

Factors Affecting Environment-Based Crime Prevention Planning of the Community Volunteers in Thailand

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Abstract

This is the study on the factors affecting environment-based crime prevention planning of the community volunteers in Thailand. The environment-based crime prevention is important but in the community of Thailand, there is still lack of importance paid by the government in planning the environment-based crime prevention. Therefore, this research should be conducted with the objective to study the factors affecting environment-based crime prevention planning of the community volunteer in Thailand. This study is the qualitative research. The population is selected by random sampling. The samples determined here include related people in the community, community volunteers, and the police station. The in-depth interviews were done to the area being awarded the Outstanding Community Relations Action Program in 2015 and being the areas with crime reduction statistics. The researcher will conduct the in-depth interviews with the sample group consisting of 10 persons of police station administrators and community administrators of each area totaling 40 people. The research results reveal that some factors affect the environment-based crime prevention planning. For the internal factors, it is found that all aspects are the factors affecting the crime prevention. For the external factors, it is found that all aspects are the factors affecting the crime prevention appropriately in reducing the occurrence of crime in the area.

Keywords: Crime, Environment, Planning, Community

Introduction

Edwin H. Sutherland and Donald R. Cessy (1978: 45) describe the problem of crime that destroys the society both physical and property. Therefore, the crime is the threat to the peace of the nation and causes the loss of life, body, property and freedom of crime victims as well as people living in the society. The crime tendency causes more violence. According to the statistics of the case of crimes against property in the total of 10 years since 2005-2014, the birth rate has reached 228,810 cases divided into 1) 206,376 cases of burglaries for 79 percent, 2) 15,238 cases of property snatching for 5.8 percent, 3) 87 case of blackmail for 0.03 percent, 4) 1,195 cases of extortion for 0.46 percent, 5) 1,863 cases of stealth (injured) for 0.7 percent, 6) 6,548 cases of stealth (not injured) for 2.53 percent, and 7) 4,051 cases of robbery for 1.56 percent (National Statistical Office, 2015: 67). It can be noticed that the increasing trend has intensified even more to be the problems that cause public panic. The important agency directly responsible for the crime prevention is the police officer who must cooperate in performing crime prevention activities in order to prevent any misconduct in the society. The police also have the duty to

arrest the offenders according to the law. The measures that the police use in crime prevention are the prevention and elimination of chances to prevent crime. As there are guilty behaviors towards society that cause crime to be made in violation of the law, there must be the guideline for collecting evidence for the arrest process in order to be successful in this crime prevention. Besides, it is necessary to encourage people to act as good citizens in helping informing the clues of the offenses for the arrest of the offenders.

There are many ways to prevent crime and it is very important to reduce the chances of criminals to commit crimes. The environment-based crime prevention is another important way to prevent crime by adopting the relationship between people and the local environment outside with various influences that contribute to crime prevention in communities that are conducive to prevent crime. This corresponds to the concept of C. Ray Jeffery (1977: 34) discussing the concept of environment-based crime prevention by studying the decisions of criminals to commit or not commit crimes depending on the risks of being arrested. In order to prevent criminals to reduce crime, the criminals must be punished. The areas at risk must be detected in accordance with the strategies of environment-based crime prevention for reducing the crime, reducing the fear of crime, and improving people's quality of life. The measures responsible by Royal Thai Police in resolving crime are defined as strategies and guidelines for achieving the goals. The plan is set for crime prevention allowing police to promote participation and good relations with people.

In addition, the prevention of crime by the context of environment of the area and culture of Thai society according to the idea of Purachai Piemsomboon (2013: 22) discusses that the environment-based crime prevention is the abstract environment having the relationship of people in the society. The crime prevention measures that require cooperation among the community members can be created for helping observing and monitoring the community as well as the cooperation of people in the area to rotate, revise and inspect the areas near their own homes in the community. The investigation must be on the environment (physical) such as at the entrance and on the road in the village with the security guard. The buildings and shops along the road and in the alley must be able to observe the strangers to prevent crime in the community with the light on the roads. However, the environment-based crime prevention in Thailand has not received enough attention from government agencies. It lacks the serious management on the environment-based crime prevention by the government and it still lacks the research studies in Thailand. They are mostly foreign researches about the environment-based crime prevention. Therefore, it causes crime in various areas of Thailand. It can be seen that the nature of environment management in the community also affects the increase or decrease of crime in the area as well. Thus, the environment-based crime prevention should be researched in order for various agencies to be able to further defining the appropriate policies by applying factors to prevent crime. The studied environment from literature review of the researches can be synthesized into internal factors and external factors leading to environment-based crime problem solving.

