

Level of Awareness on The Program of Community Empowerment Through Science and Technology (CEST)

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Abstract

The paper investigates the level of awareness on the program of community empowerment through science and technology. Specifically, it seeks answer to the level of awareness on the program of Community Empowerment through Science and Technology among the respondents in the area of economic development, health and nutrition, human resource development, environment protection and conservation, and economic development.

The study employs the descriptive quantitative research design. This is to quantify and measure the level of awareness and understanding of the CEST program among the respondents in terms of economic development, health and nutrition, human resource development, environment protection and conservation, and economic development. On the other hand, the purposive sampling is employed in the study. It is selective, judgmental in selecting the sample size of the study depending on the set criteria of the study. It is convenient for sampling technique utilization. It is a non-probability sampling technique which is subjective in the study under investigation. The study comprised One Hundred Twenty-Five (125) respondents only.

Results show that economic development reveals consistency set target suggestion conservatively in high effectiveness and initiative for economic development through Science and Technology, show that health and nutrition processes the health priorities and techniques for challenges and elaboration of health and nutrition, Human Resource Development indicate effective planning and execution process of the training level and awareness of understanding of HRD, show environmental protection and conservation is a part of the community empowerment through Scientific and Technology program on DOST to provide and promote a number of technologies in an eco-friendly environment, and show economic development promotes number of technologies and inventions for Disaster Risk Reduction and Climate Change Adaptation for indication of success level and awareness.

Keywords: *Level of awareness, community empowerment through science and technology economic development, health and nutrition, human resource development, environment protection and conservation, and economic development.*

Introduction

Community Empowerment through Science and Technology program (CEST) identifies the real issues to address the problem of livelihood, economic enterprise development, health and nutrition, human resources development, environmental protection, conservation, disaster risk, reduction management of climate change, and adaptation [1]. This can be done through monitoring progress of the community empowerment through Science Technology (CEST) as based on the key performance indicators assessment as provided by the Department of Science and Technology. It provides an opportunity to explore the process of the implementation program that leads to better success of the progress and economy of the region and the country as well [2]. It stresses on the challenges, and disparities in the community or between the urban and rural areas. It accesses the lack of energy and modern services which affect the health services, educational system, exacerbating poverty, and productivity among other things. The transformation is based on the Science and Technology in the community that empowers the system. Empowerment in the community is the key strategy process Mallillin, & Mallillin, (2019) [3] to overcome such issues and perceived gaps. It describes the process and transformation towards sustainable development. It

helps in eliminating the activation parallel to the effect of the community empowerment in the society [4].

On the other hand, the perceived gaps, issues, challenges, and barriers for community empowerment through Science and Technology is the lack of understanding, and interest on the local governance, lack of trust and negative perception in the public institutions, inaccessible recruitment practices, involvement on lack of awareness, lack of time to participate, perceived lack of skills and lack of confidence, stereotyping and participation of individuals, skepticism on the various participation and differences, poor execution and experience, participation of financial cost, repercussion and fear, cultural resistance and structural disincentives, and socio-economic status to mention few of the challenges. It is a policy concept Mallillin, (2023, pp. 12-28) [5] that leads to efficiency and quality of services. It explores community empowerment and contribution to the process and policy. It undergoes transition towards passive approaches in overcoming the perceived gaps on community empowerment [6]. Hence, Community Empowerment through Science and Technology engages on transformation that meet the sustainable change and development goals. Community plays a key role to uptake the transformation engagement. It marginalizes the benefits of

limited participation in the community and democracy. It addresses the required issues and understanding to facilitate community empowerment through Science and Technology. It conceptualizes the outcome, definition and empowerment of the issues, gaps, barriers, and challenges. It is the goal of the community and transformation action. It enables to empower the multifaceted concept identified in the community through autonomy, agency and participation. It transforms the change for sustainable development goals in the community. It entails proper interrogation in the community to address the proper gaps and issues for proper intervention through the use of Science and Technology [7].

