

## **The Development of Defense Science as a part of Philosophy**

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### **Abstract**

The study of philosophy developed and recognized as an effort to study and comprehended the use of science, both in terms of its substance, its acquisition, or its benefits of science for human life. Along with it, the philosophy has a close relation to science which create another field of study. One of the examples is the study of defense that developed into the study of defense science. As the defense is important to the life that concerned about the protection of human which subsequently evolve to a complex knowledge linked to the situation which brings people to think about defense not only for ourself, but also for the people around us, environment, nation or even a world whom also needs a protection. Today's, defense science is also become a multidisciplinary, interdisciplinary, and transdisciplinary as a part science that gets along with the expand from the understanding of philosophy.

**Keywords:** Philosophy, Science, Defense



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### **INTRODUCTION**

Through the times, the meaning of philosophy by science is continued by Donny Gahril Adian (2002) who defined the Philosophy of Science as a branch of philosophy that tries to study science in terms of the characteristics and ways of obtaining it. Also, from The Liang Gie (2010) who viewed the Philosophy of Science as the relationship of science with all aspects of human life and all reflective thinking on issues concerning all matters regarding the foundation of science. Whereas the science itself is the completement form of human effort to figure something out by paying attention to the object being studied, how it is used, and what is the use of the science. Basically, a science needs proof because it usually used for academic, theoretical, or conceptual framework. The proof has passed several or any certain process before it concludes as a science, and it all start with a simple common sense. After passing the process of practical procedures, it goes to the factual and systematic thinking about a particular object procedure to create a scientific knowledge which known as science.

According to that, it leads to a present of philosophy of science which also has undergone various developments in meaning. Many experts provide different understandings of the Philosophy of Science. However, an understanding of the meaning of philosophy and the meaning of science will be very helpful in understanding the definition and meaning of the Philosophy of Science. Philosophy of Science is an effort to study and deepen knowledge or science, both in terms of its substance, its acquisition, or its benefits of science for human life.

Along with this, defense is present along with the present of any science that become a various study. Even defense simply defined as protection or the act of guarding. Defense is important in our daily life, come from a general thinking about how to protect our own-self, defense subsequently evolve to a complex knowledge linked to the situation which brings people to think about defense not only for ourself, but also for the people around us, environment, nation or even a world needs a protection. From this point we can get that defense later develop into a knowledge that come from the human critical thinking.

Since then, it will follow by the activities to review and analyze what is on people mind by understanding the common term philosophy which discussed about defense itself in accordance to the phenomena that usually happened in everyday life. Afterward, it will raise science talking about what is defense and people able to look for more detail about it at the expert definitions about defense. Through all the process defense, then it began to commonly known as a science which will also evolve to the general study and raise into a philosophical science.

In fact, all living creatures, including humans, need a sense of security from all kinds of danger, anxiety, and fear. A sense of security must be created and then maintained perpetually. The presence of philosophy is to sustain a sense of security encourages people to think about seeking various knowledge to understand why they have to survive, survive from what, survive from whom, and how to survive. Philosophically also speaking that it is to protect the adhered values or norms; protect natural resources (source of wealth), ensure the survival and development of life (existence), fight injustice (colonialism, slavery), and defending truth or sovereignty. Therefore, basically everything is based on philosophy, as it starts from the common understanding where it also the same thing as an example of preparing what will be going on future. Same as what explained before that defense is come from the question around how to protect ourself, then later it developed into a broader question related to it.

### **Concept Understanding**

Basically, everything is based on philosophy, as it starts from the common understanding where it also the same thing as an example of preparing what will be going on future. Same as what explained before that defense is come from the question around how to protect ourself, then later it developed into a broader question related to it. Where the philosophy is known as an ideal medium for interpreting and conveying such expectations. As the philosophy provides the historical basis, contextual relevance, and contemporary reality to both expectations and outcomes in thought provoking and meaningful ways (Henry, 2013). This what makes the philosophy has many branches.

Along with that, philosophy also connected to the sciences. The definition of philosophy according to the Cambridge Dictionary of Philosophy defines as the scientific branch is centered on a critical examination of the sciences and or the methods and results. Meanwhile the science exists as a consequence to the human existence which was the discover the ignorance of things that human did not know, and the follow-on realization that human can do something about this situation until it discovered the things up. Since that, it was the beginning of science (Harari, 2014). Then, the science known as the systematic observation, creation, analysis, and modelling of patterns which exist in the physical universe (Mickens & Patterson, 2016).

However, the importance and significance aspect of science is that it provides us with public knowledge (Popper, 1959) such as the knowledge that is available to anyone to examine, test, criticize, and generalize (Ziman, 1968). In accordance to that, defense was also inseparable as a part of science where science was connected to the other field of study, one of the examples in political study. Where in political science perspective, defense also known as a concept that is inseparable from life. Although today the conception of defense is extremely complex (George Gerö, 1951), but the early definition of defense was characterized as an intentional process. Where the process there developed until it can be connected to the general definition of defense that comes up as the reaction of any action or attack, and by extension all means and measures of identification of harm or risk, as well as a form of protection or a response.

