (government effectiveness), presenting certainty and quality of pro-business regulations (regulation of quality), and guaranteeing certainty and reliable law enforcement (law and order/rule of law); (3) The government needs to make efforts to attract export-oriented foreign direct investment, namely the first way, make efforts to improve fundamentally the quality of government institutions, improve the quality of business ease (easy of doing business), and build infrastructure that supports production and export efficiency. Second, provide incentives for export-oriented foreign investment, for example, incentives in the form of tax cuts.

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