NATURE AND CLIMATE NEXUS

ADB





MONASH SUSTAINABLE DEVELOPMEN

Water Sensitive Cities
Australia

Nature-based Solutions for Urban and Rural Landscapes

Lecture Series + Project Design Clinic

17–19 September 2024 • Multifunction Halls 2–3 • Hybrid

This training is organized by the ADB Environment Group together with the Water and Urban Development Sector Group, and Agriculture, Food, Nature, and Rural Development Sector Office.



The Nature Conservancy





NEXT STEPS & RESOURCES



A growing body of resources on NBS for Urban ADB

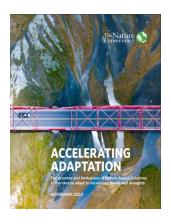




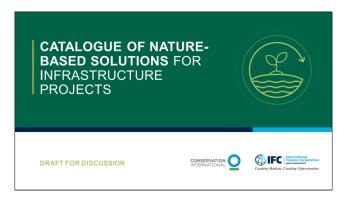
































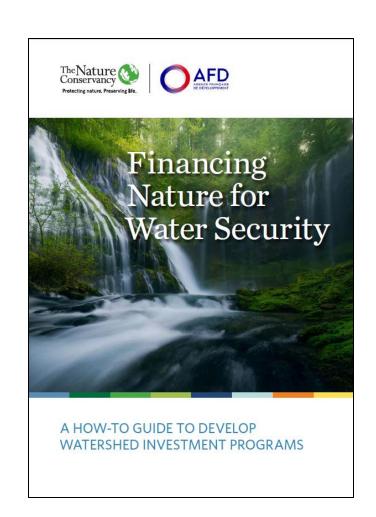
A How-to Guide to develop Watershed Investment Programs







- The "<u>How-to Guide</u>" is structured according to the phases of a project cycle for the development of an investment programme
- <u>Executive summary</u> provides a quick overview of the guide
- Series of « Deep dives »
 - o NbS Benefits & Trade-Offs
 - o <u>Economic and Financial Analysis</u>
 - Governance for Watershed Investment Programs
 - Working together for water security: green and gray
 - Monitoring & Evaluation
 - Factsheets of NbS for water security
 - Legal and regulatory policy frameworks mapping
 - Stakeholders mapping
 - Motivating sustainable funding in watershed investment programs
- Template for terms of reference: <u>pre-feasibility</u>, <u>feasibility</u>, <u>design</u>
- Examples of business cases for <u>Camboriu</u>, <u>Nairobi</u>, <u>Dar es Salaam</u>
 and <u>Cape Town</u>



RW Toolbox: decades of experience codified in step-by-step guidance to help practitioners navigate the process of developing watershed investment programs.













In-Depth Case Studies







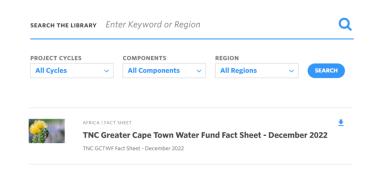
NORTH AMERICA

and Trade-Offs

Subject Matter Area Deep Dives



Searchable Library of Resources **Library Index**



NFW Online Training Curricula



CORPORATE BRIEFING PACKAGE - A virtual learning experience

Click below to find out about TNC's new 3part series intended for businesses companies, and other stakeholders to learn about collective action, water funds, and using nature-based solutions to help them achieve corporate water security and more

Join the Network



https://waterfundstoolbox.org/

Resilient Watersheds Network: an ever-growing community of experts who work to advance watershed resilience around the world.







Water Sensitive Citie
Australia

BI-MONTHLY WEBINARS



ROI & Economic Analysis for Water Funds

This WFN Webinar gives members and colleagues an overview of what TNC's global water funds team has been working on in regard to Return on Investment (ROI) and Economic Analyses of Nature-based Solutions for Water Security.

ECONOMIC & FINANCIAL ANALYSIS



Soils & Water Funds: New Methods for Linking Water, Climate, and Food

Restoring soil health increases water infiltration and reduces erosion, both of which are essential parts of the Water Funds mission. In addition restoring soil health removes carbon dioxide from the atmosphere and increases the fertility of soil for food production. Soils, therefore, represent an important opportunity to link Water Funds activities and outcomes with other key conservation and human objectives.

THE ROLE OF SOIL



Monitoring and Evaluation Programs

Watch this WFN webinar to learn more about monitoring costs, best practices, and data management.

