SISHANKAMRATA DEVELOPMENT STRATEGY IN MAINTAINING THE SUSTAINABILITY OF INDONESIA'S STRATEGIC INTERESTS

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Abstract: The development of that strategic environment can create both opportunities and threats for Indonesia. The integration of the main components, reserves, and support is the key to the success of Total People's Defense and Security System (Sistem Pertahanan dan Keamanan Rakyat Semesta; Sishankamrata) in defending Indonesia's strategic interests from all threats. For this reason, efforts are required to direct the development and fostering of the main components, reserves, and support planned in a state defense posture and guided by the concept of Sishankamrata. This study aims at developing a strategy for the Total People's Defense and Security System to face the development of the 21st century strategic environment. In this study, the SWOT analysis method, Interpretive structural modeling (ISM), and Balanced Scorecard (BSC) approach were used. Based on the results of the SWOT analysis on the development of Sishankamrata, there were 18 (eighteen) sub-strategies. Based on the results of the Interpretive structural modeling (ISM), it was discovered that the ST-1 sub-strategy, the formulation of defense policies expected that they do not overlap and be in line with the world maritime axis policy program, was the beginning of determining the development of the Sishankamrata strategy. Based on the implementation plan of Balanced Scorecard (BSC), it was uncovered that the financial perspective consists of 4 (four) sub-strategies; the internal process perspective consists of 5 (five) sub-strategies; the Growth & Development perspective consists of 6 (six) sub-strategies, and the Customer/User perspective consists of 3 (three) sub-strategies.

Key words: Sishankamrata (Total People's Defense and Security System), Strategic environment, SWOT analysis, Interpretive structural modeling (ISM), Balanced Scorecard (BSC)



1. INTRODUCTION

The development of this strategic environment can generate both opportunities and threats for Indonesia which must be addressed by the state defense system (sistem pertahanan negara; sishanneg) being able to take advantage of Indonesia's opportunities and advantages to maximize the achievement of Indonesia's strategic interests and ward off all threats to Indonesia's strategic interests arising from the dynamics of the development of the strategic environment (Ministry of Defence: 2015).

The integration of the main components, reserves, and support is the key to the success of Total People's Defense and Security System (Sistem Pertahanan dan Keamanan Rakvat Semesta: Sishankamrata) in defending Indonesia's strategic interests from all threats (Sundari: 2019). For this reason, efforts are required to direct the development and fostering of the main components, reserves, and support planned in a state defense posture and guided by the concept of Sishankamrata. Sishankamrata can be understood as the consistency and suitability of the results of the implementation of the Sishankamrata in carrying out its function to prevent all threats to Indonesia's strategic interests from time to time.

118

Based on these conditions. this study aims at developing a total people's defense and security system to face the development of the 21st century strategic environment having the potential to threaten Indonesia's strategic interests. For this reason, this study will discuss the development of a strategic environment that affects Indonesia's strategic interests as a basis for developing a valid and reliable Sishankamrata-based state defense posture. In this study, the SWOT analysis method, Interpretive structural modeling (ISM), and Balanced Scorecard (BSC) approach were used. The SWOT Analysis method is used to formulate a Sishankamrata development strategy. The ISM method is used to design the mapping between sub-strategic components. The BSC method is used for strategy implementation planning.

There are several previous studies as а reference. Those researches, among others, are Navy Ability Development Strategy using SWOT Analysis-Interpretive structural modeling (ISM) (Susilo, et al., 2019). Maritime Strategy Development To Encounter The Threat of National Sea Security In Indonesia Territory (Susilo, et al., Development of SWOT-2018). ISM based Reliability-centered maintenance (RCM) (Gupta, et al., 2018). The Development of a Cleaner Production Model and Applied Management Solutions for the Pharmaceutical Industry (Zadeh, et al., 2018). Analytical Network Process in the Framework of SWOT Analysis for Strategic Study: Decision Making (Case Technical Faculty in Bor, University of Belgrade, Serbia) (Živković, et al., 2015). SWOT - AHP Model For Prioritization of Strategies of The Resort Stara Planina (Nikolića, et al., 2015). SWOT Analysis Application for Indications of The Strategy Action Chosen Enterprise In The Construction Sector (Czajkowska: 2016).

Other researches ISM on and BSC, including Interpretive Structural Modeling (ISM) of Travel and Tourism Enablers (Roy & Misra, development 2016). Institutional Interpretive through strategy Structural Modelling (ISM) for gillnet fisher group in Barsela Aceh, Indonesia (Rizal, et al., 2016). Using Interpretive Structural Modeling to Determine the Relation between Youth and Sustainable Rural Development (Panackal & Singh, 2016). Developing a Robust Strategy Map in Balanced Scorecard Model Using Scenario Planning (Jafari, et al., 2015). The Impact of the Implication of Balanced Scorecard Model (BSC) in Performance of the Post Company (Iranzadeh, et al., 2017). Using the Balanced Scorecard for Performance

Evidence Evaluation: Empirical from the Listed Corporations in the Palestine Exchange (PEX) (Saad & Daraghma, 2016).

This study is limited to the security strategy in the development of the national defense posture. It is also limited to the strategy model with the SWOT-ISM-BSC business approach. This study is expected to provide input on the development of a national defense posture model. Moreover, it is also expected to be a reference in the context of defense strategy management.

This study consists of several Section 2 describes the parts. materials and research methodologies related to strategy theory, strategic management theory, total people's defense and security system (Sishankamrata), SWOT analysis Interpretive Structural theory, Modeling (ISM) theory, Balanced Scorecard (BSC) theory. This section also describes data collection and analysis, as well as flowchart diagrams. Section 3 describes the results and discussion of the study related to the development of the Sishankamrata model strategy, prioritization and mapping of substrategies, and implementation plans. Section 4 describes the conclusions from the study on the development of the Sishankamrata strategy in the context of the sustainability of Indonesia's interests in facing the dynamics of the 21st century strategic environment.





