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Embracing Construction Revolution 4.0 (CR4.0): Transforming Malaysia's Built Environment

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WELCOME SPEECH FROM THE CHAIRMAN

RISM 17th International Surveying Conference for Undergraduates (ISCU 2025)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ السَّلَام

عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ

Greetings to all,

It is with great pleasure that I welcome you to the 17th RISM International Surveying Conference for Undergraduates (ISCU 2025), themed “*Embracing Construction Revolution 4.0: Transforming Malaysia’s Built Environment.*” On behalf of the Royal Institution of Surveyors Malaysia (RISM), I also wish to express our sincere appreciation to Universiti Teknologi MARA (UiTM), Perak Campus, for graciously hosting this significant event.

As we navigate the era of the Fourth Industrial Revolution (IR4.0)—or in our context, Construction Revolution 4.0 (CR4.0)—we are witnessing transformative advancements across the global construction sector. Technologies such as Building Information Modelling (BIM), the Internet of Things (IoT), artificial intelligence (AI), robotics, big data analytics, and cloud computing are redefining the way we build, manage, and interact with our built environment. For Malaysia, embracing CR4.0 is a strategic imperative to achieve our socio-economic and environmental goals.

This conference serves as a vital platform to unite surveying undergraduates from various disciplines, fostering critical dialogue on industry challenges, enhancing professional networking, and preparing a new generation of talent for the rapidly evolving construction landscape. It is also an opportunity for employers to engage with and inspire our future professionals.

I would like to extend my heartfelt thanks to all industry speakers, paper presenters, judges, and participants for their time, contributions, and support in making ISCU 2025 a success. I also commend the organising committee for curating a meaningful and dynamic conference experience.

May the knowledge gained, connections formed, and ideas exchanged during this event inspire all participants to lead and innovate in their future endeavours.

Wishing everyone a productive and memorable conference.

Prof. Ts Sr Dr. Adi Irfan Bin Che Ani'

Chairman, Universities' Partnering Committee

RISM Session 2024/2025

May 2025

WELCOME SPEECH FROM CO-CHAIRMAN

RISM 17th International Surveying Conference for Undergraduates (ISCU 2025)

Bismillahirrahmanirrahim.

السلام عليكم ورحمة الله وبركاته and greetings to all.

It is my great pleasure to welcome everyone to the 17th International Surveyor Conference for Undergraduates (ISCU 2025), proudly hosted by Universiti Teknologi MARA (UiTM) Perak Branch in collaboration with the Royal Institution of Surveyors Malaysia (RISM). This event is a meaningful platform for students in the built environment to share ideas, showcase innovations, and build professional networks. We are honoured by your presence and enthusiastic participation, with 135 accepted papers and 78 poster presentations this year.

UiTM Perak, home to the College of Built Environment, has long been a hub for academic excellence in architecture, planning, and surveying. Our commitment remains strong in nurturing competent graduates who meet industry demands and contribute to nation-building.

While you're here, we invite you to experience the heritage and culture of Perak Tengah from the architectural richness of Rumah Kutai to the historical towns of Pasir Salak, Bota, and Kampung Gajah.

To all presenters and winners, congratulations on your achievements. Let your work today be a catalyst for future success and academic growth. We hope this conference will inspire you to explore new ideas, foster collaboration, and make lasting memories.

My deepest thanks to the Royal Institution of Surveyors Malaysia (RISM) and the organising committee for making this event a success.

We hope your experience here will be rewarding and unforgettable.

Thank you. Selamat datang dan selamat berjaya.

Associates Professor Dr. Nur Hisham Ibrahim, *PMP*

Co-Chairman, Universities' Partnering Committee

RISM Session 2024/2025

May 2025

WELCOME SPEECH FROM THE PROJECT DIRECTOR

RISM 17th International Surveying Conference for Undergraduates 2025

Alhamdulillah, all praise to Allah S.W.T. for His guidance and blessings in making the RISM 17th International Surveying Conference for Undergraduates (ISCU) 2025 a reality.

It is with great honour and gratitude that I welcome all participants, guests, academicians, and industry professionals to this prestigious event, proudly organized under the Royal Institution of Surveyors Malaysia (RISM). This 17th edition of ISCU stands as a proud testament to our collective dedication toward academic excellence, professional collaboration, and youth empowerment in the field of surveying.

