### PA in Balance:

Innovative strategies for development of the ag conservation workforce through establishment of a statewide training center

Matt Royer
Interim Director, Institute for Sustainable Agricultural,
Food, and Environment Science
Director, Agriculture & Environment Center



## Funding Opportunities



USDA NRCS Programs
USDA NRCS Programs
USDA NRCS Programs
USDA NRCS Programs
ENDEP Growing Program
EPA 319 Program
REAP
NFWF Grants (INSR, SWG)

2019 PA Farm Bill:
Conservation Excellence Grants
REAP increased to \$13 million

**DEP CAP Block Grants** 

PA Clean Streams Fund
Infrastructure Investment & Jobs Act
Partnerships for Climate Smart Commodities
Inflation Reduction Act

**EPA Most Effective Basin Funding** 

**DCNR Riparian Buffer Program** 

## Current Funding Opportunities:

## Historic Investments in Pennsylvania Agriculture and Clean Water

RCPP

**Growing Greener** 

EQIP ACEP

**CBRAP** 

**CSP** 

**REAP** 

NFWF SWG IRA



IIJA

**NFWF INSR** 

CEG

**CWPP** 

**CBIG** 

MEB

SRF

**CAP** 

**ACAP** 

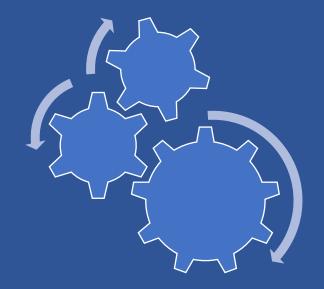
**DCNR Buffer Program** 

319

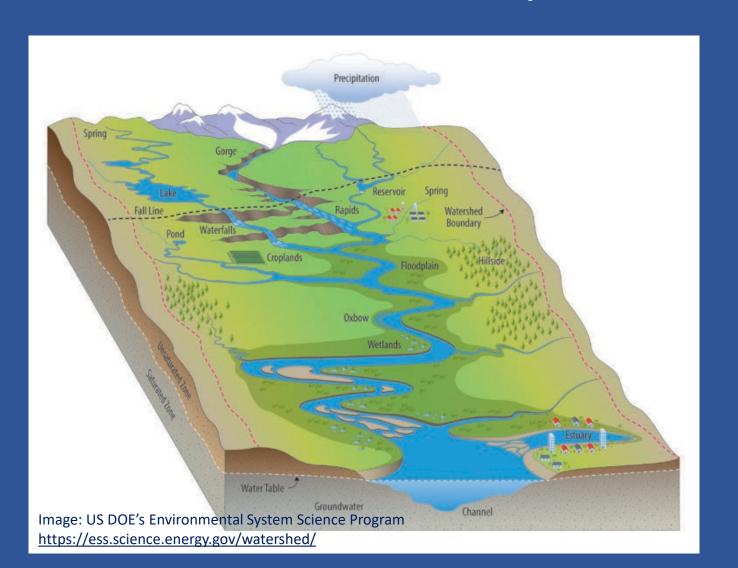
## PA in Balance 2022: What was our charge?

- Consider a systems approach
- What is a system?
  - A set of things working together as parts of a mechanism or an interconnecting network.

