



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Chesapeake Bay Program Office

Chesapeake Bay Office

Program Overview

*Citizens Advisory Council
October 16, 2018*

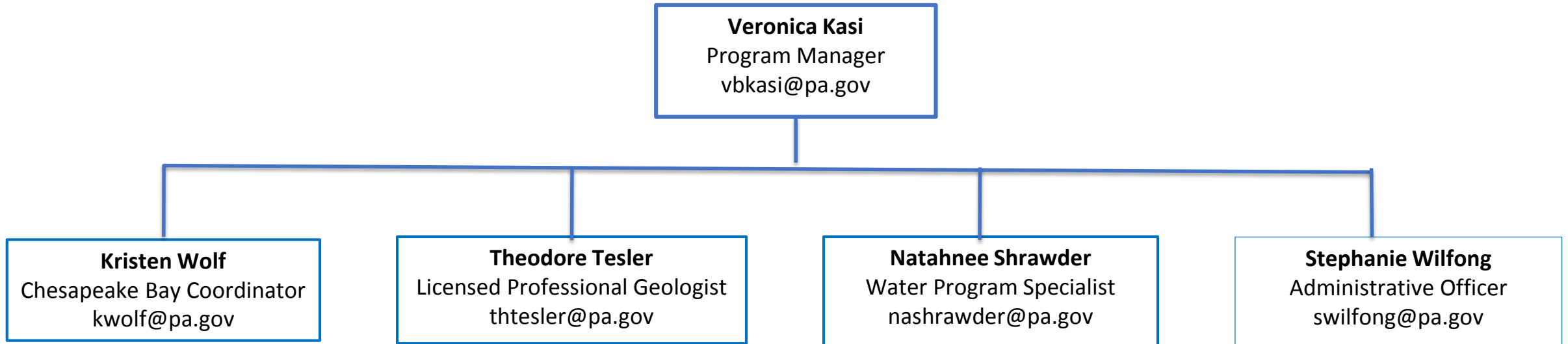


Today's Agenda

- Office Composition
- Administration, Project Management, Reporting, Coordination
- 2014 Watershed Agreement
 - Bay Partnership Coordination
- 2010 Bay Total Maximum Daily Load
 - Phase 3 Watershed Implementation Plan (WIP)



Organization



Funding

- EPA Chesapeake Bay Regulatory and Accountability Program Grant **(\$2,666,819)**
 - Agriculture Compliance and Technical Assistance
 - BMP Verification
 - MS4 Training
 - Data Management and Tracking
 - Phase 3 WIP Development
- EPA Chesapeake Bay Implementation Grant **(\$2,515,700 + \$1,190,544)**
 - Agriculture and Stormwater Projects
 - Education and Outreach
- Chesapeake Bay Abatement Program Fund (State Money) **(\$2.67 Million)**
 - Match



Funding: Staff

- Conservation Districts
 - Bay Technicians – 33.5 FTEs, \$2.1 million
 - Nutrient Management Technicians – 39.5 FTEs, \$2.1 million
 - Engineers/Engineer Assistants – 7 FTEs, \$574,676
- DEP (21 FTEs)
 - Bay Program Office – 5 FTEs
 - Agriculture Compliance – 11 FTEs
 - Central Office – 4.5
 - Regional Office – 6.0
 - CAFO Permitting – 1 (SCRO)
 - Technical Assistance/Project Implementation
 - Field Reps – 4
 - TMDL Development – 1 FTE

Urban Stormwater Cost Share Program

- Municipalities, MS4 communities in Blair, Cumberland, Dauphin, Franklin, Lackawanna, Lancaster, Lebanon, Luzerne, Lycoming and York Counties
- \$200,000 maximum per grantee
- Round 1 (Announced July, 2016)
 - Over \$2.2 million awarded to 19 projects
- Round 2 (Announced June 29, 2016)
 - Awarded \$2.2 million for 17 projects:
 - Stream Restoration and Buffers, Retention Basin Retrofits and Bio-retention Basins, Rain Gardens, Permeable Pavement
 - Estimated reduction of 2,800 pounds of nitrogen, 396 pounds of phosphorus and 798,500 pounds of sediment

Agriculture BMP Special Projects

- Support implementation of Pennsylvania's Bay Restoration Strategy
 - BMP projects in areas identified as part of the agricultural inspection strategies
 - In impaired watersheds or priority watersheds identified by the county in their Implementation Plans
 - BMP verification and tracking, including further documentation of voluntary practices
- \$2.9 million to conservation districts for 46 projects (2 years funding)
 - Streambank fencing and crossings, barnyard runoff controls and heavy use area protection, manure storage, rotational grazing, cover crops and no-till planting promotion
 - Estimated reductions: 84,000 pounds of nitrogen; 2,400 pounds of phosphorus; and 3.5 million pounds of sediment
- Completion date to **September 30, 2019**



