Tree Canopy [discussion draft]

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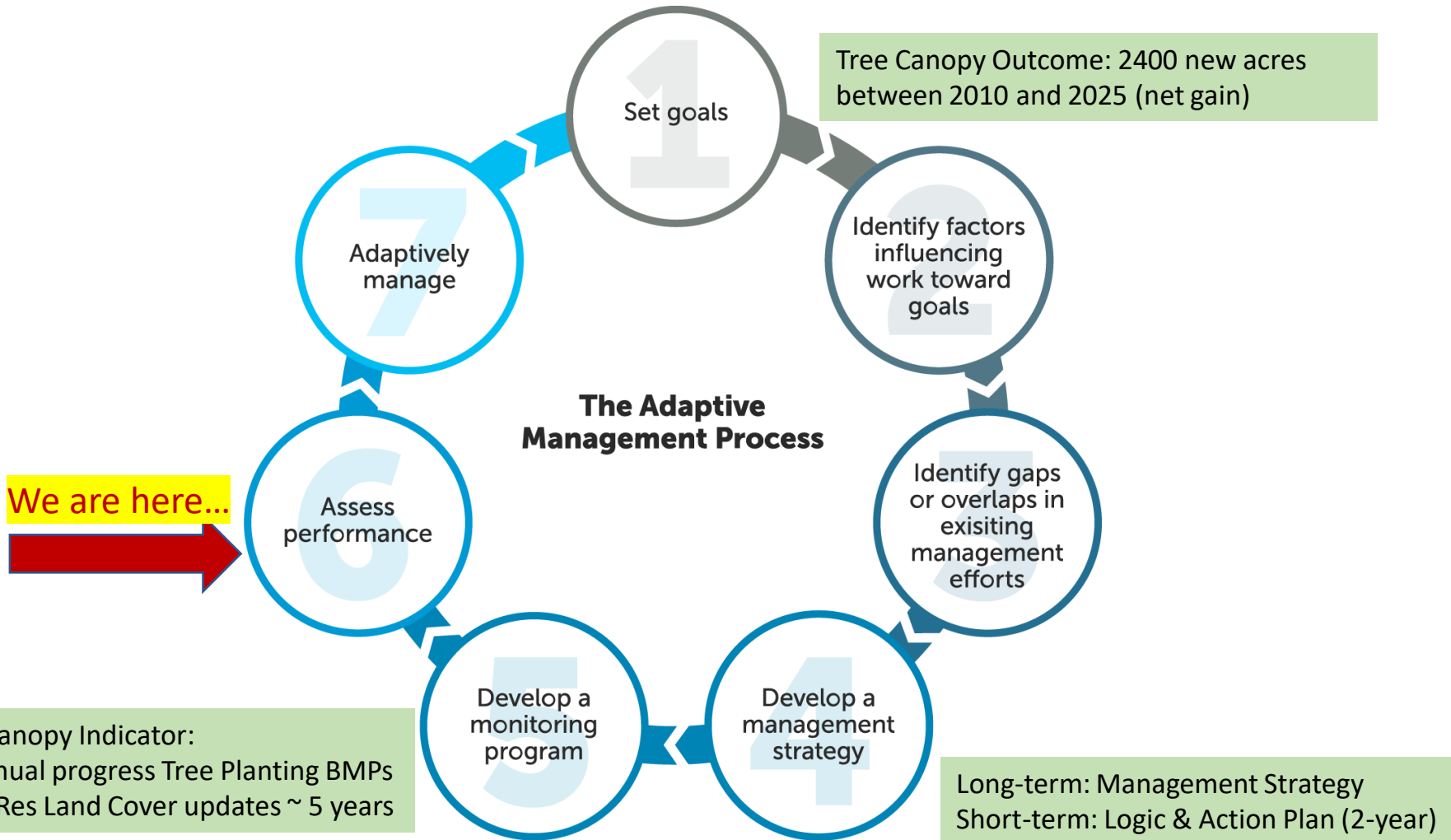
The Adaptive Management Process

