

Date	Title	Venue	Audience
12.09.	Nature-Based Solutions for Europe (with the World Bank)	Crisis Room + online	ECHO/COM
19.09.	Capacity Building Community of Practice Meeting	ECHO	ECHO/COM
26.–27.09.	Evidence for Policy in DRM Summer School	Vienna, Austria	ECHO/COM + MS/PS + external
03.10.	Info Session on DG ECHO's capacity building projects	ERCC Auditorium + online	ECHO/COM
15./16.10. (TBC)	preparEU focus group on risk awareness training curriculum	Online	ECHO/COM + external
22.10.	Technical Workshop on Artificial Intelligence in DRM	Charlemagne + online	ECHO/COM + MS/PS
12.–13.11.	Capacity Building - Investing in DRM Workshop	Borschette	ECHO/COM + external
15.11.	Global Rapid post-disaster Damage Estimation GRADE workshop (with the World Bank)	ERCC Library Room	ECHO/COM + MS/PS + projects (TBC)



NATURE-BASED SOLUTIONS FOR CLIMATE RESILIENCE









Brussels, 12th September 2024





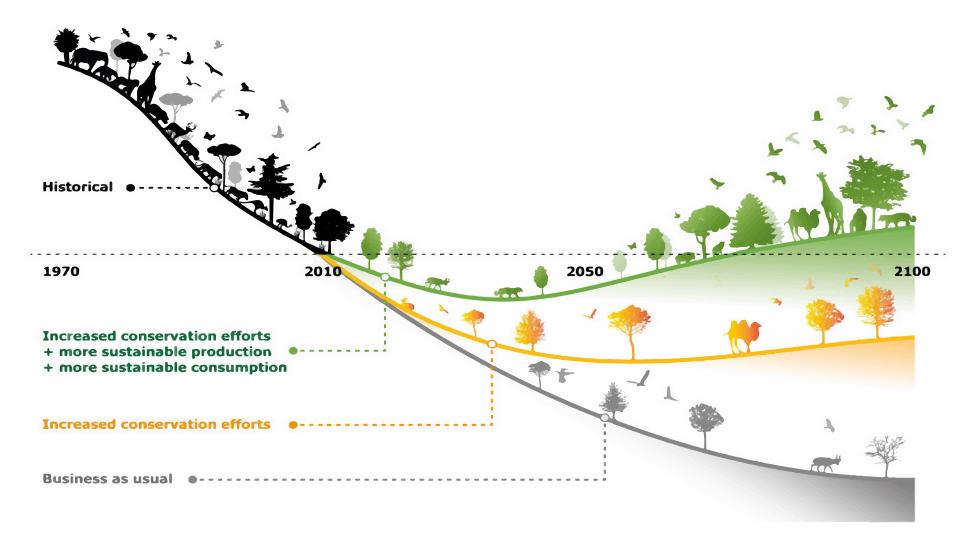
Google Earth Timelapse Cairo And New Cairo City, Egypt 1984