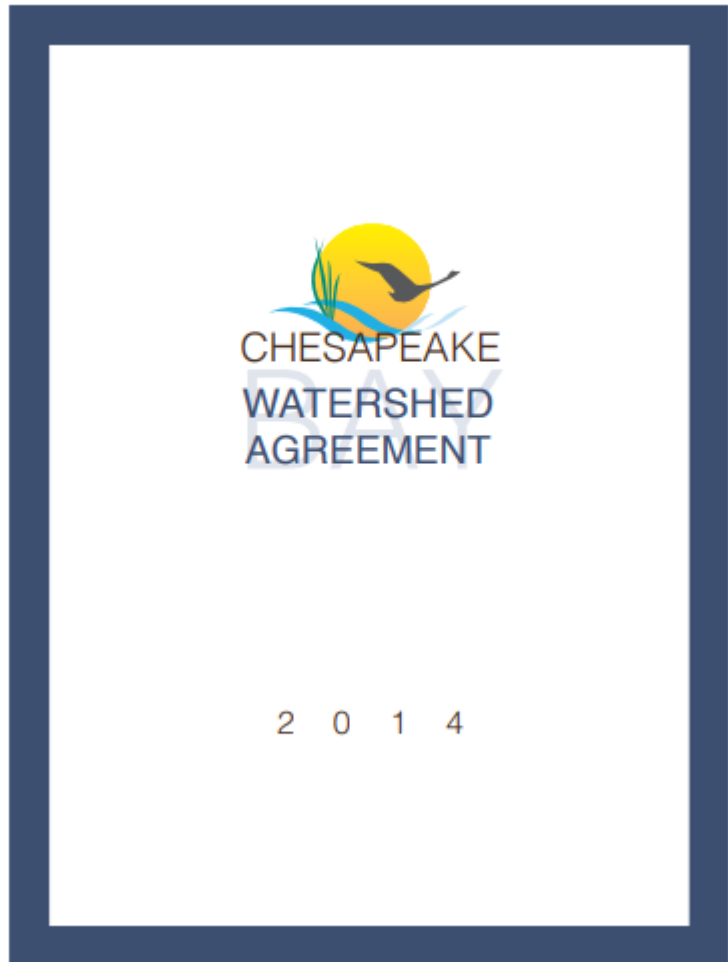
Agriculture Plan Reimbursement Program

- Announced Second Year of Funding
- First Year Results:
 - 750 Plans Reimbursed
 - Approximately 180,000 acres
 - \$770,000 to farmers
- Administered by:
 - Team Ag – Southcentral
 - Larson Design – Northeast and Northcentral Regions

Progress Tracking, Reporting and Verification

- WIP Implementation
 - 2 Year Milestones – Programmatic and Numeric
 - 1 Year Progress Reports – December 1
- Grant Reporting
 - 6 month project progress reports
 - 3 month expenditure report
- Verification Plan
 - Ensure BMPs are in place and operational past their defined life span
 - Under revision for incorporation into Phase 3 WIP
 - Surveys, Remote Sensing, On-site Inspection