1. Set goals
2. Identify factors influencing work toward goals
3. Identify gaps or overlaps in exisiting management efforts
4. Develop a management strategy
5. Develop a monitoring program
6. Assess performance
7. Adaptively manage

We are here…

Tree Canopy Outcome: 2400 new acres between 2010 and 2025 (net gain)

Tree Canopy Indicator:
- Annual progress Tree Planting BMPs
- Hi-Res Land Cover updates ~ 5 years

Long-term: Management Strategy
Short-term: Logic & Action Plan (2-year)

Goal: *Tree Canopy*

Outcome*:*

Continually increase urban tree canopy capacity to provide air quality, water quality and habitat benefits throughout the watershed. Expand urban tree canopy by **2,400 acres by 2025.**

What is our Expected and Actual Progress?

Planting Progress & Net Gain Target

Actual Progress-ACRES PLANTED **Target-NET GAIN**
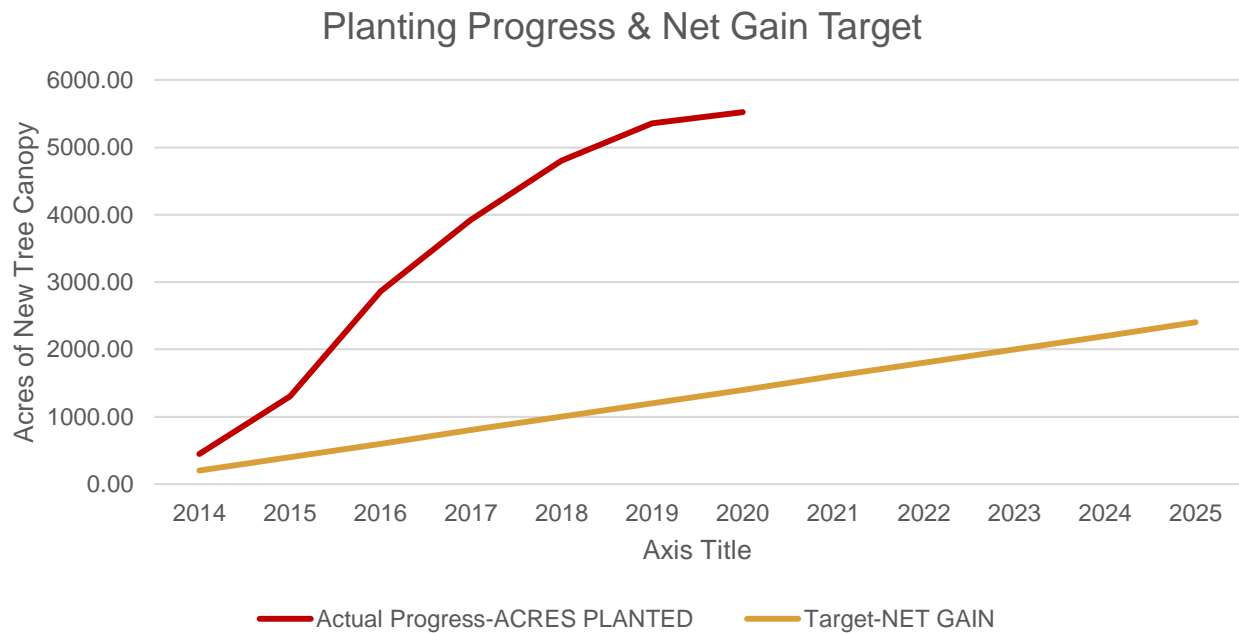
What is our Expected and Actual Progress?