2. MATERIAL/METHODS

2.1. Strategy

Strategy is a word having many meanings, and all of them are relevant and useful to those tasked with setting strategies for companies, businesses, or organizations (Özleblebici, et al., 2015). The strategy comes from Greek, namely Stratego, which is defined as a plan to destroy the enemy by using resources effectively (Athapaththu: 2016). According to Ansoff (1969) in (Athapaththu: 2016) strategy is a guideline for decision making based on market scope, growth rate, competitive advantage, and synergy.

Currently, military forces face many challenges around the world. The five-step strategic risk assessment process should focus on several key issues such as (CSIS: 2013): 1) Understanding the strategic and operational environment and utilizing information; 2) Establishing strategic and operational conditions; 3) Projecting power; 4) Employing the power and ability to achieve strategic and operational objectives; 5) Protecting and maintaining power that is consistent with operational conditions; 6) Stopping military operations that are consistent with strategic and operational objectives.

2.2. Strategic Management

Strategic management is a set of managerial decisions and

120

actions determining a company's long-term performance. It includes environmental scanning (both external and internal). strategy formulation (strategic or long-term planning), strategy implementation, and evaluation and control. Therefore, strategic management research emphasizes monitoring and evaluating external opportunities and threats by considering the company's strengths and weaknesses (Wheelen & Hunger, 2012).

Strategic management can be defined as the art and science of formulating, implementing, and evaluating cross-functional decisions enabling an organization to achieve its goals. This definition implies that the strategic management focuses on integrating management, marketing, finance/accounting, production/operations, research and development, and information systems to achieve organizational success (David: 2011). The strategic management process consists of three stages: (1) Strategy formulation; (2) Strategy implementation; and (3) Strategy evaluation. Strategy formulation includes developing a vision and mission, identifying external opportunities and threats the organization, determining to internal strengths and weaknesses, setting long-term goals, generating alternative strategies, and selecting specific strategies to pursue. (David: 2011).





2.3. Total People's Defense and Security System (Sishankamrata)

When Indonesia claimed its independence, Indonesia has adhered to a total people's defense and security system (Sishankamrata) involving all components of the nation in fighting for and defending its independence from the invaders (Rinakit: 2005). The necessary capital to the success of Sishankamrata achieving in and maintaining Indonesian independence is the spirit of self-sacrifice and the integration of all components of the nation based on the Pancasila's noble values and love for the country to mobilize all of its resources as a defense force capable of warding off colonial powers. This concept is still clearly relevant to be applied in the current context in responding to various developments in the strategic environment possessing the potential to threaten Indonesia's strategic interests (Fatgehipon: 2017).

Sishankamrata is contained in the 1945 constitution of the Republic of Indonesia (UUD 1945) article 30, paragraph 2 stating that "State defense and security efforts are carried out through the total people's defense and security system conducted by the Indonesian National Army and the Indonesian National Police as a prime force, and the people are as a supporting force" (Reza: 2017). In its development, Law Number 3



SISHANKAMRATA DEVELOPMENT STRATEGY IN MAINTAINING THE SUSTAINABILITY OF INDONESIA'S STRATEGIC INTERESTS

of 2002 concerning State Defense Article 1 explains that "The national defense system is a comprehensive system involving defense all citizens. territories and other national resources, and is prepared beforehand by the government and is carried out in a total, integrated, directed, and continuous manner to uphold state sovereignty, territorial integrity, and the safety of the entire nation from all threats." Law Number 3 of 2002 further describes the Indonesian National Armed Forces (Tentara Negara Indonesia; TNI) as the main component and other national resources as a reserve and supporting component in increasing the strength and capability of the main components in confronting the military threats (Rabasa & Haseman, 2002). Meanwhile, further regulations regarding the reserve and supporting components of state defense in implementing the total people's defense and security system are regulated in Law Number 23 of 2019 concerning National Resource Management.

2.4. Strategic Environment

The strategic environment is an internal and external situation, both static (*Trigatra*) and dynamic (*Pancagatra*), influencing the achievement of the national goal. The aspect of *Trigatra* is a natural aspect, namely the geographic position and location of the country, the state and natural resources, the condition and the capacity of the population (Ramda & Supandi, 2020). Meanwhile, the aspect of *Pancagatra* is the social aspect /Ipoleksosbudhankam, ideology, politics, economy, socioculture, as well as defense and security (Priyono, et al., 2017).

discourse concerning The the concept of a nation-state and Indonesian nationalism is currently in a dilemma between the two great forces of globalization and ethnic nationalism being something that must be recognized as a change in the strategic environment (Privono, et al., 2017). This change also needs to realize that globalization with its free-market is a form of transnational neo-capitalism, or imperialism, contemporary and the tyranny of globalization which always tries to intervene in national policies and sovereignty. The biggest potential threat to the nation as a modern political community is when there is national disintegration by the weakening of the collective memory and the dysfunction of state institutions and decreasing the legitimacy of the nation's elite (Ministry of Defence: 2015).

The development trend of the strategic environment is increasingly unpredictable, thus placing upcoming developments full of uncertainty. The distance between countries is now no longer a barrier, while the nature of interdependence between countries



Vol. 12, Issue 1 (22)/2021

is getting bigger. The phenomenon or desire of separation within the country on the grounds of welfare and efforts to improve one's destiny will arise. The dynamic development of this strategic environment will directly or indirectly affect the shift in the national interests by the predicted threats to be faced by each country (Priyono, et al., 2017).

SWOT analysis is an analysis of the internal and external conditions of an organization which will then be used as a basis for designing strategies and work programs. The internal analysis includes an assessment of the factors of strength and weakness. Meanwhile, the external analysis includes opportunities and threats. the organization to soften the external threat and even then turn the threat into an opportunity.

c. WO Strategy (Divestment/ Investment)

This cell represents the interaction between organizational weakness and outside opportunities. This kind of situation provides an option in an ambiguous situation. The opportunities available are very convincing but cannot be exploited because the existing strengths are not sufficient to work on them. The choice of decisions taken is (releasing existing opportunities to be used by other organizations) or forcing to work on those opportunities (investment).