CHERT

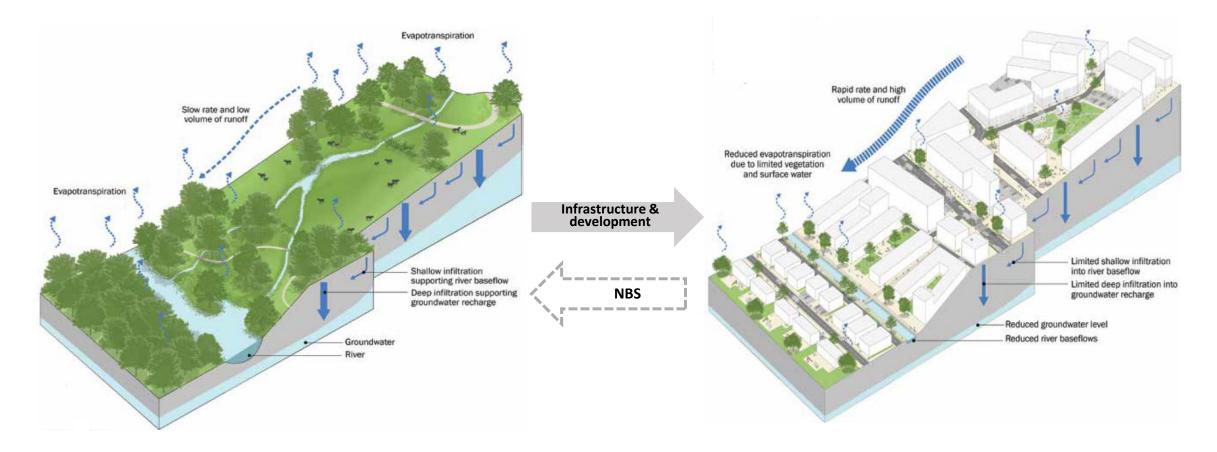
Source: Gallup



BENDING THE CURVE OF BIODIVERSITY LOSS



NBS – Bringing Nature back in Infrastructure, Policy and Planning



The UN Environment Assembly has adopted the definition of NBS as "actions to protect, conserve, restore, sustainably use and manage natural or modified terrestrial, freshwater, coastal and marine ecosystems which address social, economic and environmental challenges effectively and adaptively, while simultaneously providing human well-being, ecosystem services, resilience and biodiversity benefits".

ource: Biophilic

NATURE-BASED SOLUTIONS AT DIFFERENT SCALES



Pocket parks

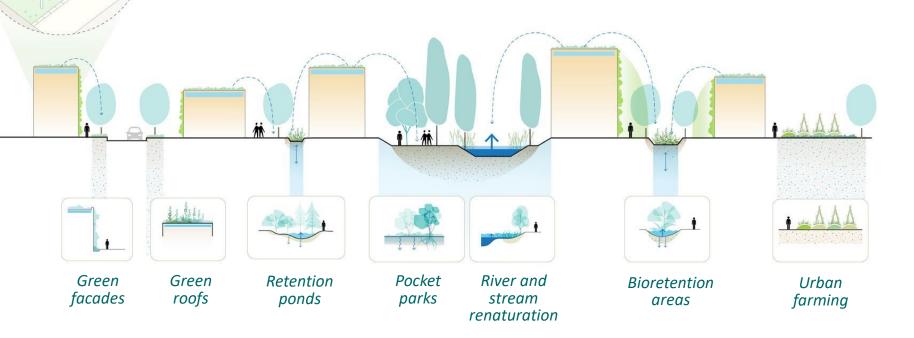


Bioretention areas



Urban farming

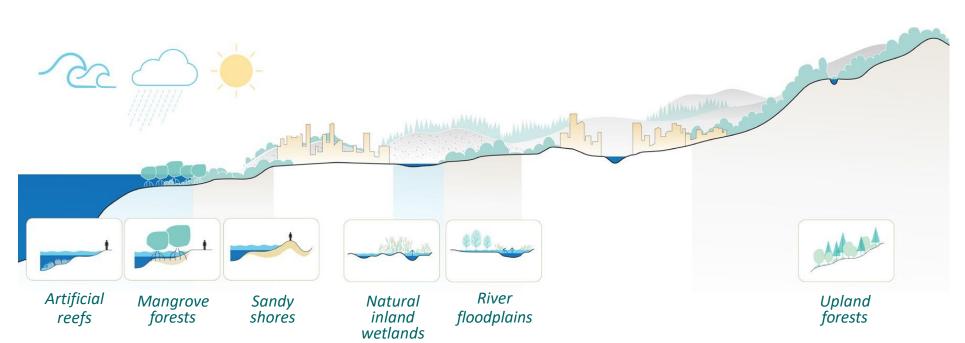




World Bank, 2021. A Catalogue of Nature-Based Solutions for Urban Resilience.

