

#### Overview

- Introduction to Weather It Together
- Weather It Together Data Collection
- Weather It Together Data Management & Integration
- Weather It Together Data Dissemination





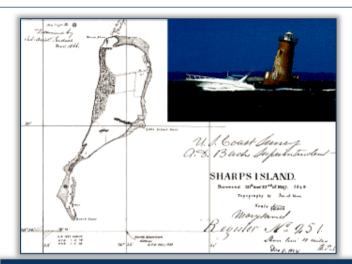
Weather It Together







### Chesapeake Bay at Risk



Within the next 100 years, sea level rise is estimated to reach 44 inches. To date, 13 islands have been lost in the Chesapeake.



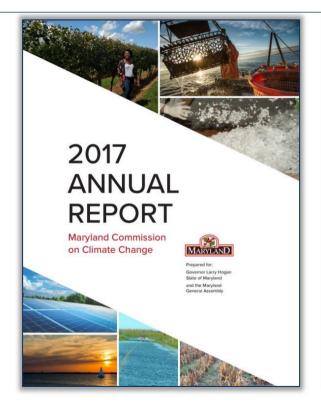








## Maryland: A State at Risk









#### National Landmarks at Risk

Annapolis has experienced the greatest increase in nuisance flooding in the past 50 years (925%) with a current average of 39.3 days per year. In the next 50 years, nuisance flooding will be a daily occurrence.







#### Weather It Together







"What is most compelling about the Annapolis model is that [public engagement] is always included as they move through the different stages of plan development -- that's really the takeaway: the City has managed to create and implement a meaningful, successful public engagement process."

Jen Sparenberger Resilience Manager MD Dept. of Planning





#### FEMA Hazard Mitigation Planning



Integrating Historic Property and Cultural Resource Considerations Into Hazard Mitigation Planning

State and Local Mitigation Planning How-To Guide

FEM A 386-6 / May 2005



Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and manmade hazards.

- 1. Organizing efforts to develop a mitigation plan;
- 2. Identifying hazards and assessing losses;
- Setting mitigation priorities & goals; writing the plan;
- 4. Implementing the mitigation plan.





#### Consider Adaptation Strategies - USACE







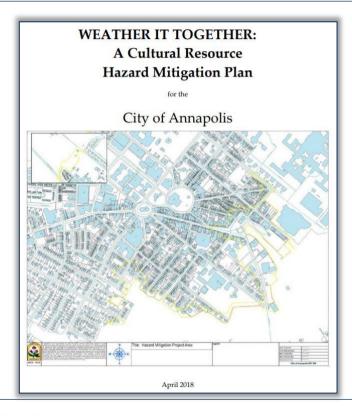
#### **Set Priorities**







#### Write & Implement the Plan



- Implement a public awareness& engagement program
- Lead building resilience
- Develop a disaster response and recovery plan to build back better
- Align land use, economic development & environmental regulations
- Fund public improvements and incentivize private investment





#### Weather It Together – Data Driven



- 1. Data Collection
- 2. Data Management & Integration
- 3. Data Dissemination





## Data Collection





#### **Annapolis Historic District**







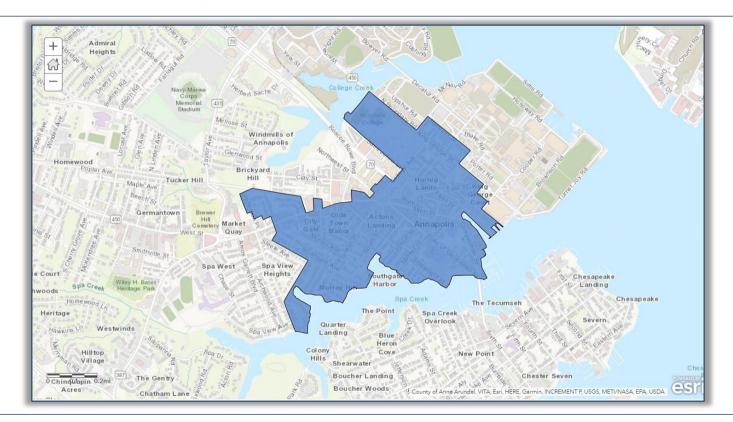
#### **National Historic Landmark District**







