



Cultivating Culture Research Excellence for Higher Education Institutions (HEIs) Through Sustainable Development Goals

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Abstract

The study aims to navigate the cultivating culture of research excellence for Higher Education Institutions through sustainable development goals and process systems.

It employs mixed methods research design and purposive sampling techniques for the sample population size of the study. The study comprised sixty (60) respondents only.

Results show that the extent of cultivating culture research excellence for a Higher Education Institutions (HEIs) through sustainable development goals among the respondents helps the community on their needs, information, and understanding process for self-organization, show that research innovation in sustainable development goals organization builds credibility, trust, support, and inspire change and action, show that community engagement in sustainable development goals involve coalition and partnership in the community engagement to influence the resources system, practices, programs, and catalyst for change policies and mobilization, show that research collaboration in sustainable development goals are necessary paradigm and strategy to explore the methods and analysis of research collaboration in support to the output of sustainable development goals and definition, show that research application in sustainable development goals develop a significant transformation approach in the community, and show that research interdisciplinary in sustainable development goals ensure approach and partnership effectiveness to compromise and able sustainable development goals.

Keywords: Culture Research Excellence, Higher Education Institutions, and Sustainable Development Goals.

INTRODUCTION

Cultivating culture research for Higher Education Institutions (HEIs) through sustainable development goals measures transparency programs in the democratic society. It also measures the Higher Education Institutions in harnessing the academic expertise and policy making based on the research capability of the educational setting (Caday, et al. 2023). HEIs are at the forefront of sustainable development goals and have a unique position to serve and promote benchmarking in the economy and other sectors. It contributes to the sustainable development goals at large in the society. It directs the impact to the different communities ranging from the integration of the local infrastructure, sustainability, culture, and policies based on the readiness and implementation

transition process (Mallillin, et al. 2020). It fulfills the decent competitive mission in the labor market industry. It offers a work balanced life, job security, and employment. It provides awareness for sustainable development goals (Suklun, & Bengü, 2024, pp. 39-72). It conditions career research on particular concerns in a precarious work condition to address the offers, issues, and good practices of policymaker recommendation. HEIs have been tasked with the challenges of sustainable development goals in collaborative culture. It offers institutional capacity worldwide to achieve the effort for sustainable development goals such as knowledge and integration of the research process (Mallillin, et al. 2020). It scaffolds the content and framework contribution and innovation of sustainable development goals. It organizes the principal context approach and challenges in the institutional

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achievement of strategic goals and plans. It demonstrates challenges faced by the stakeholders in the sustainable development goals and categories. It collaborates with the needful culture research. It aligns the capacity to achieve sustainable development goals. It fosters a unique process for the cultivation of research culture for and sustainable development goals (Wright, et al. 2022, p. 1273).

On the other hand, HEIs are necessary in sustainable development goals in cultivating the culture of research excellence. It allows education in various keys for sustainable development goals. It can break the cycle of poverty for people to obtain quality education because it can answer the needs of people. Education can reduce inequality and inadequacy of life and adopt the approach of leadership in a management educational system mechanism (Mallillin, 2022). It is the progress for quality education learning losses. It helps in the empowerment of people, sustainable lives and healthy living. It fosters tolerance in the crucial sustainable development goals in education for the contribution of a more peaceful community. It finances the educational goals and priority to measure the increased basic needs in a digital transformation and essentiality to provide intervention in the educational system (Mallillin, 2022, pp. 99-121). The HEIs progress the education and continued efforts and requirements in addressing the persistent challenges in sustainable development goals accessibility. It provides a role in facilitating the necessity of sustainable development goals inclusivity (Eichberg, & Charles, 2024, pp. 2752). It engages on policy making to increase emphasis of sustainable development goals in a systematic approach based on domains of learning (Mallillin, 2020, pp. 1-11). It contributes to the SDGs and academic knowledge for a transformative approach in learning action. It determines the influences and factors perception in the research culture and impact cultivation and sustainable development goals. It demonstrates the research culture excellence for various sustainable development goals and dimensions learning and strategy (Mallillin, et al. 2021). It regulates the research culture outcome implementation and frame policies pertinent to various issues and challenges of the culture of research excellence (Devesh, & Nanjundaswamy, 2023).