NATURE-BASED SOLUTIONS AT DIFFERENT SCALES

...TO NATURE-BASED SOLUTIONS AT LANDSCAPE SCALE





Upland forests



River floodplains



Natural Inland Wetlands

INTEGRATING NBS WITH GRAY INFRASTRUCTURE

Carbon sequestration

Cooling effect

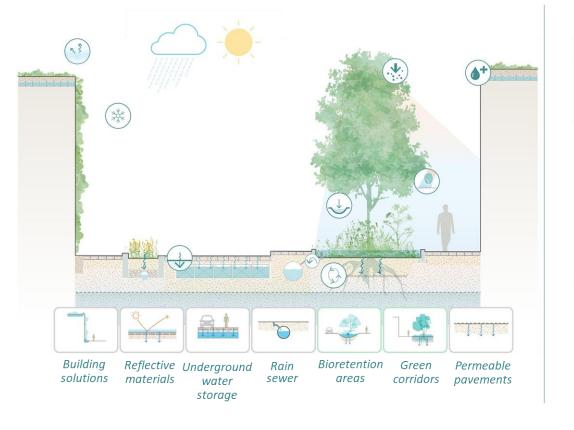
Shade

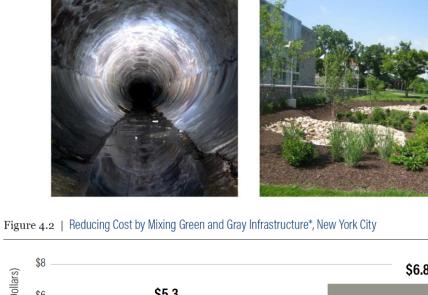
reuse

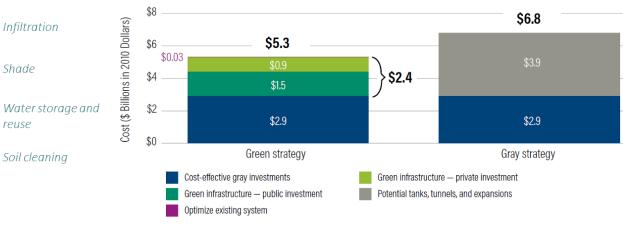
Water collection

Evapotranspiration

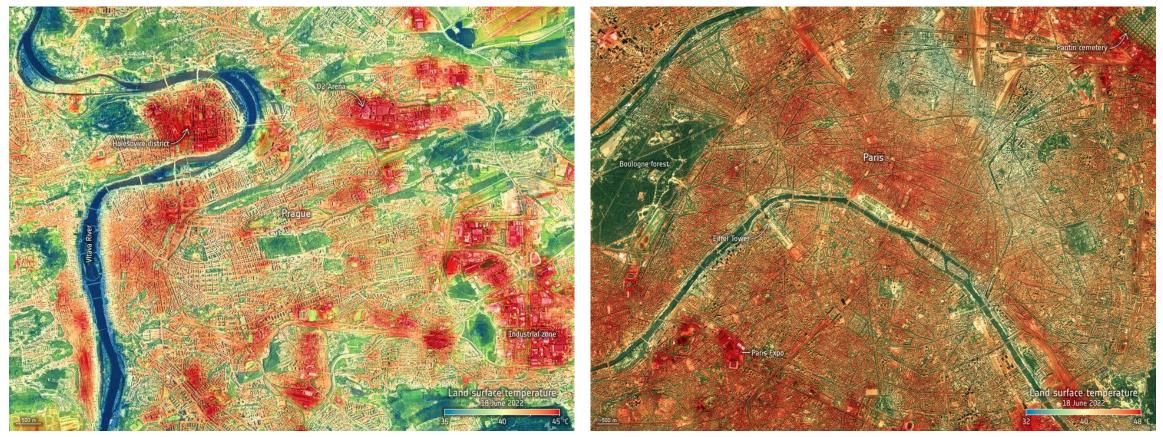
Urban green space with integrated drainage infrastructure to reduce stormwater flooding







