Bill Johnson, RN, Director Division of Emergency Management

POST-DISASTER REDEVELOPMENT PLAN



What is a PDRP?

- Identifies post-disaster policies, operating strategies, and roles
- Guides decisions and coordinates post-disaster redevelopment and resiliency topics:
 - Business resumption
 - **Economic recovery**
 - Community improvement
 - Housing repair and reconstruction





What is a PDRP?

- PDRP topics:
 - Infrastructure restoration and mitigation
 - Sustainable land use
 - Environmental preservation
- Exploit opportunities to build back better and smarter through hazard mitigation
- Foundation for holistic recovery
- Strategic tool for building a more disaster resilient community and economy



Palm Beach County's PDRP

- First created in 1996
 - Rudimentary
 - Land use
 - Development
- 2006 revision
 - More comprehensive
- 2012 revision
 - Compliant with 2010 FL PDRP guidelines
 - National Disaster Recovery Framework
 - Added sea level rise



Countywide
Post Disaster Redevelopment Plan



Palm Beach County's PDRP

- 3 volumes
 - 1. Overall activation and implementation
 - 2. Detailed technical information
 - 3. Administrative support
- Designed for 3 most probable disaster risks:
 - 1 Intense hurricanes
 - Breach of the Herbert Hoover Dike
 - Large scale flooding events





Time-phased relationships

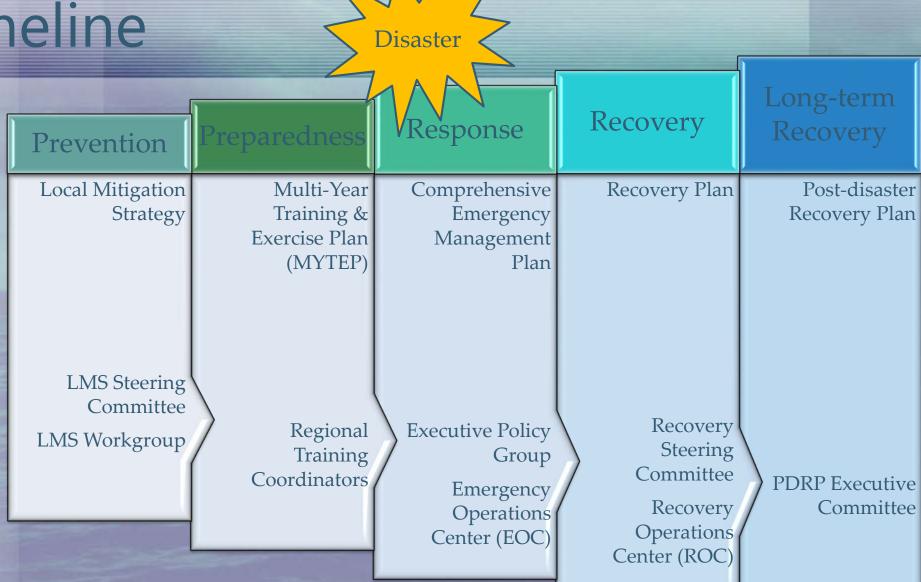
- Not a stand alone plan
- Compliments and supports
 - CEMP
 - LMS
 - Recovery Plan

PDRP & Disaster Management Cycle





Timeline







Executive Policy Group

County Administrator - Incident Commander Mayor, Board of County Commissioners Public Safety Dept. Director Palm Beach County Attorney

Unified Command

Emergency Management Director Palm Beach County Sheriff Fire Chief, Palm Beach County Fire-Rescue Palm Beach Co. Health Department Director

Liaison Officer **PBC** Administration

Safety Officer

Risk Management

Public Information Unit (ESF #14) Public Affairs

Emergency Information Unit (EIC) Victim & Justice Services

Information/ Technology Support LORIDE

Palm Beach County **EOC** Activation Organization February 2018

previous versions are obsole

Distribution

Branch

PBC Administration

County Staging

Area Unit

FD&O

Bulk Distribution

Unit

FD&O

POD Unit

Housing & Economic

Sustainability

Planning Section (ESF #5) **PBC Administration**

Section Budget

Infrastructure Branch Engineering & Public Works

Emergency Services Branch PBC Fire-Rescue

Operations Section

PBC Administration

Human Services Branch Community Services

Mass Care Unit (ESF #6) Community Services

Health & Medical Unit (ESF #8) FL DoH - PBC

(ESF #11)

Animal Services Unit (ESF #17)

TBD

Unmet Needs Unit

Logistics Section FD&O

Services Branch Human Resources

Human Resources

Volunteers & **Donations Unit** (ESF #15)