In this issue, the researcher has studied the factors of environment-based crime prevention in the community by studying the areas that have been awarded the Community Relations Police Program which is the project of Royal Thai Police, National Office Strategy in the Fiscal Year 2015 in the strategy of public participation and network of police operations in both the government sector and people in resolving crime and providing strong services. The project is held to select the outstanding Community Relations Police operation of the year 2015. The police doing good deeds have been honored and rewarded for the duty of being the community

relations police in collaboration with people, government, and private agencies in environment-based crime prevention. The project is organized to praise, promote, and disseminate the results of the police officers who perform the duty of the community relations police and to be the morale for the police officers assigned to perform the duty of the community relations police operations including the following areas; 1) Phothong Police Station, Ang Thong Province, 2) Chum Phae Police Station, Khon Kaen Province, 3) Sung Men Provincial Police Station, Phrae Province 4) Si Banphot Police Station, Phatthalung Province. The operations on the mission of police in environment-based crime prevention create the cooperation in sharing ideas and decisions in the care of life and property safety which is the cooperation of networks, government agencies and people sector, namely, communities, clubs, volunteers. Therefore, the mission of environment-based crime prevention can then reduce the crime in the areas which have been awarded the Outstanding Community Relations Police Action Project for the year 2015 and are the areas that have reduced the number of crime in environment-based crime prevention that can enhance the quality of life and well-being of people in the areas.

Theories on the Factors That Affect the Environment-Based Crime Prevention Planning

The study on the "Factors that affect the environment-based crime prevention planning in the Thai community" is from the study of literature reviews and researches related to the environment-based crime prevention on both internal factors and external factors derived from the synthesis of researches related to the factors affecting the environment-based crime prevention as follows; 1) The internal factors include fear of crime, leadership, participation, and culture, 2) The external factors include network, technology, policy, satisfaction on the performance; 3) The environment-based crime prevention factors. The concept of environment-based crime prevention was developed in 1971 by C. Ray Jeffery (1977: 34) who proposed the Theory of Crime Prevention through Environmental Design (CPTED) using the principles of learning from nature. As the crime is often caused by the motive of criminals in seeing an unhealthy physical environment, the design of suitable environmental areas can reduce crime and reduce fear of crime. The environment-based crime prevention consists of 4 main principles as follows; 1) Surveillance is to help one another in observing those who are going to commit the crime by causing the risk of being watched by behaviors such as warning by neighbors, installation of CCTV cameras, etc., 2) Access control is to specify that only one entrance can be used in order to prevent the outsiders from entering the area easily, 3) Personal space zoning is for creating the feeling of possession of space by clearly separating the territory between personal areas and public areas in order to prevent the outsiders from encroaching on personal space, and 4) Maintenance and management is to take care and maintain the housing in the well-organized conditions to show that there are people living in the house at all times as the crime prevention. In addition, there are many academicians who have proposed the ideas of environment management have the same opinions. Danielle M. Reynald (2010: 121) studied the crime prevention using CPTED concept as a tool to take care of the country. It is the confirmation of the effectiveness of CPTED theory that has been used for the success in the administration of the rulers to take care of the areas for safety to monitor the risk points and assist in the investigations in the workplace In preventing the crime for the safety of the community, surveillance of the area based on natural environment is one of the principles of CPTED. The objectives are to study the physical space design as the surveillance for residents and to apply CPTED theory for the environment-based crime prevention. The research area is