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SWOT Analysis Opportunity (O)		External Factors	
		Threat (T)	
Factor	Strength (S)	SO Strategy	ST Strategy
Internal	Weakness (W)	WO Strategy	WT Strategy
(2, 1, 1, 2, 2, 1, 0)			

 Table 1. SWOT Matrix Analysis

(Susilo, et al., 2019)

Informations:

a. SO Strategy (Comparative Advantages)

This cell is a meeting between strength and opportunity elements so that it provides the possibility for an organization to develop more rapidly.

b. ST Strategy (Mobilization)

This cell is an interaction between threat and strength. Here, the efforts must be made to mobilize resources which are the strength of d. WT Strategy (Damage Control)

This cell is the weak condition of all cells because it is the meeting between organizational weakness and external threats, and therefore a wrong decision will bring catastrophic disaster to the organization. The strategy that must be taken is Damage Control (controlling losses) so that it does not get worse than expected.



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2.5. Interpretive Structural Modeling (ISM)

Interpretive Structural Modeling (ISM) is a technique used in modeling that can synchronize the opinions of experts in providing a concrete picture of the hierarchical structure of the sub-elements of each system element and in finding key subelements and the character of each sub-element, as a useful knowledge base for planning an integrated and cross-sectoral agro-industrial development strategy (Abdullah, et al., 2014). ISM is a structuring tool in descriptive modeling techniques used primarily for assessment by a team but can also be used by a researcher (Gorvett & Liu, 2007). Structural models are generated to capture complex matters of a system through patterns designed using graphics and sentences. The contextual relationships between the sub-elements of the ISM technique can be grouped into several types and their interpretations (Sandbhor & Botre, 2014).

This ISM technique can be employed perform to program analysis by the vision and mission. Broadly speaking, the ISM technique is divided into two parts, namely: element classification and hierarchical arrangement. The first step needing to be done in the ISM analysis is to determine

124

the elements corresponding to the existing problems (Attri, et al., 2013). Furthermore, sub-elements are arranged for each selected element. Selection of elements and arrangement of sub-elements are carried out from the results of discussions with experts. The results of the assessment are arranged in a Structural Self Interaction Matrix (SSIM) which is made in the form of a Reachability Matrix (RM) table by replacing V, A, X, O into the numbers 1 and 0. The element classification is based on the Structural Self Matrix (SSM) based on the VAXO system, namely (Jadhav, et al., 2015):

> V if eij = 1 and eji = 0A if eij = 0 and eji = 1X if eij = 1 and eji = 1O if eij = 0 and eji = 0

The matrix is then converted into a closed matrix. It is done to correct the matrix to meet the transitivity rule, namely if A affects B and B affects C, A must affect C. The value 1 means that there is a contextual relationship between the ith element and the jth element, while $e_{ij} = 0$ means that there is no contextual relationship between the ith element and the jth element. Then, the SSM is converted into a reachability matrix by changing the VAXO to 1 and 0. Furthermore,

testing the transitivity rule was carried out until a closed matrix occurs. The matrix having met the transitivity is continuing with its process to obtain the reachability matrix, to obtain Driver Power (DP) and Dependence (D) (Panackal & Singh, 2016).

2.6. Balanced Scorecard (BSC)

The concept of the Balanced Scorecard has long been developed by Robert S. Kaplan and David P. Norton. The concept of the Balanced Scorecard was developed to complement financial performance measurement (also known as traditional performance measurement) and as an essential tool for corporate organizations to reflect creative thinking in the era of competitiveness and organizational effectiveness (Isoraite. 2008). The Balanced Scorecard is an integrated performance management system connecting various goals measures of performance and and organizational strategy. The Balanced Scorecard is a strategic management system defining а strategy-based accountability system. The Balanced Scorecard translates the organization's mission and strategy into operational objectives and performance measures in four perspectives, a financial perspective,

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a customer perspective, an internal business process perspective, and a learning and growth perspective (Kaplan & Norton, 2001).

This concept introduces a company performance measurement system using certain criteria. These criteria are an elaboration of the long-term mission and strategy of the company classified into four different perspectives (Niven: 2003):

1. Financial perspective.

How we are shareholderoriented.

2. A Customer perspective.

How we can become the most valuable main supplier for our customers.

3. Internal business process perspective

All best business processes must do, in the long and short term, to achieve financial goals and customer satisfaction.

4. Learning and growth perspective.

How we can consistently improve and generate value, especially concerning the ability and motivation of employees. In the Balanced Scorecard, the four perspectives become an inseparable whole. The four perspectives are also indicators of performance measurement complementing each other and have a causal relationship.





Fig. no. 2 Model Balanced Scorecard (Kaplan & Norton, 2001)

2.7. PESTEL Analysis

The PESTEL analysis describes a framework of macro factors used in the scanning environment for components of strategic management. This analysis is part of the external analysis when conducting strategic analysis and/or providing a different picture of the macro factors that should be taken into consideration (Rastogi & Trivedi, 2016). PESTEL analysis is an analysis of the external environmental factors of a business covering the political, economic, social, technological, environmental, and legal fields. PESTEL is used to assess the market of a business unit or organizational unit (Song, et al.,

2017). The direction of PESTEL analysis is a framework for assessing a situation, strategy or position, company direction, marketing plans or ideas. The factor of PESTEL plays an important role in creating profit value for a strategy usually occurring outside the control of an organization and normally taking into account threats and benefits (Strzelczyk & Chłąd, 2017).

The basis of the PESTEL analysis includes four factors (Rastogi & Trivedi, 2016):

1. Political.

These are factors which are basically how the government intervenes in the economy.



Vol. 12, Issue 1 (22)/2021

In particular, political factors include tax policies, labor laws, environmental laws, trade restrictions, rate, and political stability.