Human Resources

EOC Support Unit Consumer Affairs

United Way

Support Branch

FD&O

Communications Unit (ESF #2) FD&O/ESS

Fleet & Fuel Unit FD&O

Procurement Unit Purchasing

> **Facilities Unit** FD&O

Base Camp Unit FD&O

Situation Unit PSD/DEM

Documentation Unit PSD/DEM

Resources Unit PSD/DEM

Demobilization Unit PSD/DEM

Fusion Center Unit **PBSO**

Technical Specialist(s) Unit

Admin/Finance

Board of County Commissioners PBC Constitutional Officers

15th Judicial Circuit

PBC School Board

League of Cities

Legislative Affairs PBC Convention Bureau Medical Examiner Military Support/FLNG

Claims & Compensation Unit Risk Management

> Time Unit Human Resources

Cost Unit PSD/Finance Recovery Branch

Damage Assessment Unit PZ&B

Housing Unit Dept. of Housing & conomic Sustainability

Business & Industry Unit (ESF #18) Off. Small Business Ass

Transportation Unit (ESF #1) Palm Tran

Public Works Unit (ESF #3) Engineering & Public

Energy Unit (ESF #12) Engineering & Public Works

Debris Management Unit Engineering & Public

Search & Rescue Unit (ESF #9) PBC Fire-Rescue

Firefighting Unit

(ESF #4)

PBC Fire-Rescue

HAZMAT Unit (ESF #10) PBC Fire-Rescue

Law Enforcement Unit (ESF #16) PBSO

Emergency Operating Areas (EOA) Branch Parks & Rec

EOA Municipal Unit Parks & Red

EOAs #1 - #6

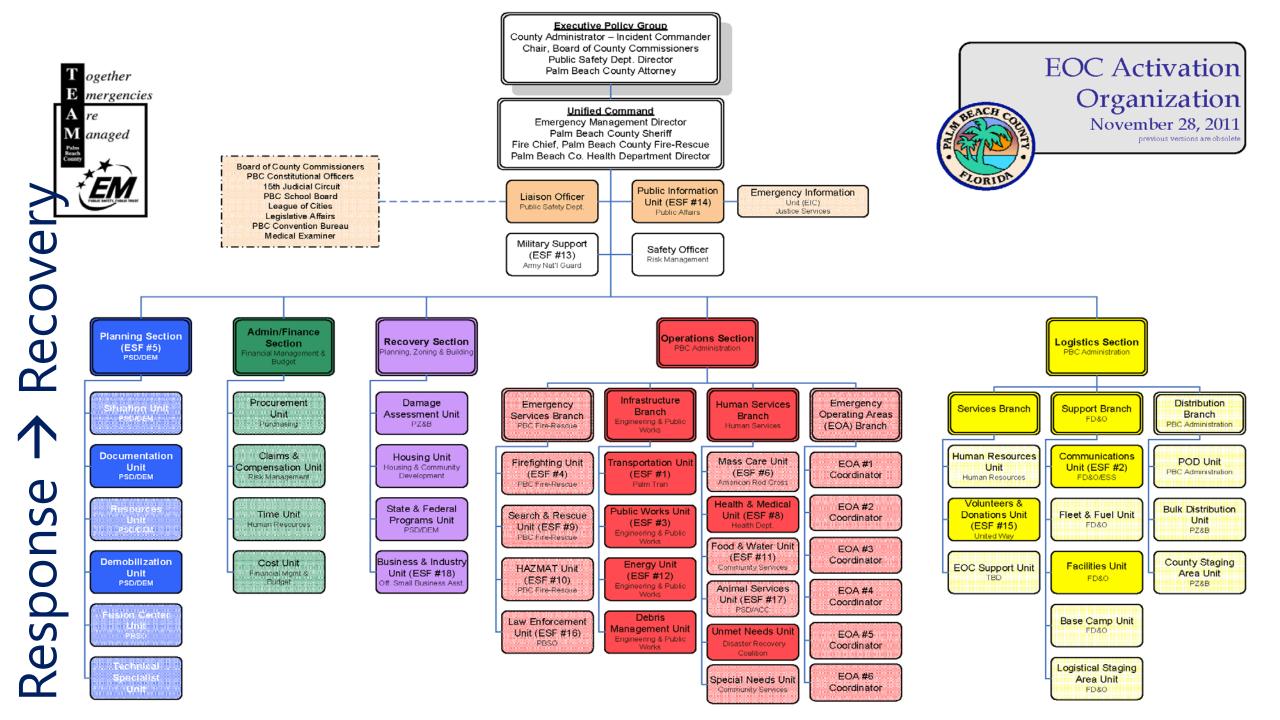
Food & Water Unit Community Services

PSD/ACC

pecial Needs Un



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Recovery

Recovery Steering Committee

Planning Section

Finance & Administration Section

Operations Section

Logistics Section

Public Education
And Information

Grants Administration

Case Management Infrastructure Restoration Recovery Operations
Center
And
Disaster Recovery

