# **VALUE TO THE NATION**

CHESAPEAKE BAY





**PEOPLE FORECAST** IN 2040

NATION'S **POPULATION ON OF NATION'S** 

**LAND MASS** 

WINTERING ALONG

**ATLANTIC COAST** 

**WINTER HERE** 

**NATIONAL WILDLIFE REFUGES** 



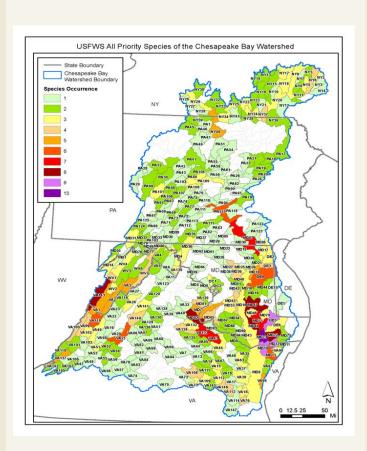
estuary in U.S.; 3rd in world



Baltimore. Norfolk Districts

US Army Corps of Engineers **BUILDING STRONG** 

The U.S. Army Corps of Engineers plays a key leadership role in watershed planning and integrated water resources management. Communities partner with USACE for planning, engineering and construction assistance. This study is the Chesapeake Bay partnership at work!



### 2014 CHESAPEAKE BAY AGREEMENT

- Sustainable Fisheries (oysters)\*
- Vital Habitats (fish passage, buffers)\*
- Water Quality & Toxic Contaminants\*\*
- Healthy Watersheds (remote island habitat)\*
- Local Governments\*\*
- Streams and Wetlands\*
- Public Access/Work at Reservoir\*\*
- Environmental Literacy\*\*
- Climate Resiliency (monitoring, assessment, adaptation)\*

- \* Aligns with **USACE** mission areas for planning, design, construction
- \*\* Additional opportunity to use **USACE** technical assistance programs

### CHESAPEAKE BAY COMPREHENSIVE WATER RESOURCES AND RESTORATION PLAN

PROVIDING A COMPREHENSIVE AND INTEGRATED RESTORATION PLAN TO ASSIST WITH IMPLEMENTATION OF THE CHESAPEAKE BAY AGREEMENT BY:



- Effectively and efficiently engaging Bay stakeholders to identify problems, needs and opportunities in the watershed and to avoid duplication of ongoing or planned actions by others
- Leveraging existing geospacial data to identify locations for restoration opportunities to maximize co-benefits (the set of multiple benfits or synergies returned from an explicit action to address multiple 2014 Bay Agreement outcomes) and make the most efficient use of implementation resourcing
- Determining where and how USACE programs could be used to support implementation



### **OBJECTIVES**

- ♦ Develop a comprehensive, strategic and integrated water resources plan to guide the implementation of projects to assist in meeting the 2014 Bay Agreement objectives
- ♦ Identify at least one project in each of the six states and D.C. that can be considered for implementation or technical assistance by USACE and that support the 2014 Bay Agreement objectives

- Identify areas for ecosystem restoration, protection or preservation that will assist in meeting the 2014 Bay Agreement objectives
- Identify new policies or programs or improve upon existing policies and programs that will help achieve an environmentally and economically sustainable and resilient Chesapeake Bay Watershed

### **BACKGROUND AND AUTHORITY**

1996 Water Resources

**Development Act - Section 510** Chesapeake Bay Environmental Restoration and Protection Program



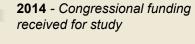
2002 - Comprehensive Plan (U.S. Senate Committee on Environment and Public Works Resolution)



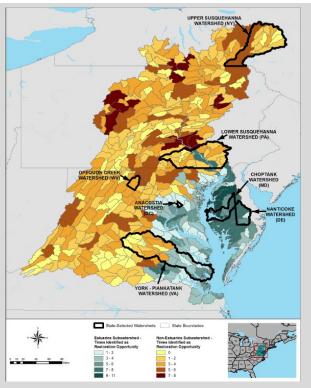
2014 WRRDA - Section 4010 (amended Section 510); directs Comprehensive Plan completion in 2 years

2018 - Submit draft report for public input (May/June); final report to USACE HQ (summer) Fish and Wildlife Foundation (July)









