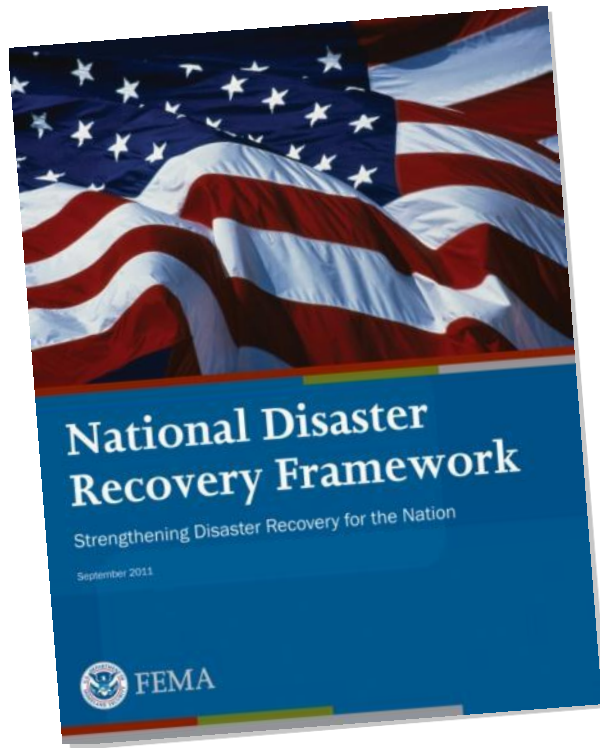


National Disaster Recovery Framework



National Disaster Recovery Framework

– *Strengthening Disaster Recovery For The Nation*

<http://www.fema.gov/recoveryframework/>



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Key Concept: Sustainability and Resilience

NDRF Sustainability –

*“..strengthening the health and human services, social fabric, educational system, environmental sustainability, cultural resources and economic vitality — serves to **enhance the overall resiliency of the entire community** as the recovery progresses. “*



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Recovery Support Functions (RSFs)

- ✓ Community Planning and Capacity Building (DHS/FEMA)
- ✓ Economic (Commerce)
- ✓ Health and Social Services (HHS)
- ✓ Housing (HUD)
- ✓ Infrastructure Systems (USACE)
- ✓ Natural and Cultural Resources (DOI)



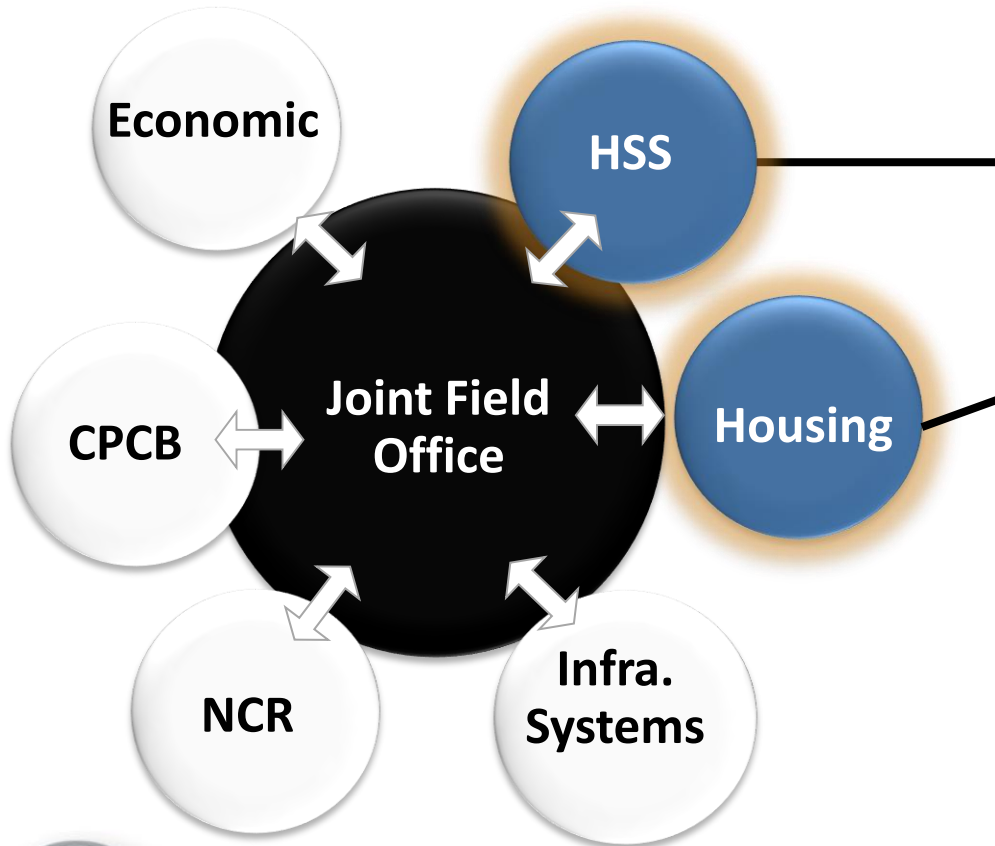
US Army Corps of Engineers



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Federal vs. State Recovery Structure

