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Sean O'Hogain, Liam McCarton

A Technology Portfolio of Nature Based Solutions

Innovations in Water Management

- **Defines nature based solutions in terms of water source, contaminants, removal mechanisms and resource potential within the context of a Circular Economy**
- **Presents a technology portfolio of Nature Based Solutions collated from best practice within the European Innovation Action Group - NatureWat**
- **Offers a multidisciplinary approach to nature based solutions by bringing together social scientists, governance representatives and engineers**

This book aims to define the concept of Nature Based Solutions (NBS) by using case studies from members of the European Innovation Partnership (EIP) Water Action Group - NatureWat. NBS is defined and characterized in terms of water source, contaminants, removal mechanisms and resource recovery potential. The case studies presented illustrate the appropriateness of NBS promoting climate resilience. Readers will discover a technology portfolio based on a number of demonstration sites in the fields of climate change adaption, water and wastewater treatment, resource recovery and re-use, and restoring ecosystems to promote the use of nature based solutions. The chapters in the book present a multidisciplinary approach involving social scientists, governance representatives and engineers.

The first section of the book presents the background and objectives of the study, and how the action group aims to promote the use of nature based solutions through its diverse technology portfolio. Particular attention is given to the goals of finding cost-effective solutions for wastewater treatment, climate change mitigation, disaster risk reduction, flood protection, greening cities, degraded areas restoration and biodiversity preservation. A review of the relevant governing European legislation for NBS together with a brief investigation of water re-use applications is also provided. The book concludes by examining the barriers and limitations related to NBS for water resource management, and considering examples of non-European water re-use guidelines and applications.

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