Hague, the Netherlands. The monitoring of usage is done on the large sample group of 2,847 people. This is the qualitative research by observing and interviewing about the form of CPTED theory that has seen the elements of theory. It is an application of experiences and motivation development of CPTED theory and the concept of a variety of surveillance. There are consistent viewpoints and different perspectives on research issues from research synthesis related to environment-based crime prevention factors. This corresponds to the idea of Paul Michael Cozens (2005: 65) studying the Crime Prevention through Environmental Design (CPTED): Modern viewpoints. The objective of study is to assess the participation in Crime Prevention through Environmental Design as the crime prevention strategy. The research area is the United Kingdom. It is the qualitative research conducted by interviewing. The research results reveal that Crime Prevention through Environmental Design is effective in reducing crime and fear of crime in the community. The study is on each element such as surveillance, maintenance, control on the access of the area, activities, and goals for the effectiveness of CPTED. The researches support and confirm that Crime Prevention through Environmental Design is the serious and effective crime prevention tool. The future researches are important in preventing burglary crime in order to monitor urban areas, the environmental area of crime prevention, and CCTV. Summarizing the insights presented in this review clearly shows that CPTED can effectively reduce crime and fear of crime. CPTED is the best possible work and method systematical for the effectiveness assessment.

Therefore, the theories relevant to the crime prevention in Thailand can be considered in 2 dimensions including 1) the dimension of abstract environment, 2) the dimension of concrete environment. For the theories of environmental management for crime prevention that is suitable for Thai society and culture, the researcher then chooses to apply the theory of environment-based crime prevention disseminated in Thailand by Purachai Piemsomboon (2012: 22). According to the theory of environment-based crime prevention, it can be summarized as follows: 1) concrete environment (physical) includes urban planning of the community by providing utilities to suit crime prevention and surveillance observation to increase crime prevention in the areas such as installing CCTV cameras, lighting along the road at night with one-way access control to restrict the outsiders so that they are not easily accessible in the area. More importantly, the houses must be maintained and managed to remain in good condition, 2) abstract environment (relationship of people in society). The good relationship must be built in the community by organizing the activities in the community, providing information on crime prevention advice, and getting acquainted with neighbors to help one another. The volunteers are provided to help and call to report to the local police or police patrols for providing information to police officers promptly.

Research Methodology

Population and Sample

The research on "Factors affecting environment-based crime prevention planning of the community volunteers in Thailand" is the qualitative research selecting the population groups by random sampling. For this research, the selection of samples is considered by the researcher to select the samples in order to use the information obtained from the qualitative research methodology to process the data leading to the findings. The sample group is determined from those who involved in the community and the police station. The in-depth interview is conducted with the areas awarded the Outstanding Community Relations Police Action Project Award 2014 which is the project under the Royal Thai Police Office National Office Strategy 2014 in the fiscal year of 2014 in the strategy of public participation and the network of police operations in

both public sector and people sector. In solving crime problems and providing services with strength to be the area with crime reduction statistics in Phrae community police station area, the researcher conducts the in-depth interviews with the samples of 10 police officers and community administrators of each province totaling 40 people consisting of 1) 1 Superintendent of the Police Station, 2) 1 Deputy Superintendent of the Police Station, 3) 1 Inspector of the Prevention and Suppression Division, 4) 1 Deputy Inspector of the Suppression Division, 5) 1 Squad Leader (acting in preventing and suppressing operations), 6) 1 Community President, 7) 4 Community Committees.

Data Collection The data collection process from the studies and researches of document data to be used as the guidelines for designing, creating an in-depth interview was conducted by the researcher during August 2015 by using structured interview. The researcher requested the cooperation from organizations and individuals representing the sample group to request for an official interview to survey the information on environment-based crime prevention. In addition, the in-depth interview with non-participant observation was also used together with the Focus Group Discussion.

Data Analysis Regarding the analysis of data obtained from in-depth interviews, the researcher used data obtained from in-depth interviews to use in the data analysis and processing procedure by working together with the process of collecting information from studies and researching information from documents. The analyzing processes and methods include the data analysis by considering the main issues to consider and divide into sub-issues and sub-topics. The analytical processes start from the overall picture to analyze the sub-issues. Besides, the operation of the reflection process in each phase together to enhance the accuracy more And in-depth interviews with the description of phenomenal information in conjunction with the findings From the process of qualitative research methodology which is an important guideline that can lead to the preparation of recommendations for determining the essence of crime prevention factors by the environment

In analyzing the data obtained from in-depth interviews, the researcher used the data obtained from in-depth interviews for the data analysis and processing together with the process of collecting information from studies and researches on the documents. The analyzing processes and methods include the data analysis by considering the main issues to consider and divide into sub-issues and sub-topics which are analytical processes starting from the overall picture to analyzing sub-issues. In addition, the operation of the reflection process in each phase is conducted together to enhance more accuracy. Besides, the in-depth interviews is supported with the description of phenomenal information in conjunction with the findings from the process of qualitative research methodology which is an important guideline that can lead to the preparation of recommendations for determining the essence of environment-based crime prevention factors.

