

Mitigate FL

3rd Quarter Meeting

Tuesday, September 11, 2018

Kelley Training Room

1:00-2:00 pm

Audio Information

Number: 1-888-670-3525

Passcode: 1886032254



REMEMBERING & REFLECTING



Introductions

- Name
- Agency

For Our Friends on the Phone

Please make sure your phone is muted during the meeting.

To mute / unmute your phone press *6.

Please DO NOT put your phone on hold.



Agenda

- LiDAR Acquisition Plan
- New Staff in Bureau
- Insurance Specialist
- State Floodplain Management Office
- Individual State Agency Meetings
- Hurricane Irma Loss Avoidance
- Mitigation Grant Updates
- Florida Resilient Coastlines Program
- Historic Preservation and Mitigation
- FEPA Mitigation Working Group
- NEMA Mitigation Committee
- Silver Jackets
- FLASH Overview



LiDAR Acquisition Plan



Florida Statewide LiDAR

2018 LiDAR Acquisition Plan

Removing those areas that fail to meet 3DEP requirements by quality level and or age and only displaying areas that meet QL1 or QL2 and have been acquired after 2012, we can focus on those areas outside of those display as the areas of Florida lacking adequate LiDAR coverage.

In late 2017 and early 2018, Northwest Florida Water Management District led the charge with stakeholders to collect QL2 data within the Florida panhandle.

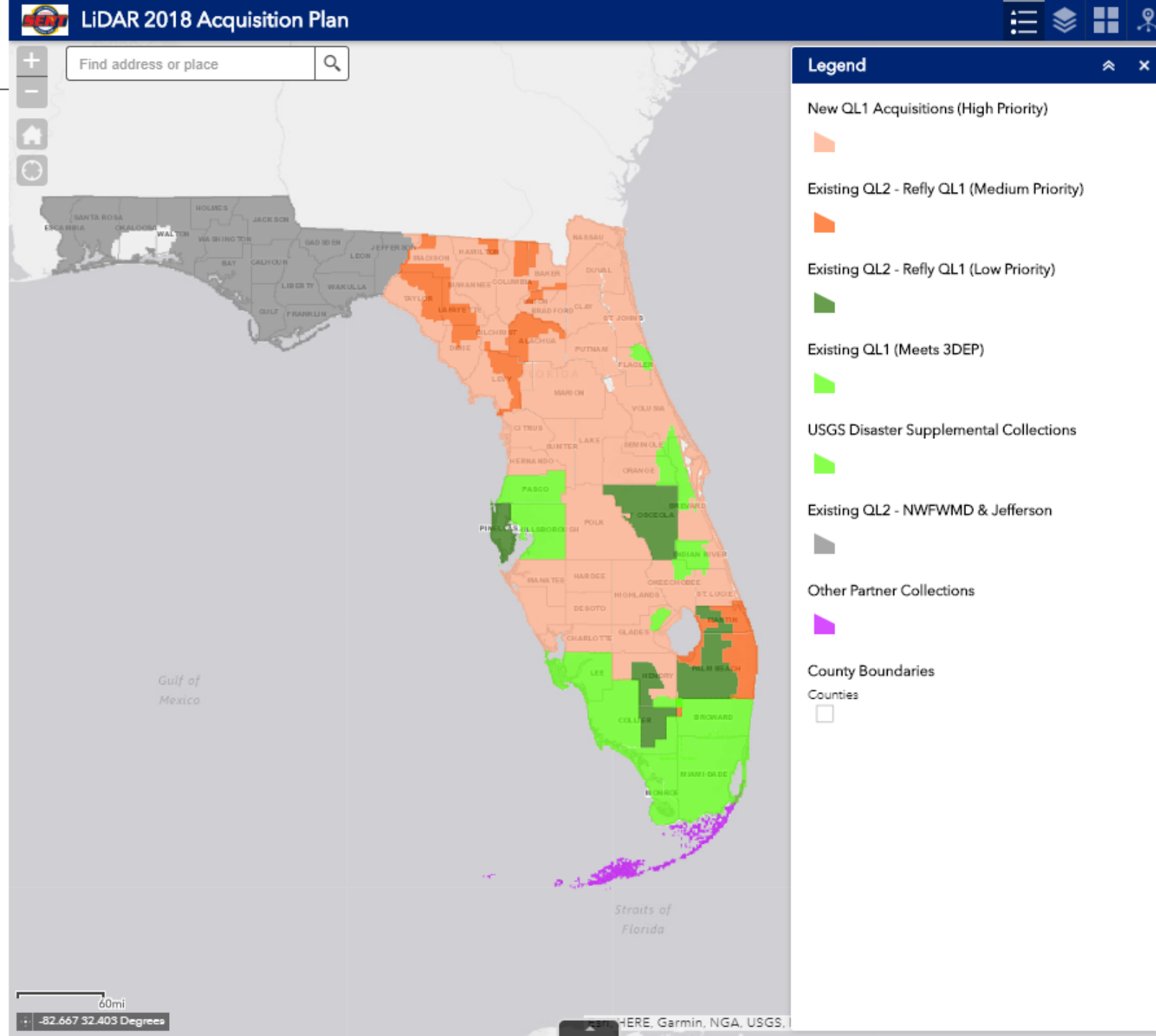
In addition, USGS has identified two areas within South Florida to target for collection with QL1 specification funded under the USGS Disaster Supplemental.

