



Pre- and Post-Disaster Recovery with SHIP PART 1



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AFFORDABLE HOUSING CATALYST PROGRAM

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Disaster Webinars Replace Workshop

Pre- and Post-Disaster Recovery with SHIP

April 15: Today is Part 1!

April 20 at 2 pm

<https://attendee.gotowebinar.com/register/5970069268672976907>

April 22 at 2 pm

<https://attendee.gotowebinar.com/register/3222575528325867787>

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Webinars Replace 'Prep for the Monitor' Workshop

Preparing for the SHIP Monitor

May 21 at 2 pm

<https://attendee.gotowebinar.com/register/2930146117267720203>

May 26 at 2 pm

<https://attendee.gotowebinar.com/register/6562858868160656651>

May 27 at 2 pm

<https://attendee.gotowebinar.com/register/3224951572953691403>

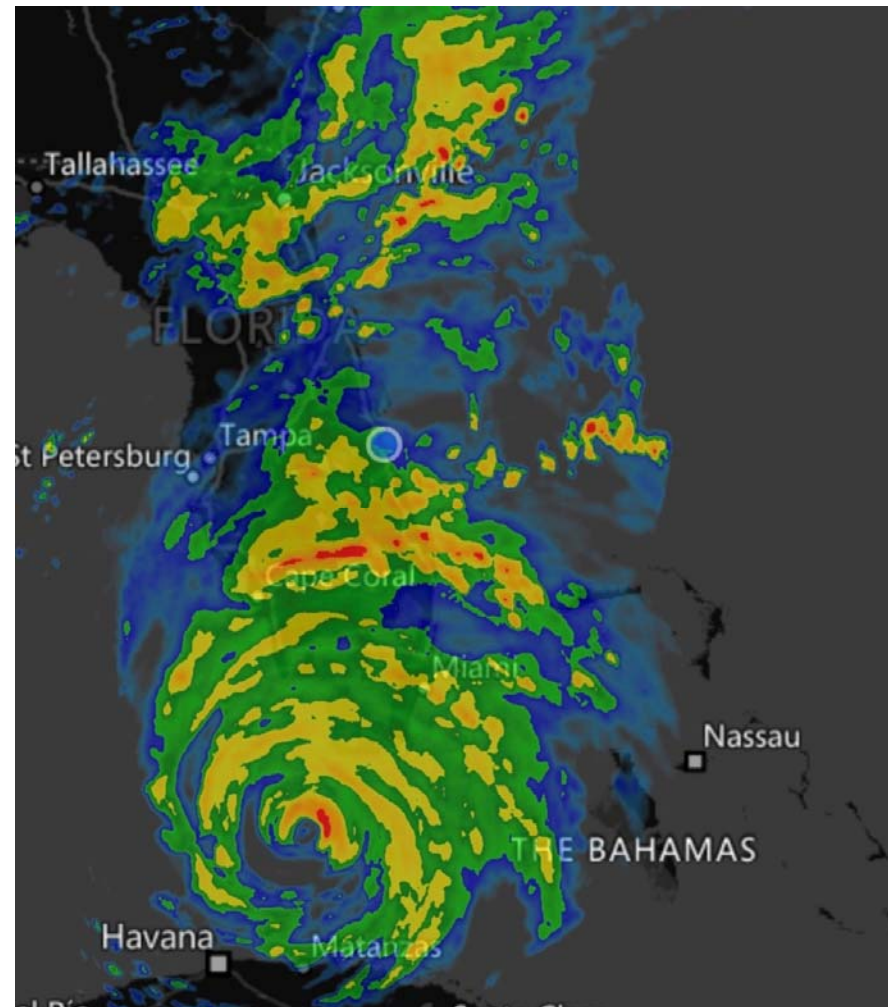
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A map of the Eastern United States, including parts of Florida, Georgia, South Carolina, North Carolina, and Virginia. Overlaid on the map is a color-coded intensity scale for a hurricane, with colors ranging from green (weaker) to red and purple (stronger). The strongest part of the storm, indicated by red and purple, is located in the Gulf of Mexico, just south of the Florida peninsula. The intensity decreases as the storm moves north and east towards the Atlantic coast.

