

USING QUADRONOMETRY AND ZERO – WASTE MANAGEMENT FOR MILITARY TACTICS

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ABSTRACT

As per the 1987 Constitution of the Republic of the Philippines, Article 2, Section 3: Civilian authority is, at all times, supreme over the military. The Armed Forces of the Philippines is the protector of the people and the State. Its goal is to secure the sovereignty of the State and the integrity of the national territory. Also, according to Article 7 Section 18, paragraph 1: The President shall be the Commander-in-Chief of all armed forces of the Philippines and whenever it becomes necessary, he may call out such armed forces to prevent or suppress lawless violence, invasion or rebellion. Furthermore, in Article 14 Section 10: Science and technology are essential for national development and progress. The State shall give priority to research and development, invention, innovation, and their utilization; and to science and technology education, training, and services. It shall support indigenous, appropriate, and self-reliant scientific and technological capabilities, and their application to the country's productive systems and national life.

We, the Filipino citizens of this Philippine Republic, shall have the right to have peace and order, with integrity while enjoying the sovereignty that emanates to us. Article 2, also known as the Declaration of Principles and State Policies, states in the following selected sections here as follows;

Section 1: The Philippines is a democratic and republican State. Sovereignty resides in the people and all government authority emanates from them.

Section 2: The Philippines renounces war as an instrument of national policy, adopts the generally accepted principles of international law as part of the law of the land and adheres to the policy of peace, equality, justice, freedom, cooperation, and amity with all nations.

(Section 3 is already stated from above mention)

Section 4: The prime duty of the Government is to serve and protect the people. The Government may call upon the people to defend the State and, in the fulfillment thereof, all citizens may be required, under conditions provided by law, to render personal, military or civil service.

Section 5: The maintenance of peace and order, the protection of life, liberty, and property, and promotion of the general welfare are essential for the enjoyment by all the people of the blessings of democracy.

So in this action research, we are going to discuss the another application of my newly invented mathematical concept known as Quadronometry with the supplementation of the zero – waste management so that it might be discussed to the President of this Philippine Republic. This action research aims to expose the possible alternatives and innovations for the Armed Forces of

the Philippines with the use of Quadronometry and the zero – waste management as innovations for military tactics and armaments that would help the entire Philippines to maintain its sovereignty and strengthening the national integrity and security of all Filipino people.

CONTENT AND RATIONALE

The scope of this action research aims to justify the need of Quadronometry model and the zero – waste management applied to the innovations for military tactics and strategies. The research paper will review all the basic concepts in Quadronometry, the definition of zero – waste management and the related literature which are the fundamentals in military tactics and strategies. As stated from abovementioned legal bases why we need to conduct this research, yours truly will try to figure out the conceptual and theoretical framework of the study in which the application of Quadronometry and the Zero – Waste Management will be a good innovation for the military tactics and strategies for the sake of strengthening the Armed Forces of the Philippines. Admitting the fact, this might take too long for the process of defending it to all experts in scientific and intellectual fields especially that majority of this paper are very theoretical, very intangible. However, with the use of the foregoing expert opinions and principles when it comes to generalizing the ideas of military tactics and its modern applications, this might be a foundational guide to produce tangible products.

This research aims to explore and to expose all kinds of histories governing the call of conducting such study in order to find out the ongoing process of combining the Quadronometry model principles and the Zero – Waste Management to help the Armed Forces of the Philippines. It is truly a great clamor to help the President of this Philippine Republic to strengthen the mobility of the Armed Forces just to ensure the safety and security of our country's sovereignty and to prevent so – called bullying from other states or nations.

As brief background in the Philippine History, the Armed Forces of the Philippines had experienced so many challenges in protecting and securing our national territory. As the Philippine history goes, during the Second World War, President Jose P. Laurel placed the Philippines under martial law via Proclamation No. 29, dated 21 September 1944 and enforced the following day at 9:00 PST. Proclamation No. 30 was issued on 23 September, declaring the existence of a state of war between the Philippines and the United States and the United Kingdom, effective 10:00 that day.

