

UNU-CRIS Institute on Comparative Regional Integration Studies UN Decade of Ocean Science for Sustainable Development (2021 – 2030).



Advancing Ecosystem Restoration for Climate Adaptation: Unleashing Nature-Based Solutions in Urban Planning and SDG Implementation



LIFE LATE STadapt international workshop

"Planning and operationalizing green infrastructure and ecosystem service concepts for improving urban climate resilience"

13-14 June 2023, Riga, Latvia

Prof. Dr Nidhi Nagabhatla Senior Fellow and Cluster Coordinator and – Nature, Climate and Health United Nations University - CRIS & <u>Adj Associate Prof</u>. McMaster University, Canada

MILLENNIUM ECOSYSTEM ASSESSMENT

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Guide to the Millennium Assessment Reports

Full Reports



The Working Group assessment reports are between 500-800 pages in length, with a volume of summaries of about 120 printed pages. Learn more

Current States & Trends Scenarios Policy Responses Multiscale Assessments

Statement of the MA Board



Directors has developed an interpretation of the key messages to emerge from the assessment, entitled Living Beyond Our Means:

Natural Assets and Human Well-Being.

E Learn more Download the Statement

About the MA Board of Directors



Synthesis Reports

The first set of assessment reports consists of an overall synthesis and 5 others that interpret the MA findings for specific audiences. Learn more

Overall synthesis Biodiversity Desertification Business & Industry Wetlands and Water E Health

A Framework for Assessment



and Island Press published Ecosystems and Human Wellbeing: A Framework for Assessment. This volume lays out the assumptions, processes and

In late 2003, the MA

parameters that were used in the MA. Learn more



About the Millennium Assessment

The Millennium Ecosystem Assessment assessed the consequences of ecosystem change for human wellbeing. From 2001 to 2005, the MA involved the work of more than 1,360 experts worldwide. Their findings provide a state-of-the-art scientific appraisal of the condition and trends in the world's ecosystems and the services they provide, as well as the scientific basis for action to conserve and use them sustainably. Read More

Useful Links



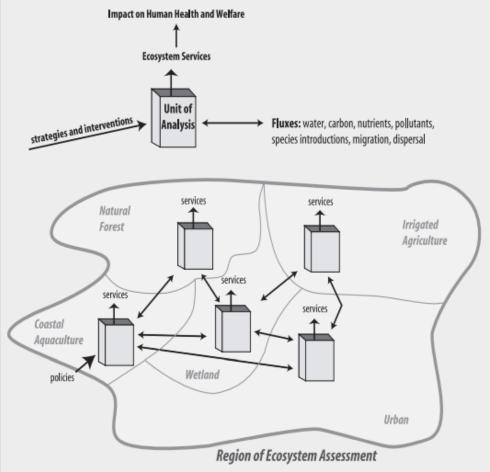
Also on This Site

Directory of Authors Slide Presentations

BOX 2.3 Analysis of Ecosystem Services

Any region of Earth produces a set of services that in turn influences human wellbeing. It also receives flows of energy, water, organisms, pollutants, and other materials from adjacent regions and releases similar materials into those regions. Various strategies and interventions influence the quantity and quality of the services provided.

An ecosystem is typically composed of a number of different regions, such as forest, agriculture, and urban areas, each of which produces a different bundle of services. In an ecosystem assessment, both the production of services from each area and the flows of materials between areas must be assessed.



https://www.millenniumassessment.org/documents/document.300.aspx.pdf

https://www.millenniumassessment.org/en/index.html

SUSTAINABLE DEVELOPMENT GOALS (SDGs) 17 goals, 169 targets, several indicators per target NO Poverty GOOD HEALTH AND WELL-BEING GENDER EQUALITY CLEAN WATER AND SANITATION 2 ZERO HUNGER QUALITY EDUCATION 5 6 3 4 DECENT WORK AND ECONOMIC GROWTH INDUSTRY, INNOVATION AND INFRASTRUCTURE **10** REDUCED INEQUALITIES SUSTAINABLE CITIES AFFORDABLE AND

Adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future

15 LIFE ON LAND

13 CLIMATE ACTION

https://sustainabledevelopment.un.org

LIFE BELOW WATER



PEACE, JUSTICE AND STRONG

NSTITUTIONS

RESPONSIBLE CONSUMPTION

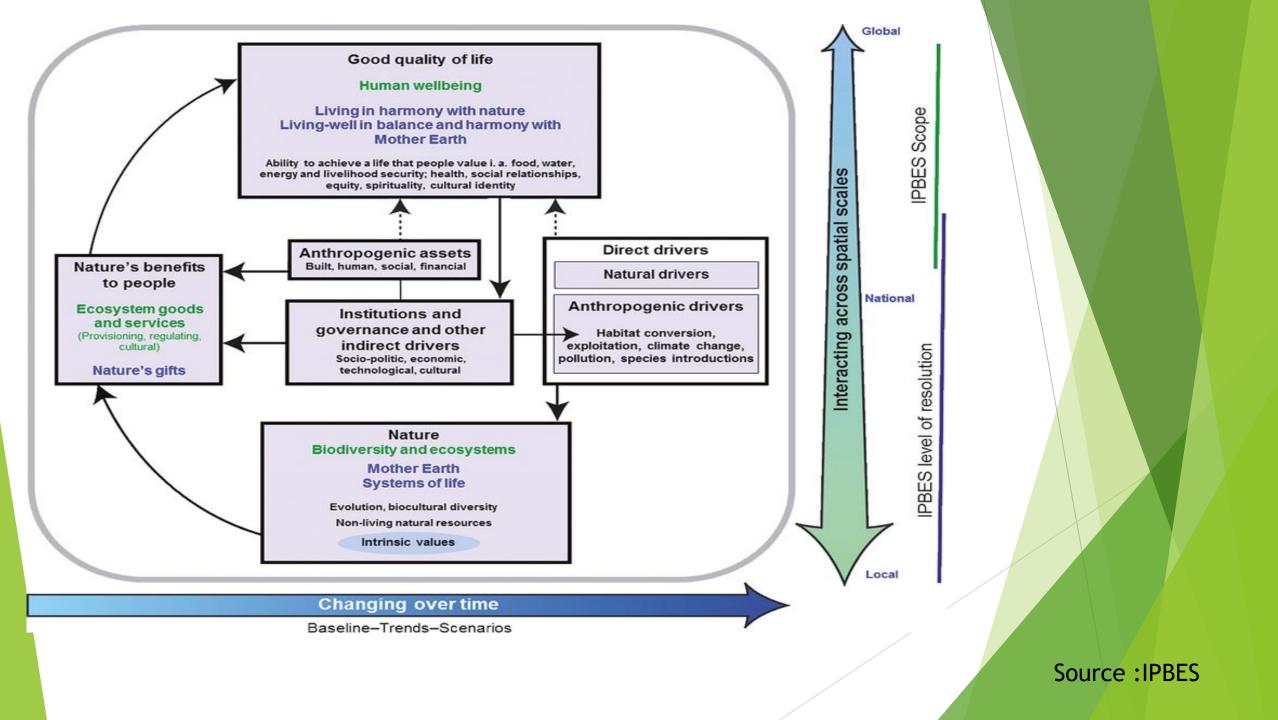
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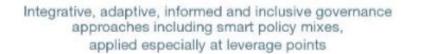
The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)



health, water, cities, climate, oceans, and land'.

https://www.ipbes.net/







- NS
- Incentives and capacity building;
- Cross-sectoral cooperation
- Pre-emptive action
- Decision-making in the context of resilience and uncertainty
- Environmental law and implementation

LEVERAGE POINTS

INDIRECT

DRIVERS

Demographic

and

sociocultural

Economic and

technological

Institutions and

governance

Conflicts and

epidemics

aviours

£

- Embrace diverse visions of a good life
- Reduce total consumption and waste
- · Unleash values and action
- Reduce inequalities
- · Practice justice and inclusion in conservation
- Internalize externalities and telecouplings
- Ensure technology, innovation and investment
- Promote education and knowledge generation and sharing

lterative learning loop

DIRECT

DRIVERS

Land/sea-use

change

Direct

exploitation

Climate change

Pollution

Invasive species

Others

Human activities

Examples:

Fisheries

Agriculture

Energy

Forestry

Mining

Tourism

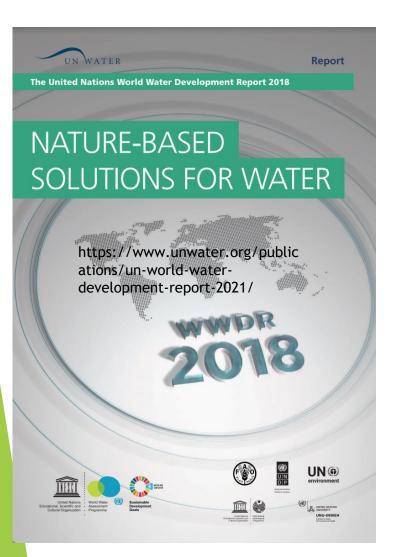
Infrastructure

Conservation etc.

