REGIONAL BLUE-GREEN INFRASTRUCTURE COMMUNITY ENGAGEMENT AND PLANNING PROJECT

Flood Ready Communities: Regional Open House

MWCOG, ICF, CHPlanning, Straughan Environmental Inc.

Thursday, May 22, 2025 4:30 PM - 7:30 PM



Key Partners







DC HSEMA (District of Columbia's Homeland Security and Emergency Management Agency)



Prince George's County Department of Environment (DoE)



DC DOEE (Department of Energy & Environment)



Consultants



ICF



Straughan Environmental Inc.



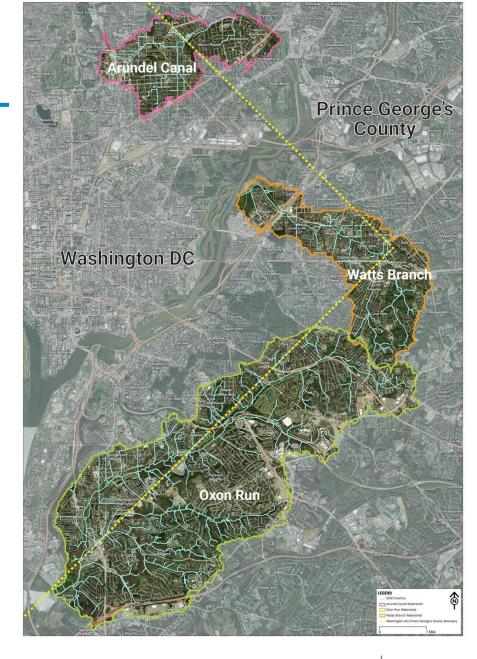
CHPlanning



What and Where

The Regional Blue-Green Infrastructure (BGI)
Community Engagement and Planning Project is a
collaborative planning effort to increase resilience in
three areas, or **subwatersheds**, spanning the District
of Columbia and Prince George's County to flooding.

These subwatersheds are **Arundel Canal**, **Watts Branch**, and **Oxon Run**.





Why a Regional Approach?

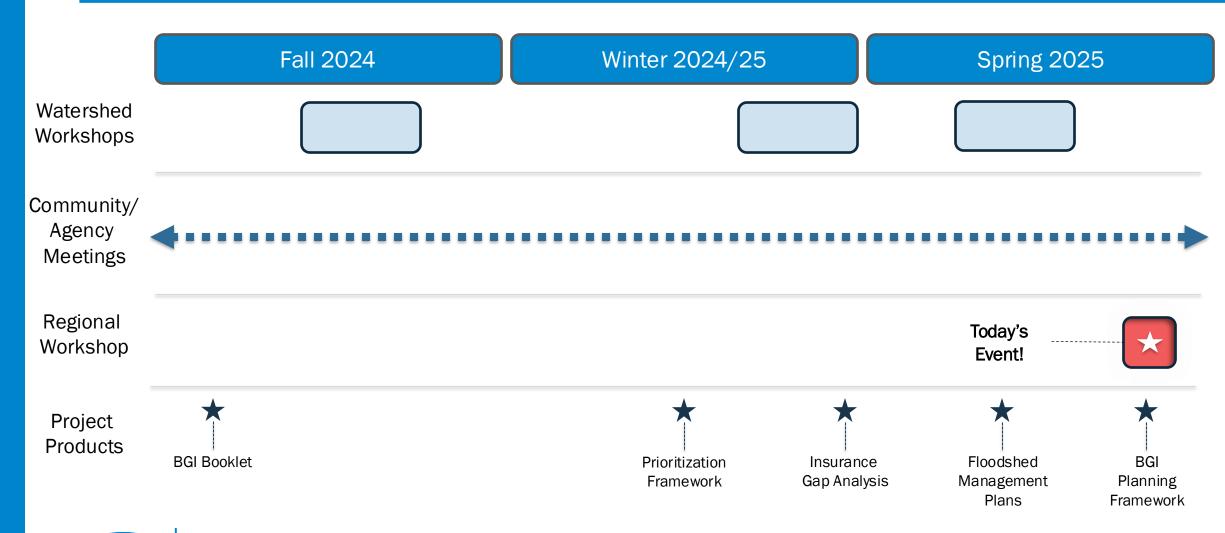
Collaborating with neighboring jurisdictions to develop flood management plans, share resources and expertise, and create integrated solutions that address other climate hazards and community needs.