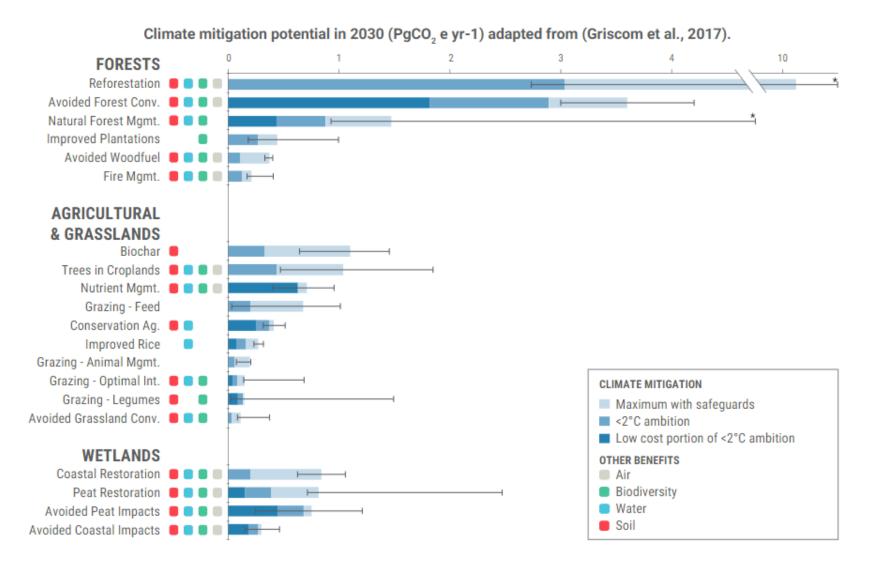
NBS REDUCE THE URBAN HEAT ISLAND EFFECT



Land-surface temperature in Prague on 18 June 2022

Land-surface temperature in Paris on 18 June 2022

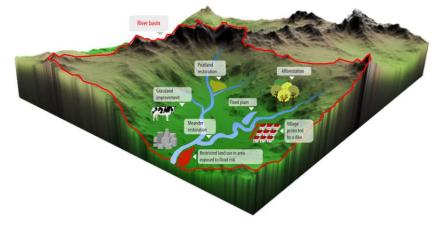
CLIMATE MITIGATION



NBS IN EU POLICIES







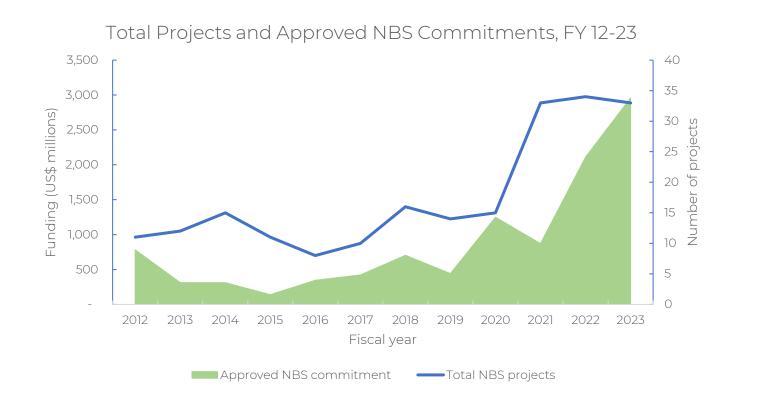
EU Flood Directive



Restoring ecosystems for people, nature and the climate

THE WORLD BANK'S NATURE-BASED SOLUTIONS FOR CLIMATE RESILIENCE PORTFOLIO IS GROWING

A portfolio review identified a total of **211 investment project** with project components using NBS for Climate Resilience **from FY12 to FY23**.