I extend my heartfelt appreciation to RISM for its unwavering support, to the hardworking ISCU 2025 Organising Committee, and to all 16 partnering universities across Malaysia for their commitment and contributions. Your efforts have shaped this conference into a dynamic platform for knowledge exchange, innovation, and professional growth.

To the academicians and practitioners present, your insights are invaluable in bridging the gap between academic theory and real-world practice. To our undergraduate participants, your passion, curiosity, and commitment are the very foundation of our future. May this conference not only deepen your academic journey but also ignite a spirit of leadership, integrity, and sustainable thinking.

Let this gathering serve as more than an academic milestone. May it foster lifelong networks, inspire transformative ideas, and chart new directions in our shared professional journey.

Wishing everyone a rewarding and inspiring conference experience.

Sr Dr. Nurul Fadzila Zahari

Project Director

RISM 17th ISCU 2025

BRIDGING GENERATIONS: FRAMEWORK FOR YOUTH ENGAGEMENT AND EDUCATION FOR SUSTAINABLE HERITAGE CONSERVATION IN KUALA LUMPUR'S BUILT ENVIRONMENT

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ABSTRACT

The adaptive reuse and conservation of heritage buildings are essential for fostering sustainable urban environments. In Kuala Lumpur, youth engagement and education play a pivotal role in integrating sustainability practices into the built environment. This paper investigates the perspectives of youth regarding the sustainable conservation of heritage buildings, with a focus on the role of Construction Revolution 4.0 (CR 4.0). The study aims to evaluate youth awareness, involvement, and barriers to contributing to heritage conservation, emphasizing sustainable practices within Kuala Lumpur's urban context. Using systematic review, this research identifies how technological advancements, and educational programs can empower youth to actively participate in heritage conservation. The conceptual framework is built around three key themes: level of engagement, motivations and barriers affecting their participation in built environment sustainability. Preliminary findings highlight that youth show a strong interest in sustainability but face significant challenges, including limited access to digital resources, inadequate educational programs, and low awareness of the importance of heritage conservation. The research concludes that fostering greater youth participation requires targeted educational initiatives, enhanced access to digital technologies, and increased awareness of the value of heritage in urban sustainability. The study provides actionable recommendations for policymakers, educators, and heritage conservation bodies to better engage youth in the conservation process, aiming to cultivate a generation that embraces both heritage preservation and sustainability in urban development.

Keywords: Built Environment, Heritage Conservation, Sustainability,

I. INTRODUCTION

Sustainable urban development underscores the importance of heritage conservation and adaptive reuse in shaping resilient cities (Ying & Bakar, 2024). Beyond cultural significance, heritage buildings define urban identity, making their preservation essential for sustainable planning (Saleh et al., 2022). In Kuala Lumpur, rapid modernization coexists with a rich architectural legacy, creating both opportunities and challenges for conservation (Saleh et al., 2022). Sustaining these structures requires integrating conservation with technological advancements and policy support (Zen et al., 2023).

Youth play a vital role in preserving Kuala Lumpur's heritage. Their digital proficiency and sustainability mindset make them valuable contributors (UNESCO, 2023). However, meaningful engagement requires structured education, digital tools, and inclusive policies (Abdullah et al., 2023). Embedding conservation into curricula, offering hands-on training, and fostering community initiatives can strengthen youth participation (Abdullah et al., 2023).

This study explores youth perspectives on heritage conservation, focusing on engagement, motivations, and barriers. A key aspect is the role of Construction Revolution 4.0 (CR 4.0) technologies—such as BIM, 3D scanning, and digital documentation—in modernizing conservation (Abdullah et al., 2023). These innovations enhance efficiency and accessibility, aligning with youth interests (Hamzah et al., 2022). However, awareness and willingness to integrate these tools remain a concern.

Despite interest in sustainability, youth face barriers such as limited heritage education, financial constraints, and cultural perceptions discouraging conservation careers. Weak policy support and lack of youth representation further hinder participation. Without structured pathways, such as mentorships, government initiatives, and community projects—many remain passive rather than active contributors (Abdul Aziz et al., 2023). This study proposes a multifaceted framework aligning education, policy, technology, and community engagement to foster youth participation. By bridging traditional conservation with modern technology, Kuala Lumpur can cultivate a new generation of youth-driven, technology-integrated conservation efforts, ensuring a sustainable urban heritage.

