CONCISE GUIDES

to the UNITED NATIONS
SUSTAINABLE DEVELOPMENT GOALS



MAHA AL-ZU'BI VESELA RADOVIC

# SDG11 – SUSTAINABLE CITIES AND COMMUNITIES

## CONCISE GUIDES TO THE UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS

#### Series Editors

Walter Leal Filho World Sustainable Development Research and Transfer Centre, Hamburg University of Applied Sciences

Mark Mifsud

Centre for Environmental Education and Research, University of Malta

This series comprises 17 short books, each examining one of the UN Sustainable Development Goals.

The series provides an integrated assessment of the SDGs from an economic, social, environmental and cultural perspective. Books in the series critically analyse and assess the SDGs from a multi-disciplinary and a multi-regional standpoint, with each title demonstrating innovation in theoretical and empirical analysis, methodology and application of the SDG concerned.

Titles in this series have a particular focus on the means to implement the SDGs, and each one includes a short introduction to the SDG in question along with a synopsis of their implications on the economic, social, environmental and cultural domains.

# SDG11 – SUSTAINABLE CITIES AND COMMUNITIES

Towards Inclusive, Safe, and Resilient Settlements

BY

MAHA AL-ZU'BI University of Calgary, Canada

VESELA RADOVIC
Belgrade University, Serbia



United Kingdom – North America – Japan – India Malaysia – China Emerald Publishing Limited Howard House, Wagon Lane, Bingley BD16 1WA, UK

First edition 2019

© Maha Al-Zu'bi and Vesela Radovic, Published under an exclusive licence

#### Reprints and permissions service

Contact: permissions@emeraldinsight.com

No part of this book may be reproduced, stored in a retrieval system, transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without either the prior written permission of the publisher or a licence permitting restricted copying issued in the UK by The Copyright Licensing Agency and in the USA by The Copyright Clearance Center. Any opinions expressed in the chapters are those of the authors. Whilst Emerald makes every effort to ensure the quality and accuracy of its content, Emerald makes no representation implied or otherwise, as to the chapters' suitability and application and disclaims any warranties, express or implied, to their use.

#### British Library Cataloguing in Publication Data

A catalogue record for this book is available from the British Library

ISBN: 978-1-78756-924-9 (Print) ISBN: 978-1-78756-921-8 (Online) ISBN: 978-1-78756-923-2 (Epub)



ISOQAR certified Management System, awarded to Emerald for adherence to Environmental standard ISO 14001:2004.

Certificate Number 1985 ISO 14001



## CONTENTS

List	of Illustrations	vi
About the Authors		i×
Acknowledgments		X
Intr	oduction	1
1.	Cities and Key Interactions	3
2.	SDG11 and the Associated Challenges to Implementation	21
3.	Mapping SDG Stories	77
Conclusion		93
References		97
Index		121



## LIST OF ILLUSTRATIONS

ВОХ				
Box 1	SDG11 and its 10 Targets.	5		
TABLES				
Table 1	Contributions of Green Roofs to the SDGs.	25		
Table 2	Matrix for SDG11.	42		
Table 3	SDG 1.1 Targets and Indicators.	47		
Table 4	Germany's Strategy and Programme Plan, 2017–2021.	58		
FIGURES				
Figure 1	Complex Dynamics between Cities and Climate Change.	9		
Figure 2	Amman Green Growth Programme.	82		



### ABOUT THE AUTHORS

Maha Al-Zu'bi, PhD, is Associate Consultant and Member of the Board of Directors of Plan: NET Limited, Calgary, Canada. Dr Al-Zu'bi, who specialises in environmental policy design, energy environmental systems and sustainable development, conducts most of her research in the Middle East region, focussing on the Arab cities, with the goal of proposing local climate policy and principles for governance of climate change adaptation and mitigation. Dr Al-Zu'bi has extensive involvement in managing internationally funded projects with the UNDP, WB, GIZ, etc., and is actively fostering interdisciplinary approaches to real-world energy, water and environmental issues. Dr Al-Zu'bi has published several papers related to climate change governance, green roof policy and the energy—water—food nexus.

Vesela Radovic, PhD, is an Associate Professor and Senior Researcher at the Institute for Multidisciplinary Research, Belgrade University, Serbia. She has a long record of experience in the area of sustainable development. She is an expert in the area of environmental protection and disaster management. She spent a year with the Fulbright/Hubert Humphrey Fellowship at Tulane University, School of Public Health and Tropical Medicine, Department of International Health and Development, New Orleans, LA. During that year, in the United States, her focus was on public policy making, emergency preparedness

About the Authors

and environmental protection. Dr Radovic has published a book, *Environmental Security Evaluation and Contemporary Approach*, and numerous articles at home and abroad. She has participated in many national and international projects and works as a regional expert in the sustainable development project.

### **ACKNOWLEDGEMENT**

The authors would like to thank Professor Ivana Stojiljkovic for her valuable input, particularly the contribution to 'The Cross-Cutting Nature of SGD11' section.