Federal RSFs



Example:

State Recovery Sectors

Public Health & Health Care

Commerce Dept. / CDBG



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HUD Disaster Recovery Funding

- Community Development Block Grant-Disaster Recovery Program (CDBG-DR)
 - First appropriation in FY1993
- Flexible funding for a broad range of recovery activities
 - Sample activities: buyouts, relocation assistance payments, debris removal, housing rehab, constructing or rehabilitating public facilities (streets, water, sewer, drainage systems), economic development assistance to businesses, etc.
- \$42 Billion allocated between 2005-2013



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CDBG-DR PROCESS

CONGRESS

Approves
Appropriation

HUD

1. Calculates & announces allocations
2. Publishes a notice in the federal register
3. Awards funds

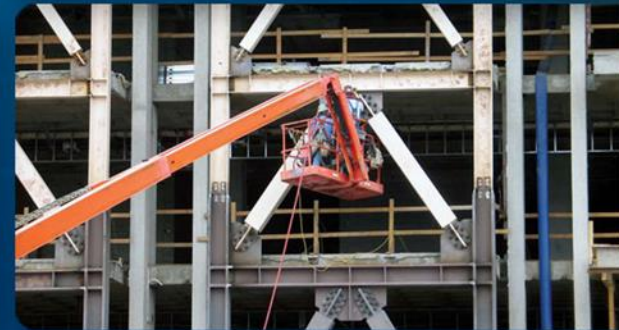
GRANTEE

1. Prepares action plan
2. Administers programs or activities or works with another entity to distribute funds



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Hazard Mitigation Grant Program for Critical Facilities



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Hazard Mitigation

What is hazard mitigation?

- Hazard mitigation is defined as any **sustained action** taken to reduce or eliminate **long-term risk** to human life and property from a hazard event.