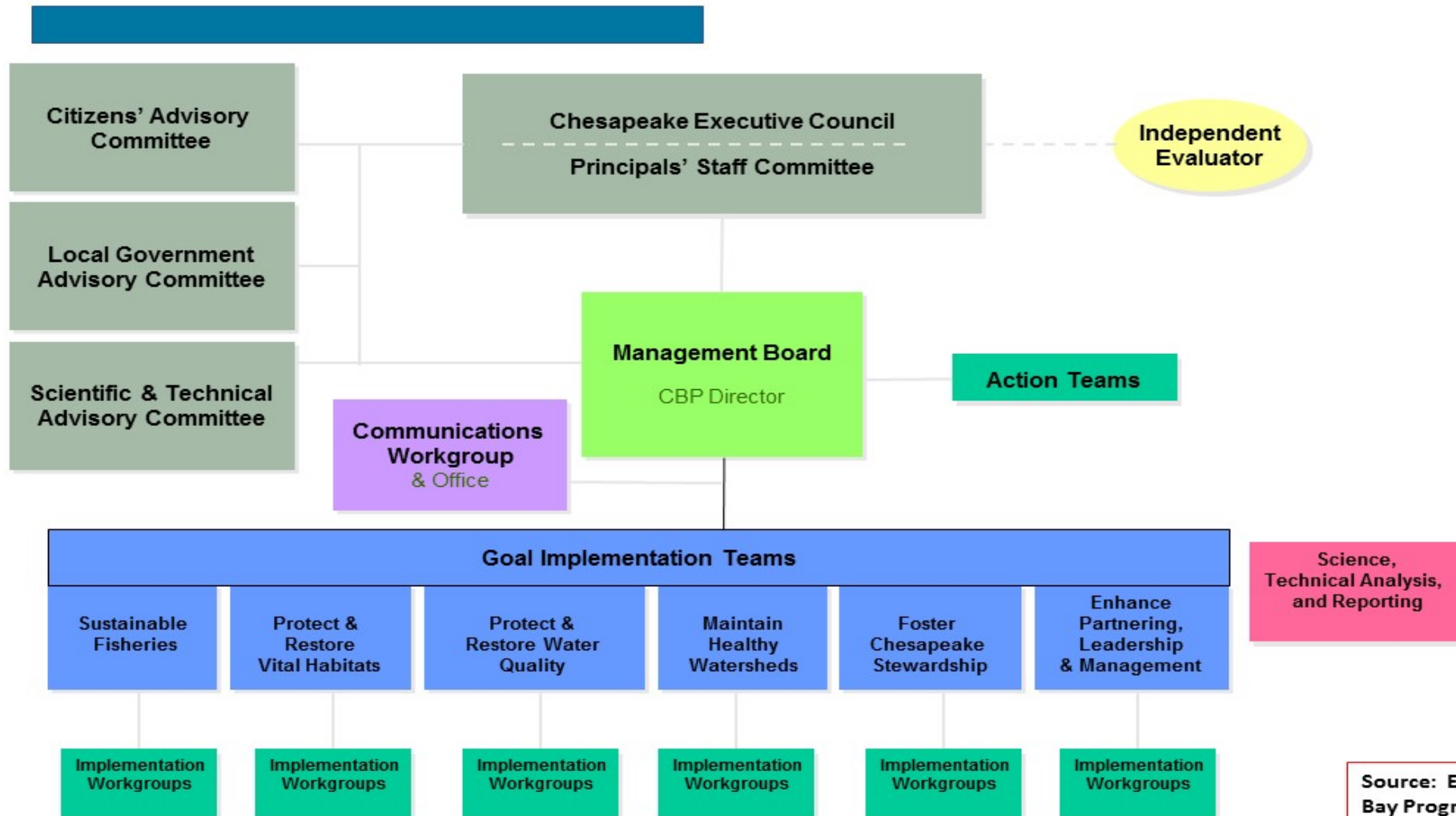
2014 Watershed Agreement



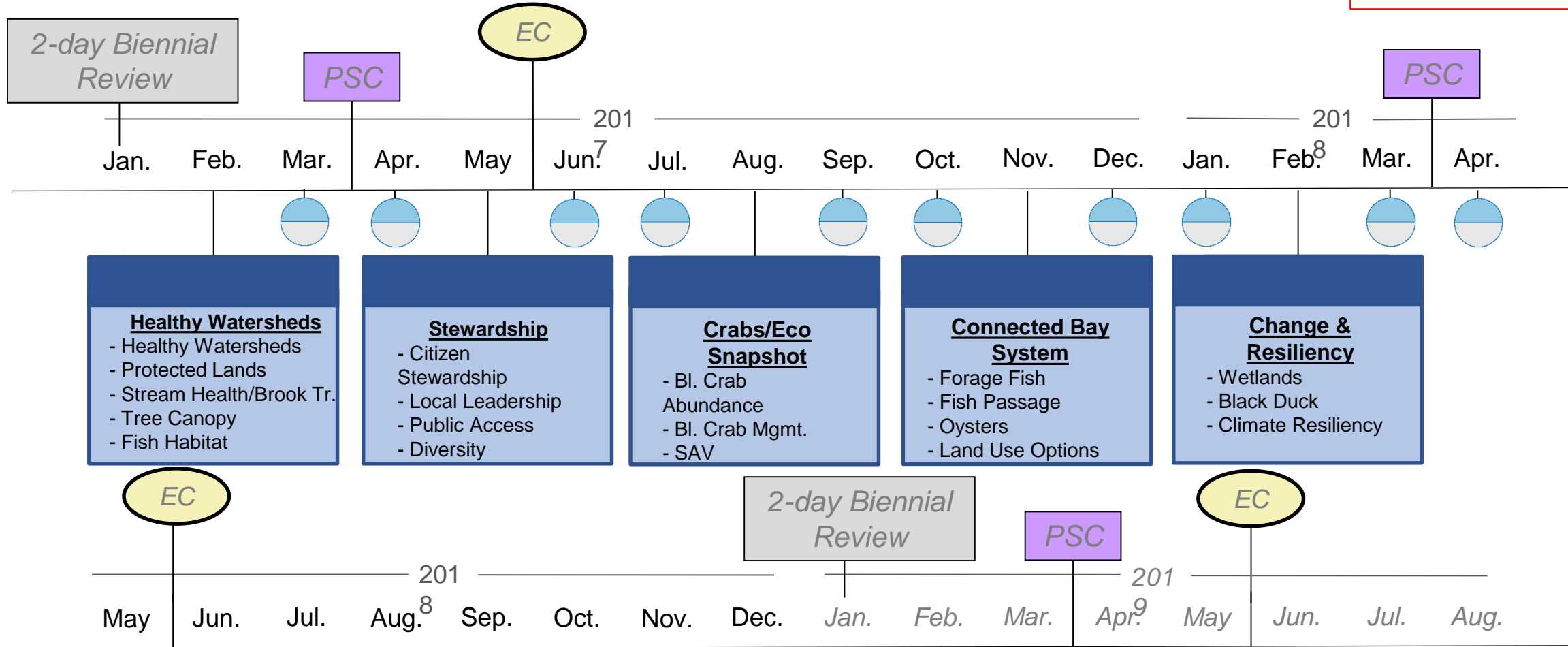
- Pennsylvania [signed](#) the Chesapeake Bay Watershed Agreement in 2014 with five other watershed states, the District of Columbia, the Environmental Protection Agency and the Chesapeake Bay Commission.
- The agreement contains 10 goals and 31 outcomes to advance the restoration and protection of the Bay watershed.

Source:
Communications Office, EPA CBPO

Bay "Partnership" Organization



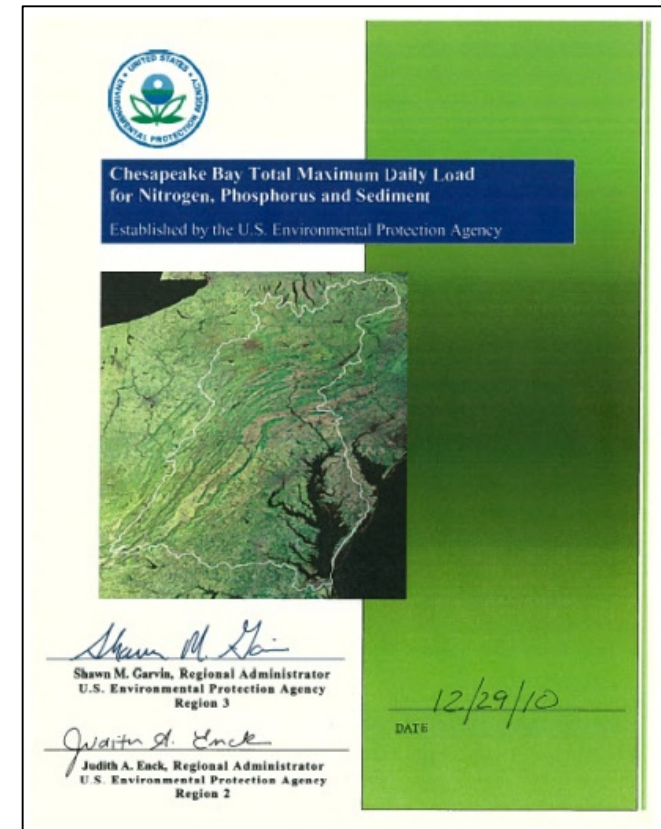
Source: EPA, Chesapeake Bay Program Office



- Categories: Integrated Outcomes (tied to release of indicators)**
1. Healthy Watersheds (GIT: 1, 2, 4, 5)
 2. Water Quality (GIT: 3, 4)
 3. Crabs as Ecosystem Snapshot (GIT: 1, 2)
 4. Connected Bay System (GIT: 1, 2, 4)
 5. Change & Resiliency (GIT: 2, CRWG)
 6. Culture of Stewardship (GIT: 5, 6)
 7. Taking Action on Toxics (GIT: 3, 4)
 8. Next Generation of Stewards (GIT: 5)

The TMDL – An Accountability Framework

- TMDL: Set limits for sources of nitrogen, phosphorus and sediment to meet Bay water quality standards.
- Watershed Implementation Plans (WIPs): States/DC describe what amount, how, where, and when.
- 2-Year Milestones: States and DC, working with local partners, implement actions to reduce loads
- 60% by 2017, 100% of practices in place by 2025
- Federal Actions: EPA actions if targets aren't met or inadequate progress being made



Source:, EPA CBPO

The TMDL – An Accountability Framework

To Meet Legal Requirements:

- Federal Clean Water Act, Federal court orders and regulations
 - 2010 Chesapeake Bay Total Maximum Daily Load (TMDL) requires annual loading reductions of nitrogen, phosphorus and sediment
 - Requires the return of Chesapeake Bay waters to Maryland state water quality standards by 2025
- Pennsylvania's Clean Stream Law
- Article 1, Section 27, Pennsylvania Constitution
 - The people have the right to clean air, pure water, and to the preservation of the natural, scenic, historic and esthetic values of the environment.
 - As trustee of these resources, the Commonwealth shall conserve and maintain them for the benefit of all the people.