2. Economy.

Factors included in this aspect, such as economic growth, interest rates, exchange rates, inflation rates. These factors greatly affect how businesses operate and make decisions.

3. Social.

The factors included are aspects of culture and health awareness, population growth rate, age distribution, career, and emphasis on safety.

4. Technology.

The factors included technological aspects are research and development, automation, technology incentives, and the rate of technological change. Technological changes will affect cost, quality, and cause and will lead to innovation. 5. Environment/Ecology.

Whatever strategy and responsibility for the environment, it must be obeyed. Although this factor is relatively new, the environment has become a special concern for the last 15 years. Environmental factors can be used when doing strategic planning or trying to influence buyer's decisions such as geographic location factors.

6. Legal.

Legal factors include legal influences such as changes to existing or future laws (Examples: health and safety, job directions, human rights, corporate governance, and environmental responsibility).

PESTEL is used as an analysis of external factors on Green jobs. PESTEL is used to present the decision map. PESTEL is used to identify criteria for information systems research questions. PESTEL is used to evaluate factors as benefits or risks for the organization.

	-	1
NO	PESTEL CRITERIA	FACTOR ANALYSIS
		Infrastructure
1	Political	Government Policy
		Terrorism and Military Consideration
		Economic Growth
2	Economic	Natural Resources
		Wage Rates
		Demography
3	Social	Cultural Norms

Education

 Table 2. PESTEL Analysis of the Development of Sishankamrata



SISHANKAMRATA DEVELOPMENT STRATEGY IN MAINTAINING THE SUSTAINABILITY OF INDONESIA'S STRATEGIC INTERESTS

NO	PESTEL CRITERIA	FACTOR ANALYSIS	
4	Technological	Emerging Technologies	
		Technological Maturity	
		R&D Effort	
5	Ecological	Pollution	
		Workforce Health	
		Climate Change	
	Legal	Regional Laws	
6		Law Environment	
		Court System	

(Alshaher: 2013); (Rastogi & Trivedi, 2016)

2.8. Method/Stages

The research stage began with data collection by conducting interviews with six expert personnel (E1; E2; E3; E4; E5; E6). The experts becoming experts in the field of strategic environmental analysis and formulation of defense strategy policies are the Directorate General of Strahan of the Ministry of Defense, BIN, BAIS TNI, and Pusjianstra TNI, Defense and intelligence observers, as well as Think Tanks engaged in defense.

Data collection from experts related to the analysis of the development of a security strategy to sustain Indonesia's strategic interests in the future. After all, data are collected, the data are divided into 2, namely external and internal analysis. To find out the strengths and weaknesses within internal conditions related to strategy development of the S*ishankamrata* development strategy, and to find out the opportunities and threats, a SWOT analysis is used.

After the analysis was carried out, it was extended by developing 4 types of strategies, namely: Strength-Opportunity (S-O) Strategy, Weakness-Opportunity (W-O) Strategy, Strength-Threat Strategy (S-T), and Weakness-Threat (W-T) Strategy. The overall strategy will derive several related sub-strategies. The sub-strategies obtained will be compiled into strategic steps by forming a strategic map using the ISM method. Furthermore, a strategy implementation plan was formed using the Balanced Scorecard (BSC) framework.



Vol. 12, Issue 1 (22)/2021

2.9. Flow Chart



Fig. no. 3 Flowchart of Research

3. RESULT & DISCUSSION

3.1. SWOT Analysis – External Factor Analysis

of the Analysis external environment indicates the opportunities and threats faced in Sishankamrata development strategy in the context of sustaining Indonesia's interests in facing the 21st- century strategic environmental dynamics. The external analysis aims at gaining knowledge about new opportunities that can affect Sishankamrata development the

strategy. The core of this analysis is to be able to provide comprehensive information about external conditions to be used as a form of input in the form of a strategic planning process for the development of a security system.

To analyze external factors, the PESTEL (Political, Economic, Social, Technology, Environment, and Legal) analysis model is used. In PESTEL analysis, several factors are affecting external conditions. These factors are described in the xx table below:



Table 3. Analysis of External Factors of the Sishankamrata Development Strategy

No	PESTEL Critorio	Factor A polysic	Opportunity	Threat
	Criteria	Infrastructure	O1. Having a good basic infrastructure	
1	Political Governme Policy Terrorism & Military Considera	Government Policy	O2. The state's free and active politics O3. World maritime axis policy	T1. Partial policy
		Terrorism & Military Consideration	O4. Experienced in facing the threat of radicalism and left- wing extremism	T2. The threat of global terrorism T3. Non-traditional threats
		Economic Growth	O5. The increase of defense budget	T4.World economic uncertainty T5. China–United States trade war
2 Economic		Natural Resources	O6. Abundant alternative resources O7. Export some Main Weapon System to Regional	
		Wage Rates		T6. Per capita income is still below standard
3	Social	Demography	O8. Abundant productive age population	T7. Threat of population explosionT8. Threat from the right and left-side ideology
_		Cultural Norms	O9. High population militancy	T9. A high rate of social inequality
		Education	O10. The high-enough number of educated human resources	T10. The low level of the population education
4		E m e r g i n g Technologies	O11. Enhanced defense industry capability	
	Technological	Technological Maturity	O12. Technology transfer from friendly countries	
		R&D Effort	O13. The dynamic development of national technology	T11. Low R&D ability



Vol. 12, Issue 1 (22)/2021

No	PESTEL Criteria	Factor Analysis	Opportunity	Threat
		Pollution		T12. The threat of a global epidemic
5	Environment	Workforce Health	O14. The high life expectancy	
		Climate Change T13. Global cl change	T13. Global climate change	
6		Regional Laws		T14. A Dispute in the Natuna region
	Legal	Law Environment		T15. Overlapping legal governance
		Court System	O15. Fairly good cyber human resources	T16. Cyber system and network threats

Based on Table 3 above, there are 15 (fifteen) points for the opportunity analysis factor and 16 (sixteen) points for the constraint/ threat analysis factor identified on external factors.