Furthermore, the role of HEIs sustainable development goals in cultivating research culture is crucial because it provides necessary solutions and recommendations for the improved progress and development of the society, culture, innovation, ideas, and people (Mallillin, et al. 2022). The role of HEIs provides education in the community implementation of sustainable development goals. It provides a basis for the approach of sustainable development goals and solutions to meet the technology and challenges of the educational system through research culture, cultivation, concept, and framework (Mallillin, 2023, pp. 1-17). It adopts global development in the government era. It guides the goals of a sustainable development plan in embracing the dimension of social and

economic balance towards equitable and sustainability. It focuses on the key features and sustainability of research cultivating culture to be integrated in the major needs and concerns in the society. The role of HEIs in the sustainable development goals and research culture in the educational setting explores the challenges appropriate to technology and solutions in providing access to improve the system of life among the people and its communities (Berchin, et al. 2021, pp. 1204-1222). On the other hand, the role of HEIs in the sustainable development goals in cultivating research culture plays a significant contribution sphere and key elements goals and sustainability achievement. It is the main procedure and the essential practice of sustainable development goals in instilling the methods and process of culture research sustainability. It features the role and aims of research culture excellence in a global engagement program in the various educational systems (Li, et al. 2023).

Moreover, the application of HEIs in research culture for sustainable development goals in the various institutions includes the extent of current curriculum needed by the learners and community (Mallillin, n.d.). This adds connection of specific sustainable development goals to school activities and commemoration of the global national needs process. It creates a roadmap on sustainable development goals for a better generation in the society. This can support the quality of education and sustainable development goals. It is a goal for both in attaining the integral part and sustainable development goals. It presents implication and significant strategy attainment of sustainable development goals to enhance the opportunity in learning. It maps the possible SDGs or themes in the HEIs to complete the activity process and accessibility appropriateness. The application of HEIs sustainable development goals includes the extent of student learning, hygiene, and challenges. It develops empathy simulation in various situations. It demonstrates access to quality of life and learning. It fosters students' participation in research culture in a sustainable development goal (Filho, et al. 2024). In addition, the application of HEIs in research culture for sustainable development goals signifies the process of the application to evaluate the research culture excellence to identify and evaluate efficacy of the university in sustaining the development goals of the research process and excellence. It integrates the systematic process of research culture and excellence for sustainable development goals of HEIs (Alcántara-Rubio, et al. 2022).

STATEMENT OF THE PROBLEM

1. What is the extent of cultivating culture research excellence for a Higher Education Institutions (HEIs) through sustainable development goal in terms of
 - 1.1 research innovation,
 - 1.2 community engagement,
 - 1.3 research collaboration,

- 1.4 research application, and
- 1.5 research interdisciplinary?
2. What extent of culture research excellence for Higher Education Institutions to become part of the sustainable development goals among the respondents?

RESEARCH DESIGN

The research design employs the mixed methods that deal with Focus Group Discussion (FGD) on the extent of cultivating culture research excellence for Higher Education Institutions (HEIs) through sustainable development goals in terms of research innovation, community engagement, research collaboration, research application, and research interdisciplinary. This includes the evaluation and analysis on the extent of culture research excellence for Higher Education Institutions to become part of the sustainable development goals among the respondents. It advances the quality and criteria of mixed methods in the field of numerous research processes that incorporate perspectives and diverse research design. It synthesizes the resource methods in the research as to qualitative, quantitative, or mixed methods. It is a diverse source of information and development essential in the research process (Hirose, & Creswell, 2023, pp. 12-28).

RESULTS

On the Extent of Cultivating Culture Research Excellence for a Higher Education Institutions (HEIs) Through Sustainable Development Goals

Table 1. Extent of Cultivating Culture Research Excellence for a Higher Education Institutions (HEIs) Through Sustainable Development Goals

