



# **Part 2: Case Studies**

# Panel Objectives

- Examples of progress toward outcomes: restoration, conservation, and citizen-oriented
- Progress, challenges, adjustments in management approach
- Application to SRS quarterly meetings
- Lightning talks and discussion

# Speakers for the panel

Jennifer Greiner, USFWS: Fish Passage

Jonathan Doherty, NPS: Land Conservation

Kasey Wetzel, CB Trust: Citizen Stewardship

Scott Phillips, USGS, Moderator



# **Restoration: Fish Passage**

**as told by Jennifer Greiner,  
USFWS, Habitat GIT  
Coordinator**

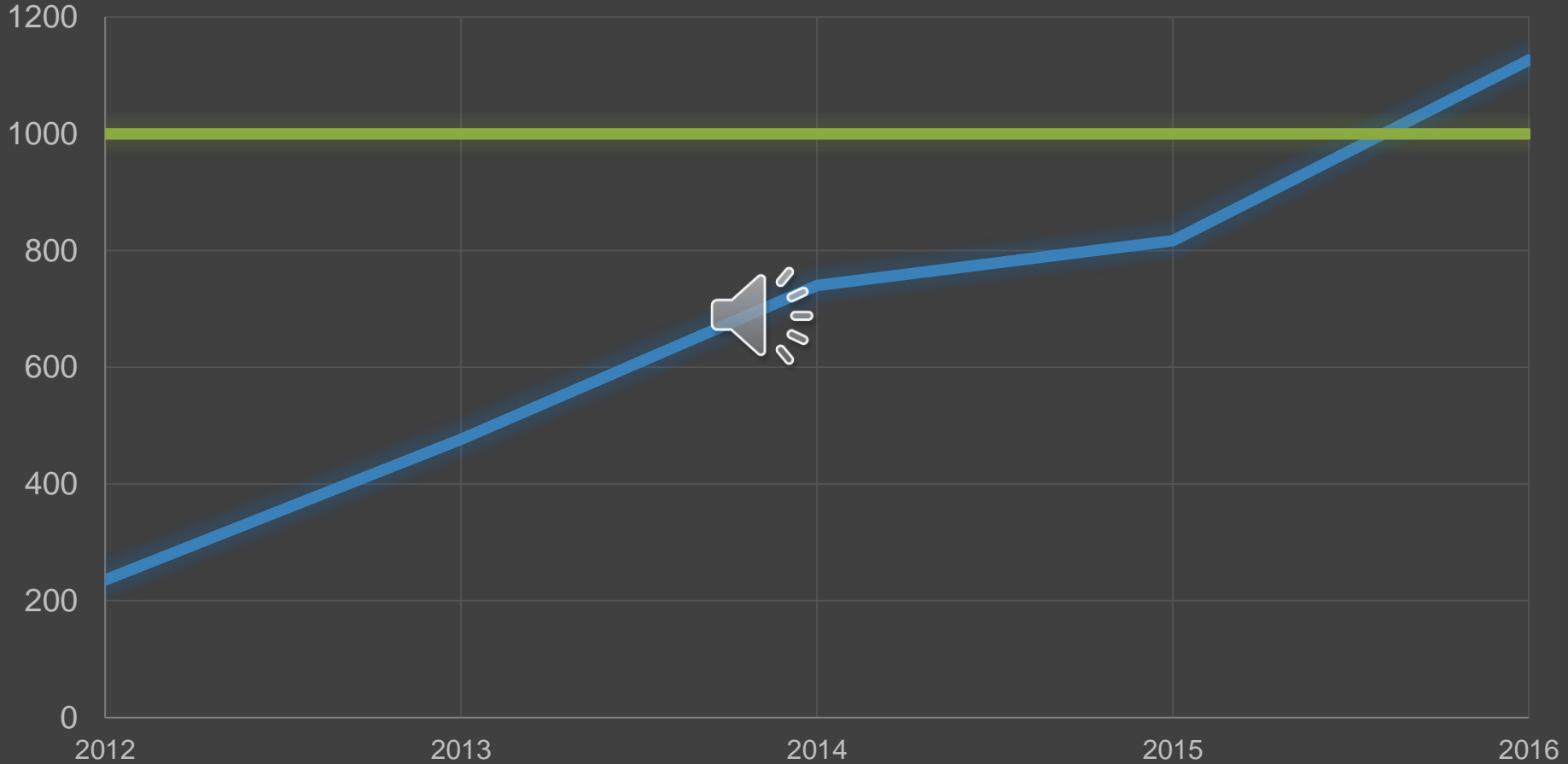
*Through the Chesapeake Bay Watershed Agreement, the Chesapeake Bay Program has committed to...*