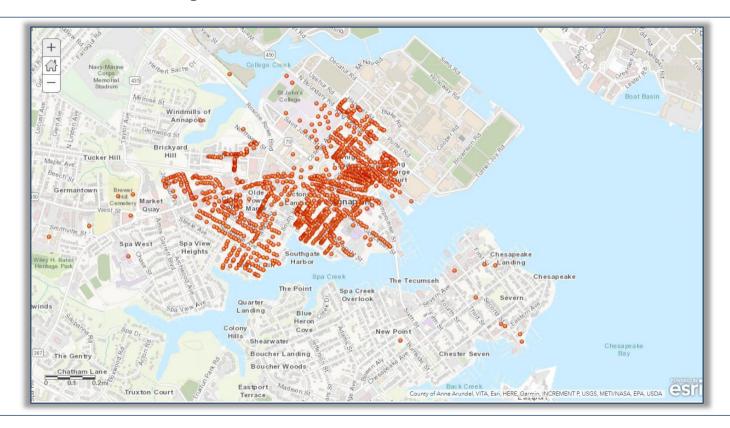
### **National Register District**







#### **Historic Properties**







## 1% and 0.2% Annual Chance Floodplain







## 10 ft Inundation







#### **Community Input – Planning Charrettes**







#### University of Florida – Envision Heritage









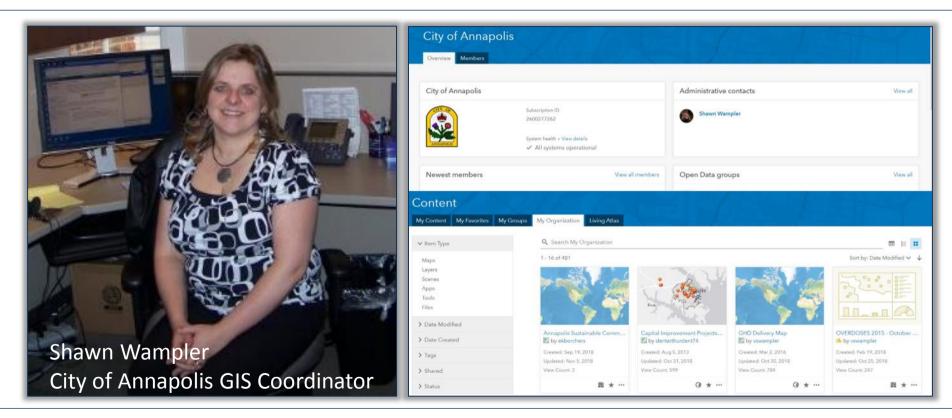


# Data Management & Integration





## Annapolis GIS Maven







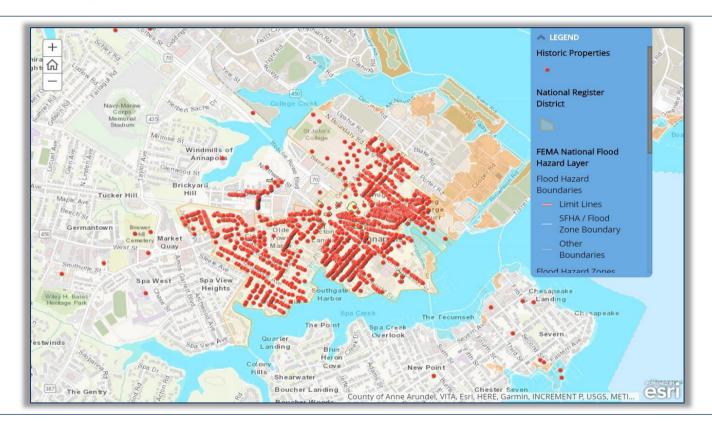
#### **Historic Districts**







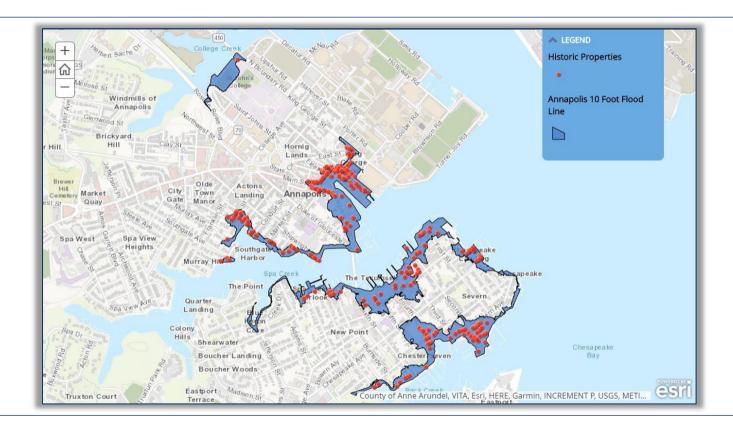
