

**DESIGNING
TERRITORIAL
METABOLISM**

Barcelona,
Brussels,
and Venice

**GEOFFREY GRULOIS
MARIA CHIARATOSI
CARLES CROSAS
[EDS.]**

TABLE OF CONTENTS

- 7 **PREFACE**
Designing Territorial Metabolism at the Crossroads of Urbanism, Ecology, and Ecosystem Thinking

Geoffrey Grulois, Carles Crosas, and Maria Chiara Tosi
- PART 1—ON TERRITORIAL METABOLISM**
- 15 **INTRODUCTION**
On Territorial Metabolism
Marco Ranzato and Geoffrey Grulois
- 21 **TOWARDS A FAIR TRANSITION IN HEYVAERT (BRUSSELS)**
Ideas for Urban Renewal from a Circular Economy Perspective

Nadia Casabella and Elsa Bouillot
- 41 **ON THE CIRCULARIZATION OF TERRITORIAL METABOLISM**

Stephan Kampelmann
- 55 **FROM ECOLOGY TO URBANISM**
Urban Metabolism Genealogies and Perspectives
in Urbanism Theory and Practice

Andrea Bortolotti, Geoffrey Grulois, and Marco Ranzato
- 71 **GENEALOGIES OF THE ECOLOGICAL ISSUES IN THE ITALIAN DISCOURSE ON CITTA DIFFUSA**
Territories and Debates

Cristina Renzoni and Maria Chiara Tosi
- 87 **BARCELONA METROPOLIS**
Interplay between Urban Project and Urban Metabolism

Carles Crosas and Jorge Perea

PART 2—RESEARCH BY DESIGN

- 105 **INTRODUCTION**
Atlas and Design as Instruments of Knowledge
Maria Chiara Tosi, Carles Crosas, and Geoffrey Grulois
- 112 **METROPOLITAN ATLAS OF BARCELONA. BRUSSELS.
AND VENICE**
Alvise Moretti, Andrea Fantin, Joan Martí, and Adrien Laught
- 143 **SUSTAINABLE WASTE MANAGEMENT AND CO.-BASED
URBAN PLANNING FOR MOLINS DE REI**
Miguel Rami, Elisabeth Terrisse, and Roberta Sinestasio
Studio Carles Crosas and Jorge Perea (ETSAB)
- 165 **PRODUCTIVE LANDSCAPE AS A NEW PUBLIC SPACE FOR
RESIDENTIAL SUBURBS IN HALLE**
Florentine Sieux, Margot Therond, and Thibault Wery
Studio Geoffrey Grulois, Nadia Casabella, and Gery Leloutre (ULB)
- 185 **REGENERATION SCENARIOS FOR THE MARZENEGO RIVER
AND THE CITTA DIFFUSA**
Andrea Fantin and Alvise Moretti
Studio Maria Chiara Tosi and Luca Nicoletto (IUAV)
- 207 **ENERGY OPPORTUNITIES IN POST-OIL SCENARIOS IN
TARRAGONA PORT**
Nils Fischer and Lars Wustemann (Heating and Cooling District) / Asier Ovejas (Coldport)
Studio Carles Crosas and Jorge Perea (ETSAB)
- 235 **CAR (RE)CYCLE IN BUDA**
Davide Cauciello, Studio Geoffrey Grulois, and Nadia Casabella (ULB)
- 259 **ENI PARK. CHANGING PORTO MARGHERA**
Alberto Dal Bo, Alessio Milan, Thomas Pesce, and Leandro Varillas Sanchez
Studio Maria Chiara Tosi and Luca Nicoletto (IUAV)
- 281 **IMAGE CREDITS**
- 282 **BIOGRAPHIES OF AUTHORS**
- 288 **IMPRINT**