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Overview

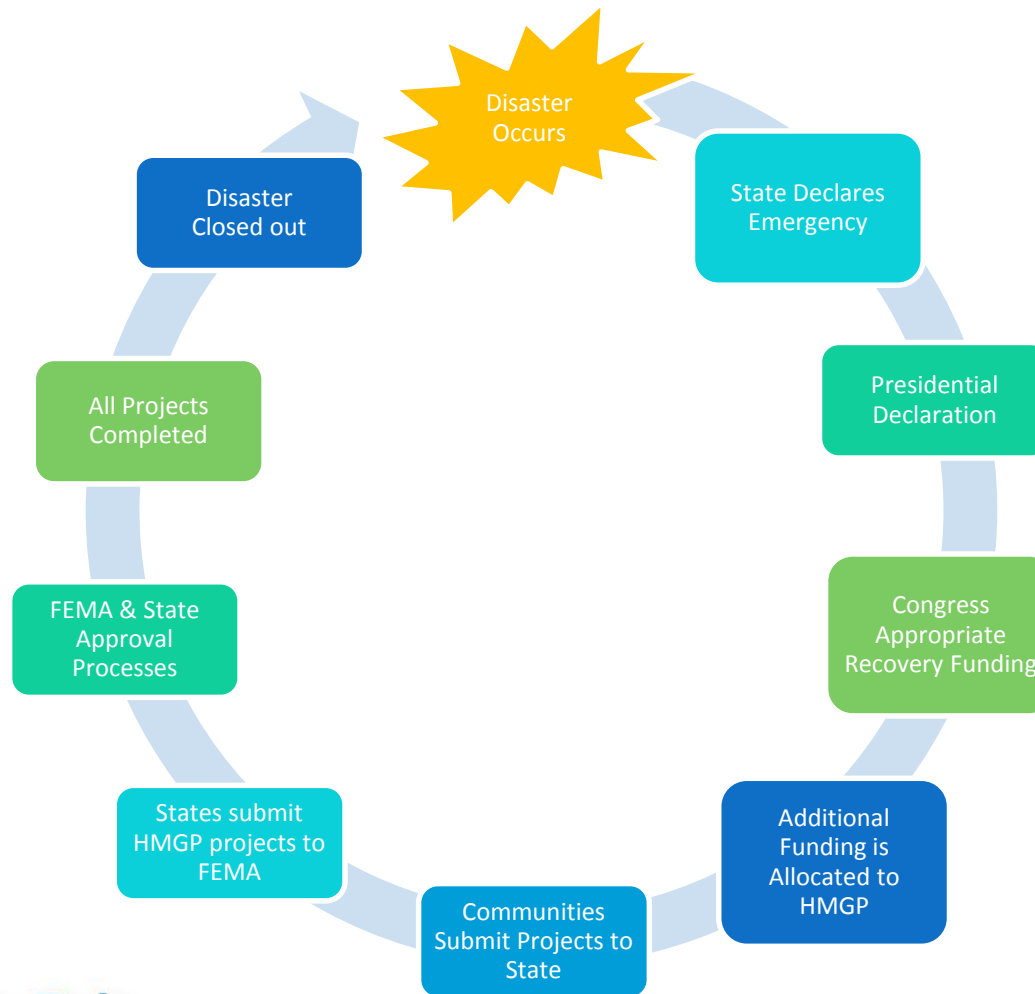
Programs

- FEMA Public Assistance (PA) Program
- Hazard Mitigation Grant Program (404)
 - Program Requirements
 - Project Development
 - New Climate Resilient Mitigation Activity (CRMA) types
- 404-406 Companion Mitigation
- Example Projects
 - Seal Rock Water Intertie
 - Timber Elsie Transmission Undergrounding (404-406)



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Major Disaster Declaration Process



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FEMA Public Assistance: Eligible Activities

Emergency Work

- Debris Removal
- Emergency Protective Measures

Permanent Work

- Roads and Bridges
- Water Control Facilities
 - Drainage channels, pumping facilities, and some irrigation facilities
 - Levees, dams, and flood control channels (restricted eligibility)
- Buildings and Equipment
- Utilities
- Parks, Recreation Facilities, and Other Facilities



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Public Assistance: 406 Mitigation

Section 406 of Stafford Act authorizes

- Cost effective mitigation to **damaged elements** of a facility (see *Disaster Assistance Policy 9526.1*)
- Includes activities performed in addition to those required for applicable codes and standards
- Applied **only** to the parts of the facility that were damaged by the disaster
- Must directly reduce the potential of future, similar disaster damages to the eligible facility
- Requires NEPA compliance



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HMA Available Funding



HMGP is a post-disaster program



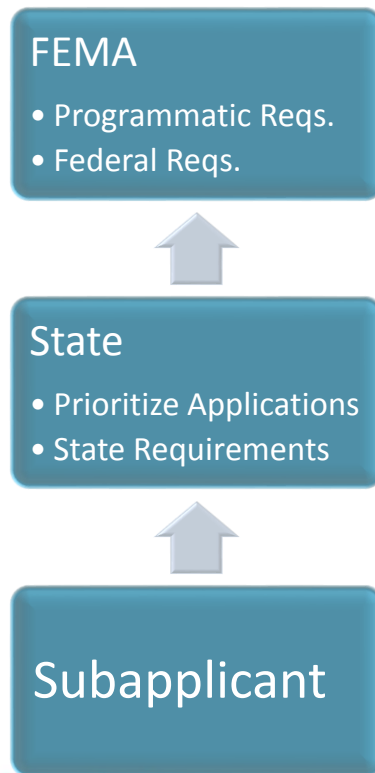
PDM & FMA are available annually, subject to Congressional appropriations
(PNPs Not Eligible)



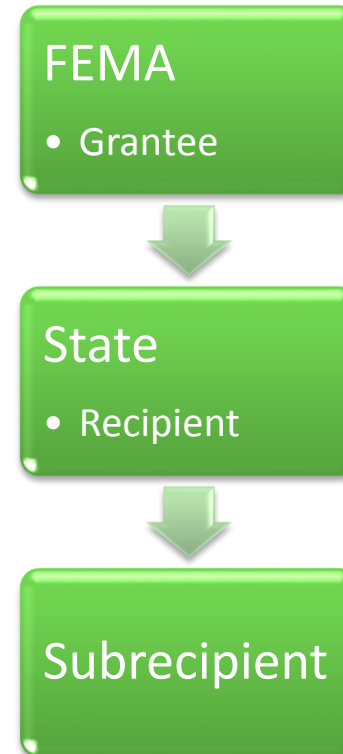
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HMA is Pass Through Funding

Application Review



Award Funding



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Hazard Mitigation Grant Program