## Heritage and FEMA







#### Cultural Resources at Risk - USACE







# Data Dissemination

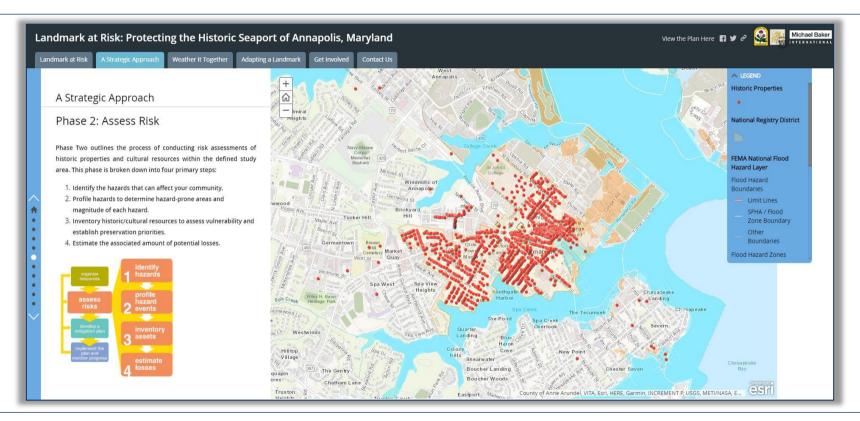






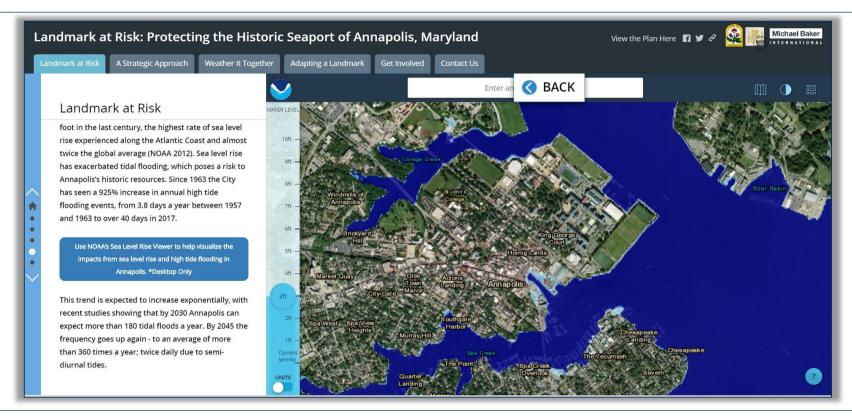












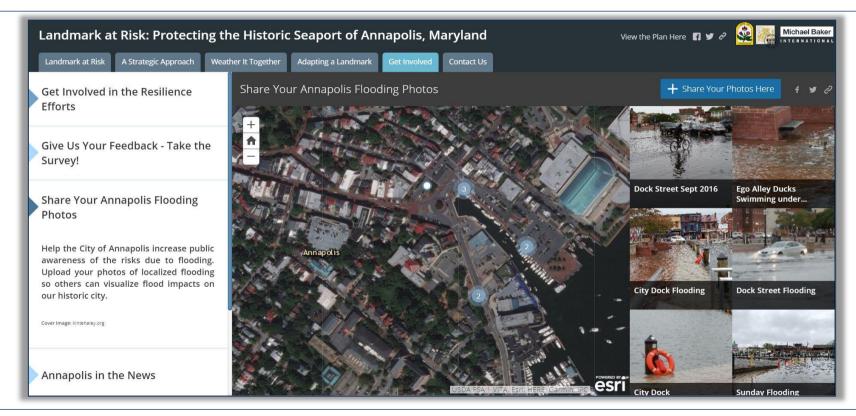








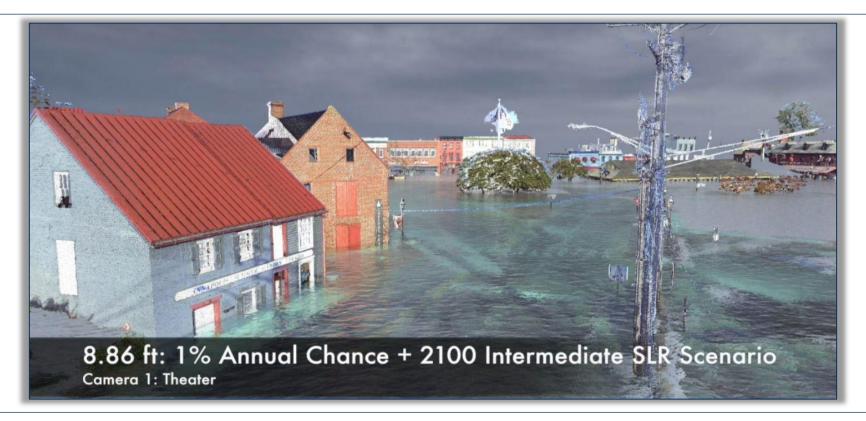








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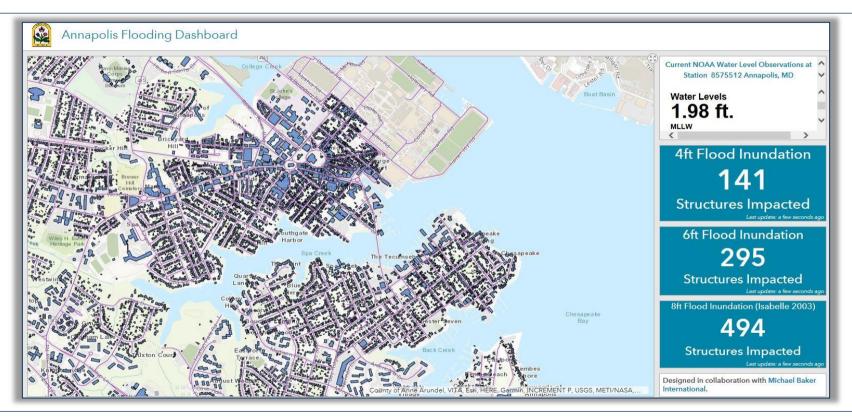
#### University of Florida – Envision Heritage







#### Flood Inundation Dashboard







## Thank You



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