This map depicts the targeted FDEM LiDAR acquisition plan collecting QL1 over remaining areas of the Florida peninsula that do not meet at least QL2. Additionally, some existing QL2 in the peninsula is also targeted for re-collection to QL1.

To view the acquisition footprint of contemporaneous aerals within the project footprint, [click here](#).

Aerial Acquisition

A goal of the 2018 LiDAR Project is to collect contemporaneous aerals within the project footprint. This map depicts the footprint where



LiDAR Acquisition Plan

- LiDAR flights will start in December 2018 and should be concluded by April 2019
- Story Map available here:
<https://www.arcgis.com/apps/MapJournal/index.html?appid=c1a901b51646442db0eff37cbb98219f>



Bureau Staff

- Technical Unit (14 people total)
 - 7 Environmental Specialists
 - 6 Engineers
- HMGP Unit (12 people total)
 - 9 Project Managers
- State Floodplain Management Office (6 people total)
 - 6 Floodplain Management Specialists
- Mitigation Finance (12 people total)
 - 2 Specialists for grant reconciliations
 - 3 Non-Disaster grants Project Manager
 - 4 Grant Specialists
 - 2 other specialists



Insurance Specialist

New position in Mitigation Bureau:

Acts as technical insurance team lead in development of insurance market intelligence reports and analysis as pertinent to flood insurance in mitigation grant funding

- Follows and analyzes flood insurance trends and private residential flood insurance company product availability to the NFIP platform
- Monitors and reports on NFIP proposed rates and policy form changes for FDEM's involvement/input in any changes



Insurance Specialist

- Communicate on NFIP and FEMA insurance policies and procedures and any proposed changes
- Researches and reports on environmental and insurance data that would be useful for floodplain management purposes
- Creates and conducts end-user training on insurance tools and practices
- Acts as FDEM's liaison with a diverse group of government, private sector agencies, local stakeholders, and subject matter experts on creating a greater understanding of flood risk and the implementation of flood preparedness, mitigation, and flood insurance matters



State Floodplain Management Office

- Revolutionize Community Assistance Visits
- IBC Amendment for Public Restrooms



NFIP CAP-SSSE

State Coordinating Office Regional Engagement
(SCORE)

+

Community Assistance Visits (CAVs)

=

“SCORE CAVs”



