







Green Infrastructure Webinar Series

Webinar 5: Funding Green Infrastructure

Thursday, 24 April 2025

10:00am Mountain Time

Logistics

Using the control panel



Audio: please choose between computer audio or phone call

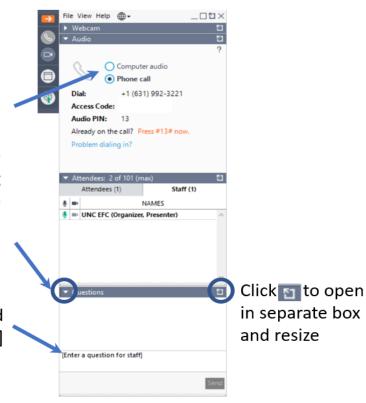
If you do not hear audio right now, please check your speaker volume or enter #[your Audio PIN]# if using phone

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to open in

Control Panel

Submit **questions** in the Questions box at any time, and press [Send]



Certificate of Completion

This session has **NOT** been submitted for pre-approval of Continuing Education Credits, but eligible attendees will receive a certificate of attendance for their personal record.

To receive a certificate:

- You must attend the entire session.
- You must register and attend using your real name and unique email address group viewing credit will not be acceptable
- You must participate in polls
- Certificates will be sent via email within 30 days

If you have questions or need assistance, please contact smallsystems@syr.edu.



About Us

The **Environmental Finance Center Network (EFCN)** is a university- and non-profit-based organization creating innovative solutions to the difficult how-to-pay issues of environmental protection and water infrastructure.

The EFCN works collectively and as individual centers to address these issues across the entire U.S, including the 5 territories and the Navajo Nation. The EFCN aims to assist public and private sectors through training, direct professional assistance, production of durable resources, and innovative policy ideas.



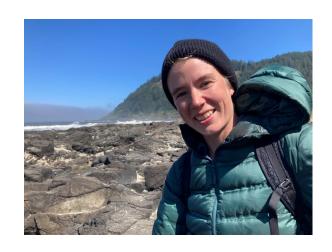
Webinar Series Overview

Title	Date	
Green Infrastructure 101	18 April 2024	
Equitable Green Infrastructure in a Changing Climate	25 July 2024	
Navigating the Green Infrastructure Policy Landscape	10 October 2024	
Asset Management for Green Infrastructure	23 January 2025	
Funding Green Infrastructure	24 April 2025	
Partnerships are Critical to Successful Green Infrastructure	17 July 2025	
Building a Green Infrastructure Workforce	16 October 2025	
Green Infrastructure Frameworks for Environmental Justice	22 January 2026	
Source Water Protection and Watershed Planning for Wildfire	16 April 2026	
Bridging the Gap: Integrating Land and Water Planning for Sustainable Futures	16 July 2026	

Overview of Today's Webinar

- 1. Brief recap: What is green infrastructure?
- 2. Funding as green Asset Management strategy
- 3. Overview of funding opportunities for green infrastructure
- 4. Resources
- 5. Question & Answer session with speakers

Today's Speakers



Shannon Sloane Pepper
Water Utility Trainer and Specialist,





Mike Crowley
Vice President,



About You!



Please complete the poll that pops up on your screen.





Quick Recap: Green Infrastructure

What makes green infrastructure such a compelling water management option for communities of all sizes?



Water/Wastewater/Stormwater Infrastructure



Stormwater Infrastructure

Gray



Green



Function: Collect stormwater to prevent localized flooding on sidewalk and road

Some co-benefits of permeable pavers + rain garden:

- Filtration of water through soil beneath pavers
- Dispersed absorption –
 stormwater does not make
 it to wastewater treatment
 plant
- Space for public enjoyment, habitat



Why Green Infrastructure?



Climate Resiliency



Partnerships



Co-Benefits



How do you Value GI Co-Benefits?

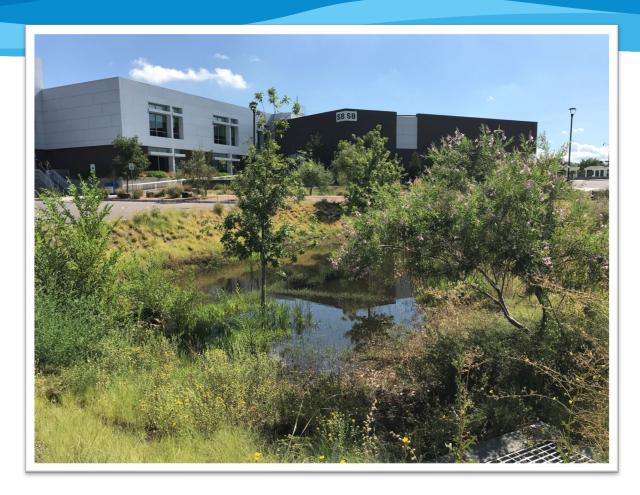
- Increased habitat for wildlife
- Improved air quality
- Improved mental health of community
- Aesthetics
- Benefitting the watershed and everyone downstream
- Bioremediation nature's treatment system
- Reduced burden on wastewater treatment plants
- Financial efficiency





