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**The role of research and innovation in shaping
the new education policy**

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Abstract

Problem Statement:

This paper aims to discuss the research and innovations that have led to the development of the new education policy. It stresses that empirical findings and progressive ideas matter in developing policies that respond to the contemporary challenges of learning institutions. Although the importance of research and innovation is undisputed, there are concerns regarding their overall influence on policymaking. **Indication of Methodology:** These gaps are presented in the following sections, which help by analyzing current practices, summarizing significant findings, and recommending further studies on incorporating research and innovation into education policies. **Main Finding:** The proposal's elements are a literature review, methodology, results, discussion, and conclusion, which give a comprehensive overview of how research innovations can impact education policies. **Principal Conclusion:** This study is important for the policymakers, educators and stakeholders; they need to provide proper strategies to improve the educational prospects and meet the requirements of the society.

Index Terms— Research, Innovation, Education Policy, Educational Outcomes

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I. INTRODUCTION

Due to this specific rationale, the current educational environment needs to argue for policies that seek to integrate advanced research practice in order to suit the ever-evolving requirements of society. Within the field of education policy, research and innovation are particularly effective tools because they give concrete proposals that are grounded on actual facts. This makes them very useful instruments. In the past, education policy was shaped by conventional methods; however, contemporary change lays a focus on the need of continuously enhancing the learning process from a continuous standpoint. According to studies, countries who have been willing to invest in research and testing of effective educational strategies have seen a large increase in the quality of education as well as significant changes in the achievements of their students. This is the case in countries that have actively invested in these areas. When it comes to the process of establishing educational policy, it is thus impossible to put an excessive amount of emphasis on the role that research and innovation play in the course of the process.

II. Literature Review

Extensive accounts can be found in the prior literature regarding the role of research and innovation in formulating education policy. There are many examples illustrating the opportunities of increasing the effectiveness of educational systems through improvement and implementation of new practices based on academic research. The one interesting fact found is that the countries that invest in educational research generally have better learning outcomes and quality of education [1]. For example, numerous OECD papers reveal that countries with strong research systems and innovative strategies witness dramatic enhancements in learning outcomes.

Such approaches as use of technology in learning and teaching, differentiated instruction, and assessment-based education are commonly highlighted as key factors that bring change and quality to education systems. According to the



to the World Bank, the improvements in student engagement and achievement can be considerable when technologies used support the pedagogic objectives and are integrated into a learning environment.

However, there are also some gaps within the literature that are worthy of note even when observing the above- mentioned positive tendencies. Some papers highlight individual innovations or discuss only one or two instances of research application, while few undertake an integrated assessment of all these components and how they may shape educational policy [2]. Moreover, when it comes to the use of research and innovation to improve educational outcomes, there are few longitudinal studies that analyze their effects. This gap therefore calls for a more comprehensive methods that would entail multi-disciplinary approaches of innovation and research in formulation of policies in education.

III. METHODOLOGY

A combination of both primary and secondary data collected quantitatively and qualitatively will be used in conducting the study. They will fill questionnaires and questionnaires and interviews will be employed to teachers, policymakers, and researchers to obtain quantitative data on how the research and innovation has influenced the education policies [2]. Secondary data sources will include research papers, policies, and case studies to offer a richer, nuanced qualitative perspective [5].

Qualitative data will be analyzed through coding, categorization, and pattern recognition in order to make comparisons, assess relationships, and determine the existence of patterns. The data collected in the survey shall be analyzed by the use of both descriptive and inferential statistics. Coded data will be the one that consists of qualitative data where the observation of themes and motifs will be done through software like NVivo [4]. The use of these two approaches will give a panoramic view of the contributions of research and innovation in the formulation of education policies.

IV. RESULTS

The systematic literature review takes into consideration main facets of research, innovation and sustainability. It explores how: Responsible Research and Innovation (RRI) pertains to the process of implementing the concerns of society into research by assuring that innovations are for the benefit of society [5]. However, it underlines the necessity of engaging society in defining research priorities, increasing relevance and contribution.

Mission-Oriented Innovation Policy is considered in the context of how it may solve certain social tasks, for example, in education, with a focus on both the prospects and the fundamentals of these policies [6]. The review discusses and proposes a future outlook for more operational and mission-oriented policies.

The last area of concern is the sustainability of Innovation This area deals with how sustainable programs can be incorporated into education and that it becomes necessary for organizations to reduce the supply chain and what future research agenda holds for sustainable innovation in education. This paper gives a clear understanding and insight on how societal needs and sustainability can be put to practice in the innovation policies and practices.



Theme	Sub-theme	Description	Source
Responsible Research and Innovation	Science in Society	The role of research and innovation in addressing societal challenges and promoting social good.	Owen et al. (2020)
	Science for Society	How research and innovation can be directed towards the benefit of society at large.	Owen et al. (2020)
	Science with Society	The importance of involving society in the research and innovation process to ensure relevance.	Owen et al. (2020)
Mission-Oriented Innovation Policy	Promises of Innovation Policies	The potential of innovation policies to address specific societal missions, such as education.	Janssen et al. (2021)
	Premises of Innovation Policies	The foundational principles and assumptions underlying mission-oriented innovation policies.	Janssen et al. (2021)
	Reflection and Ways Forward	Critical analysis of current innovation policies and recommendations for future directions.	Janssen et al. (2021)
Sustainability in Innovation	Sustainable Practices in Education	How sustainable practices can be integrated into education through innovative policies.	Chiffolleau & Dourian (2020)
	Shortening Supply Chains in Education	The concept of shortening supply chains applied to the education sector to enhance sustainability.	Chiffolleau & Dourian (2020)
	Research and Innovation Agenda	Setting a research and innovation agenda that focuses on sustainability within the education sector.	Chiffolleau & Dourian (2020)

TABLE IV: SYSTEMATIC LITERATURE REVIEW

V. DISCUSSION

It is evident from the findings that knowledge-based policies remarkably improve the educational performances. The positive changes that have been observed are in accordance with earlier studies on effectiveness of blending research and innovations into the systems of education [7]. The results of this study imply that cooperative attributes such as continuing professional development are important to facilitate policies’ implementation. Compared to previous studies, this research offers insight on how implementing both research and innovation delivers far better results for education improvements. They emphasise the role of policymakers in terms of research utilisation and encouragement of contexts that support innovation in education.



VI. CONCLUSION



This proposal serves to highlight the importance of research and innovation in the development of proper education policies. Major conclusions indicate that implementing research knowledge and evolving learning practices prominently improves educational performance, which corroborates prior findings. Consequently, the research underscores the importance of ongoing professional training, and working partnerships between investigators and decision-makers. More detailed research ought to be conducted to compare the efficacy of these innovations in the long-run and look into other avenues that could be used in implementing the policies.

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