## **RESULT AND DISCUSSION**

From the concept understanding point, it can be understood that the philosophy is the first science before it builds any other branches of study which also in line with the present of defense science. By this, all the knowledge about defense can developed more and take part as the philosophy of science and create a new form of study which is defense science. Moreover, defense will also bring a new form study related with any other interdisciplinary and create a new form of studies which not only talking about defense, but into a broader discipline of defense science itself, such as defense diplomacy, defense technology, defense industry and many more that have a relation with the defense concept. This is also will be one way as an effort to aligned the defense science in the same position with the Sciences that have existed for a long time before defense science exist.

In the study of philosophy of science, the discussion of science is always related to ontology, epistemology, and axiology dimensions. Science always tries to explain the reality as it is, while morals serve as the ideal state of human life. Where in science, it should be based on morals, because science without morals would lead to destruction to humans and other God's creatures. Therefore, the products of scientific activities in Defense Science are also aiming in generate the alternatives in strategic decision-making on the basis of ethical and moral considerations, because there will be signs of conflicting values on those ethical and moral considerations in the reality of Defense Science application. Where the Defense Science might eradicate war or, at least, minimize the negative consequences of war to human life.

As well as defense science can be defined as a science that studies not only the proper conducts of war (military campaigns, and war strategies), but also the conducts for preventing wars (deterrence, and diplomacy) and conducts for ending wars with dignity (ceasefire and peace treaty). The definition of defense science will develop in accordance with the development of the strategic environment. Discourses may also emerge to develop, add insight, and refine the definition of defense science. Together with the present of a broader discipline of defense science itself, it can take the defense science to be recognized as an exact science and its use will be in line with other old sciences that have existed before. Remembering where in facts that every single thing which is exist in this world are matters.

The same as the defense itself, where it is something that is important in our life as important as the other sectors for the fields of science. Although, Defense Science is a relatively new discipline and still requires more formal or informal discussion to develop and stipulate particular facts and concepts, paradigms, and definitions in accordance with the philosophy of science in order to place it in equal position to other disciplines. However, defense Science also possesses knowledge structure that develops and equalize it to other sciences in general. Because as a science, Defense Science also has various subjects, methods, theories, and supporting research methodologies. Where the definition of defense science explained by Supriyanto (2014) who stated it as the science and art that studies the potential national resources in a country's possession to be converted as a national power in times of peace, deployed in times of war (armed conflict), and at the post-war period, for dealing with threats originating from outside and within the country, both in the form of military and non-military threats to the context of attaining national security.

Then, as a knowledge, defense science also has some characteristics, such as universal where defense science departs from a phenomenon that is continuously researched and observed for its development, the empirical-Based where defense science has been learned in various university which aiming at developing studies and research in the field of defense, also it is communicable and progressive because it can be communicated among the academics and wider community. Defense Science also has scientific structure that builds and characterizes it

like other branches of science in general and integrated to support each other. In certain types of society, defense science can develop rapidly, and vice versa. The community cannot function properly without the support of scientific development and defense application within an entity. Even sometimes, defense science is known as the cultural product. The relationship of Defense Science is various, such as its relation with Religion and Faith, Morality and Morale, Cultural Development Influence, Humans Health, and Leadership. Furthermore, the Defense Science is designated as a Cluster of Social Sciences, which are parallel to Social Science, Economic Science, Psychological Science, and connected to other social sciences.

Defense Science has the realm of state security, which is closely related to security that belongs to the realm of police or public order and law enforcement in accordance with applicable laws and regulations to stop anarchism shall it escalates to a dangerous level toward the society, political stability, and state security. The definition of defense science will develop in accordance with the development of the strategic environment. Discourses may also emerge to develop, add insight, and refine the definition of defense science in order to more understood about it.

Nevertheless, it is acknowledged that there is still a necessity for a more intense discourse to place Defense at equal position to other existing sciences. However, the development of defense Science also has been passed several scientific structures that builds and characterizes it like other branches of science in general and integrated to support each other. In certain types of society, defense science can develop rapidly, and vice versa. The community cannot function properly without the support of scientific development and defense application within an entity. Therefore, it can be fully justified that the defense science can be applicable in a general science because it has a close relation to the science itself.

## **CONCLUSION**

Through all the explanation by all of the empirical generalization that has been made so far as an explanation by concluding the relations between the important from the value of defense in daily life which gave a support in the presence and understanding of the defense science. The same thing goes in line with philosophy of science, which was known as an effort to study and deepen the understanding of science, both in terms of its substance, its acquisition, or even its benefits of science for human life. Hereby, it can be acknowledged that nowadays defense science is also becoming to be more multidisciplinary, interdisciplinary, and transdisciplinary as a part science which evolve from the philosophy itself. As the time goes by, there will always be a close relation between the development of philosophy, science, and defense.

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