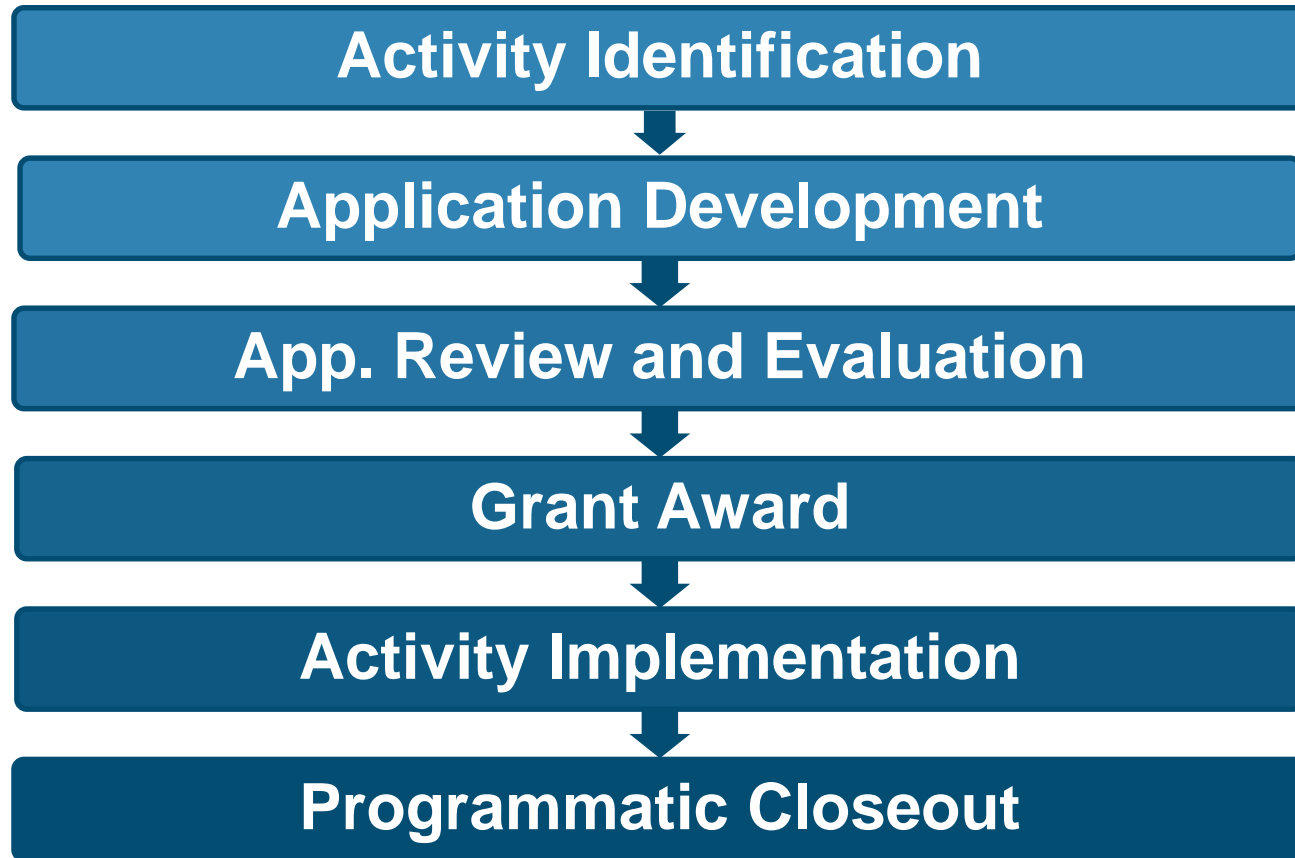
Grant program initiated by a Presidential disaster declaration to mitigate undamaged

- Requested by the Governor
- Presidential major disaster declaration
- Maximum 75/25 Federal Cost Share
 - *State of Oregon currently does not provide match*
- Period of Performance: 36 months after close of Application Deadline
- Subapplicants must have a local Mitigation Plan at time of obligation.
 - *Private Non-Profits do not have to have to have mitigation plans*
 - *Verify your Organization's subapplicant classification with FEMA prior to application development!*



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The Grant Life Cycle



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HMGP and PDM Authorities

Robert T. Stafford Disaster and
Emergency Assistance Act

- HMGP: Section 404
- PDM: Section 203

United States Code

- HMGP: Title 42, U.S.C. 5170c
- PDM: Title 42, U.S.C. 5133



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Sample Utility Projects

Water Utility Providers

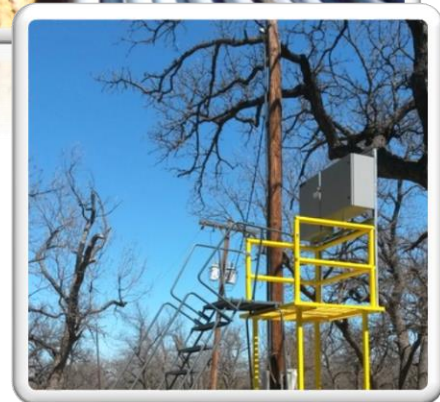
- Intertie Systems
- Seismic retrofits to facilities and lines
- Lift control system elevations
- Emergency generators