II. PROBLEM STATEMENT

Despite the cultural and urban significance of heritage conservation, youth engagement in Kuala Lumpur remains low as reflected in both national and regional assessments. While young individuals possess the potential to drive sustainability initiatives, their level of participation is hindered by limited awareness, inadequate educational programs, and the absence of structured opportunities (Abdul Aziz et al., 2023). Without targeted initiatives to foster appreciation and involvement, there is a risk that future generations will disregard the importance of heritage conservation, leading to the continued neglect of the city's architectural legacy (Radzuan, A. W., 2024).

A key barrier to engagement lies in the education system's insufficient focus on adaptive reuse, cultural preservation, and digital conservation methods. Sustainability in heritage conservation requires knowledge transfer, skill development, and exposure to modern techniques (Abdul Aziz et al., 2023). However, many educational programs fail to integrate heritage conservation with contemporary digital tools, leaving youth unprepared to engage in conservation efforts—particularly those leveraging Construction Revolution 4.0 (CR 4.0) technologies such as Building Information Modeling (BIM), 3D scanning, and digital documentation (Zhang, Y et al., 2024).

Technological advancements have the potential to revolutionize heritage conservation and attract youth participation, yet financial constraints, institutional barriers, and lack of policy support limit access to these tools (Zhang, Y et al., 2024). The technological gap between available innovations and youth accessibility restricts CR 4.0's role in sustainable heritage preservation and prevents young individuals from actively contributing to Kuala Lumpur's urban and cultural future. Without strategic interventions that address these educational, technological, social, and policy-related barriers, youth engagement in heritage conservation will remain minimal, threatening the sustainability of the city's built heritage.

III. DATA AND METHODS

This study examines youth engagement in sustainable heritage conservation within Kuala Lumpur, focusing on Malaysian youth aged 15 to 40. It employs a systematic review of academic literature from databases such as Google Scholar, Web of Science, and Scopus, referencing journal articles, policy reports, and studies. The research explores youth participation, motivations, and barriers, emphasizing Construction Revolution 4.0 (CR 4.0) technologies.

The analysis is structured around three themes: engagement levels, motivations, and barriers, assessed through educational programs, technology, cultural norms, and policies.

1. *Level of Engagement*

Engagement levels are examined through case studies of active, passive, and non-participatory youth. Active participants engage in volunteer programs, research, and advocacy, while passive participants show interest but lack direct involvement. Non-participatory youth remain disengaged due to limited awareness or access. Platforms such as educational institutions, community-led initiatives, and digital conservation programs utilizing CR 4.0 technologies are identified as key facilitators of youth engagement.

2. Motivations for Youth Involvement

Motivation includes cultural identity, career aspirations, education, and digital tools. Youth with strong cultural ties are more inclined to participate, while career-oriented individuals see opportunities in conservation. Educational programs enhance awareness and skills, but accessibility remains an issue. Technologies such as

Building Information Modeling (BIM), 3D scanning, and digital documentation improve engagement by making conservation more interactive and efficient.

3. *Barriers to Participation*

Barriers include limited awareness, weak institutional support, financial and technological constraints, and inadequate policies. The absence of heritage education reduces exposure, while insufficient funding and structured programs limit participation. High costs and restricted access to conservation technologies hinder digital engagement. Weak policies and minimal youth representation in decision-making further discourage involvement. Social and economic priorities often overshadow heritage conservation, reinforcing the perception that it is outdated or irrelevant.

This study synthesizes research and policies to develop a conceptual framework for youth engagement, integrating education, digital innovation, and policy recommendations. The findings aim to support a more inclusive, sustainable approach to youth-driven heritage conservation in Kuala Lumpur and beyond.

IV. OBJECTIVES

Aligned with the growing emphasis on sustainable urban development and the critical role of youth in heritage conservation, this study aims to:

1. Assess the level of youth engagement in heritage conservation initiatives within Kuala Lumpur by examining their awareness, participation trends, and the barriers that limit their involvement. This includes evaluating the influence of educational programs, cultural and social norms, and policy frameworks on youth participation.
2. Explore the role of technological advancements, particularly Construction Revolution 4.0 (CR 4.0) technologies, in enhancing youth engagement in sustainable heritage conservation. This involves identifying opportunities for digital integration, such as Building Information Modeling (BIM), 3D scanning, and digital documentation, and assessing how access to these tools impacts participation.
3. Develop a conceptual framework that integrates sustainability principles, educational initiatives, technological advancements, and policy recommendations to foster inclusive and long-term youth participation in Kuala Lumpur's heritage conservation efforts.

