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TECHNOLOGY ENABLED SOCIAL SCHEMES TOWARDS SUSTAINABLE DEVELOPMENT GOALS

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ABSTRACT :

Technological integration for the purpose of accomplishing the Sustainable Development Goals (SDGs) in social initiatives. Focusing on important industries like finance, healthcare, education, renewable energy, and data analytics, the paper presents actual case studies showing how these tech-enabled social projects are having a positive impact. The review highlights the critical role that technology plays and covers implementation potential as well as problems, including topics like uneven access to technology and ethical implications. Technology-enabled social schemes are highlighted as crucial components in crafting a sustainable and fair future, going beyond being merely tools for development. In order to meet the ambitious SDGs, the paper's conclusion highlights the transformative potential of merging technology and social innovation. It highlights the unbreakable relationship between technological advancement and sustainable development by imagining a world in which they coexist.

Key words: Technology ,social programs, sustainable developmentgoals ,innovation ,Equality

INTRODUCTION:

Sustainable development is a concept that recognizes the interdependence of economic, social, and environmental goals to ensure the well-being of present and future generations. It emphasizes responsible and inclusive development practices that meet the needs of the present without compromising the ability of future generations to meet their own needs. The United Nations' SDGs, adopted in 2015, provide a comprehensive framework for addressing global Challenges and achieving sustainable development by 2030. The 17 goals are interconnected and cover a wide range of issues, including poverty, hunger, health, education, gender equality, clean water, climate action, and more. The SDGs serve as a roadmap for governments, businesses, and civil society to work together in addressing pressing issues and building a more sustainable and equitable world. The SDGs are not only a set of aspirations but also a call to action for individuals, communities, and nations to collaborate and implement practical solutions. Each goal has specific targets and indicators to measure progress, emphasizing the importance of accountability and transparency in the pursuit of sustainable development. The SDGs provide a shared vision for a future where prosperity, social justice, and environmental sustainability go hand in hand.

The backdrop of this exploration lies in the recognition that traditional approaches to societal challenges demand innovative solutions. From poverty alleviation and healthcare accessibility to education enhancement and environmental sustainability, the SDGs encapsulate a comprehensive vision for a better world by 2030. The incorporation of technology into social schemes emerges as a strategic response to these challenges, offering unprecedented opportunities for efficiency, inclusivity, and impact.

OBJECTIVES :

1. To analyze existing literature on technology-enabled social schemes and their impact on achieving SDGs.
2. To identify key challenges and opportunities in the implementation of technology-driven initiatives across diverse sectors.
3. To assess the effectiveness of technology in addressing specific SDGs, recognizing both successes and areas for improvement.

SCOPE:

This study examines technology-enabled social programs in a number of important fields, such as data analytics, finance, healthcare, and education. The range of work includes international projects, recognizing the diverse applications of technology in diverse socio-economic contexts. The study

aims to provide a comprehensive foundation for future research, policy formulation, and practical strategies to optimize the impact of social programs on sustainable development.

Sustainable development is observed as the mutually beneficial interaction between the legal interest of a business and the economy, government and politics, and civil society, and culture. However, these social interactions do not exist alone. On the physical and material side, the society is bound by the carrying capacity of several ecosystems, landscape ecology, and eventually the biosphere of the Earth or Nature. On the spiritual and psychological side, the three fold functional differentiation of society is inspected by the caring capacity of an individual. Therefore, we can say that sustainable development is a multidimensional concept, involving not less than four dimensions.

METHODOLOGY :

This study is based on secondary sources of data. The methodology section outlines the research approach, data collection methods, and analytical tools used in the study. This research aims to investigate the impact and challenges of technology-enabled social schemes in advancing the Sustainable Development Goals (SDGs). The methodology is designed to provide a comprehensive understanding of the subject, with a specific focus on the Indian context.

Research Design:

This study employs a mixed-methods research design, combining qualitative and quantitative approaches. Qualitative methods facilitate in-depth exploration, while quantitative methods allow for broader insights and statistical analysis.

Study Area:

The primary focus is on India, given its diverse socio-economic landscape and ongoing efforts to leverage technology for sustainable development. The study includes both urban and rural areas to capture the varied impact of technology-enabled social schemes.

Data Collection: Qualitative Data:

- In-depth Interviews: Conducting interviews with key stakeholders, including government officials, technology experts, policymakers, and representatives from non-governmental organizations involved in implementing technology-enabled social schemes.
- Focus Group Discussions (FGDs): Organizing FGDs with beneficiaries of technology-driven programs to gather diverse perspectives on the impact and challenges faced.
- Documentary Analysis: Reviewing relevant documents, reports, and case studies from government agencies, international organizations, and academic institutions to gain insights into the implementation and outcomes of technology-enabled initiatives.