Research Results

Internal factors affecting environment-based crime prevention

Fear of crime: The fear of crime is from the behavior of fear of crime. That the community members collaborate with police officers to monitor the strangers can reduce the fear of crime in the area. From the statistics of crime in the area, the crime in the area is decreased causing people in the area not to be afraid of crime. *"... In the past, in the area of Sri Banphot, there were communist whose people did not cooperate with the police and often used violence against police officers. Until now, the police officers can build relationships with the community causing people*

not to be afraid of crimes in the areas that are at risk. Moreover, people cooperate with one another to prevent crime as well ... " (Sri Banphot Community Committee, 2016).

Furthermore, reducing the fear of crime can be realized through awareness of community crime information in the area of crime. "... People in the community have perception behavior on the crime in the community by helping warning when seeing strangers behaving precariously and helping coordinating with the police in the operation ..." (*Phothong Community President*, 2016).

Leadership: Local leaders in the community have the vision of work by setting guidelines to lead the organization to achieve its goals. The conflict is reduced with the ideology of creating homeland love in their own area along with the behavior that the leader is a good role model for the acceptance of others. "... *Leaders have the vision for the ever-changing situation of today's globalized society with the ideology of realizing their homeland and difficult to develop as a local without crime in the area foreseeing to create inspiration for the local people to feel that they are part of the community ...*" (Inspector of Suppression of Chum Phae Police Station, 2016).

Having the behavior of individual follower to support in work by using responsibility distribution method and work decision and teaching by leaders as mentors for work can create the work achievement and efficiency. "... *in the area, there are leaders helping to support their subordinates in the work, such as work equipment, car fees, fuel costs when having to go to the work areas. The head will provide knowledge, support and training in work making everyone work altogether well ...* " (Deputy Superintendent of Sri Banphot Police Station, 2016).

Participation: Participation is an opportunity for everyone in the organization to have a role to work for making the subordinates work fully by transferring knowledge to create cooperation in working altogether. "... *building the relationship with the head and subordinates in the work can create happy work which will make the good work performance and create the good working atmosphere as well as the unity of work. The subordinates are possibly sent to trainings, seminars, activities causing more happiness in work ...* " (Inspector of Suppression of Sung Men Police Station, 2016).

Granting the opportunity can help driving and supporting the work by starting from the planning of people and participation in supporting local decisions with the police allowing people to take part in the responsibility. "... *to allow people to take part and participate in supporting work in pondering, solving problems and making choices for the community can be done through the meeting process to create the decision making in the operation. It is an activity that people in each village and each alley need to discuss in order to analyze various methods of determination ...* " (Community President, Chum Phae Police Station, 2016).

Network: Thinking and analyzing problems altogether of the group members in meetings every month to express and exchange the opinions and develop the strength altogether through the cooperation of member networks can be done by recruiting local leaders who everyone can collaborate among network members with the links to people or organizations. "... *The collaboration of network members is linked to people or organizations including local leaders, police officers, temples, schools that are willing to voluntarily achieve the goal of environment-based crime prevention with the exchange of news and activities altogether leading to the goal of environment-based crime prevention...* " (Deputy Superintendent of Phothong Police Station, 2016).

Good cooperation among members who have exchanged new experiences, learning in the work of the network can lead to the good relationship in helping one another. There are exchanges of

ideas on goals, values and visions altogether in working. *"... the relationship creates the exchange process between the group of chiefs and subordinates where the supervisors accept the needs of the subordinates in order to work for achieving the specified objectives or perform the duties successfully following the plan, budget allocation, and control. This idea has to be applied and developed to those who come to study in our community ... "* (Inspector of Suppression of Sung Men Police Station, Phrae Province, Northern region).