V. YOUTH ENGAGEMENT AND EDUCATION FOR SUSTAINABLE HERITAGE CONSERVATION IN KUALA LUMPUR

Creating a connection between different age groups, particularly the youth and older generations, in the shared responsibility of preserving cultural heritage. This intergenerational exchange helps transmit traditional knowledge, cultural values, and conservation skills to younger generations while enabling the youth to bring fresh perspectives and innovative solutions to heritage conservation. Bridging generations encourages mutual respect and collaboration, where the older generation's expertise in conservation practices complements the younger generation's enthusiasm for new technologies and sustainable approaches to preserving heritage sites (Saleh et al., 2022). Programs like Think City's Penang and Kuala Lumpur initiatives have introduced hands-on urban heritage experiences for youth, fostering intergenerational knowledge exchange and revitalizing public interest (Jusoh et al., 2024).

Youth engagement in sustainable heritage focuses on actively involving young people in the conservation, preservation, and management of cultural and natural heritage. This involves not only educating youth about the value of heritage but also empowering them with the tools, resources, and platforms to actively participate in its conservation. Youth engagement in heritage conservation can take many forms, such as educational programs, volunteer initiatives, or leadership roles within conservation projects. By fostering youth participation, communities can cultivate a new generation of heritage stewards who are equipped with the knowledge, skills, and values necessary to integrate sustainability principles into heritage management (Abdullah et al., 2023).

Education for sustainable heritage emphasizes the role of formal and informal learning in empowering youth to understand and engage with heritage conservation in a sustainable manner. This concept integrates environmental, social, and cultural dimensions of sustainability into the teaching of heritage conservation, ensuring that young people develop a holistic understanding of how preserving heritage can contribute to sustainable urban development. Educational frameworks that incorporate modern technologies, such as Construction revolution 4.0 (CR 4.0), play a crucial role in making heritage conservation practices more accessible, efficient, and engaging youth (Zen at al., 2023). By linking heritage education with sustainable development goals (SDGs), such programs can inspire youth to become advocates for sustainable practices in their communities, further enhancing the future of heritage conservation (Hamzah at al., 2022).

VI. FACTORS OF INFLUENCE ON YOUTH ENGAGEMENT AND EDUCATION FOR SUSTAINABLE HERITAGE CONSERVATION

Youth engagement in heritage conservation is influenced by education, technology, cultural norms, and government policies. Understanding these factors is essential for fostering participation and overcoming barriers.

1. Educational Programs

Education drives youth awareness and participation. Schools, universities, and informal learning initiatives equip youth with knowledge, skills, and opportunities for conservation (Abdullah et al., 2023). Heritage-focused curricula, experiential learning, and community programs encourage involvement. However, gaps in heritage education, particularly in digital conservation, limit participation (Saleh et al., 2022). Strengthening outreach, vocational training, and interdisciplinary learning can enhance youth leadership and commitment (Hamzah et al., 2022). At the regional level, UNESCO (2023) highlights the importance of integrating heritage education into formal curricula in the Asia-Pacific region, noting successful pilot programs that engage youth in sustainable development and cultural identity preservation.

2. Technological Advancements

Construction Revolution 4.0 (CR 4.0) technologies, including Building Information Modeling (BIM), 3D scanning, virtual reality (VR), and artificial intelligence (AI), have transformed conservation (Zen at al., 2023). These tools improve documentation, restoration, and preservation, making efforts more efficient. Engaging youth in digital conservation increases participation (Jusoh et al., 2024). However, limited access, high costs, and lack of training hinder utilization (Selim & Farhan, 2024). Expanding digital literacy, accessibility, and research opportunities can bridge this gap.