Maryland Tree Canopy Change: Preliminary Analysis

County	Tree Canopy Gain (acres)			Tree Canopy Loss (acres)			
	Total	In 100ft Stream Buffers	In Critical Areas	Total	In Urban Areas	In 100ft Stream Buffers	In Critical Areas
Anne Arundel	188.24	5.33	78.68	2,543.78	1,860.08	83.04	425.51
Montgomery	656.14	52.06	-	6,364.05	4,807.08	666.69	-
Prince George's	518.15	23.42	44.38	7,567.04	5,397.82	649.29	334.24
Calvert	899.24	24.29	117.67	1,566.72	643.00	28.28	134.22
Charles	1,478.35	69.31	65.89	2,529.30	634.85	66.38	87.19
St. Mary's	1,524.98	75.11	266.67	1,897.06	318.22	42.82	208.71
Dorchester	2,111.68	151.91	517.18	1,730.68	26.35	68.92	429.74
Somerset	4,778.99	123.04	626.04	1,258.22	17.18	44.45	123.11
Wicomico	3,703.89	157.95	206.13	2,337.47	288.33	76.60	181.30
Worcester	6,900.44	587.63	350.19	3,514.53	119.08	226.46	193.86
TOTAL	22,760.11	1,270.03	2,272.83	31,308.86	14,111.98	1,952.93	2,117.86

■ = BW Corridor

■ = Southern MD

■ = Lower ES
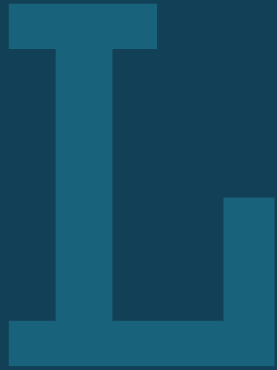
Learn

What have we learned in the last two years?

Successes – Summit 2.0

You're Invited!

Save the date for the 2020 Chesapeake Tree Canopy Summit

When: Tuesday, January 14, 2020, 10:00 am to 4:00 pm
Wednesday, January 15, 2020, 9:00 am to 3:00 pm

Where: Patuxent Research Refuge - U.S. Fish and Wildlife Service
National Wildlife Visitor Center
10901 Scarlet Tanager Loop
Laurel, MD 20708

Register Now!

Summit Objectives:

- Build participant knowledge and understanding, and advance individual community tree canopy efforts, through hands-on training, facilitated discussion, and presentation by subject matter experts;

- Inform future state and sub-regional trainings and catalyze collaboration with new cross-sector partners; and

- Identify opportunities for continuous improvement in approach to meeting tree canopy goals.

Successes – Summit 2.0

BOLSTER
Funding & Partnership

Financing Urban Tree Canopy Programs
Guidebook for Local Governments in the Chesapeake Bay Watershed
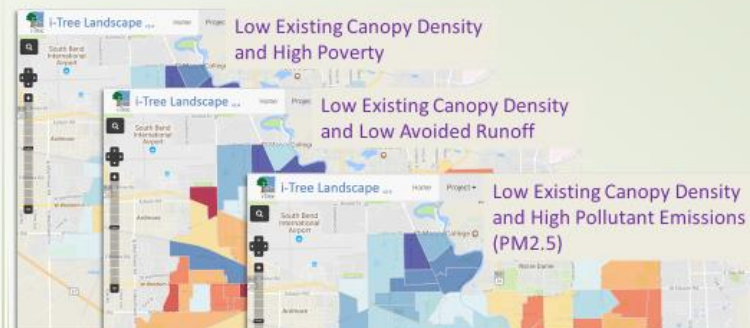
Prepared by
the Environmental Finance Center at the University of Maryland
and the Alliance for the Chesapeake Bay

MARCH 2019

STRENGTHEN
Policy & Ordinances

Making Your Community Forest-Friendly
A Worksheet for Review of Municipal Codes and Ordinances
August 2018
Produced by the Center for Watershed Protection   Funded by the USDA Forest Service

CENTER FOR WATERSHED PROTECTION

This project was made possible through funding from the USDA Forest Service. USDA is an equal opportunity provider, employer and lender.