These components are valued at an estimated **10.6 Billion USD**

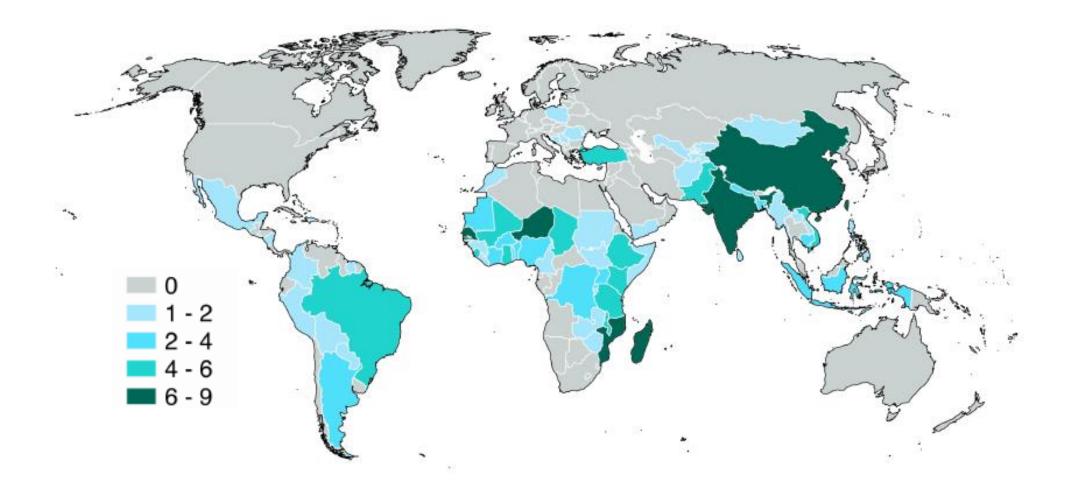


Rehabilitating or restoring **3** million hectares of ecosystems



Protecting **35,000** kilometers of coastline and riverbank

NUMBER OF WORLD BANK NBS PROJECTS



POLAND INTEGRATED FLOOD RISK MANAGEMENT

Odra-Vistula Flood Management Project

Odra River Basin Flood Protection Project

A combination of green and green-grey approaches are applied to reduce flood risk and improve the environment

- Room for the River: more space for rivers to flow
- Multipurpose dry polders to use for farming and flood overflow
- Green zones in urban centers
- City by-passes



KYRGYZSTAN GREEN AND GREY INFRASTRUCTURE

Kyrgyzstan Republic Resilient Landscape Restoration Project

- Kyrgyzstan faces landslides, mudflows and floods caused by land degradation and climate extremes
- The project invests in a combination of green and grey infrastructure to address hazards and support communities



BOGOTA URBAN RESILIENCE AND WATER MANAGEMENT

Rio Bogotá Environmental Recuperation and Flood Control Project

 The project has supported the construction of a wastewater treatment plants that improves the water quality, has reduce flood risk by rehabilitating the river, and has increased the environmental value by creating multifunctional urban green areas







The World Bank and GFDRR launched a dedicated Effort to Scale Up Nature-Based Solutions globally



PILLAR 1: KNOWLEDGE

PILLAR 2: OPERATIONS

PILLAR 3: PARTNERSHIPS









this growth

GFDRR DRIVES INVESTMENTS GFDRR grants for NBS projects World Bank NBS project financing

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RESILIENCE

LIMATE

NATU

2012

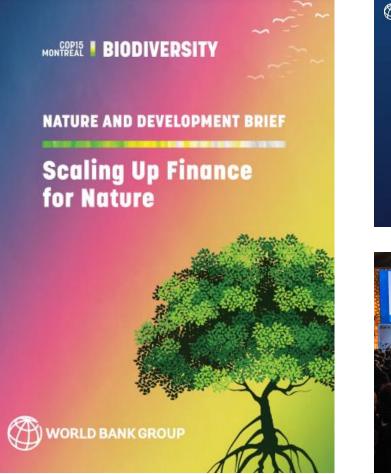
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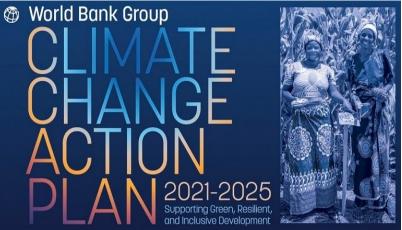
ONS

2023

NATURE-BASED SOLUTIONS FOR CLIMATE RESILIENCE

SETTING HIGH-LEVEL NATURE AND CLIMATE GOALS AND HOW NBS CONTRIBUTES







CLIMATE AND DEVELOPMENT BRIEF

Nature-based Solutions for Climate Resilience and Adaptation

WORLD BANK GROUP

NATURE-BASED SOLUTIONS FOR CLIMATE RESILIENCE

NBS PUBLICATIONS

Assessing the Benefits and Costs of Nature-Based Solutions for Climate Resilience:

A Guideline for Project Developers

NATURE-BASED SOLUTIONS



AVAILABLE AT NATUREBASEDSOLUTIONS.ORG

Break and Q&A



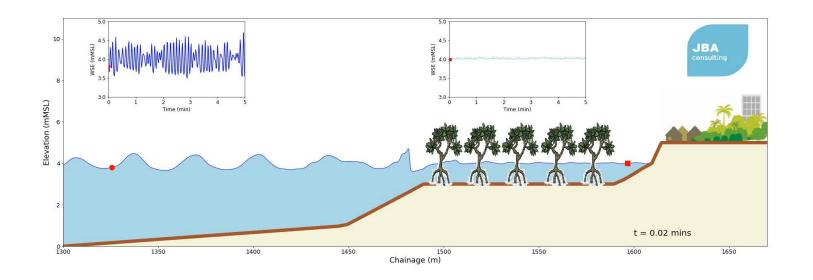
GLOBAL PROGRAM ON NATURE-BASED SOLUTIONS FOR CLIMATE RESILIENCE



GFDRR 🕅 Global Facility for Disaster Reduction and Recovery

Administered by **THE WORLD BANK** IBRD • IDA | WORLD BANK GROUP

NATURE-BASED SOLUTIONS FOR CLIMATE RESILIENCE IMPLEMENTATION CHALLENGES REMAIN

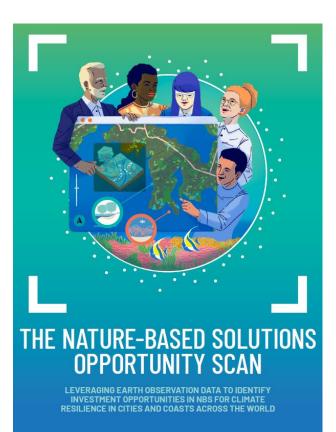




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SUPPORTING IDENTIFICATION OF NBS INVESTMENTS



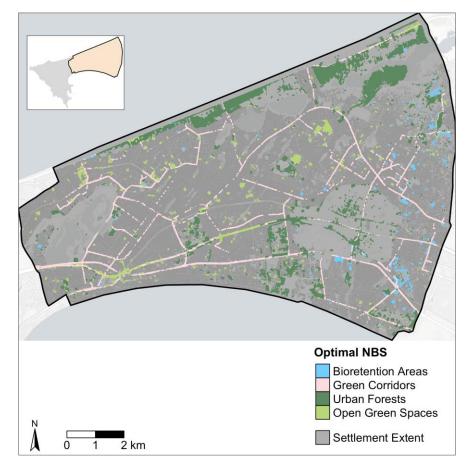
https://naturebasedsolutions.org/opport unity-scan

- Spatial identification of NBS investment opportunity areas
- Applicable in any city or coastal landscape, based on globally available geospatial (earth observation) data
- Designed as on-demand service 4–6-week turnaround to serve as conversation starter in projects investing in NBS

Impact

- Implemented in 20 countries (2022-2024), including 10 coastal landscapes and 70 cities. Informing an estimated \$2.5 billion in development financing as well as key strategic assessments
- In most projects, the NBSOS is a starting point, additional support provided
- Applied in across sectors, such as disaster risk management, water, environment and transport

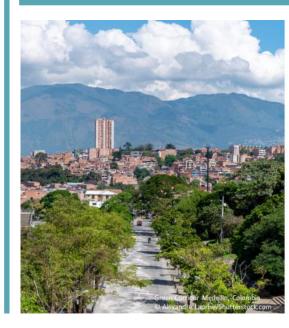
URBAN NBS INVESTMENT OPPORTUNITY AREAS IN DAKAR, SENEGAL



MCA to prioritize solutions and locations



 Maintaining green verges and establishing trees alongside roadways enhance aesthetics, reduces heat, and provides shade for pedestrians.



GREEN CORRIDORS EXAMPLE

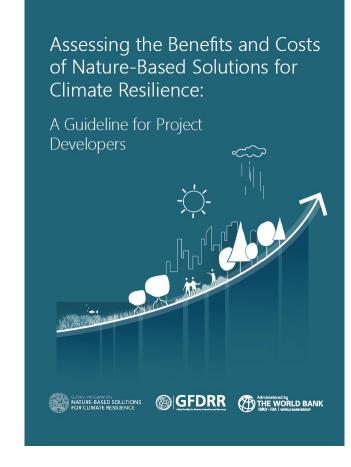
Green Corridors Project, Medellin, Colombia