Funding is a Crucial Part of Green Infrastructure

- And not just capital funding to install GI, but operations and maintenance funding to keep it functioning.
- Very difficult to plan funding well if you don't understand asset management, and specifically...
 - Life Cycle Costing



Stormwater harvesting basin on Central New Mexico Community College's campus. *Photo: Arid LID Coalition*

Asset Management Core Component:

Life Cycle Costing

Costs the asset

will incur over its

lifespan

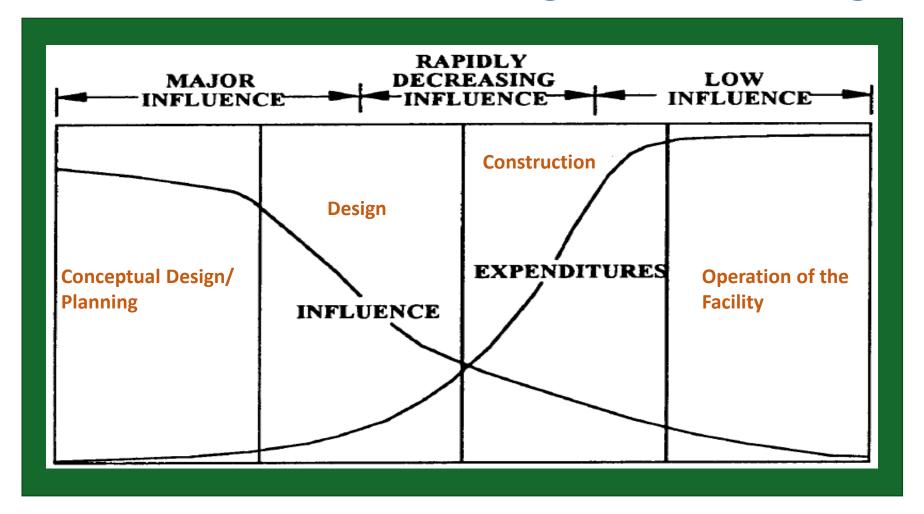
Costs can include: planning, design, acquisition, installation, maintenance, rehabilitation, replacement, retirement/disposal

Natural assets don't have some of these costs (won't be replaced)





An Asset's Life Starts During the Planning Phase



Source: Gibson and Hamilton (1994) Analysis of pre-project planning effort and success variables for capital facility projects. Construction Industry Institute Source Document 105.



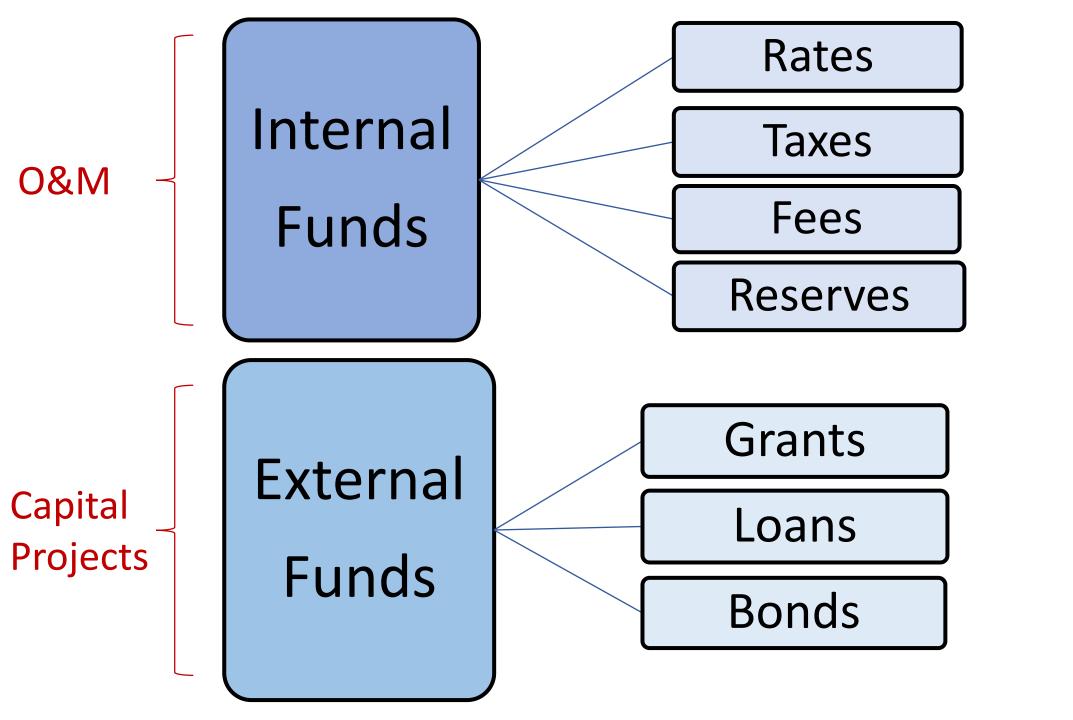
Asset Management Core Component:

Long-Term Funding

The money you need to get it all done

In order to maintain the desired level of service for the lowest life cycle cost, a system must have a sustainable, long-term funding strategy.

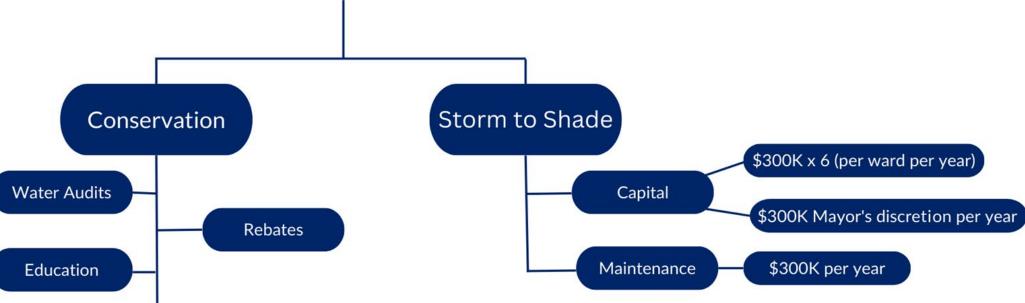






Conservation and Stormwater Resources

TCB GSI Mini-Grants



Storm to Shade is funded by a fee on City of Tucson utility bill based assessed at .13 per CCF averaging \$1 per month for the average household.



de la Ciudad de Tucson



To truly claim an "equity approach," we have to make sure our GSI investments are installed with dedicated maintenance capacity.

Building without dedicated maintenance capacity may leave communities with another type of burden.

Maintenance Capacity:

• \$

Do you have the funds to pay people to maintain your green infrastructure?

Knowledge

Does the staff know how to maintain green infrastructure, specifically?

Systems

Do you have a way to track maintenance and **asset** condition over time?





Asset Management System | Position

Storm to Shade

- Physical location where GSI assets sit within others' jurisdictions
- Report on costs for assets located within other departments', divisions', and partner entities' land.

Storm to Shade Program GSI EAM Positions					
Street, GSI	Police, GSI				
Parks, GSI	Fire Station, GSI				
Ward Office, GSI	Housing (HCD), GSI				
Well Site, GSI	TUSD Facility, GSI				
Pima County FCD, GSI	Misc. COT Facility, GSI	Str			

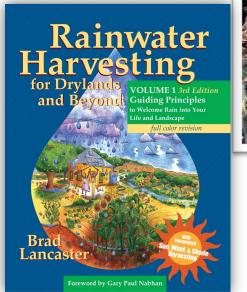
Ward	FY2024
1	\$57,965
2	\$0
3	\$114,732
4	\$24,191
5	\$50,588
6	\$140,565
Total	\$388,041

	EAM POSITION				
	Street, Parks, Ward Office	Pima County RFCD			
FY23	\$231,405	\$8,951			
FY24	\$379,499	\$48,018			

Starting at the Neighborhood Scale with GI Pilot Projects

 "Pilot projects show us how to do what we don't know how to do."

Funding, Feasibility Analyses





Dunbar Springs Neighborhood in Tucson, AZ. All plants in this photo are planted in stormwater basins along the road and sidewalk.