Revolutionizing CAVs

- CAVs: meet with local floodplain staff to discuss community implementation of their *quid pro quo* responsibilities
- Traditionally 25 per year, but over next 3 years propose:
 - State to conduct interactive “Regional Engagement Meetings”
 - 8 Plenary Meetings per year attended by 18-20 communities (156 avg per year)
 - One-on-one meetings with all communities



Advantages

- Downplay the feel that a CAV is an “audit”
- Increase inter-community knowledge
- Share successful floodplain management strategies
- Communicate key info and procedures to wider audience
- Hear critical concerns from communities
- Develop new regional solutions and strategies
- Consider community needs and resolve compliance matters



Floodplain Tours & Compliance

- Conduct Floodplain Surveys 3 weeks before Plenary
- Paperless tablets, pictures & address sheets uploaded to Cloud
- Address sheets & photos sent to communities
- Post Plenary: One-on-One Meetings with communities
- One Plenary Meeting report with sections specific to communities



Logistics of Proposal

- State Divided into 3 Regions
 - South, Central & North with panhandle
- Start Date will be October 15, 2018 with first Plenary in Sarasota, Florida
- 7 more Plenaries in South Florida this year



International Building Code

- International Building Code (IBC)
 - The “base code” for the Florida Building Code (FBC)
- Florida Proposed Code Amendment
 - Public Restrooms below Base Flood Elevation (BFE) in Special Flood Hazard Areas (SFHAs)



Issue



- Sometimes 18-20 feet above grade
- Long ramps, up to 300 feet long
- Ramps create more obstruction
- Difficult for mobility-challenged people
- Costly to design, build, and maintain



Issues (cont.)

- Many local governments have ignored elevation requirements
 - Consider restrooms to be neither “residential” or “non-residential” therefore not required to comply with elevation requirements in SFHAs
 - This is wrong, restrooms are “non-residential” structures
- FEMA HQ states that restrooms must comply with NFIP according to 44CFR regulations that govern floodplain management
- Must be elevated to or above BFE, or dry floodproofed (in Zone AE)



Possible Solutions

👎 Change NFIP regulations

👎 Draft guidance documents for broader interpretation of regulations

👍 Appoint a nationwide Public Restroom Study Committee

👍 Attempt to change International Building Code



Proposed Resolution

- Florida Proposed Amendment to IBC Section 3114
- Public restrooms only on public lands for public use
- Can be part of buildings, but only restroom may be below BFE
- Must comply with requirements of ASCE 24 except for elevation
- Exception for electrical to address health, life safety & NEC
- Exception for plumbing that minimizes or eliminates infiltration of, or discharge into, floodwaters



What Registered ICC Members Can Do!

Vote!
To Support
“Public Comment on Proposal”

IBC G 149-18

“3114 PUBLIC USE RESTROOM BUILDINGS IN FLOOD HAZARD AREAS”

At the Public Comment Hearing, Richmond, VA, October 24 – 25, 2018
Or vote online November 1 – 15, 2018



Individual State Agency Meetings

- Agency for Health Care Administration
- Agency for Persons with Disabilities
- Dept. of Business and Professional Regulation
- Dept. of Economic Opportunity
- Dept. of Environmental Protection
 - EM, Division of State Lands, Dam Safety Program
- Dept. of Juvenile Justice
- Dept. of Management Services
- Dept. of State
 - Secretary, Historic Preservation
- Public Service Commission
- Dept. of Transportation
 - EM, Director
- Dept. of Agriculture and Consumer Services – Florida Forest Service
- Dept. of Revenue



Hurricane Irma Loss Avoidance

The Hurricane Irma Loss Avoidance Assessment will be released later this month.

FDEM began conducting Loss Avoidance Assessments in 2012 and has since completed seven studies.

This analysis demonstrates that, on average, Florida can expect an almost full Return on Investment (ROI) on mitigation projects within six years.



