



Australia Awards



Curtin University

Guest Lecture

'The Future of Sustainable Buildings: Inside the Legacy Living Lab'

By: Dr Roberto Minunno

Friday, 19 June 2026

02:00pm to 4:00pm (Jakarta time)

Indonesian graduates and scholars of Australian tertiary institutions who are interested in attending this event, please RSVP by Wednesday, 17 June, via this link:

<http://oz.link/rsvpGL19JUN>

**Due to the limited availability of places, early registration is recommended. A link to this event will be shared with you after registration.*

Lecture overview

As the built environment faces growing pressure to reduce carbon emissions and minimise waste, circular economy principles are playing an increasingly important role in shaping the future of sustainable architecture. This lecture introduces the Legacy Living Lab (L3), a pioneering example of circular design and construction that demonstrates how buildings can be designed for long-term sustainability and adaptability.

L3 is a fully reusable and disassemblable building, created to minimise environmental impact by enabling materials and components to be recovered and reused rather than discarded. Impressively, the project achieved nearly a 90% reduction in carbon emissions during its initial life cycle compared to conventional buildings. The structure will later be relocated and repurposed, offering a practical demonstration of circularity in action.

The lecture will explore the innovative design strategies, material selections and construction methods that made L3 a groundbreaking model for sustainable development. It will also examine how circular economy principles can be adapted within the Indonesian context to support more resource-efficient and environmentally responsible building practices. Following the presentation, participants will have the opportunity to exchange ideas and explore practical strategies to help advance circular economy practices locally.

Dr Roberto Minunno is ranked among the top 1% of scholars globally in the field of circular economy (source: ScholarGPS). His work focuses on advancing the circular economy of buildings and resources through research, innovation and applied practice. Dr Minunno's flagship initiative, the Legacy Living Lab, is a modular, disassemblable, and reusable office that demonstrates how these design principles can be applied in the built environment. He currently serves as Co-Director of a Western Australia state-wide project developing digital tools to track waste and material flows across Australia. In addition, Dr Minunno is the Courses Coordinator for the Masters of Environment and Climate Emergency at the Curtin University Sustainability Policy (CUSP) Institute.

Dr Minunno completed his PhD at Curtin University, where his research focused on the circular economy of buildings. His doctoral work applied Life Cycle Assessments (LCA) and circular economy indicators to evaluate the environmental performance of products and processes. During this time, Dr Minunno and the CUSP team conceptualised and developed the Legacy Living Lab, a movable and modular building designed for reuse and adaptability. Now based in Fremantle, the Lab serves as a vibrant hub for research, innovation and industry collaboration.

Beyond his work in circular construction, Dr Minunno also brings strong methodological expertise in Systematic Literature Reviews (SLRs), enabling him to analyse and synthesise academic research to support evidence-based approaches to sustainability and circular design.



★ / **Dr Roberto Minunno**
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