A *regional approach* considers the entire watershed or floodplain, addressing upstream and downstream impacts.





Project Process and Engagement Highlights





Why You're Here - Collaboration and Implementation

We want to learn from you and for you to learn from each other.

You bring valuable experience, local knowledge, and connections across neighborhoods, networks, and watersheds.

You're here to collaborate with us on a strategy for implementation.

This is a working session to explore how Blue-Green Infrastructure (BGI) projects can move forward with your organizations, agencies, and communities as key partners.

You're here to meet, interact, and form partnerships.

The room is full of changemakers. Use this space to connect with others who are working toward community resilience and equitable climate solutions.

Our commitment: Partnership over assumptions.

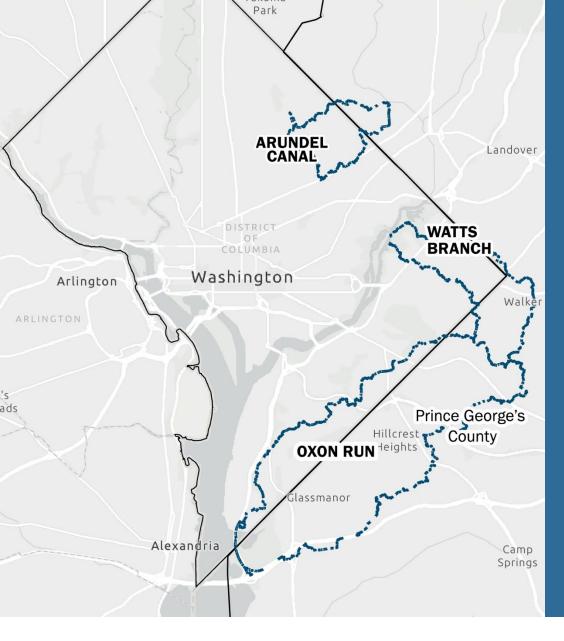
This process is grounded in collaboration, not top-down decision-making. Your continued involvement will determine what happens next.



Agenda

- Welcome & Open House Overview
 Welcome, project overview, and how to navigate the evening
- Study Outputs What are they, and how do I use them?
- Panel Discussions
- Closing Remarks





Study Outputs



Summary of Outputs - What do we get?

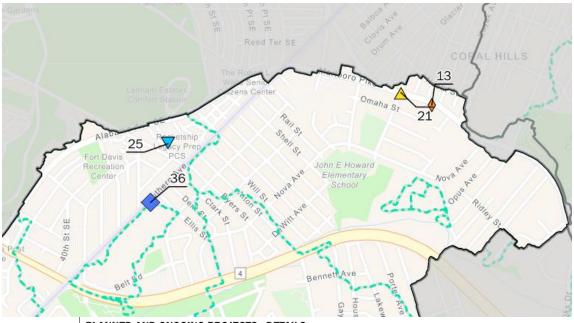
Final Report:

- Ongoing Projects Mapping
- Flood Risk Identification Mapping
- Repeatable Process to Identify BGI Opportunities
- Comprehensive BGI Opportunities Mapping
- Focus Area Prioritization Tool
- Community Engagement Guide and Tools
- Repeatable Process to Develop Fundable Concepts
- Three (3) Demonstration Concept Plans
- Partnership and Funding Guidance (today's event!)



Summary of Outputs - Ongoing Projects Mapping

We developed mapping of planned and ongoing known projects in each sub watershed.



