

State of Mitigation in Maryland

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State Hazard Mitigation Officer

MARYLAND EMERGENCY MANAGEMENT AGENCY



MEMA's Mission

- **Coordinate** people, organizations, resources, and information
- Ensure the **safety and resiliency** of people, businesses, communities, infrastructure, and the environment
- Administer FEMA grants and **serve as a conduit** to federal assistance before, during, and after disasters



MEMA's Hazard Mitigation Program

- Administer FEMA's Hazard Mitigation Assistance (HMA) programs
- Develop State Hazard Mitigation Plan
- Support local mitigation strategies
- Collaborate with State agencies to set and implement statewide risk reduction measures

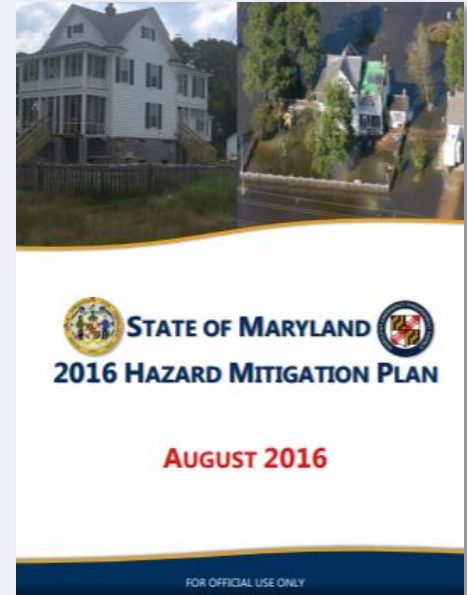


2016 STATE HAZARD MITIGATION PLAN



2016 State Hazard Mitigation Plan

- Adopted August 26, 2016
- Updated every 5 years
- Identifies long-term mitigation strategies
- Road map for implementation
- Opportunity for plan integration



Plan Goals

- Protect life, property, and the environment
 - Public awareness
 - Enhanced coordination with local jurisdictions and State
 - Protection of State assets, infrastructure, and critical facilities
 - Promote natural resource protection and resiliency
 - Efficient use of State resources

Hazard Identification

- Reviewed past Presidential Disaster Declarations
 - **Coastal Hazards**
 - **Flood**
 - **Winter Storm**
 - **Tornado**
 - **Wind**
 - Thunderstorm
 - Wildfire
 - Drought



2016 Mitigation Strategies

- 36 Mitigation Action Implementation Worksheets
- Prioritization
- 6 categories
 - Prevention
 - Property Protection
 - Public Education and Awareness
 - Natural Resources Protection
 - Emergency Services
 - Structural Projects



Repetitive Loss Strategy

- FEMA Flood Risk MAP products for all coastal jurisdictions
- Reduce properties within RL and SRL areas
- Update inventory and database
- Prioritization
- Funding



Plan Management

- State capabilities
 - Floodplain management
 - Stormwater management
 - Historical Preservation
 - Natural Resource Protection
 - Data
 - Funding
- Training and Technical Assistance
- Plan Integration