**Restore historical fish  
migratory routes by  
opening 1,000 additional  
stream miles**

**Target Species: Alewife, Blueback Herring, American Shad, Hickory  
Shad, American Eel and/or Brook Trout**

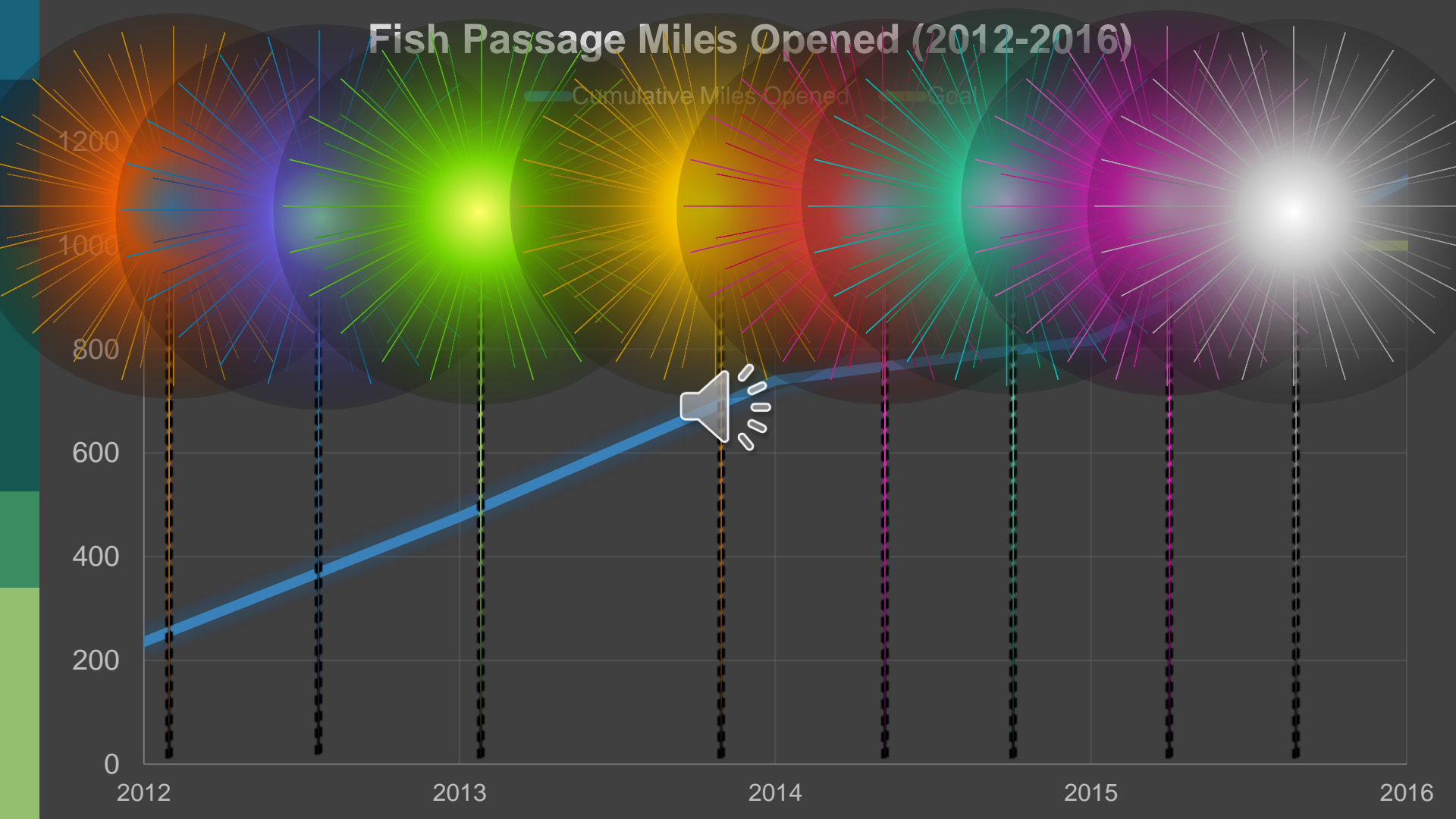
# Fish Passage Miles Opened (2012-2016)

