

<p>Session 1A: <b>Carbon Assessment in the Built Environment</b></p> <p>Session Chair: <b>A/Prof. Sepani Senaratne</b></p> <p>Session Coordinator: <b>Ch. QS. Dilshan Akalanka</b></p>	<p><b>ONLINE</b></p> <p>Session 1B: <b>Circular Economy Integration in Construction</b></p> <p>Session Chair: <b>Dr. Gayani Karunasena</b></p> <p>Session Coordinator: <b>Mr. Lakshitha Bandaranayake</b></p>	<p>Session 1C: <b>Enabling Digital Transformation in Sri Lankan Construction</b></p> <p>Session Chair: <b>Ch. QS Indunil Senevirathne</b></p> <p>Session Coordinator: <b>Ms. Dasuni Kodithuwakku</b></p>	<p>Session 1D: <b>Technology-Driven Innovations for Safety and Productivity in Construction</b></p> <p>Session Chair: <b>Prof. Nayanthara De Silva</b></p> <p>Session Coordinator: <b>Ms. Piumi Tennakoon</b></p>	<p>Session 1E: <b>Lean Integration for Sustainable Construction</b></p> <p>Session Chair: <b>Dr. Mohan Siriwardena</b></p> <p>Session Coordinator: <b>Ms. Dewmini Wijerathne</b></p>
<p><b>S17045:</b> Global Research Trends in Carbon Capture and Utilization Technologies for Cement Production: A Bibliometric Analysis <i>H.H.A.P Hemantha, R.A.B.U.N. Perera, D.N.L.S. Uduwage</i></p> <p><b>S17052:</b> Embodied Carbon Variability in Indian High-Rise Residential Buildings: A Case-Based Assessment <i>K.G. Akshatha, Sivakumar Palaniappan, M.K. Pradeep Kumar Rao</i></p> <p><b>S17062:</b> Carbon Financing in Construction: Review of Benefits and Barriers <i>D.S.I. Wijayawardena, K.A.T.O. Ranadewa</i></p> <p><b>S17074:</b> Learning from Nature: Biomimicry-Inspired Building Design for Carbon Reduction in Urban Living <i>R.V.A.D. Rahubadda, Udayangani Kulatunga, A.P. Rathnasinghe</i></p> <p><b>S17075:</b> Project Data Responsibilities for Carbon Assessment in Sri Lankan Construction Industry <i>R.M.T.D. Rajapaksha, S.D. Gallage</i></p> <p><b>T17125:</b> The Applicability of Carbon Emission Estimation with BIM Environment: Sri Lankan Context <i>D.A.M.V. Perera, C. Allis, B.K.C. Perera, A. Lokuge</i></p>	<p><b>S17011:</b> Buildings Designed for Systemic Circularity: A Comprehensive Review of Methodological Taxonomies <i>Prince Antwi-Afari, Daniel Oteng, S. Thomas Ng, Frank Ato Ghansah, Zhikang Bao</i></p> <p><b>S17129:</b> Exploring Circular Building Material: Transforming Industrial and Agricultural Waste into 3D Printable Construction Material <i>T. Takale, V. Anagal</i></p> <p><b>S17130:</b> Mapping Circularity Parameters: A Literature Review of Policy Planning in the Built Environment <i>R. Deshmukh, A. Garud, V. Anagal, S. Karve, M. Siriwardena, A. Manewa</i></p> <p><b>S17131:</b> Investigating Business Models for Circular Economy Integration in Construction Sector <i>S. Shah, A. Garud, V. Anagal, S. Karve, M. Siriwardena, A. Manewa</i></p> <p><b>S17133:</b> Blockchain Enabled Circular Economy Integration in the Construction Industry: A Systematic Literature Review and Bibliometric Analysis <i>S. Deshmukh, S. Karve</i></p> <p><b>S17134:</b> From Policy Presence to Enforceability: Evaluating Water Circularity in the Indian Construction Frameworks <i>N. Sakhardande, S. Karve, V. Anagal, A. Garud, A. Manewa, M. Siriwardena</i></p>	<p><b>S17048:</b> Addressing Data Management Challenges in Sri Lankan Construction Industry through Blockchain Integration <i>W.M.N.D. Wijesundara, M. Thayaparan, M.D.D. Costa</i></p> <p><b>S17068:</b> Exploring the Potential of Blockchain Technology Adoption in the Sri Lankan Construction Industry: Opportunities and Barriers to Implementation <i>D.W.J.W. Bandara, P.L.I. Wimalaratne, Udayangani Kulathunga, A. Wijayasiri</i></p> <p><b>S17092:</b> Integrating BIM into Business Models of Consultancy Firms: Barriers and Enablers <i>R.L. Samaraweera, D.N. Abeynayake, S. Sivanraj</i></p> <p><b>S17105:</b> Barriers to Adopting Digital Twin Technology for Contract Administration in Sri Lankan Construction Sector <i>M.K.L.I.C. Fernando, V. Lingasabeshan, P.L.I. Wimalaratne</i></p> <p><b>S17109:</b> Applicability of Artificial Intelligence Models for Selection of ADR Methods to the Settlement of Contractor-Related Variation Disputes in Building Construction Projects in Sri Lanka <i>Y.M.W.H.M.R.R.L.J.B. Kiridana, M.D.T.E. Abenayake</i></p> <p><b>S17115:</b> Barriers and Solutions to Adopting Digital Twin in Sri Lankan Construction <i>H.T.T.A. Indunil, R.P.H.S. Bandara, P.H.Y. Buddhini</i></p>	<p><b>S17019:</b> Artificial Intelligence-Driven Systems for Enhancing Worker Safety Monitoring in Construction Environments: A Comprehensive Review <i>J.A.U.S. Jayakody, P.R.H.N.G. Thilakarathna</i></p> <p><b>S17033:</b> Detection of Mobile Phone Use by Labourers on Construction Sites using YOLOv11-s <i>D.N.L.S. Uduwage, S. Sivanraj, K.G.A.S. Waidyasekara, R.K. Shiwakoti, M.Tripathi</i></p> <p><b>S17034:</b> Comparison of Yolo Algorithms for PPE Compliance Monitoring at Construction Sites <i>S. Sivanraj, D.N.L.S. Uduwage, M. Tripathi</i></p> <p><b>S17054:</b> Examining Health and Safety Management among Foreign Contractors in Sri Lanka: Gaps, Barriers, and Improvement Strategies <i>B.G. Wijayarathna, C. Allis, Y.K. Delpachitra</i></p> <p><b>S17110:</b> Enhancing Labour Productivity in the Sri Lankan Construction Industry through Computer Vision <i>E.M.K.K. Ekanayaka, B.A.I. Eranga</i></p> <p><b>T17122:</b> IOT-Based Real-Time Monitoring Systems to Enhance Workers' Safety in High-Rise Construction Projects in Sri Lanka <i>S.S. Jayasundara, B.A.I. Eranga</i></p>	<p><b>S17032:</b> BIM Implementation by Integrating Lean Construction and IDT (LCIDT) <i>Rhijul Sood, Nandini Sharma, Boeing Laishram</i></p> <p><b>S17056:</b> Client Satisfaction Model for Lean Implemented Construction SMEs: A Review <i>K.G.P.N. Munasingha, K.A.T.O. Ranadewa, M.R.D.P. Wijerathna</i></p> <p><b>S17063:</b> Lean Thinking for Green Building: Barriers for Lean Integrated Sustainable Construction <i>S.J.L. Madhushani, K.A.T.O. Ranadewa, L.D.I.P. Seneviratne</i></p> <p><b>S17100:</b> Lean Integrated Business Model for Construction - A Systematic Review on Current Practices and Future Directions <i>P.W.A.H. Lawanga, Y.G. Sandanayake, K.A.T.O. Ranadewa</i></p> <p><b>S17104:</b> Lean Integrated Circular Economy in the Sri Lankan Construction Industry: A Qualitative Delphi Study <i>Hariis Vijayakumar, K.A.T.O. Ranadewa, Panchali Weerakoon, Agana Parameswaran, J.K.D.D.T. Jayanetti</i></p> <p><b>S17107:</b> Integration of Lean Kaizen Model to Enhance Material Efficiency in Construction Projects: A Literature Review <i>Sathursiya Selasteen, B.A.K.S. Perera, Anuki S. Kavirathna</i></p>