Indicators	WM	I	R
1. It provides concept and development in recognition of research application considering the factors in broadening the scope of sustainable development goals and plans.	4.15	E	5.5
2. Research collaboration is a necessary paradigm and strategy in sustainable development goals.	3.90	E	12
3. It transforms the world of action for justice, prosperity, enjoy health, protection of environment, end inequality, poverty and call for action.	3.81	E	13.5
4. It presents the research innovation development activities to introduce new services and products in the organization.	3.68	E	16
5. It helps the community on their needs and understanding the information process of community research and self-organization.	4.23	HE	1.5
6. It develops responses to the needs of environment awareness and literacy in the solution of sustainable development goals and human behavior.	3.38	SE	19.5
7. It increases the research collaboration on sustainable development goals to influence the organizational growth in the community.	3.79	E	15
8. Research application in sustainable development goals includes environment, community, basic needs, poverty issues, income, distribution, health, nutrition, education, and employment.	3.62	E	17
9. It aids the process of decision-making research innovation for sustainable development goals.	3.57	E	18
10. It ensures the research interdisciplinary approach and partnership effectiveness to compromise and achieve sustainable development goals.	3.97	E	10.5
11. It improves the possibility of community engagement in research relevant to the improved sustainable development goals and disparities.	3.38	SE	19.5

SAMPLING TECHNIQUES

Purposive sampling is utilized in the selection of sample size and population of the study. It is a non-probability sampling technique that is selective, subjective, and judgmental. It is a sampling technique that processes and acts which is suitable for the population and size representative in the entire study. It determines the characteristics and parameters of the sample size and population based on the predefined criteria. It is a subset of sampling techniques in making the purpose of the selection process. It comprises several stages and processes that defines the population target of the sample size in choosing the group of people, entity, and accessibility (Obilor, 2023, pp. 1-7).

SUBJECT OF THE STUDY

The subjects of the study are the different researchers in the various agencies who are involved in research and development in both public and private sectors. They are from the various Higher Educational Institutions such as Commission on Higher Education (CHED), Technical Education Skills and Development Authority (TESDA), Department of Science and Technology (DOST), and including the Department of Education (DepEd). DepEd is included because they have a program in the research and development system. The study comprised sixty (60) respondents only.

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12. It addresses the development of the improved sustainable development goals, dynamics, process, and change.	3.97	E	10.5
13. It engages appropriate communication channels and methods in the research innovation such as social media, publication, presentation, and reports.	3.81	E	13.5
14. It manages the sustainable development goals in enhancing research interdisciplinary growth that aids decision-making process.	4.20	HE	3.5
15. It provides sustainable partnership relative to research collaboration on global challenges for better alignment innovation and progress.	4.00	E	9
16. It empowers the community-based research inclusive to recognize the value and democratic perspectives and strengths.	4.04	E	8
17. It develops a significant respect to research application for sustainable development goals transformation approach to the community.	4.20	HE	3.5
18. It explores the method and analysis of research collaboration support for the output of sustainable development goals and definition.	4.10	E	7
19. It involves coalition and partnership in the community engagement to influence the resources system, practices, programs, and catalyst for change policies and mobilization.	4.15	E	5.5
20. It enhances the growth of research innovation and development in the organization to build credibility, trust, support, and inspire change and action.	4.23	HE	1.5
Average Weighted Mean	3.909	E	
Standard Deviation	0.271		

Table 1 presents the weighted mean and the corresponding interpretation on the extent of cultivating culture research excellence for Higher Education Institutions (HEIs) through sustainable development goals among the respondents.

As shown in the table, rank 1 is shared by the two indicators which are “It helps the community on their needs and understanding information process of community research and self-organization”, and “It enhances the growth of research innovation and development in the organization to build credibility, trust, support, and inspire change and action”, with a weighted mean of 4.23 or Highly Extent which means that cultivating research excellence in the HEIs is highly observed. Rank 2 is also shared by the two indicators which are “It manages the sustainable development goals in enhancing research interdisciplinary growth that aids decision-making process”, and “It develops a significant respect to research application for sustainable development goals transformation approach to the community”, with a weighted mean of 4.20 or Highly Extent which means that cultivating research excellence in the HEIs is highly

observed. Rank 3 is shared by the two indicators which are “It provides concept and development in recognition to research application considering the factors in broadening the scope of sustainable development goals and plans”, and “It involves coalition and partnership in the community engagement to influence the resource systems, practices, programs, and catalyst for change policies and mobilization”, with a weighted mean of 4.15 or Extent which means that cultivating research excellence in the HEIs is observed. The least in rank is also shared by the two indicators which are “It develops response to the needs of environment awareness and literacy in the solution of sustainable development goals and human behavior”, and “It improves the possibility of community engagement in research relevant to the improved sustainable development goals and disparities”, with a weighted mean of 3.38 or Slightly Extent which means that cultivating research excellence in the HEIs is limited. The overall average weighted mean is 3.909 (SD=0.271) or Extent on the extent of cultivating culture research excellence for Higher Education Institutions (HEIs) through sustainable development goals as observed among the respondents.