Cumulative Miles Opened Goal



# Fish Passage Miles Opened (2012-2016)

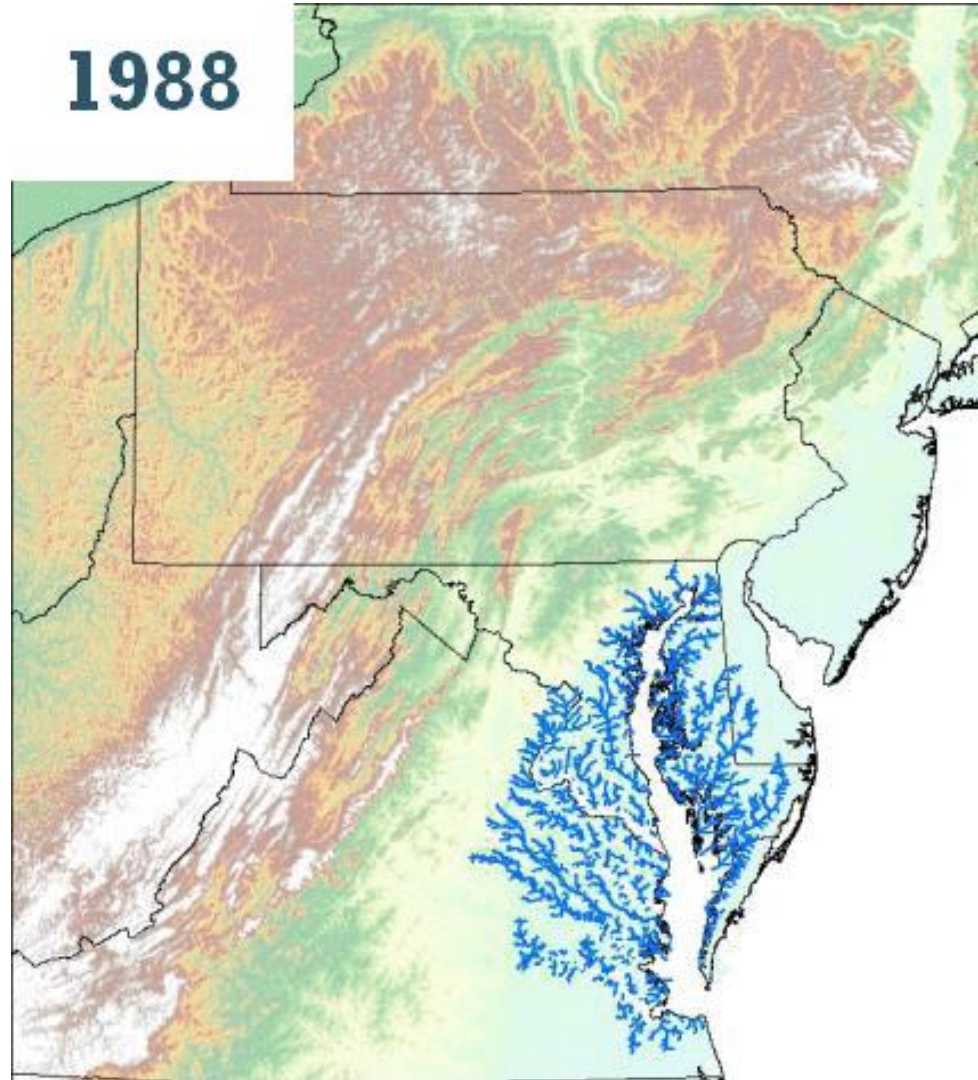
Cumulative Miles Opened Goal



**1988**

# **Waterways Opened in the Chesapeake Watershed**

**1988-2015**





1

# **Our Management Approach**

**A Spotlight**

Use the Chesapeake Bay Fish Passage Prioritization Tool to implement high priority dam removal and fish passage projects.



