

# **Hazard Mitigation Assistance**

**Casey Tingle**

**Assistant Deputy Director, Hazard Mitigation**

**Governor's Office of Homeland Security and  
Emergency Preparedness**

**INTRODUCTION  
TO  
HAZARD MITIGATION**

## Hazard Mitigation

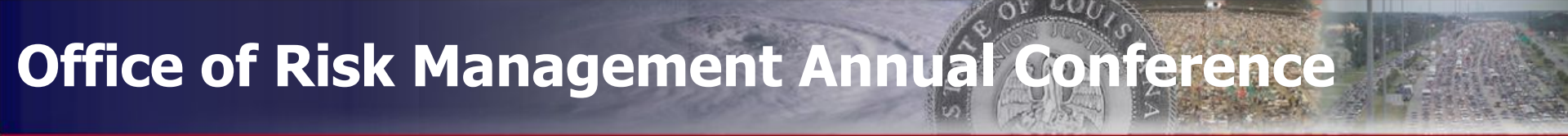


## Hazard Mitigation – FEMA Definition

Hazard Mitigation is any ***action*** taken to reduce or eliminate long term ***risk*** to ***people*** and ***property*** from ***natural*** disasters.

## Hazard Mitigation – Definition

- Hazards – Which ones?
  - Natural
  - Examples
- Mitigation – What is it?
  - Action
  - Reduce risk
  - Life and property

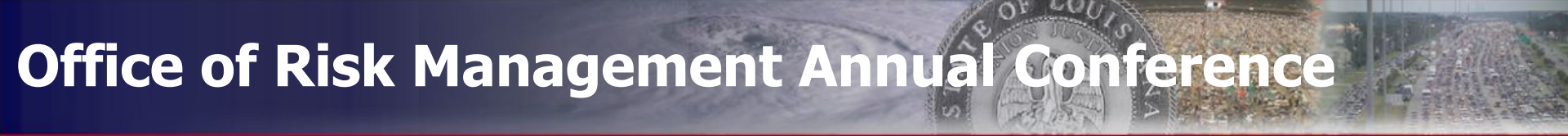


# Hazard Mitigation – Grant Programs

- Hazard Mitigation Grant Program (HMGP or 404)
- Pre-Disaster Mitigation (PDM)
- Flood Mitigation Assistance (FMA)
- Public Assistance Hazard Mitigation (406)

## Hazard Mitigation – HMGP

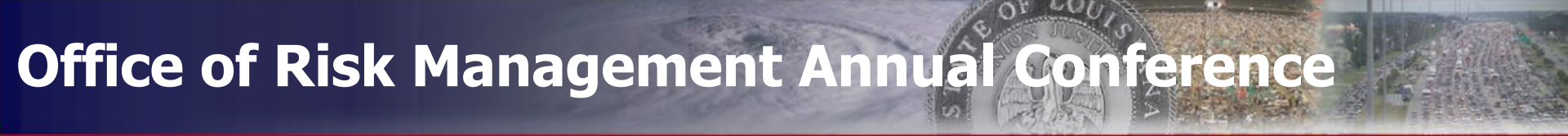
- Also referred to as 404 Mitigation
- Timing: Post-disaster
- Funding: Capped funding based on other Stafford Act costs
- Where: Funding not limited to damaged facilities or geographic areas
- What: Multi-hazard projects
- Match: Typically 25%



## Hazard Mitigation – PDM

- Timing: Annual competitive application process
- Funding: Appropriation with funding priorities
- Where: Funding not limited to damaged facilities or geographic areas
- What: Multi-hazard projects
- Match: Typically 25%



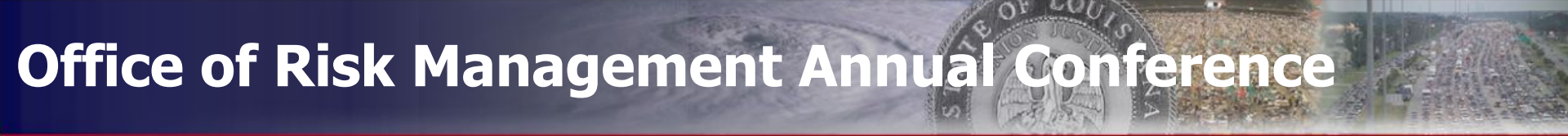


## Hazard Mitigation – FMA

- Timing: Annual competitive application process
- Funding: Appropriation of National Flood Insurance Program (NFIP) with funding priorities
- Where: Funding not limited to damaged facilities or geographic areas
- What: Flood reduction projects
- Match: Varies from 0%-25%