INCREASE
Technical Capacity & Knowledge

Inform Community Decisions and City Priorities

i-Tree Landscape — Low Existing Canopy Density and High Poverty

i-Tree Landscape — Low Existing Canopy Density and Low Avoided Runoff

i-Tree Landscape — Low Existing Canopy Density and High Pollutant Emissions (PM2.5)

EXPAND
Community Outreach & Education

ecoLatinos

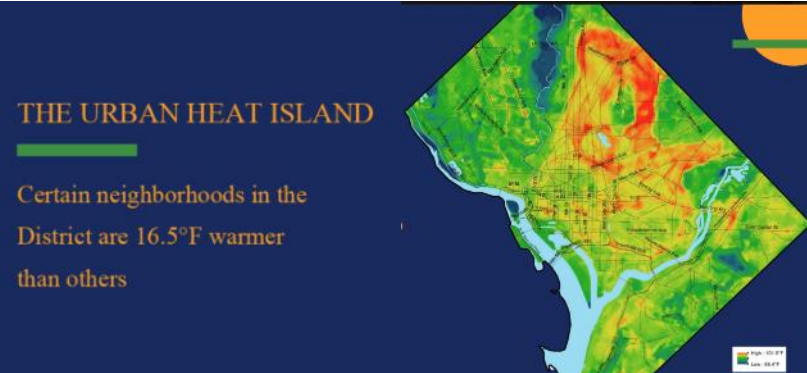**Trees, Equity and Cultural Competency**

**ACTION 1.1** Implement state programs and grants to incentivize tree canopy progress

Successes – States

- Virginia

- Delaware & Maryland

- DC

Successes - States

- West Virginia

- New York

- Pennsylvania

Arbor Day Foundation
Headwaters Award 2018
Cacapon Institute
Protecting Rivers and Watersheds Since 1985

Arbor Day Awards: Headwaters Award
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Congratulations to
Upper Susquehanna Coalition
HEADWATERS AWARD
Arbor Day Foundation

MENU BAY JOURNAL   About   Contact Us   e-Edition
Pennsylvania initiative to convert 10,000 acres of lawns into meadows, forests
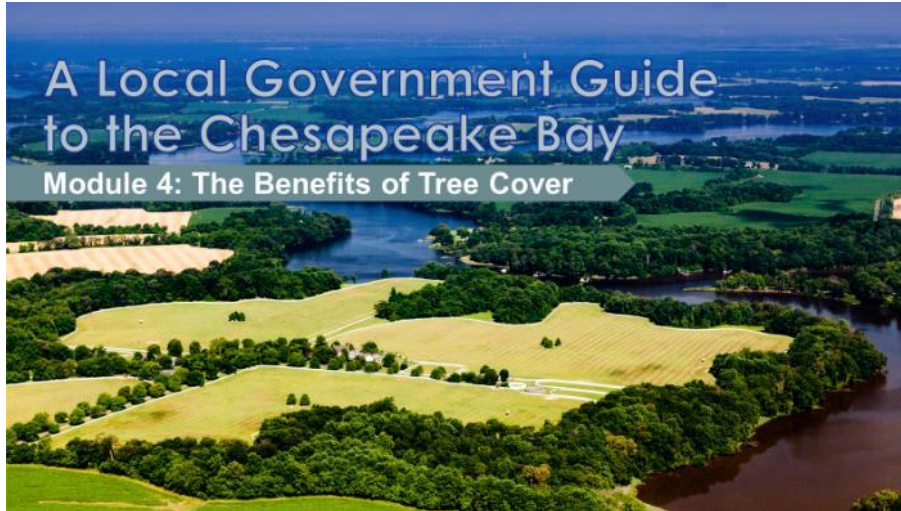
This backyard in Lancaster County, PA, is slowly being turned into woods.

Successes – Cross Outcome

Environmental Literacy

Trees and Schools: Growing the Connection
A Resource Guide for Chesapeake Communities

Photo: Tree planting with students at St. Anne's School in Delaware; courtesy of Delaware Forest Service

Draft Version for Stakeholder Input, December 2020
Written by Maya Claggett in collaboration with the Chesapeake Bay Program Forestry Workgroup. Please send inquiries or suggestions for future versions of this Guide to *Julie Mawhorter*, Chesapeake Tree Canopy Coordinator by March 1, 2021.