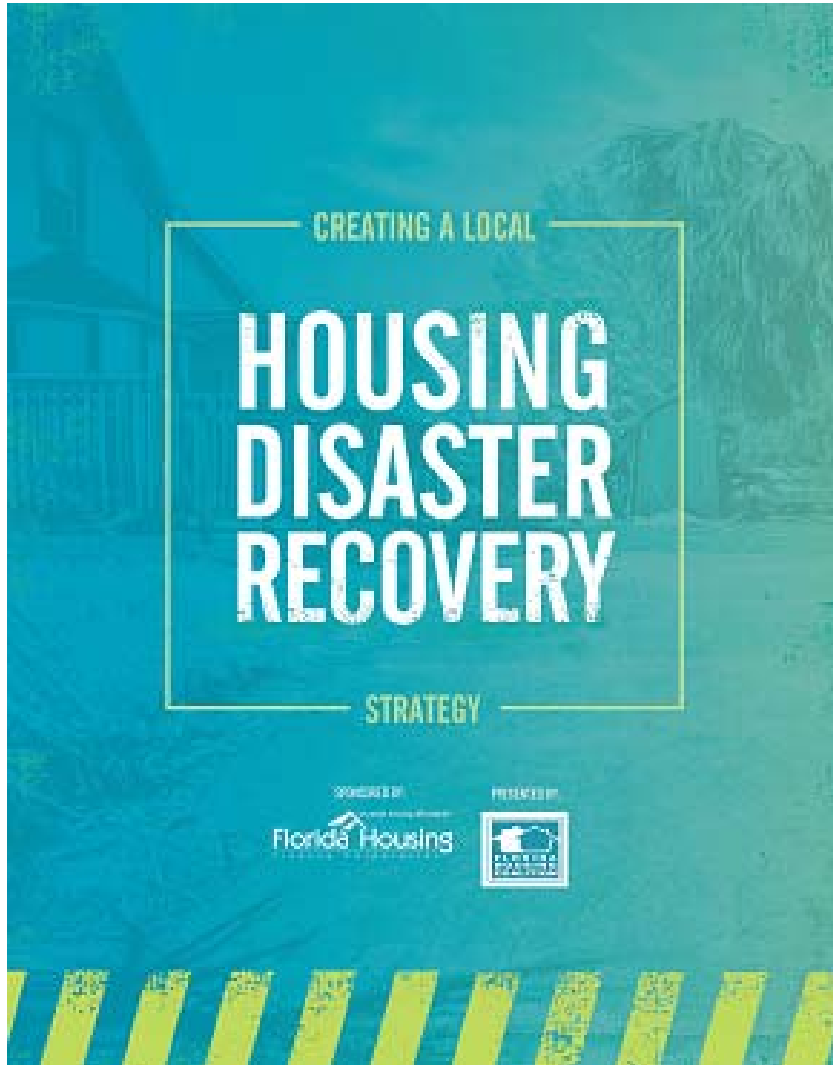
Join Us!
Weekly Hurricane Update
Webinars on Fridays 1:30- 2:30
Register at
<https://www.flhousing.org/events/>

Overview of Today's Webinar



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“Creating a Local Disaster Housing Strategy”

Download at
<https://www.flhousing.org/wp-content/uploads/2020/01/Creating-a-Local-Disaster-Housing-Strategy-2019-12-WEB.pdf>

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The Disaster Management Cycle