IPBES 2019 Global Assessment Report Summary for Policy Makers



Literature and Global Reports on NBS increasing reflecting on urban ecosystems, including the UN World Water Development Reports



Environmental Contamination Remediation and Management

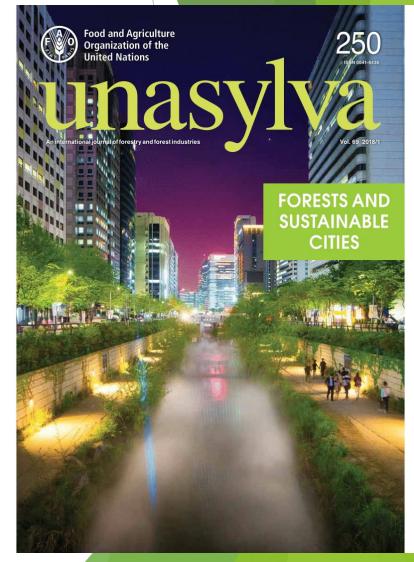
Nidhi Nagabhatla Christopher D. Metcalfe *Editors*

Multifunctional Wetlands

Pollution Abatement and Other Ecological Services from Natural

Springer

- The Role of Constructed Wetlands in Creating Water Sensitive Cities
- An Investment Strategy for Reducing Disaster Risks and Coastal Pollution Using Nature Based Solutions





Governance & decision-making

Resilient Sydney

A program for metropolitan Sydney to build the capacity of individuals, communities, institutions, businesses and systems to survive, adapt and thrive in the face of chronic stresses and acute shocks.

https://www.citvofsvdnev.nsw.gov.au/governance-decision-making/resilient-svdnev#main-content

Environmental action

Greening and nature

We're working to create an urban forest and support biodiversity to provide demonstrated benefits of plants and animals in our city.

Emerging Pathways to Building Resilience (Ecological, Climate, Socioeconomic) at Global and Regional Levels



Figure 2. Restorative management activities arrayed along a continuum of ecological recovery





Food and Agriculture Organization of the United Nations



Enhancing capacities for effective ecosystem restoration throughout the Decade and beyond: The Task Force on Best Practices

United Nations Decade on Ecosystem Restoration 2021-2030

THE TASK FORCE ON BEST PRACTICES IN A NUTSHELL

A collaborative effort on knowledge dissemination and capacity development To date, 241 members from 100 organizations, incl.:













Food and Agriculture Organization of the United Nations



PRINCIPLES FOR ECOSYSTEM RESTORATION TO GUIDE THE UNITED NATIONS DECADE 2021-2030

TEN PRINCIPLES THAT UNDERPIN ECOSYSTEM RESTORATION



GLOBAL CONTRIBUTION



ADDRESSES CAUSES OF DEGRADATION



BROAD ENGAGEMENT



KNOWLEDGE INTEGRATION



MONITORING AND MANAGEMENT



MANY TYPES OF ACTIVITIES



MEASURABLE GOALS



POLICY INTEGRATION



BENEFITS TO NATURE AND PEOPLE



LOCAL AND LAND/ SEASCAPE CONTEXTS



https://www.decadeonrestoration.org/

PAKISTAN 2021 Food and Agricultur Drganization of the

ECOSYSTEM Restoration Playbook

A PRACTICAL GUIDE TO HEALING THE PLANET

Developed for World Environment Day 2021 To kick off the United Nations Decade on Ecosystem Restoration (2021-2030)

REIMAGINE

ESTORE



- Taking action such as starting or support an on-the-ground restoration project
- Making smart choices like buying only sustainable products and changing diets
- Raising your voice in support of ecosystem conservation and restoration

The 21-page guide describes approaches to restoring eight key types of ecosystem – forests, farmlands, grassland and savannahs, rivers and lakes, oceans and coasts, forms and cities, peatlands, and mountains. It also lays out how all parts of society – from individuals and community groups to businesses and governments – can become part of #GenerationRestoration, a global movement to restore ecosystems everywhere for the good of people and nature.

English
 Arabic
 Chinese
 French
 Portugues
 Russian
 Spanish

DEVELOPING CAPACITIES OF INDIVIDUALS AND ORGANIZATIONS ACROSS SECTORS AND SCALES

1) Financing



2) Inclusive stakeholder engagement







4) Policy



1. Standards of Practice for **Ecosystem Restoration (SoPs)**

2. Capacity, Knowledge and Learning Action Plan

3. Framework for Disseminating **Good Practices**

Ten principles for ecosystem restoration Stock-taking of existing SoPs Targeted consultations

- Gaps identified through capacity needs assessment
- Stock-taking of knowledge products and capacity development initiatives
- **Targeted consultations**

Building on:

- Template for systematic collection of good practices aligned with ten principles for ER
- Practices hosted on FERM
- Link with practices collected by other allied platforms (Panorama Solutions, WOCAT and GoProFor)



Community Organizing Toolkit on Ecosystem Restoration





These questions will play a big role in determining how to shape your action and whom to engage with as you take steps towards organizing and reaching your wider restoration goals.

WHAT IS MY MOTIVATION?

WHAT ARE THE SOCIAL BENEFITS OF MY ACTION?

IS IT POSSIBLE THAT MY ACTION NEGATIVELY IMPACTS OTHERS?



_

WANT TO LEARN MORE?