–Oxford Dictionary



## PA in Balance 2022: Our Watersheds as Systems



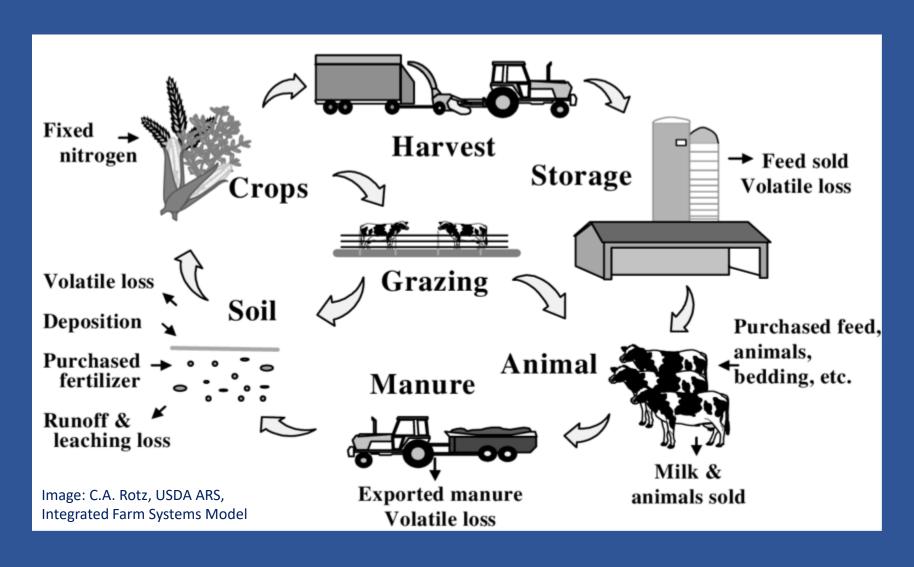
### PA in Balance 2022: The Chesapeake Bay as a System



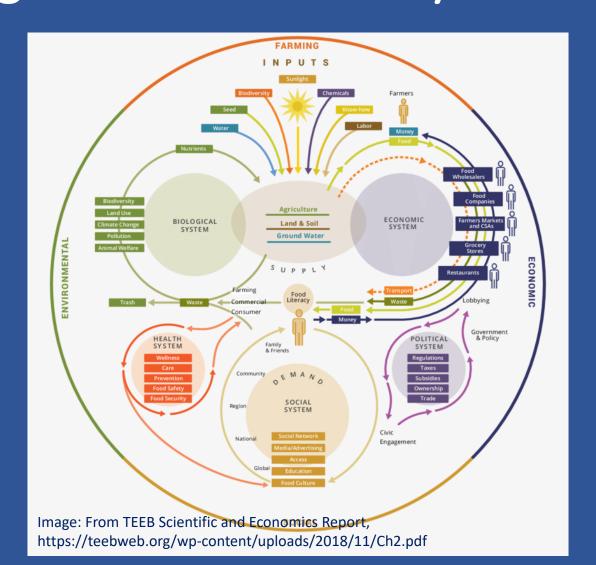
Present Conditions Desired Conditions

Diagram courtesy of the Integration and Application Network (Janumces.edu), University of Maryland Center for Environmental Science. Source: Lane, H., J.L. Woerner, W.C. Dennison, C. Neill, C. Wilson, M. Elliott, M. Shively, J. Graine, and R. Jeavons. 2007. Defending our National Treasure: Department of Defense Chesapeake Bay Restoration Partnership 1998-2004. Integration and Application Network, University of Maryland Center for Environmental Science, Cambridge: MD.

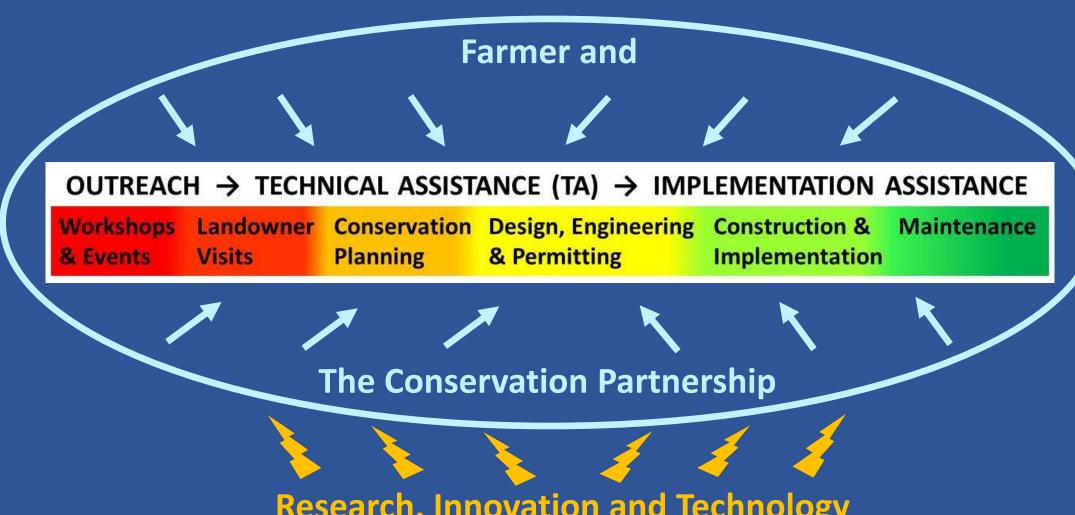
### PA in Balance 2022: The Farm as a System