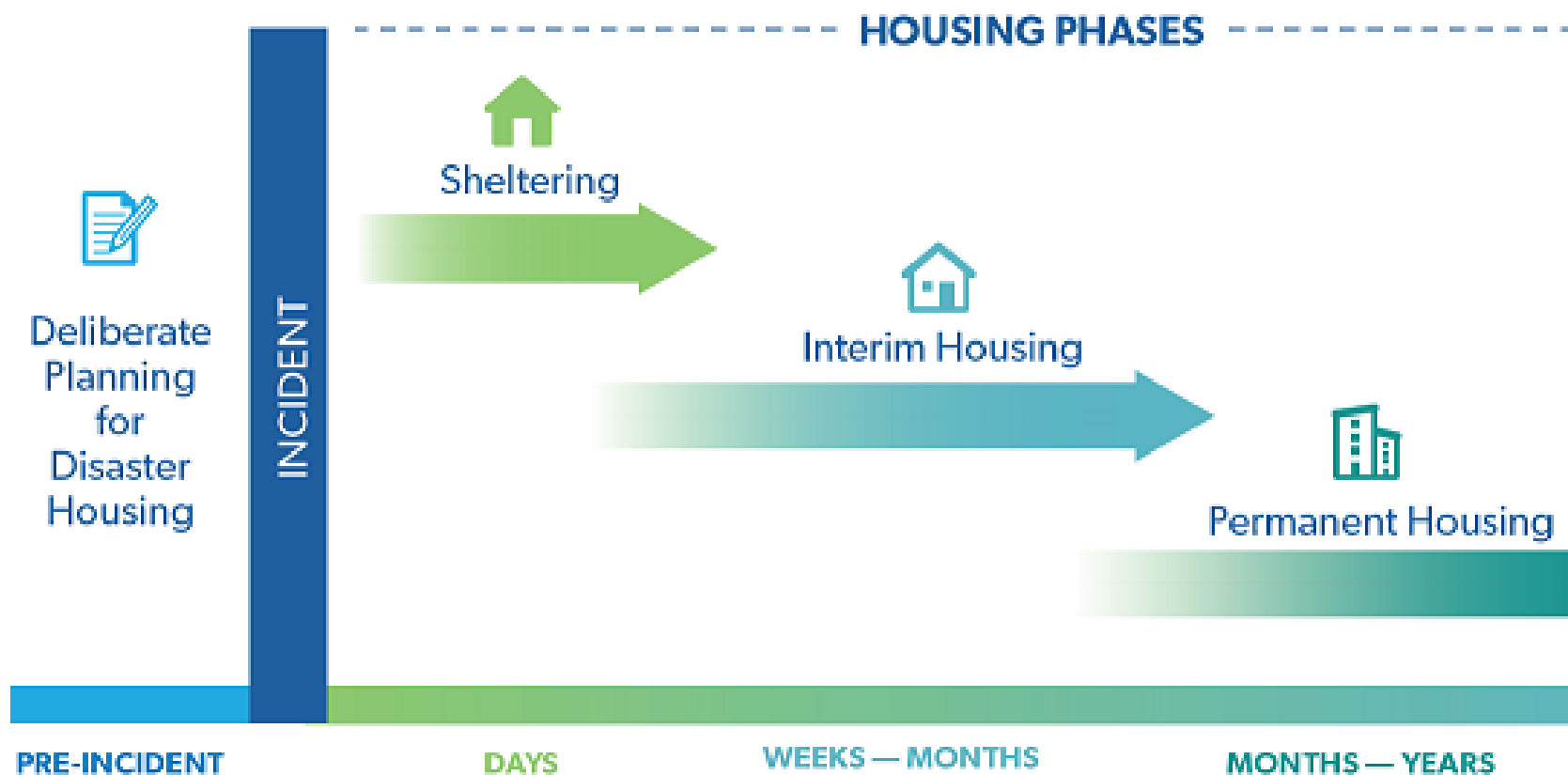
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Four Phases of Disaster Management

- **Planning:** pre-disaster recovery planning
- **Mitigation:** reduce future vulnerability, lessen the impact of disasters
- **Response:** actions that must be carried out when an emergency exists or is imminent
- **Recovery:** bring a community back to a new normal after disaster

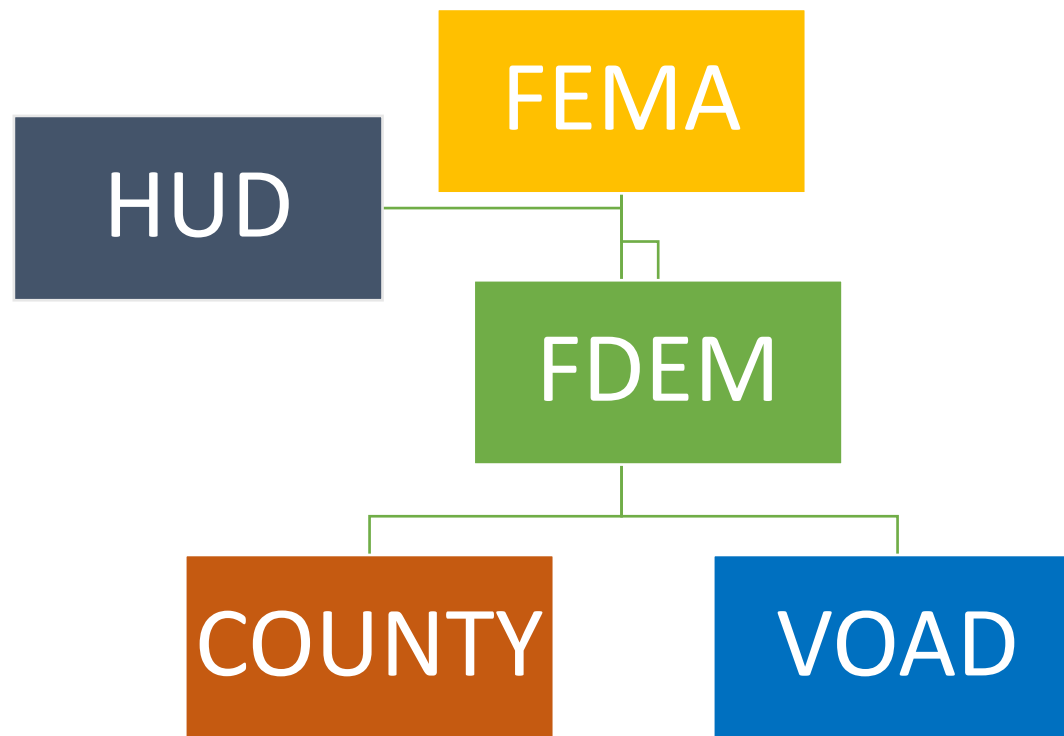
Housing Phases in the Disaster Management Framework