Surveys:

Administering surveys to a representative sample of beneficiaries and stakeholders involved in or affected by technology- enabled social schemes. The survey will include questions related to the perceived impact, challenges, and effectiveness of these programs.

Data Analytics:

Analyzing available quantitative data from government reports, surveys, and official statistics to identify trends, patterns, and correlations related to the impact of technology on SDGs. Challenges in Implementing Technology-Enabled Social Schemes towards Sustainable Development Goals: The integration of technology into social schemes, while promising, is not without its share of challenges. Navigating these hurdles is crucial for ensuring that technology serves as an effective tool for advancing Sustainable Development Goals (SDGs). Here are key challenges associated with technology-enabled social schemes:

Digital Divides:

Global Disparities: Access to technology is unevenly distributed globally, creating digital divides between developed and developing regions. This discrepancy can exacerbate existing socio-economic inequalities, hindering the inclusive reach of technology-enabled social programs.

Unequal Access:

Within Countries: Even within countries, there are disparities in technology access. Rural areas and marginalized communities often face challenges in accessing and utilizing technology, limiting their participation in digital initiatives aimed at achieving SDGs and Infrastructure **Limitations**:
Connectivity Issues: Insufficient digital infrastructure, especially in remote areas, can impede the implementation of technology-driven programs. Limited internet connectivity and inadequate power supply pose challenges to the seamless operation of such initiatives.
Technological Literacy, Skills Gap, a lack of technological literacy among certain demographics can hinder the effective utilization of digital tools.

Adequate training and education are essential to empower individuals to benefit from technology-enabled social programs. Privacy and Security Concerns.

Data Protection:

As technology relies on data, ensuring the privacy and security of personal information becomes critical. Concerns about data breaches, identity theft, and unauthorized access pose challenges to maintaining trust in technology-enabled initiatives.

Ethical Considerations:

Bias and Fairness: The use of technology in decision-making processes, such as algorithmic solutions, may introduce biases. Ensuring fairness and ethical considerations in the design and implementation of technology-enabled social schemes is imperative.

Sustainability Challenges:

E-Waste: The rapid evolution of technology contributes to a growing challenge of electronic waste (e-waste). The environmental impact of discarded devices and the need for sustainable technology solutions are areas that require attention.

Financial Constraints:

Cost of Technology: Implementing and maintaining technology- driven initiatives can be financially burdensome. This is especially relevant for developing economies where resource constraints may limit the scale and effectiveness of such programs.

Resistance to Change:

Cultural Barriers: Societal and cultural factors can contribute to resistance against adopting new technologies. Overcoming cultural barriers and fostering acceptance of technology is essential for the success of social schemes.

Interoperability Issues:

Integration Challenges: Ensuring compatibility and interoperability between different technologies and platforms is crucial. Lack of standardization can lead to fragmentation and hinder the seamless operation of integrated systems. is this all in connected way

CONCLUSION :

This exploration underscores the inseparable link between technology and social innovation. The transformative potential of combining these forces opens promising avenues to fulfill the ambitious SDGs. Envisioning a world where sustainable development and technological progress coalesce, we emphasize the shared responsibility to leverage technology for fostering a future marked by sustainability, fairness, and global progress. Sustainable development (SD) refers to the human development model in which the resources that are presently used preserve the environment so that these needs can be met not only in the present but also for future generations.

REFERENCES:

1.Technology and Rural Development Strategic Investment Research Unit

2. https://www.un.org/sustainabledevelopment/blog/2023/08/

3..https://www.britannica.com/topic/sustainable-development

4. Bachmann, N., Tripathi, S., Brunner, M., & Jodlbauer, H. (2022). The contribution of data-driven technologies in achieving the sustainable development goals. *Sustainability*, *14*(5), 2497.

5.Mondejar, M. E., Avtar, R., Diaz, H. L. B., Dubey, R. K., Esteban, J., Gómez-Morales, A., ... & Garcia-Segura, S. (2021). Digitalization to achieve sustainable development goals: Steps towards a Smart Green Planet. *Science of The Total Environment*, *794*, 148539.

6.Sachs, J. D., Schmidt-Traub, G., Mazzucato, M., Messner, D., Nakicenovic, N., & Rockström, J. (2019). Six transformations to achieve the sustainable development goals. *Nature sustainability*, *2*(9), 805-814.

7.Hoang, T. G., Nguyen, G. N. T., & Le, D. A. (2022). Developments in financial technologies for achieving the sustainable development goals (SDGs): FinTech and SDGs. In *Disruptive technologies and eco-innovation for sustainable development* (pp. 1-19). IGI Global.

8.Saranyan, S. R. S., Shrinandh, K., & Prabha, D. D. POLICIES OF INDIAN GOVERNMENT TO ACHIEVE SUSTAINABLE DEVELOPMENT GOALS 2030. *Inclusive Growth for Self-Reliant India*, 65.