EXPLORE OUR FOUNDING 50 INITIATIVES

∃↓ Sort	50 Initiatives		
Ecosystem type 🗸	Region 🗸	Additional Benefits \checkmark	Hectares 🗸



15 million mangrove trees to restore Nokoué Lake



Africa Wood Grow preventing erosion on Kenyan Farms

VISIT



Amazon connectivity a boon for endemic birds and communities



Appalachian initiative converts coal mines to carbon sinks

- 0 NORTH AMERICA
- Ø FORESTS

2,000 HECTARES



Biodiversity hotspot restoring crucial Amazonian ecosystems 0 LATIN AMERICA AND THE CARIBBEAN Ø FORESTS

271 HECTARES

VISIT



5,000 HECTARES

VISIT





environment

programme

GLOBAL CONSULTATION: STANDARDS OF PRACTICE TO GUIDE ECOSYSTEM RESTORATION (SOPS)

Image by: Sean Paul Kinnear on Unsplash

EN

Add your voice to the standards of practice to guide ecosystem restoration!



English 🗸 🛛 < 🔍

About FAO	ics -> Members -> Publications ->
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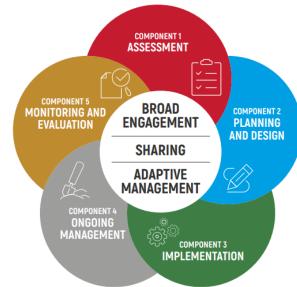


Standards of practice to guide ecosystem restoration: A contribution to the United Nations Decade on Ecosystem Restoration

Summary report

Figure 3. The five components of the restoration process along with cross-cutting subcomponents that apply throughout the restoration process

Download PDF

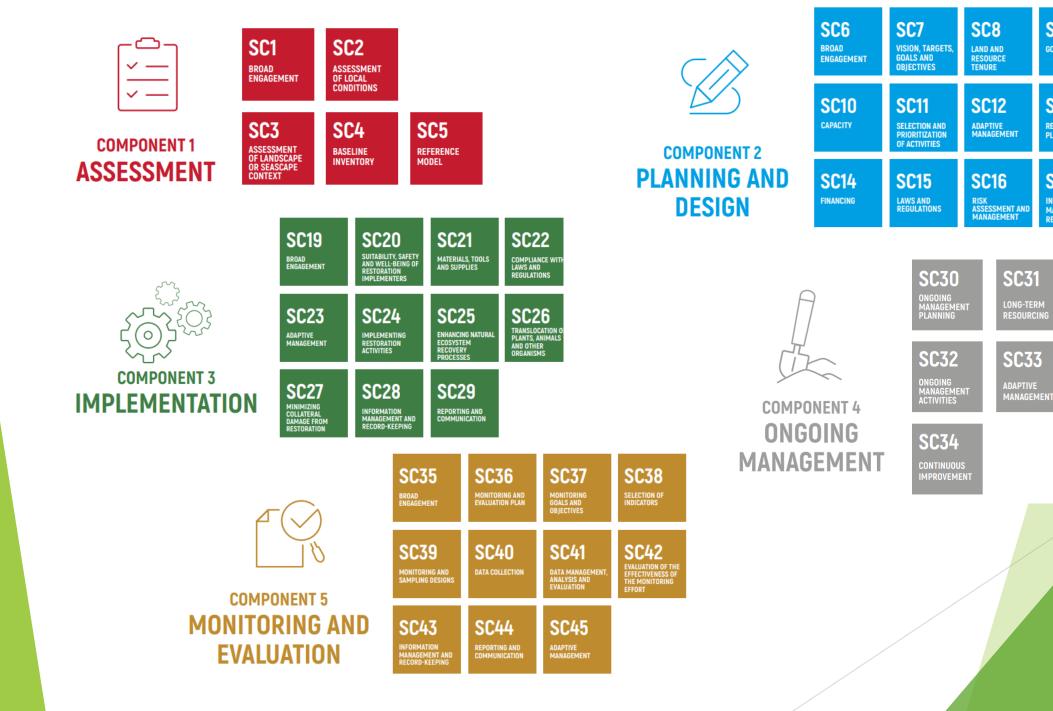


Year of publication 2023

Place of publication Rome, Italy

The United Nations Decade on Ecosystem Restorcritical need to prevent, halt and reverse the degi degraded ecosystems is of paramount importanc ecosystem goods and services, climate-change m

partners, through a consultative process, offered ten principles for ecosystem restoration to create a shared



SC9

GOVERNANCE

SC13

SC17

INFORMATION MANAGEMENT AND RECORD-KEEPING

RESTORATION PLAN

SC18

REPORTING AND COMMUNICATION

IUCN

IUCN Global Standard for Nature-based Solutions

A user-friendly framework for the verification, design and scaling up of NbS

First edition



Nature-Oriented Paradigms for Urban Water Security: Perspective on Framework, Scale, and Sector

<text><text><text><text><text>

Authors: Negin Balaghi-Ficzkowski, Nidhi Nagabhatla, Tariq A. Deen

Publisher: Springer Singapore

Published in: Advances in Water Resources and Transportation Engineering

🔒 » Get access to the full-text

Abstract

Water security in urban areas is threatened by a multitude of direct and indirect drivers. On the one hand, the demand for water is increasing on a daily basis as the urban population and lifestyle needs increase; on the other hand, events such as floods, tropical cyclones, and other natural hazards result in disruption of water provisioning systems and processes. Additionally, climate change impacts such as heat waves and sea-level rise affect the sustainability of water supplies in urban areas.