<p>Session 2A: <b>Advancing Circular Economy Practices and Policy in the Built Environment</b></p> <p>Session Chair: <b>Dr. Dilani Abeynayake</b></p> <p>Session Coordinator: <b>Ms. Nimaya Perera</b></p>	<p><b>ONLINE</b></p> <p>Session 2B: <b>Digital Transformation and Technology Adoption in Construction</b></p> <p>Session Chair: <b>Dr. Navodana Rodrigo</b></p> <p>Session Coordinator: <b>Mr. Lakshitha Bandaranayake</b></p>	<p>Session 2C: <b>Sustainable Construction and Circular Economy Strategies</b></p> <p>Session Chair: <b>Prof. Lalith De Silva</b></p> <p>Session Coordinator: <b>Ms. Anuki Kavirathna</b></p>	<p>Session 2D: <b>Human-Centered and Technological Approaches to Urban Disaster Resilience</b></p> <p>Session Chair: <b>Dr. Sachie Gunathilake</b></p> <p>Session Coordinator: <b>Mr. Yasith Sandaruwan</b></p>	<p>Session 2E: <b>Digital Innovations and Strategies for Energy Management in Built Environments</b></p> <p>Session Chair: <b>Dr. Chandanie Hediwattage</b></p> <p>Session Coordinator: <b>Ms. Nawanjana Manapperuma</b></p>
<p><b>S17025:</b> Private Sector Role as a Key Stakeholder Towards the Circular Economy in the Construction Industry in Sri Lanka <i>N.V.J. Chathurya, K.A.N. Gunarathna, Kavini Guruge</i></p> <p><b>S17072:</b> Moving from Linear to Circular Apparel Economy in Sri Lanka: PRISMA-Based Analysis of Circular Economy and Supply Chain Interactions <i>C.H. Kumara, Harshini Mallawaarachchi, J.A.D.K.S. Jayakodi</i></p> <p><b>S17088:</b> Competencies of Construction Professionals to Perform Circular Economy Practices: A Systematic Review <i>D.S.I. Wijayawardena, Iresha Gamage, Sepani Senaratne, B.A.K.S. Perera</i></p> <p><b>S17097:</b> A Review on Circular Economy and its Synergy with Industrial Symbiosis <i>Angel Lokuge, Gihan Anuradha Tennakoon, Udayangani Kulatunga</i></p> <p><b>S17108:</b> Comparison of Legislation of UK and Sri Lanka for Better Implementation of Circular Economy in Sri Lankan Construction Industry <i>M.D.T.E. Abeynayake, B.A.K.S. Perera</i></p> <p><b>S17132:</b> Review of Circularity Assessment Tools in the Built Environment <i>S. Shende, V. Anagal, A. Manewa, S. Karve, A. Garud, M. Siriwardena</i></p>	<p><b>S17006:</b> Assessing Organisational Readiness for Digital Transformation: Key Attributes for Indigenous South African Construction Firms <i>Mayowa Adedapo Ogungbe, Matthew Ikuabe, Clinton Ohis Aigbavboa</i></p> <p><b>S17007:</b> Defining Green Building Criteria for Building Information Modeling-Based Rating Systems <i>Mustika Sari, Mohammed Ali Berawi, Rahmadi Surya, Gunawan Saroji, Nunik Madyaningarum, Siti Rahma Utami, Rafly Muzady</i></p> <p><b>S17085:</b> Towards a Computerised Maintenance Management System for Healthcare Facilities in South Africa <i>Matthew Ikuabe, Clinton Aigbavboa, Bankole Awuzie, Mayowa Ogungbe</i></p> <p><b>S17090:</b> Barriers to Adoption of Automation in Indian Construction Projects <i>Mohammed Akberuddin Adnan, Santhosh Loganathan</i></p> <p><b>S17103:</b> A Review of Procurement and Management of Building Services Systems: Complexities and Technology Adoption <i>Sachindra Hewavitharana, Srinath Perera, Xiaohua Jin, Krisanthi Seneviratne, Keivan Bamdad</i></p>	<p><b>S17058:</b> Towards Successful Implementation of Offsite Construction in Sri Lanka: Barriers and Strategies <i>L.P.T. Manodya, R.P.H.S. Bandara, P.H.Y. Buddhini</i></p> <p><b>S17023:</b> Unlocking Efficiency in Timber Frame