External factors affecting environment-based crime prevention

Culture: Thought, ideology, succession of culture, value system of people in each region will help to prevent environment-based crime. *"... the value system of people in the community is a model of life. That people live altogether in the community expresses their unique identity, the succession of culture of the value system of most people will help preventing the environment-based crime. These things are good benefits from the wisdom of the ancestors making the community members to be generous, honest, and sincere to one another ... "* (Community President, Sri Banphot Police Station, 2016).

Belief and traditions of people in the community is the driving force for the formation of people in the community to prevent environment-based crime. The local culture of local people will be able to create network participation from various cultures and traditions. *"...In the beliefs and traditions, there is the driving force for the integration of people in the community to prevent environment-based crimes. It is the collaborative effort to inherit the old and good culture of people in the community with the exhibition of agricultural crops, OTOP products, Community Enterprise Group of Villagers..."* (Community President, Phothong Police Station, 2016).

Technology: The data loss prevention in using technology to collect data in environment-based crime prevention can be done by bringing communication through the devices, computer equipment, radio, telephone, internet, Applications of Line, Facebook for more effective work in environment-based crime prevention. *"... using technology to collect the information used in the environment-based crime prevention needs to bring knowledge, technology to help in data collection and communication quickly for exchanging knowledge among one another..."* (Deputy Inspector of Suppression of Chum Phae Police Station, 2016).

Communication is considered very useful in work. It can help reducing the working time and is convenient to contact. The communication channel is for transferring from one person to another through the communication between individuals, groups or organizations. *"... Communication of various technological information can help to work very well. We can send photos, videos, various information, various messages that will help creating the better understanding of communication and help making more accurate work decisions as the communication can create the understanding among the individuals, agencies, and networks to join altogether ... "* (Superintendent of Sri Banphot Police Station, 2016).

Policy: Policy is a work plan in order to achieve the objective of environment-based crime prevention with the activities that are in collaboration with police, community, and local community leaders using the environment-based crime prevention policy. *"... In achieving the objective, the work goals are set together with the direction and goals of operation as well as planning the work that is performed to be a guideline for working according to the goals. The work plan is required to explore people's needs. In the areas, there are projects for crime prevention, such as the Police Patrol Project, the Community Relations Police Project, the neighbor warning project..."* (Deputy Superintendent of Sung Men Police Station, 2016).

Creating a resource allocation policy is critical to the administration system in order to meet the needs of people in the community. There is natural environment that includes various utilities

such as road, electricity, CCTV, technology and equipment, various facilities, etc. *"... creating the policy to use natural resources in crime prevention can save the budgets in creating the machine to prevent the criminals from stealing in the houses. This method is workable and does not require a lot of expenses such as bringing bamboos to build the fence surrounding the houses..."* (Superintendent of Chum Phae Police Station, 2016).

Satisfaction on working: The feeling of people in working, in the satisfaction of work, and in willing to perform the tasks in accordance with the objectives of the organization can benefit the object and mind and can meet basic needs with the rewards as the motivation for good work. It can be the good example to general public in working that will make the job well accomplished. *"...That we are respected by everybody in working must come from accepting and trusting in work. If everyone works hard, it will be successful. Here there is a compliment from the supervisors and colleagues who work as assigned until successful completion..."* (Superintendent, leader for the operation in the area of Phothong Police Station, Ang Thong Province, Central Region, 2016).

The work characteristics that cause satisfaction in the successful work can cause the collaboration of various agencies and people. It can happen from the cooperation of people in the community and happiness in work until the success of work is accepted. *"...the work characteristics that cause satisfaction in work may be from the leaders creating the satisfaction on working with the good relationship and support with the subordinates to participate in various creative decisions in the community ..."* (Deputy Superintendent of Sung Men Police Station, 2016).