The discussion about community empowerment seems overwhelming and positive. It is a necessary phenomenon and nonetheless very challenging especially when there are barriers, gaps, and issues. The concept of community empowerment is easy to identify but hard to establish. It is a buzzword and can sometimes lose the function and meaning of empowerment. It is just jargon and alienating. It is difficult to explore the outcome and measures since empowerment is strong evidence, and initiatives. Community empowerment means to translate the ideas of various cultures and languages in the society, especially on values and norms. It provides better practice and participation in community transformation and change. This practice must emphasize community change to overcome issues from good, better, and best [8]. It is very challenging to change the people to change for the better considering various attitudes and personality of individuals. Community Empowerment through Science Technology is one of the programs of the Department of Science and Technology to develop an economy through science and technology. It provides people in marginalized sectors, conflict affected areas, indigenous groups, and remote regions to support and guide them through innovation, practices, systems and desires. It provides interventions that influence and encompass community empowerment. It answers the challenges of the economic society through creation of new advance technology of value development that aims to reduce issues and gaps in the human resources, economic society, adequate infrastructures on livelihood, economic enterprise development, health and nutrition, environmental protection and conservation, disaster risk, reduction and management of climate change and adaptation [9].

Statement of the Problem

1. What is the level of awareness on the program of Community Empowerment through Science and Technology among the respondents in the area of
 - 1.1 economic development,
 - 1.2 health and nutrition,
 - 1.3 human resource development,
 - 1.4 environment protection and conservation,
 - 1.5 and economic development?
2. Is there a significant relationship on the level of awareness on the program of Community Empowerment through Science and Technology as observed among the respondents?

Hypothesis

There is a significant relationship on the level of awareness on the program of Community Empowerment through Science and Technology as observed among the respondents.

Literature Review

The level of awareness and understanding of the CEST program on economic development develops the ecological environment foundation and premises in the important manifestation. It collects relevant data on economic development. It calculates the economic development index function and comprehensive process. It uses the digitization innovation Mallillin, et al. (2021) [10] on economic development scheme and evaluation. It evaluates the level of index and comprehensive rural growth and unbalanced development in the region. It shows fluctuation on the comprehensive index in the environment and agricultural ecology which is observed in the region. It develops the ecological agricultural environment and rural economy influences. It coordinates with the level of the rural economy policy and proposed economic development in the region. It modernizes science and technology for innovation and increased economic development [11].

On the other hand, economic development awareness and understanding evaluates the digital innovation of multiple knowledge on analysis and systematic assessment on instrument and feasibility key indicators. It identifies the opportunity for the integration Mallillin, et al. (2020) [12] and decision-making tool. It makes the climate and strategy for economic development on mutual acquisition and generation for the potential success and support of the achievement process and growth of the community in the region. It presents a concept on the sustainable intervention of the economic development approach. It provides solutions and a sustainable approach on business industry and framework. It designs the organizational barriers, regulatory, technical efficiency of economic development. It designs the level of operation in the business process for economic development in the region. It analyzes the systematic solution and requirements for a holistic point of view of economic development program awareness and understanding [13].

Moreover, health and nutritional awareness and understanding of community empowerment through science and technology provide people with general nutrition and health information. The health and nutritional knowledge improve the healthy lifestyle of the people in the region or community. The health and nutritional awareness can be a burden to those people who don't care about the effect of food intake that are unhealthy which resulted to issues on their health. The significant prevention of health and nutrition can be addressed and can be planned from the proper pattern as needed. The determining factor would be the food choices and lifestyle and personal preference to economic and cultural status. The basis of a healthy habit is proper knowledge on health and nutrition. It promotes a potential diversified pattern of healthy lifestyle [14].

In addition, health and nutrition awareness and understanding determines the knowledge and behavior of lifestyle among individual people and behavior. The assessment tool utilizes the disparate challenges in the nutrition knowledge and health level among individual households. It measures the nutrition and health awareness on consumers' ability to apply and understand the food processing and concept based on the nutritional knowledge and functional tasks associated in the community. It distinguishes the common foods and nutrition knowledge based on intervention and characteristics. It highlights the intervention policy and accessibility on health and nutrition awareness and understanding of individuals. It evaluates the policy and impact

of the context of nutrition and health knowledge. It includes the concept of knowledge sources and guidelines of various nutrients and health [15].

Notably, human resource development awareness and understanding in the (CEST). It plays an important role in the innovation of the various organizations in the region and strategy. It grows on the human aspect and an interest in open innovation in human resource development. It challenges the innovation for human resource Mallillin, & Caranguian, (2023, pp. 131-141) [16] development management that motivates the sources and shared knowledge, it argues and addresses the issues of responsible innovation and collaboration for the needs of human resource development. It creates and practices the human resource development condition to leadership innovation and mindset among employees. Innovation in human resource development focuses on the micro-foundation and level of organization. It provides proper understanding on the interdependencies of the collaboration role and awareness of the human resource management development process [17].