On the Extent Level of Culture Research Excellence for a Higher Education Institutions to Become Part of the Sustainable Development Goals among the Respondents

Table 2. Thematic Analysis and Core Ideas on the Extent Level of Culture Research Excellence for a HEIs as Part of SDGs Among the Respondents

Themes	Response of the Respondents	Core Ideas
1. Research innovation in sustainable development goals	Extent	<ul style="list-style-type: none"> enhances the growth of research innovation and development process of decision-making research innovation research innovation development communication channels and methods in the research innovation

2. Community engagement in sustainable development goals	Extent	<ul style="list-style-type: none"> • involves coalition and partnership • empowers community-based research • process of community research • community engagement research relevant
3. Research collaboration in sustainable development goals	Extent	<ul style="list-style-type: none"> • paradigm and strategy • research collaboration support • organizational growth in the community • global challenges innovation progress
4. Research application in sustainable development goals	Extent	<ul style="list-style-type: none"> • transformation approach to the community • concept and development recognition • research application and sustainability • addresses sustainable development goals
5. Research interdisciplinary insustainabledevelopment goals	Extent	<ul style="list-style-type: none"> • approach and partnership effectiveness • transforms the world of action • aids decision-making process • develops response needs

Table 2 presents the thematic analysis and core ideas on the extent of culture research excellence for Higher Education Institutions to become part of the sustainable development goals among the respondents.

RESEARCH INNOVATION IN SUSTAINABLE DEVELOPMENT GOALS

The research innovation in sustainable development goals leads to a framework program to ensure proper approach in the HEIs and governance. It transitions the management system and perspective policy success and pursuit of the sustainable development goals of government reflexivity in the educational system. It provides insights in supporting and shaping the preparation program of the HEIs process and orientation. It influences the research innovation in sustainable development goals implementation and extent characteristic program that contributes to the transition and sustainability process. It addresses the support of the paradigm and necessary research innovation for sustainable technical policies and regimes in the HEIs and government organization (Kastrinos, & Weber, 2020). The participants claim that:

"It enhances the growth of research innovation and development in the organization to build credibility, trust, support, and inspire change and action". T1, P53 & P8

"It aids the process of decision-making research innovation for sustainable development goals". T1, P47 & P11

"It presents the research innovation development activities to introduce new services and products in the organization". T1, P42 & P16

"It engages appropriate communication channels and methods in the research innovation such as social media, publication, presentation, and reports". T1, P39 & P12

COMMUNITY ENGAGEMENT IN SUSTAINABLE DEVELOPMENT GOALS

The community engagement in sustainable development goals in the research cultivation culture of HEIs promotes and implements alliance impact of raising awareness and solutions to the needs of the community based on research and development programs. It analyzes the community engagement sustainable development goals of research excellence to provide system, network, skills, and personal research innovation implementation to the fullest. It engages technical and training in the educational system influenced parameter of feasibility research feasibility planning and implementation. It influences the research community engagement in sustainable development goals and technical skills. It draws personal experiences in the educational system and effectiveness of sustainable development goals to improve the community engagement plans (Salleh, et al. 2023, pp. 201-211). The participants claim that:

"It involves coalition and partnership in the community engagement to influence the resources system, practices, programs, and catalyst for change policies and mobilization". T2, P49 & P7

"It empowers the community-based research inclusive to recognize the value and democratic perspectives and strengths". T2, P47 & P11

"It helps the community on their needs, information, and understanding information process of community research and self-organization". T2, P43 & P17

"It improves the possibility of community engagement in research relevant to the improved sustainable development goals and disparities". T2, P39 & P19

