

The Doughnut Economic Approach in Architecture

Medici, P.; Cavallo, R.; van Bennekom, H.A.

Publication date

2023

Document Version

Final published version

Published in

RAPS 2022 Eindhoven Conference

Citation (APA)

Medici, P., Cavallo, R., & van Bennekom, H. A. (2023). The Doughnut Economic Approach in Architecture. In T. W. A. Schröder, W. Zhong, S. Banou, & J. M. B. Meneses de Sequeira (Eds.), *RAPS 2022 Eindhoven Conference: Radical Entanglements; Architectures, Societies, Environments, Politics; Book of Abstracts* (pp. 54). Radical Architecture Practice for Sustainability & Eindhoven University of Technology.

Important note

To cite this publication, please use the final published version (if applicable).
Please check the document version above.

Copyright

Other than for strictly personal use, it is not permitted to download, forward or distribute the text or part of it, without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license such as Creative Commons.

Takedown policy

Please contact us and provide details if you believe this document breaches copyrights.
We will remove access to the work immediately and investigate your claim.



change
the culture
not the
climate



Radical
ENTANGLEMENTS:
ARCHITECTURES,
SOCIETIES,
ENVIRONMENTS,
POLITICS

RAPS
CONFERENCE 2022
11-12 NOVEMBER
EINDHOVEN

Book of Abstracts
Radical Architecture Practice for Sustainability
2nd International Conference

The Doughnut Economic Approach in Architecture

Piero Medici, Roberto Cavallo and Henri van Bennekom
(Delft University of Technology, NL)

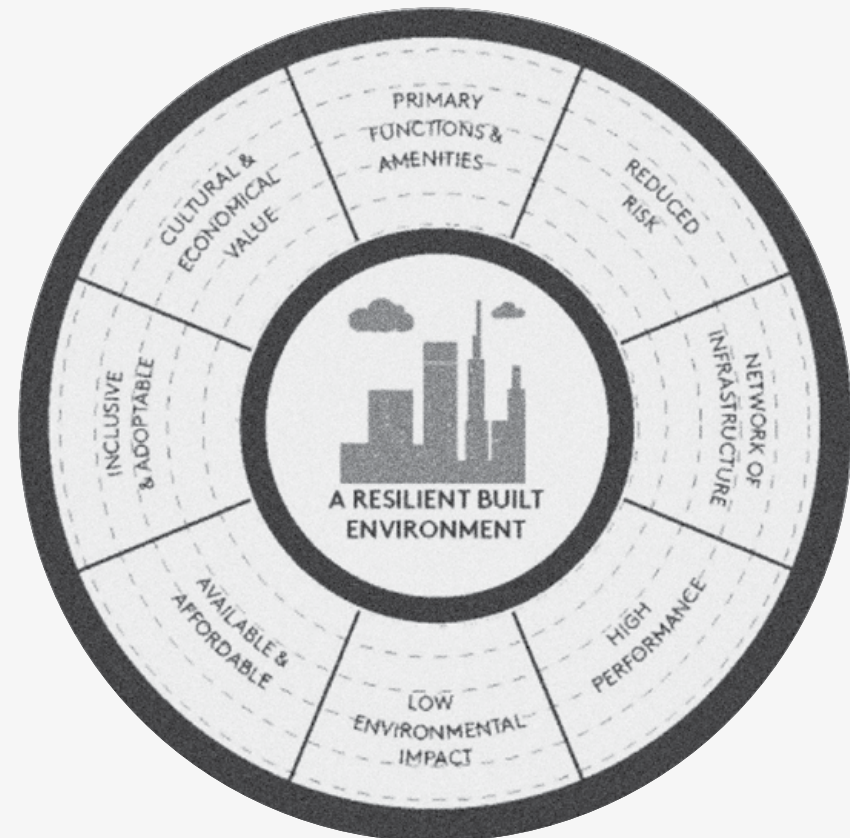
In 2017 Prof Kate Raworth from Oxford University and Amsterdam University published the book *Doughnut Economics: seven ways to think like a 21st century economist*. The Doughnut, the core concept at the heart of Doughnut Economics (DE), is a tool for human prosperity in the 21st century to meet the needs of all people within the means of the living planet. It consists of two concentric rings, a social foundation and an ecological ceiling, and in between lies a doughnut-shaped space, the safe and just space where humanity can thrive.

In 2018, at the Faculty of Architecture TU-Delft (BK), Henri Van Bennekom supervised the graduation projects of four students who developed the AREA-Framework, a tool to guide the design interventions in the built environment, addressing DE. In Raworth's doughnut-shaped space, the AREA-Framework introduced the following qualitative eight categories (and subcategories) to address a resilient built environment. From 2019 until 2021, Van Bennekom adopted the AREA-Framework in the AREA Design Studio at BK, TU-Delft. Most involved researchers, practitioners and students' feedback highlighted its limitations of being only qualitative and its categories and subcategories being not enough quantitative and measurable.

In 2020 several architectural practices from the Ex'tax-network, (e.g. RAUArchitects, CityFoerster, SuperuseStudios, Space&Matter) involved in the TU-Delft

project 'Circularcity' expressed the need for guidelines and toolkits to address the Circular Economy (CE) challenges comprehensively. Space&Matter proposed to develop a research specifically focused on a tool similar to the AREA-framework, reckoning that DE is part of the Amsterdam policy to achieve a fully circular city by 2050; other practices from the Ex'tax-network agreed on its importance. The following research question originated from the practices involved in Circularcity: how to develop a tool similar to the AREA-Framework further, from a quantitative and qualitative perspective, to support the architectural practices to implement DE in the built environment?

The goal of this paper is to proceed with the first step to develop the framework further through literature review and interviews with practitioners and academics. The framework will contribute to positioning the architectural practices concerning both DE and CE.



Imprint

RAPS 2022 Eindhoven Conference
Radical Entanglements
Architectures, Societies, Environments, Politics
Book of Abstracts



Radical Architecture Practice for Sustainability
2nd International Conference

Editors: Torsten Schröder, Weijie Zhong, Sophia
Banou and João Manuel B. Meneses de Sequeira.

Publisher: Radical Architecture Practice for
Sustainability & Eindhoven University of Tech-
nology

Graphic Design: Marius Schwarz

Eindhoven, 2023
ISBN: 978-90-9037548-9

TU/e EINDHOVEN
UNIVERSITY OF
TECHNOLOGY

A R E N A