Local Leadership

A Local Government Guide to the Chesapeake Bay
Module 4: The Benefits of Tree Cover

https://chesapeaketrees.net/category/schools/

Challenges & Lessons Learned

- COVID Impacts
- Local government capacity/incentives to maintain and expand tree canopy
- Delayed Workplan Action: Funding & Policy Roundtable

On the Horizon

▪New Land Cover Data & Analysis (2021)
▪Latest Research on Tree Canopy, Urban Heat & Environmental Justice
▪Continued COVID Impacts
▪Climate Initiatives focused on trees (e.g. Trillion Trees)

Adapt

How does all of this impact our work?

Based on what we learned, we plan to ...

▪ *Assessing and Communicating Tree Canopy Status & Change to Stakeholders*

In 2021-2022, working with the new land cover and change analysis data will be a major focus, in order to test and refine our Tree Canopy Indicator and distill the most useful findings to inform future goals, policy and strategies. We will develop a Bay-wide summary report on Tree Canopy status and change that will serve as a springboard for convening the Funding & Policy Roundtable mentioned above. In addition, through a supplemental US Forest Service grant to the Chesapeake Conservancy, and with input from the Forestry Workgroup, we will be developing digital communication products to share the latest tree canopy/land cover data and change analysis at the local scale (e.g. county fact sheets, municipal where feasible). These efforts will be closely coordinated with the Local Leadership Workgroup, so that we can also take advantage of opportunities to engage and educate newly elected local officials in 2022 and beyond.

Based on what we learned, we plan to ...

Sharing data, tools & best practices for Tree Equity

▪We will work with CBP's new Data Dashboard tool (environmental justice components) and develop a toolkit of data, tools and resources to support local tree equity initiatives. Having the data to help target efforts is important, but we are still wrestling will big questions around how to properly engage and collaborate with communities and ensure that trees planted will be sufficiently maintained. In these low canopy/highly paved areas, we need to engage different agencies and funding streams to help with removing impervious surfaces and building viable planting spaces so that the trees can survive and thrive. Although our 2020 GIT proposal was not selected for funding, we will work with stakeholders to further refine and develop training and technical assistance needs and pursue funding opportunities to deliver these. These efforts will be pursued through participation and alignment with CBP's DEIJ actions and Diversity Workgroup collaboration.

Based on what we learned, we plan to ...

Enhance virtual learning and other accessible training and technical assistance; plan for a post-COVID biennial Tree Canopy Summit in 2022

While we are still in "virtual mode" due to COVID, we will look for opportunities to offer additional webinar trainings and engagement opportunities in 2021 and beyond. At the 2020 Tree Canopy Summit, we heard significant interest in continuing these periodic regional gatherings on a regular (e.g. biennial) basis, so we will scope out opportunities to host the next one in 2022, including virtual options for those who cannot travel to or attend long face-to-face meetings. In addition, we need to plan for gatherings where we can cross-pollinate with other partnership efforts like local government, schools, communications, etc. so that we can build tree canopy more into those efforts.

Based on what we learned, we plan to ...

Continue building on prior partnership work around priority issues and needs
While this is not a change in focus, we want to emphasize the importance of continuing and expanding our collaboration with partners around key priorities: local leadership/engagement, DEIJ with a focus on health, heat and resilience, communication plan/strategies, stormwater/WIP implementation, and school-based opportunities.

Help

How can the Management Board lead the Program to adapt?

Help Needed

Some ideas to get us started...

▪Continue to grow DEIJ investments in communities, with tree equity as a priority

▪Participation in the Funding & Policy Roundtable – sending the right representatives when the time comes (we will provide briefing/details)

▪Continue and grow the support for critical state urban and community forestry programs, through leveraging other available programs (e.g.public health, environmental justice, stormwater/water quality/infrastructure, climate resilience, sustainability, environmental education, etc.)

Discussion