3.2. SWOT Analysis – Internal Factor Analysis

Analysis of the internal environment aims at identifying several strengths and weaknesses contained in the total people's defense and security system (*Sishankamrata*) in the context of the sustainability of Indonesia's strategic interests. Consideration of the strengths and weaknesses of Sishankamrata is used to identify the advantages of Sishankamrata, competitiveness, strategic acuity in the context of the sustainability of Indonesia's interests in facing the dynamics of the 21st century strategic environment. Internal factors consist of elements of the world's maritime axis, Trigatra, Nawacita, conditions and demographic aspects. These internal factors provide derivatives in the form of several parameters consisting of 1) Integrative Defense; 2) Defense Force Development; 3) Deployment of Defense Force; Budgeting; 5) International 4) Defense Cooperation; 6) National Resources.

SISHANKAMRATA DEVELOPMENT STRATEGY IN MAINTAINING THE SUSTAINABILITY OF INDONESIA'S STRATEGIC INTERESTS



Fig. no. 4 Model Internal Factor Analysis

 Table 4. Analysis of External Factors of the Sishankamrata Development

 Strategy

No	Analysis Factor	Strength	Weakness
1	Integrated Defense	S1.Solidity between generations S2.Popular support S3.Policy lines align with government programs	W1.Minimal soldiers' welfare W2.The composition of the soldiers is still <i>Jawasentris</i> .
2	Defense Force Development	 S4.Abundant spare and supporting components S5.The largest military force in Southeast Asia S6.The synergy between the TNI and the people is quite good. 	W3.Defense policies and strategies are still partial W4.Lack of soldiers at the NCO / Enlisted level W5.Inadequate facilities and infrastructure W6.The low utilization of the national defense industry W7.Low R & D aspects



Vol. 12, Issue 1 (22)/2021

No	Analysis Factor	Strength	Weakness
3	Deployment of Defense Force	 S7. Good synergy between TNI and other stakeholders S8. Well combined operability S9. Having high mobility 	W8. The existence of non- traditional threatsW9. Main Weapon System still depends on non- alternative energy
4	Budgeting	S10. The country's economic capacity is quite good S11. The defense budget continues to increase every year	W10. Defense budget is still below standard (2% of GDP)W11. The defense budget is mostly for routine spending
5	International Defense Cooperation	S12. Joint training with Soldiers of other countriesS13. Technology transfer from friendly countries	
6	National Resources	 S14. Geographical position on world traffic lanes S15. As the largest maritime country in Asia S16. Having the largest defense industry in Southeast Asia S17. Abundant alternative energy 	 W12. Geographical position requires more supervision. W13. The geographical position is prone to crime at sea W14. The uneven spread of soldiers W15. Dependence on non- renewable energy W16. The defense industry still depends on foreign countries

Based on Table 4 above, there are 17 (fifteen) points for the strength analysis factor and 16 (sixteen) points for the weaknesses analysis factor identified on external factors.

3.3. SWOT Matrix

In a strategic plan, it is necessary to evaluate both external and internal factors. Analysis of the factors must produce the strength possessed by an organization, as well as find out the weaknesses existing in that organization. Meanwhile, the analysis of external factors must be able to identify the open opportunities to the organization and also be able to know the threats experienced by the organization concerned.



SISHANKAMRATA DEVELOPMENT STRATEGY IN MAINTAINING THE SUSTAINABILITY OF INDONESIA'S STRATEGIC INTERESTS

The SWOT matrix is a subjective analysis tool of business information classified into four parts to aid understanding, presentation, discussion, and decision-making. In this study, the SWOT matrix is employed to identify and describe how the opportunities and threats from the external environment in the organization in supporting *Sishankamrata* are anticipated with strengths and weaknesses.

Strengths	Opportunities
S1. Solidity between generations	O1. Having a good basic infrastructure
S2. Popular support	O2. The state's free and active politics
S3. Policy lines align with government	O3. World maritime axis policy
programs	O4. Experienced in facing the threat of
S4. Abundant spare and supporting	radicalism and left-wing extremism
components	O5. The increase of defense budget
S5. The largest military force in	O6. Abundant alternative resources
Southeast Asia	O7. Export some Main Weapon System
so. The synergy between the TNI and	to Regional
S7 Good combined operability	O8. Abundant productive age
S8 Having high mobility	population
S9. The country's economic capacity is	O9. High population militancy
quite good	O10. The high-enough number of
S10. The defense budget continues to	educated human resources
increase every year	O11. Enhanced defense industry
S11. Joint training with Soldiers of	capability
other countries	O12. Technology transfer from friendly
S12. Technology transfer from friendly	countries
countries	O13. The dynamic development of
S13. Geographical position on world	national technology
traffic lanes	O14. The high life expectancy
S14. As the largest maritime country in	O15. Fairly good cyber human
Asia S15 Having the largest defense	resources
industry in Southeast Asia	
S16. Abundant alternative energy	

Table 5. SWOT (SO-ST) Matrix Analysis



SO Strategy

- (SO)1. Infrastructure development is in line with government policy.
- (SO)2. Force solidity in support of the country's free and active politics.
- (SO)3. Additional productive age figures for the development of reserve and supporting components.
- (SO)4. A high life expectancy can be used to extend a soldier's productive life.
- (SO)5. The country's economic capability is supported by the Defense Industry component, and alternative resources can be utilized for the development of defense equipment.
- (SO)6. Military and economic power as well as free and active politics as balancing power in Southeast Asia in supporting policies on the world's maritime axis.