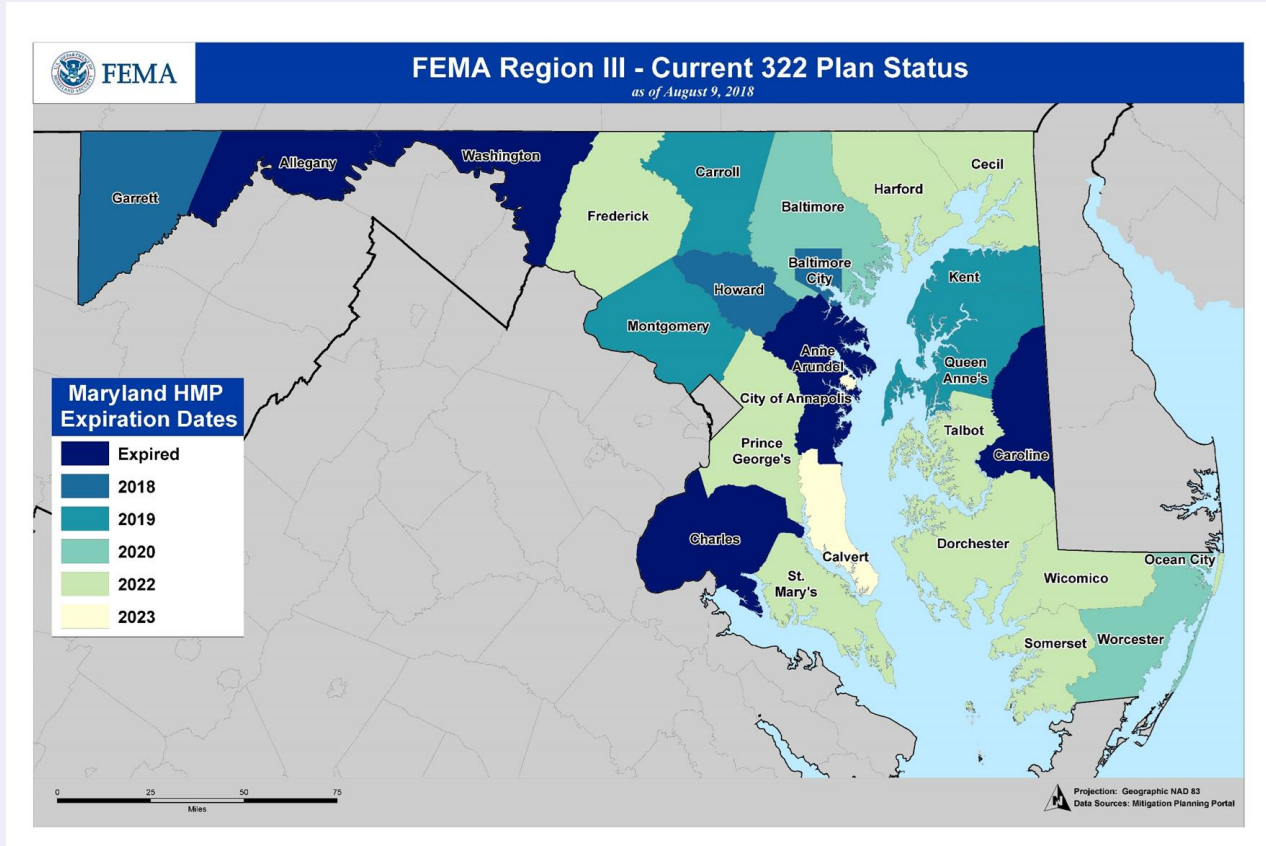
CURRENT INITIATIVES



Culture Shift



Local Hazard Mitigation Planning



5 Year Planning Cycle



Nuisance Flooding Plan Requirement (HB 1350)

By July 1, 2019 “a local jurisdiction that experiences nuisance flooding shall develop a plan to address nuisance flooding”. Plans will be submitted to MD Department of Planning.

- Effective July 1, 2018
- Nuisance flooding is “high tide flooding that causes public inconveniences.
- Plan must be updated at least every 5 years
- Chesapeake and Coastal Service at DNR developing guidance.
 - Contact: Sasha Land
Sasha.Land@Maryland.gov

External Partnerships

- Silver Jackets
- Resiliency Partnership
- DNR Coast Smart Council
- Mitigation Advisory Committee
- State Agencies



Building Local Capacity

- Increased engagement
 - Quarterly Subrecipient webinars
 - Participating in local Hazard Mitigation Plan updates
 - Project scoping
- Training
 - G318 Local Mitigation Planning
 - G393 Mitigation for Emergency Managers
- Development of Subapplicant Guidance materials








Investment Benefit

Natural Hazard Mitigation Saves



Natural Hazard Mitigation Provides the Nation \$6 in Benefit for Every \$1 Invested

National Benefit-Cost Ratio (BCR) Per Peril <small>*BCR numbers in this study have been rounded</small>	Beyond Code Requirements	Federally Funded
Overall Hazard Benefit-Cost Ratio	\$4:1	\$6:1
 Riverine Flood	\$5:1	\$7:1
 Hurricane Surge	\$7:1	Too few grants
 Wind	\$5:1	\$5:1
 Earthquake	\$4:1	\$3:1
 Wildland-Urban Interface Fire	\$4:1	\$3:1

This Interim Study quantified a number of benefits from mitigation, including reductions in:

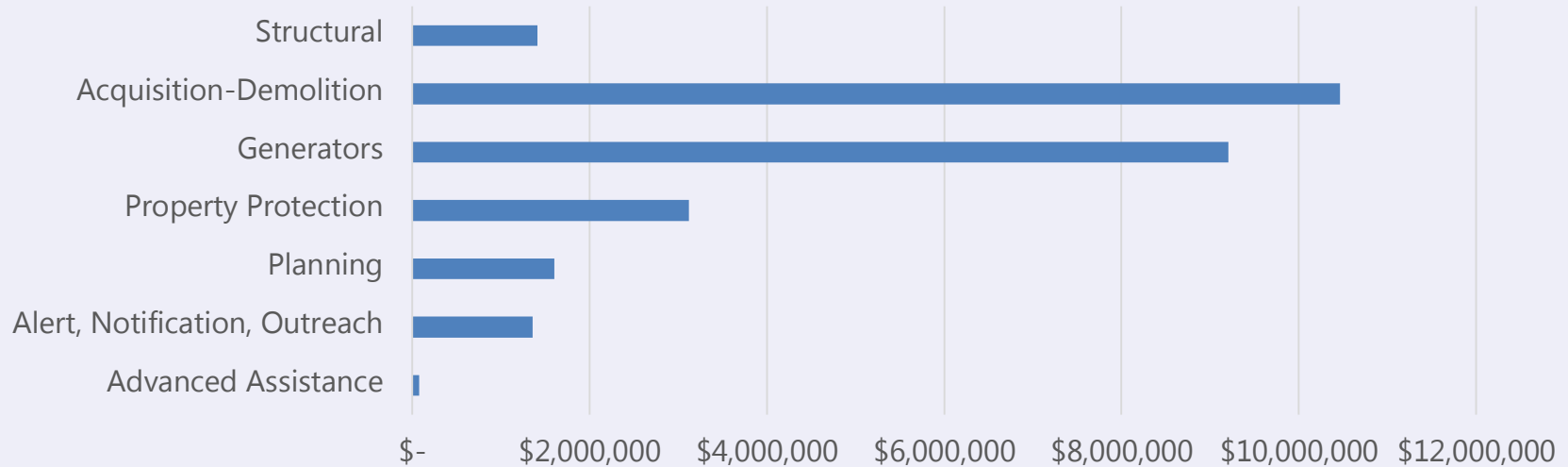
- Future deaths, nonfatal injuries, and PTSD
- Repair costs for damaged buildings and contents
- Sheltering costs for displaced households
- Loss of revenue and other business interruption costs to businesses whose properties are damaged
- Loss of economic activity in the broader community
- Loss of service to the community when fire stations, hospitals, or other public buildings are damaged
- Insurance costs other than insurance claims
- Costs for urban search and rescue



FEMA

Investment Trends

Federal Share of HMA Activities 2010-Present



Investment Strategy

- Refining State Priorities
 - Structural
 - Community-based
- Developing systematic solicitation and ranking for projects
 - Consistency
 - Transparency
 - Empower locals



Mitigation Project Priorities 2018

- Structural localized and non-localized flood risk reduction projects.
- Acquisition and demolition of floodplain properties and structures.
- Emergency power generators for Critical Facilities.
- Property protection measures that protect individual structures.
- Public education and awareness including HMPs.



Community-based Projects

- Reduces the risk and provides benefits for a community (more than 1 property or individual)
- Protects critical infrastructure
- Part of a comprehensive strategy
- Buy-in of local community