WATER FUNDS MONITORING PRIMER

PEER REVIEW & COACHING PROGRAM

The Network facilitates capacity mobility to meet the immediate needs of priority projects. The matching program supports high-impact projects to achieve their conservation & socio-economic development objectives and creates professional development opportunities for staff to export lessons learned from their basin and support peers around the world.



CURATED NEWSLETTER

Our quarterly Newsletter elevates relevant announcements, new resources, and advertises timely opportunities including the Nature for Water Call for Proposals, public funding windows, upcoming trainings and webinars, and coaching needs.



Nature for Water Facility: a purpose-designed technical assistance platform to help watershed investment programs reach their objectives









WHO WE ARE



- Blended international team with staff model to support projects in North America, Latin America, Caribbean, Europe, & Africa
- Direct experience working across
 30+ watershed investment
 programs
- Co-managed by





SERVICE OFFERING



- Prefeasibility: Diagnosing water security challenge & NbS options
- Feasibility: NbS portfolio identification, ROI analysis & business case development
- Design: Long-term strategic planning & sustainable funding evaluation
- Implementation: Monitoring & Evaluation program development

IMMEDIATE PROJECT FOLLOW-UP SUPPORT



Teams that express interest will also be eligible for two person-days support from Nature for Water Facility staff to help advance them advance their next steps

To organize this assistance, please contact Naomi NOEL (naomi.noel@tnc.org)









N4W: We Have Four Core Focus Areas



Technical assistance

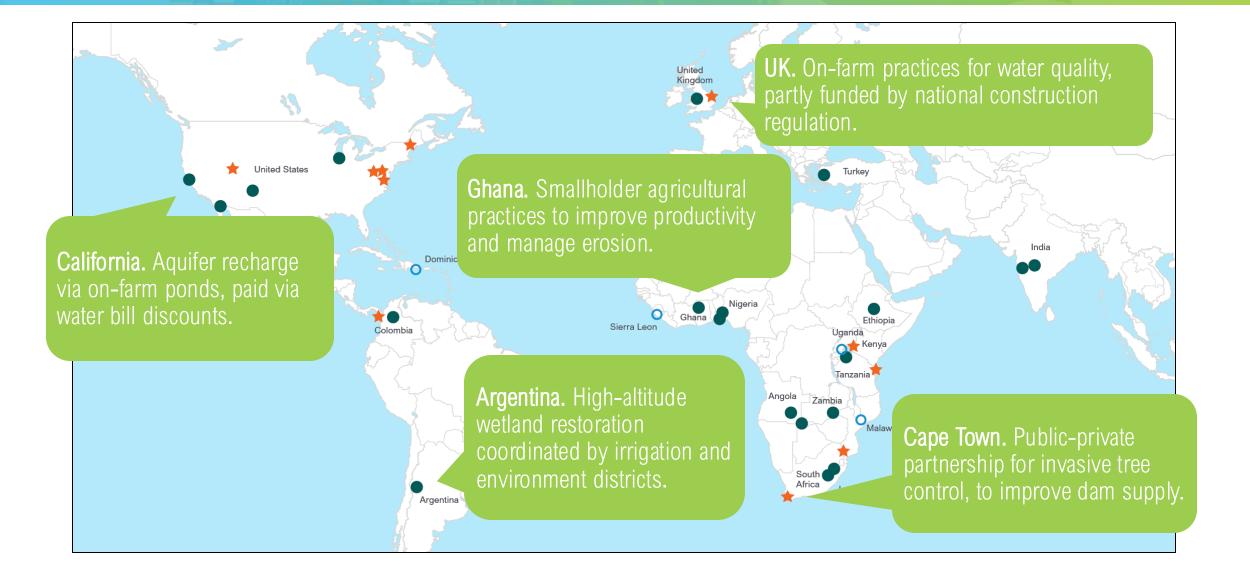
- N4W provides majority of co-funding for engagement
- Allocated via regular disbursement windows based on prioritization criteria
- Aim to sponsor 30+ engagements over four-year period
- Client pays for engagement
- No need to align with Call for Proposal disbursement windows
- Otherwise, identical to 'Sponsored Engagements' (same talent pool, tools, etc.)
- Targeted support for existing N4W clients that are launching de-novo watershed investment programs
- Combination of direct financing for pilots alongside capacity-building assistance from N4W team to enable local partner to show track record and begin delivering at-scale
- N4W to 'open-source' all tools, processes, and standard templates it relies upon
- Goal: inspire broader water sector, 'kick-start' provider network, and maximize iterative learning feedback loops.