Recovery Documentation

Financial Administration

Unmet Needs Planning & Land Use

Volunteer & Donations Management

Center(s)

DA & Infrastructure Restoration Monitoring

Federal Reimbursement Coordination

Permanent Housing Debris Management

Health &

Medical Services

Disaster Housing (temporary & transitional)

After Action Reports & Corrective Actions

Mitigation Coordination

> Recovery Planning

Municipal Coordination

Economic Redevelopment

Facility Reconstruction Environmental

Preservation & Restoration



PDRP Executive Committee

County Department Representatives

Deputy County Administrator (Chair) Director, Planning Division Executive Director, Planning, Zoning, & Building Deputy Director, Facilities Development & Operations Administrator, Fire and Rescue Director, Building Division Director, Housing & Community Development Director, Department of Economic Sustainability Director, Housing & Finance Authority Director, Purchasing Director, Division of Emergency Management Director, Division of Human Services Director, Environmental Resource Management Director, Engineering & Public Utilities

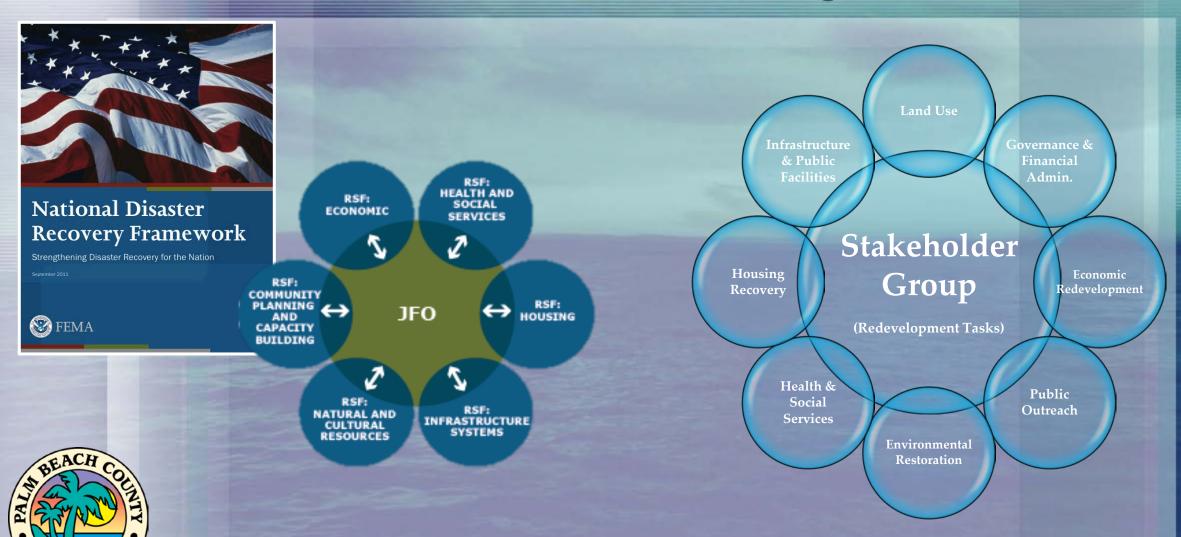
Director, Tourist Development Council **Hospital Administrators** Chief of Facilities, Palm Beach County School Board Chair, Palm Beach County Private-Public Partnership President, Business Development Board Executive Director, Palm Beach County League of Cities Director, Palm Beach Metropolitan Planning Organization Director Disaster Recovery Coalition







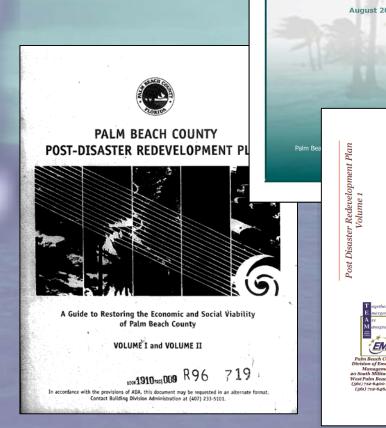
PDRP Technical Advisory Comm.