The country was under martial law again from 1972 to 1981 under President Ferdinand Marcos by the virtue of Proclamation No. 1081, signed on 21 September 1972 and came into force on 22nd of September 1972. The official reason behind the declaration was to suppress increasing civil strife and the threat of communist takeover, particularly after a series of bombings (including the Plaza Miranda Bombing) and an assassination attempt on Defense Minister Juan Ponce Enrile in Mandaluyong.

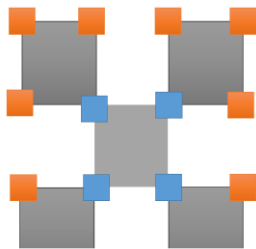
On 4th of December 2009, President Gloria Macapagal Arroyo officially placed the Province of Maguindanao under a state of martial law through Proclamation No. 1959. As with the last imposition, the declaration suspended the writ of habeas corpus in the province. The announcement came days after hundreds of government troops were sent to the province to raid the armories of the powerful Ampatuan clan. The Ampatuans were implicated in the massacre of 58 persons, including women from the rival Mangudadatu clan, human rights lawyers, and 31 media workers. Cited as one of the bloodiest incidents of political violence in Philippine history,

the massacre was condemned worldwide as the worst loss of life of media professionals in one day.

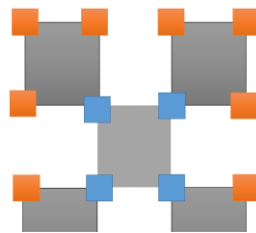
On 23rd of May 2017, President Rodrigo Duterte declared Martial Law throughout the main southern island of Mindanao, through Proclamation No. 216, due to the attack of Maute Group in Marawi City, Lanao del Sur. It was announced in a briefing in Moscow by Secretary Ernesto Abella, and will be in effect until December 2019.

It is the call for this action research to be a documentation for the literary analysis on how to help theoretically the President of this Philippine Republic to repel those who are threatening our sovereignty and at least preventing possible invasion or rebellion in this country.

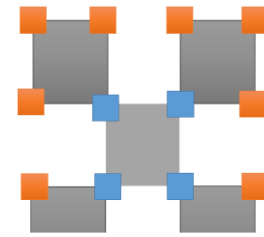
CONCEPTUAL AND THEORETICAL FRAMEWORK



Stage 1: Methods of Waste Segregations will be converted to the Levels of attacking system in Quadronometric Model



Stage 2: Using the Methods of Waste Segregations, the state shall invest for dummy Armed Forces



Stage 3: Armed Forces Proper using the Quadronometric Formation

To explain further, at stage 1 the different methods of segregation which are papers, cardboard, plastics, wood/leather/rubber, textiles, glass, scrap metal, compost, residuals and hazardous wastes shall be the hierarchical level of attacking the opponents, provided that each segregation method has its own recyclable feature. For example, making a recyclable armaments using or made up of papers and so to other wastes.

Furthermore, at stage 2 where in the next attacking phenomenon will be the recycled dummy Armed Forces made up of the abovementioned segregation method.

Lastly, at stage 3 which is the final wave of attack is the Armed Force Proper by which they must follow still, the Quadronometric Formation.

The framework will help the research study to investigate and to visualize further the proper description on how the new principle of tactics work for the Armed Forces, this is all because we need to help all the front – liners in Military to conserve more energies and armaments as they can win the battle more often.

STATEMENT OF THE PROBLEM

Every nation desires a commitment for peace and order, not just only intra – perspective but also inter – perspective. That is why in this action research, will try to expose the literary analysis and documentations by puzzle fitting the principles and the historical attributions of our country so that for the next generations to come, we can

always make ourselves ready for these phenomena of peace and order, integrity in sovereignty and for every citizen's welfare.