Discussion and Conclusion

Internal factors affecting environment-based crime prevention

Fear of crime: The study results on the issue of fear of crime reveal that for the behaviors of fear of crime by avoiding crime, that the community members collaborate to look after and monitor the strangers both tourists and aliens along the border to enter the area can reduce the fear of crime. The police need to arrest the perpetrators to be punished. Based on the information about various crimes in the area, knowing the reducing crime statistics makes people trust and do not fear crime again. It corresponds to the study of Jermisittiparsert, Trimek, & Vivatthanaporn (2015) on National Crime Survey of 2016. The results show that the fear levels are related to gender, religion, marital status, residential area, occupation, income, physical and mental strength, social networks in the neighborhood, irregularities in the neighborhood, awareness of risks in facing the crime of residents in the area. This is also in accordance with the research of Jermisittiparsert & Ruangsilp (2017). It is found that the specific area of responsibility of the Southern Border Provinces Police Operations Center focuses on two objectives; (1) to study the levels of fear of crime among people in the area, and (2) to study factors related to such fear levels. The data is collected from a sample of 400 people in the southern border provinces during January 2017 to find that the levels of fear of crime in the overall population is at the moderate level (averagely 4.51 out of 10). Above all, fear for future crimes (in 2017) appeared more than the previous year (2016), about 4.74 percent. This is consistent with the idea of Esmail Salehi (2012: 133). The study finds that the fear of crime is a key indicator of environment-based crime prevention. The lack of discipline, enough light, availability of entertainment places cause the fear of crime and insecure feeling in life. Therefore, the crime prevention and control is an important goal in working to organize areas and activities to solve social problems. From perceived behavioral situations of people in the areas that are controlled by various social

institutions that have psychological role, the operation of police officers is required to arrest the perpetrators for punishment in order to allow people to see examples of being punished and it will be able to control the behaviors of criminals.

Leadership: The study results on the issue of leadership reveal that leadership is very important in an organization that has the science and art of being able to motivate or influence the subordinates to participate and help in achieving the set objectives and goals. In terms of vision and ideology of work, it is found that leadership with visions and ideology of work is the goal to lead the organization to achieve its objectives. In working, local leaders in the community have visions of work by setting guidelines to lead the organization to achieve its goals by reducing conflict and reducing crime for people in the community. The leadership of visions and ideology, of work is consistent with the idea of Yukl (1998: 341-346) giving the concept of leadership with a vision to create clarity of goals. It can explain how to achieve the goal by performing with confidence and optimism in the workplace, showing confidence in working, creating opportunities for success in the workplace, and willing to go towards that goal. For the results of study on the issue of supporting individual followers, it is found that leadership with individual support is an individual support to work. This is consistent with the idea of Robert Kreitner (2001: 17) using social influence that leaders have searched for subordinates to participate voluntarily. The attempt is used to achieve the objectives of the organization that has been placed. It also conforms to the idea of Leithwood and others (1999: 9) that the leaders who can give the subordinates a commitment to create love and commitment in the organization can create good work potential of personnel.

Participation: The study results on the issue of participation reveal that the participation is the process to promote support and create opportunities for people in the community in the form of personal, group, association, foundation and volunteer organization in various forms involving in the operation to achieve the objectives and defined development policies.

The study results on the issue of organizational relationships reveal that the participation in organizational relationships is an opportunity for everyone in the organization to play a role in working for the subordinates to work fully by transferring knowledge to create cooperation in working altogether. If the relationship of persons in the organization is good, it will stimulate and induce the interaction in that organization successfully. It is consistent with the idea of Gibson, James L. (1991: 44) giving the meaning of public participation as the continuous process that brings the concerns, needs and values of the public in the public and private decision-making processes. It is the two-way communication and is the interaction with the goal to make better decisions. This is in accordance with the idea of Yuwat Wutthimethi (1983: 24) giving the meaning of opportunity for people to take part in various matters. It also affects people. The impact comes from agreeing with the need for changing. The comments must be so high enough to manage the project for use. This agrees with Dehporm, S. (2018) stating about the environment-based crime prevention model. The research results reveal that the participation in community activities alarms the public surveillance. It is found that, in all aspects, crime prevention is provided with the appropriate environment as a guideline for crime prevention and crime reduction in the areas.

The study results on the issue of support for work reveal that the work can be supported by having leadership that helps driving the support in working starting from planning of people to participate in analyzing various problems in society and conducting activities in environment-based crime prevention.

Network: The study results on the issue of network reveal that the interpersonal social relationships or relationships among the individuals can lead to the interaction of information exchange in the community depending on the interaction and connection of the persons who are voluntary in cooperation, dependence, learning exchange of information, knowledge, and experiences with one another as well as the joint activities with social relationships.