## Management Approach and Influencing Factors

- Prioritization tool ranks dams based on **connectivity status & improvement potential**, as well as **watershed condition**.
- Projects can be **expensive and time-consuming**, so with **over 5,000 dams** in the watershed, prioritization is vital

Simkins Dam Removal; Photo: Mary Andrews, NOAA



2

# Results



## Results

### Success Seen

- Incorporating culverts into the tool



White Oak Run, VA. Photo: Alan Weaver, VA DGIF

### Challenge Encountered

- Privately owned dams



Devils Run – Hazel River. Photo: Alan Weaver, VA DGIF

3

**What happens  
next?**



**Informed by our results,  
we plan to...**



- **Continue using the prioritization tool and pursue dam removal projects.**
- **Increase efforts to identify/retrofit degraded culverts.**

4

**How will this  
inform our  
strategic  
review?**



# Strategic Review System

New factors to consider:

- Emphasis on **culvert retrofit/removal**
- Enforcement from **dam safety** programs

Role for the Management Board:

- **Host dialogue** between Fish Passage Coordinators and Dam Safety Officers?

**THANKS!**

**Any questions?**

You can find me at  
[jennifer\\_greiner@fws.gov](mailto:jennifer_greiner@fws.gov).



# Protected Lands Outcome

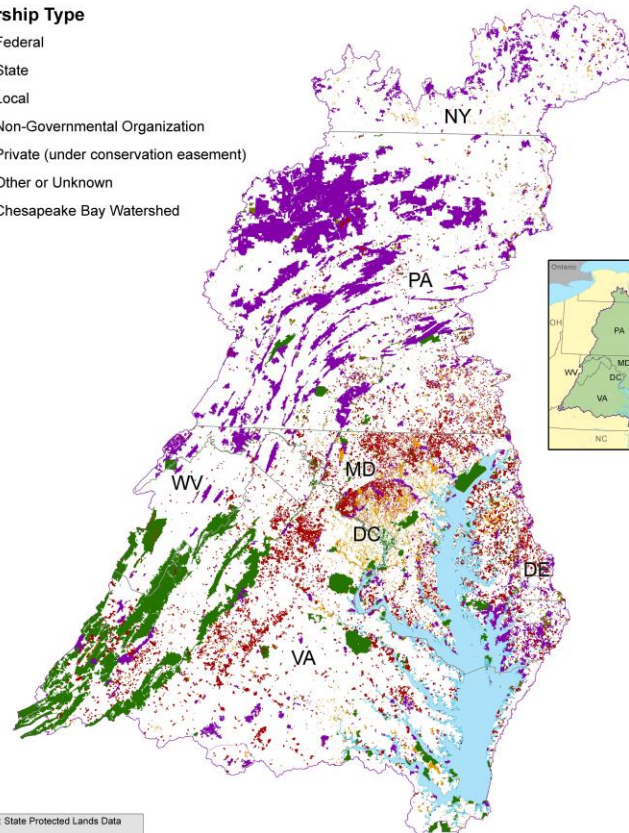
Jonathan Doherty  
National Park Service

## Protected Lands in the Chesapeake Bay Watershed 2015 - 2016



### Ownership Type

- Federal
- State
- Local
- Non-Governmental Organization
- Private (under conservation easement)
- Other or Unknown
- Chesapeake Bay Watershed



Data Sources: State Protected Lands Data Stewards, Protected Areas Database V. 1.3, National Conservation Easement Database V. June 2014.



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

**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.

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

**By 2025, protect an additional two million acres** of lands throughout the watershed—currently identified as high-conservation priorities at the federal, state or local level—including 225,000 acres of wetlands and 695,000 acres of forest land of highest value for maintaining water quality.