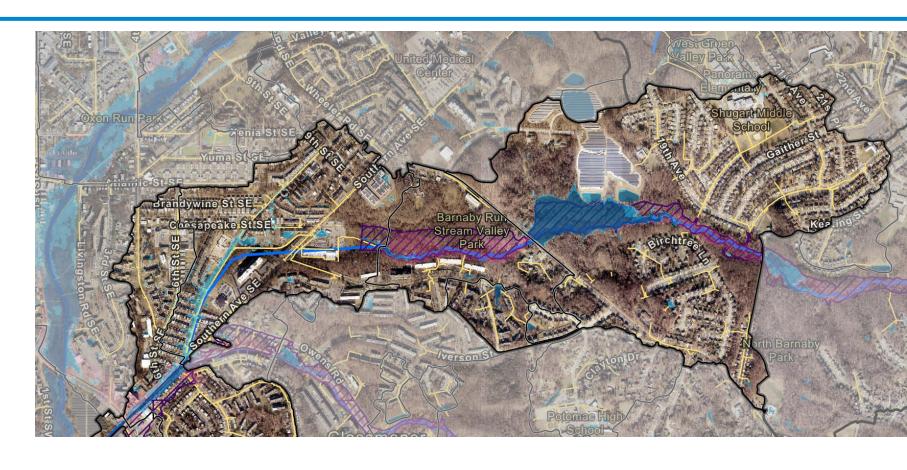
PLANNED AND ONGOING PROJECTS - DETAILS

ID	Project Name	Organization	Project Category	Source Link
13	Marlboro Pk. Pedestrian Safety Improvements, Ph. 2	Prince George's DPW&T	Pedestrian Centric	https://www.princegeorgescountymd.gov/ departments-offices/public-works- transportation/projects/capital-roadway-and- bridge-projects
21	Marlboro Pk., Glacier Ave. Intersection Traffic Signal Project	Prince George's DPW&T	Transportation	https://princegeorges.maps.arcgis.com/apps/ webappviewer/index.html? id=c13928ea8a2946acba51feb034088ce3
25	Rehabilitation of Elevated Water Storage Tanks	DC Water	Water Supply	https://www.dcwater.com/resources/open- data-portal/capital-improvement-dashboard
27	Towne Square at Suitland Federal Center	Prince George's RDA	Development	https://www.princegeorgescountymd.gov/ departments-offices/redevelopment-authority/ current-development-projects
36	The Ascent	Montage Development Group	Development	https://www.montagedevgroup.com/



Summary of Outputs – Flood Risk Identification Mapping

- Consolidate federal and county flood mapping
- Incorporate latest DOEE modeling (District)
- Incorporate "Blue-Spot" analysis (Prince Georges)





Summary of Outputs – Repeatable Process to Identify BGI Opportunities





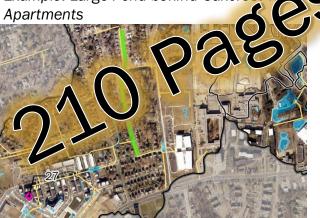
Summary of Outputs - Comprehensive BGI Opportunities Mapping

- Bridge and Culvert **Modifications**
- 2) Floodable Public Spaces
- 3) Green Stormwater Infrastructure
- 4) Blue-Green Streets
- 5) Impervious Reduction
- **Pond Retrofits** 6)
- Storm Drain Outfall Retrofits
- 8) Stream Daylighting
- Stream, Wetland, and Floodplain Restoration
- Tree Planting











Example: Tree planting in open space near **Dupont Heights Park**

Example: Fort Drive between Towne Park Road and Crosier Street

Summary of Outputs – Comprehensive BGI Opportunities Mapping

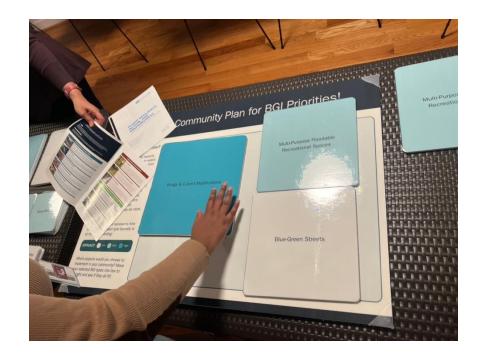
- Local Governments: use our mapping to target retrofit projects.
- Stewardship Groups: Find opportunities, in your community, aligned with your cause.
- Community Members: Advocate for solutions that beautify your shared spaces.
- All: join with funders, select projects and follow our process to develop fundable concepts.





Summary of Outputs – Prioritization Tool

Previous events have helped us understand priorities on preferred *types* of projects and their relative effectiveness.







Note: Project details refer to one installment of the solution.



Flood Mitigation

Reduce runoff rates by capturing some rainfall in tree canopy, which slows down rain as it falls to the surface, and by providing green space where water can infiltrate.



Social Equity

Provide shade to reduce extreme heat, the financial burden of cooling homes, and the potential health risks associated with heat waves.



Public Health

Provide air quality benefits and shade to reduce health risks associated with extreme heat (i.e., cardiovascular and respiratory illness).