Strengths	Threats
S1. Solidity between generations	T1. Partial policy
S2. Popular support	T2. The threat of global terrorism
S3. Policy lines align with government	T3. Non-traditional threats
programs	T4. World economic uncertainty
S4. Abundant spare and supporting	T5. China–United States trade war
S5. The largest military force in	T6. Per capita income is still below
Southeast Asia	standard
S6. The synergy between the TNI and	T7. Threat of population explosion
the people is quite good.	T8. Threat from the right and left-side
S7. Good combined operability	ideology
S8. Having high mobility	T9. High rate of social inequality
s9. The country's economic capacity is quite good	T10. The low level of the population
S10. The defense budget continues to	education
increase every year	T11. Low R&D ability
S11. Joint training with Soldiers of	T12. The threat of a global epidemic
other countries	T13. Global climate change
S12. Technology transfer from friendly	T14. A dispute in the Natuna region
countries	T15. Overlapping legal governance
traffic lanes	T16. Cyber system and network threats
S14. As the largest maritime country in	
Asia	
S15. Having the largest defense	
industry in Southeast Asia	
S16. Abundant alternative energy	



ST strategy

- (ST)1. Formulating defense policies to avoid the overlap and being in line with the policy programs of the world's maritime axis.
- (ST)2. Empowerment of the TNI's ability to face the global threat, traditional terrorism, ideological threats, global epidemics, and cyber system & network threats.
- (ST)3. The increase in the defense budget to support defense research.
- (ST)4. Utilizing the ability of the TNI, reserve and supporting components to resolve the disputed area of Natuna.

	Weaknesses	Opportunities
W1.	Minimal soldiers' welfare	O1. Having a good basic infrastructure
vv∠.	is still Jawasentris.	O3. World maritime axis policy
W3.	Defense policies and strategies are still partial	O4. Experienced in facing the threat of radicalism and left-wing
W4.	Lack of soldiers at the NCO /	extremism
W5.	Inadequate facilities and	O5. The increase of defense budget O6. Abundant alternative resources
W6.	The low utilization of the	O7. Export some Main Weapon System to Regional
W7.	Low R & D aspects	O8. Abundant productive age
W8.	The existence of non-traditional threats	O9. High population militancy
W9.	Main Weapon System still depends on non-alternative energy	ollo. The high-enough number of educated human resources Oll. Enhanced defense industry
W10.	Defense budget is still below standard (2% of GDP)	Capability O12. Technology transfer from friendly
W11.	The defense budget is mostly for routine spending	countries O13. The dynamic development of
W12.	Geographical position requires more supervision.	national technology O14. The high life expectancy
W13.	The geographical position is prone to crime at sea	O15. Fairly good cyber human resources
W14.	Uneven spread of soldiers	
W15.	Dependence on non-renewable energy	
W16.	The defense industry still	
	depends on foreign countries	

Table 6. SWOT (WO-WT). Matrix Analysis



WO strategy

(WO)1. A gradual increase in the defense budget to 2% of GDP

(WO)2. The acceptance of TNI soldiers by not concentrating on the Java region as the distribution of the composition of the soldiers.

(WO)3. Development of domestic defense equipment by prioritizing alternative energy.

(WO)4. The increase of the ability of defense equipment through technology transfer from friendly countries.

(WO)5. Development of defense infrastructure with priority areas outside Java.

(WO)6. Increasing the number of soldiers at the NCO/Enlisted level by taking advantage of the abundant productive age figures

	Weaknesses		Threats
W1.	Minimal soldiers' welfare	T1.	Partial policy
W2.	The composition of the soldiers	T2.	The threat of global terrorism
	is still Jawasentris.	T3.	Non-traditional threats
W3.	Defense policies and strategies	T4.	World economic uncertainty
	are still partial	T5.	China–United States trade war
W4.	Lack of soldiers at the NCO /	T6.	Per capita income is still below
1115	Enlisted level		standard
w 5.	indequate facilities and	T7.	Threat of population explosion
W6	The low utilization of the	T8.	Threat from right and left-side
W 0.	national defense industry		ideology
W7	Low R & D aspects	T9.	High rate of social inequality
W8.	The existence of non-traditional	T10.	The low level of the population
	threats		education
W9.	Main Weapon System still	T11.	Low R&D ability
	depends on non-alternative	T12.	The threat of a global epidemic
	energy	T13.	Global climate change
W10.	Defense budget is still below	114.	A dispute in the Natura region
	standard (2% of GDP)	115. T16	Overlapping legal governance
W11.	The defense budget is mostly for	116.	Cyber system and network
J. W12	routine spending		threats
W12.	Geographical position requires		
W12	The geographical position is		
W 13.	prope to crime at sea		
W14	Uneven spread of soldiers		
W15.	Dependence on non-renewable		
	energy		
W16.	The defense industry still		
	depends on foreign countries		



WT strategy

(WT)1. Empowerment of the existing number of soldiers in overcoming the effects of globalization.

(WT)2. Maximum use of the budget in supporting the operation of the TNI's Main Duties.

Based on the identification of various internal and external factors on Table 5 and Table 6, for the next step, it can be formulated strategic factors. The existing internal and external factors are then combined to determine an alternative strategy for the development of *Sishankamrata*. Based on the results of the SWOT matrix analysis, the SO Strategy consists of 6 (six) sub-strategies; The WO strategy consists of 6 (six) sub-strategies; ST strategy consists of 4 (four) sub-strategies; and the WT strategy consists of 2 (two) sub-strategies. Furthermore, all the strategic steps will be compiled into one, so that there are 18 (eighteen) sub-strategies of *Sishankamrata* development. The compilation of these strategies is described in Table 7.

