



## PROTECTING NATIONAL SECURITY AND ECONOMIC FREEDOM: RELEVANCE IN 3 SOUTHEAST ASIA COUNTRIES, 2014–2021

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### Abstrak

*Makalah ini berinisiatif untuk mempelajari kausalitas antara military spending (MS), GDP of military sector (GMS), armed forces personnel (AFP), arms exports (AE), dan arms imports (AI) terhadap kebebasan ekonomi (FE). Objektivitas ditentukan di Indonesia–Malaysia–Singapura. Regresi data panel digunakan untuk menguji serangkaian hipotesis selama kurun 2014–2021. Selanjutnya, parameter probabilitas yang diberlakukan adalah  $sp < 0,05$ . Berbagai kesimpulan memperlihatkan ada perbedaan pada tiga pengamatan. Pertama, AFP dan AE berpengaruh signifikan terhadap EF di Indonesia. Kedua, MS, GMS, dan AI justru memengaruhi EF di Malaysia secara signifikan. Ketiga, MS, GMS, dan AFP mempunyai keterkaitan yang signifikan bagi EF di Singapura. Dalam reaksinya, temuan mendeteksi bahwa pembangunan militer meningkatkan kebebasan ekonomi di Indonesia dan Singapura, tetapi tidak untuk kasus di Malaysia secara kolektif. Hasil penyelidikan memberikan wawasan yang berguna mengenai kemajuan industri militer dan teknologi senjata, sehingga membawa eskalasi perekonomian yang lebih progresif. Kedamaian sukar tercapai apabila tuntutan untuk memperjuangkan kesejahteraan tidak selenggarakan.*

**Kata Kunci:** *belanja militer; ekspor dan impor senjata; PDB Militer; Personil Angkatan Bersenjata; Regresi Data Panel*

### Abstract

This paper takes the initiative to study the causality between military spending (MS), GDP of the military sector (GMS), armed forces personnel (AFP), arms exports (AE), arms imports (AI), and economic freedom (FE). Objectivity is determined in Indonesia–Malaysia–Singapore. Panel data regression is used to test a series of hypotheses over the period 2014–2021. Furthermore, the probability parameter applied is  $p < 0.05$ . Various conclusions show that there are differences between the three observations. First, AFP and AE have a significant effect on EF in Indonesia. Second, MS, GMS, and AI affect EF in Malaysia significantly. Third, MS, GMS, and AFP have significant links to EF in Singapore. In reaction, the findings detect that military build-up increased economic freedom in Indonesia and Singapore, but not in Malaysia collectively. The results of the investigation provide useful insights into the progress of the military industry and weapons technology, thereby bringing about a more progressive economic escalation. Economic freedom is an identity that symbolizes the maturity of a country's prosperity.

**Keywords:** *armed forces personnel; arms exports and imports; GDP of Military; military spending; panel data regression*

## Introduction

Security is key to social, political, ethnic, and economic stability in many countries (Goryakin et al., 2015). The level of security is also seen as dignity and splendor of a nation (Kelman, 1977; McCrudden, 2008). Poor defense crisis is defined as decrease recognition of military protection (e.g. Feaver, 1999; Ballin et al., 2020; Samaras et al., 2019). Substantially, the government is authoritarian in the process, checks, and convergence of military regulations (Emily, 2022).

The world's great commitment to fighting crime is actualized through the revolution of its military institutions that oversee transnational security. This great work is a global demand for peace. Each country also has the opportunity to focus on domestic security, where every soldier is prepared with a comprehensive weaponry aspect (Riedel, 2004). Given the urgency and essence of national security is an integrated package, the military attributes will inherit a more successful cycle of change, agency, and democratic structures (Croissant et al., 2011). The depth of military strength can improve institutional patterns and prevention capacities from internal and external threats (Croissant & Kuehn, 2009).

Like emerging markets, such as Indonesia–Malaysia–Singapore, the military and armaments are industries that have bright prospects (Bitzinger, 2010; 2013; 2022). Considering geographical factors that are close to each other, these countries always collaborate in military training and revitalization of defense in the air, land, and sea territories, so that the diplomatic side continues to increase (Milia et al., 2018). Technically, all three are also incorporated in the Southeast Asian region, so that security connectivity is operated by tightening security from terrorists, illegal immigrants, trafficking in women and children, illegal workers, and asylum seekers who trigger commercial or state financial losses (Thayer, 2007). Borderlines in Indonesia–Malaysia–Singapore, allow inter-sub-regional guarding. When there is a vertical and horizontal conflict between these three countries, the resolution of the problem is bridged by the United Nations Council.

Often, military constraints and interests interfere with partnership interactions, such as economic freedom (Long & Leeds, 2006; Wignaraja et al., 2019). A good corporate atmosphere indicates a positive state image. In the context of emergencies

such as economic bankruptcy, destruction by natural disasters, disturbances to public peace, ceasefires, widespread terrorist aggression, and expansive demonstrations, security protection is generally under the control of the military hierarchy (Callejas & Cazeau, 2016). Publications highlighting the relationship between national security and economic freedom were reviewed by Djidrov et al. (2013), Dokmanović & Cvetičanin (2020), Markina et al. (2018), and Retter et al. (2020). Empirical evaluation in the Balkans, Ukraine, and the Netherlands shows that the performance of economic freedom reflects integrated national security. On the one hand, Brkić (2020) and Graafland (2020) argue that the national security system stimulates economic freedom for 86 countries, including the European Union (EU).

Stimulating economic freedom is one of several constitutional goals for the establishment of a prosperous, united, and sovereign state. As a "universal terminology" that emphasizes the loci of various conditions that represent quality in human life (Lees, 2016). Among the various criteria are prosperity, physical and mental health, capacity for reasoning, skills, and, of course, the happiness of living life as a human being. Meanwhile, the word "universal" attached to the "concept of economic freedom" bridges the nature of society, in which every citizen has the right to enjoy welfare (e.g. Chirimbu & Barbu-Chirimbu, 2011; Cruz-Martínez, 2019). It is clear that the ideals of welfare as outlined in this state ideological consortium are complex and cannot be reduced to merely economic affairs. It is also undeniable that economic freedom in an integral sense can be realized if certain economic conditions are also successfully implemented (Walker et al., 2021). According to Mensah (2019), implementing economic principles that are compatible with the prosperity agenda will never lack relevance in any endeavor.

