

Art and Design for Sustainable Cultural Income Generation: A Socio-Ecological Framework for Creative Economic Empowerment in Malaysian Senior Citizen Centres

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ABSTRACT

Senior citizen centres in Malaysia are increasingly exposed to financial vulnerability due to demographic transitions and continued dependence on welfare-based funding structures. Despite possessing extensive cultural knowledge, artisanal expertise, and intangible heritage assets, these institutions rarely operationalise art and design as structured economic systems. This study addresses this theoretical gap by proposing a design led socio ecological framework that reconceptualises senior citizen centres as creative ecosystems capable of generating sustainable income. Grounded in the integration of the Triple Bottom Line and the Socio Ecological Model, the framework positions art and design as socio economic infrastructure embedded within multi-level sustainability systems. Five interrelated dimensions namely social engagement, economic growth, environmental sustainability, operational capacity and technology integration are theorised as key drivers of financial resilience and cultural sustainability. By reframing aging communities from welfare recipients to active cultural producers, this conceptual model advances Art and Design scholarship beyond aesthetic discourse toward systemic economic empowerment. The framework offers a foundation for future empirical validation and practical implementation within community based cultural enterprises.

Keywords: Senior Citizen Centres, Creative Ecosystems, Art and Cultural Tourism, Sustainable Income Generation, Socio-Ecological Framework.



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1 INTRODUCTION

Malaysia's transition toward an aging society presents structural challenges for institutions supporting older adults. Senior citizen centres traditionally rely on public funding, charitable contributions, and limited service-based income streams. As demographic shifts intensify, such welfare-oriented models become increasingly fragile and unsustainable.

The research problem underpinning this study lies in the limited theoretical articulation of art and design as structured economic systems within senior communities. Although senior citizens embody significant reservoirs of cultural memory, craft expertise, traditional aesthetics, and performative heritage, these intangible assets are rarely systematised into sustainable economic frameworks.

Within Malaysian design scholarship, the importance of visual communication in preserving and promoting cultural heritage has been clearly demonstrated. Mat Nashir@Mohd Nasir & Daimin (2022) show how digital illustration functions as a strategic medium for sustaining Kelantan's cultural identity, highlighting the economic and communicative potential of design practice. Such findings suggest that heritage-based design interventions can extend beyond representation toward structured cultural economies.

Similarly, research examining traditional colour schemes and cultural symbolism in animation contexts reveals how aesthetic decisions function as dynamic cultural mediums that influence perception and audience engagement (Farhan et al., 2025; Wenhui Cheng, 2009). These studies reinforce the notion that art and design are not merely aesthetic outputs but cultural systems capable of generating value.

However, there remains a theoretical gap in translating these design capacities into community-based economic empowerment models for aging institutions. Cultural tourism literature indicates that community-driven heritage initiatives can stimulate local economic development while preserving identity (Liu et al., 2023; Wondirad et al., 2020). Yet, few studies integrate these insights into an Art and Design centered framework tailored specifically to senior citizen centres.

This study addresses that gap by proposing an integrated framework grounded in sustainability theory and socio-ecological systems thinking, positioning art and design as drivers of creative economic resilience.

2 THEORETICAL FRAMEWORK

This study adopts an integrated theoretical framework combining the Triple Bottom Line (TBL) and the Socio-Ecological Model (SEM) to examine the sustainability of art and cultural tourism initiatives within senior citizen centres. The framework provides a multi-dimensional lens to analyse how economic viability, social inclusion, and environmental responsibility interact across interconnected individual, organisational, community, and policy levels to support sustainable income generation.

2.1 Triple Bottom Line and Cultural Sustainability

The Triple Bottom Line (TBL) framework conceptualises sustainability through economic viability, social equity, and environmental stewardship (Elkington, 1997). Sustainable business model scholarship further emphasises that innovation must simultaneously create financial value while generating positive social and environmental impact (Bocken et al., 2014).

When applied to art and design initiatives within senior centres, TBL enables cultural production to be evaluated not solely as expressive activity but as structured economic infrastructure. Craft enterprises, cultural exhibitions, and experiential heritage workshops can produce revenue while strengthening community inclusion and promoting environmentally responsible material practices.

2.2 Socio-Ecological Model and Multi-Level Cultural Systems

The Socio-Ecological Model (SEM) emphasises that sustainable outcomes emerge from interactions across individual, interpersonal, organisational, community, and policy levels (McLeroy et al., 1988). In tourism development contexts, stakeholder collaboration across these layers significantly influences sustainability outcomes (Wondirad et al., 2020).

Participation in cultural production strengthens social capital and collective identity (Zhang et al., 2020). Within senior citizen centres, art and design initiatives operate across interconnected systems. Seniors function as creative producers at the individual level; collaborative craft-making reinforces

interpersonal bonds; organisational capacity determines economic scalability; community partnerships embed production within tourism networks; and policy structures influence institutional sustainability.