### PA in Balance 2022: The Agricultural Economy as a System

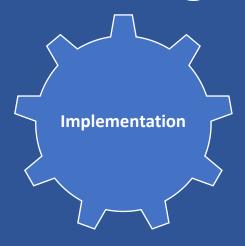


## PA in Balance 2022: Ag Conservation Delivery as a System



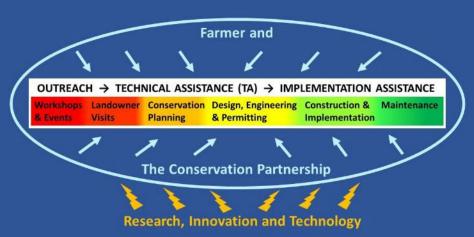
Research, Innovation and Technology

### A Broken System: Ensuring Adequate TA Capacity









### PA in Balance 2022: December 12-14, Lancaster, PA

Over 120 attendees

 Exploring innovations in developing highly functional systems to accelerate efficient, effective, and high impact conservation implementation on Pennsylvania farms





## PA in Balance 2022: Summary Recommendations

#### 1. Streamlining

Streamline the conservation funding delivery system.

#### 2. Workforce Development

Invest in workforce development and training to position Pennsylvania as the innovation hub for agricultural and natural resources conservation.

#### 3. Local Coordination

Support local partnership and implementation coordination to ensure resources are deployed efficiently and tailored to local needs.

#### 4. Engage Corporations

Extend the agricultural and conservation partnership network to businesses and corporations.

#### 5. Climate-Smart Commodities

Position Pennsylvania partnerships for climate-smart commodities as centers for innovation and market development.

# Since PA in Balance 2022: Center for Agricultural Conservation Assistance Training at Penn State Extension

- Conversations began July 2022, upon passage of PA Clean Streams Fund
- A partnership of Penn State College of Ag Sciences, PA State Conservation Commission, and PA Office of USDA NRCS
- Proposed to be funded through the PA Clean Streams Fund and the new Ag Conservation Assistance Program (ACAP)
- Increase capacity to deliver conservation training of existing workforce
- Recruit and train tomorrow's conservation professionals

## Center for Agricultural Conservation Assistance Training: Enhanced Workforce Training Capacity

- Extension Educators working alongside NRCS to increase capacity and frequency of Conservation Boot Camps (starting fall 2023)
- NRCS retirement cadre
- Offer similar boot camps for NGO and private sector
- New skills-specific, topical trainings
- Virtual and in-person presence

## Center for Agricultural Conservation Assistance Training: Enhanced Engineering Capacity

- NRCS Engineer devoted to the Center for NRCS and NRCS/ACAP funded projects
- RFP for professional engineering services for ACAP projects;
   develop program of observed competence

## Center for Agricultural Conservation Assistance Training: On the Job Training/Outreach/Technical Support

- Center staff provide technician assistance, project design,
   farmer outreach where needed in specific counties and regions
- On the job training where conservation district staff turnover is frequent

## Center for Agricultural Conservation Assistance Training: Education and Workforce Recruitment

- Career fairs and ag conservation job/internship recruitment
- Faculty position within Dept. Ag & Biological Engineering
- New courses in ag engineering
- Enhance marketing of Ag Stewardship and Conservation Certificate
- Expand experiential learning opportunities through AEC internship program, working with conservation partners



## Center for Agricultural Conservation Assistance Training: Next Steps

- Proposed scope of work and budget being presented at State
   Conservation Commission meeting May 9
- Partners continue to meet regularly to shape the Center
- Offer summer training series; fall conservation boot camp
- Fill positions!
- Questions? Contact Jennifer Fetter, Interim Director, at jrf21@psu.edu