The TMDL – An Accountability Framework

EPA is looking for Pennsylvania to:

- Set goals and strategies to meet them for 2018-2025
- Have practices in place by 2025
- Specify how local, regional and federal partners will work together
- Make the necessary programmatic, policy, legislative and regulatory changes
- Commit the staff, partnerships and financial resources
- Track and report on progress



The TMDL – An Accountability Framework

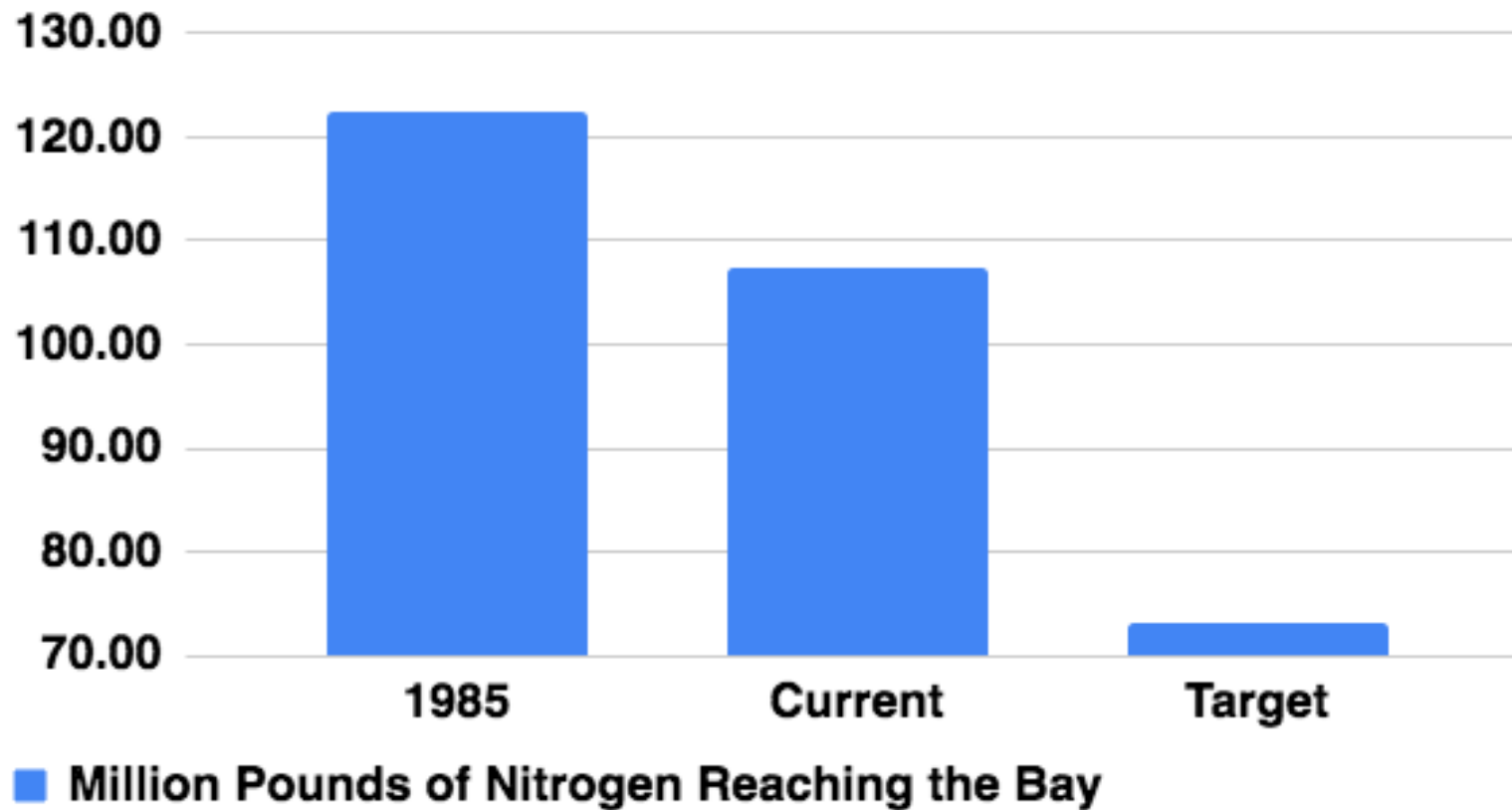
EPA could also:

- Direct, withhold or redirect federal funding
- Impose new requirements for Pennsylvania in the Bay TMDL
- Tighten requirements on wastewater and industrial facilities
- Impose new water quality standards stream-by-stream in Pennsylvania