Hurricane Irma Loss Avoidance

Table 2. Summary of Findings for Previous Loss Avoidance Assessments in Florida (2012-2017)

Disaster Assessed	Project Costs	Losses Avoided	ROI
Tropical Storm Fay (2008), North Florida Flood Event (2009), Unnamed June Flood Event (2012), Tropical Storm Debby (2012)	50 projects cost \$18.9 million	Approximately \$21.9 million in expected losses	16%
Hurricane Isaac (2012)	5 projects cost \$8.3 million to protect 842 structures	Approximately \$44 million in expected losses, with over \$35 million avoided	435%*
Severe Storms and Flooding (2013)	32 projects cost \$4.2 million	Approximately \$5.4 million in expected losses, with over \$1 million avoided	29%
Florida Severe Storms, Tornadoes, Straight-Line Winds, and Flooding (2014)	33 projects cost \$18.4 million	Approximately \$24.1 million in expected losses, with \$5.6 million in losses avoided	54%
Hurricane Hermine (2017)	60 projects cost \$9.7 million to protect 110 structures	Approximately \$20.7 million in losses avoided	82%
Hurricane Matthew (2017)	40 Projects cost \$19.2 million to protect 4,407 structures	\$81.1 million in total losses avoided	422%

*Estimated ROI for Hurricane Isaac examined a significant number of drainage projects which typically experience a high ROI.



Hurricane Irma Loss Avoidance

- Hurricane Irma impacted 73 projects that had a combined capital cost of \$26.2 million.
- Without mitigation, damages to the project sites affected by Hurricane Irma would have cost approximately \$15.1 million.
- The event ROI is 58%, with an aggregate ROI of 223% and an average ROI of 178%.



Grant Updates

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



HMGP Irma Update

- Applications received for Hurricane Irma (DR-4337): 746
- Requests for Information and your Point of Contacts
- 12 Month Date (September 10th) and what to expect
- Questions about your applications



HMGP Contacts

Program Eligibility

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Engineering

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Pre-Disaster Mitigation (PDM) Grant Program

- Application period: October 1, 2018 – January 31, 2019
- NOFO posted here: <https://www.grants.gov/web/grants/search-grants.html>
- Fact Sheet: <https://www.fema.gov/media-library-data/1533304084144-6d76186dff5b91c0392ea508e8cc0ee8/PDM.pdf>
- More Info on FDEM Website: <https://floridadisaster.org/dem/mitigation/pre-disaster-mitigation-grant-program/>



New this year!

PDM Resilient Infrastructure Funding

PRE-DISASTER MITIGATION (PDM) GRANTS
provide competitive funding for...



STATE



LOCAL



TRIBAL

...government projects that reduce their
communities' risks from natural hazards.

One way PDM grants
reduce risk is through

**Resilient
Infrastructure
Projects**

*A new opportunity for the
2018 grant application period*



During the FY 2018 funding period,
FEMA will award the highest ranked
Resilient Infrastructure subapplicants
up to \$10 million Federal cost share.



Resilient Infrastructure projects may include those that help communities
mitigate damage from many types of natural hazards.