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Disaster Management Framework



Disaster Preparedness



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THE SIX STEPS TO PREPARING YOUR LOCAL DISASTER HOUSING RECOVERY STRATEGY



STEP ONE
Form the Collaborative Team



STEP TWO
Understand the Housing Situation



STEP THREE
Determine Housing Goals and Objectives



STEP FOUR
Housing Plan Development



STEP FIVE
Housing Plan Preparation, Review and Approval



STEP SIX
Housing Plan Implementation and Maintenance

Creating a Local Disaster Housing Strategy

- Framework: National Disaster Recovery Framework (NRDF)
FEMA's 2018-2022 Strategic Plan
- Federal- State- Local Role
- HOUSING IS LOCAL!
- EMERGENCY MANAGEMENT IS LOCAL!
- <https://www.floridadisaster.org/counties/>

FEMA SEVEN COMMUNITY LIFELINES IN THE NATIONAL RESPONSE FRAMEWORK



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Emergency Support Functions

- ESF #6: Mass Care, Emergency Assistance, Temporary Housing, and Human Services
- ESF #8: Public Health and Medical Services
- ESF #14: Long Term Community Recovery

EMERGENCY SUPPORT FUNCTION #6- MASS CARE, EMERGENCY ASSISTANCE, HOUSING AND HUMAN SERVICES



- Repairs
- Rental Assistance
- **Non-Congregate Shelter**
- Transportation
- Volunteer Agency Coordination
- Individual Assistance (IA)
- Disaster Case Management



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Crosswalk of HCD and EOC Structure, Collaborating Agencies and Housing Activities

TOPIC	HCD	EOC
Governmental Jurisdiction	Local: County and Municipal Government Community Redevelopment Areas Public Housing Authority Housing Finance Agency Homeless Continuum of Care Social Service Agencies	Local: County Emergency Operations and Hazard Management Other Public safety departments
	State: FHFC Finance Corporation Florida DEO Florida DCF	State: Florida Division of Emergency Management
	Federal: U.S. HUD U.S. Dept. of Agriculture	Federal: FEMA SBA

Crosswalk of HCD and EOC Structure, Collaborating Agencies and Housing Activities

TOPIC	HCD	EOC
Regulations and Authorities Laws, regulations and executive orders that impact housing assistance. *Note: Public meetings must abide by Florida's Sunshine Law. Meetings should also be accessible.	Local: Comprehensive Plan Zoning and Land Use Building Code Health Codes	State: Governors Declaration of Emergency Florida Comprehensive Emergency Management Plan
	State: Governors Declaration of Emergency State Housing Initiatives Partnership	
	Federal: Housing and Community Development Act Fair Housing Act USDA	Federal: Robert T. Stafford Disaster Relief and Emergency Assistance Act Post Katrina Emergency Management Reform Act

Crosswalk of HCD and EOC Structure, Collaborating Agencies and Housing Activities

TOPIC	HCD	EOC
Citizen and Stakeholder Engagement	Local: Long Term Recovery Groups Housing Assistance Committee (AHAC) Homeless Continuum of Care	Local: Emergency Operations Plan task force Mitigation Task Force
		State: Disaster Housing Task Force (DEM)
Disaster Related Housing Activities	Rental assistance Rapid rehousing Single family home repair Single family home construction Multifamily repair Multifamily construction Housing Counseling	Mass care shelter Disaster housing mission is to provide temporary housing assistance for disaster survivors Establish sites for temporary housing

FORM TEAM

Name, role, contact info, *meeting schedule*

- EOC- Mitigation, planning, response, recovery phases
- LTRO- Case management and assistance
- CoC AND MEMBERS
- HOUSING PROVIDERS
- HOUSING COUNSELORS
- REALTORS
- APARTMENT ASSOCIATION
- UNDERSTAND SPECIAL NEEDS EVACUATION PLANS



PARTNER GRID

DISASTER SERVICES AGENCIES

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Voluntary Organizations Active in Disasters (VOAD); partnership of faith-based and non-profit organizations



SHIP Administrator Disaster Preparedness Checklist Handout

- LHAP- Check Strategies
- MITIGATION- Ongoing
- PARTNER GRID
- CHECK ZONING & SITES FOR TEMPORARY HOUSING
- PLAN DAMAGE ASSESSMENT
- PREPARE MARKETING
- UNDERSTAND NFIP PROHIBITIONS
- UNDERSTAND FEDERAL PROCUREMENT
- UNDERSTAND SUBSTANTIAL DAMAGE AND FLOODPLAIN REGULATIONS
- BE AWARE OF WIND AND FLOOD INSURANCE PROGRAMS AND NFIP LINES