Human resource development builds a theory on an exchange model of collaboration of HRD Mallillin, (2017, pp. 58-74) [18] awareness and understanding. It utilizes the leadership of the innovation and mindset of human resource development to improve performance. Human resource development innovation involves knowledge in the organization boundaries. It embraces the sources and leverages complement and capabilities of innovation for human resource management development to build competitive advantage and sustainability. It shares an idea on human resource development knowledge. It addresses the sources and knowledge on the concept of employee that focuses on collaborative human resource development. It translates knowledge for the flow of the human resource development understanding and awareness in the community empowerment through science and technology. It explores the human resource development structure model in the involvement training and development plan [19].

Furthermore, environmental protection and conservation awareness and understanding of community empowerment through science and technology is necessary for friendly environment behavior for sustainable development. It attempts to analyze the research gap and mediate environmental role and sensitivity attitude on behavior, intention and knowledge. It shows that environmental knowledge and protection is modeled and protected according to the laws in environmental protection. It provides an instrument for environmental protection and conservation that describes the intention and behavior existing of environmental knowledge and understanding. It is necessary for the training schedule to be given to environmental protection and conservation. It provides different implications in society. It provides an awareness and understanding model for environmental protection and conservation based on the needs of the people in the community [20].

Environment protection and conservation influence awareness and understanding of the mechanism of intention and behavior to promote effective generation of positive intention for environment protection and conservation behavior sustainable development. It provides cognitive behavior on awareness and environment knowledge protection and conservation. It influences the behavior of the mechanism and intention toward environment protection and conservation. It explores the understanding of environmental protection and conservation

through knowledge and awareness, behavior and intention that influences the mediating role of every individual in environmental protection and conservation. It provides the essential awareness and understanding of environmental protection and conservation. It provides an empirical development foundation for conservation and environmental protection. It discusses the implication of management theory as directed and provided. It ensures the integrity of the preserved environmental protection and conservation [21].

In contrast, the Disaster Risk Reduction and Management to include Climate Change Adaptation awareness and understanding on community empowerment through science and technology increases the impact on extreme disaster. It underscores the increasing extreme of bringing the importance of reduction and efforts for adapting the risk disaster in the climate change and impact. It integrates the linkages of climate change and adaptation to include disaster risk and reduction. It also integrates the needs of the documented policy in disaster risk reduction and climate change adaptation. It implements the measure of DRR and CCA isolation. It contributes to seek the coherence on the ongoing efforts for disaster risk disaster and climate change adaptation. It identifies the factors that integrate the DRR and CCA [22].

The Disaster Risk Reduction and Management to include Climate Change Adaptation provide an impact on the severe damage caused by changing climate that affect the sustainable development achievement and difficult goals. It erodes the development gains in the challenges and impact of climate change and disaster on sustainable development risk. It reviews the major challenges and impact of disaster risk reduction and climate change adaptation in a sustainable development. It summarizes the linkages of DRR and CCA and sustainable development. It conceptualizes the DRR and CCA development action. It implements widely the climate change and effect of DRR and CCA. It proposes a framework for DRR and CCA resilient context and sustainable development. It transforms the crucial mechanism of governance at various levels and integration of DRR and CCA [23].

Research Design

The study employs the descriptive quantitative research design. This is to quantify and measure the level of awareness and understanding of the CEST program among the respondents in terms of economic development, health and nutrition, human resource development, environment protection and conservation, and economic development. On the other hand, Descriptive Quantitative Research is a non-experimental kind of research that measures the variables using the numerical values for the manipulation of study done by the researcher. It is quantitative in nature that collects and attempts to analyze the information for statistical information. It is a powerful kind of research tool to collect the data that permits and describes statistical analysis. It has substantial variation and transparency in the quantitative field of studies. It provides analysis on the features of the level knowledge on the (CEST) program and impact. It provides better analysis posited in the statement of the problem posited in chapter 1. It provides a direct link for concrete analysis of the study to be achieved [24].

Population, Samples and Sampling Technique

The population samples are the different heads of the Department of Science and Technology in the various regions in the Philippines where the questionnaire is being sent through

google forms whoever answers the questionnaire serves the respondents of the study [25]. The study comprised One Hundred Twenty-Five (125) respondents only.