In essence, the preference contained in the arguments and literature above produces contradictory debates about economic freedom. So far, the primary problems towards inclusive economic freedom will not be easily realized if domestic stability does not guarantee security, including the military. Apart from being centered on domestic security, the main part is a collaboration between nations in import–export, for example, weapons commodities. The complexity, systematic planning of government spending in the military sector, GDP, compliance of armed forces, and the export–import balance imply the resilience of a country.

Responding to a series of situations about the renewal of the military system which is seen as weak, has the potential to hinder the existence of economic freedom. The statement of the underlying problem must be responded to by periodically allocating military financing, strengthening the armed forces, revitalizing supply chain procedures for producing military equipment or embracing allies in arms partnerships, and channeling instructions or ideas, thus implying the message that national independence cannot be separated from a conducive economy. Referring to the facts, it proves that domestic security is a tool to guarantee contemporary economic freedom. Ideally, the national security strategy plays a vital role and represents the economic safety of a nation. So, the motivation of this article is to investigate the effect of national security on economic freedom in 3 Southeast Asian countries (Indonesia–Malaysia–Singapore). Therefore, peace is difficult to achieve if the demands to fight for prosperity are not carried out. In brief, the panel data regression method is implemented to map whether national defense including: military spending, GDP of the military sector, armed forces personnel, arms exports, and arms imports for economic freedom has functioned or is not optimal.

### **National security**

National security implies a set of judgments about how the political community can protect itself from potential harm. In security initiation, such a characterization justifies referral. Yet, it is also often assumed that national security is interpreted as a particular practice and mechanism of security. It has become commonplace when referring to the “traditional” paradigm of national security, as if the state is unable to adapt to very drastic changes (Sussex et al., 2017).

Unifying national security is a common viewpoint, from which all participants in security activities change that aim to contribute to one common proposition (Clarke et al., 2022). Although security policymakers now display different approaches, the agenda tends to be harmonized through conventional rubrics in the pillars of national interest. Without worrying about intellectual demarcation, which is partly understood with academic thinking to study the problem of national security developments. Today, national security observations have grown rapidly to refer to threats to welfare and

survival. Intelligence analysis is elaborated on general illustrations and basics of the focal point of problem-solving in science-based intelligence.

White (2018) explains that domestic security is a profession, field, and practice that has emerged recently in an established proportion of national security. To guide national security, a set of basic principles and theory development are linked to an exclusive consensus. From a different perspective, O'Sullivan & Ramsay (2015) combine the issue of "homeland security" with resource competition, climate change, environmental security, and conflict. Risk management to national security is closely linked to assisting security strategies and responding to nature, such as the Asia Pacific which is heating up (Armawi & Wijatmoko, 2022).

### **Military and armament industry**

Before the end of the "Cold War", research on the arms industry in developing countries received little attention (Brauer, 2002). The popularity of research studying military spending and its impact on economic growth and development is more crucial than examining the arms industry in countries with relatively military power. It should be noted, since "World War II", technology has played a central role in defense spending in arms-producing countries. Since the 1990s, despite the absence of major conflicts or threats, the defense sector absorbs the bulk of research, military spending, and public development. To avoid strategic surprises, a technology centric paradigm is generated in the context of the uncertainty surrounding defense needs and issues. The supply side elasticity of weapons encourages defense companies to develop business clusters through the launch of new military programs (Bellais, 2013). A market, centered on technology, tends to be favored by defense companies with connections to security governance.

Dombrowsk et al. (2003) believe that military transformation does not mean accommodating the defense industry prominently. Much of the innovation is required to integrate systems that can affect warfare into defense networks. Most likely, the defense base industry is also building platforms. But, there are differences in evaluation standards for the Navy. To change the shipbuilding landscape, suppliers will have a stake in the industry of the future, where innovative technologies by the company keep an eye on the offering of new sketch Case studies in the US, recent developments in the

defense industry have attracted demand in the global market. Dombrowski & Gholz (2009) clarified that innovative product quality attributes can help investment decisions in the military sector.

Recently, the Asian continent is a leading consumer of weapons, where the most advanced and most modern weapons are starting to enter the military inventory of the Asian region. As a result, Asian militaries have experienced a significant surge. Over the past few years, this has been unprecedented, both in quality and quantity. After all, all these trends make Asia the largest arms producer. Local weapons production also adds some value to military capabilities. Although arms dependence is important for some countries in the Asia-Pacific, they have attempted to at least reduce the supply of foreign weapons by equipping and replacing them with manufacturers of the weapons systems needed (Bitzinger, 2017).

### **Economic freedom**

Economic freedom is a framework, in which a structure compatible with a concern for prosperity is implemented in economic processes and institutions (Duan et al., 2022; Kabir & Alam, 2021; Sambharya & Rasheed, 2015). In the item of economic freedom, it includes many principles that are imbued with the spirit of freedom for all human beings in various economic activities to increase their level of personal well-being, but also that individual independence in the pattern of their interactions with one another, provides mutual benefits, and supports extensive welfare.

At a very basic level, these points include the protection of persons and private property from aggression by others, freedom to compete and enter market share, voluntary exchange coordinated by the market, and personal choice (Rapsikevicius et al., 2021). The goals of the economic freedom program focus on increasing public appreciation and a more appreciative understanding of public policy on economic rights designed for these four items.

It is often misunderstood that economic freedom will erode plural welfare because it rests on individual freedom, which is rooted in ideological prejudices that oppose freedom, and equality, where abundant facts show that the interval of economic freedom is directly proportional to the increase in social welfare (Näsström, 2021). This welfare

is not only focused on the economic aspect but also on the health and education aspects (Irwansyah et al., 2022).

To mention one study that relies on countries with free economies having more competent human development than countries with non-free economic backgrounds (Elistia & Syahzuni, 2018; Fatah et al., 2021). Economic freedom is a condition that must be met by a country to overcome health, education, and prosperity problems (Sinding, 2009).