3. Cultural and Social Norms

Cultural values, family influences, and societal attitudes shape youth participation (Saleh et al., 2022). In culturally engaged communities, youth are more involved in conservation. However, in urban areas like Kuala Lumpur, economic priorities often overshadow heritage preservation (Abdullah et al., 2023). Social media and digital platforms can reshape perceptions, promote cultural appreciation, and drive community conservation (Zen at al., 2023). Encouraging youth-led storytelling and advocacy can sustain interest (Wan Shamsuddin et al., 2024).

4. Policy and Government Initiatives

Government policies are key to youth engagement (Selim & Farhan, 2024). Funding, incentives, training, and youth inclusion in decision-making foster participation (Wan Shamsuddin et al., 2024). However, weak enforcement, bureaucracy, and lack of youth representation discourage involvement (Abdullah et al., 2023). Strengthening policies, integrating conservation into urban sustainability, and fostering partnerships between government education, and youth organizations can enhance long-term efforts.

VII. KEY THEMES ON YOUTH ENGAGEMENT AND EDUCATION FOR SUSTAINABLE HERITAGE CONSERVATION

Youth engagement in heritage conservation varies by awareness, motivations, and barriers. Understanding these dynamics fosters sustainable participation in preserving Kuala Lumpur's built heritage (Selim & Farhan, 2024).

1. Levels of Engagement

Youth participation ranges from passive awareness to active involvement (Zen et al., 2023). While some recognize conservation's importance, many lack opportunities or motivation. Others engage through volunteering, research, community projects, and digital efforts (Abdullah et al., 2023). University programs, social media campaigns, and youth-led advocacy help bridge awareness and action (Wan Shamsuddin et al., 2024). Making conservation interactive, tech-driven, and career-oriented can boost participation (Abdul Aziz et al., 2023).

2. Motivations for Youth Participation

Youth interest stems from personal values, education, career goals, environmental awareness, and technology (Ying & Bakar, 2024). Those who grasp heritage's cultural, social, and economic value are more engaged (Selim & Farhan, 2024). Construction Revolution 4.0 (CR 4.0) technologies—BIM, 3D scanning, VR, AI—offer innovative ways to interact with conservation (Zen et al., 2023). Scholarships, internships, competitions, and mentorships provide incentives, encouraging careers in heritage conservation (Abdullah et al., 2023).

3. Barriers to Youth Engagement

Key challenges include limited heritage education, financial constraints, and weak policy support. The absence of conservation in curricula reduces awareness (Abdullah et al., 2020). While CR 4.0 enhances digital conservation, costs and training gaps limit access (Zhang, Y et al., 2024). Youth-led initiatives often lack funding and institutional backing, hindering sustainability (Zen et al., 2023). Policy frameworks frequently exclude youth perspectives, while bureaucratic hurdles restrict influence (Selim & Farhan, 2024). Addressing these barriers requires education reforms, financial support, and inclusive policies to empower youth participation.

VIII. CONCEPTUAL FRAMEWORK

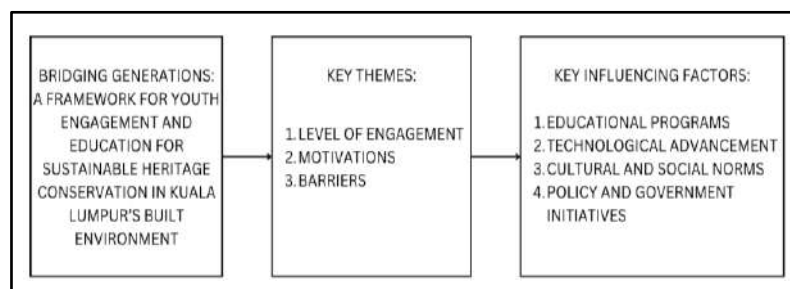


Figure 1.0 A Proposed Conceptual Framework for Enhancing Youth Engagement and Education in Sustainable Heritage Conservation

IX. DISCUSSIONS

Four key factors influence residents' satisfaction: Educational Programs, Technological Advancement, Cultural and Social Norms, and Policy and Government. A conceptual framework for youth engagement in sustainable heritage conservation in Kuala Lumpur was developed to guide future research. To enhance clarity, a visual representation of this framework could further illustrate these components and their interconnections.

Youth participation ranges from passive awareness to active involvement but faces barriers such as educational gaps, technological constraints, cultural attitudes, and policy limitations. While many recognize heritage's importance, limited exposure, career opportunities, and structured platforms reduce engagement (Selim & Farhan,

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