# Progress

	2010	2011	2013	2015-16
Total Acres Protected Lands	7,800,000	8,013,132	8,409,076	8,804,577
Acres toward Goal	--	213,132	609,076	1,004,577
Percent of Goal Achieved	--	10.7%	30.5%	50.2%

# Our Management Approach

Increase funding, incentives, and mechanisms for protecting conservation priorities

**Collaboratively identify strategic conservation priorities**

Identify, fund and implement creative and inclusive ways to acquire data and connect systems

Increase the capacity and effectiveness of land trusts

Increase public support for and engagement in land conservation

Build an active network of land conservation organizations in the Bay





# The long term ask

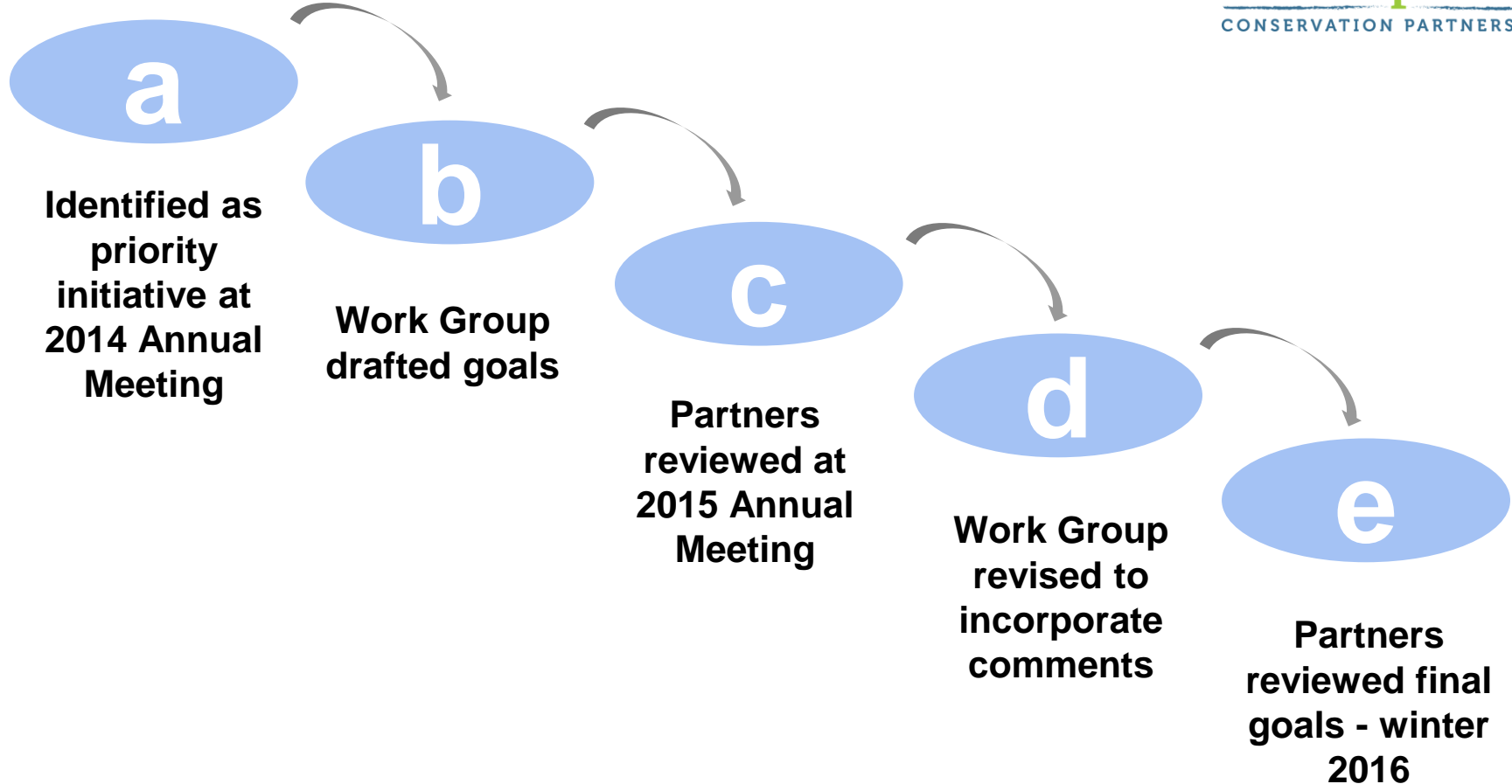


# Advancing the Case for Landscape Conservation

- 1 Set Long-term Goals**
- 2 Document & Illustrate Them**
- 3 'Grow the Pie' Strategies**
- 4 Track Progress**