 Table 7. Formulation and Compilation

 of the Sishankamrata Development Strategy

Strategy Compilation			
SO Strategy			
(SO)1. Infrastructure development is in line with government policy.			
(SO)2. Force solidity in support of the country's free and active politics.			
(SO)3. Additional productive age figures for the development of reserve and supporting components.			
(SO)4. A high life expectancy can be used to extend a soldier's productive life.			
(SO)5. The country's economic capability is supported by the Defense Industry component, and alternative resources can be utilized for the development of defense equipment.			
(SO)6. Military and economic power as well as free and active politics as			
balancing power in Southeast Asia in supporting policies on the world's			
maritime axis.			
ST strategy			
(ST)1. Formulating defense policies to avoid the overlap and being in line with			
the policy programs of the world's maritime axis.			
(ST)2. Empowerment of the TNI's ability to face the global threat, traditional			
terrorism, ideological threats, global epidemics, and cyber system & network			
threats.			
(ST)3. The increase of the defense budget to support defense research.			
(ST)4. Utilizing the ability of the TNI, reserve and supporting components to			
resolve the dispute area of Natuna.			



WO strategy

(WO)1. A gradual increase in the defense budget to 2% of GDP

(WO)2. The acceptance of TNI soldiers by not concentrating on the Java region as the distribution of the composition of the soldiers.

(WO)3. Development of domestic defense equipment by prioritizing alternative energy.

(WO)4. The increase of the ability of defense equipment through technology transfer from friendly countries.

(WO)5. Development of defense infrastructure with priority areas outside Java.

(WO)6. Increasing the number of soldiers at the NCO/ Enlisted level by taking advantage of the abundant productive age figures

WT strategy

(WT)1. Empowerment of the existing number of soldiers in overcoming the effects of globalization.

(WT)2. Maximum use of the budget in supporting the operation of the TNI's Main Duties.

3.4. Interpretative Structural Modeling (ISM)

Prioritization and strategy mapping begin with forming а hierarchical system between previously identified aspects. The formation of a hierarchical system using the Interpretative Structural Modeling approach. This method aims at planning the chosen strategy to be described in the implementation on a hierarchical plan based arrangement.

In the SSAT development strategy, the ISM method steps are as follows:

a. Structural Self Interaction Matrix (SSIM).

SSIM is a stage to determine the dominant variables from the results of the SWOT analysis to determine the level of the relationship between the sub-strategies.

b. Reachability Matrix (RM).

Furthermore, based on the table about the SSIM matrix, it is then made in the form of a Reachability Matrix (RM) table by replacing V, A, X, O into numbers 1 and 0.



No	Code	18	17	16	15	14	13	12	11	10	6	8	7	9	S	4	e	2	-
1	(SO)1	0	0	0	Α	0	0	>	Α	Α	0	0	A	Ν	Α	0	0	0	ı
7	(SO)2	0	A	0	0	0	0	0	0	A	0	A	A	>	0	0	0		
e	(SO)3	×	>	×	0	0	0	A	0	>	0	A	A	>	A	A	1		
4	(SO)4	0	>	>	0	0	0	>	0	N	0	>	0	0	0	ı			
S	(SO)5	>	0	0	>	Α	A	0	Α	Λ	Α	>	A	Λ	ı				
9	(SO)6	0	0	0	0	A	0	0	A	x	A	x	A	ı					
7	(ST)1	0	Λ	>	>	Λ	2	>	Α	Λ	Α	>	ı						
×	(ST)2	x	x	0	0	Α	>	0	Α	x	Α	ı							
6	(ST)3	0	0	0	2	Α	Λ	0	x	Λ	ı								
10	(ST)4	Α	0	0	Α	0	Α	Α	Α	ı									
11	(WO)1	N	0	0	Λ	Λ	Λ	0	ı										
12	(WO)2	0	0	0	x	0	0	ı											
13	(WO)3	Α	0	0	Α	Х	ı												
14	(WO)4	A	0	0	0	I													
15	(WO)5	Α	Α	Х															
16	9(OM)	Х	Λ	ı															
17	(WT)1	X	ı																
18	(WT)2	1																	

Table 8. SSIM Model in Research

140

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SISHANKAMRATA DEVELOPMENT STRATEGY IN MAINTAINING THE SUSTAINABILITY OF INDONESIA'S STRATEGIC INTERESTS

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No	Code	1	2	e	4	S	9	7	æ	6	10	11	12	13	14	15	16	17	18	DP	Level
1	(SO)1		0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	e	16
2	(SO)2	0	-	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	7	18
3	(SO)3	0	0	-	0	0	-	0	0	0	-	0	0	0	0	0	0	-	-	S	10
4	(SO)4	0	0		-	0	0	0	-	0	-	0	-	0	0	0	-	-	0	7	7
S	(SO)5	-	0	-	0	-	-	0	-	0	-	0	0	0	0	-	0	0	-	×	5
9	(SO)6	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0	0	0	e	16
۲	(ST)1	-	1	-	0	-	-	-	-	0	-	0	-	-	-	-	-	-	0	14	1
8	(ST)2	0	1	-	0	0	-	0	-	0	-	0	0	-	0	0	0	-	-	~	5
6	(ST)3	0	0	0	0	-	-		-	-	-	-	0	-	0	-	0	0	0	6	3
10	(ST)4	-	1	0	0	0	-	0	-	0	1	0	0	0	0	0	0	0	0	S	10
11	(WO)1	-	0	0	0	-	-	-	-	-	-	-	0	-	-	-	0	0	-	12	2
12	(WO)2	0	0	-	0	0	0	0	0	0	-	0	1	0	0	-	0	0	0	4	14
13	(WO)3	0	0	0	0	1	0	0	0	0	1	0	0	1	1	0	0	0	0	4	14
14	(WO)4	0	0	0	0	1	1	0	1	1	0	0	0	1	1	0	0	0	0	9	8
15	(WO)5		0	0	0	0	0	0	0	0	1	0	1	-	0	-	-	0	0	9	8
16	9(OM)	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	5	10
17	(WT)1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	-	0	1	-	S	10
18	(WT)2	0	0	1	0	0	0	0	1	0	1	0	0	1	1	1	1	1	1	6	3

Journal of Defense Resources Management

Vol. 12, Issue 1 (22)/2021

SISHANKAMRATA DEVELOPMENT STRATEGY IN MAINTAINING THE SUSTAINABILITY OF INDONESIA'S STRATEGIC INTERESTS

Element structure in Table 9 above shows that the ST-1 sub-strategy, namely the formulation of defense policies to avoid overlap and being in line with the world maritime axis policy program, is the starting point for determining the Sishankamrata development strategy. Sishankamrata's policies and strategies constitute unanimity in policies and strategies in the fields of foreign policy, domestic politics, national defense and national security. The deployment and use of defense forces are based on the Sishankamrata Doctrine and strategy implemented based on the consideration of threats faced by Indonesia.