## Research Method

### The data

The purpose of this paper is to answer the relationship between military spending, GDP of the military sector, armed forces personnel, arms exports, and arms imports on economic freedom in Indonesia–Malaysia–Singapore for 8 periods (2014–2021). In this scientific work, the research approach is quantitative. The secondary type of research supporting data which is recapitulated via online publications. Data tracking through an official source, i.e. The Global Economy. In other words, the data collection technique is documentation which is a conversion into official annual documents. To facilitate validation, this secondary data is created into an inferential method. The sample data are grouped into panel data that combines time-series and cross-section with the following scenarios:

$$N = i \times t \quad (1)$$

$$N = 6 \times 8 \quad (2)$$

$$N = 48 \quad (3)$$

where,  $N$  is the sample (observation),  $i$  is the entity, and  $t$  is the period (time).

Therefore, the sample selected for each case study is 42, which is obtained from the multiplication of the entity size with the variable component. After that, the panel data is tabulated into Microsoft Excel software.

### Variable list

A set of variables is divided into two schemes. The dependent variable is played by economic freedom. Then, the independent variable is measured by national security, in which five indicators (military spending, GDP of the military sector, armed forces

personnel, arms exports, and arms imports) are added to the verified. The five independent variables were designed to simulate their determination of economic freedom.

**Table 1 – Operational definition of each variable**

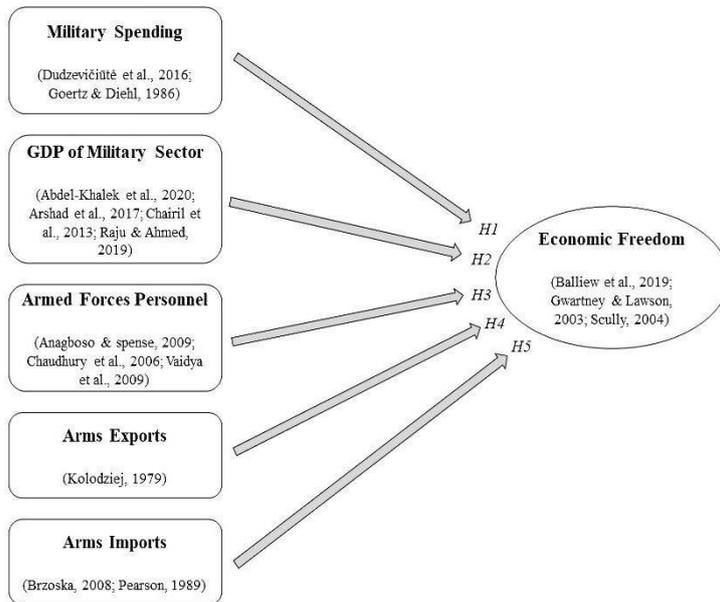
Variable name	Abbreviation	Description	Measures	Time lag
<i>Dependent variable</i>				
Economic Freedom	EF	The Economic Freedom Index as a whole has ten factors grouped into four broad categories including open markets, regulatory efficiency, limited government, and the rule of law.	Scale	2014–2020
<i>Independent variables</i>				
Military Spending	MS	Military expenditure allocated by a country's government, including military assistance, military research and development, procurement, operations and maintenance, pension funds, military and civilian personnel, military space activities, paramilitary forces, ministry of defense spending, and peacekeeping.	Billion US\$	2014–2020
GDP of the Military Sector	GMS	A signal to know the military economic condition in a certain country in a certain period.	Percentage	2014–2020
Armed Forces Personnel	AFP	Military personnel who are active or on call for duty, including paramilitary forces if they control and advise other military members to replace or support regular military forces, change equipment, are involved in organizational structures, and are undergoing training.	Peoples	2014–2020
Arms Exports	AE	Arms transfers include manufacturing licenses, gifts, assistance, and supplies of military weapons for sale such as ships designed for military use, missiles, radar systems, artillery, armored vehicles (tanks), aircraft, and primary conventional weapons.	Million US\$	2014–2020
Arms Imports	AI	Similar to the intensity of exports, imports are transactions from suppliers of weapons equipment or military manufacturers to the country of purchase (consumer). The buying and selling process does not include the transfer of other military equipment such as other services,	Million US\$	2014–2020

technology transfer, support equipment,  
ammunition, small artillery, and light weapons.

Source: (The Global Economy, 2022).

Completely, Table 1 displays the specifications of all variables. Figure 1, illustrates the conceptual path of work referring to the compilation of several previous studies that support and verify the study procedure.

**Figure 1 – Proposed research framework**



Source: (Own).

### Econometrics

To get quantitative evidence, the data were extracted through panel data regression analysis. In this paper, a statistical tool in the form of IBM-SPSS version 26 is used to calculate empirically with a series of descriptive statistics, correlation analysis, and partial testing (e.g. Brkić, 2020; Mura et al., 2017; Rasuli & Farzinvash, 2013). In the correlation method, the formulation of the correlation coefficient adopted from Darma et al. (2022) and Fitriadi et al. (2022a, b) as follows:

$$r_{xy} = \frac{\sum (x-x)(y-y)}{\sqrt{(\sum(x-x^2)(\sum y-y^2))}} \quad (4)$$

where,  $r$  is the correlation between the independent variable and the dependent variable,  $xy$  is the deviation from the mean for the values of the independent variable and the dependent variable,  $\sum x.y$  is the total multiplication between the values of  $X$  and  $Y$ ,  $x^2$  is

the square root for the value of  $X$ , and  $y^2$  is the square root for the value of  $Y$ . The following describes the confidence range of the correlation coefficient.

$$H_0 : r = 0 \quad (5)$$

where, there is no positive correlation between  $X$  and  $Y$ .

$$H_1 : r \neq 0 \quad (6)$$

where, there is a positive correlation between  $X$  and  $Y$ .

The basic statistical functions are assumed with the following notation:

$$Y = f(\beta_1, \beta_2, \beta_3, \beta_4, \beta_5) \quad (7)$$

To simplify the unit of account for each variable, the model regression equation reads as follows:

$$\ln EF_{it} = \alpha + \ln \beta_1 MS_{it} + \ln \beta_2 GMS_{it} + \ln \beta_3 AFP_{it} + \ln \beta_4 AE_{it} + \ln \beta_5 AI_{it} + Y_i + \varepsilon_{it} \quad (8)$$

where,  $\alpha$  is a constant,  $f$  is the equation function,  $\beta_1, \dots, \beta_5$  is the standardized coefficient,  $\ln$  is the natural logarithm,  $i$  is the set,  $t$  is the period (2014.....2020),  $Y_i$  is a fixed effect of IDN, MYS, and SGP, and  $\varepsilon$  is the error term and other variables outside the model.