Mike's presentation



Additional Resources

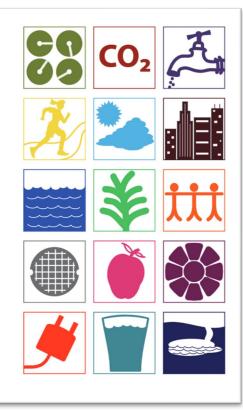


The Value of Green Infrastructure: A Guide to Recognizing Its Economic, Environmental and Social Benefits

The Value of **Green Infrastructure**

A Guide to Recognizing Its Economic, **Environmental and Social Benefits**





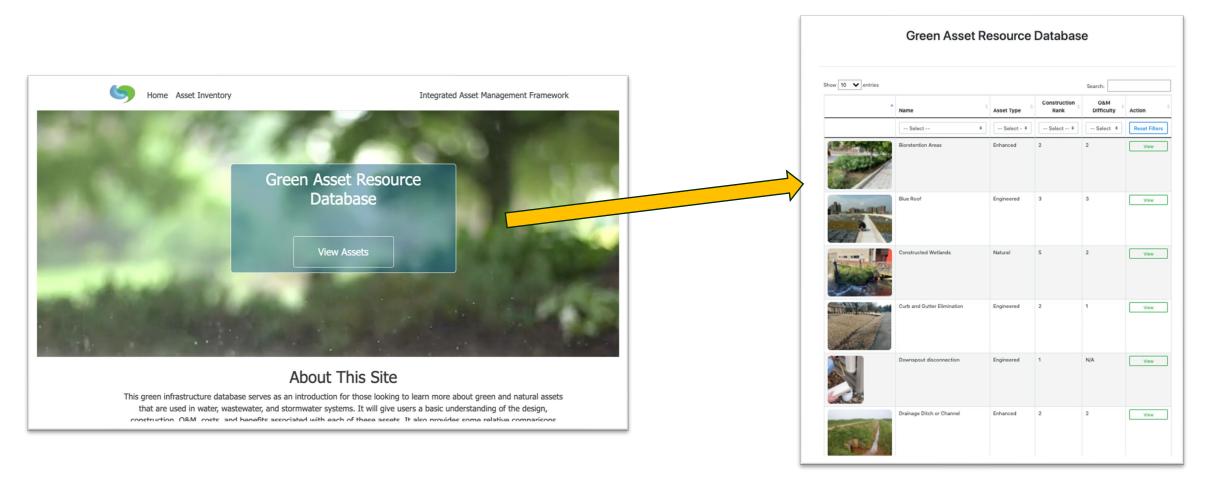
Reduced Water Treatment NeedsFor cities with combined sewer systems (CSS), stormwater runoff entering the system combines with wastewater and flows to a facility for treatment. One approach to value the reduction in stormwater runoff for these cities is an avoided cost approach. Runoff reduction is at least as valuable as the amount that would be spent by the local stormwater utility to treat that runoff. In this case, the valuation equation is simply:

runoff reduced (gal) * avoided cost per gallon (\$/gal) = avoided stormwater treatment costs (\$)

https://cnt.org/publications/the-value-of-green-infrastructurea-guide-to-recognizing-its-economic-environmental-and



Integrated Asset Management Framework & Green Asset Resource Database



https://swefcapps.unm.edu/gardb



Question & Answer Session



Green Infrastructure Webinar Series

Join us for this 10-part webinar series focused on the financial, managerial, and technical aspects of green infrastructure. Experienced practitioners, policy and funding experts, as well as academics, will discuss the opportunities and challenges facing the implementation of green infrastructure. These informative sessions will be offered quarterly, from April 2024 to July 2026.

Series Host: Shannon Pepper, Research Scientist, Southwest Environmental Finance Center

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April 18, 2024 | 12:00-1:00 EDT

Watch Here

Equitable Green Infrastructure in a Changing Climate

July 25, 2024 | 12:00-1:15 ET

Register Now

Navigating the Green Infrastructure Policy Landscape

October 10, 2024 | 12:00-1:15 ET

Register Now

Asset Management for Green Infrastructure

January 23, 2025 | 12:00-1:15 ET

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Funding Green Infrastructure

April 24, 2025 | 12:00-1:15 ET

Register Now

Power of Partnerships in Green Infrastructure

July 17, 2025 | 12:00-1:15 ET

Registration TBA

Building a Green Infrastructure Workforce

October 16, 2025 | 12:00-1:15 ET

Registration TBA

Green Infrastructure Frameworks for Environmental Justice

January 22, 2026 | 12:00-1:15 ET

Registration TBA

Source Water Protection & Watershed Planning in the Face of Wildfires

April 16, 2026 | 12:00-1:15 ET

Registration TBA

Bridging the Gap: Integrating Land & Water Planning for Sustainable Futures

July 16, 2026 | 12:00-1:15 ET

Registration TBA





Current series flyer in your "Handouts" tab



Please fill out the survey for this webinar!



Thanks for attending!

Next webinar in our Green Infrastructure Series:

The Power of Partnerships for Green Infrastructure

July 17, 2025

Shannon Sloane PepperWebinar Series Host

spepper@unm.edu