FLOOD



EARTHQUAKE



WIND



WILDFIRE



DROUGHT



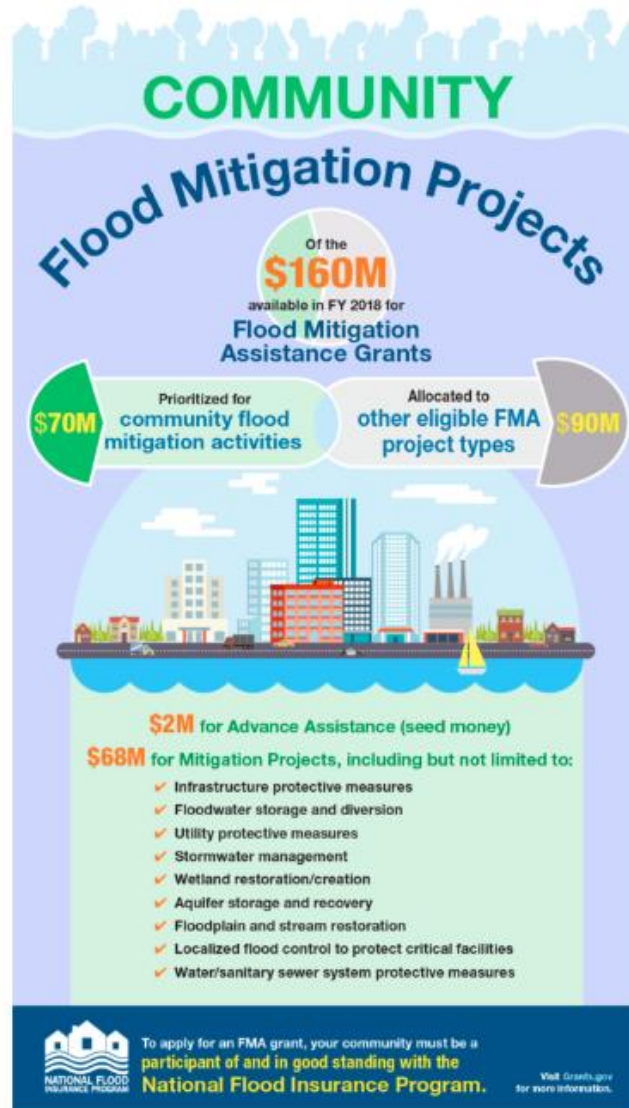
FEMA

Flood Mitigation Assistance (FMA) Grant Program

- Application period: October 1, 2018 – January 31, 2019
- NOFO posted here: <https://www.grants.gov/web/grants/search-grants.html>
- Fact Sheet: [https://www.fema.gov/media-library-data/1534266359629-01e90efe4f62f4510898f244a5501f41/Fact Sheet.pdf](https://www.fema.gov/media-library-data/1534266359629-01e90efe4f62f4510898f244a5501f41/Fact_Sheet.pdf)



August 15, 2018 - [Subscribe](#)



Florida Resilient Coastlines Program

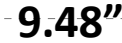
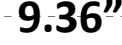
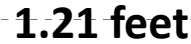
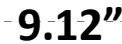
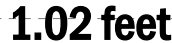
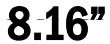
THE FLORIDA DIVISION OF EMERGENCY MANAGEMENT





Creating a More Resilient Florida Coastline

Whitney Gray
Administrator, FRCP
September 11, 2018





Florida Resilient Coastlines Program

Vision and Mission

Synergizing community resilience planning, natural resource protection tools, and funding to prepare Florida's coastal communities for the effects of climate change, especially coastal flooding, erosion, and ecosystem changes from sea level rise.

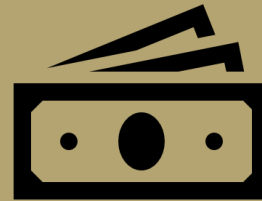


Florida Resilient Coastlines Program



RESOURCES

Florida Adaptation Planning
Guidebook



FUNDING

Resilience Planning Grants



COORDINATION

Quarterly Coastal
Resilience Forum



Adaptation Planning Guidebook

Purpose: Provide a framework to develop an initial adaptation plan, or update an existing plan based on current Florida law, requirements, and recommendations