## Results and Discussion

### *Descriptive statistics*

Table 2 summarizes the descriptive statistics on all variables. There are mean scores and standard deviation (SD) scores that vary from MS, GMS, AFP, AE, AI, and EF. In Indonesia, the highest mean score is on AFP with 676,053.125 points, while the lowest is GMS (0.831). But, the highest SD score was AI (549,534) and the lowest GMS was 0.062. For Malaysia, the most dominant mean value compared to the others is AFP with a score of 134,695 and the smallest is GMS of 1.255. In SD, the lowest point was GMS (0.221), while the highest was AFP (1,433.854).

**Table 2 – Summary of descriptive statistics**

Variables	IDN		MYS		SGP	
	Mean	SD	Mean	SD	Mean	SD
MS_X1	8.154	0.891	4.133	0.599	10.061	0.596
GMS_X2	0.831	0.062	1.255	0.221	3.016	0.118
AFP_X3	676,053.125	478.573	134,695	1,433.854	117,357	42,381.772
AE_X4	28.529	38.561	7.378	5.797	31.67	25.294
AI_X5	672.649	549.534	119.43	79.387	403.894	271.197
EF_Y	63.375	3.461	72.875	2.417	88.375	1.847

Source: (Authors).

Surprisingly, from Singapore, the highest mean value was AI which reached 403,894 and this was different from the smallest mean, which was GMS of 3,016. There is the largest SD value (AFP = 42.381.772) and the smallest (GMS = 0.118).

### ***Correlation analysis***

Pearson correlation was made to see the relationship between all variables (see Table 3). For the most part, the independent variables show a negative correlation coefficient with the dependent variable for the case study in Indonesia. Only MS and AE appeared to have a positive association with EF (C = 0.372, C = 0.582).

**Table 3 – Correlation matrix**

IDN						
Variables	MS_X1	GMS_X2	AFP_X3	AE_X4	AI_X5	EF_Y
MS_X1	1	0.510 (0.197)	-0.393 (0.336)	0.052 (0.903)	-0.403 (0.323)	0.372 (0.365)
GMS_X2	0.510 (0.197)	1	0.251 (0.548)	-0.355 (0.388)	0.013 (0.976)	-0.419 (0.302)
AFP_X3	-0.393 (0.336)	0.251 (0.548)	1	-0.391 (0.338)	0.329 (0.427)	-0.800* (0.017)
AE_X4	0.052	-0.355	-0.391	1	0.064	0.582

	(0.903)	(0.388)	(0.338)		(0.880)	(0.130)
AI_X5	-0.403	0.013	0.329	0.064	1	-0.542
	(0.323)	(0.975)	(0.427)	(0.880)		(0.165)
EF_Y	0.372	-0.419	-0.800*	0.582	-0.542	1
	(0.365)	(0.302)	(0.017)	(0.130)	(0.165)	
<i>MYS</i>						
Variables	MS_X1	GMS_X2	AFP_X3	AE_X4	AI_X5	EF_Y
MS_X1	1	0.920**	-0.591	-0.268	-0.149	-0.261
		(0.001)	(0.123)	(0.522)	(0.724)	(0.532)
GMS_X2	0.920**	1	-0.752*	-0.388	0.155	-0.151
	(0.001)		(0.031)	(0.342)	(0.714)	(0.721)
AFP_X3	-0.591	-0.752*	1	0.511	-0.533	-0.282
	(0.123)	(0.031)		(0.196)	(0.174)	(0.498)
AE_X4	-0.268	-0.388	0.511	1	-0.439	-0.561
	(0.522)	(0.342)	(0.196)		(0.276)	(0.148)
AI_X5	-0.149	0.155	-0.533	-0.439	1	0.546
	(0.724)	(0.714)	(0.174)	(0.276)		(0.161)
EF_Y	-0.261	-0.151	-0.282	-0.561	0.546	1
	(0.532)	(0.721)	(0.498)	(0.148)	(0.161)	
<i>SGP</i>						
Variables	MS_X1	GMS_X2	AFP_X3	AE_X4	AI_X5	EF_Y
MS_X1	1	-0.219	-0.891**	0.113	-0.039	-0.382
		(0.603)	(0.003)	(0.789)	(0.926)	(0.351)
GMS_X2	-0.219	1	0.235	0.449	-0.478	-0.721*
	(0.603)		(0.575)	(0.264)	(0.231)	(0.044)
AFP_X3	-0.891**	0.235	1	-0.165	0.062	0.369
	(0.003)	(0.575)		(0.696)	(0.885)	(0.368)
AE_X4	0.113	0.449	-0.165	1	0.156	-0.189
	(0.789)	(0.264)	(0.696)		(0.713)	(0.653)
AI_X5	-0.039	-0.478	0.062	0.156	1	0.604
	(0.926)	(0.231)	(0.885)	(0.713)		(0.113)

EF_Y	-0.382	-0.721*	0.369	-0.189	0.604	1
	(0.351)	(0.044)	(0.368)	(0.653)	(0.113)	

Note: (\* $p < 0.05$ , \*\* $p < 0.01$ ); Source: (Authors).

Based on the correlation level in Malaysia, the four independent variables showed a negative relationship with the dependent variable, but AI had a positive impact on EF, where  $C = 0.546$ . Referring to the degree of coefficient in Singapore, among the five independent variables, AFP ( $C = 0.369$ ) and AI ( $C = 0.604$ ) are positive for EF.

***Regression estimation***

In connection with the completion of statistical estimates, the panel data regression technique was applied in the study. To investigate the specific impact of MS, GMS, AFP, AE, and AI on EF, a partial test was performed. Not only presents the relationship of the independent variable to the dependent variable, but Table 4 also displays the performance of the intercept, simultaneous effect (F-statistics), standard error (SE), and coefficient of determination ( $R^2$ ). Starting from the intercept, the slope in Indonesia and Singapore represents that each variable value in the dependent variable has a fixed value, then the independent variables will increase by 4.280 and 4.612 systematically. From the intercept value in Malaysia, when FE increased by 1 point, it also caused an increase to reach 23,576, but it was not systematic or short term.