The study results on the issue of network member participation reveal that the network members participate in working and analyzing the problems altogether. This is the attempt to improve the strength with the cooperation of member networks by recruiting local leaders, security guards, volunteers, police officers, and people to collaborate in helping preventing the crime environmentally. Everyone can participate in the decision-making of working with the cooperation of the network members. There is a connection of a group of people or organizations, including local government agencies, village chiefs, village headmen, community presidents, police stations, volunteers, schools, temples for the environment-based crime prevention. The participation of network members is consistent with the concept of Prawet Wasi (1997: 56) stating that the network describes the movement of individuals and organizations into network integration in order to create a process for managing changes in things. Social networks create learning necessary for survival. It is the social structure that changes the behaviors of society. The social network is created for learning continually to be able to adapt to changes.

The study results on the issue of the exchange of interactions reveal that the network is the exchange of interactions resulting in good cooperation among the members who have exchanged new experiences and learning in the network's operations such as training, job observation to bring back knowledge to be exchanged and make the network members do the activities altogether for exchanging knowledge in working. This is consistent with the research of Chatchai Na Chiang Mai (1990: 209-214) explaining the social network as a whole social relationship of people in a society in which the group of people is connected by the characteristics of this relationship to be used to explain personal behaviors. The social network consists of social relationships and any organization group to create relationships with social networks such as kinship relations, friend's relationship, and relationships in the organization.

External factors affecting environment-based crime prevention

Culture: The study results on the issue of culture reveal that the culture is important and valuable to human existence representing the growth, social order, including knowledge, belief, art, morality, law, language, tradition, etc.

From conducting the interview in the area, it can be explained about the interview issue of culture. The study results on the issue of social values reveal that ideological thinking is a succession of cultural systems. Value system of people in each region will help in the environment-based crime prevention. It is a good thing created from the wisdom and the succession of cultural systems and values of people in the community in environment-based crime prevention. This is in accordance with Esmail Salehi's concept (2012: 24) finding that cultural values in urban areas are the most important indicators of areas that affect crime prevention. Although it is a complex problem in each society, various environmental roles should not be ignored. The results of this study can explain the possible relationships in the areas.

The study results on the issue of culture reveal that the beliefs and traditions of people in the community can gather people in the community for environment-based crime prevention. The local culture of the local people will be able to create the participation and cooperation of the

network from various cultures, traditions, local traditions of each region related to Buddhism in cooperation with community development in environment-based crime prevention.

Technology: The study results on the issue of technology reveal that the technology is used in processing and data communications, exchange of information among one another, collection, processing and dissemination of information. The information technology is more useful and functional. It is the tool used for managing information such as computers and peripherals operation related to the software from the interview areas.

The researcher conducted the interview on the sample group with the obtained technology information in each issue. The study results on the issue of data collection reveal that the data collection can prevent the loss of information in the use of technology to collect data by using communication through tools, computer equipment, radio, telephone, internet, Application Line, Facebook for more effective work in preventing the environment-based crime. This agrees with the idea of Kanchit Malaiwong (1997: 17) giving the idea on information technology. It is the technology related to storage, processing and dissemination of information including computer technology and telecommunication technology. This is also correspondent with the concept of Potjanad Thongkamcharoen (1996: 14) giving the idea that the information technology is knowledge in processing methods for collecting, using, and presenting via electronic methods.

Policy: The study results on the issue of policy reveal the operational guidelines that will propose policies beneficial to lead to goals, aspiration, work objectives. The policy is like a compass to define the direction in working. It can help the executives and workers in the agencies to understand their missions.

The study results on the issue of achieving the target objectives reveal that in the achievement of the objectives of the work planning goals in order to achieve the objective of environment-based crime prevention, there are some activities that are in collaboration with community police and local community leaders. The environment-based crime prevention policy is in the following projects; Community Relations Police Project, Warning neighbors project, Seedling Club Project, Red box project, project of checkpoints available at the community entrance, monitoring project in risky areas, surveillance project in public areas, cutting trees in desolate areas, and shifting the guards to help one another in maintaining the security in the areas, etc. This is in line with the idea of Friedrich (1963: 146) explaining the achievement of the goals according to the proposal for the implementation of individual, group of people, or government within an environment that will have some obstacles and opportunities. Those obstacles and opportunities will push the policy to be utilized in order to lead to one of those goals.