Sustainable Development

Encourage growth that balances economic, social and environmental well-being for existing and new residents.



Summary of Outputs – Prioritization Tool

We've developed a prioritization tool that balances:

- Social Equity
- Existing Flood Risk
- Actionability
- Watershed-wide Impact

This is a living tool that we can adapt as priorities change.

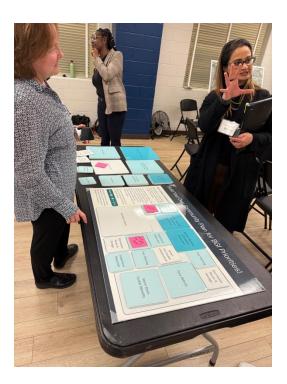


				Oxon Run										
			Criteria Weight (max	1	2	3	4	5	6	7	8	9	10	11
Oriteria	Metric Notes	Category	Score)*				_			_			_	_
Sandal Oldanın bilinin bidir.	Weighted average/FA		4.5	3.4		3.7			3.6	4.0	4.2	4.5	4.1	3.3
Social Vulnerability Index	Acre	Social			3.3		3.9	4.1	2.3	4.1	3.9			
Equity Emphasis Area	Weighted average/FA	Vulnerability and		3.2		1.8						4.1	3.2	1.8
Assets for Socially Vulnerable Population	Count/FA Acre	Equity	9			1.0			3.3		2.0		2.9	1.4
Fotal Population	Weighted average/FA	' '	9			8.6			7.9	6.9	6.4			6.2
Population Density	Acre		3	1.4	1.5	0.8	2.2	3.0	1.7	2.5	1.6	1.8	1.3	0.5
Building Footprints within FEMA Flood Hazard Area - 100-year and DPIE	Acres x Factor Total/FA Acres		6	0.1	0.8	0.0	0.1	6.0	0.0	1.9	1.7	0.0	0.0	2.1
	Acres x Factor Total/FA		_											
Building Footprints within Bluespots/IFM	Acres		3	1.3	0.8	3.0	1.1	1.2	1.0	1.0	0.8	0.8	0.5	0.2
mpervious Road Surface Area within				ı										
FEMA Flood Hazard Area - 100-year and	Acre/FA Acre	Asset	6	0.1	0.7	0.1	0.6	0.4	0.1	0.8	1.1	0.0	0.8	0.8
mpervious Road Surface Area within		Vulnerability												
Bluespots/IFM	Acre/FA Acre		3		0.5	1.1	0.7	1.2	0.3	0.8	0.2	0.7	0.8	1.6
FEMA Flood Hazard Area - 100-year and	Acre/FA Acre		2	0.2	0.3	0.1	0.5	0.5	0.2	0.4	0.4	0.2	0.1	0.4
Bluespots/IFM	Acre/FA Acre]	2	0.7	0.3	0.9	0.4	2.0	0.2	0.8	0.2	0.3	0.3	0.6
	Count x Factor Total/FA													
Oritical & Community Assets	Acres		8	3.3	1.4	1.0	1.0	8.0	1.5	1.5	1.7	0.7	1.3	0.0
Bridge and Culvert Modifications (BCM)	Count/FA Acre		1.2	0.4	0.4	0.6	0.2	0.3	0.2	0.3	1.2	0.0	0.4	0.0