In other instruments, such as the coefficient of determination, from the three countries, Singapore has an  $R^2$  score of 95.2% and is close to 1 or "very strong". Meanwhile,  $R^2$  in Malaysia is 84.7% which indicates that there is a "strong" determination and a "medium" pattern of determination in Indonesia with an  $R^2$  of 69.5%. Besides, the simultaneous feasibility implied by F-statistics concludes that in the three models (Indonesia–Malaysia–Singapore) there is a chain effect of all independent variables that affect the dependent variable.

**Table 4 – Panel data regression**

	<b>IDN</b> (Obs. = 48)	<b>MYS</b> (Obs. = 48)	<b>SGP</b> (Obs. = 48)
Intercept	4.280* (0.005)	23.576 (0.378)	4.612* (0.016)
MS_X1	0.307 (0.722)	0.875 (0.596)	-0.022 (0.965)
GMS_X2	-0.388 (0.639)	-1.649 (0.320)	-0.955 (0.074)
AFP_X3	0.834* (0.037)	-0.605 (0.448)	0.653* (0.031)
AE_X4	0.330* (0.018)	-0.577 (0.233)	0.369 (0.285)
AI_X5	-0.452 (0.485)	0.369* (0.029)	0.129 (0.618)
R <sup>2</sup>	0.695	0.847	0.952
F-statistics	1.712	2.209	7.982
SE	0.045	0.025	0.009

Note: (\*p < 0.05); Source: (Authors).

In more detail, Table 4 demonstrates that the SE score at the first location (IDN) was 0.045, then at the second location (MYS) it was 0.025, and the third location (SGP) was 0.009. Overall, the most prominent model is the Singapore case study, where the distribution of all independent variables to the dependent variable is in a variation of 99.1% and the remaining 0.9% are other components outside the scope of the study. Based on the case in Malaysia, only 2.5% of the residual factors outside the variables that affect EF or as much as 97.5% are fixed variables that control the dependent variable. The SE score in Indonesia shows 95.5% is a model constant in the relationship of MS, GMS, AFP, AE, and AI to EF, although there is 4.5% as a factor not examined in the study.

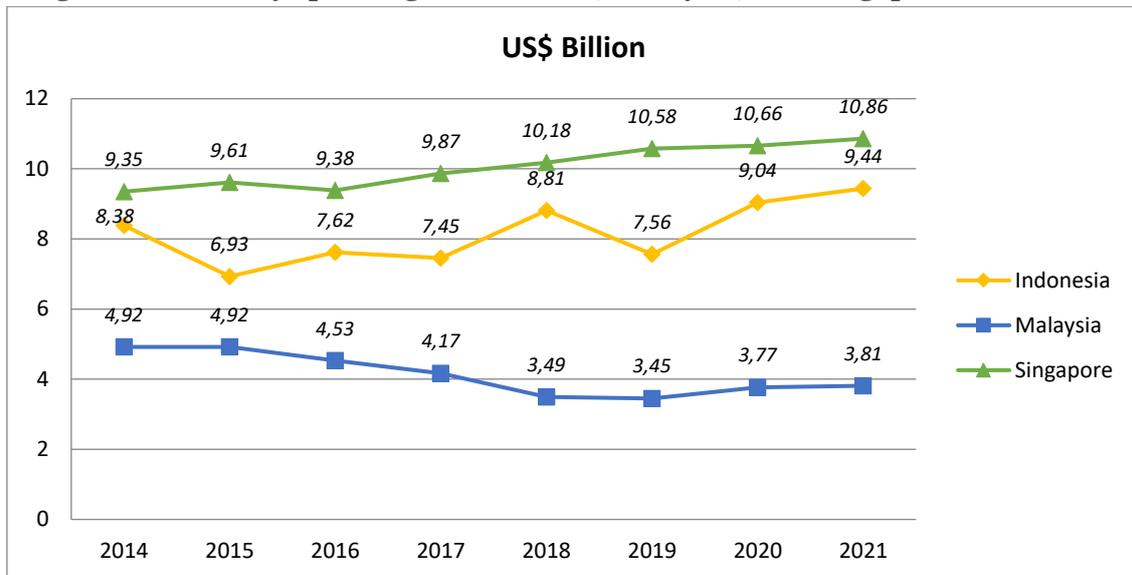
When examining the results of the regression above, in Indonesia, four relationships are accepted and are in line with the hypothesis. The rest, one, was

rejected because it contradicted the proposed hypothesis. The probability value has supported MS ( $\rho = 0.722$ ), GMS ( $\rho = 0.639$ ), AFP ( $\rho = 0.037$ ), and AE ( $\rho = 0.018$ ). In AI,  $\rho = 0.485$ . Furthermore, in the second model or the Malaysian case, three hypotheses were accepted, yet, two of them rejected the proposed hypothesis. This is shown by the achievements of MS ( $\rho = 0.596$ ), GMS ( $\rho = 0.320$ ), AFP ( $\rho = 0.448$ ), AE ( $\rho = 0.233$ ), and AI ( $\rho = 0.029$ ). In fact, for the case of Singapore, there is a match in the literature in MS ( $\rho = 0.965$ ), GMS ( $\rho = 0.074$ ), and AFP ( $\rho = 0.032$ ), thus the hypothesis is accepted. Sequentially, the two rejected hypotheses were AE ( $\rho = 0.285$ ) and AI ( $\rho = 0.618$ ).

### *Justification*

In 8 years, the average military spending realized by the governments of Indonesia–Malaysia–Singapore to eradicate violence and chaos, both at the domestic and foreign levels, shows a striking nominal difference (see Figure 2). So far, the average military spending in Indonesia during 2014-2021 is around 8.15 billion US\$ (2<sup>nd</sup> place). In first position, is Singapore, where the average for military spending reaches US\$ 10.06 billion. The area and population of the country are still far behind Indonesia and Malaysia. However, Singapore's military capacity and popularity deserve to be reckoned with on the world stage. Ranked last, with an average allocation of military spending of around 4.13 billion US\$, making Malaysia a country that is also in the spotlight in the ASEAN region. Malaysia's nominal military spending is naturally lower than Indonesia's and Singapore's. Although the population in Malaysia is less, there are 2 parts (autonomy) that must be guarded by the Malaysian government. In general, the budget posture for military spending in Singapore is quite consistent from time to time.

