# PLANNING FOR THE FUTURE

## Presentation to the Interstate Council on Water Policy

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# INVESTING IN THE NATION'S WATER INFRASTRUCTURE







## COMPLETED CHIEF'S REPORTS SINCE WRDA 2018 ENNACTMENT







# CIVIL WORKS 2020 STUDY COMPLETIONS

7 additional Chief's Reports scheduled for completion in 2020







# PLANNING ASSISTANCE TO STATES

Purpose - "All things water"

### **Types of Projects**

 Stream and wetland assessments, sewer infrastructure inventories and databases, watershed planning, flood risk assessments, GIS mapping, water supply demands, etc.

#### **Funding/Cost-Sharing**

- 50% federal/50% non-federal
  - Non-federal voluntary contributions in excess of cost-share requirement
  - Opportunity for public-private partnerships
  - May include in-kind services

### How to Get Started? What's Required?

- Contact the Program Manager at the respective District
- Federal and non-federal partners sign a Letter of Agreement http://www.usace.army.mil/Missions/Civil-Works/Project-Partnership-Agreements/templates\_pas/

#### **More Information**

<u>https://planning.erdc.dren.mil/toolbox/library/FactSheets/PAS\_FS\_Aug2019.pdf</u>

5





### SAW MILL RUN MODEL REFINEMENT







Partner: Pittsburgh Water and Sewer Authority

**Project Description:** USACE will refine an existing HEC-RAS model by incorporating survey data (cross-sections and bridge measurements) for Saw Mill Run.

#### **Objectives:**

- Assist in the analysis of water quality
- Assist in development of an Integrated Watershed Management Plan

Total project cost: \$23

\$230K

### MUNCY FLOOD RISK MANAGEMENT STUDY



**Partners:** Lycoming County, PA; Muncy Bank and Trust; Susquehanna River Basin Commission

**Project Description:** Muncy Borough requested assistance to support their initiative to become a Resilient City and address flooding issues.

#### **Objectives:**

- Data collection
- Hydrologic and hydraulic modeling
- Stormwater modeling
- Develop alternatives to address riverine and stormwater flooding

\$337K

\$25K

Economic analysis

#### Total project cost: Private Contribution:

# FLOOD PLAIN MANAGEMENT SERVICES

Purpose - "All things flood"

### **Types of Projects**

 Flood inundation tools and mapping, risk communication, flood risk assessments, mitigation planning, post-flood documentation, emergency table top exercises, flood preparedness and more

### **Funding/Cost-Sharing**

 100% Federal funds, with non-federal voluntary contributions allowed to expand the scope of the study

### How to Get Started? What's Required?

- Contact the Program Manager
- Federal and non-federal partners sign a Letter of Agreement if nonfederal contribution

### **More Information**

<u>https://planning.erdc.dren.mil/toolbox/library/FactSheets/fpmsfactsheet\_June2017.pdf</u>

8





### TYRONE BOROUGH, PA FLOOD RISK ASSESSMENT





Partner: Borough of Tyrone, Pennsylvania

**Project Description:** The Borough of Tyrone has a lengthy history of severe flooding from the Little Juniata River and Bald Eagle Creek as well as stormwater related flooding that has caused property and roadway damages.

#### **Objectives:**

- Complete hydraulic and hydrologic, and stormwater modeling
- Develop conceptual alternatives to address riverine and stormwater flooding In addition, Conduct building surveys
- Develop a database for the building information

Total project costs:	\$200K
Federal funding:	\$150K
Non-Federal funding:	\$ 50K

## SILVER JACKETS

**Purpose** – State-led, interagency federal, state and local stakeholders focused on sharing knowledge and collaborating on projects to reduce flood risk and enhance response and recovery

### **Types of Projects (Nonstructural)**

 Flood inundation tools and mapping, risk communication, flood risk assessments, mitigation planning, post-flood documentation, emergency table top exercises and more

### **Funding/Cost-Sharing**

- USACE accepts proposals annually; competitive; uses FPMS funding
- Must be multi-agency effort
- Agencies secure their own funds to participate in the project or to complete tasks
- No signed agreements between participating parties

### **More Information**

<u>http://silverjackets.nfrmp.us/</u>





### FLOOD INUNDATION MAPPING AT 3 WESTERN PA LOCAL FLOOD PROTECTION PROJECTS



**Project Description:** Hydraulic model analysis and flood inundation mapping are being conducted at 3 Local Flood Protection Projects -(Punxsutawney, Big Run, and Sykesville) in Western PA. The developed inundation maps will provide critical, timely information regarding the modeled extent and depth of flooding. This will allow local officials, emergency managers and the general public to make informed decisions regarding how they can reduce flood risks.

Agency Participation: PADEP - Bureau of Waterways Engineering & Wetlands; PA Emergency Management Agency; FEMA; Borough of Punxsutawney, PA; Borough of Big Run, PA; Borough of Sykesville, PA; USGS; and the National Oceanic and Atmospheric Administration.

Total project cost: \$148K (over a 2-year period)



# **QUESTIONS?**