N4W has supported about 30 local partners since 2022





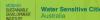


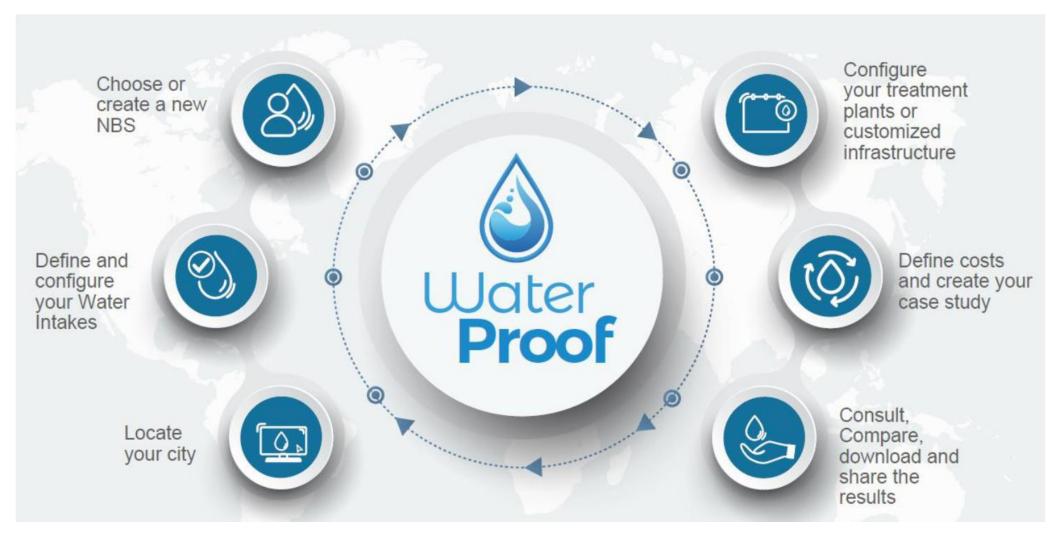


WaterProof: a tool to carry out rapid pre-feasibility for deploying NbS to address water quality issues

















START

WaterProof: webinar and online training





REGISTER NOW www.iwa-network.org/webinars

In partnership with:





The first cycle of the virtual WaterProof course was held from June 15, 2023 to July 6, 2023. If you want to access the contents as a guest, use the username guest.waterproof and password Guest.w4terproof









https://water-proof.org/learning/

https://iwa-network.org/learn/waterproofwebinar/

Research to practice

A 9 year \$120M research to practice initiative











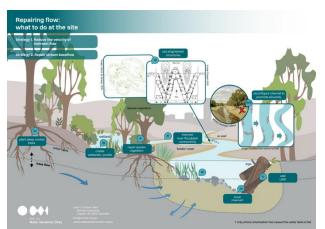


Selection of tools

Water Sensitive Cities Index



RESTORE T₁

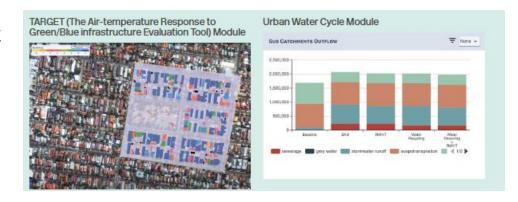


Transition Dynamics Framework

six phases and five enablers					
Transition phase	Champions	Platforms for connecting	Knowledge	Projects and applications	Tools and instruments
1 issue emergence	Issue activists		Issue highlighted	Issue examined	
2. Issue definition	Individual champions	Sharing concerns and ideas	Causes and impacts examined	Solutions explored	
3. Shared inderstanding and issue agreement	Connected champions	Developing a collective voice	Solutions developed	Solutions experimented with	
4. Knowledge dissemination	Influential champions	Building broad support	Solutions advanced	Solutions demonstrated at scale	Refined guidance and early policy
5. Policy and practice diffusion	Government agency champions	Expanding the community of practice	Capacity building	Widespread implementation and learning	Early regulation and targets
6. Embedding new practice	Multi - stakeholder networks	Guiding consistent application	Monitoring and evaluation	Standardisation and refinement	Comprehensive policy and regulation

Scenario Tool









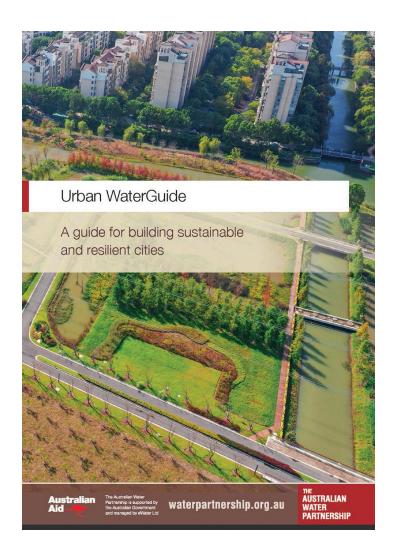




Urban WaterGuide

The Guide shows how to address urgent water challenges in a way that also delivers the SDGs and enhances resilience and sustainability by:

- Reducing reliance on rainfall fed water supplies and large-scale infrastructure
- Incorporating nature-based solutions to improve liveability and sustainability outcomes
- Delivering equal access to basic services and being inclusive in planning and governance.
- Considers inclusion through a lens of gender equality, disability, Indigenous and social inclusion (GEDSI)



The Urban WaterGuide comprises 5 steps





Develop a total water strategy to solve complex challenges



Co-design project-level solutions that perform multiple functions



Build support to deliver and evolve integrated solutions



5 Establish an enabling environment



Methodologies to develop options for implementing NBS in urban areas

Valuing the benefits of Nature-based Solutions for Integrated Urban Flood Management in the Greater Mekong Region





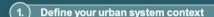












- What are the objectives and functions of the urban area of focus from a hydrologic, social, environmental and economic perspective?
- Define GEDSI characteristics, interests and rights for the area of focus
- How do these objectives and functions interact with wider catchment and regional factors?
- Assess climate vulnerability and degree to which the objectives of the urban system is are impacted by different types

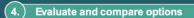


- management interventions/options, based on the three-tiered strategy: prepare, respond, recover
- Consider full spectrum of green, grey and blue interventions as well as non-structural solutions
- Identify GEDSI interests/needs in each option.



Identify and value benefits and costs

- The direct and indirect benefits, costs and risks of different options need to be identified and
- Consider the distribution of benefits, costs and risks across time, stakeholders and location including a particular focus on vulnerable population groups identified through your earlier GEDS



- Benefit cost analysis provides a rigorous method to compare different options
- Sensitivity testing and transparent assumptions build understanding and support better decisions
- Distributional impacts for both benefits and costs are
- Independent or peer review and participatory processes enhance confidence in options assessments



• Once you have selected the optimal mix of interventions, principles for fair and efficient financing options need to be identified and options assessed.