RESEARCH COLLABORATION IN SUSTAINABLE DEVELOPMENT GOALS

Research collaboration in sustainable development goals is necessary for the practice and implementation of HEIs global research in SDGs agenda. It builds better collaboration for the improvement process of the SDGs target. It analyzes and benchmarks the impact of research collaboration related to global SDGs. It is very influential in research collaboration in the community. It analyzes the aim of the research collaboration output for sustainable development goals. It emphasizes the support of research collaboration implementation of the HEIs. It serves to provide commitment in enabling the creativity and research collaboration involvement comprehensive and integral part of sustainable development goals. It addresses the knowledge and involvement of related research collaboration processes and knowledge processes. It sustains the background and disciplinary endeavor research collaboration of HEIs in sustainable development goals (Alfirević, et al. 2023). The participants claim that:

"Research collaboration is a necessary paradigm and strategy in sustainable development goals". T3, P54 & P6

"It explores the method and analysis of research collaboration to support output of sustainable development goals and definition". T3, P51 & P9

"It increases the research collaboration on sustainable development goals to influence the organizational growth in the community". T3, P49 & P8

"It provides sustainable partnership relative to research collaboration on global challenges for better alignment, innovation and progress". T3, P43 & P16

RESEARCH APPLICATION IN SUSTAINABLE DEVELOPMENT GOALS

The research application in sustainable development goals is based on the needs of the community and its people as implemented by the cultivating culture research excellence of the Higher Education Institutions. It is scientific research on the pivotal role knowledge application of research to improve the system and process in the community from good, better, and best. It adopts on reinvigorated sustainable development goals of the academic production process of HEIs. It provides approaches and development of academic research achievement and support in the educational system as part of the SDGs. It highlights the research application in sustainable development goals. It connects the analysis of the interdisciplinary field of decision-making, urban localization, ecosystem, circular economy, and governance (Trane, et al. 2023). The participants claim that:

"It develops a significant respect to research application for sustainable development goals transformation approach to the community". T4, P50 & P5

"It provides concept and development in recognition of research applications considering the factors in broadening the scope of sustainable development goals and plans". T4, P47 & P11

"Research application in sustainable development goals includes environment, community, basic needs, poverty issues, income, distribution, health, nutrition, education, and employment". T4, P44 & P12

"It addresses the development of the improved sustainable development goals, dynamics, process, and change". T4, P41 & P15

5. RESEARCH INTERDISCIPLINARY IN SUSTAINABLE DEVELOPMENT GOALS

The research interdisciplinary in sustainable development goals is necessary in the program of HEIs. It involves research, interdisciplinary implementation, and promotion of SDGs. It emphasizes partnership of HEIs sustainable development goals and innovation due to lack of practical solutions in the educational system process. It leads innovation and analysis of research interdisciplinary implementation of HEIs as part of the sustainable development goals necessary in the improved system organization. Research interdisciplinary contributes to the sustainable development goals and achievement. It demonstrates analysis of interdisciplinary research in the pursuit of sustainable development goals. It contributes to the collaboration of research, interdisciplinary promotion and process of sustainable development goals (Podgórska, & Zdonek, 2023). The participants claim that:

"It ensures the research interdisciplinary approach and partnership effectiveness to compromise and achieve sustainable development goals". T5, P51 & P6

"It transforms the world of action for justice, prosperity, enjoy health, protection of environment, end inequality, poverty, and call for action". T5, P46 & P10

"It manages the sustainable development goals in enhancing research interdisciplinary growth that aids decision-making process". T5, P43 & P13

"It develops response to the needs of environment awareness and literacy in the solution of sustainable development goals and human behavior". T5, P40 & P17

DISCUSSION

The extent of cultivating culture research excellence for Higher Education Institutions (HEIs) through sustainable