On the other hand, the purposive sampling is employed in the study. It is selective, judgmental in selecting the sample size of the study depending on the set criteria of the study. It is convenient for sampling technique utilization. It is a non-probability sampling technique which is subjective in the study under investigation. It selects the sample size based on the predefined criteria set by the researchers' conveniences, knowledge, and expertise. It is a systematic knowledge of

research that involves data collection and analysis. It is a creative search body of knowledge to provide solutions on the study analysis. It is an inquiry sampling technique that controls, describes, predicts, and explains the observed phenomena [26].

Results and Discussion

1. On the level of awareness and understanding of the CEST program among the respondents in the area of economic development, health and nutrition, human resource development, environmental protection and conservation, and economic Development.

Table 1: Level of Awareness on the CEST Program in the Area of Economic Development.

Indicators	WM	I	R
1. It highlights the economic development where the number of interventions for Science and Technology is provided.	3.38	MA	4.5
2. It consistently targets the exceeded year and intervention for the indicated effect on economic development.	3.38	MA	4.5
3. There is consistent set target suggestion conservatively in high effectiveness and initiative for economic development through Science and Technology.	4.22	SA	1
4. It innovates science and technology to upgrade industrial structure and economic development on high quality strategy patterns.	4.00	A	3
5. It explores mechanisms and significant high quality of social modernization to adopt the effect of science and technology economic development.	4.18	A	2
Average Weighted Mean	3.83	A	
Standard Deviation	0.420		

Table 1 presents the weighted mean and the corresponding interpretation on the level of awareness on the CEST program in the area of economic development among the respondents.

It shows that “There is consistency set target suggestion conservatively in high effectiveness and initiative for economic development through Science and Technology”, with a weighted mean of 4.22 or Strongly Agree which means CEST program on economic development develops the ecological environment foundation and premises in the important manifestation [11]. On the other hand, it shows that “It highlights the economic development where the number of interventions for Science and Technology is provided”, and “It

consistently targets the exceeded year and intervention for the indicated effect on economic development”, with a weighted mean of 3.38 or Moderately Agree which means economic development awareness and understanding evaluates the digital innovation of multiple knowledge on analysis and systematic assessment on instrument and feasibility key indicators. The overall average weighted mean is 3.83 (SD=0.420) or Agree on the level of awareness on the CEST program in the area of economic development among the respondents. Findings show that It provides solutions and a sustainable approach on business industry and framework. It designs the organizational barriers, regulatory, technical efficiency of economic development [13].

Table 2: Level of Awareness on the CEST Program in the Area of Health and Nutrition.

Indicators	WM	I	R
1. Health and nutrition are part of the Community Empowerment through Science and Technology where the accomplishment is fluctuated due to the number of malnourished children being served.	3.92	A	3
2. It indicates effectiveness and effort in addressing malnutrition as part of the program.	3.37	MA	5
3. Training is provided for various households to achieve the target program for malnutrition and health nutrition awareness.	3.87	A	4
4. It processes the health priorities and techniques for challenges and elaboration of health and nutrition.	4.20	SA	1
5. It promotes awareness of the increased health and nutrition demand and function.	4.00	A	2
Average Weighted Mean	3.87	A	
Standard Deviation	0.307		

Table 2 presents the weighted mean and the corresponding interpretation on the level of awareness on the CEST program in the area of health and nutrition among the respondents.

It shows that “It processes the health priorities and techniques for challenges and elaboration of health and nutrition”, with a weighted mean of 4.20 or Strongly Agree which means health and nutritional awareness and understanding of community empowerment through science and technology provide people with general nutrition and health information [14]. On the other hand, it shows that “It indicates effectiveness and effort in addressing malnutrition as part of the program”, with a weighted mean of 3.37 or Moderately Agree which means health and nutritional knowledge improves the healthy lifestyle of the people in the community. The overall average weighted mean is 3.87 (SD=0.307) or Agree on the level of awareness on the CEST program in the area of health and nutrition among the respondents.

Findings show that health and nutrition awareness and understanding determines the knowledge and behavior of lifestyle among individual people and behavior. The assessment tool utilizes the disparate challenges in the nutrition knowledge and health level among individual households. It measures the nutrition and health awareness on consumers' ability to apply and understand the food processing and concept based on the nutritional knowledge and functional tasks associated in the community. It distinguishes the common foods and nutrition knowledge based on intervention and characteristics. It highlights the intervention policy and accessibility on health and nutrition awareness and understanding of individuals. It evaluates the policy and impact of the context of nutrition and health knowledge. It includes the concept of knowledge sources and guidelines of various nutrients and health [15].

