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# Research Reinforcement

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## ***Vasudhaiva Kutumbakam: A Universal Call for Knowledge, Collaboration, and Human Flourishing***

Dear Readers,

In an era of rapid technological advancement, global interconnectedness, and complex challenges, the ancient Indian ideal of "*Vasudhaiva Kutumbakam*", i.e., the *world is one family*, offers a meaningful vision for the future of research. As humanity grapples with climate change, public health crises, artificial intelligence, economic inequality, and geopolitical tensions, it is increasingly evident that no nation, institution, or discipline can address these challenges alone. The future of research lies in collaboration, inclusivity, and the collective pursuit of knowledge for the common good.

Research has always driven human progress, but today's problems demand interdisciplinary and global approaches. Issues such as climate change and emerging technologies extend beyond mere scientific inquiry, encompassing ethical, social, political, and economic dimensions. Addressing them requires cooperation among scholars, institutions, and communities across geographical and disciplinary boundaries.

The philosophy of *Vasudhaiva Kutumbakam* encourages us to view knowledge as a shared global resource. Scientific discoveries and intellectual achievements attain their greatest value when they contribute to the welfare of all humanity. This spirit promotes mutual learning, international partnerships, and collective responsibility in solving common challenges. Equally important are the democratization of knowledge through open access, community engagement, and the responsible dissemination of research so that its benefits reach all sections of society.

As the world becomes increasingly interconnected, researchers bear a responsibility that extends beyond generating knowledge. They must foster understanding, uphold ethical inquiry, and contribute to a more just, peaceful, and sustainable future. By embracing the spirit of *Vasudhaiva Kutumbakam* and transcending conventional boundaries, the global research community can create knowledge that not only advances scholarship but also strengthens the bonds that unite humanity.

This issue of the Research Reinforcement Journal *embodies the spirit of Vasudhaiva Kutumbakam by bringing together diverse voices, ideas, and experiences from across disciplines and regions. Each contribution enriches our understanding of the world while reinforcing the belief that knowledge flourishes through collaboration. Let our research not only expand the frontiers of knowledge but also strengthen the bonds that unite communities, nations, and humanity in pursuit of a more inclusive, peaceful, and sustainable future.*

Warm Regards,



**Prof. (Dr.) Pankaj Gupta**

The Editor in chief



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# Teacher Awareness of Proposed Educational Reforms in Sri Lanka: A Study Focusing on the North Central Province



**Dr. Pathmasiri Kumara Wanasinghe**

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## Abstract

*This research paper presents a scientific investigation into the awareness levels of government school teachers in the North Central Province regarding Sri Lanka's proposed educational reforms. The 2023-2033 National Education Policy Framework (NEPF) was introduced as a response to critical issues in the current system, including its heavy examination-driven focus, the mismatch between skills and job market requirements, and limited GDP allocation for education. Using a quantitative research design, data was collected through a structured questionnaire from a representative sample of 500 teachers across various school categories in the Anuradhapura and Polonnaruwa districts. The analysis indicates that while teachers have a relatively high awareness of structural elements (the "five pillars") and changes to their professional roles, their understanding of the philosophical foundations and the proposed technical "modular system" is significantly lacking. Overall, teachers exhibit a moderate level of awareness. A critical finding is that the primary barrier to both awareness and future implementation is the severe scarcity of physical resources, such as computers and stable internet connectivity, within schools. The researcher concludes that to bridge this gap, authorities must implement targeted professional development programs focusing on the technical and philosophical aspects of the reforms to ensure long-term effectiveness.*

**Keywords:** Education Reforms, Teacher Awareness, North Central Province, Resource Scarcity

## Introduction

The education system in Sri Lanka represents a complex nexus of historical evolution, political decision-making, and socio-economic aspirations spanning several decades. Following the introduction of the Free Education Policy by C.W.W. Kannangara in 1945 and the implementation of instruction in mother-tongue media, Sri Lanka successfully achieved universal primary education goals by 1964 (Liyanage, 2014). However, while Sri Lanka's post-independence achievement of a 93.1% literacy rate and the right to free education have earned international acclaim,

there remain profound criticisms regarding the system's structural vulnerabilities when faced with contemporary global requirements and domestic labor market demands (Jayaratne, 2023). Historically, major educational reforms were introduced in 1997 and 2003 with the primary objective of providing quality education for all. Yet, as highlighted by Little (2011) and Liyanage (2014), the implementation of these policies encountered numerous political and administrative obstacles. Currently, within Sri Lanka's 10,146 schools, over 4 million students are enrolled, yet the government allocates a mere 1.2% of the