Waste Water Treatment

- Seismic retrofits to facilities and lines
- Infrastructure – mitigate sewage overflow
- Emergency generators

Electric Utilities

- Undergrounding transmission lines
- Hazard resistant transmission lines (ice, fallen trees, etc)
- Hazard Resistant construction of facilities



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Ineligible Activities: Projects

- Projects that do not reduce the risk to people, structures, or infrastructure
- Projects that are dependent on another phase of a project in order to be effective
- Projects for which actual physical work has occurred prior to award
- Projects constructing new buildings or facilities
- Water quality infrastructure



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Ineligible Activities: Projects Continued

- Projects that address operation, deferred or future maintenance, repairs, or replacement
- Studies not directly related to design and implementation of a proposed project
- Preparedness measures and response equipment
- Project with the sole purpose of open space acquisition of unimproved land
- Projects that involve land that is contaminated with hazardous waste



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HMA Program Guidance

www.fema.gov/media-library/assets/documents/103279



Hazard Mitigation Assistance Guidance

Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, and Flood Mitigation Assistance Program

February 27, 2015



Federal Emergency Management Agency
Department of Homeland Security
500 C Street, S.W.
Washington, DC 20472



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HMA Guidance - Project Type Addendums

- Property Acquisitions
- Wildfire Mitigation
- Safe Rooms
- Mitigation Reconstruction
- Structure Elevation



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Hazard Mitigation Assistance Guidance Addendum

Hazard Mitigation Grant Program, Pre-Disaster Mitigation
Program, and Flood Mitigation Assistance Program

February 27, 2015



Federal Emergency Management Agency
Department of Homeland Security
500 C Street, S.W.
Washington, DC 20472



Federal Emergency Management Agency
Department of Homeland Security
500 C Street, S.W.
Washington, DC 20472

February 27, 2015

Hazard Mitigation Grant Program, Pre-Disaster Mitigation
Program, and Flood Mitigation Assistance Program

Project Identification Steps

Step 1: Define the problem.

Step 2: Brainstorm potential alternatives.

Step 3: Establish criteria.

Step 4: Evaluate alternatives vs. criteria.

Step 5: Choose preferred alternative.



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Subapplication Contents

- Scope of Work
- Schedule
- Cost Estimate
- Feasibility & Effectiveness Documentation
- Benefit-Cost Analysis & Documentation
- EHP Documentation

Subapplication

- Scope of Work
- Schedule
- Cost Estimate
- Benefit-Cost Analysis & Documentation
- Feasibility & Effectiveness Documentation
- EHP Documentation



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Project Scope of Work (SOW)



Detailed description of the proposed project:

- Who is affected?
- Who is performing the work?
- What is the problem to be mitigated?
- What is the proposed project?
- Where is it located?
- How will it be implemented?
- How will it solve the problem?

