

Land Use Options Evaluation

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Coordinator

Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...

Land Conservation Goal

Conserve landscapes treasured by citizens in order to maintain water quality and habitat; sustain working forests, farms and maritime communities; and conserve lands of cultural, indigenous and community value.

Outcome

- Evaluation of <u>policy options</u>, <u>incentives and planning tools</u> that can help local governments reduce the rate of conversion of agricultural lands, forests and wetlands by the end of 2017
- Development of <u>strategies</u> to support local government efforts in <u>reducing land conversion</u> rates by 2025 and beyond

Full outcome language



What We Want



Support integration into existing CBP efforts

- Invite subject matter experts to present to your relevant groups
- Increase collaboration and incorporate policies, plans, and incentives for reducing land conversion into your work
- Tap into sources for local government engagement and outreach to develop "strategies"

Signatory and initial Participating Partners

Chesapeake Bay Watershed Agreement Signatories

- State of Delaware
- State of Maryland (Department of Planning)
- District of Columbia
- Commonwealth of Pennsylvania
- Commonwealth of Virginia
- U.S. Environmental Protection Agency (EPA)
- Chesapeake Bay Commission (CBC)

Other Key Participants

- Local Government Advisory
 Committee (LGAC)
- U.S. Fish Wildlife Service (USFWS)
- U.S. Geological Survey (USGS)
- National Park Service (NPS)
- USDA Natural Resources
 Conservation Service (NRCS)
- The Nature Conservancy (TNC)



Maintain Healthy Watersheds GIT Renee Thompson, Coordinator Katherine Wares, Staffer

Note: We are not seeking to form a new workgroup. We aim to better tie into existing efforts.





Setting the Stage:

What are our assumptions?



Context & Background

Cost to Protect

VS.



Cost to Restore

Reducing the rate of conversion helps maintain:

- Clean water and healthy waters
- Resilience (flooding, climate change, invasives)
- Social and economic benefits
- Drinking water sources
- Critical habitat and connectivity
- Recreational opportunities



Logic Behind Our Outcome

Following the Decision Framework:

Factors Influencing

- Political and Education Challenges (legislative engagement)
- Sustaining the Ag and Forestry Industries (funding and finances)
- Ability to Engage Local Governments in Conducting the Evaluation (education and outreach)
- Technical Challenges

Current Efforts & Gaps

- CBP and HWGIT capacity
- Knowledge of how to package materials effectively for local governments
- Knowledge of how to reach our audience (local governments, planners, and officials)



Logic Behind Our Outcome, Cont.

Following the Decision Framework:

Management Approaches

- 1. Determine the spectrum of existing "policy options, incentives and planning tools"
- 2. Gather materials and putting them on a platform local leaders can/will access (in consultation with CBP Comm/Web Team)
- 3. Survey local governments and interest groups to determine most effective "policy options, incentives and planning tools"



Progress:

Are we doing what we said we would do?



Target:



By the end 2017, evaluate policy options, incentives and planning tools that could assist local gov'ts in reducing the rate of conversion

Progress:

- Approach to Chesapeake Bay Land Use Policy Tasks
- Conservation Land-Use Policy Toolkit
- Healthy Watersheds Forest Retention Project



Target:



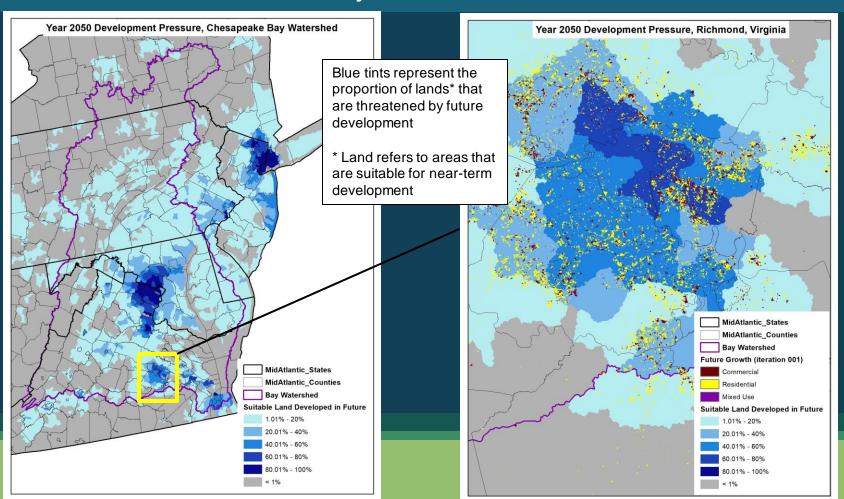
By 2025 and beyond, develop strategies for supporting local gov'ts in reducing land conversion rates



