



*sustainability*



*Special Issue Reprint*

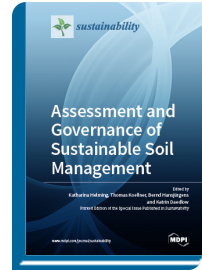
## Assessment and Governance of Sustainable Soil Management

[www.mdpi.com/books/reprint/1989](http://www.mdpi.com/books/reprint/1989)

Edited by  
Katharina Helming  
Thomas Koellner  
Bernd Hansjürgens  
Katrin Daedlow

ISBN 978-3-03921-479-2 (Softback)

ISBN 978-3-03921-480-8 (PDF)



The role of soils for achieving the Sustainable Development Goals is multifarious. Soils are the essential basis for food and biomass provision in support of food security (SDG 2) and energy security (SDG 7). Soil carbon sequestration is paramount for climate action (SDG 13). Soil-mediated water purification and retention, nutrient and matter cycling, and soils habitat functions are essential for maintaining ecosystem services and biodiversity (SDG 15). Healthy soils perform well in all these functions simultaneously. However, the globally increasing demand for food, fiber, and bio-based products poses massive challenges to soil health. Minimizing trade-offs between biomass production and soil health requires systemic approaches to assessment and governance of sustainable soil management in agriculture and food systems. It provides interdisciplinary insights into key questions: What are the impacts of agricultural management practices on sustainability targets in specific geophysical and socio-economic contexts? What are the opportunities and risks of future trends such as climate change, digitalization, and emerging technologies for soil management and soil health? How can institutions and governance instruments be improved to enable decision makers to take action on sustainable soil management? The book was initiated in the frame of the National German research program ‘BonaRes—Soil as a sustainable resource for the bioeconomy’, and it is meant to trigger interdisciplinary



Order Your Print Copy

You can order print copies at

[www.mdpi.com/books/reprint/1989](http://www.mdpi.com/books/reprint/1989)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



### **Open Access**

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



### **Author Focus**

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



### **High Quality & Rapid Publication**

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



### **High Visibility**

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



### **Print on Demand and Multiple Formats**

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.