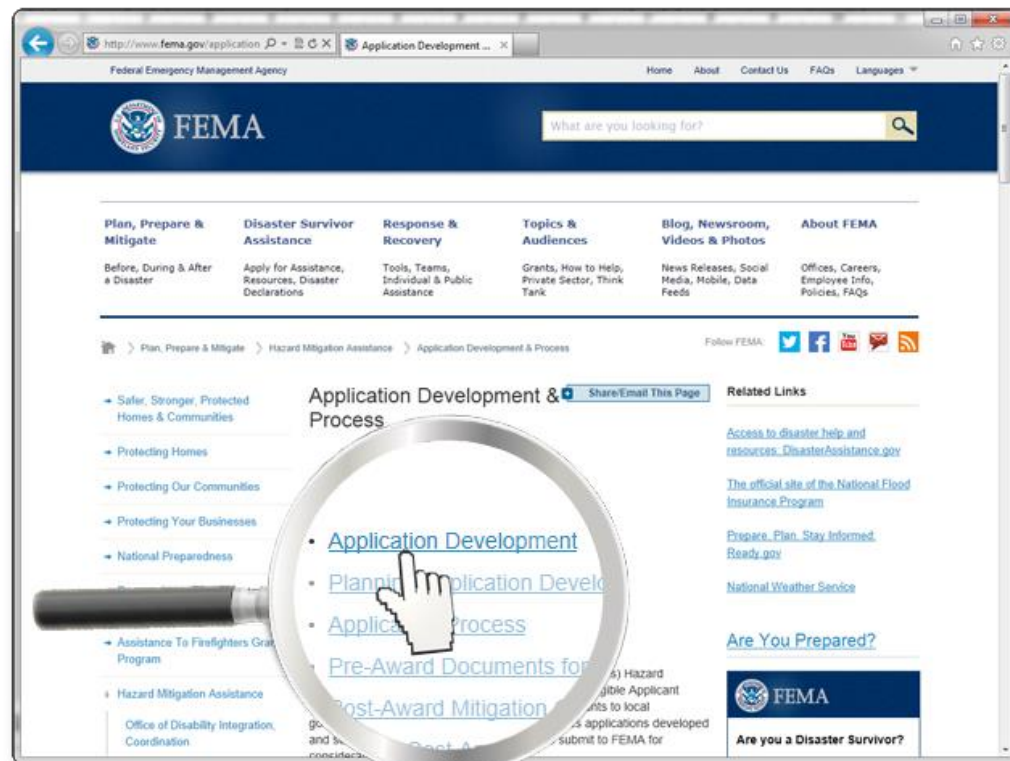


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SOW – Resources

Procedures for developing SOWs

<http://www.fema.gov/application-development-process>



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Schedule



- Divides the activity into measurable tasks or milestones
- Includes all itemized tasks
- Provides a realistic schedule for each task

Projected time must not exceed the grant performance period

Project Schedule

Start Date	Est. Hours	Hours Spent	Hours Remaining	End Date
Task One				
3/15	40	20	20	3/22
3/15	80	40	40	4/2
3/15	50	35	15	4/2
4/3	35	20	15	4/7
4/7	10	2	8	4/9
Task Two				
4/10	80	20	60	4/15
4/16	5	2	3	4/16
Task Three				
4/18	20	0	20	4/22



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Cost Estimate/Budget

- Provides breakdown of costs for the activity
- Identifies contractor costs
- Includes management costs
- Documents sources for estimated costs



Budget

	\$
Personnel	
• Engineer	6,000
• Associate Engineer	2,500
• Inspector	1,500
Subtotal	10,000
Equipment	
Subtotal	20,000
Supplies	
Subtotal	5,000
TOTAL	35,000



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Project Cost Estimate/Budget



- Project Manager
- Contractor
- Engineering/architectural designs
- Construction costs
- Equipment
- Permits/surveys
- Site preparation/restoration
- Contingency costs



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Duplication of Benefits

Funding cannot duplicate funding available from other Federal Agencies.

- A duplication occurs when a beneficiary receives assistance from multiple sources for a cumulative amount that exceeds the total need for a particular recovery purpose.
 - Other Federal funding must be delineated outside of the project budget (ie: Other Federal funding generally cannot be used as match)
 - Insurance payouts for damages can be used towards match.



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HMGP Pre-Award Cost

- Costs incurred after the Disaster Declaration, but prior to the date of the Federal award
 - Development of BCA
 - Collection of EHP data
 - Preparing for design specifications
 - Community outreach & meetings related to the development of the application



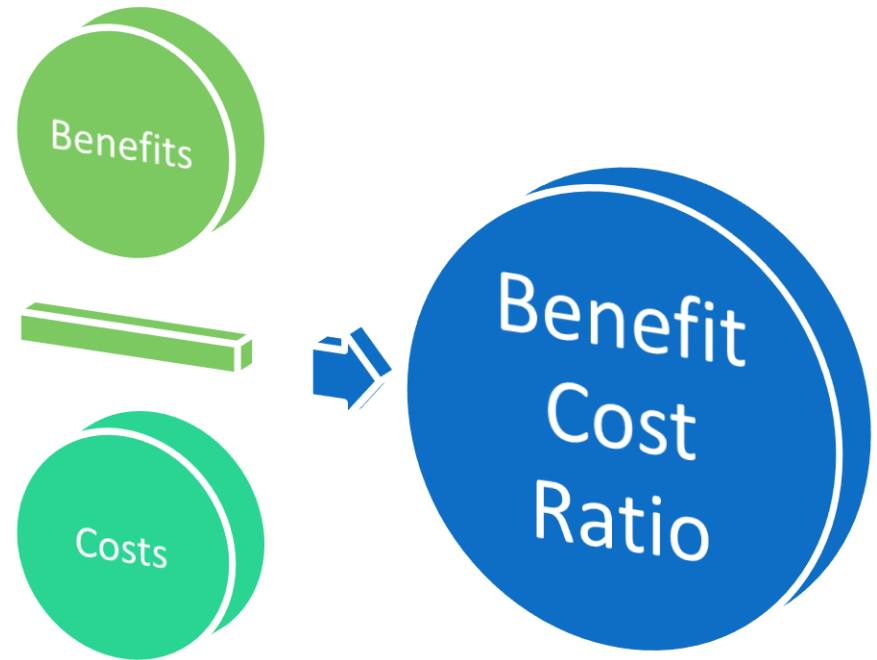
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Benefit Cost Analysis

Benefits of the project must be equal to or greater than the cost of the project (1:1)