Palm Beach County's PDRP

The PDRP has not been activated since its development

 Recent events have not met the scope and magnitude criteria for activation







- SLR is a progressive hazard that can result in critical consequences
- Planning grant from Florida Department of Economic Opportunity
- Teamed with the Southeast Florida Regional Climate Change Compact







- PDRP acknowledges that
 Sea Level Rise poses:
 - High probability of continued Sea Level Rise
 - High impact potential
 - Significant consequences



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4.3% total land area affected56,000 acres





- 23 of 39 municipalities
 - Juno Beach
 - Palm Beach
 - Boynton Beach
 - Delray Beach







Sea Level Rise consequences

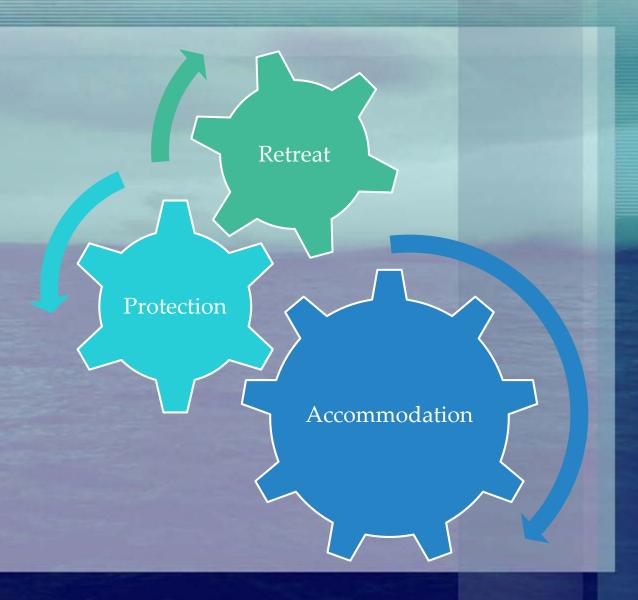
- Beach and dune erosion
- Progressive saltwater intrusion into critical fresh water sources
- Drainage system impacts
- Insurance availability





Sea Level Rise Action Plan

- Retreat
- Protection
- Accommodation





Sea Level Rise Action Plan

- Adapt the Comprehensive Plan to consider coastal management
 - Reduce coastal land use densities

- Evaluate the need for Adaption Action Areas
 - Creation of conservation areas









Sea Level Rise Action Plan

- Implement shoreline stabilization strategies
- Develop Water Management Plan to incorporate storm water improvements
- Post-disaster, reprioritize land acquisitions to support adaptation strategies





- Palm Beach County works to address the effects of Sea Level Rise:
 - Beach renourishment
 - Local flooding
 - Water management



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Beach renourishment

 Major beach renourishment projects funded by Palm Beach County ERM and the Army Corps of Engineers







Local Mitigation Strategy

- LMS Project Prioritization List (PPL)
 - 83 total projects
 - Top six (6) are flood mitigation projects
 - \$3.3 million
 - 60% of all projects address local flood mitigation
 - Nine (9) projects specifically address Sea Level Rise



Local Mitigation Strategy 2015











Palm Beach County Public Safety Department Division of Emergency Management 20 South Military Trail West Palm Beach, FL 33415 561-712-6400



Local Mitigation Strategy

HMGP projects

- Hurricane Matthew → \$425,000
 - Indian Trails Improvement District -\$400,000
 - Palm Springs \$57,000
- Hurricane Irma \rightarrow \$15.7 million
 - Projects yet to be funded by FEMA



Local Mitigation Strategy 2015











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LMS/SLR projects

- Boynton Beach
 - Storm water drainage
- Delray Beach
 - Marine Way
 - Thomas Street
 - Basin Street
- West Palm Beach
 - Lift stations
 - Storm sewer retrofits







LMS/SLR projects

- Lake Worth
 - Wellesley Drive
 - Holy Cross Lane
 - 19th Avenue, North
 - 17th Avenue, South

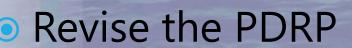


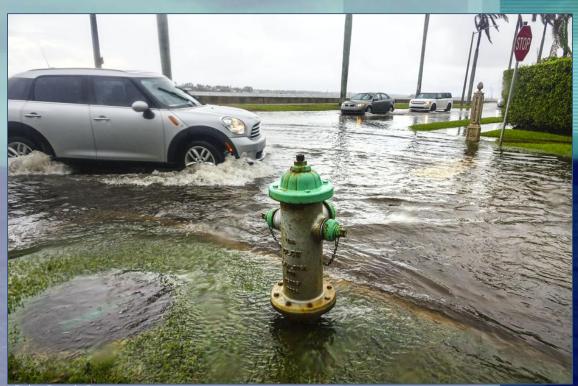




Moving forward...

 Post-disaster, reprioritization to support adaptation strategies





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Moving forward...

National Flood Insurance Program's (NFIP) **Community Rating** System (CRS)





Jog Road, January 10, 2014



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