# **Table of Contents**

## **Beyond Dense and Green** 8

Kees Christiaanse Founder of KCAP Architects and Planners

## **Shaping Future Cities** 10

Emerging Models of Integrated Urban Development

## **Dense+Green Dimensions**

## **Exploring Dense and Green Urban Development** 50

A Comprehensive Study of Sustainable Integrated Districts

Spatial Performance 50
Social Performance 54
Environmental Performance 57
Ecological Performance 59
Economic Performance 60

A Multi-Dimensional Approach to Research on Future Cities 63



#### **Dense+Green Case Studies**

#### One-north 68

Singapore

Master Plan: Zaha Hadid Architects

Spatial Performance 82
Social Performance 88
Environmental Performance 96
Ecological Performance 100
Economic Performance 104
Conclusion 106

## **Jurong Lake District** 108

Singapore

Master Plan: KCAP (Lead), SAA Architects, Arup, S333, Lekker

Spatial Performance 116
Social Performance 124
Environmental Performance 132
Ecological Performance 134
Economic Performance 140
Conclusion 145

#### Punggol Digital District 148

Singapore

Master Plan: WOHA Architects

Spatial Performance 154
Social Performance 160
Environmental Performance 165
Ecological Performance 165
Economic Performance 168
Conclusion 170

## King's Cross 172

London, United Kingdom Master Plan: Allies and Morrison, Porphyrios Associates, and Townshend Landscape Architects

Spatial Performance 182
Social Performance 184
Environmental Performance 187
Ecological Performance 190
Economic Performance 196
Conclusion 198

#### Zuidas 200

Amsterdam, The Netherlands Master Plan: Amsterdam Urban Planning Council and Pi de Bruijn of de Architekten

Spatial Performance 211
Social Performance 216
Environmental Performance 222
Ecological Performance 222
Economic Performance 225
Conclusion 227

#### Quayside 230

Toronto, Canada Master Plan: Henning Larsen, Alison Brooks Architects, and Adjaye Associates

Spatial Performance 236
Social Performance 238
Environmental Performance 239
Ecological Performance 239
Economic Performance 246
Conclusion 247

## **Sustainable Integrated Districts in Existing Fabric**

## **The Zurich Example** 250

Sacha Menz

Case Studies Altstetten and Albisrieden Zurich, Switzerland

Spatial Performance 269
Social Performance 270
Environmental and Ecological Performance 272
Governance and Planning Approaches 277
Conclusion 280

#### **Dense+Green Outlook**

**Shaping the Future of Urban Development** 286

# **Appendix**

Bibliography 296

Acknowledgements 303

Contributors 304

Index of Names 309

Subject Index 313

Illustration Credits 317