Table 3: Level of Awareness on the CEST Program in the Area of Human Resource Development.

Indicators	WM	I	R
1. The number of training being conducted by human resource development through Science and Technology is consistently met on the target goals and even exceeded each year.	3.91	A	2
2. It has an impact in technology development and anticipates changes in the business function.	3.39	MA	4.5
3. It leads to the transformation of the contemporary concept of human resources development practice.	3.39	MA	4.5
4. It repositions the HRD function change and anticipation to the environment global goals on level of awareness and understanding.	3.87	A	3
5. It indicates the effective planning and execution process of the training level and awareness of understanding of HRD.	4.23	SA	1
Average Weighted Mean	3.75	A	
Standard Deviation	0.363		

Table 3 presents the weighted mean and the corresponding interpretation on the level of awareness on the CEST program in the area of Human Resource Development among the respondents.

It shows that “It indicates effective planning and execution process of the training level and awareness of understanding of HRD”, with a weighted mean of 4.23 or Strongly Agree which plays an important role in the innovation of the various organizations strategy [17]. On the other hand, it shows that “It has an impact in technology development and anticipates changes in the business function”, and “It leads to the transformation of the contemporary concept of human resources development practice”, with a weighted mean of 3.39 or Moderately Agree which means the human aspect and an interest in open innovation in human resource development. It challenges the innovation for human resource development management that motivates the sources and shared knowledge,

it argues and addresses the issues of responsible innovation and collaboration for the needs of human resource development. It creates and practices the human resource development condition to leadership innovation and mindset among employees. The overall average weighted mean is 3.75 (SD=0.363) or Agree on the level of awareness on the CEST program in the area of Human Resource Development among the respondents.

Findings show that HRD builds a theory on an exchange model of collaboration awareness and understanding. It utilizes the leadership Mallillin, (2022) [27] of the innovation and mindset of human resource development to improve performance. Human resource development innovation involves knowledge in the organization boundaries. It embraces the sources and leverages complement and capabilities of innovation for human resource management development to build competitive advantage and sustainability. It shares an idea on human resource development knowledge [19].

Table 4: Level of Awareness on the CEST Program in the Area of Environmental Protection and Conservation.

Indicators	WM	I	R
1. Environmental protection and conservation is a part of the community empowerment through Scientific and Technology program on DOST to provide and promote a number of technologies in an eco-friendly environment.	4.24	SA	1
2. Level of awareness and understanding of environment program and conservation is consistently targeted and met the promotion program and implementation to the fullest.	4.00	A	2
3. The number of individuals and households are provided with green technologies training on environmental protection and conservation.	3.36	MA	5
4. The suggestion program for environmental protection and conservation have been effective to interlink with responsible sustainable development goals.	3.69	A	4
5. It examines the belief and role of the environment and conservation commitment and responsible behavior.	3.87	A	3
Average Weighted Mean	3.83	A	
Standard Deviation	0.331		

Table 4 presents the weighted mean and the corresponding interpretation on the level of awareness of the CEST program in the area of environmental protection and conservation among the respondents. It shows that “Environmental protection and conservation is a part of the community empowerment through Scientific and Technology program on DOST to provide and promote a number of technologies in an eco-friendly environment”, with a weighted mean of 4.24 or Strongly Agree which means environmental protection and conservation awareness and understanding of community empowerment through science and technology is necessary for friendly environment behavior for sustainable development [20]. On the other hand, it shows that “The number of individuals and households are provided with green technologies training on environmental protection and conservation”, with a weighted mean of 3.36 or Moderately Agree which means environmental

knowledge and protection is modeled and protected according to the laws in environmental protection. The overall average weighted mean is 3.83 (SD=0.331) or Agree on the level of awareness on the CEST program in the area of environmental protection and conservation among the respondents.

Findings show that environment protection and conservation influence awareness and understanding of the mechanism of intention and behavior to promote effective generation of positive intention for environment protection and conservation behavior sustainable development. It provides cognitive behavior on awareness and environment knowledge protection and conservation. It influences the behavior of the mechanism and intention toward environment protection and conservation [21].

Table 5: Level of Awareness on the CEST Program in the Area of Economic Development.