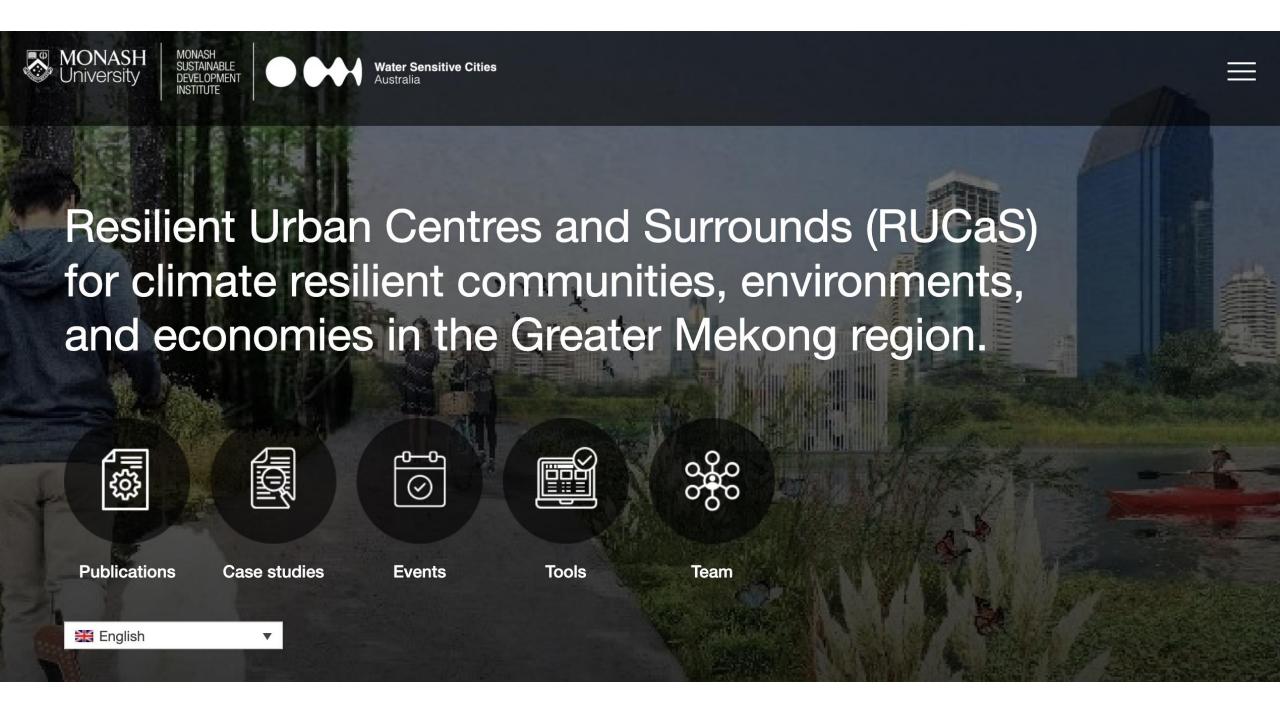






















ThinkTank

Harnessing

Cities

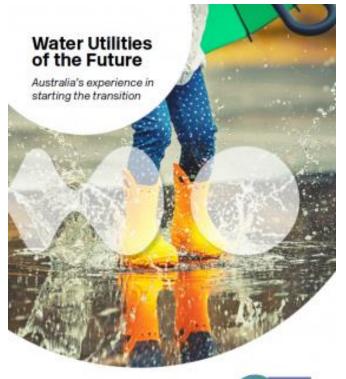
Hybrid Systems

for Transformative





ThinkTank













GSI Impact Hub – Coming Soon!



www.gsiimpacthub.org

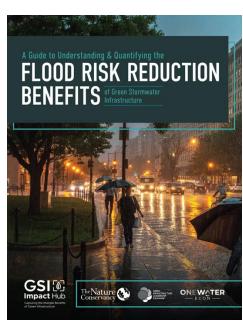
Website launching in October 2024 to include:

- 5 Benefit Guides and Summary Documents for Specific Co-benefits of Green Stormwater Infrastructure (GSI)
- Compendium of Existing Tools Available for Measuring GSI Co-benefits
- Newly developed web-based tool for quantifying co-benefits from proposed GSI projects

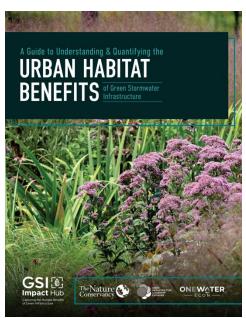
*currently specific to North American geographies

5 Guides on Co-Benefits of Urban NbS









+ Transportation Guide!

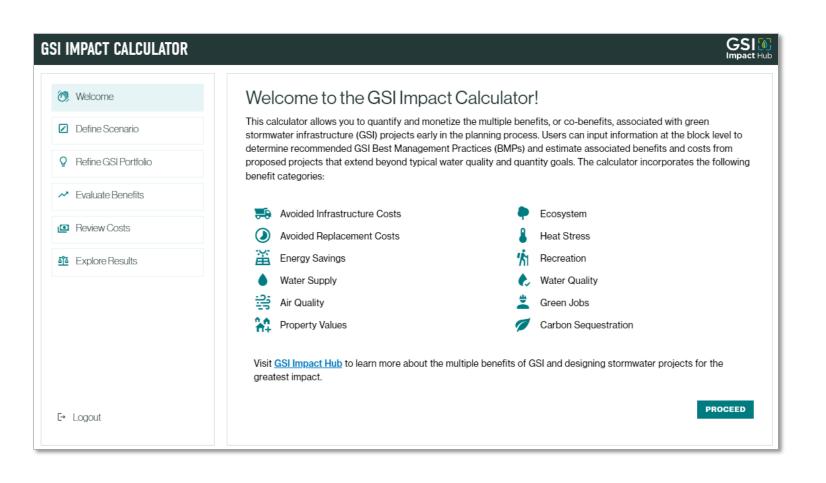


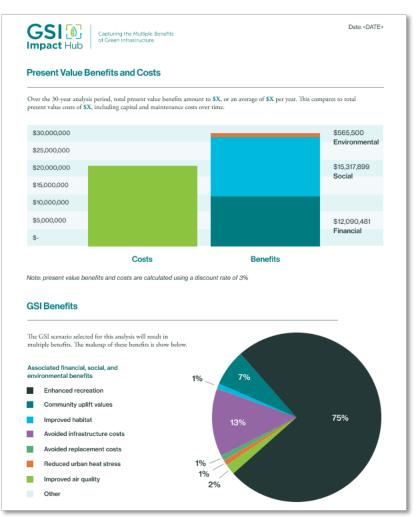






Quantifying Co-benefits of Urban NbS





THANK YOU