Planning Targets

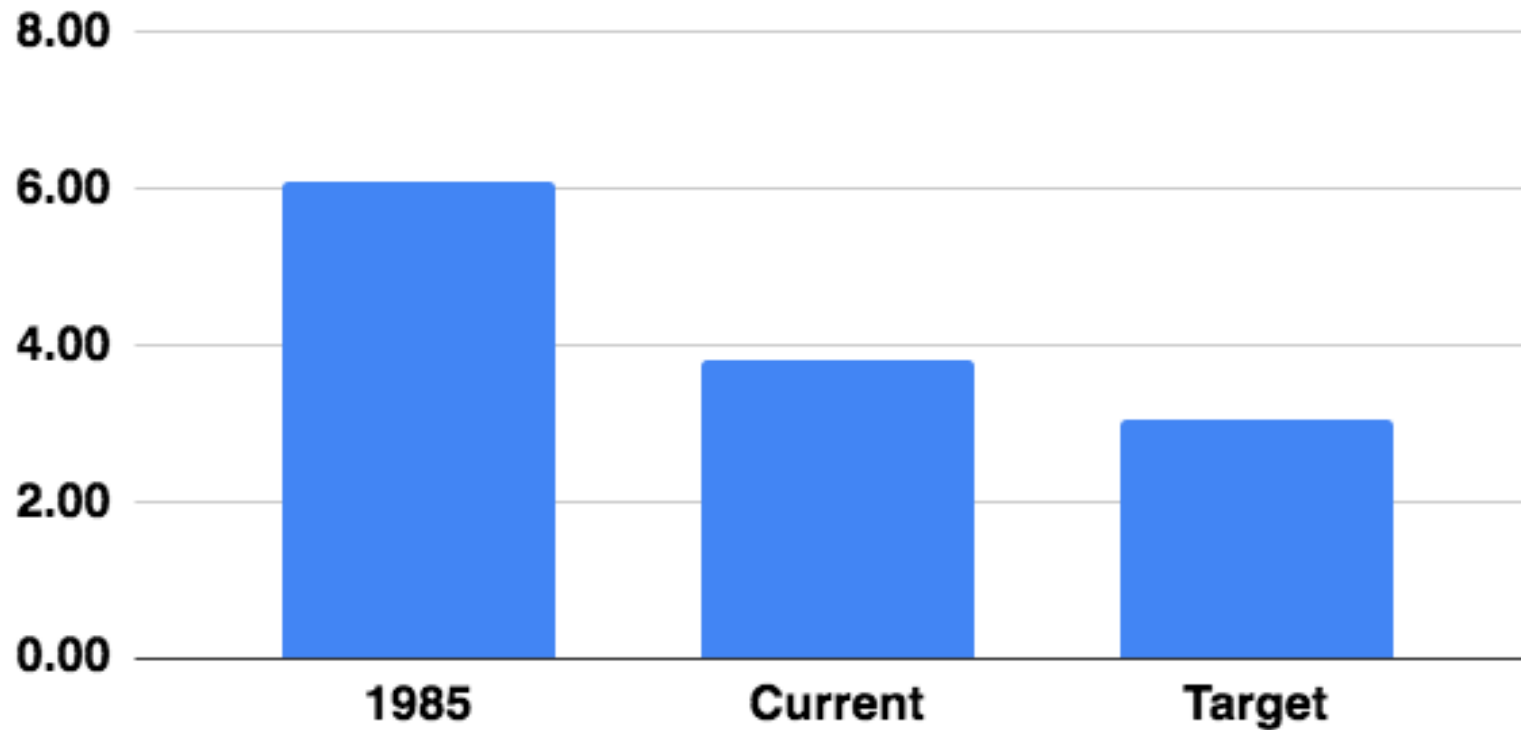
Nitrogen Reaching the Bay



34.13 Million Pounds Remaining

Planning Targets

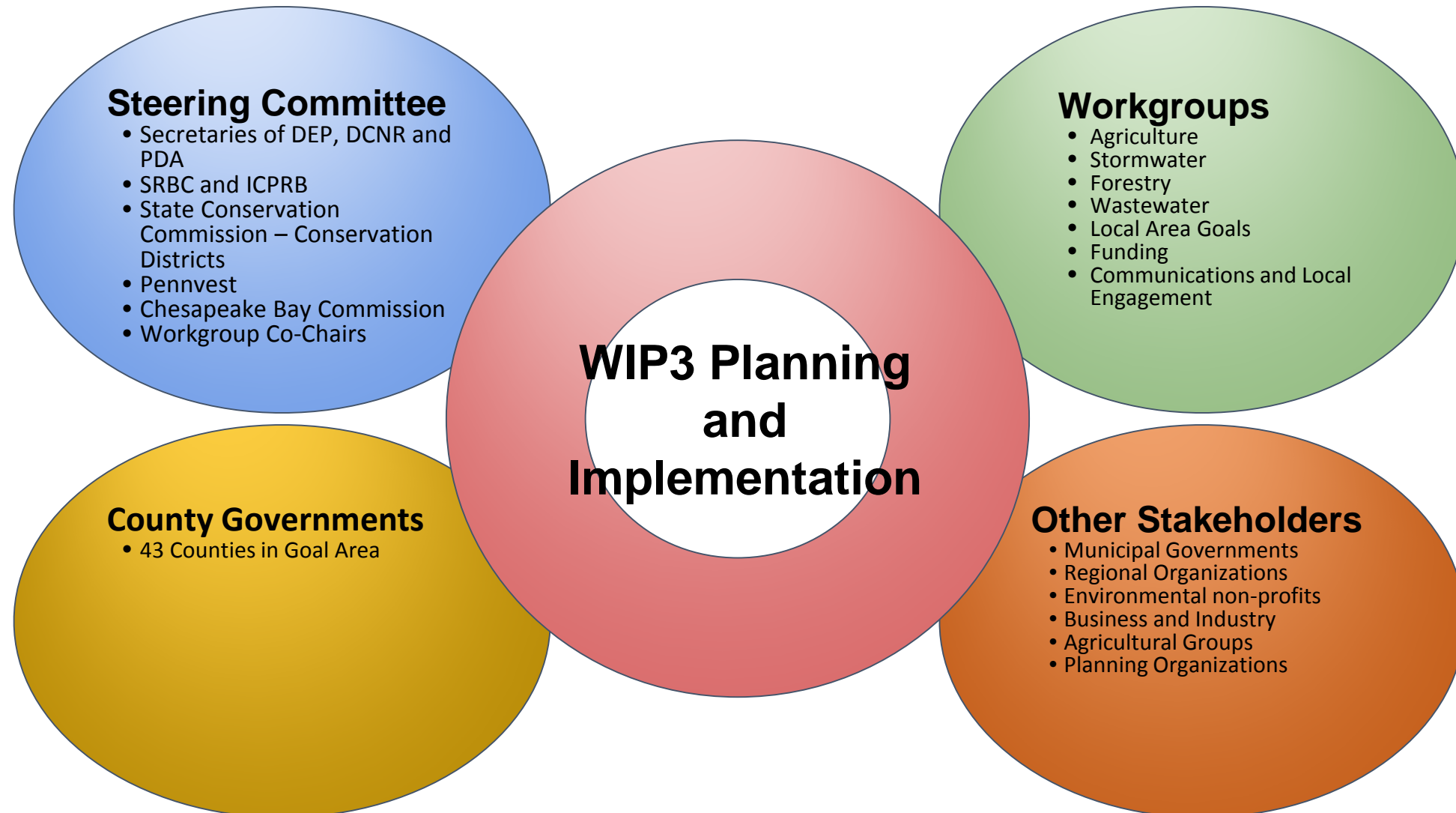
Phosphorous Reaching the Bay



**0.757 Million Pounds
Remaining**