Water Security & Peace
x

Aregional Trends in Social-Ecolog: x

+

C

Bink.springer.com/chapter/10.1007/978-981-16-7128-9_2 **SPRINGER LINK**Find a journal

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Blue-Green Infrastructure Across Asian Countries pp 25–58

Cite as

Home > Blue-Green Infrastructure Across Asian Countries > Chapter

Regional Trends in Social-Ecological-Technological (SET) Approaches to Sustainable Urban Planning: Focus on Asia

Swetha Thammadi ^(C), <u>Nidhi Nagabhatla</u>, <u>Sateesh Pisini</u>, <u>Stephanie Koza</u> & <u>Ashraf Mahmood</u>

Chapter First Online: 25 March 2022

515 Accesses

NBS offers innovative thinking to move beyond business-as-usual towards addressing a variety of water challenges and delivering additional ecological and socio-economic benefits- covering many aspects of sustainable development.

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sDGacademy



Funded by the European Union

UNU Taking the Lead on Building Community Resilience Reflecting on the Role of NBS

https://cris.unu.edu/building-climate-resilience-lessons-2021-floods-western-europe

Instant Ballion chieve sty

GE) UNU

Building Climate Resilience: Lessons from the 2021 Floods in Western Europe

> Building Climate Resilience: Lessons from the 2021 Floods in Western Europe

Better understanding current and future risks

Strengthening emergency response preparedness and coordination

Insuring losses

Strengthening risk governance (multi-level, cross-border)

Developing transformative recovery pathways from extreme flood events



Bluebelts are ecologically rich and cost-effective drainage systems that naturally handle the runoff precipitation that falls on our streets and sidewalks. Originally implemented in Staten Island, the program preserves natural drainage corridors including streams, ponds, and wetlands, and enhances them to perform their functions of conveying, storing, and filtering runoff precipitation or stormwater.

An excellent mechanism for reducing urban flooding and improving the health of local waterways, Bluebelts also provides open green space for their communities and diverse habitat for wildlife since they are not constricted by closed pipes or underground infrastructure like traditional storm sewers. As New York City prepares for rising sea levels and heavier rains due to climate change, Bluebelts offers a natural and effective solution for stable and sound stormwater management.

Green Infrastructure

Combined Sewer Overflows

Municipal Separate Storm Sewer System

Green Infrastructure

The Bluebelt Program



Green infrastructure collects stormwater from streets, sidewalks, and other hard surfaces before it can enter the sewer system or cause local flooding. By reducing the amount of stormwater that flows into the Sewer System, green infrastructure helps prevent Sewer Overflows and improves the health of local waterways.



From Rain Gardens, infiltration basins, and green roofs to playgrounds with underground detention systems, learn about the Types of Green Infrastructure you might come across in NYC.



We have successfully built thousands of Green Infrastructure installations across NYC. View our Interactive Map of Green Infrastructure Projects to see what's happening in your neighbornood.

How You Can Protect our Bluebelts and Waterways

- Discharge your laundry water into a sanitary sewer, if possible. Laundry water pollutes the Bluebelt.
- · Check your car for leaks. Take used motor oil and antifreeze to local gas stations for recycling.
- Use biodegradable detergents when washing your car. Wash it in a location where you can minimize the flow of detergents into storm drains.
- · Direct downspouts away from paved surfaces.
- Clean up after your pets. Pet waste contains harmful nutrients and pathogens that can contaminate surface water.
- · Dispose of yard waste properly. The NYC Department of Sanitation collects yard waste for composting.
- · Follow directions closely when using fertilizers and pesticides to avoid polluting run-off.

If you see illegal dumping in progress, call **311** or fill in this online form. For more information on ways you can protect our waterways from harmful subtances, visit Safe Disposal of Harmful Products.





We provide financial incentives for installing green infrastructure on private property. Learn



Green infrastructure protects New York Harbor and and reduces local flooding. Take a Harbor



Press release | 16 Nov, 2022

Egyptian COP27 Presidency, Germany and IUCN announce ENACT Initiative for Nature-based Solutions

S harm el-Sheikh, Egypt, 16 November 2022 (IUCN) - The ENACT initiative, which will coordinate global efforts to address climate change, land and ecosystem degradation, and biodiversity loss through Nature-based Solutions (NbS), was launched today as part of the COP Presidency's official programme. The initiative will also produce an annual State of Nature-based Solutions report to update COP28 and subsequent meetings on progress in implementing NbS commitments.