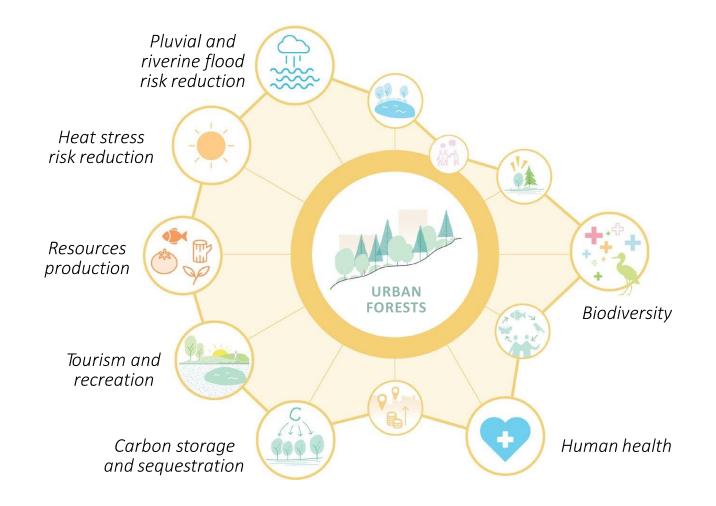
Created 36 green corridors with 8,800 trees planted

climatic conditions.

- Hazards mitigated:
- Runoff reduction
- 2 °C cooler on average
- Co-benefits
 - Better health outcomes
 More recreation
 - 75 locals hired
- \$16 million investment
- Projected 10-year benefits: \$136 million

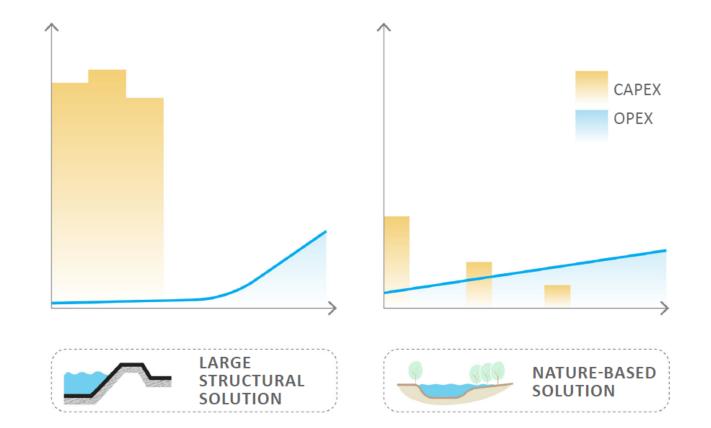
THE ECONOMIC CASE OF NBS FOR CLIMATE RESILIENCE





https://bit.ly/abcnbs

COST OF NBS AND GRAY INFRASTRUCTURE OVER TIME



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INFORMING NBS INVESTMENT THROUGH **GRANTS AND OPERATIONAL SUPPORT**

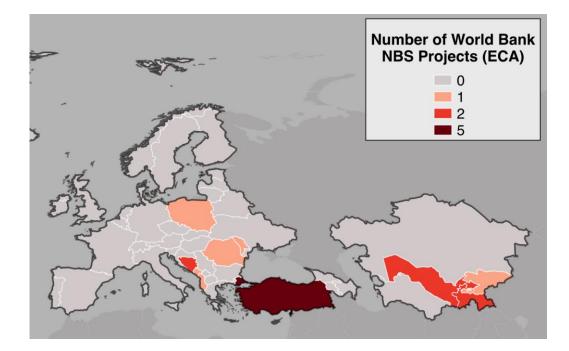
From FY 12-23, the **World Bank approved 16 projects in Europe and Central Asia (ECA).** These projects have a net commitment for projects components containing NBS of US\$655 million.

GFDRR provides grants to support clients

and World Bank teams with NBS investment identification and project preparation.