# From Smart Homes to Agentic Homes: AI Adoption in Age Friendly Housing



**Woranut On-ubol**

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## Abstract

*Rapid population ageing, coupled with accelerating urbanisation, has intensified the demand for housing systems that support independent living, health, and wellbeing in later life. Smart home technologies have long been proposed as a solution; however, existing approaches remain fragmented, largely reactive, and technologically deterministic. Recent advances in artificial intelligence (AI), particularly agentic systems and large language models (LLMs), enable a fundamental shift from smart homes—characterised by rulebased automation—towards agentic homes, defined by adaptive, autonomous, and humancentred intelligence. This paper develops a maturity model for AI adoption in agefriendly housing, conceptualising the transition from conventional smart homes to fully agentic homes. Using a structured literature review of more than 40 peerreviewed articles, policy reports, and institutional publications from 2022 to 2026, the study synthesises insights from housing studies, gerontology, AI research, and public policy. The proposed model identifies five levels of maturity—ranging from basic automation to ethically governed, learningbased agentic environments—and articulates the technological, organisational, and governance capabilities required at each stage. The findings demonstrate that agentic homes have the potential to transform ageinginplace by enabling continuous health monitoring, emotional support, preventative care, and systemlevel integration with public services. However, the transition requires careful attention to affordability, ethics, and governance, particularly in emerging and advanced economies facing divergent institutional capacities. The paper concludes by outlining implications for researchers, policymakers, and housing providers seeking to develop inclusive and sustainable housing futures for ageing populations.*

**Keywords:** Affordable Housing, Agentic Homes, Gerontology, Policy Making, Artificial Intelligence

## Introduction

Population ageing has emerged as one of the defining demographic transformations of the twenty-first century. According to the United Nations, the number of people aged 65 years and above is projected to reach approximately 1.6 billion by 2050, with more than twothirds residing in urban areas (UN DESA, 2023). This demographic shift is occurring across both emerging and advanced

economies, albeit at different speeds and with varying institutional preparedness (Warner et al., 2024; OECD, 2025).

Most of the existing urban housing stock has been designed for younger, familybased households and does not adequately support physical decline, cognitive change, or social isolation in later life (Harvard Joint Center for Housing Studies, 2023). In response, *smart homes* equipped

# Buddhist Economics for Peace and Development in the World: A Brief Metamorphosis of the Silk Road, a Global Framework of BRI, and the Development Perspective of Nepal



**Shiva Adhikari**

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## Abstract

*Development is a connected process involving individuals, governments, and international communities. This paper follows the path of human progress from its beginnings in Africa through important civilizations to today's global development frameworks. It looks at historical examples like the ancient Silk Road, a 6,400 km trade network active from 130 BCE to 1500 CE. The study shows how connectivity has always driven economic, cultural, and ideological exchange across civilizations. The paper argues that China's Belt and Road Initiative (BRI) is a modern take on this ancient connectivity. It has the potential to promote peace and prosperity among participating nations. By integrating Buddhist Economic principles, especially the Eightfold Path and the Asta-Ja framework, which includes eight important natural and human resources, the study suggests a value-based development model that can help tackle ongoing socioeconomic gaps and global inequality. With the rise of geopolitical conflicts in Ukraine, Israel, Iran, and the Middle East, the paper emphasizes the need for peace-focused development strategies. Nepal is highlighted as a key case study due to its interest in BRI implementation as a way to drive economic change. A high-level symposium, held on January 1, 2025, with former Prime Minister Jhala Nath Khanal and notable Chinese scholars, shows the growing support for BRI adoption in Nepal. The study concludes that combining ethical, resource-centered, and historically informed approaches into global development policies can provide a sustainable and fair path for humanity.*

**Keywords:** BRI, Buddhist Economics, Silk Road, Asta-Ja Framework, Nepal, Sustainable Development

## Introduction

Recent breakthrough happened in the socio-economic paradigm shift becoming a BRI, initiated in Chinese innovator again as the Silk Road explored in the historic days. The Belt and Road Initiative (BRI) originated from the program as it was One Belt One Road that aiming at to expand the development activities collaboratively in the entire world. This program transformed into Belt and Road Initiative aiming at to expand the connectivity gradually all over the world. The program announced by Chinese president Xi Jinping in 2012

drawing attention of the international community to be working cooperatively for the welfare of the community and the national prosperity. For the overall management of the program China has been taking the responsibility aiming at to expand its worldwide network. Initiation forms of competencies ranging from China connecting worldwide network. Originally Chiana started win-win program through BRI, with the cooperation approach to global development spent 1 trillion dolar and the experts on this concern predicting the overall expenses could be as high as 8 trillion Dolor. (Council for Foreign relations).

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