**Figure 2 – Military spending of Indonesia, Malaysia, and Singapore (2014–2021)**



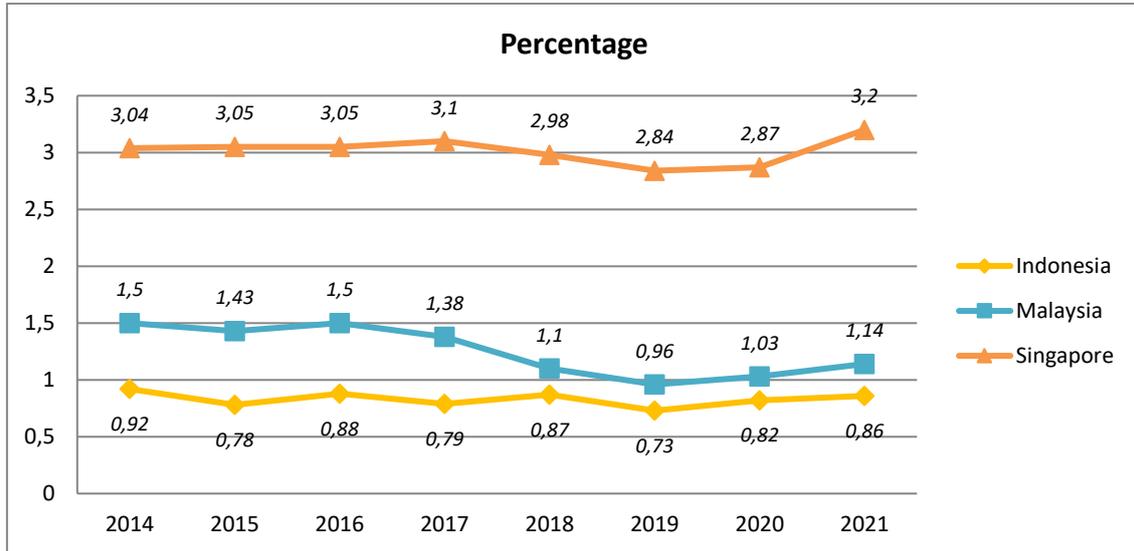
Source: (Authors).

In Figure 3, the contribution of the military sector to GDP accumulation appears to be less consistent, be it in Indonesia, Malaysia, or Singapore. The role of this sector in GDP is still relatively low, with achievement of no more than 4%. But, Singapore's GDP of the military sector is far above its two neighboring countries with a range of >2% to <3.5%. This percentage makes Singapore in the 1<sup>st</sup> rank. Malaysia and Indonesia are ranked 2<sup>nd</sup> and 3<sup>rd</sup> respectively. Spontaneously, the average GDP of the military sector in Singapore was 3.02%, followed by Malaysia (1.26%), and Indonesia (0.83%).

Each country provides armed forces personnel based on budget execution capability, level of military need, the potential for conflict, and various threat control, Indonesia–Malaysia–Singapore is no exception. The use of armed personnel resources from three spheres (air, sea, and land military units), as a whole, is more widely used in Indonesia. The crucial reason that makes the armed forces in Indonesia so dominant compared to Singapore and Malaysia is the very large area size factor, the population which has the opportunity to cause many internal and external problems such as ethnic diversity, religious elements, political dimensions, to colorful social structures. With the average armed forces personnel around 676,053 people, it triggers the absorption of a large military budget as well. On the other hand, the allocation of Singapore's military spending is inefficient when compared to its armed forces personnel, which on average is 117,357 people. Malaysia is a country that is quite successful in saving military

spending. Figure 4, it implies the position of the armed forces personnel in Malaysia, between Indonesia and Singapore, or the second rank with an average of 134,695 personnel.

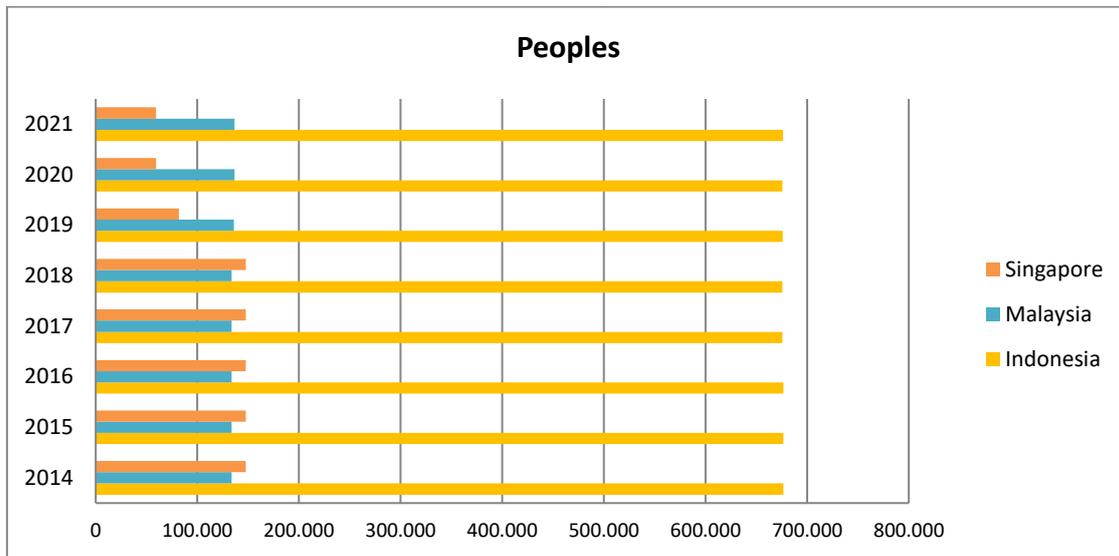
**Figure 3 – GDP of the military sector in Indonesia, Malaysia, and Singapore (2014–2021)**



Source: (Authors).