Town of Betterton Slope Stabilization

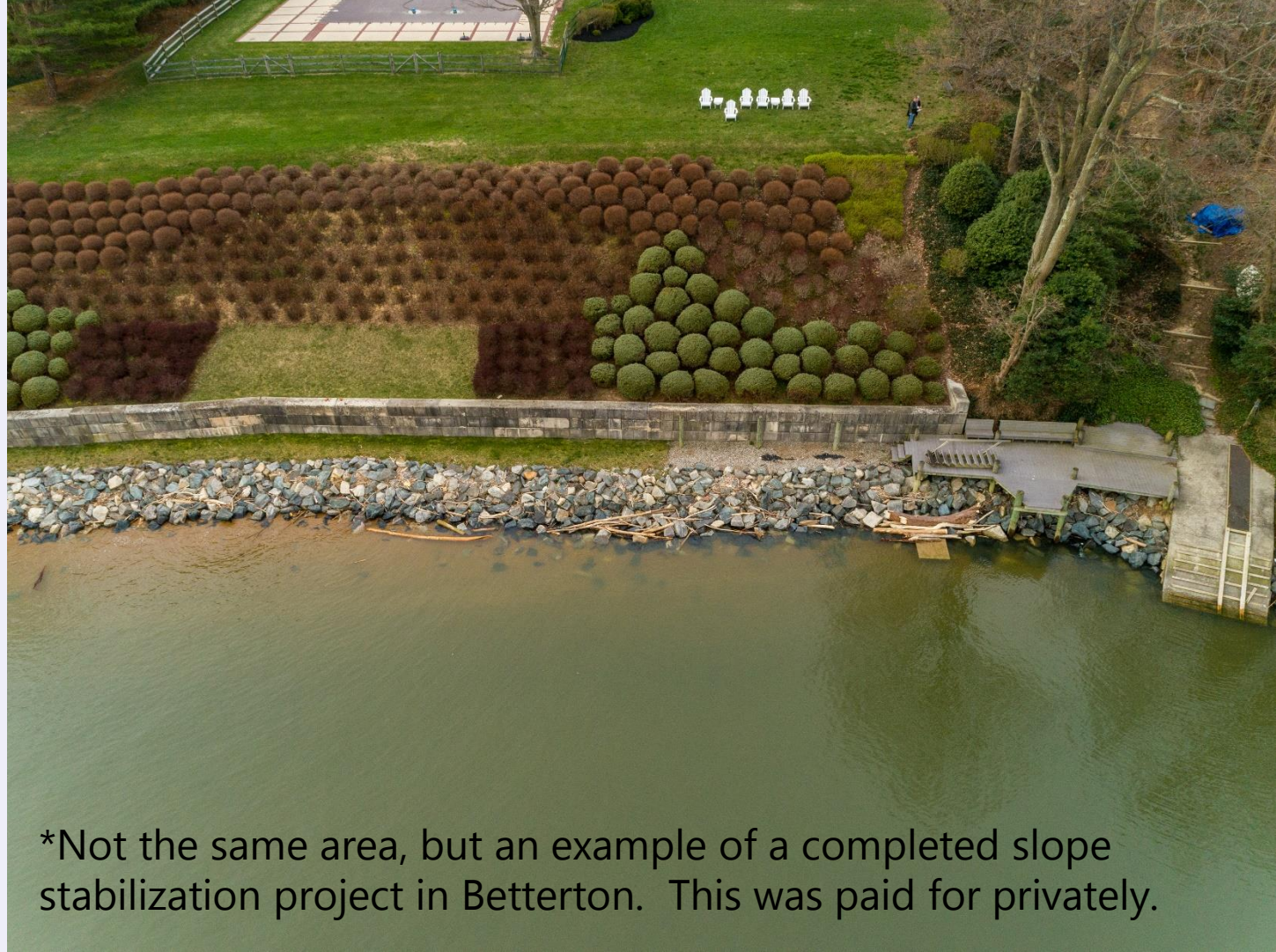


- Erosion rate from 1976-1995 was 1.9 ft./yr.
- Protects critical infrastructure
 - Road provides access for emergency vehicles, residents, and public access to waterfront
 - Providing protection for utilities
- Twelve (12) homes will be protected
- Homeowners contributing
- Buy-in and support from Town officials









*Not the same area, but an example of a completed slope stabilization project in Betterton. This was paid for privately.

LOOKING AHEAD



2019 Objectives

- Developing robust, targeted outreach strategy for Hazard Mitigation
 - Small, impoverished communities
 - High hazard
 - Project activity type focused
- Fostering interagency collaboration
 - Leveraging monetary resources
 - Identifying subject matter experts
 - Joint outreach efforts
- Mitigation workshop(s) in 2019
 - Subject matter experts
 - Highlight community-based and infrastructure projects
 - Gather feedback on 2018 HMA grant process



Vision and Long Term Goals

- Enhanced State Hazard Mitigation Plan
- Stepping outside solely administering FEMA's HMA programs
- Being a leader for Risk Reduction Strategy



Questions and Discussion



Contact

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