**A set of **inclusive** and  
**cumulative long-term**  
landscape conservation goals  
**reflecting what we all want to**  
conserve in the **Chesapeake**  
watershed.**



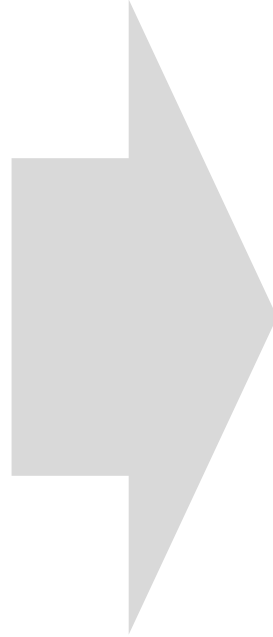
**Farms**

**Forests**

**Habitat**

**Heritage**

**Health**



All interconnected:

**Vibrant economy**

**Strong communities**

**Healthy people**

**Working farms/forests**

**Thriving native wildlife**

**Clean water**

**Healthy watersheds**

**Shared heritage**

**Recreation**

**Quality of life**



—

Existing  
Protected  
Lands

=

Long-term  
Conservation  
Need





Long-term  
Conservation  
Need

+

Threats

Influences

Regional  
Focal Areas

Areas of  
Opportunity



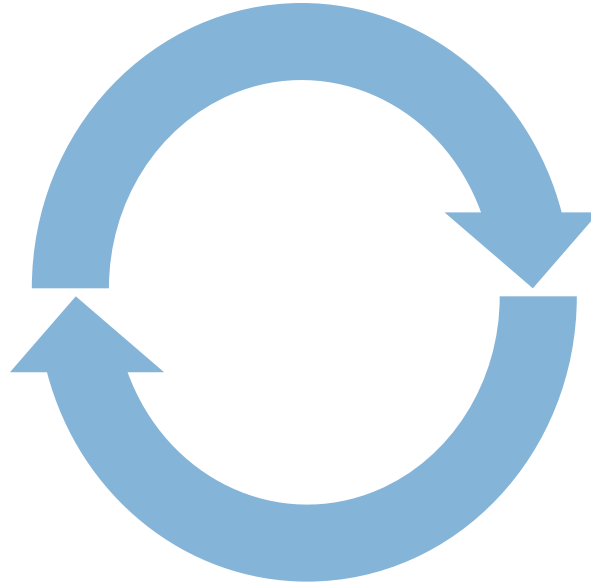
**Management  
Approach &  
Influences**

**Strategic  
Opportunities**

**More  
Effective**

**Stronger  
Support**

**More  
Resources**





# What's Next?



**THANKS!**

**Any questions?**

You can find me at [jonathan\\_doherty@nps.gov](mailto:jonathan_doherty@nps.gov)