■ Million Pounds of Phosphorous Reaching the Bay

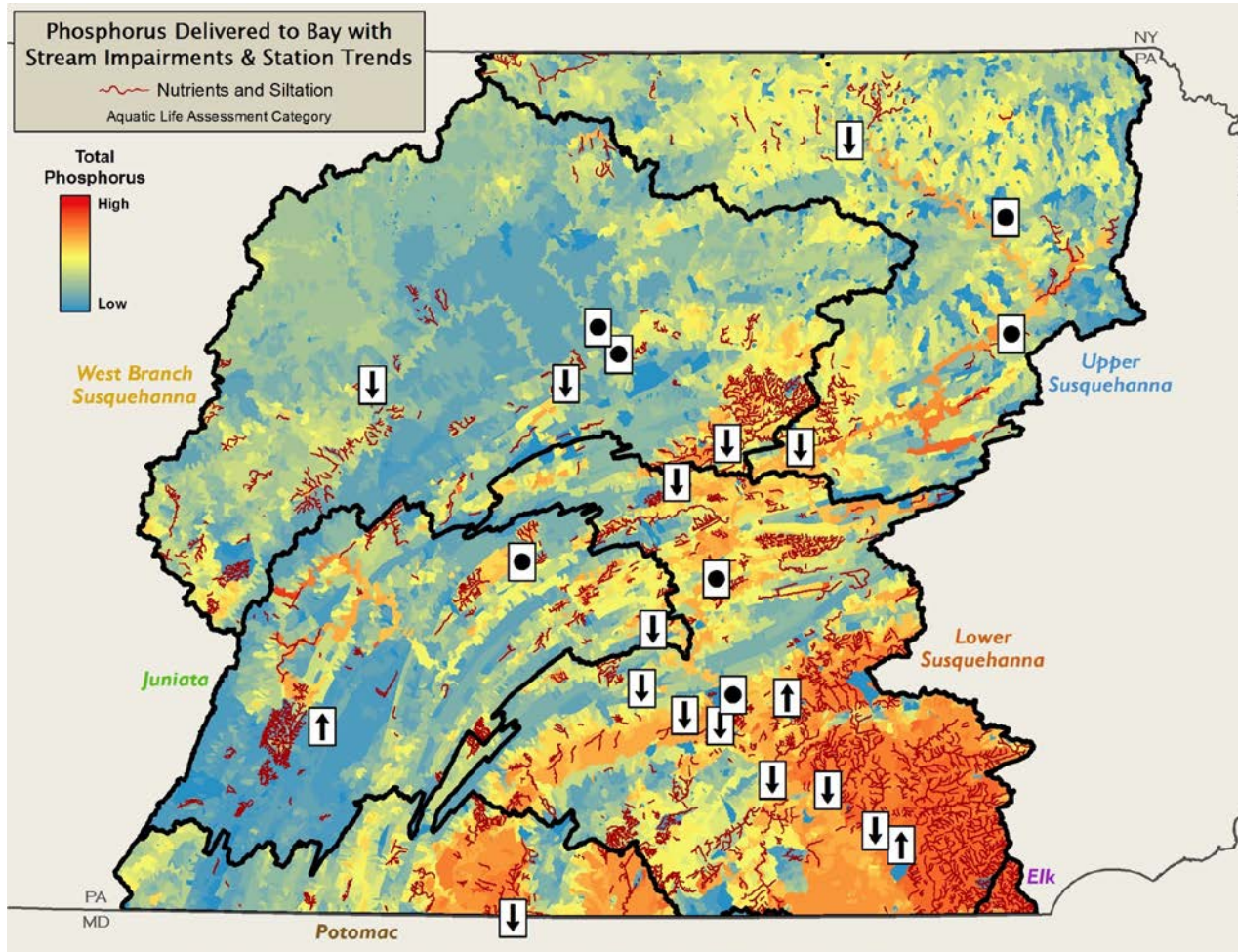
Who is involved – the Phase 3 WIP



▶ How Were County Goals Calculated?

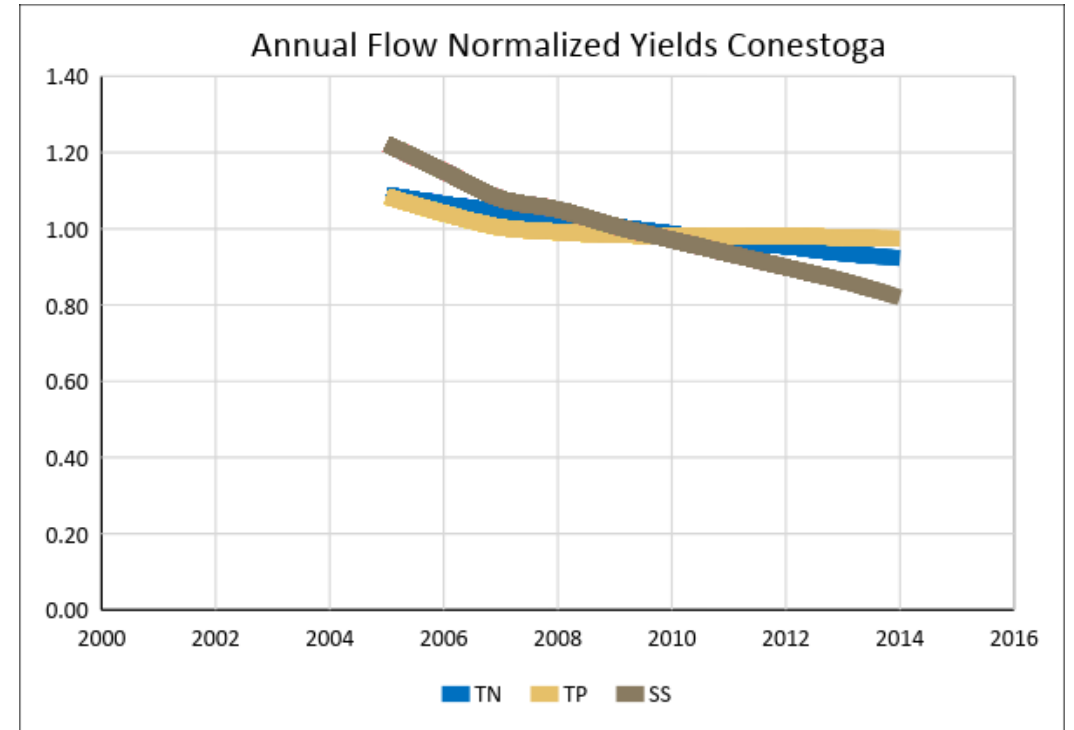


How Were County Goals Calculated?