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SHIP ADMINISTRATOR CHECKLIST

LOCAL HOUSING ASSISTANCE PLAN:

Check Strategies

- Disaster Strategy
- Rapid Rehousing
- Rental Assistance
- Rental Rehabilitation
- Homeowner Rehabilitation



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CHECK ZONING AND BUILDING CODES-

- Emergency repairs
- Temporary housing
- Debris rules
- Temporary sites for Mobile Home and RV's



LOCATE SITES FOR RVS and MOBILE HOMES

- STAGING AREAS
- TEMPORARY HOUSING
- CHECK FEMA RV POLICY



CONSIDER:

- **NON-CONGREGATE SHELTERING NEEDS**
- CONTACT MOTELS, MULTIFAMILY PROPERTIES- EXCHANGE INFORMATION
- WHO WILL DO INITIAL DAMAGE ASSESSMENT?
- PREPARE MARKETING AND OUTREACH TO COMMUNICATE WITH SURVIVORS
- IDENTIFY TEMPORARY HOUSING



CONSIDER:

- **UNDERSTAND POST DISASTER DEMOLITION PROHIBITIONS-** Can negate FEMA funding if done prior to FEMA assessment
- **UNDERSTAND FEDERAL PROCUREMENT FOR FEMA AND CDBG-DR**
- **UNDERSTAND SUBSTANTIAL DAMAGE AND FLOODPLAIN REGULATIONS**

CONSIDER:

BE AWARE OF WIND AND FLOOD INSURANCE PROGRAMS AND NFIP LINES

- Knowledge of Increased Cost of Compliance (ICC)
- Liaison between County and insurance companies



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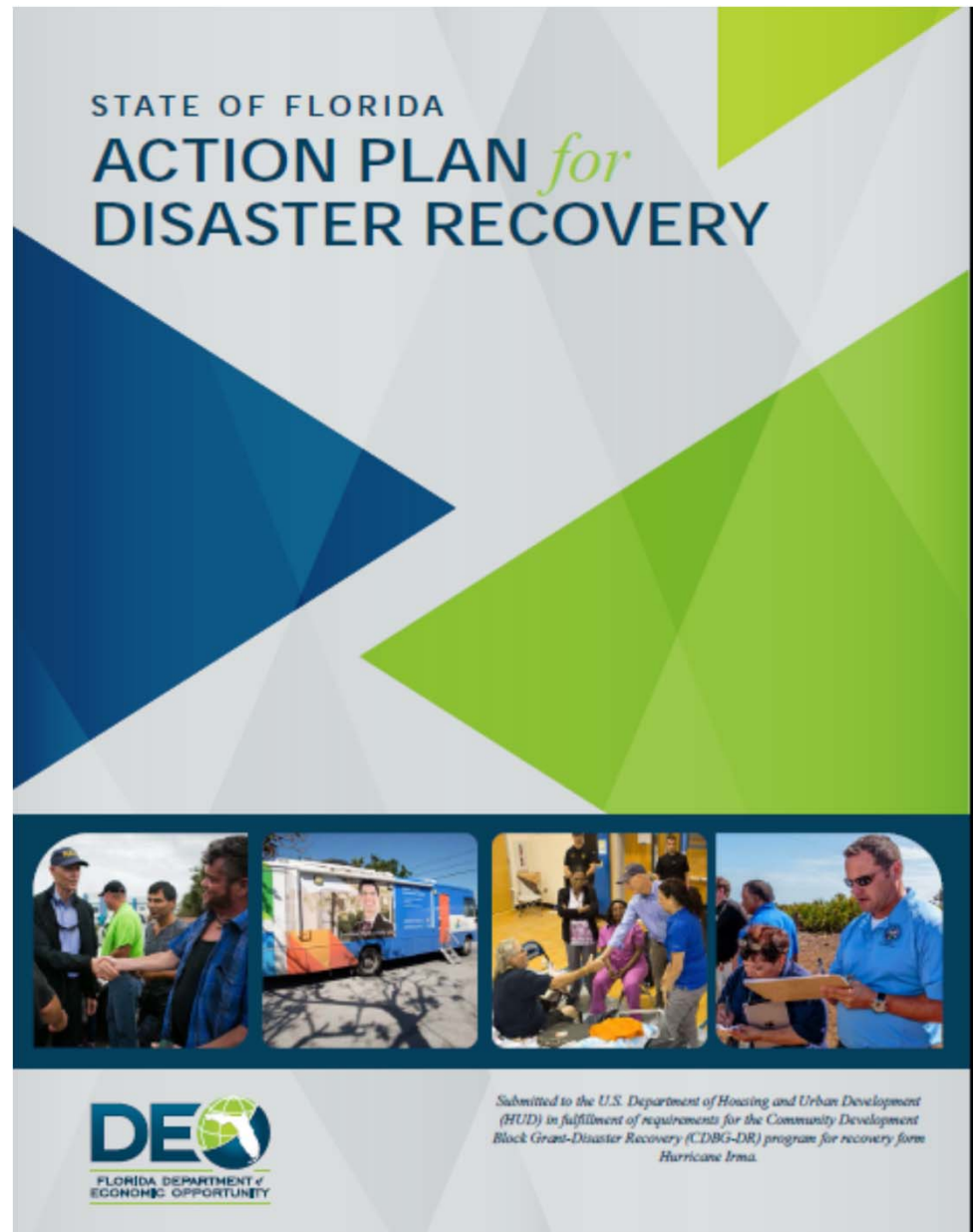
CDBG-DR ACTION PLANS