COP 15 Events Focus on Sustainable Ocean Management, NbS for Climate Action

SDG KNOWLEDGE HUB

A project by JISE

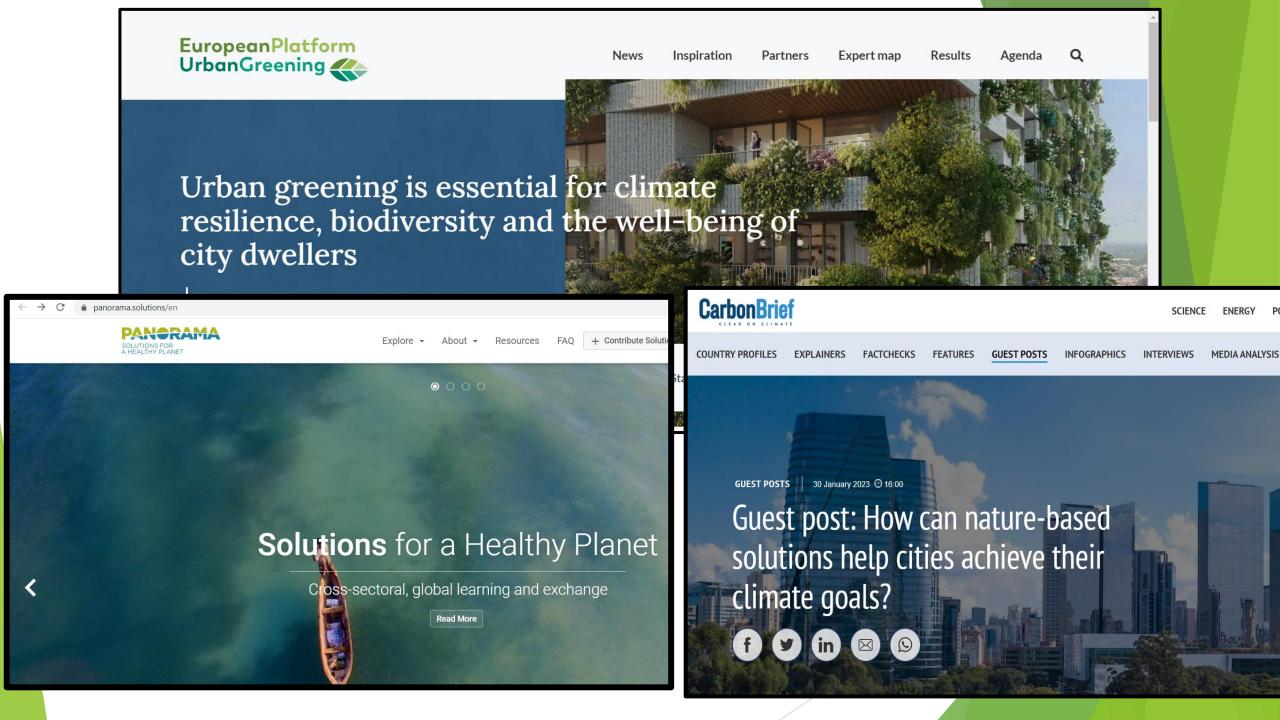
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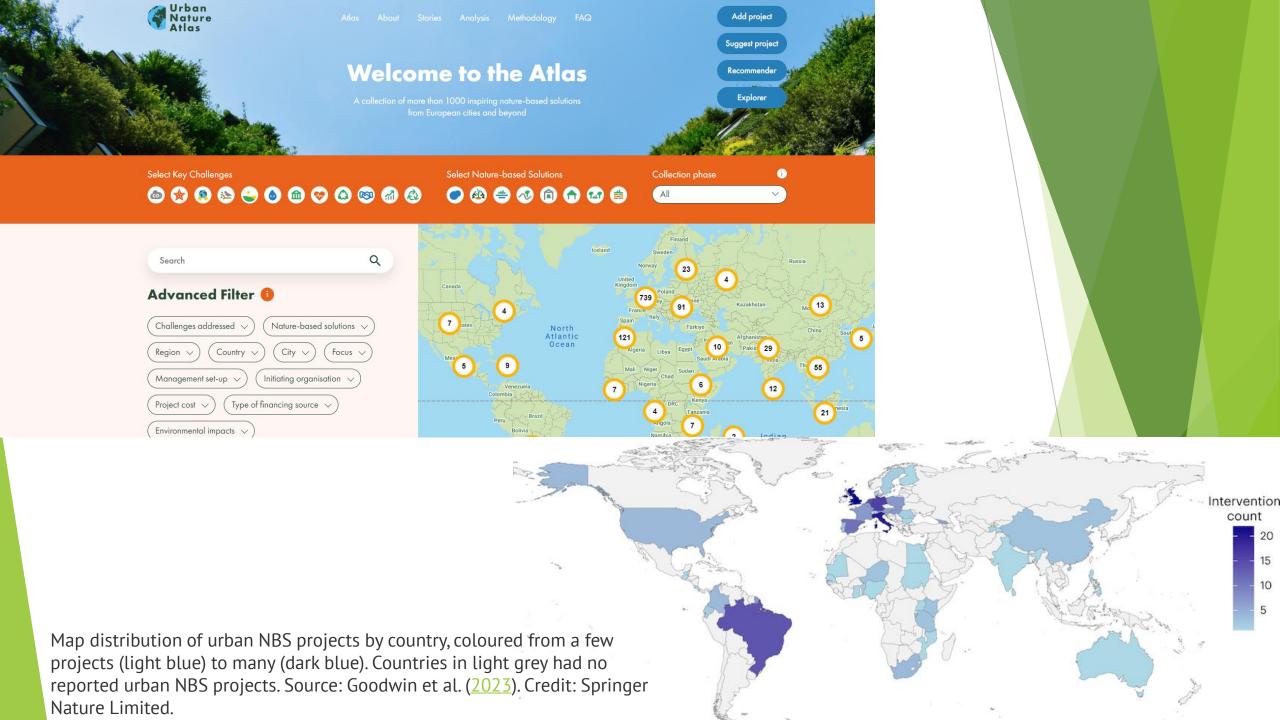




