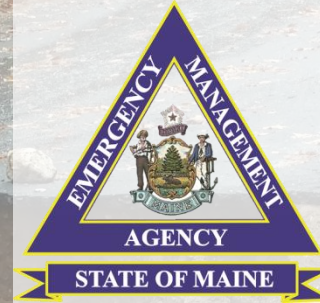


# Hazard Mitigation



KELT Lecture Series  
Patten Free Library, Bath, ME  
May 2, 2018





# Agenda

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- Introduction
- Hazard Mitigation (HM) Plans
- Hazard Mitigation Assistance Grants
- Typical Mitigation Projects
- Other Hazard Mitigation Ideas
- Final Thoughts





# Introduction

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## Becoming more resilient

- Emergency Management in Maine
- Prepare to Respond to & Recover from all-hazards
- Prevent & Protect against human-caused hazards
- Mitigate effects of natural hazards

\$1 spent = \$6 saved





# Introduction

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## Natural Hazard Mitigation - defined

*“Any sustained action taken to eliminate or reduce long term risk to people and property from natural disasters.”*



# Hazard Mitigation Plans







# Hazard Mitigation (HM) Plans

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- Who writes them and where are they?
- Plan components
  - Introduction
  - Adoption
  - **Planning Process**
  - **Risk Assessment**
  - **Strategy**
  - Maintenance



# Hazard Mitigation Assistance Grants







# Hazard Mitigation Assistance (HMA) Grants

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- Pre-Disaster Mitigation (PDM) Assistance
- Flood Mitigation Assistance (FMA)
- Hazard Mitigation Grant Program (HMGP)
- 406 Mitigation





# Hazard Mitigation Assistance (HMA) Grants

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## Grant Eligibility



### 1. Pre-requisite:

-Local jurisdiction must be a part of a FEMA-approved County (Multi-Jurisdiction) Hazard Mitigation Plan

### 2. Cost Beneficial:

-Must meet or exceed Benefit-Cost Analysis

### 3. Compliance:

-Must comply with environmental and historic laws



# Typical Mitigation Projects







# Typical Mitigation Projects



1  
Acquisition/Demolition



2  
Power Generation



3  
Culvert Upgrade





# Typical Mitigation Projects



Bank Stabilization



Road Closure/Bypass





# Eligible Mitigation Projects



## Yes

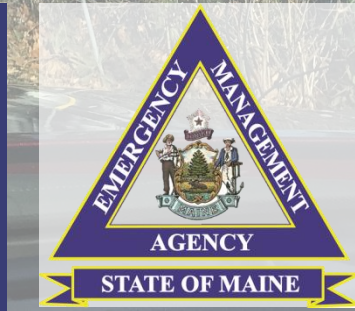
- Public roads / culverts / ditches
- River bank stabilization
- Storm water systems
- Minor structural flood control projects
- Acquisition / Demolition
- Relocation
- Elevation
- Generators

## No

- Emergency repairs
- Maintenance projects
- Capital improvement projects
- Engineering designs
- Studies
- Mapping
- Equipment



# Other Hazard Mitigation Ideas







# Other Hazard Mitigation Ideas

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*Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards*

<http://www.fema.gov/library/viewRecord.do?id=6938>



- Erosion
- **Flood**
- Landslide
- Sea Level Rise
- **Storm Surge**
- Severe Winter Weather
- Etc.



# Other Hazard Mitigation Ideas

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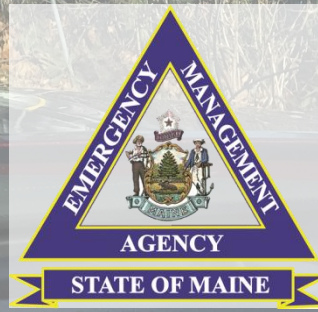
## Flood/Storm Surge

- Form partnerships to support floodplain mgt
- Incorporate flood mitigation in local planning
- Improve storm water drainage system capacity
- Adopt and enforce building codes and development standards
- Remove existing Structures from flood hazard areas
- Protect and restore natural buffers
- Floodproof existing structures





# Final Thoughts







# Final Thoughts

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- ✓ Effective leadership & commitment
- ✓ Collaborative planning (Know your EM)
- ✓ Understand the risks:  
Eg: storm surge inundation maps (SLOSH)  
<http://www.maine.gov/dacf/mgs/hazards/slosh/index.shtml>
- ✓ Challenges
- ✓ \$1 spent = \$6 saved







# Final Thoughts

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## Education & Resources

- ✓ IS-393.a, Introduction to Hazard Mitigation (online FEMA course): <https://training.fema.gov/>
- ✓ G-393: Mitigation for Emergency Managers (in-resident FEMA course) <https://training.fema.gov/>
- ✓ *Natural Hazard Mitigation Saves: 2017 Interim Report*  
<https://www.fema.gov/natural-hazard-mitigation-saves-2017-interim-report>
- ✓ *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards.* <http://www.fema.gov/library/viewRecord.do?id=6938>





# Questions

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