The last structural element is the SO-2 sub-strategy, namely the solidity of the force in supporting the country's free and active politics. For the deployment and use of defense forces to be carried out effectively and efficiently, it requires synergy solidity between military elements and other military elements, as well as between military forces and nonmilitary forces. Solidity between military elements is manifested in the integration of Trimatra, namely the integration of land forces, sea power and air power. Meanwhile, the integration between military and non-military forces are realized in the integration between the main components, the reserve components and the supporting components. Such solidity is required in the mobilization and use of defense forces, both in the context of dealing with traditional threats and non-traditional threats.

3.5. Map and Strategy Implementation Plan

The strategy map demonstrates how each performance can support the achievement of the organization's overall strategic goals. The strategy map helps organizations, especially in visualizing what is needed to carry out and support the strategy for developing a total people's defense and security system (Sishankamrata). The strategy map will make all organizational actors easier to monitor the progress of strategy implementation. The analysis of the results of the strategic map design connects the Balanced Scorecard with the designed strategy, namely the development of a total people's defense and security system (Sishankamrata).



Vol. 12, Issue 1 (22)/2021



Fig. no. 5 Sishankamrata Development Strategy Map

A strategy map is a description of the vision and missions of the organization's goals and the steps needed to achieve the organizational goals. This map allows the organization to delegate responsibilities from the leadership level to individual executors. Strategy mapping is a diagram depicting how an organization creates value by linking strategic objectives explicitly regarding causal relationships with each other grouped under four Balanced Scorecard perspectives. Strategy mapping can also be interpreted as a strategic part of the Balanced Scorecard framework to describe strategies for value creation. In this study, strategy mapping is specifically used to translate the

Sishankamrata development strategy plan.

Based on Figure 5, Strategy balanced mapping within the scorecard framework consists of 4 (four) perspectives. The financial perspective consists of 4 (four) sub-strategies: 1) Formulation of defense policies to avoid the overlap and being in line with the policy programs of the world's maritime axis (ST-1); 2) Gradual increase in defense budget up to 2% of GDP (WO-1); 3) Utilization of the budget maximally in supporting the operations of the TNI's Main Duties (WT-2); 4) Increasing the defense budget to support defense research (ST-3).

The internal process perspective consists of 5 (five) sub-



strategies: 1) The country's economic capability supported by the Defense Industry component, and alternative resources can be utilized for the development of defense equipment (SO-5); 2) Empowerment of the TNI's ability to face the global threat, terrorism, ideological traditional threats, global epidemics, and cyber system & network threats (ST-2); 3) High life expectancy can be used to extend the productive life of soldiers (SO-4); 4) Development of defense infrastructure with priority areas outside Java (WO-5); 5) Increasing the ability of defense equipment through technology transfer from friendly countries (WO-4).

The Growth & Development perspective consists of 6 (six) sub-strategies: 1) Increasing the number of productive age for the development of the reserve and supporting components (SO-3); 2) Utilizing the capability of the TNI. reserve components, and supporting components to resolve the territorial dispute of Natuna (ST-4); 3) Increasing the number of soldiers at the non-commissioned officer (NCO)/Enlisted level by utilizing the abundant productive age figures (WO-6); 4) Empowerment of the number of soldiers in overcoming the effects of globalization (WT-1); 5) Acceptance of TNI soldiers by not concentrating on the Java region as

144

the distribution of the composition of soldiers (WO-2); 6) Development of domestic defense equipment by prioritizing alternative energy (WO-3).

The Customer/User perspective consists of 3 (three) sub-strategies: 1) Military and economic strength as well as free and active politics as balancing power in Southeast Asia in supporting policies on the world's maritime axis (SO-6); 2) Infrastructure development in line with Government policy (SO-1); 3) Force solidity in supporting the country's free and active politics (SO-2).

4. CONCLUSIONS

The development of this strategic environment can create both opportunities and threats for Indonesia. For this reason, it is necessary to develop a strategy for the total people's defense and security system to deal with the developments of the strategic environment in the 21st century allowing the potential threaten Indonesia's strategic to interests. Based on the results of the SWOT analysis on the development of Sishankamrata, there were 18 (eighteen) sub-strategies, distributed into the SO Strategy consisting of 6 (six) sub-strategies; The WO strategy consists of 6 (six) sub-strategies; ST strategy consists of 4 (four) sub-

strategies; and the WT strategy consists of 2 (two) sub-strategies.

Based on the results of the Interpretive modeling structural (ISM), it was discovered that the ST-1 sub-strategy, the formulation of defense policies expected that they do not overlap and be in line with the world maritime axis policy program, was the beginning of determining the development of the Sishankamrata strategy. The last structural element is the SO-2 sub-strategy, namely the solidity of the force in supporting the country's free and active politics. Based on the balanced scorecard implementation plan, it is found that the financial perspective consists of 4 (four) sub-strategies, the internal process perspective consists of 5 (five) sub-strategies, the growth & development perspective consists of 6 (six) sub-strategies, the customer/ user perspective consists of 3 (three) sub-strategy.

Future Work (Further Research)

- In further research, in supporting the strengthening of internal factors, Potter 5 Forces strategy analysis can be added.

- In further research, it is necessary to add a sensitivity analysis aspect to the *Sishankamrata* development strategy.

- Further research can add a dynamic system analysis model as

a simulation of the implementation of the *Sishankamrata* development strategy.

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