According to Article 7 Section 18 of the 1987 Philippine Constitution: The President shall be the Commander-in-Chief of all armed forces of the Philippines and whenever it becomes necessary, he may call out such armed forces to prevent or suppress lawless violence, invasion or rebellion. In case of invasion or rebellion, when the public safety requires it, he may, for a period not exceeding sixty days, suspend the privilege of the writ of *habeas corpus* or place the Philippines or any part thereof under martial law. Within forty-eight hours from the proclamation of martial law or the suspension of the privilege of the writ of *habeas corpus*, the President shall submit a report in person or in writing to the Congress. The Congress, voting jointly, by a vote of at least a majority of all its Members in regular or special session, may revoke such proclamation or suspension, which revocation shall not be set aside by the President. Upon the initiative of the President, the Congress may, in the same manner, extend such proclamation or suspension for a period to be determined by the Congress, if the invasion or rebellion shall persist and public safety requires it.

As stated, our country requires public safety in times of war or at least, preventing a possible war by which the proclamation of martial law and suspension of writ of *habeas corpus* might be required to declare in case of lawless acts such as invasion or rebellion. Many in our Philippine history went through these events in the lives of the People wherein lawless violence arose. We know that it is not hidden in our memories about the previous or yesteryears of administration when it comes of those threats of treasonous acts or culpable violations against the Constitution. Thus, we need to consider this proposal of Quadronometric application with zero – waste management.

REVIEW OF RELATED LITERATURE

“Quadronometry is mathematics of infinite imagination of rules to create massive differences after the replication of four – sided figures. This mathematical invention desires to conceptualize some inventive ideas that are yet to be discovered in architecture, engineering, visual arts, analytic geometry, *military tactics and strategies through armaments and artilleries*, and other fields that need some useful applications of mathematics especially of my invention. Quadronometry is the mathematics of replication.”

- John Austin B. Mendoza, LPT
Author/Inventor, Quadronometry

The abovementioned essay was written by yours truly in the book entitled “Quadronometry”. This newly invented mathematical concept has a theoretical desire to be utilized in order to give significant contributions to military tactics and strategies through armaments and artilleries. As you have seen from above conceptual and theoretical framework that tried to abstractly define this research. But what do we mean by military tactics? It is to encompassing the art of organizing and employing fighting forces or near the battlefield. It is very different to military strategies, in which strategy means a careful plan or method for achieving the maximum advantage to combat against

the enemy. There are some tactics and strategies that the Armed Forces using. These are fire attacks, force concentration, night combat, reconnaissance and smoke screening. If small unit, they use leapfrogging, basic drills, hull – down, shoot and scoot, infiltration tactics, marching fire, patrolling, ambush and most famous, guerilla system. These tactics can be used to be partner application with Quadronometry and with the Zero – Waste Management,

Let us now define Zero – Waste. It is a set of principles focused on waste prevention that encourages the redesign of resource life cycle so that all products are reused. The definition adopted by Zero Waste International Alliance (ZWIA) as the conservation of all resources by means of responsible production, consumption, reuse, and recovery of all products, packaging, and materials, without burning them, and without discharges to land, water, or air that threaten the environment or human health.

As stated from abovementioned meaning of zero – waste, this will become very opposite to what we need to apply, they are advocate with pro – health principles yet this will be used for the Armed Forces in order to become so innovative or modern in armaments since they will use recyclable wastes and turning them into very violent purpose. However, we can actually say that “cleanliness is next to godliness”, wherein those people who want peace and order and harmony deserve to have their utmost cleanliness and healthiest quality kind of life. But for those embracing war and chaos, they deserve a very unhealthy and unpleasant environment.