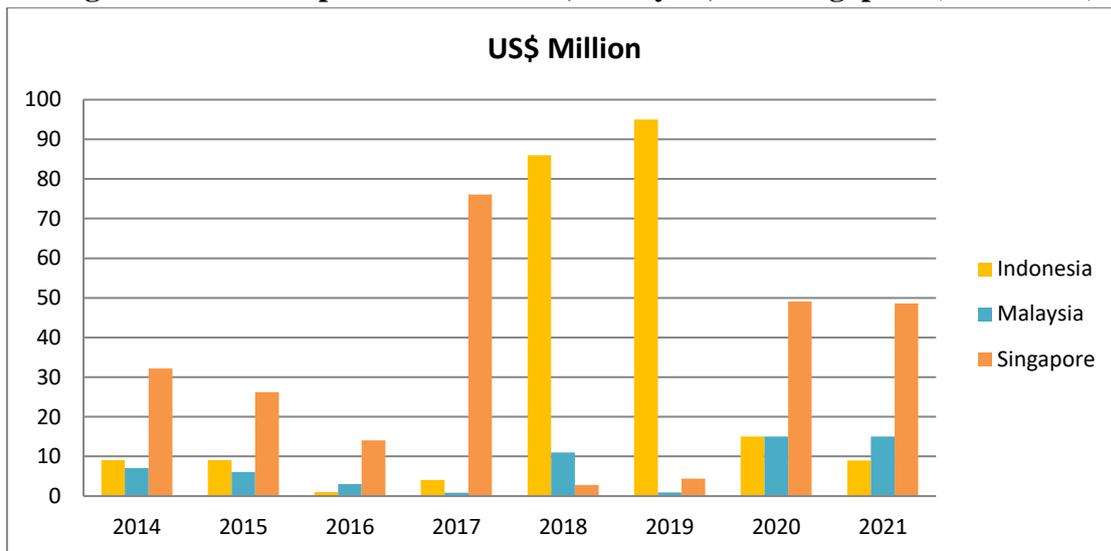
The establishment of the ASEAN Economic Community or called "AEC", whose blueprint has been agreed upon since 2015, makes trade flows in the Asian region very free (Jiuhardi & Michael, 2022; Killian, 2022). One of the partnerships in it focuses on increasing the equity of weapons. Import urgency exists because some countries have their advantages, thus requiring the exchange of goods and services commodities to complement each other (Ernst, 1981). Military competition and empowerment is a form of cooperation that benefits various parties. The movement of arms exports in Indonesia–Malaysia–Singapore fluctuated. Figure 5 visualizes the intensity of arms exports from three countries. In 8 years, the average nominal arms exports in Indonesia–Malaysia–Singapore was 28.53 billion US\$, 7.38 billion US\$, and 31.67 billion US\$.

**Figure 4 – Armed forces personnel in Indonesia, Malaysia, and Singapore (2014–2021)**



Source: (Authors).

**Figure 5 – Arms exports of Indonesia, Malaysia, and Singapore (2014–2021)**



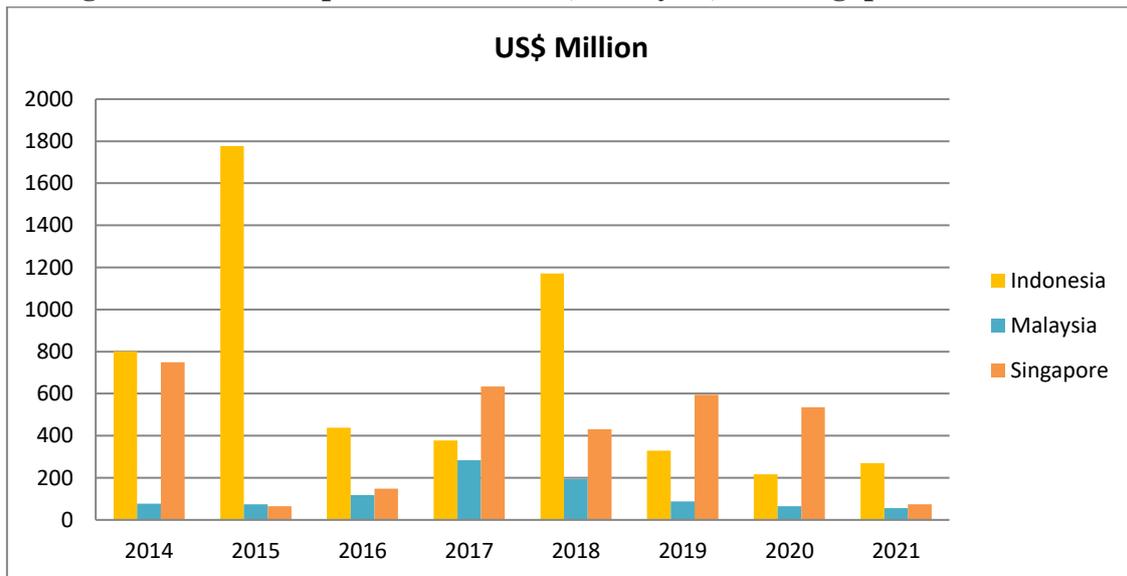
Source: (Authors).

To get to a solid foundation of resilience, a nation will never stop to continue to improve the military. In all countries, of course, this will not override the tendency for territorial integrity (Elden, 2006; Gudeleviciute, 2005). Although the flow of exports is smaller than imports, the military is a means of state defense to ward off, resolve, and take action against any threats related to inter-regional disputes. Marton (2008) that the state's territorial line needs to be maintained, so as not to become a polemic with other

countries. The imbalance in the export-import trade balance in weapons depends on the performance of the domestic arms industry.

Figure 6 confirm the level of dependence of Indonesia–Malaysia–Singapore on arms imports from other countries. In the inconsistent military spending phase in the 2014–2020 period, it is exposed that the net imports of Indonesian weapons tend to be higher than Singapore and Malaysia. Meanwhile, Indonesia's average arms imports were US\$ 672.65 billion (rank 1). The second and third places are Singapore (403.89 billion US\$) and Malaysia (119.43 billion US\$). In 2014, Indonesia carried out massive arms imports amounting to US\$ 801.09 billion. Also, 2017 was the period for the highest import of weapons from Malaysia, valued at US\$ 283.08 billion. In line with that period, Singapore also made import transactions from weapons manufacturers, reaching US\$633.6 billion.