Construction: A Comparative Study of On-Site vs. Off-Site Approaches in Scotland <i>Georgia Fraser, Nirodha Fernando, Deeksha Sharma</i></p> <p><b>S17031:</b> Potential Use of Plastic Waste as a Sustainable Construction Material in Sri Lanka <i>S. Geerthanam, S. Sivanraj</i></p> <p><b>S17043:</b> Optimising Material Selection for Design for Deconstruction: A Kano Model-Based Evaluation of Doors and Windows <i>P.H.G.M.A. Ranasinghe, K.G.A.S. Waidyasekara, D.N.L.S. Nuwantha</i></p> <p><b>S17050:</b> Green Adaptive Re-Use of Buildings in Sri Lanka <i>H.G.S. Dushmantha, Udayangani Kulatunga, N.B. Nanayakkara, W.S.D. Perera</i></p> <p><b>S17059:</b> Towards a Circular Economy: Evaluating Effective Implementation Strategies for Recycling and Reuse Programmes in Sri Lanka's Construction Industry <i>S.D.V. Lakshan, W.M.C.L.K. Wijekoon, P.H.Y. Buddhini</i></p>	<p><b>S17013:</b> Disaster-Resilient Cities: Temporal Analysis of Urban Land Use Land Cover Changes and Urban Floods from 1999 To 2022: Case Study of Colombo, Sri Lanka <i>U. Abeysinghe, H.U.C.P. Hewawasam, J. Manatunga</i></p> <p><b>S17039:</b> Sustainable Urban Mobility in Sri Lanka: The Imperative for an Inherent Human-Centered Approach for Holistic Development <i>J.A.C.D. Jayalath, Udayangani Kulatunga</i></p> <p><b>S17061:</b> Review on Technological Interventions to Enhance Flood Resilience in the Built Environment <i>R.P.T. Nayanathara, M. Thayaparan</i></p> <p><b>S17098:</b> Serious Games for Disaster Risk Reduction: Enhancing Community Preparedness for Sustainable Futures <i>Udayangani Kulatunga, H. Tariq</i></p> <p><b>S17111:</b> Crowdfunding for Post-Disaster Reconstruction Projects: A Conceptual Framework <i>M.R.M. Riskan, K.D. Sepalage, D. Weerasooriya, K.A.T.O. Ranadewa</i></p> <p><b>S17126:</b> A Human Centred Approach to Post Disaster Resettlement Housing: Case Study on Walk-Up Apartments in Sri Lanka <i>M.S.N. de Zoysa, S.B.A. Coorey, M. Thayaparan, L. de Silva</i></p>	<p><b>S17037:</b> Developing a Satellite-Enabled Digital Twin Ecosystem Framework for Energy Monitoring in Smart Cities in Sri Lanka: A Literature Review <i>Rusin Thathsara, Harshini Mallawaarachchi</i></p> <p><b>S17042:</b> Short-Term Electricity Demand Forecasting in Sri Lanka Using Statistical and Deep Learning Models <i>Ranju Kumari Shiwakoti, Piya Limcharoen, D.N.L.S. Uduwage</i></p> <p><b>S17049:</b> IOT Implementation for Energy Management within Residential Buildings in Sri Lanka: Drivers and Barriers <i>P. Theiventhralingam, S. Sivanraj, K.H.K. Dharmadasa, Udayangani Kulathunga</i></p> <p><b>S17071:</b> The Effect of Vertical Greenery Systems on Building Energy Performance: Overall Thermal Transfer Value-Based Comparative Analysis <i>R.A.A. Munsif, Harshini Mallawarachchi, Dimuthu Vijerathne</i></p> <p><b>S17073:</b> Building Energy Data Management Systems in the World: A Review <i>S.D.R.Y. Silva, H.W.N. Madhusanka, K.A.R.V.D. Kahandawa</i></p> <p><b>S17079:</b> An Investigation into Effective Energy Behavior Control Strategies in the Apparel Manufacturing Sector <i>N. Premananth, S.D.A. Soorige</i></p>

