

1. Record Nr.	UNINA9910743340903321
Titolo	Blue-Green Infrastructure Across Asian Countries : Improving Urban Resilience and Sustainability / / edited by Shalini Dhyani, Mrittika Basu, Harini Santhanam, Rajarshi Dasgupta
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-16-7128-1 981-16-7127-3
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (520 pages)
Disciplina	737
Soggetti	Ecology Urban ecology (Biology) Biotic communities Population biology Ecology - Methodology Urban Ecology Community and Population Ecology Ecological Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Mainstreaming Blue-Green Infrastructure for improving urban resilience and sustainability in the warming world -- Chapter 2. Regional trends in Social-Ecological Technological (SET) approaches to Sustainable Urban Planning: Focus on Asia -- Chapter 3. A Risk Assessment Approach to Urban Resilience -- Chapter 4. Promoting Blue Green Infrastructure in Urban Spaces through Citizen Science initiatives -- Chapter 5. Is Ensuring the Sustainable Implementation of BGI Possible? System Thinking of Urban Rivers as Social-Ecological Systems -- Chapter 6. Understanding Blue-Green Infrastructure through Spatial Maps: Contribution of Remote Sensing and GIS Technology -- Chapter 7. Cities and Biodiversity: Hidden Connections Between the Built Form and Life -- Chapter 8. Assessing ecological risks of urban air and water environment to analyse the scenarios for mainstreaming Nature-based Solutions: a case study of Bengaluru city,

India -- Chapter 9. Do people appreciate economic value of water in Baku city of Azerbaijan? -- Chapter 10. Homegardens as sustainable urban agroforestry systems to promote household well-being in Kandy, Sri Lanka -- Chapter 11. Opportunities for Improving Urban Tree Cover - A Case Study in Kochi -- Chapter 12. Changing people-nature linkages around green infrastructure in rapidly urbanizing landscapes: the case of a protected area in Bengaluru Metropolitan Region of South India -- Chapter 13. Remodelling Urban Spaces in the Light of Blue-Green Infrastructure: A Case Study of Guwahati, India -- Chapter 14. Nature-based Solutions for the Restoration of the Abukuma River Basin (Japan) after Typhoon Hagibis -- Chapter 15. Nature based solutions (NbS) for sustainable development of the resource-base and ecosystem services of marine and coastal ecosystems of India -- Chapter 16. Physical Vulnerability Assessment to Flooding of Residential Houses along the Coastal Areas in Sta. Rosa City, Laguna, Philippines -- Chapter 17. The significance of ancient water systems and the sacred groves in the landscape of Badami, Karnataka - A geospatial study -- Chapter 18. Urban Sustainability and Resilience building: Blue-Green infrastructure for air pollution abatement and realising multiple co-benefits -- Chapter 19. Disaster Risks and Resilience of Urban Bangladesh: Role of Blue Green Infrastructure -- Chapter 20. Endorsing City Biodiversity Index (CBI): Assessing Ecosystem Health in urban sprawls and Eco-DRR inclusive urban planning -- Chapter 21. Greenhouse Gas Mitigation by Integrating Waste Treatment System towards Low-Carbon City in Vietnam -- Chapter 22. The roles of non-governmental actors in facilitating urban blue-green infrastructures: A comparative review of the community initiatives in Taipei City, Taiwan -- Chapter 23. Mainstreaming blue-green infrastructure in policy and planning for urban resilience in the global south: promises and pitfalls.

Sommario/riassunto

This edited book discusses Blue-Green Infrastructure (BGI) from conception to implementation in building resilience and urban sustainability. The book emphasizes on infrastructures, institutions, and perceptions as three main pillars of implementing and managing successful BGI, with a special focus on Asia. The book highlights concepts as well as field-based experiences from different parts of Asia by experts, with a special focus on advances and opportunities in advancing BGI, challenges and constraints, followed by case studies on BGI mainstreaming. It addresses sustainable water management, multiscale environmental design, environmental risk assessment, and finally understanding policy implications and concerns for BGI mainstreaming in growing urban sprawls of the region. There has been growing global momentum and recognition of Blue-Green Infrastructure (BGI) as a multifunctional Nature-based Solution (NbS) with multiple co-benefits. There is strong evidence from many urban centres of Europe, USA, China, and South Africa demonstrating that mainstreaming BGI can help in addressing growing vulnerability of urban areas by ensuring safety, resilience, and sustainability for urban residents in the warming world. This book is a timely contribution for researchers, students, scholars, urban planners, consultants, and policy makers in the fields of environment, resilience, urban planning, climate adaptation, and sustainability science. .