There are some methods in waste segregation: paper, cardboard (including packaging for return to suppliers), glass (clear, tinted – no light bulbs or window panes, which belong with residual waste), plastics, textiles, wood/leather/rubber, scrap metal, compost, special/hazardous waste and residual waste. After the segregation, this will eventually be processed in recycling or reusing so that they can still be used by men. Recycling is the process of converting waste materials into new materials and objects. Now this is the time that we are going to combine the concept of Quadronometry and the Zero – Waste management by this phenomenon: it was posted in website theguardian.com last September 3 2012, by Marc Abrahams, that there was a patent has been granted for an invention by which soldier sealed inside vehicles during combat can dispose of their biological waste by firing it at the enemy.

Aleksandr Georgievich Semenov patented an efficiently disgusting weapon system. Using his method, soldiers inside an armored tank, under battle conditions, can disposed of their biological waste products in a non – wasteful way: encasing those materials, together with explosives, in artillery shells that they then fire at the enemy. The patent was granted to Semenov last 2009, officially titled Method of Biowaste Removal From Isolated Dwelling Compartment of Military Facility and Device or its Implementation. If we are going to adapt this patented invention, applying the formation of Quadronometry, we can have the maximum advantage to protect and win the victory against the harmful forces of the State’s enemies.

METHODOLOGY AND RESEARCH DESIGN

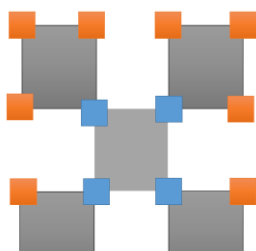
This research will make use of a literature review and documentary analysis – a system of a qualitative research where in based on the expert opinions and the historical documentations of the past records of some very remarkable parts of Philippine History

as a process of thematic analysis with application of Quadronometry and Zero – Waste Management to the military tactics and strategies for the Armed Forces of the Philippines. The form of data analysis will be a transcript related literature whose justified defining focus are:

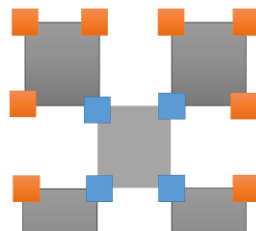
1. The model of Quadronometry as an application for strengthening the military troops. The formation of Quadronometry will be used in order to be a supplemental principle for military tactics and strategies that was made mentioned earlier.
2. The process of Zero – Waste Management in order to help the Armed Forces to have recyclable materials be converted into alternative and modernized armaments.

The use of Quadronometry and Zero – Waste Management are the primary processes involved in order to visualize the theory of helping the Armed Forces of the Philippines to have a more innovative actions in making armaments and artilleries and modern military formations. Furthermore, this action research will try to discuss this to the President of this Philippine Republic in order to find out some suggestive ideas in accordance with this theory for strengthening the Philippine Territory’s integrity and sovereignty as the Commander in Chief is always committed to be the head of state and the highest representative of the civilian authority in this Philippine Republic. As you have reviewed from the historical records of the Philippine Republic, there is always a growing clamor to maintain the public safety and the peace and order within the territory of this Philippine Republic.

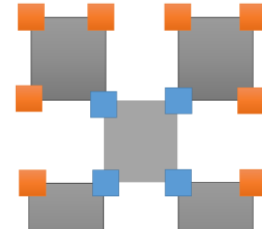
Let us go back to the conceptual and theoretical framework...



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Furthermore, at stage 2 where in the next attacking phenomenon will be the recycled dummy Armed Forces made up of the abovementioned segregation method. Dummy Armed Forces means these are the props or fake soldiers or policemen which are made up of recycled or reused materials so that they can trick and attract those opponents to be defeated easily.

Lastly, at stage 3 which is the final wave of attack is the Armed Force Proper by which they must follow still, the Quadronometric Formation. The Quadronometric formation will always be applying the different military tactics and strategies, with the aid of the military armaments and artilleries which are also supplemented with armaments and artilleries made up of recycled and reused materials.

The framework will help the research study to investigate and to visualize further the proper description on how the new principle of tactics work for the Armed Forces, this is all because we need to help all the front – liners in Military to conserve more energies and armaments as they can win the battle more often.