In Progress:

- In close consultation and coordination with Land Use Methods and Metrics, Local Government Advisory Council, Local Leadership, Communications, Web and GIS Teams.
- Land Policy BMPs

Vulnerability to Land Conversion





Approach to Land Policy Tasks (2015)

- Provided recommendations on how to achieve the outcome and outlined 3 tasks
- Survey to identify effective options and needs
- 2) Identify existing policy options, incentives, and tools
- 3) Online repository of policy examples
- Deliverables: Report



APPROACH TO CHESAPEAKE BAY LAND USE POLICY TASKS

Introduction

The Chesapeake Bay Watershed Agreement (Agreement) was signed in 2014 and established goals and outcomes for the restoration of the Bay, its tributaries and the lands that surround them. One of the goals specified in the Agreement is land conservation – to conserve landscapes treasured by citizens in order to maintain water quality and habitat; sustain working forests, farms and maritime communitain and conserve lands of cultural, indigenous and community value. This Approach to the Chesapeake Bay Land Use Policy Tasks document will assist EPA in achieving their land conservation goal and advancing the restoration and protection of the Bay watershed. Specifically, this document addresses the Land Use Options and Evaluation Outcome in the Agreement which states:

By the end of 2017, with the direct involvement of local governments or their representatives, evaluate policy options, incentives and planning tools that could assist them in continually improving their capacity to reduce the rate of conversion of agricultural lands, forests and wetlands as well as the rate of changing landscapes from more natural lands that soak up pollutants to those that are passed over, hardscaped or otherwise impervious. Strategies should be developed for supporting local governments' and others' efforts in reducing these rates by 2025 and beyond.

The three options discussed in this document identify approaches to evaluating policy options, incentives and planning tools that could assist the Chesapeake Bay states in continually improving their capacity to reduce the rate of conversion of agricultural lands, forests and wetlands as well as the rate of changing landscapes from more natural lands that soak up pollutants to those that are paved over, hardscaped or otherwise impervious. See Appendix A for a list of policy incentives and tools that were used to guide these tasks.

To facilitate the process of identifying and evaluating such options and tools, the Chesapeake Bay Maintain Healthy Watersheds Goal Implementation Team (GTT), which houses the Land Use Options and Evaluation outcome, identified three tasks and requested that Tetra Tech develop an approach for conducting these tasks:

- Conduct a professional survey of local government and interest groups to identify which policy
 options, incentives, and planning tools have been most effective at reducing land conversion rates,
 and to determine if additional information and tools, such as an online repository of effective landuse policy options, incentives, and planning tools are needed to achieve a reduction in land
 conversion rates.
- Conduct a comprehensive review/study to determine the range of existing land-use policy options, incentives and planning tools currently being implemented at the local and state level.
- Create an online repository of such examples (of studies identified in Task 2) to serve as a userfriendly knowledge base, including studies and reports of the costs, benefits, and effectiveness of such examples.





Conservation Land-Use Policy Toolkit (2017)

- Determined existing policy options, incentives, and planning tools that could be used by local government planners to reduce the rate of ag, forest, and wetland conversion
- Deliverables: <u>Toolkit</u>, <u>Webinar</u>



Chesapeake Bay Trust

Conservation Land-Use Policy Toolkit June 2017

> Rebecca Lewis, PhD, University of Oregon David Newburn, PhD, University of Maryland Kelsey Zlevor, MCRP, Cameron McCarthy Gerrit Knaap, PhD, University of Maryland and National Center for Smart Growth Research and Education



















Healthy Watersheds Forest Retention Project (2014 – present)

- Phase I: Quantified the value of retaining forestland (economic case for "crediting conservation")
- Phase II: VA/PA partnership Worked with localities to identify policy tools and incentives
- Phase III: Implement tools in the field and develop large-scale private sector financing model



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HEALTHY WATERSHEDS FOREST RETENTION PROJECT

PHASES 1 & 2

FINAL REPORT

A Virginia and Pennsylvania partnership focused on expanding the use of forestland to meet Chesapeake Bay Watershed goals from the perspective of the local leaders who are responsible for making it happen.

Prepared for:

The Chesapeake Bay Program Partnership Healthy Watersheds Goal Implementation Team, Land Use Workgroup and Forestry Workgroup

The Local Government Advisory Committee to the Chesapeake Bay Executive Council

The US EPA Chesapeake Bay Program Office

The Commonwealths of Virginia and Pennsylvania

The Rappahannock River Basin Commission

The George Washington Regional Commission

The Chesapeake Bay Commission

The Nature Conservancy

The Chesapeake Bay Trust

The US Endowment for Forests and Communities

The Virginia Environmental Endowment

June 30, 2017

• Deliverables: <u>Toolbox</u>



What's in the "Toolboxes"?