Green Stormwater Infrastructure (GSI) Point Count)	Count/FA Acre		2.3	0.9	0.5	0.9	0.7	0.3	2.2	2.2	1.0	1.9	0.6	0.0
Green Stormwater Infrastructure (GSI) Polygon Acre)	Acre/FA Acre		2.3	1.4	1.2	1.2	0.8	0.8	0.7	1.2	1.5	1.7	1.7	0.5
Storm Drain Outfall Retrofits (OUT)	Count/FA Acre	1	2.3	1.4	0.9	0.4	0.8	0.3	0.7	0.8	0.5	1.8	0.4	0.5
Blue Green Street (BGS)	Linear Feet/ FA Acre	1	2.3	0.1	0.8	0.0	0.5	1.4	0.4	0.8	0.0	0.0	0.5	0.0
Stream Daylighting (DAY)	Linear Feet/ FA Acre	Actionability	1.2	0.0	0.4	0.0	0.7	0.4	0.5	0.3	0.2	0.8	0.3	1.2
Stream, Wetland, and Floodplain		1 1												
Restoration (STR)	Linear Feet/ FA Acre		3.5	1.4	0.8	1.8	1.2	1.2	1.1	1.0	2.0	1.6	1.2	0.8
Multi-Purpose Floodable Recreational Spaces (FRS)	Acre/FA Acre		3.5	1.2	0.4	2.3	1.4	3.5	1.1	0.0	1.0	1.3	2.5	1.1
mpervious Reduction (IMP)	Acre/FA Acre		4.6	4.4	0.9	4.6	1.7	2.0	4.0	0.5	0.0	0.9	2.4	0.0
Pond Retrofits (PND)	Acre/FA Acre	1	2.3	1.3	0.2	1.1	0.4	0.1	0.1	0.6	0.2	0.4	0.3	1.5
Free Planting (TRP)	Acre/FA Acre	1	4.6	1.8	1.3	3.6	1.9	4.6	1.4	0.9	2.3	1.6	1.6	1.1
Watershed-wide Impact		Watershed-wide Impact	10	10.0	5.0	10.0	5.0	0.0	10.0	0.0	5.0	10.0	10.0	0.0
		Social												
		Vulnerability and		l										
	SUBTOTAL	Equity	30	19.0	17.8	15.9	21.5	27.1	18.8	##	18.0		##	13.2
	SUBTOTAL	Asset	30	6.9	4.7	6.2	4.4	19.4	3.4	7.2	6.0	2.7	3.9	5.7
	SUBTOTAL	Actionability	30	14.4	7.7	16.5	10.3	14.8	12.5	8.6	9.7	11.9	11.8	6.7
		Watershed-wide												
	SUBTOTAL	Impact	10	10.0	5.0	10.0	5.0	0.0	10.0	0.0	5.0	10.0	10.0	0.0
		Total Score							44.7			45.5		
								1				1		
		Social										-		
		Vulnerability and		ı										
	SUBTOTAL RANKING	Equity		6	9	10	3	1	7	2	8	4	5	11
	SUBTOTAL RANKING	Asset		3	7	4	8	i.	10	2	5	11	9	6
	SUBTOTAL RANKING	Actionability		3	10	1	7	2	4	9	8	5	6	11
	SODI OI AL MAINNING	Watershed-wide		9	10		-	-	-	9		-		-"
	CURTOTAL DANKING			1		1	6	9	1	9	6	1	1	9
	SUBTOTAL RANKING	Impact			6		0	3	1	3	ю		- 1	_
		RANKING		2	10	3	7	- 1	6	8	9	5	4	11