County Level Modeling Tool

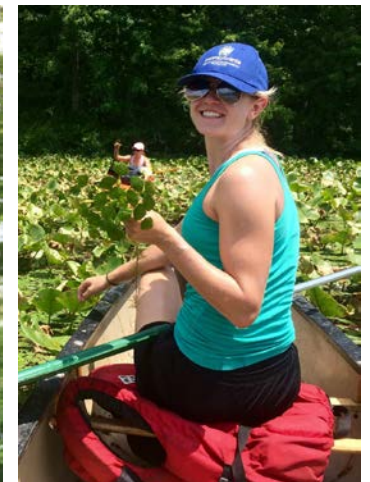
We've created a modeling tool calibrated with 30 years of local monitoring data to help you plan.



DEP calculated county goals using **sound science**

Why “Countywide?”

- Counties are in the best position to make a difference at the local level through coordination with state programs.
- County stakeholders are already doing a lot of work and have plans to do more.
- County based efforts are already collaborative, and they know all the relevant stakeholders.
- Participation can help reach current goals and plan for next steps.
- Participation can help track, and get credit for, current and planned efforts.



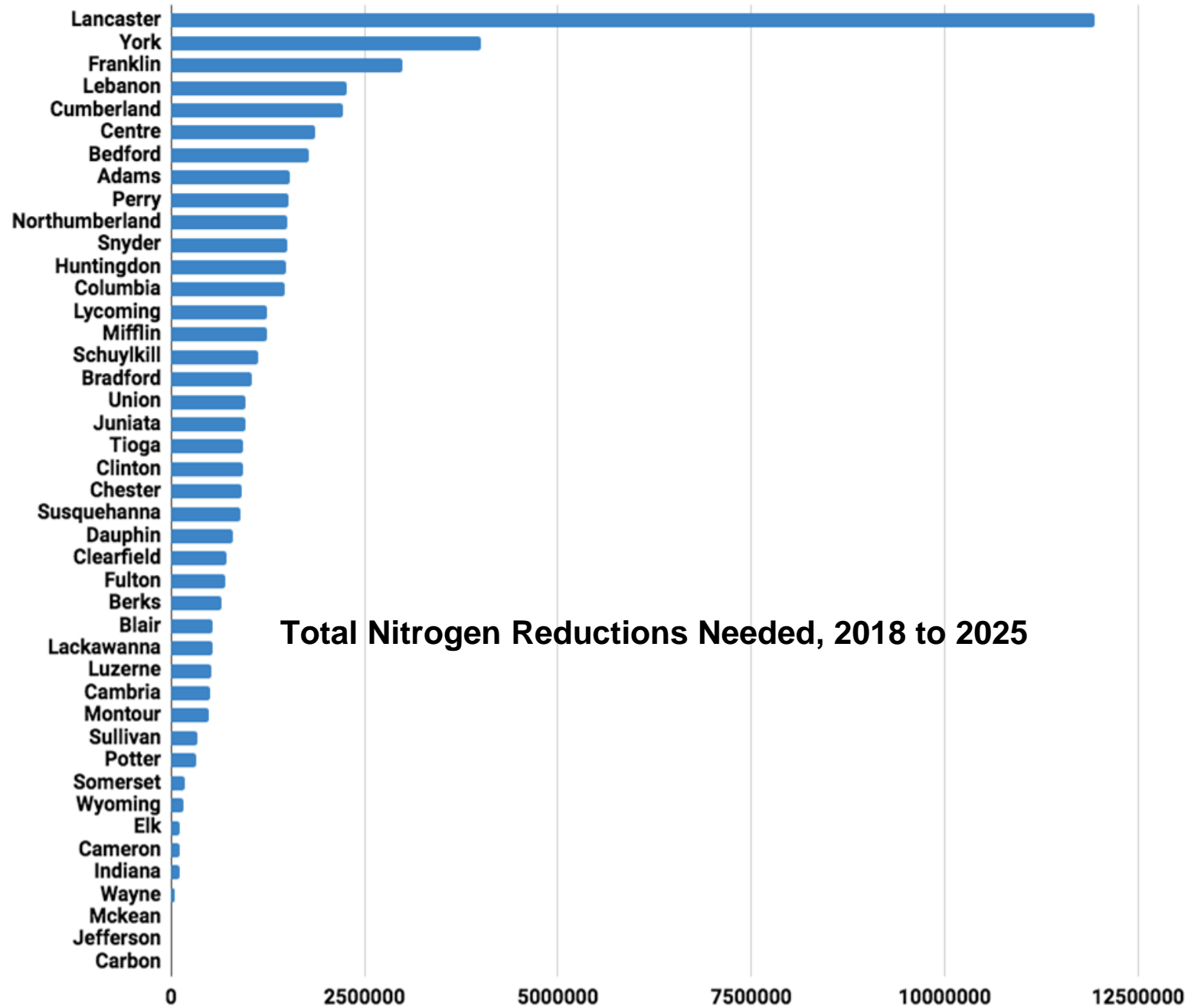
Where are the counties that will do this?

Tier 1 - First 25% of Reductions	Tier 2 - Second 25% of Reductions	Tier 3 - Third 25% of Reductions		Tier 4 - Last 25% of Reductions	
Lancaster York	Franklin Lebanon Cumberland Centre Bedford	Adams Northumberland Perry Snyder Huntingdon Columbia Mifflin Lycoming	Schuylkill Bradford Juniata Clinton Tioga Susquehanna Clearfield Fulton	Union Chester Dauphin Berks Blair Lackawanna Luzerne Montour Cambria Sullivan	Potter Somerset Wyoming Elk Indiana Cameron Wayne Mckean Jefferson Carbon