**Figure 6 – Arms imports of Indonesia, Malaysia, and Singapore (2014–2021)**

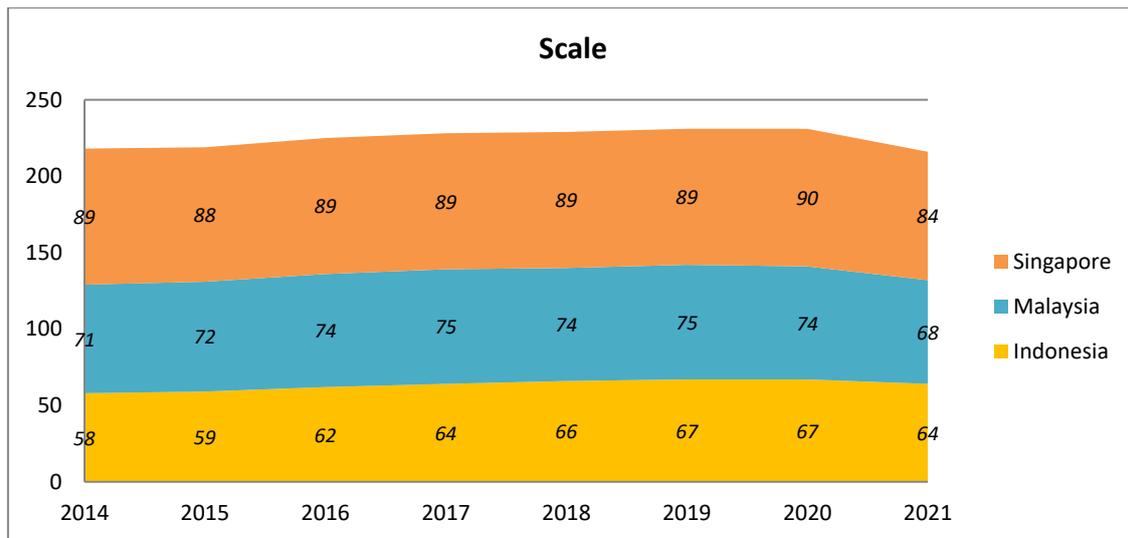


Source: (Authors).

Figure 7 shows the development of the economic freedom index in Malaysia and Indonesia, which are still far behind compared to Singapore. The Heritage Foundation (2021) puts Singapore in the first position as the country with the highest level of economic freedom in the world in 2021. During 2014-2021, Figure 7 also reports that the average economic freedom in Indonesia is 63.4 points. Following Singapore, the average index of economic freedom in Malaysia is quite high (72.9 points). Another detail explains that with the label of economic freedom as the most dominant at the

Asian level, Singapore affirms that there are guarantees that are conducive to financial, investment, trade, monetary, labor, business, fiscal, health, public spending, tax burden, government integrity, judicial effectiveness, and property rights. The freer the economy, the richer the population will be.

**Figure 7 – Economic freedom index in Indonesia, Malaysia, and Singapore (2014–2021)**



Source: (Authors).

The causality between military spending and economic freedom in China was examined by Atesoglu (2013). Empirical experience shows that China has become the dominant regional power at the Asian level, although the Chinese government's military spending is largely determined by the military spending of Russia and India. Even so, China's military spending appears to be influenced by the US and Japan. In a meta-analysis introduced by Awaworyi Churchill & Yew (2018), we find evidence that the effect of slowing growth in military spending explains the heterogeneity of economic freedom in developed countries compared to less developed countries. Moreover, in 55 developing countries, the existence of defense spending cannot generalize social structures, including freedom in the economy (Chowdhury, 1991). The abolition of defense spending by the government, of course, provides social and economic benefits for the public. Increased spending on military needs is seen as ineffective because it causes perpetual industrial fear (Sajid, 2021). In 70 developing countries, in the period 1990–2013, to be exact, Aziz & Asadullah (2016) reviewed the causality between

military spending to economic freedom. Externally, military spending harms the country's economy, while an increase in military spending creates new internal impacts, such as exposure to domestic conflicts that will affect economic freedom.

Military budget policies are not only meant to strengthen defense equipment but also bring a multiplier effect on GDP (Kennedy, 2017). Given that the EU is surrounded by threats or conflicts, increasing security is essential. Dudzevičiūtė et al. (2016) studying regulations on defense spending must ensure external or internal security. For groups of countries whose economy is hindered, defense spending is not given much attention. However, countries in the EU with bright economic prospects always leave (set aside) prioritizing defense budgets to carry out their economic development.

## Conclusion

This paper reaffirms the complexity of domestic security in realizing economic freedom. On topics relevant to 3 countries in Southeast Asia, the findings summarize many vital issues. Impressively, MS, GMS, and AI had no significant effect, but AFP and AE had a significant effect on EF in Indonesia, so that four hypotheses were accepted and one was rejected. Regarding Malaysia, three hypotheses were accepted, and the rest were rejected. According to the empirical output, MS, GMS, and AI have a significant effect on EF in Malaysia, but AFP and AE have no significant effect. In line with other statistical evidence, the case study in Singapore, is not much different from what happened in Malaysia. AE and AI have no significant effect on EF. The other three variables including MS, GMS, and AFP have a significant effect on EF. Without integrity, the government is considered a failure. The implication is that it will damage and disrupt the progress of a nation. Like a machine, economic freedom will bring a higher quality of life and prosperity. Meanwhile, countries that are at the bottom are usually burdened with oppressive regimes, which result in restrictions on people's freedoms. Criticism of policymakers, it is necessary to design appropriate macroeconomic policies. The government is required to increase economic freedom which is more accelerated so that preventive interventions are carried out to cut the level of corruption. Too, stakeholders also need to modify the flexibility of the labor market, simplify investment regulations, and strengthen the justice system. There are certain drawbacks to this paper. The benchmarks in economic freedom include respect for

private property, law enforcement, access to markets, and individual freedom, so these four dimensions need to be examined and discussed as complex comparisons for future research.

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