- Useful Information
 - Historical record of damages
 - Historical record of service outages



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BCA Resources

BCA Training:

- Field delivery: Available by request through FEMA's Regional Offices (subject to availability)
- FEMA Course: Offered twice a year at the Emergency Management Institute

BCA Website:

- <http://www.fema.gov/benefit-cost-analysis>

BCA Technical Assistance Helpline:

- (855) 540-6744
- bchelpline@fema.dhs.gov



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Environmental Planning and Historic Preservation

EHP laws have different documentation requirements

Complete project application development and documentation may expedite the EHP review:

- SOW
- Property data
- Photos/maps
- Design/sketch/site plan

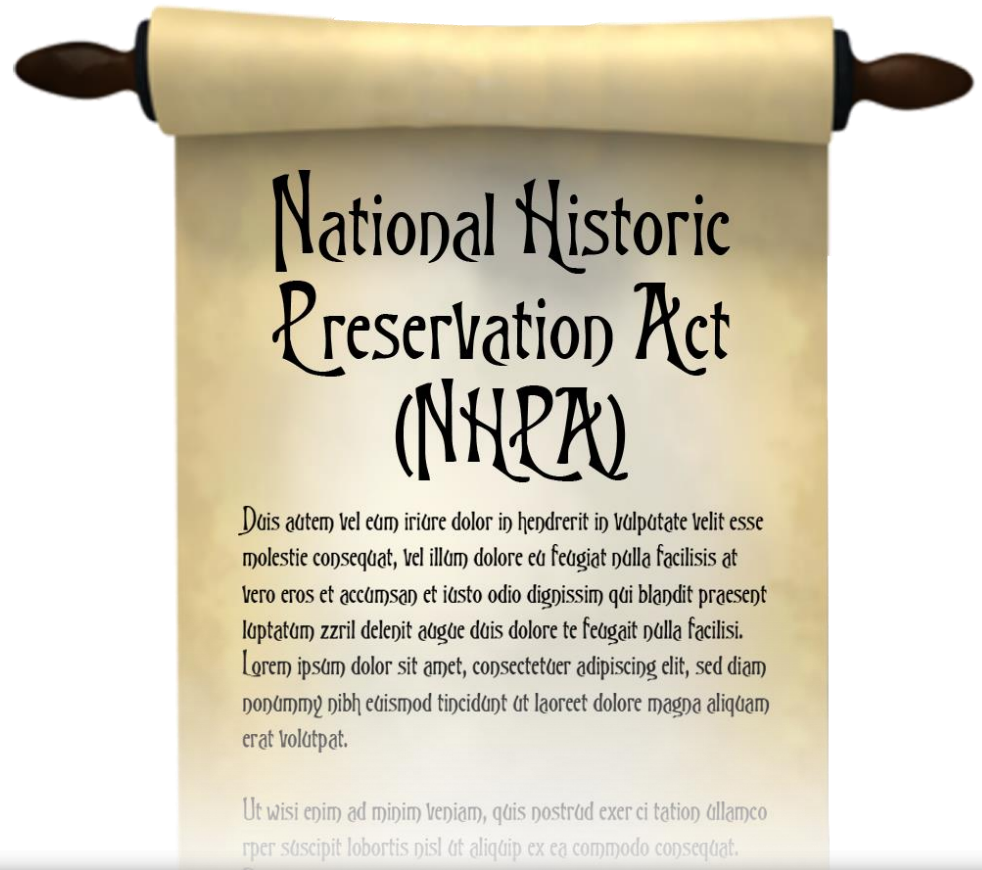
! Begin EHP documentation early



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EHP Regulatory Requirements

- National Environmental Policy Act
- National Historic Preservation Act
- Endangered Species Act
- Executive Order 11988
(Floodplain Management)
- Executive Order 11990
(Protection of Wetlands)
- Executive Order 12898
(Environmental Justice)



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Climate Resilient Mitigation Activities

4 new Project types were introduced September 2015

- **Aquifer Storage and Recovery** – (Drought Mitigation)
 - Capturing water when abundant and store subsurface
- **Floodplain and Stream Restoration**
 - Reestablishment of floodplain function to pre-development
- **Flood Diversion and Storage**
 - Diverting floodwaters into above ground reservoirs, floodplains, wetlands, green infrastructure, or other storage
- **Green Infrastructure**
 - Ecosystem-based approach to replicate a site's pre-development, natural hydrologic function. Use of Low Impact Development (LID) techniques tailored to site.