### \*RESTORATION ROADMAP\*

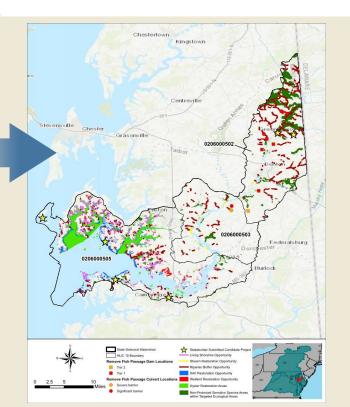
#### STATE SELECTED WATERSHED ACTION PLANS

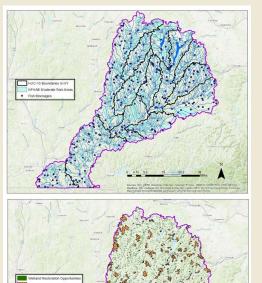
- ♦ One completed for each state + D.C., and recommended for every subwatershed
- ♦ Reduce duplication
- ♦ Identify gaps in restoration
- Reveal collaboration opportunities
- ♦ Maximize leveraging of resources
- ♦ Create partnerships

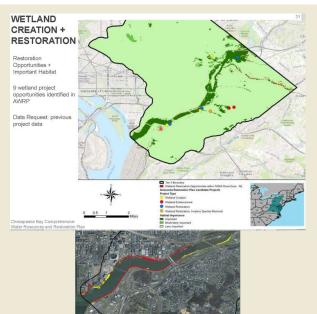
### **FINDINGS**

- ♦ Prioritize actions geographically to maximize benefits and contribution to Bay goals
- ♦ Promote conservation/enhancement adjacent to existing healthy, high-value habitat and restoration in highly degraded areas
- ♦ Track restoration actions, water quality, habitat metrics
- ♦ Develop relationships to support implementation partnerships
- ♦ Promote Integrated Water Resource Management and plan for future threats
- ♦ Minimize adverse impacts from future stressors (sea level change, population growth)













### **CHOPTANK RIVER, MD**

#### **ACTIONS**

- Agriculture Best Management Practices
- Living shorelines
- Fish passage
- Wetland restoration
- Riparian buffers

## **UPPER SUSQUEHANNA, NY**

#### **ACTIONS**

- Agriculture Best Management Practices
- Stream restoration
- Fish passage (culverts)
- Wetland restoration
- Riparian buffers

## **ACTIONS**

- Living shorelines
- Wetland restoration

**ANACOSTIA RIVER, DC** 

## **RECOMMENDATIONS FOR USACE**

#### PROGRAM **PROGRAM IMPLEMENTATION IMPLEMENTATION** General Investigation Restoration · Requires Congressional authorization Section 510 Program Sediment and erosion control for construction Studies Design/Implementation Protection of eroding shorelines <\$3M, 3 years</p> Project-specific, cost-shared (i.e., <\$10M total cost · Ecosystem restoration, including SAV 50% federal/50% non-federal oysters, Elizabeth River, Anacostia · Protection of essential public works 75% federal/25% non-federal River) Watershed Assessments (Section Beneficial use of dredged material Other projects that may enhance the living resources of the estuary DOD and other federal agencies Subwatershed planning and Continuing Authorities Program Primarily: · Planning, design, implementation implementation Reimbursable services · Limited planning Section 14 (Emergency Stabilization) <\$15M Design/Implementation</li> Section 204 (Beneficial Use of Dredged Material) Cost-sharing varies Section 206 (Ecosystem Restoration) Planning Assistance to States Technical Assistance Action Plans, technical analyses and Floodplain Management Services Does not lead to construction concept plans for implementation by

### STAKEHOLDER COLLABORATION

- ♦ Study Initiation Notice in October 2016
- ♦ Coordination letters U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, National Marine Fisheries Service, and Natural Resources Conservation Service
- 280+ stakeholders representing 126 stakeholder groups
- Stakeholder workshop Nov. 7, 2016
- ♦ Stakeholder webinars: Feb. 27, 2017; April 20, 2017; May 7, 2018
- Strategic Engagements: Cross Goal Implementation Team (GIT), Systems Approach to Geomorphic Engineering (SAGE), U.S. Fish and Wildlife Service (USFWS), and Department of Defense (DOD) Chesapeake Bay Action Team
- Stakeholders provided input including restoration and conservation priorities and specific priority projects.



others or other USACE programs

Cost-sharing varies