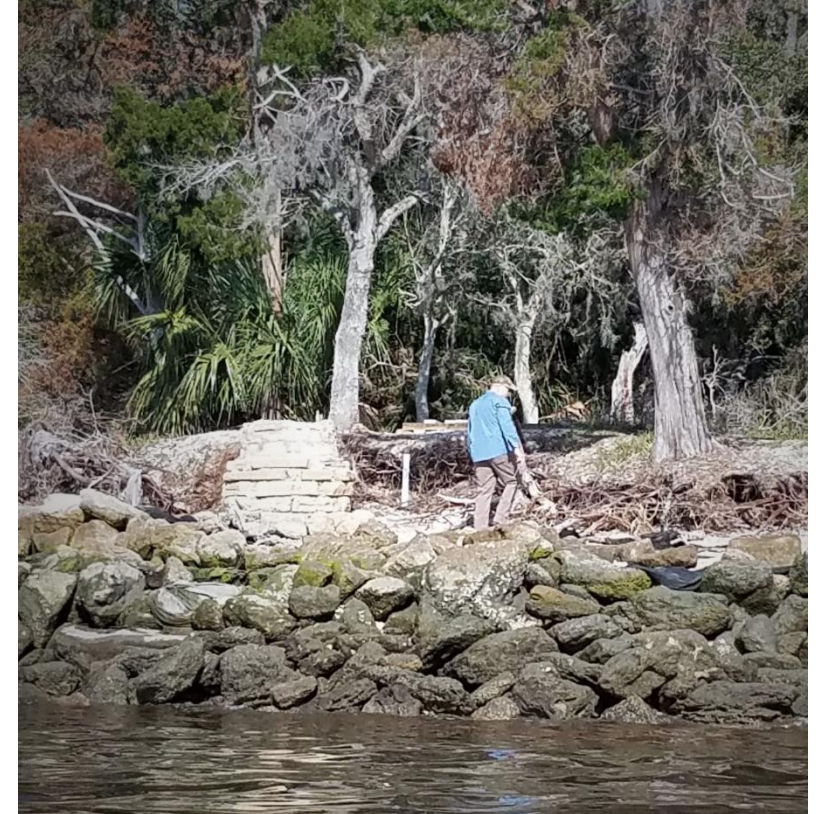
Audience: Planners in cities and counties of any size



Adaptation Planning Guidebook

TOPICS

- ☐ Establishing Context
- ☐ Vulnerability Assessment
- ☐ Adaptation Strategies
- ☐ Implementation of Adaptation Strategies
- ☐ Specialty Topics
 - Economic Value of Adaptation Planning
 - CRS and Adaptation
 - Historic and Cultural Resources
 - AAAs to Protect Natural Resources
- ☐ Funding Opportunities
- ☐ Example VA and Adaptation Plan



Steps to Create Adaptation Plans

CONTEXT

- Assemble a steering committee
- Set guiding principles and motivations
- Establish planning area and describe geographic context
- Define public outreach approach and opportunities for community participation

VULNERABILITY ASSESSMENT

- Conduct an exposure analysis
- Conduct a sensitivity analysis
- Assign focus areas

ADAPTATION STRATEGIES

- Assess adaptive capacities
- Prioritize adaptation needs
- Identify adaptation strategies
- Integrate into existing plans

IMPLEMENTATION STRATEGIES

- Assess implementation capabilities
- Create a schedule of activities, actions, and actors
- Monitor and evaluate



Figure 1. Communities can follow this roadmap of steps to create an adaptation plan.



Addressing Adaptation During Long-Term Recovery

2ND REVISED EDITION

What's new?

- ☐ Updated links and references
- ☐ Information about the 2015 “Peril of Flood” statute
- ☐ (Sec. 163.3178(2))
- ☐ More information about living shorelines
- ☐ Updated informational resources



Addressing Adaptation During Long-Term Recovery – 2nd Revised Ed.

- ☐ Understanding the Impacts of Sea Level Rise
- ☐ Capacity Assessment and Plan Integration
- ☐ Economic Development Strategies
- ☐ Local Mitigation Strategies
- ☐ Transportation Considerations
- ☐ Protection/Accommodation/Relocation-Retreat
- ☐ Pre- and Post-Disaster Implementation Considerations
- ☐ Decision-Making Triggers





Resilience Planning Grants

Promote community resilience planning

Compliance with “Peril of Flood” statute

Development of Adaptation Action Areas

Vulnerability Assessments, Adaptation Plans or Resilience Plans

Development of relevant decision support tools, and/or public outreach tools, products or programs that support community resilience planning efforts, including regional collaboration efforts

Monday, July 30, 2018	Announcement of RPG Posted
Friday, August 10, 2018	Questions with subject line of “RPG Questions” to be emailed to Angel.Baratta@FloridaDEP.gov by 4:00 PM ET
Friday, August 24, 2018	Answers to questions to be posted by 4:00 PM ET
Friday, September 7, 2018	Applications due to FRCP by 4:00 PM ET
Mid October 2018	Notices via email to all applicants on award status
Early December 2018	Contracts to be sent out to selected grantees.