2.3 Integrating Sustainability and Socio-Ecology in Design

The integration of TBL and SEM produces a systemic framework in which art and design function within structured socio-economic ecosystems. Cross-sector collaboration enhances socio-ecological resilience and sustainable development (Dentoni et al., 2020). Through this integration, art-based initiatives move beyond symbolic representation and become embedded economic systems.

3 CONCEPTUAL FRAMEWORK

Within the proposed model, art and cultural tourism operate as design-mediated catalysts transforming intangible heritage into creative enterprises. Through curation, branding, experiential design, and digital dissemination, traditional practices are integrated into structured market systems.

Social engagement enhances authenticity and strengthens institutional legitimacy, contributing indirectly to financial sustainability (Zhang et al., 2020). Economic growth emerges from diversified creative income streams such as craft sales, cultural workshops, and experiential tourism (Liu et al., 2023).

Environmental sustainability reinforces long-term viability by preserving cultural landscapes and heritage materials (Salman et al., 2021). Operational capacity determines scalability and resilience through governance and partnership coordination (Dentoni et al., 2020).

Technology integration extends cultural production into digital domains. Research within Malaysian design contexts demonstrates that 3D design integration significantly enhances digital tourism engagement (Noor Hishamuddin et al., 2024). Digital platforms, e-commerce systems, and social media branding expand audience reach and income diversification (Zhou & Sotiriadis, 2021).

Collectively, these dimensions shape sustainable income generation within senior citizen centres.

4 HYPOTHESES DEVELOPMENT

Based on the integrated socio-ecological and sustainability framework, social engagement in art and design initiatives is expected to positively influence sustainable income generation by reinforcing authenticity, strengthening social capital, and enhancing community participation. When seniors actively contribute to cultural production and heritage-based design practices, the resulting collective ownership and identity formation are anticipated to increase institutional credibility and visitor engagement, thereby indirectly supporting financial sustainability. In parallel, economic growth driven by creative cultural production is anticipated to enhance financial resilience through diversified income streams derived from craft enterprises, experiential workshops, and cultural tourism programming.

In addition, environmentally sustainable design practices are projected to strengthen long-term institutional viability by preserving heritage resources and reinforcing the authenticity of cultural offerings. Operational effectiveness is hypothesised to amplify income outcomes through coordinated management structures, strategic partnerships, and efficient resource utilisation. Finally, technology integration is expected to expand market access and improve financial sustainability by enabling digital promotion, online commercialisation, and innovative engagement platforms. Collectively, these hypotheses position art and design not as peripheral cultural activities but as structured drivers of economic resilience within senior citizen centres.

5 CONTRIBUTION TO ART AND DESIGN SCHOLARSHIP

This study advances Art and Design scholarship by reframing senior citizen centres as creative ecosystems rather than passive welfare institutions. It builds upon Malaysian design research demonstrating the economic and communicative power of digital illustration and cultural visualisation (Mat Nashir@Mohd Nasir & Daimin, 2022) and extends visual-cultural studies into socio-economic engagement systems, particularly examining how digital media facilitates cultural consumption and interaction (Yusuf et al., 2023). By integrating sustainability and socio-ecological theory, the framework positions art as economic infrastructure embedded within community development processes. In doing so, it shifts the disciplinary focus of Art and Design from object-based production toward systems-oriented design thinking, aligning with recent conceptual framework that connect art and cultural tourism initiatives with sustainable income generation for senior citizen centres (Mohammad Mazani et al., 2025).

The study significantly contributes to the field by bridging cultural aesthetics with structured economic viability. While previous research has demonstrated how visual communication and traditional aesthetic elements shape cultural identity and audience perception (Mat Nashir@Mohd Nasir & Daimin, 2022; Utoyo, 2023), such works primarily emphasise communicative and symbolic dimensions. The present framework extends these insights by demonstrating how heritage-based design practices can be strategically organised into sustainable creative economies. This repositioning connects visual culture, craft traditions, and experiential design directly to long-term income generation and institutional resilience.

Furthermore, the research expands design for social innovation discourse by foregrounding aging communities as sites of creative production. Design scholarship frequently centres on youth-driven entrepreneurship, digital innovation, or urban regeneration, yet rarely conceptualises older populations as active cultural producers. By recognising seniors as custodians of intangible heritage and contributors to structured creative enterprises, the study challenges age-based assumptions within design research and broadens the inclusivity of innovation narratives within the discipline.

Finally, the integration of the Triple Bottom Line and the Socio-Ecological Model introduce a systemic evaluative structure into Art and Design research. By embedding creative practice within sustainability metrics and multi-level socio-economic systems, the framework offers a transferable conceptual model for assessing and implementing community-based design interventions. This systemic approach strengthens the theoretical rigor of design scholarship and reinforces the role of art and design as transformative forces in cultural sustainability and economic development.

6 CONCLUSION

This research proposes a design-led socio-ecological framework that transforms senior citizen centres into hubs of creative economic activity. By aligning sustainability principles with multi-level institutional dynamics, the model demonstrates how art and design can generate financial resilience while preserving cultural heritage and strengthening social inclusion.