# **Citizen Stewardship Outcome**

**Kacey Wetzel**

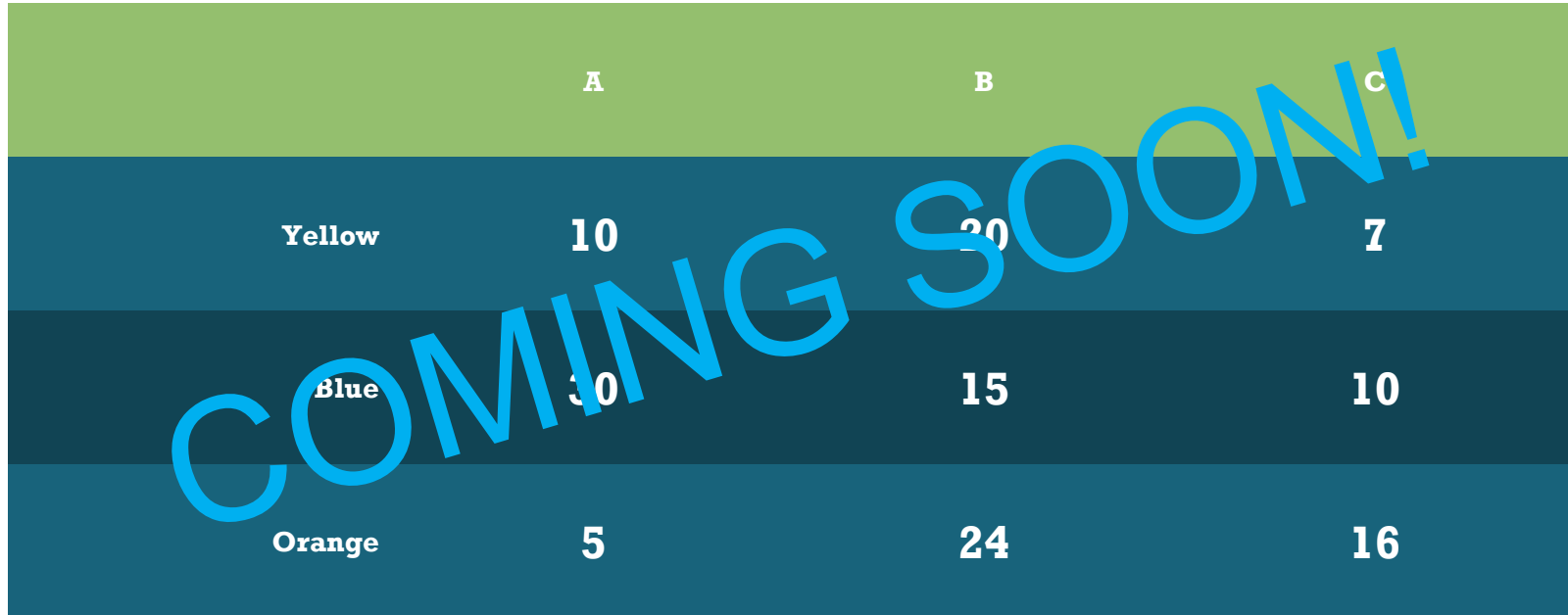
**Chesapeake Bay Trust**

**Stewardship Workgroup Co-Chair**

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

Increase the number and diversity of  
trained and mobilized citizen  
volunteers with the knowledge and  
skills needed to enhance the health  
of their local watersheds.

# Change over time



# Citizen Stewardship Framework

*Increasing citizen actions for watershed health*



1

# **Our Management Approach**

**A Spotlight**

‘The Chesapeake Bay Program will develop a practical and value-added method to track changes in public attitudes, behaviors, and actions related to stewardship and use the results to guide future management strategies’





## Management Approach and Influencing Factors

### Influencing Factors:

- Lack understanding of stewardship and behavior adoption and how it is changing over time
- Many outreach and education programs don't understand their target audience

### Management Approach:

- Indicator development will provide valuable guidance for local jurisdictions, NGOs, and others who are designing behavior change and public outreach campaigns in pursuit of water quality goals

2

# Results



## Results

### Success Seen

- Tool has been developed that includes questions on stewardship behavior, likelihood of adoption, volunteerism, and individual engagement.
- Demographic questions will allow for cross tabbing of data

### Challenge Encountered

- Funding to complete baseline
- Funding for future research
- We may uncover additional factors influencing after collect baseline data...

3

**What happens  
next?**



**Informed by our results,  
we plan to...**



**Continue with this management approach**

- **Conduct research in spring**
- **Release data early summer**
- **Replicate every 3-4 years**
- **Budget implications**
- **Develop guidance for stewardship efforts**

4

**How will this  
inform our  
strategic  
review?**

# Strategic Review System

- Data will affect other outcomes.
- How other outcome leads can use data collected to target achievement of their outcomes and strategies.

## Assistance Needed:

- Sharing availability of the data and direction/support from the Management Board on how it can be incorporated into other outcome activities at the watershed, state and local level.

**THANKS!**

**Any questions?**

You can find me at [KWetzel@cbtrust.org](mailto:KWetzel@cbtrust.org)



# Panel Discussion

- *Have you learned anything new since developing the outcome work plan that may cause adjustments in the management approach?*
- *What adjustments may you have to consider based on the new information?*
- *How can the SRS quarterly meetings be best carried out to discuss potential adjustments and get support to carry them out?*