<p>Session 3A: <b>Innovations in Sustainable Facilities and Maintenance Management</b></p> <p>Session Chair: <b>Dr. Tharusha Ranadewa</b></p> <p>Session Coordinator: <b>Mr. Kawshalya Sepalage</b></p>	<p><b>ONLINE</b></p> <p>Session 3B: <b>Sustainability, Social Impact, and Workforce in Global Construction</b></p> <p>Session Chair: <b>A/Prof. Gajendran Thayaparan</b></p> <p>Session Coordinator: <b>Ms. Piumi Tennakoon</b></p>	<p>Session 3C: <b>Innovative Data-Driven Approaches for Cost and Quality Optimization in Construction</b></p> <p>Session Chair: <b>Senior Prof. Kanchana Perera</b></p> <p>Session Coordinator: <b>Mr. Yasith Sandaruwan</b></p>	<p>Session 3D: <b>Policy, Education, and Sustainability Challenges</b></p> <p>Session Chair: <b>Prof. Menaha Thayaparan</b></p> <p>Session Coordinator: <b>Ms. Anuki Kavirathna</b></p>	<p>Session 3E: <b>Sustainable Waste Management and Material Innovation in Construction</b></p> <p>Session Chair: <b>Prof. Udayangani Kulatunga</b></p> <p>Session Coordinator: <b>Ms. Saambavi Sivanraj</b></p>
<p><b>S17080:</b> Rainwater Harvesting Systems as a Sustainable Water Management Strategy: Addressing Water Security Challenges in Sri Lankan Buildings <i>W.M.S.D. Wijerathna, G.A.K. Dulshan, K.A.S.H. Wijayasenarathne, R.M.A. Dilini</i></p> <p><b>S17081:</b> Applicability of Lean Maintenance Practices to Mitigate Maintenance Management Issues in Sri Lankan High-Rise Residential Buildings <i>U.H.M.S. Samaranayaka, U. Rathnayake, A.S.W Karunarathna</i></p> <p><b>S17089:</b> Shaping Regenerative Stormwater Management: A Conceptual Framework for Blue-Green Infrastructure <i>H. Nethmini, C. Hadiwattage, S. Sivanraj, M.M.N. Mannapperuma</i></p> <p><b>S17101:</b> Assessing the Impact of Organisational Culture on Digital Transformation in the Sri Lankan Facilities Management Industry <i>A.S.W. Karunarathna, Jayantha Wadu Mesthrige</i></p> <p><b>S17102:</b> Identifying Maintenance Training Needs in Sri Lanka’s Apparel Industry and Augmented Reality as a Strategic Solution <i>W.M.I.H. Wijesundara, P. Sridarran, P.A.P.Y. Gajaba</i></p>	<p><b>S17004:</b> Coping Strategies Adopted by Inhabitants with Asbestos Cement Roof Houses in South African Legacy Township <i>Nonhlanhla Maphoso, Christopher Amoah</i></p> <p><b>S17087:</b> Assessing Key Risk Factors for Workers During Nighttime in the Indian Construction Industry <i>Naman Srivastava, Rohit Sahu, Sparsh Johari</i></p> <p><b>S17113:</b> Community Benefit and Engagement Frameworks in Australian Renewable Energy Transition: A Thematic Analysis <i>Umesha Weerapperuma, Navodana Rodrigo, M.K.C.S. Wijewickrama, George Zillante</i></p> <p><b>T17118:</b> Assessing Factors Influencing Worker Retention in the Indian Construction Industry <i>Akumoni Pegu, Rohit Sahu, Sparsh Johari</i></p> <p><b>S17135:</b> Sustainable Solar: Addressing the Growing Need for PV Panel Recycling <i>Tariq Umar, Sa’id Ahmed, Muhammad Qasim Rana</i></p>	<p><b>S17001:</b> Perceived and Expected Cost Optimization Affordances of Building Information Modelling in Sri Lankan Construction Projects <i>J. Logendran, S. Sivanraj, V. Lingasabesan, Himal Suranga Jayasena, B.A.I. Eranga</i></p> <p><b>S17005:</b> A Study Assessing the Application of Artificial Neural Network for Preliminary Estimation in Sri Lankan Building Projects <i>U.P. Wijerathne, Udayangani Kulatunga, M.L.S.S. Fernando</i></p> <p><b>T17008:</b> Predicting Cost Elements of Construction Projects Using Supervised Machine Learning Techniques <i>K.A.M. Rasila, I. Mahakalanda, M.W. Edirisooriya</i></p> <p><b>S17036:</b> Optimizing