Restoring ecosystems for people, nature and the climate







ICE PRESENTS

SUSTAINABLE ENGINEERING IN ACTION

https://edition.pagesuiteprofessional.co.uk/html5/reader/product ion/default.aspx?pubname=&edid=efdf6 aa1-81e0-4b29-b8d7-e08945023de5 UN75: Sustainable Engineering in Action, was launched by the Institution of Civil Engineers (ICE UK) on 16 November 2020.

Interlinked thinking

The United Nations University's collaborative research contributes to resolving the global problems of human survival, development and welfare that are the concern of the UN and its Member States, as its new report on water and migration exemplifies

Do migrants willingly choose to flee their homes, or is migration the only option available? There is no clear, one-size-fits-all explanation for a decision to migrate – a choice that will be made today by many people worldwide, and by an ever-rising number in years to come because of a lack of access to water, climate disasters, a health crisis and other problems.

Data are scarce on the multiple causes, or "push factors", limiting our understanding of migration. What we can say, though, is that context is everything. The United Nations University (UNU) – a global think tank and postgraduate teaching organisation headquartered in Japan – is among the organisations looking for direct and indirect links between migration and the water crisis. This is a problem that has different faces — unsafe water in many places, chronic flooding or drought in others.

The challenge is separating those push factors from the social, economic and political conditions that contribute to the multidimensional realities of vulnerable migrant populations, all of them simply striving for dignity, safety, stability and sustainability in their lives.

A new UNU report, "Water and Migration: A Global Overview", from the UNU Institute for Water, Environment and Health (UNU-INWEH), offers insights into water and migration interlinkages, and suggests how to tackle existing gaps and needs. Its information can be understood easily by stakeholders and proposes ideas for better informed migration -related policymaking, including a three-dimensional framework applicable by scholars and planners at multiple scales and in various settings.

The report also describes some disconforting patterns and trends. By 2050, a combination of water- and climate-driven problems and conflicts will force 1 billion people to migrate, not by choice but as their only option. Links to the climate change and water crises are becoming more evident in a dominant trend: rural urban migration.

That said, there is a severe lack of quantitative information and understanding regarding direct and indirect water and climaterelated drivers of migration, limiting effective management options at local, national, regional and global scales. Global agreements, institutions and policies on migration are concerned mostly



nature sustainability		View all journals	Search Q Log in
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nature > nature sustainability > analyses > article	NbS approaches specifically for climate	change adap	tation

across 216 urban interventions and 130 cities worldwide

Analysis | Published: 30 January 2023

Global mapping of urban nature-based solutions for climate change adaptation

Sean Goodwin 🖾, Marta Olazabal, Antonio J. Castro & Unai Pascual

Nature Sustainability 6, 458–469 (2023) Cite this article

3792 Accesses 2 Citations 59 Altmetric Metrics

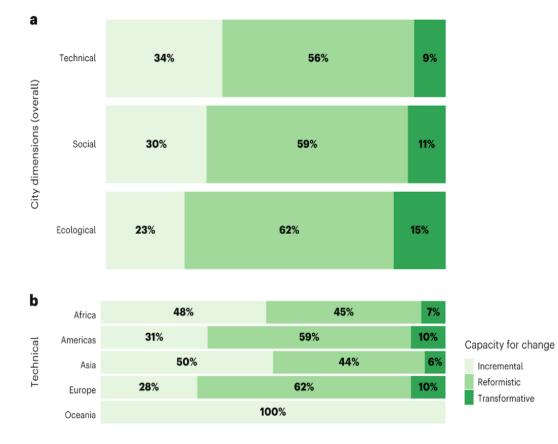
Abstract

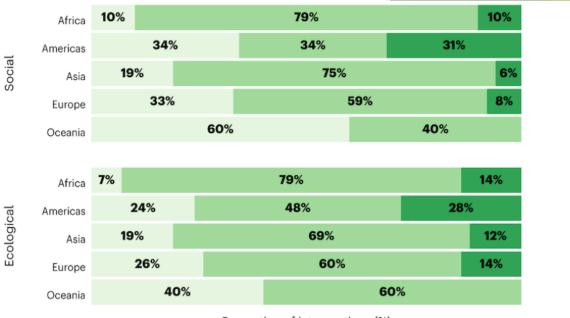
Many cities around the world are experimenting with nature-based solutions (NbS) to address the interconnected climate-, biodiversity- and society-related challenges they are facing (referred to as the climate-biodiversity-society, or CBS, nexus), by restoring, protecting and more sustainably managing urban ecosystems. Although the application of urban NbS is

How NBS are designed? Socially Just Outcomes?