➔ Irma

➔ Michael

➔ Mitigation

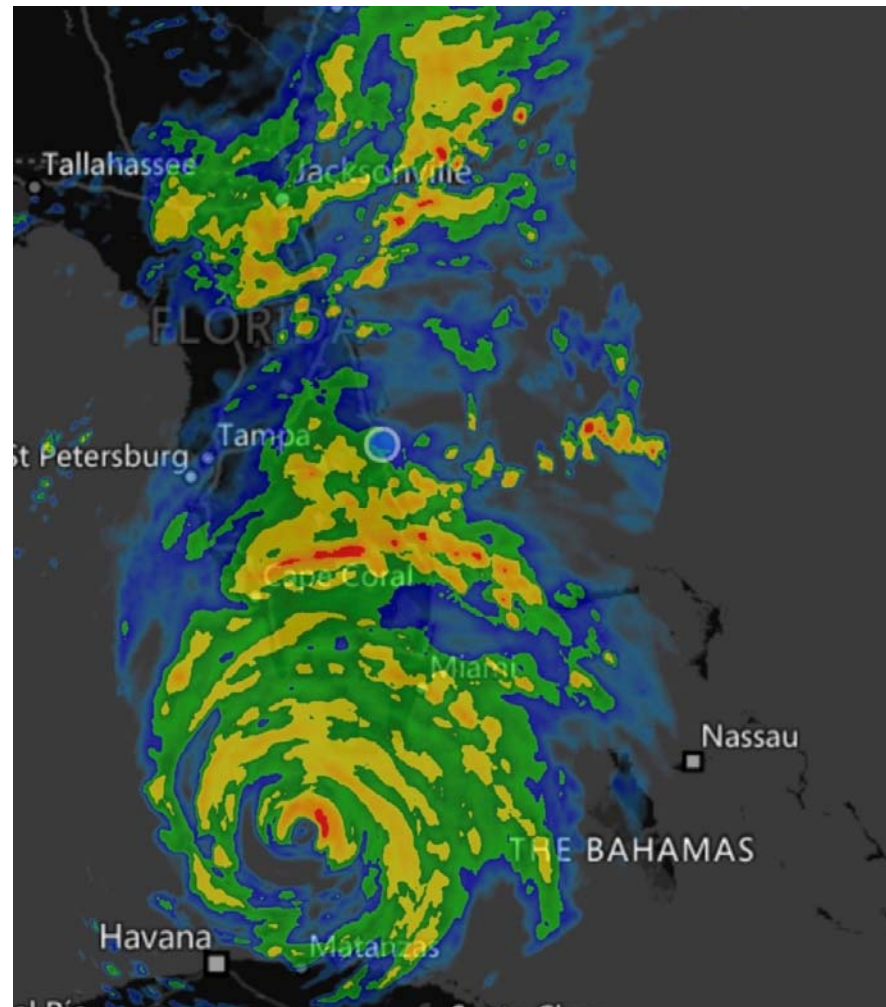
➔ CDBG-CV?



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Disaster Mitigation



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Disaster Mitigation Programs

- FIRST: Monitor SHIP rehab & new construction for code compliance
- NEXT: Mitigation involves Hardening, Resiliency, and Sustainability
- Seek funding beyond SHIP



HOUSING COALITION



What are the Mitigation Features of Your Housing Assistance Programs?



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Hurricane Loss Mitigation Program

Brianna Beynart
HLMP Program Manager
4/15/2020



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Program Overview

Originally created as an active response to the devastation brought by Hurricane Andrew, specifically to the insurance Market in the State of Florida.

Annual appropriation of \$10 million

\$3 million to retrofit existing facilities used as public hurricane shelters

\$2.8 million to inspect and improve tie-downs for mobile homes through the TCC Mobile Home Tie Down Program

\$700,000 to the Florida International University center dedicated to hurricane research

\$3.5 million to be used to improve the resiliency of residences through wind and flood mitigation grants.