As aging populations continue to expand, design-driven cultural sustainability models offer scalable strategies for integrating creativity with economic development. Future empirical validation will further strengthen the framework's applicability across diverse contexts.

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AUTHOR CONTRIBUTIONS

All authors contributed equally to the development and writing of this manuscript.

CONFLICT OF INTEREST

The authors declare no potential conflict of interest with respect to the research, authorship, and/or publication of this article.

REFERENCES

- Bocken, N. M. P., Short, S. W., Rana, P., & Evans, S. (2014). A literature and practice review to develop sustainable business model archetypes. *Journal of Cleaner Production*, 65, 42–56. <https://doi.org/10.1016/j.jclepro.2013.11.039>
- Dentoni, D., Pinkse, J., & Lubberink, R. (2020). Linking Sustainable Business Models to Socio-Ecological Resilience Through Cross-Sector Partnerships: A Complex Adaptive Systems View. *Business & Society*, 60(5), 1216–1252. <https://doi.org/10.1177/0007650320935015>
- Elkington, J. (1997). *Cannibals with Forks: The Triple Bottom Line of 21st Century Business* Capstone. Capstone.
- Farhan, N., Noridin, H., & Anwar, S. (2025). Colour Communication: Evolution Of Colour Aesthetics In Malaysian Animated Characters. *E-Bangi Journal of Social Science and Humanities*, 22(4). <https://doi.org/10.17576/ebangi.2025.2204.71>
- Liu, Y.-L., Chiang, J.-T., & Ko, P.-F. (2023). The benefits of tourism for rural community development. *Humanities and Social Sciences Communications*, 10(1), 137. <https://doi.org/10.1057/s41599-023-01610-4>
- Mat Nashir@Mohd Nasir, R., & Daimin, G. (2022). Digital Illustration as Visual Communication to Promote Kelantan Cultural Heritage. *Ideology Journal*, 7(2), 68–75. <https://doi.org/10.24191/idealogy.v7i2.355>
- McLeroy, K. R., Bibeau, D., Steckler, A., & Glanz, K. (1988). An Ecological Perspective on Health Promotion Programs. *Health Education Quarterly*, 15(4), 351–377. <https://doi.org/10.1177/109019818801500401>
- Mohammad Mazani, N. Z. A., Abdul Aziz, M. N., Ibrahim, N. H., Ramlie, M. K., & Dzulkifly, N. A. (2025). *Art and Cultural Tourism for Sustainable Income: A Conceptual Framework for Senior Citizen Centres in Malaysia*. 10(2), 560–568. <https://doi.org/10.24191/idealogy.v10i2.845>
- Noor Hishamuddin, N. K., Hairul Anuar, I. M., Che Din, S., & Mohd Lazim, N. A. (2024). An Integration of 3D Design in Malaysia Digital Tourism. *Ideology Journal*, 9(1). <https://doi.org/10.24191/idealogy.v9i1.492>
- Salman, A., Jaafar, M., Mohamad, D., & Malik, S. (2021). Ecotourism development in Penang Hill: a multi-stakeholder perspective towards achieving environmental sustainability. *Environmental Science and Pollution Research*, 28(31), 42945–42958. <https://doi.org/10.1007/s11356-021-13609-y>
- Yusuf, S. N., Mohamed Salim, N. A., Shawalludin, S., Abd Jamil, A., Sayuti, N., 'Ayn, Shahizan Ali, M. N., & Loh Yoke Ling. (2023). MALAY PROVERBS VISUAL CULTURE: TRENDS AND PATTERNS THROUGH BIBLIOMETRIC ANALYSIS. *Jurnal Gendang Alam (GA)*, 13(2). <https://doi.org/10.51200/ga.v13i2.4740>
- Utoyo, A. W. (2023). THE ROLE OF VISUAL COMMUNICATION AS TOURISM IDENTITY. *Jurnal Muara Ilmu Sosial, Humaniora, Dan Seni*, 6(3), 787–793. <https://doi.org/10.24912/jmishumsen.v6i3.15238.2022>
- Wenhui Cheng. (2009). Analysis on nationality of Japanese Anime color. *2009 IEEE 10th International Conference on Computer-Aided Industrial Design & Conceptual Design*, 1926–1930. <https://doi.org/10.1109/CAIDCD.2009.5375291>

- Wondirad, A., Tolkach, D., & King, B. (2020). Stakeholder collaboration as a major factor for sustainable ecotourism development in developing countries. *Tourism Management*, 78, 104024. <https://doi.org/10.1016/j.tourman.2019.104024>
- Zhang, Y., Xiong, Y., Lee, T. J., Ye, M., & Nunkoo, R. (2020). Sociocultural Sustainability and the Formation of Social Capital from Community-based Tourism. *Journal of Travel Research*, 60(3), 656–669. <https://doi.org/10.1177/0047287520933673>
- Zhou, C., & Sotiriadis, M. (2021). Exploring and Evaluating the Impact of ICTs on Culture and Tourism Industries' Convergence: Evidence from China. *Sustainability*, 13(21), 11769. <https://doi.org/10.3390/su132111769>