Indicators	WM	I	R
1. The Disaster Risk Reduction and Climate Change Adaptation emphasizes the program of community empowerment to have safe protection of people in the society.	3.68	A	3
2. It promotes a number of technologies and inventions for Disaster Risk Reduction and Climate Change Adaptation for indication of success level and awareness.	4.21	SA	1
3. The suggestion has prepared for the improved disaster risk in the community through installing sensors and warning stations that are maintained.	3.37	MA	5
4. It increases the development activities in the risk disaster program and climate change.	3.49	A	4
5. It poses conceptual challenges for disaster risk reduction and climate change adaptation approaches and development needs.	3.87	A	2
Average Weighted Mean	3.72	A	
Standard Deviation	0.331		

Table 5 presents the weighted mean and the corresponding interpretation on the level of awareness on the CEST program in the area of economic development among the respondents.

It shows that “It promotes number of technologies and inventions for Disaster Risk Reduction and Climate Change Adaptation for indication of success level and awareness”, with a weighted mean of 4.21 or Strongly Agree which means the

Disaster Risk Reduction and Management to include Climate Change Adaptation awareness and understanding on community empowerment through science and technology increases the impact on extreme disaster [22]. On the other hand, it shows that “The suggestion has prepared for the improved disaster risk in the community through installing sensors and warning stations that are maintained”, with a weighted mean of 3.37 or Moderately Agree which means integrates the linkages of

climate change and adaptation to include disaster risk and reduction. It also integrates the needs of the documented policy in disaster risk reduction and climate change adaptation. The overall average weighted mean is 3.72 (SD=0.331) or Agree on the level of awareness on the CEST program in the area of economic development among the respondents.

Findings show that Disaster Risk Reduction and Management to include Climate Change Adaptation provide an impact on the severe damage caused by changing climate that affect the sustainable development achievement and difficult goals. It erodes the development gains in the challenges and impact of climate change and disaster on sustainable development risk. It

reviews the major challenges and impact of disaster risk reduction and climate change adaptation in a sustainable development. It summarizes the linkages of DRR and CCA and sustainable development. It conceptualizes the DRR and CCA development action. It implements widely the climate change and effect of DRR and CCA. It proposes a framework for DRR and CCA resilient context and sustainable development. It transforms the crucial mechanism of governance at various levels and integration of DRR and CCA [23].

2. On the significant relationship on the level of awareness on the program of Community Empowerment through Science and Technology as observed among the respondents.

Table 6: Test of significant relationship on the level of awareness on the program of Community Empowerment through Science and Technology as observed among the respondents.

Test of Variables	Computed z value	Comparison	Critical z value	Decision
1. Economic development	51.18052783	>	±1.96	rejected
2. Health and nutrition	60.48844345	>	±1.96	rejected
3. Human resource development	53.90246012	>	±1.96	rejected
4. Environment protection and conservation	57.65213684	>	±1.96	rejected
5. Economic development	55.99633134	>	±1.96	rejected
Two-tailed test, df of 125 at 0.05 level of significance				

Table 6 presents the test of significant relationship on the level of awareness on the program of Community Empowerment through Science and Technology as observed among the respondents.

It shows that when all the variables are tested against each other using the z test, it reveals that the z computed values are higher than the z critical value of ±1.96 which is significant and a rejection of the hypothesis. Two-tailed test, df of 125 at 0.05 level of significance. Therefore, it is safe to say that there is a significant relationship on the level of awareness on the program of Community Empowerment through Science and Technology as observed among the respondents.

Conclusions

It shows that the level of awareness on the CEST program in the area of economic development reveals consistency set target suggestion conservatively in high effectiveness and initiative for economic development through Science and Technology where it shows that it highlights the economic development where the number of interventions for Science and Technology is provided and consistently targets the exceeded year and intervention for the indicated effect on economic development, shows that health and nutrition processes the health priorities and techniques for challenges and elaboration of health and nutrition where it indicates effectiveness and effort in addressing malnutrition as part of the program, Human Resource Development shows to indicate effective planning and execution process of the training level and awareness of understanding of HRD where it has an impact in technology development and anticipates changes in the business function and lead to the transformation of the contemporary concept of human resources development practice, environmental protection and conservation shows that it is a part of the community empowerment through Scientific and Technology program on DOST to provide and promote a number of technologies in an eco-friendly environment where

the number of individuals and households are provided with green technologies training on environmental protection and conservation, and shows that economic development promotes number of technologies and inventions for Disaster Risk Reduction and Climate Change Adaptation for indication of success level and awareness where the suggestion has prepared for the improved disaster risk in the community through installing sensors and warning stations that are maintained.

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