The heart of the controversy around this term goes way beyond the words alone, though. Critics of the term NBS question why it has replaced "ecosystem-based approaches", when the latter term was already <u>formally defined</u> (pdf) under UN processes more than a decade ago.

https://www.carbonbrief.org/guest-post-how-cannature-based-solutions-help-cities-achieve-theirclimate-goals/





Proportion of interventions (%)

The distribution of projects we categorised as having the capacity to produce shorter-term (incremental, light green), mediumterm (reformistic, medium green) or longer-term (transformative, dark green) change, both overall (a) and across the regions studied (b). The dimensions of change are technical, social and ecological change. Source: Goodwin et al. (2023). Credit: Springer Nature Limited.





ABOUT MEMBERSHIP NETWORKING GLOBAL POLICY RESOURCES CERTIFICATION RESTORA

Latest News: Webinars

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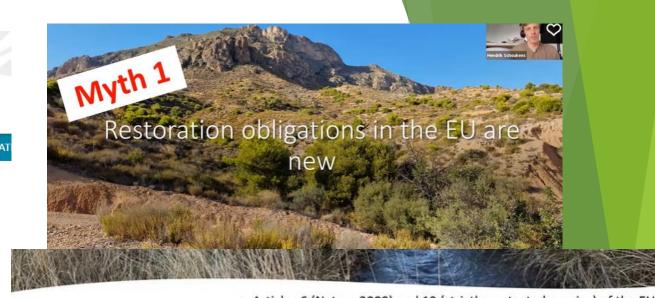
Misconceptions about the Nature Restoration Law debunked by the SER Europe Legal Working Group

Wednesday, June 7, 2023

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https://www.ser.org/news/642622/Misconceptions-about-the-Nature-Restoration-Law-debunked-by-the-SER-Europe-Legal-Working-Group.htm





- Articles 6 (Natura 2000) and 12 (strictly protected species) of the EU Habitats Directive → Favourable Conservation Status (but with no strict deadline)
 - Articles 4 and 11 of the EU Water Framework Directive → Good chemical and good ecological status (deadline but limited actions for river restoration)
 - Article 13 of the EU Marine Strategy Framework Directive → Good Environmental Status (limited focus on specific marine habitats)

ABOUT US $\, \sim \,$ What we do $\, \sim \,$ campaigns $\, \sim \,$ latest $\, \sim \,$

Q

More than 100 corporations make the business case for the new law to restore nature

CONTACT US ~

Posted on 12 June 2023

Positive

duties

restoration

More than 100 businesses from Nestlé to Unilever and IKEA warn MEPs not to betray farmers facing the unprecedented collapse of our ecosystems and climate change.

More than 100 of Europe's biggest businesses spanning consumer, finance, and energy, including Nestlé. Unilever, and IKEA are speaking out today to save the Nature Restoration Law on business grounds. The ENVI committee (European Parliament's Committee on Environment, Public Health and Food Safety) will vote on this



The new restoration target has the potential to enable forceful actions that utilise nature-based solutions for

Winter School

UN Global Sustainable Solutions Winter School

2022



vEGU21: Gather Online | 19–30 April 2021

PROGRAMME ▼ EXHIBITION ▼ ABOUT ▼ ⊂>] ▼

[Back] [Session ITS2.14/HS12.2]

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General Assembly 2021

CC ①

Differences in Nature Based Solutions perception and implementation strategies across academic disciplines, an empirical analysis

Marta Vicarelli 1 and Nidhi Nagabhatla^{2,3}

¹University of Massachusetts Amherst, School of Public Policy, Economics, United States of America (mvicarelli@econs.umass.edu) ²United Nations University, UNU-INWEH ³McMaster University, Canada

This study investigates using a survey how disciplinary scholars perceive Nature Based Solutions (NBS) and how they differ in their NBS implementation approach at the local level. Respondents participated in the 2020-2021, a ten-week course (online from Dec. 3, 2020, to Jan. 26, 2021) with a focus on Disaster Risk Reduction and Water Security. Supported by the United Nations Environmental Program and the Partnership for Environment and Disaster Risk Reduction

Explains how disciplinary scholars perceive NBS and explore differences in strategies and priorities while implementing NBS within communities. The results of the survey offer lessons about opportunities and possible challenges of interdisciplinary collaborations when implementing NBS.

Nature-based Solutions for Disaster and Climate Resilience

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