Summary of Outputs – Community Outreach Guide and Tools











Summary of Outputs – Repeatable Process to Develop Fundable Concepts

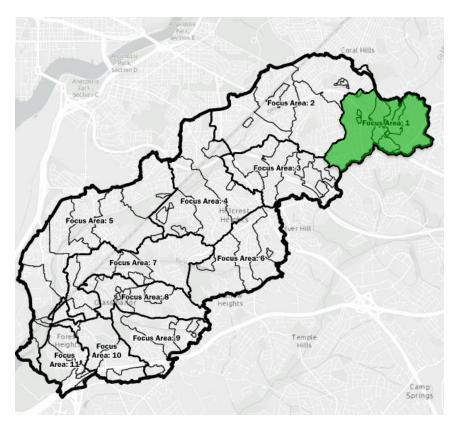
- ✓ Plan site visits
- ✓ Collect data
- ✓ Select the right opportunities for you
- ✓ Quantify flood storage potential
- ✓ Analyze effectiveness and quantify benefits
- ✓ Develop mapping







Demonstration Concept Plans



Focus Area: 6

Focus Area: 5

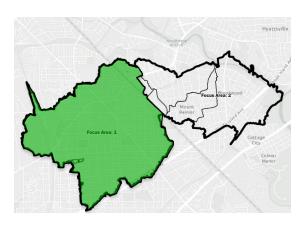
Focus Area: 5

Focus Area: 3

Area: 3

Area: 3

Area: 3



Oxon Run - 11 Focus Areas

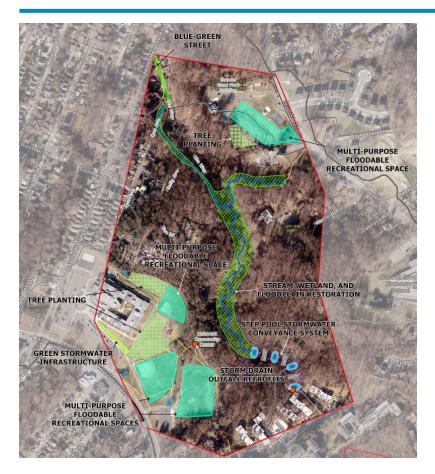
Watts Branch - 4 Focus Areas*

Arundel Canal - 2 Focus Areas

*Note: We exempted neighborhoods in Watts Branch within the District as DOEE is currently executing a parallel study.



Demonstration Concept Plans (Draft/Examples)



Pictured: Excerpts from in-progress concepts (draft)





Summary of Outputs – Partnership and Funding Guidance

- This is why we are here today.
- This project was about identifying partners and putting them in this room.
- Let's have open dialogue about what it really takes to advance good ideas to funded projects.

REGIONAL OPEN HOUSE FLOOD READY COMMUNITIES

DISCUSS FUNDING AND IMPLEMENTATION FOR FUTURE PROJECTS.

Join us in-person for the Regional Open House!

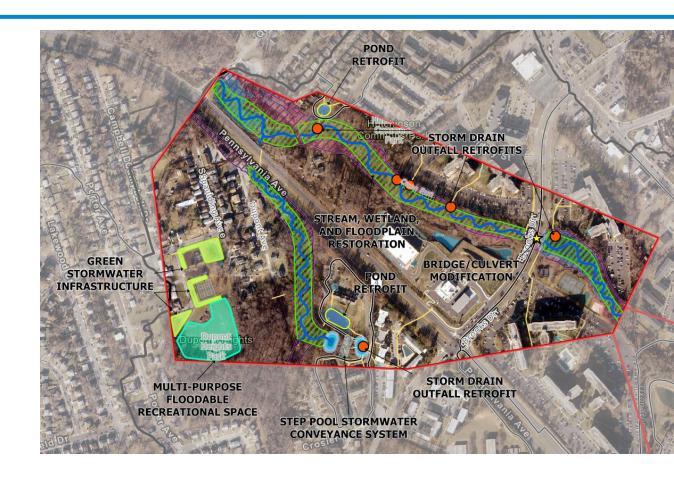
May.22
THURS|4:30-7:30 PM
MARVIN GAYE REC CENTER



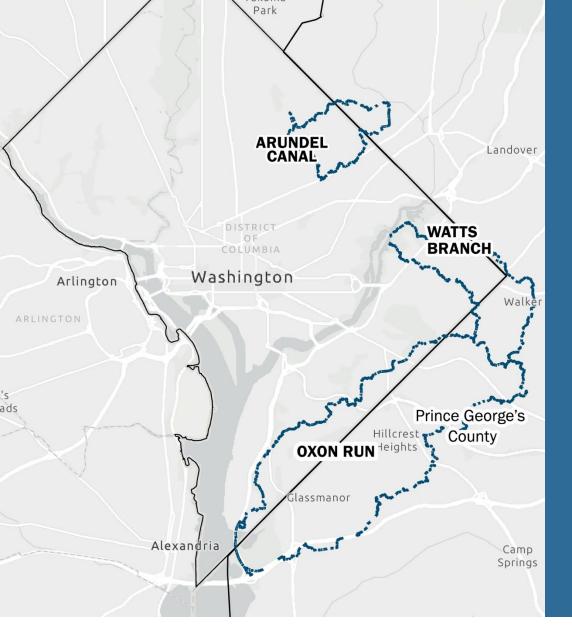


What's Next?

- Our work positions the Oxon, Watts, and Arundel Canal communities to secure partnerships and funding for implementation.
- Our process can be used and repeated by our partners in neighboring areas.