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HLMP Resiliency Grant

Funded activities include retrofits, inspections, and construction or modification of building components designed to increase a structure's ability to withstand hurricane-force winds and flooding.

Each grant is \$194,000 and all applicable projects must be completed within the fiscal year in which it was contracted.

There are no LMS requirements associated with the funding.



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HLMP Resiliency Grant

Each property must have a wind inspection performed. Inspections should be done by a state certified wind mitigation inspector, a local building inspector, or a licensed state contractor.

The inspector will identify any previous wind mitigation improvements, wind mitigation deficiencies, and whether the residence can be effectively retrofitted.

All activities identified by the wind inspection must be complete. Additional activities may also be performed when using other funding sources.



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Home Selection

The HLMP is **NOT** a rehabilitation program.

Residential structures with extensive damages or delayed maintenance may qualify if the rehabilitation portion of the project is funded using other program funds such as SHIP, CDBG, CDBG-DR, etc.

However, if windows, doors, and a roof replacement are needed on a property receiving extensive rehabilitation, these portions of the project may be billed to HLMP when appropriate product codes and methods are used.



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Approved Construction Activities

Impact Rated Doors
Impact Rated Windows
Hurricane Shutters
Roof Replacement
Roof Straps and Clips
Skylights
Soffit and Fascia Replacement
Relocation of Window AC Units
Gable End Reinforcements
Tree Trimming



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Combining Funding

“Last year we did a mix of low and moderate income households and a few households that had incomes that were above the SHIP limits. Combining HLMP with SHIP allows a jurisdiction to stretch its limited SHIP funding a little further. With our SHIP program, the HLMP experience got me to look at storm resiliency a little closer, which makes for a better program no matter the source of the funding. Now, even if we do not use HLMP funding, our program includes more mitigation measures as part of the housing rehabilitation process than it did prior to getting involved with HLMP. By reducing insurance costs, we can increase housing affordability, and by increasing a home’s resistance to storms, we reduce the burden on our low and moderate income households, who usually suffer disproportionately in a natural disaster.”

-Vicki White

Housing and Community Development Manager
City of Bradenton



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Successful Projects



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Successful Projects



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Successful Projects



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RFP and Contact

The Request for Proposal is *usually published in March.
The performance period runs from July 1st (or upon contract execution)
through June 30th of the following year.

The FY21 RFP has been postponed due to the Covid-19 activation.

For more information or to be notified when the RFP is posted, please
email Brianna.Beynart@em.myflorida.com



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Wind Mitigation Features



Key components of protecting structural integrity:

- Roofing protections
- Protect Openings
- A continuous load path



Examples of Mitigation Features

- Roof/Wall/Foundation Connections
- Opening Protection
- Re-Roofing
- Elevation
- Relocation



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Example of Mitigation Features

Brace Bottom
Chord of the
Gable End



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When a garage door fails, it provides not only an entry point for water, but also allows for the wind to get under the roof and lift it off the structure.



Mitigation

water intrusion if shingles blow away. Secure all boards with an 8d ring shank nail, which includes grooves in the nail that provide a more secure grip. Use shingles with a high standard. The highest standard is currently for over 130 miles per hour winds and should be installed using the number of fasteners recommended by the manufacturer for high-wind areas.

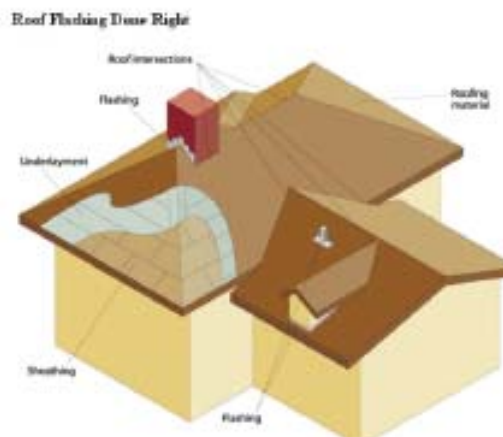
Roofing Repairs. A roof of a home that does not require roof replacement or any major roofing repairs may also be strengthened by re-nailing the sheathing using 8d ringed shank nails and providing a water barrier on the underside of the roof deck.

Exterior Doors. When completing the rehabilitation

with a bolt lock that should be 1" long to extend far into the frame and hold the door closed. French doors or double doors should be shuttered.