development goals among the respondents helps the needs and understanding information process of community research and self-organization. This includes enhancing the growth of research innovation and development in the organization to build credibility, trust, support, inspire, change, and action. It also manages the sustainable development goals in enhancing research interdisciplinary growth to aid decision-making process and develops a significant respect to research application for sustainable development goals transformation approach to the community achievement and transition of sustainable innovation of research in HEIs (Mallillin, et al. n.d.). It delivers to address the concern on the important innovation of research and development for sustainable development goals. It directs attention to the learning process and innovation of research process implementation (Sarpong, et al. 2023). On the other hand, the extent of cultivating cultural research excellence for Higher Education Institutions (HEIs) through sustainable development goals among the respondents provides a concept in recognition of research application considering the factors in broadening the scope of sustainable development goals and plans. It involves coalition and partnership in the community engagement to influence the resource system, practices, programs, and catalyst for change policies and mobilization. This includes developing responses to the needs of environment awareness and literacy in the solution of sustainable development goals and human behavior and to improve the possibility of community engagement in research relevant to the improved sustainable development goals and disparities. It plays a significant role in the HEIs in fostering the advanced sustainable development goals in research culture innovation (Cherniavska, et al. 2023).

Notably, research innovation in sustainable development goals enhances the growth in the organization to build credibility, trust, support, inspire, change, and action. It also shows to aid the process of decision-making research innovation for sustainable development goals. It seeks possibilities for research innovation and sustainable development goals and policies (Mallillin, et al. n.d.). The research innovation is focused on the improved process and system in the organization to implement in providing better solutions to the sustainable development goals in the community and its people. It also incorporates the economic development and growth in the community and technology innovation. It provides policies on the impact of the community and clear insight of research innovation in sustainable development goals (Xing, et al. 2023, pp. 1178-1192). In addition, research innovation in sustainable development goals presents activities to introduce new services and products in the organization. It also shows how to engage appropriate communication channels and methods in the research innovation such as social media, publication, presentation, and reports. It explicitly addresses the research innovation and sustainable goals, initiatives, and implementation. It explores collaboration and mechanism to

facilitate and enact the sustainable development pursuit. It focuses on the collaboration of research innovation for the fulfillment and contribution of sustainable development goals. It creates a potential value to reinforce the mechanism and role of research innovation and sustainable development goals of HEIs. It manages the prompt research innovation and collaboration process. It plays a significant role in the research innovation and service influences on HEIs sustainable development goals (Mariani, et al. 2022, pp. 1075-1095).

Indeed, community engagement in sustainable development goals involves coalition and partnership in the community engagement to influence the resource system, practices, programs, and catalyst for change policies and mobilization. It empowers the community-based research inclusive to recognize the value and democratic perspectives and strengths. It transforms sustainable development goals in the implementation of HEIs in the society. It illustrates the community engagement for the solution of sustainable development goals, process, and system in the organization issues that resulted in HEIs action and orientation learning. It focuses on the local safeguarding urgency of action and models of community engagement. It sustains the action learning orientation in the community engagement sustainable development goals and needs in the global agenda. It promotes and implements community engagement capacity and impact (Park, et al. 2023, pp. 178-190). In addition, community engagement in sustainable development goals help the community on their needs, information, and understanding information process of community research and self-organization. It also shows to improve the possibility of community engagement in research relevant to the improved sustainable development goals and disparities. It engages deliberately on the academic approaches in the HEIs and implementation for the achievement of sustainable development goals. It advocates on the support and engagement knowledge acquisition requirements creativity and innovation of equitable community achievement for social sustainability organization. It develops support and model community engagement that influences innovation and development. It enables the HEIs in the connection of community engagement research process and innovation services (Anthony 2023, pp. 1-33).

Furthermore, research collaboration in sustainable development goals is a necessary paradigm and strategy in sustainable development goals because it explores the method and analysis of research collaboration in support output of sustainable development goals and definition. It addresses and collects effort on the research collaboration in adapting the sustainable development goals agenda and curricula in partnership with the HEIs to foster competency and decision making. It explores how to integrate the research collaboration of the HEIs for sustainable development goals into curricula and partnership. It analyzes the academic institutions to transform research collaboration in support

of universal leadership responsibility, value sustainability, and ethics. It engages research platform discipline and implementation to address involvement of sustainable development goals (Avelar, et al. 2023, pp. 299-325). Hence, it increases the research collaboration on sustainable development goals to influence the organizational growth in the community. It also provides sustainable partnership relative to research collaboration on global challenges for better alignment innovation and progress. It increases sustainable development goals in the consolidation process of research collaboration and relevance. It analyzes the process of research collaboration and collection of SDGs diversification and trends. It categorizes sustainability research collaboration needed for culture research excellence of HEIs. It demonstrates the evolution of culture research and cultivation system (Yamaguchi, et al. 2023, pp. 5502-5515).