<https://FloridaDEP.gov/resilience>

Florida Department of Environmental Protection

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SEARCH...

Florida Resilient Coastlines Program

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Florida Resilient Coastlines Program Quick Links

- Home
- Funding Opportunities
- Resilience Resources
- Get Involved
- Funded Projects
- All Florida Resilient Coastlines Program Content

The Florida Department of Environmental Protection is committed to marshalling resources to prepare Florida's coastal communities and habitats for the effects of climate change, especially rising sea levels. Through the Florida Resilient Coastlines Program, DEP continues its efforts to help ensure collaboration among Florida's coastal communities, to offer technical assistance and funding to coastal communities dealing with increasingly complex flooding, erosion, and habitat shifts.

FLORIDA RESILIENT COASTLINES PROGRAM





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Historic Preservation and Mitigation

- Bureau of Historic Preservation
 - Provide technical assistance for historic preservation projects and planning
 - Updating and expanding existing guidance related to disaster planning and recovery
- Compliance and Review Program
 - Review FEMA, FDEM, and other sources of federal or state disaster funding for potential impacts to historic and archaeological resources



Historic Preservation and Mitigation

- Historic Preservation Grant Program
 - Grants for the preservation and protection of state's historic and archaeological sites and properties
- Certified Local Government Program
 - Program links three levels of government – federal, state, local – into a preservation partnership for the identification, evaluation, and protection of historic and archaeological resources
- More info available here: www.dos.myflorida.com/historical/

Contact

Jason Aldridge, Compliance and Review Supervisor
Jason.Aldridge@dos.myflorida.com or 850-245-6333



FEPA Mitigation Working Group

- SharePoint page for FEPA Mitigation Working Group Members to collaborate
- Quarterly conference calls for the quarters without FEPA meetings
- 2 CFR, Part 200 procurement requirements apply to homeowner mitigation projects

Contacts

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NEMA Mitigation Committee

FDEM Director, Wes Maul, is now the Chairman of the National Emergency Management Association (NEMA) Mitigation Committee. He intends to promote Florida mitigation successes and best practices nationally.

“My vision for the committee going forward is to move the national policy discussion on mitigation in an innovative direction and to provide communities with the knowledge they need to successfully invest in mitigation on the front end and ensure that they are fully protected against disasters.” -Wes Maul



Silver Jackets

- Pursue updating charter
 - More specific, relevant, actionable
 - Identify agency program areas that will help to implement the FL Enhanced SHMP
- Silver Jackets Programmaticallly
 - Project specific activities
 - Disaster and post-disaster response
 - Resiliency actions for the future
- Timeline: signing of new charter by Spring 2019



FLASH Overview

THE FLORIDA DIVISION OF EMERGENCY MANAGEMENT



LMS Updates

- No plans being reviewed or revised at this time
- LMS Update Manual is available on our website:
<https://floridadisaster.org/dem/mitigation/local-mitigation-strategy/>



SHMPoints Newsletter

- Articles this quarter include:
 - FDEM Director Appointed Chair of NEMA Mitigation Committee
 - HMGP Irma Update
 - FEMA's Ideascale
 - Florida Resilient Coastlines Program
 - FDEM and BOAF Propose Building Code Amendment to Allow Public Restrooms Below BFE



Announcements

- Meeting notes and materials will be available online
- Next Mitigate FL Meeting
 - Tuesday, December 11, 2018
 - 1:00 pm – 2:00 pm
 - Kelley Training Room, FDEM



Questions or Comments?

For any additional questions, suggestions
or comments please contact:

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