Flashing. The purpose of flashing on pitched roofs is to direct the flow of water that leaks into the intersection down and away from the structure's interior. Contractors must always lap flashing and other moisture barriers properly. Do not rely on sealant as a substitute for proper lapping. In addition, the following steps are recommended:

- Use fasteners that are compatible with the flashing material.
- Use flashing cement at joints to help secure flashing.
- At roof-to-wall intersections,



Disaster Mitigation for a Group Home

- ARC Group Homes in Marion County
- Two buildings renovated in 2010 & 2012 with CDBG funding
- 2019 Mitigation paid with SHIP Funds



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Provided Generator for Each Group Home



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Florida Residential Retrofit Guide

A resource from FDEM related to:

- Roofs
- Roofs and water intrusion
- Window, doors and shutters
- Walls
- Porches and attached structures
- Equipment and loose objects

<http://www.floridadisaster.org/hrg/>

What are the Mitigation Features of Your Housing Assistance Programs?



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- Protecting mechanical and electrical systems.

Wet Floodproofing: This approach allows unoccupied portions of a building to be flooded during a storm. It is available for older buildings that may not be designed to withstand the hydrostatic pressure that occurs with dry floodproofing (blocking water from entering the building). This method allows water to flow through a building in a controlled way. The space can then be dried after flood water has receded. Electrical panels, mechanical equipment, gas and electric meters and shut-offs should be relocated from flood-prone areas to locations above the DFE. If that is not possible, they should be protected in place.

Perimeter Floodproofing: With this approach, temporary physical barriers may prevent floodwaters from reaching the building and does not require modifications

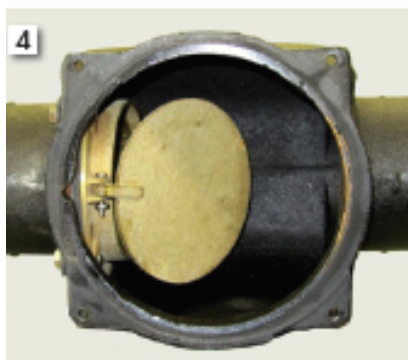
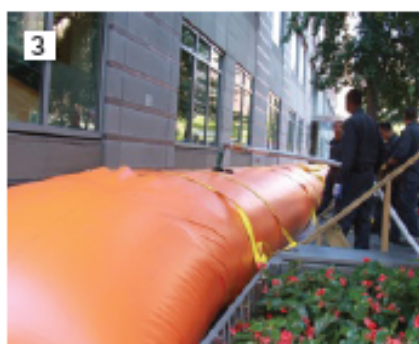
- Panelized systems installed into foundation slots- Temporary flood panels can be fitted into permanent slots.

Backwater Valves: Sewage backflow occurs when storm water backs up into a building basement or unoccupied area because of sewer line blockage or storm drain overflow due to flooding. A backwater valve is a relatively inexpensive retrofit that can prevent significant problems from sewer line failure by blocking reverse flow from entering the building through wastewater pipes.

Sump Pumps: These remove water which accumulates in the low points in a building. They are an effective and affordable way to reduce costly flood damages. Design sump pumps to handle moderate flooding but not catastrophic flooding such as a coastal storm surge.

Rental Housing Mitigation

Review FL
Rental Housing
Inundation Model
<https://vimeo.com/368867659>



1. Wet Floodproofing example
2. Sandbags used for perimeter floodproofing
3. Inflatable barrier, an example of a water-inflated tube system to reduce flooding
4. Backstop valve that prevents sewage backflow due to flooding
5. Sump pump drains water from buildings

Preparation for Multi-family Affordable Housing

- **Disaster Staffing Toolkit** from Enterprise Community Partners- Develop staffing plans to protect buildings, engage residents and continue operations after a disaster
- **Multifamily Retrofit Guide** - 19 practical strategies to make properties more resilient
- <http://www.enterprisecommunity.org/solutions-and-innovation/green-communities/tools-and-services/ready-to-respond>



Another Type of Mitigation- Relocation

SECTION SIX

Best Mitigation Practices

Best Practice Mitigation: Pasco County. One major disaster mitigation initiative in Pasco County was the relocation of an affordable housing development to avoid future disaster damage. Dade Oaks Apartments was built in 1977 on top of the low spot of a 160-acre drainage basin, which caused the apartments to suffer from chronic flooding. Under new leadership, the Pasco County Housing Authority relocated

the property to higher ground and fittingly re-named it Hilltop Landings. Maintaining the affordability of the units required several layers of financing, including state HOME funds and \$500,000 in SHIP funds. The housing authority not only relocated these units, they constructed them to have energy efficient features and appliances, front porches, and an old-time Southern feel.



This photo was taken during the beginning of Hilltop Landing's construction and includes the SHIP logo in recognition of the involvement of state funds





GLADYS COOK



MICHAEL CHANEY



AIDA ANDUJAR



KODY GLAZER

**FHC DISASTER RESILIENCY
AND RECOVERY TEAM
THANKS ALL OF OUR WEBINAR
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