Panel Discussions

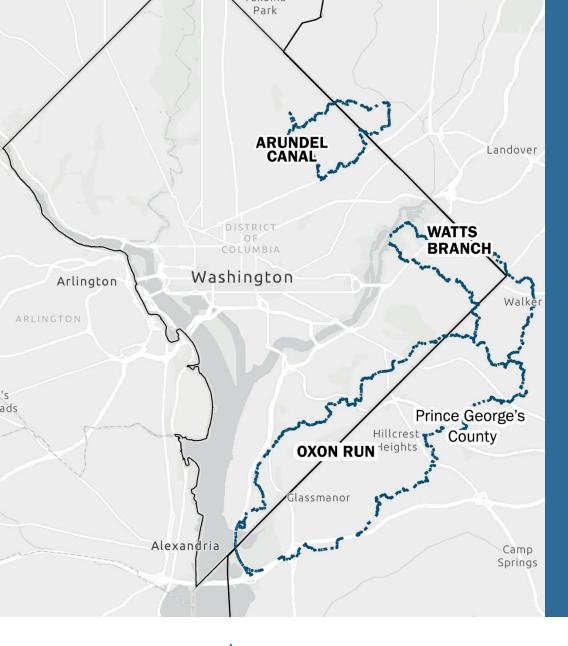
Panel 1: Funding in Uncertain Times: Feasibility of BGI Project Concepts

Moderator: Joe Arrowsmith, Straughan Environmental

Panel 2: Implementation
Partnerships: Lessons Learned for
Stakeholder and Community
Engagement

Moderator: Erin Jones, CHPlanning





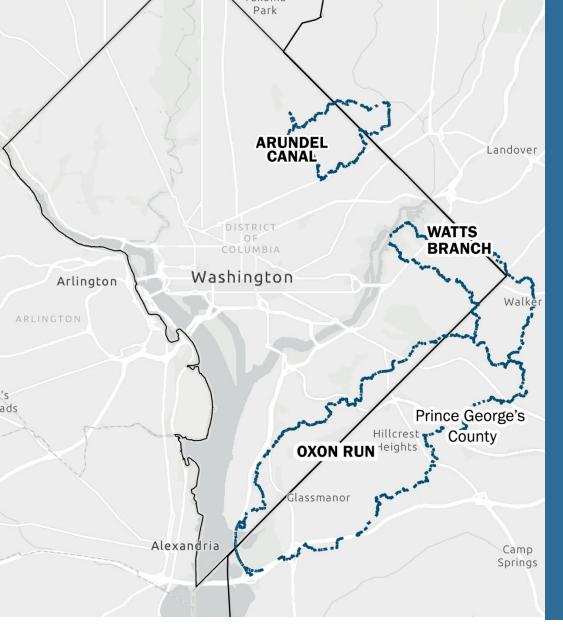
Panel 1: Funding in Uncertain Times: Feasibility of BGI Project Concepts

Moderator: Joe Arrowsmith, Straughan Environmental

Speakers:

- Vermecia Alsop, HSEMA
- Stephanie Dalke, UMD Environmental Finance Center
- Dr. Estelle-Marie Montgomery, FH
 Faunteroy Center & Resilience Incubator
- Kelly Collins Choi, Casey Trees
- Grace Dho, Chesapeake Bay Trust





Panel 2: Implementation Partnerships: Lessons Learned for Stakeholder and Community Engagement

Moderator: Erin Jones, CHPlanning

Speakers:

- Dennis Chestnut, Groundwork Anacostia
 River DC & Ward 7 Resilience Hub
 Community Coalition
- Brenda Lee Richardson, Friends of Oxon Run
- Madeline Daugherty, Mount Rainier
 Nature Center
- Ashley Drakeford, City of Seat Pleasant



Engagement Stations

Station 1: BGI Education

• Learn more about Blue-Green Infrastructure project types.

Station 2: "Find Your Project" Table

 Talk with Joe Arrowsmith from Straughan Environmental to help you find your next project!

Station 3: BGI Participation Spectrum

 Explore how your organization and others can be involved in future BGI implementation — from awareness to implementation.

Station 4: Resource Table

Hosted by DISB — guidance on flood insurance





Closing Remarks & Workshop Evaluation

- Thank you to our community partners who provided materials and the panelists!
- Stay Connected
 Have questions or want to stay involved? Email us at
- BGI@MWCOG.ORG.
- Project Updates
 Visit our website for the latest updates:
 www.mwcog.org/BGI



Open House Survey (Paper + QR code):

Please take a few minutes to complete the open house survey. Your feedback helps us understand how the open house was useful to you.



Residents who **complete** the survey will receive a gift card!

THANK YOU!

Stay connected! Be Engaged! Learn More by visiting our project website!