Quality Management in the Construction Industry: A COQ-Based Predictive Analysis <i>Nandini Sharma, Rhijul Sood, Boeing Laishram</i></p> <p><b>S17128:</b> Exploring Perceptual Mapping Technique as an Innovative Method of Representing Construction Cost Information <i>D.N.L.S. Uduwage, Himal Suranga Jayasena, S. Piranavan</i></p>	<p><b>S17028:</b> Constructing National Policy for Future Generations: A Design Approach to Children’s Books <i>S. Samarawickrama</i></p> <p><b>S17044:</b> Decent Work Enforcement Gaps: Adapting Global Lessons into Sri Lankan Construction Industry <i>Sathyami Dissanayake, D.N.L.S. Uduwage, R.A.B.U.N. Perera</i></p> <p><b>S17095:</b> Evaluating the Effectiveness of Approved Document in Mitigating Overheating in Buildings: A Focus on Modern Methods of Construction <i>Patience Isaac, Roshani Palliyaguru, R.A.B.U.N. Perera</i></p> <p><b>S17117:</b> Impact of the Sri Lankan Government Economic Reform Programmes on the Construction Industry since Year 2022 <i>B. Gheethanjali, Y.G. Sandanayake, D.M.L.N. Bandaranayake</i></p> <p><b>S17136:</b> Present Realities and Future Directions of AI Integration within Built Environment Higher Education <i>L. Jones, A. Manewa, M. Siriwardena, V. Anagal, S. Karve, A. Guard</i></p>	<p><b>S17027:</b> A Bibliometric Analysis of Computer Vision Applications in Construction and Demolition Waste Management <i>A.S.W. Karunarathna, G.G.N. Chandani</i></p> <p><b>S17021:</b> Utilization of Textile Industry By-Products to Develop and Optimize Geopolymerized Mud Concrete for Sustainable Construction <i>K.G.C. Gayashani, R.K.N.P. Piyasena, D.A. Oshadhi, S.M. Young, R.U. Halwatura</i></p> <p><b>S17076:</b> Impact of Material Waste Management on Construction Cost of the Projects in Sri Lankan Construction Industry <i>Malith Jaypadma, Kumari Wijekoon, Hansi Deheragoda</i></p> <p><b>S17124:</b> Bridging the Gap: Enabling a Secondary Material Market for Construction and Demolition Waste <i>A.V.R.S. Kavindi, I.E. Illeperuma, M.D.T.E. Abeynayake</i></p> <p><b>S17047:</b> Urban Symbiosis in Municipal Solid Waste Management and Reduction: Insights from a Bibliometric Review <i>G.G.N. Chandani, A.S.W. Karunarathna</i></p>
<p>Session 4A: <b>Enhancing Construction Performance through Innovation and Management</b></p> <p>Session Chair: <b>Dr. Nuwantha Uduwage</b></p> <p>Session Coordinator: <b>Ms. Nimaya Perera</b></p>	<p><b>ONLINE</b></p> <p>Session 4B: <b>Innovative Approaches for Improving Construction Project Performance</b></p> <p>Session Chair: <b>Assistant Prof. Sivakumar Palaniappan</b></p> <p>Session Coordinator: <b>Ch. QS Dilshan Akalanka</b></p>	<p>Session 4C: <b>Building Performance and Resilience through Defect Analysis and Evaluation</b></p> <p>Session Chair: <b>Dr. Anupa Manewa</b></p> <p>Session Coordinator: <b>Mr. Kawshalya Sepalage</b></p>	<p>Session 4D: <b>Sustainability Performance and Practices in the Built Environment</b></p> <p>Session Chair: <b>A/Prof. Nirodha Fernado</b></p> <p>Session Coordinator: <b>Ms. Dewmini Wijerathne</b></p>	<p>Session 4E: <b>Optimising Public Procurement through Social Value and Competency</b></p> <p>Session Chair: <b>Ch. QS Vijitha Disaratna</b></p> <p>Session Coordinator: <b>Ms. Nishadi Nanayakkara</b></p>
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