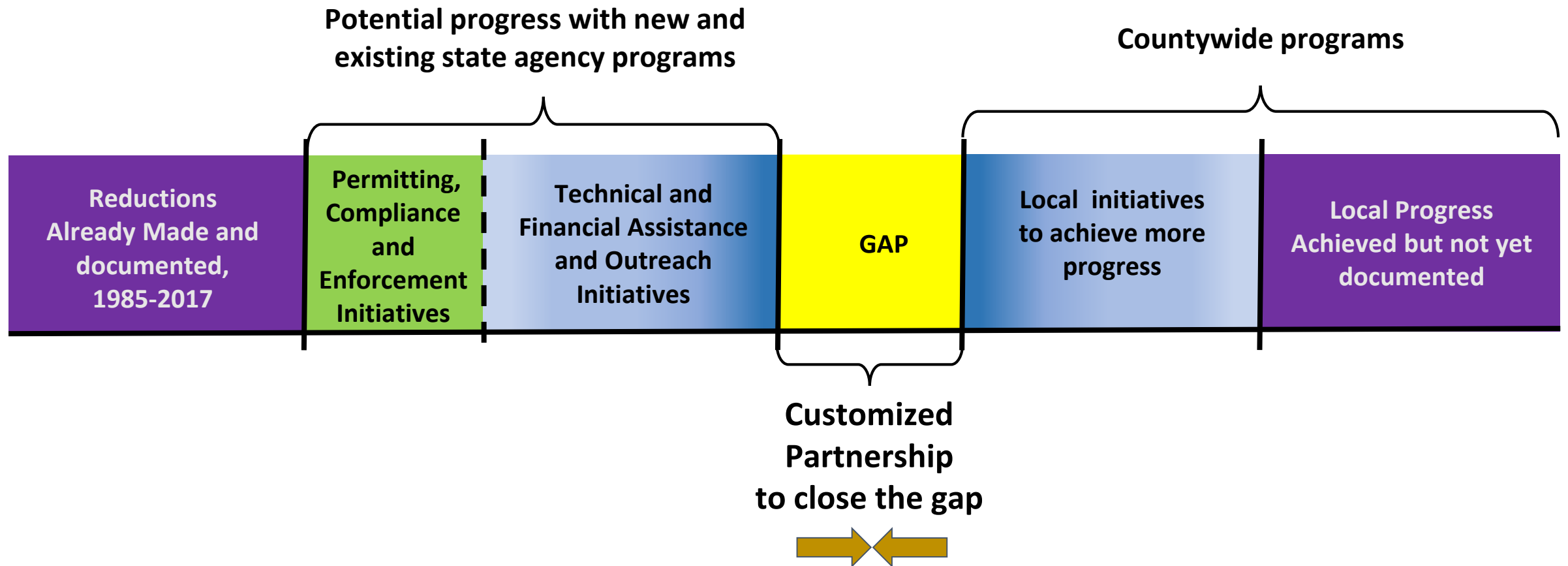
Some counties have more work to do than others!



County goals are their **fair share** of Pennsylvania's targets



How Were County Goals Calculated?



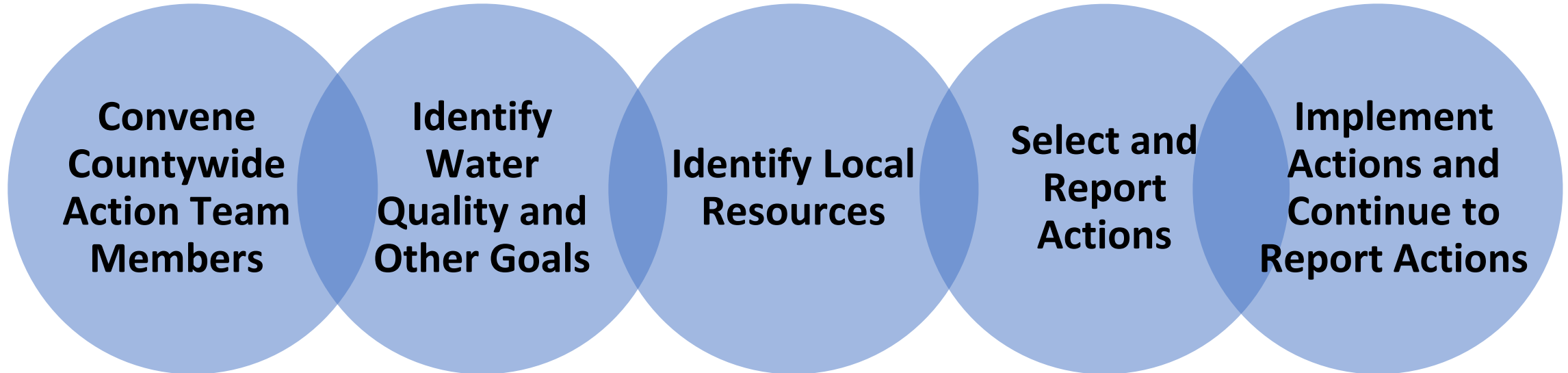
Counties can **choose for themselves** how to reach their goals. We **recognize** the progress you have made already.

Between now and 2019, we will work with 43 Pennsylvania counties to prepare voluntary Countywide Action Plans to improve their waterways and meet our federal regulatory requirements. Here is an overview, followed by some crucial details.



How Does a County Prepare Its Action Plan?

Pennsylvania Countywide Pilot Planning Process Phase III WIP



We anticipate this will take up to 6 months

How Does a County Prepare Its Action Plan?

- Getting started is easy! You tell us what you want to do, and how you want to do it, to reach your goals.
- Here are the proposed steps in our joint planning process.
 - **Step 1:** Convene a countywide planning team
 - **Step 2:** Define goals you wish to accomplish
 - **Step 3:** Identify existing and needed local resources
 - **Step 4:** Work with the state support team to select & implement actions to meet the identified goals
 - **Step 5:** Track & report actions using the templates in your county's toolbox
 - **Step 6:** Implement and continue to report results of your plan

YORK COUNTY COMMUNITY CLEAN WATER TOOLBOX

A County-Based Action Plan for Clean Water

June 2018



18



Clean water:
Great for PA
Good for the Bay

How Does a County Prepare Its Action Plan?

- Support Team
 - DEP Staff Person from Chesapeake Bay Office
 - DEP Regional Office
 - Member of Technical Support Team
 - Members, as needed, of the WIP Steering Committee Workgroups
- County Planning Toolbox
 - County Specific Data
 - List of Resources and Contacts
 - Community Outreach Tools
 - Templates for Use in Completing the Action Plan
- Each County plan will be unique, there is no “one size fits all” solution

When will my county get started? How long will it take?

Ongoing 2018/2019

- Continued public engagement and input
- Fact Sheets, Program Updates, Website
- Forums, Regional Meetings

June-November 2018

- Pilot Process in 4 counties: Lancaster, York, Franklin, Adams

November/December 2018

- Finalize process for remaining counties based on lessons learned

Spring 2019

- Begin implementation of planning process for remaining counties

April 2019

- Public Review and Comment Period on Draft WIP Plan

August 2019

- Submit Final Phase 3 WIP



The Phase 3 WIP Story

Questions?



Clean water:
Great for PA
Good for the Bay



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Chesapeake Bay Program Office

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DEP Chesapeake Bay Program Website:

<http://www.dep.pa.gov/ChesapeakeBay>

Phase 3 WIP Website:

www.dep.pa.gov/chesapeakebay/phase3



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