Moreover, research application in sustainable development goals develops a significant respect to transformation approach in the community system. It also provides concept and development in recognition of research application considering the factors in broadening the scope of sustainable development goals and plans. It continues to stagger research applications. It involves sustainable development goals to highlight research collaboration and reasons. The research application presents the sustainable development goals and process to ensure prosperity and peace in the community. This eliminates poverty and necessity for humanity. It requires contribution of research application perspectives and dimensions sustainability in accordance with the trend of technology. It supports the contribution of research application and integration. It identifies the technology process connection for sustainable development goals and research application. It utilizes resources and optimizes the process of research application in sustainable development goals (Ali, et al. 2023). In addition, research applications in sustainable development goals include environment, community, basic needs, poverty issues, income, distribution, health, nutrition, education, and employment. It also addresses the development of the improved sustainable development goals, dynamics, process, and change. It measures the progress of sustainable goals and research application and human development. It explores the variation and structure of the indicated research application and SDGs in describing culture and research (Medina-Hernández, et al. 2023).

Finally, research interdisciplinary in sustainable development goals ensures the approach and partnership effectiveness. It transforms the world of action for justice, prosperity, enjoy health, protection of environment, end inequality, poverty, and call for action. It presents the promotion of pedagogical tools for interdisciplinary education outcome simulation to reflect the action and exploration facilities in the sustainable development goals and interconnection to research interdisciplinary process. It constrains an interdisciplinary approach in research sustainability. It connects the suitable

principles of research, interdisciplinary goals, and projects. It plays a thorough support and function knowledge approach for active learners centered in the educational setting and HEIs system development facilities working team and attitude. It is the best knowledge for interdisciplinary research sustainability in a wide range goal (Andreoni, & Richard, 2024, pp. 21-42). Also, It manages the sustainable development goals in enhancing research interdisciplinary growth to aid decision-making process and develops response to the needs of environment awareness and literacy solution of sustainable development goals and human behavior. It emphasizes the improved development of progress in interdisciplinary research connection for sustainability goals. It matches the progress of the constituents' sustainable development goals. It captures the framework of research interdisciplinary power and integration practice determination program to sustainable development goals. It promotes framework on interdisciplinary collaboration and structure training to the approach of research interdisciplinary innovation. It exposes an interdisciplinary research perspective and integration to embrace connection of boundaries in the sustainable development goals (Keynejad, et al. 2021).

CONCLUSIONS

It shows that the extent of cultivating culture research excellence for a Higher Education Institutions (HEIs) through sustainable development goals among the respondents helps the community on their needs and understanding information process of community research and self-organization where it enhances the growth of research innovation and development in the organization to build credibility, trust, support, inspire, change, and action.

It shows that research innovation in sustainable development goals organization builds credibility, trust, support, inspire, change, and action since it aids the process of decision-making research innovation for sustainable development goals where it presents the research innovation development activities to introduce new services and products in the organization to engage appropriate communication channels and methods such as social media, publication, presentation, and reports.

It shows that community engagement in sustainable development goals involves coalition and partnership in the community engagement to influence the resources, system, practices, programs, and catalyst for change policies and mobilization where it empowers the community-based research inclusive to recognize the value and democratic perspectives and strengths. This includes helping the community on their needs and understanding the information process of community research and self-organization.

It shows that research collaboration in sustainable development goals is necessary paradigm and strategy to explore the method and analysis of research collaboration in support of sustainable development goals and definition

where it increases the research collaboration on sustainable development goals to influence the organizational growth in the community global challenges for better alignment, innovation and progress.

It shows that research application in sustainable development goals develop a significant transformation approach in the community where it provides concept and development in recognition to research application considering the factors in broadening the scope of sustainable development goals and plans. This includes environment, community, basic needs, poverty issues, income, distribution, health, nutrition, education, and employment.

It shows that research interdisciplinary in sustainable development goals ensures approach and partnership effectiveness to compromise and able sustainable development goals since it transforms the world of action for justice, prosperity, enjoy health, protection of environment, end inequality, poverty and call for action where it manages the sustainable development goals in enhancing research interdisciplinary growth that aids decision-making process.

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