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404-406 Mitigation

406 funding can address **damaged** components while

404 funding can address **undamaged** components

- The State must identify potential projects for consideration of joint 404 and 406 funding early in recovery period to allow time for comprehensive and streamlined eligibility review

Event	406 (PA)	404 (HMGP)
Winter Storm	Underground lines damaged from declared storm	Underground adjacent undamaged lines
Landslide	Relocate damaged waterline outside of geo-hazardous area	Relocate overhead undamaged electrical lines underground in same trench as relocated waterline
Wildfire	Integrate ignition-resistant construction techniques during repair process of damaged structural elements	Implement defensible space measures and hazardous fuels reduction



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404-406 Integration Key Takeaways

- State identification of potential projects for consideration of joint 404 and 406 funding **early in recovery period** to allow time for comprehensive and streamlined eligibility review
- State must set 404-406 as a high priority
- Accurate detailed scopes of work & cost estimates
- Early coordination with Environmental review staff
- Educate yourselves and be your own advocate!



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DR-4055 Seal Rock Water System Intertie

Seal Rock's water supply provided by City of Toledo Water System who had documented history of interruptions.

- HMGP funded intertie to neighboring Newport Water System to provide secondary source
 - FEMA funded \$571,667 of total project cost \$837,983
 - Project included
 - Installation of a buried PVC pipe connecting the two water systems and control valves
 - Pump-station building with monitoring and controlling equipment
 - Emergency generator for backup power to the pump-station



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DR-1683 Timber Elsie Power Line Underground

35kV main transmission line system damaged in winter 2006 wind storm. Utility had a documented history of line damage previous storms.

- HMGP funded undergrounding of undamaged portions of transmission lines
 - FEMA 406 funded approx \$500,140 towards total project cost of approx \$2,055,220
 - Winter Storm damaged 15 miles of electric transmission line
 - 406 PA Mitigation funded undergrounding of all 15 miles of damaged line
 - 404 HMGP funded undergrounding 8.91 miles of connected high risk line



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Resources

Guidance and Policy

[Hazard Mitigation Assistance \(HMA\) Guidance published February 2015](#)

[2 and 44 Code of Federal Regulations](#)

Project and Planning Ideas

[FEMA P-737 Home Builder's Guide to Construction in Wildfire Zones](#)

[FEMA P-754 Wildfire Hazard Mitigation Handbook for Public Facilities \(P-754\)](#)

[Mitigation Ideas](#)

[Rebuilding After a Wildfire](#)



FEMA

FEMA Region 10 Contacts

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- Thomas Donnelly@fema.dhs.gov or 425.487.4578

Brandon Sweeza – Hazard Mitigation Assistance Specialist

- Brandon.Sweeza@fema.dhs.gov or 425.487.2022



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Eligible Activities



Eligible Activities

1. Mitigation Projects	✓	✓	✓
Property Acquisition & Structure Demolition	✓	✓	✓
Property Acquisition & Structure Relocation	✓	✓	✓
Structure Elevation	✓	✓	✓
Mitigation Reconstruction	✓	✓	✓
Dry Floodproofing of Historic Residential Structures	✓	✓	✓
Dry Floodproofing of Non-Residential Structures	✓	✓	✓
Minor Localized Flood Reduction Projects	✓	✓	✓
Structural Retrofitting of Existing Buildings	✓	✓	✓
Non-Structural Retrofitting of Existing Bld. & Facilities	✓	✓	✓



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Eligible Activities *Continued*

Eligible Activities	 HAZARD MITIGATION GRANT PROGRAM	 PRE-DISASTER MITIGATION	 FLOOD MITIGATION ASSISTANCE
1. Mitigation Projects	✓	✓	✓
Safe Room Construction	✓	✓	✗
Infrastructure Retrofit	✓	✓	✓
Soil Stabilization	✓	✓	✓
Wildfire Mitigation	✓	✓	✗
Post-Disaster Code Enforcement	✓	✗	✗
5% Initiative Projects	✓	✗	✗
2. Hazard Mitigation Planning	✓	✓	✓
3. Management Costs	✓	✓	✓



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Pre Disaster Mitigation Grant Program (PDM)

PDM is a nationally competitive grant program

- 75/25 Match
- FY 2015 - \$30 million available for grants
- FY 2016 - \$90 million available for grants
- Agency priorities set which have considerations for:
 - Non-Flood and Flood Mitigation Projects
 - Availability of HMGP Funding
 - Hazard Mitigation Plan Development
 - Climate Resilient Mitigation Activities (CRMA)
- \$4 Million Federal Share Cap



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Flood Mitigation Assistance Program (FMA)

FMA is a nationally competitive grant program designed to reduce National Flood Insurance Program (NFIP) claims

- FY 2015 - \$150 million available for grants
- FY 2016 - \$199 million available for grants
- Agency priorities set which have considerations for:
 - Severe Repetitive Loss (SRL)
 - Substantial Damage
- 75/25 Match
- 100% Federal if 2 or more claims totaling value of structure



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