Link Crediting Land Conservation and Planning in the Bay TMDL with "strategies to reduce land conversion"

- Land Policy BMPs represent coordinated state approaches to implement measures that reduce land conversion rates.
- Place an emphasis on each state's roles in supporting and/or encouraging local government efforts to reduce land conversion rates with a combination of land protection and planning strategies.



Challenges:

Are our actions having the expected effect?



Education and Outreach to Local, State Governments (use partner coordination to address)

Factors

HWGIT capacity

Gaps

 Knowledge on how to package materials and reach audience (use partner coordination to address)

Approaches

and put them on a

platform

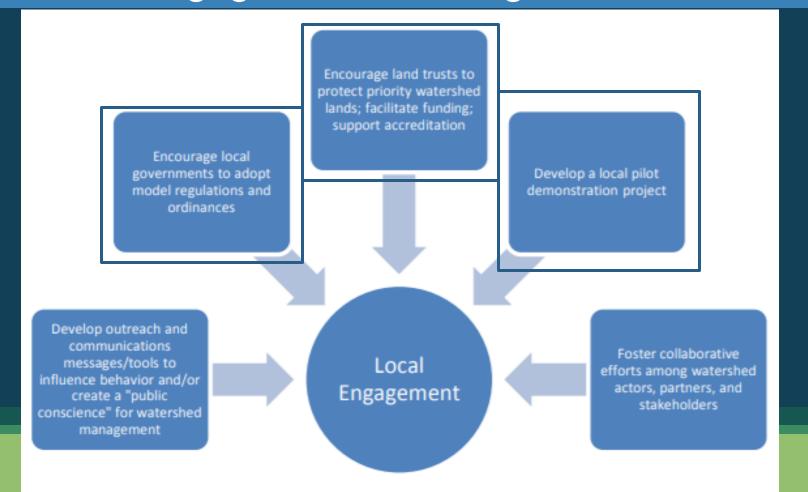
(use

partner coordination to address)

Gather materials

• Survey to determine effective options

Local Engagement Challenges and Needs





Adaptations:

How should we adapt?



Increase Partner Coordination

 Work with CBP groups (LUWG, LGAC, Local Leadership and Comm and Web Team) to distill information into effective materials for local practitioners who influence land use change.

Collaborate with existing CBP Efforts

- Work with other outcomes to incorporate policies, plans, and incentives for reducing land conversion into workplans and projects
- Work more directly with Land Use Methods and Metrics outcome to sync rates of change with "tools" to help locals address vulnerabilities.

Improve Local Government Education and Outreach

• Potentially using the LGEI model to get information out to locals

Cross Outcomes Considerations



Vital Habitats Goal

- Brook Trout
- Fish Habitat
- SAV
- Tree Canopy



Land Conservation Goal

- Protected Lands
- Land Use Methods and Metrics



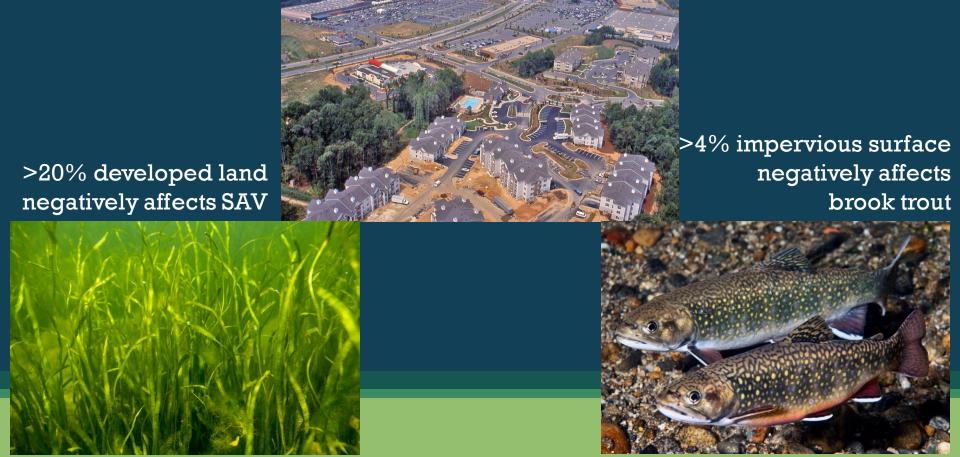
Healthy Watersheds Goal
Healthy Watersheds



Stewardship Goal

Local Leadership

Cross Outcome: Factor Influencing Success – Land Use



What We Want



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Discussion