Recalling some parts of the related literature, the concept of Quadronometry and the Zero – Waste management by this phenomenon: it was posted in website theguardian.com last September 3 2012, by Marc Abrahams, that there was a patent has been granted for an invention by which soldier sealed inside vehicles during combat can dispose of their biological waste by firing it at the enemy.

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By combining the phenomena, we can be able to suggest to the Head of State of this Philippine Republic on how to process the recycled armaments with applications of Quadronometry formation of attacks and defenses with inspired yesteryears existing military tactics and strategies. How? Let us now come up with the conclusions and recommendations below:

CONCLUSIONS AND RECOMMENDATIONS

1. Propose a bill in the Congress to enhance and expand the advocacy to collate all wastes for segregation and for strong implementation of zero – waste management so that those collated and segregated wastes shall be sent to the Department of Science and Technology to create or invent a massive recycling machines that would enable to create armaments and artilleries made from recycled wastes. It is written in the Philippine Constitution, Article 14 Section 10: *Science and technology are essential for national development and progress. The State shall give priority to research and development, invention, innovation, and their utilization; and to science and technology education, training, and services. It shall support indigenous, appropriate, and self-reliant scientific and technological capabilities, and their application to the country's productive systems and national life.* Furthermore, it is also in the law so called the RA 9003 or the Ecological Solid Waste Management Act

- of 2000 wherein it is a response to the looming garbage problems in the country. RA 9003 declares the policy of the state in adopting a systematic, comprehensive and ecological solid waste management program that ensures the protection of public health and the environment and the proper segregation, collection, transport, storage, treatment and disposal of solid waste through the formulation and adoption of best environmental practice.
2. Conduct a Quadronometry seminar and workshop whose resource speaker is yours truly (Mr. John Austin B. Mendoza, LPT) and the audiences are preferably all the members of the Armed Forces of the Philippines. This will be an opportunity to discuss to them how the theory of new mathematical concept be applied in military tactics and strategies with the aid of the zero – waste management, dealing with the use of recyclable materials to make them as military armaments and artilleries. If possible, there will be a clamor to propose a bill to the Congress of the Philippines that Quadronometry will be an integral part for military principles.
 3. *“However, we can actually say that ‘cleanliness is next to godliness’, wherein those people who want peace and order and harmony deserve to have their utmost cleanliness and healthiest quality kind of life. But for those embracing war and chaos, they deserve a very unhealthy and unpleasant environment.”* This was actually made mention in the review of related literature, it is somehow very opposite to the advocacy of pro – environment people against to the principles of this research: applying the zero – waste management through recycling materials as armaments, which is an anti – environment schemes, putting the lives in danger, whether they are the friends of the State or the enemies of the State. However, we have an alternative solution for this problem by taking this endeavor:
 - Particular places in the Philippine territory with very prone of possible extreme lawless acts, invasion or rebellion shall build respective immediate provisions of the zero – waste related inventions, provided that the waste materials of the places with very prone in lawless acts shall surrender to the authority governing the process of segregation and making the proposed invention of military artilleries and armaments made up of recyclable materials. This might ensure that the President would be able to suppress the lawless acts, invasion or rebellion in that particular area or possible, to prevent such. In other words, these vulnerable places shall be the priority of being integral parts of this project of the theory in zero – waste and Quadronometry.
 - Those places in the Philippine territory with least possible of extreme lawless acts, invasion or rebellion shall be part of the advocacy in suppressing or preventing the lawless plans of the enemies of the State. These places which are very somehow, generally peaceful shall help those who are vulnerable places by donating their wastes as additional supply to create armaments and artilleries made up of these wastes to be recycled. In this way, we can minimize the possible air – borne or water borne effect of the wastes in which they are possible to be suspended or diffused in the environment after the war event.

REFERENCES

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- Quadronometry by John Austin B. Mendoza, LPT