Operational satisfaction: The study results on the issue of operational satisfaction reveal that the feeling of the persons in working, the operational satisfaction, the satisfaction in works, and the willingness to perform the tasks according to the objectives of the organization will yield the benefits in the object and the mind that can meet the basic needs.

Regarding the acceptance and respect, it is found that being respected by the supervisors and the colleagues, those who seek advice from other agencies with the praise and congratulations to those who perform good work can encourage with the reward to be the motivation in working. This is consistent with the idea of Locke (1976: 130) which is the feeling of comfort or happiness as a result of the person's appreciation and praise from work or various work experiences. This agrees with the idea of Herzberg, Frederick. (1959: 71). Respect is the result of success. The acceptance is in various forms such as compliments with words or in writing. Providing frequent reinforcement is necessary to cause continuous motivation.

The study results on the issue of the works that have been done reveal that the works that have been done result in the satisfaction of the successful work that resulted in the collaboration of various agencies. This is correspondent to the concept of Strauss, G & Sayles, L. R. (1960: 32) considering the job satisfaction as a feeling of satisfaction in the work done and willing to perform that task in accordance with the objectives of the organization. The person will be satisfied with the work that is done when the work provides benefits to the object and mind as well as being able to meet the basic needs of people.

Recommendations

According to the research results, the factors affecting the environment-based crime prevention planning in Thailand in almost all issues result in the success of works following the objectives of the agencies. Therefore, in order to provide effective environment-based crime prevention of Thailand, the researcher has some recommendations for the development of environment-based crime prevention as follows.

1) Fear of crime: The behaviors of crime perception of people in the community by collaborating to help alerting people can be done by allowing people in the community to collaborate and monitor the community area. The policies should be issued for local government and police departments on the cooperation of all sectors in recognizing various crime-related information in the community to reduce the fear of crime. In addition, the work of police officers and community leaders with effective working in environment-based crime prevention being able to arrest the perpetrator for punishment can reduce the fear of crime of people in the area and create the trust of people as well.

2) Leadership: Leaders should have the visions in working to solve various problems that occur as well as dealing with changing situations over time by formulating guidelines to lead the organization to achieve its goals. Besides, there should be a government policy for the leaders to promote the development of volunteer work, security by using creativity in work and can make decisions on their own work in order to encourage acceptance of work according to the organization's goals that have been set.

3) Participation: The government policy should be created to allow everyone in the organization to play a full role with knowledge support as well as the understanding of communication effectively. This will promote work support and develop to have knowledge and competence to work in order to achieve the goal of operating environment-based crime prevention by using limited resources and the maximum benefits of environment-based crime prevention.

4) Network: Determination of local government policies and policies of police departments in various network operations should be seen in working in other areas for the environment-based crime prevention. This is for bringing back knowledge and exchange for the members of the network to have more knowledge. There should also have the links among groups of people or organizations in continuous long-term work both for the network of government agencies such as village chiefs, village headmen, community presidents, police officers, schools, temples and volunteers for the environment-based crime prevention.

5) Culture: There should be a government policy for long-term planning in preserving concrete cultural identity with the goal of social values in order to raise awareness of the preservation of cultural heritage and natural resources with local values for people. The latter generations can inherit the belief patterns, values, moral goodness causing crime to be reduced by the environment in the areas.

6) Technology: There should be a policy to prevent data loss in collecting technology information in the environment-based crime prevention. There should be a project to use technology in the right way and the project to educate the civil defense volunteers in the use of technology for the adjustment of attitudes, values and perceptions of the communication of the news organization in the environment-based crime prevention.

7) Policy: The systematic policy should be created for concrete management and it must actually work with the work plan that is clear in command and assignment. This can allow everyone to participate in commenting on various policies. Moreover, there should be a reduction in the rules of work that causes tension in the work for greater work efficiency.

8) Operational satisfaction: The policies should be planned to create the operational satisfaction of the community and volunteers for the benefits in budget allocation and sufficient management to procure materials for work and budgets for paying special compensation to pay overtime according to the regulations. It is the compensation that the organization provides to support better work and to secure workers in their operations with clearly stated rights and employment contracts for the staffs to know to enhance the morale on them.

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