Since 2020, **\$3.6M has been allocated in** ECA GFDRR grants that include NBS

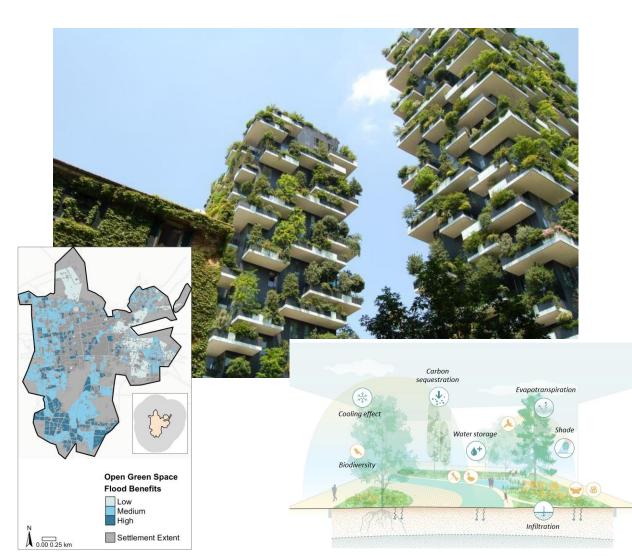
NBS support could also be leveraged through TAFF - https://www.gfdrr.org/en/taff



IMPACT THROUGH INVESTMENT OPPORTUNITY MAPPING

The NBS Opportunity Scan has attracted interest from **several European partners** to find opportunity areas for investing in NBS for climate resilience and adaptation.

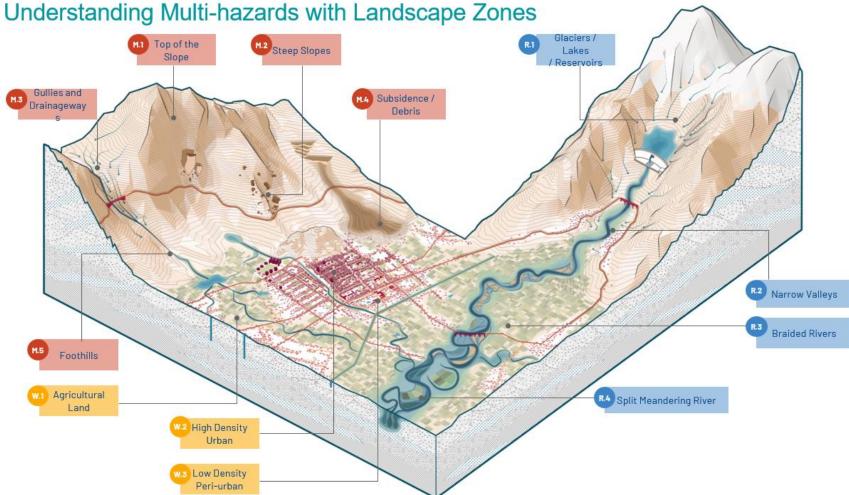
GFDRR, ESA and the Covenant of Mayors are exploring application of the NBSOS methodology in a group of EU cities.



IMPACT THROUGH ANALYTICS AND KNOWLEDGE

Supported by the government of Austria, **GFDRR is conducting a Regional study on NBS investment priorities** in Central Asia and the Caucasus





IMPACT THROUGH CAPACITY BUILDING

Capacity in government and implementation agencies is critical for effective NBS policy and investment

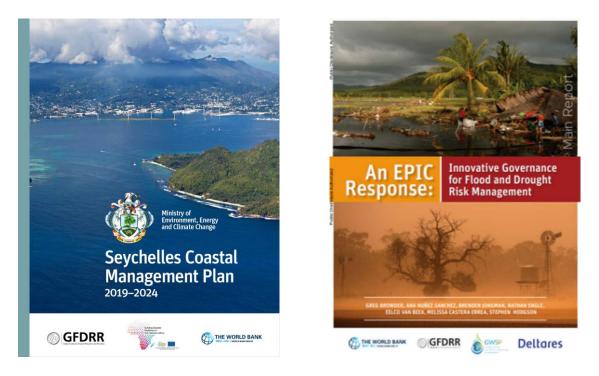
In September, **GFDRR and the World Bank** convened 35 government representatives from 6 countries in Innsbruck to learn from European experience with NBS in mountainous areas.



IMPACT THROUGH INTEGRATING **NBS IN CLIMATE AND NATURE POLICIES**

GFDRR helps integrate NBS into climate, nature, and sectoral policies.

Strong policies are key for the systematic linkage of nature and climate resilience.



HARNESSING EUROPEAN KNOWLEDGE AND EXPERTISE





Horizon 2020 European Union funding for Research & Innovation



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www.naturebased solutions.org



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