

Circular Design Approach as Strategy for Sustainable Architecture in Cultural Heritage Building in Lasem

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Abstract

Circular design, as part of the circular economy (CE), aims to reduce the environmental impact of the production process. The city is an activity center where various levels of production to consumption ends in generating wastes. Lasem had significant historical victory stories, in social and cultural. Lasem was and is still a place for multiethnic life with all its dynamics. Over time the functional, visual and environmental qualities in Lasem have degraded or deteriorated, related to the decline in economic activity, including the production of batik in the walled house. Circular city design strategy is needed to overcome the challenge. Historical buildings need to adapt, where the functions in buildings consider contemporary needs and can be used optimally without having to change or renovate on a large scale and wastes energy. One of the strategies is adaptive reuse, propose framework, criteria and scheme that expect to be an alternative solution to achieve sustainable architecture of cultural heritage buildings functionally, environmentally and economically. Methodology used in this research is literature study to get brief comparative studies to enhance the value of cultural heritage buildings through circular design approach.

Keywords

circular design, adaptive reuse, sustainable architecture, cultural heritage building, Lasem

Biography

Mila Andria Savitri, alumni of the Bachelor of Architectural Engineering and Postgraduate of the Faculty of Art and Design, at Bandung Institute of Technology. She has worked in the fields of architecture, urban design and interior design. She taught at Binus Jakarta Interior Design before serving in the Binus Bandung Interior Design study program as Head of Department of Interior Design under School of Design. Interested in developing research on sustainable design, adaptive reuse, cultural heritage buildings, sense of place and digital placemaking.

Rachmi Kumala Widyasari works in the Interior Design Study Program, School of Design, Bina Nusantara University. Widyasari is a doctoral graduate from the Bandung Institute of Technology who studies worker behavior and creative workspaces in work based on Indonesian traditions. Currently, Widyasari is still actively continuing her doctoral research regarding The Relationship Between the Behavior of Batik Artisans and The Working Area in A Traditional Batik House in Central Java.

