

This is a section of [doi:10.7551/mitpress/14712.001.0001](https://doi.org/10.7551/mitpress/14712.001.0001)

Cryptographic City

Decoding the Smart Metropolis

By: Richard Coyne

Citation:

Cryptographic City: Decoding the Smart Metropolis

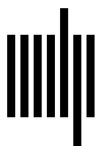
By: Richard Coyne

DOI: 10.7551/mitpress/14712.001.0001

ISBN (electronic): 9780262374811

Publisher: The MIT Press

Published: 2023



The MIT Press

Acknowledgments

I am grateful for the contributions of several PhD candidates who have helped me develop the themes presented in this book: Georgios Berdos, Eleftheria Dimitriadi, Negar Ebrahimi, Chong (Jason) Fu, Victoria Jones, Dorothea Kalogianni, Roxana Bakhshayesh Karam, Asad Ullah Khan, Gregg Sabacan Lloren, Adelaide McGowan, Graham Shawcross, Najwa Diyana Binti Sulaiman, Weijing Wang, Guodong Yang, and Chuxuan Zhang in the Edinburgh School of Architecture and Landscape Architecture at the University of Edinburgh.

Students on the MSc in Design and Digital Media and MSc by Research in Digital Media and Culture contributed extremely helpful insights as they delivered blog posts and responses to questions about social media, digital security, artificial intelligence, ethics, and the smart city.

The work also benefited from discussions with colleagues John Lee, Miguel Paredes, Andrew Connor, David House, Shameel Mohammed, Denitsa Petrova, Nick Prior, Jules Rawlinson, Agnese Sile, Harry Smith, Chris Speed, Bridgette Wessels, and especially Tolu Onabolu who first introduced me to the implications of blockchain technology, and Aggelos Kiayias, Pedro Jacobbety, and fellow researchers in the Interdisciplinary Blockchain Group in the School of Informatics at the University of Edinburgh. This work has also benefited from my association with the Blockchain Technology Laboratory and the IO Research Hub.

Some of the research leading to this book was also supported by the Centre for Future Infrastructure in the Edinburgh Futures Institute at the University of Edinburgh.

As ever, I am grateful to Adrian Snodgrass for introducing me to the rich body of ideas and sources through which to frame questions posed by digital technologies, and pioneer in digital architecture John Lansdown who encouraged me to keep writing.

© 2023 Massachusetts Institute of Technology

This work is subject to a Creative Commons CC-BY-NC-ND license.

Subject to such license, all rights are reserved.



The MIT Press would like to thank the anonymous peer reviewers who provided comments on drafts of this book. The generous work of academic experts is essential for establishing the authority and quality of our publications. We acknowledge with gratitude the contributions of these otherwise uncredited readers.

This book was set in ITC Stone Serif Std and ITC Stone Sans Std by New Best-set Typesetters Ltd.

Library of Congress Cataloging-in-Publication Data

Names: Coyne, Richard, author.

Title: Cryptographic city : decoding the smart metropolis / Richard Coyne.

Description: Cambridge, Massachusetts ; London, England : The MIT Press, [2023] | Includes bibliographical references and index.

Identifiers: LCCN 2022021507 (print) | LCCN 2022021508 (ebook) |

ISBN 9780262545679 (paperback) | ISBN 9780262374811 (pdf) |

ISBN 9780262374828 (epub)

Subjects: LCSH: Smart cities. | Internet of things. | Urban development—Data processing. | Public administration—Security measures. | Data encryption (Computer science)

Classification: LCC TD159.4 .C69 2023 (print) | LCC TD159.4 (ebook) |

DDC 004.67/8—dc23/eng/20221011

LC record available at <https://lcn.loc.gov/2022021507>

LC ebook record available at <https://lcn.loc.gov/2022021508>

10 9 8 7 6 5 4 3 2 1