## Hazard Mitigation – PA 406

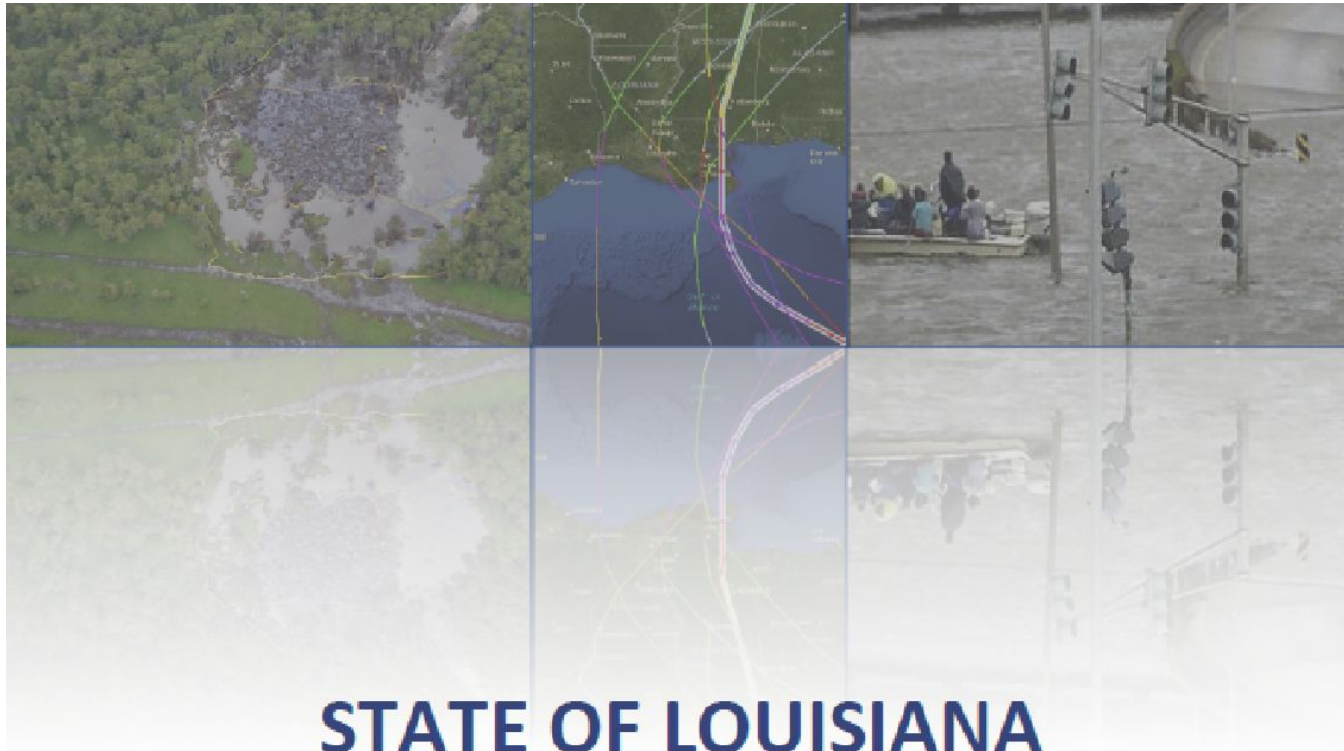
- Timing: Post-disaster
- Funding: Based on eligible repair costs
- Where: Funding is limited to damaged facilities
- What: Multi-hazards
- Match: Same as match associated with PA repair costs - typically 25%



## Hazard Mitigation – Planning

- Types: State level and Local/Multi-jurisdictional level
- FEMA review and approves
- Entity or entities are required to adopt
- Required for hazard mitigation funding

## Hazard Mitigation – State Plan



### STATE OF LOUISIANA HAZARD MITIGATION PLAN

2014 UPDATE

## Hazard Mitigation – State Plan

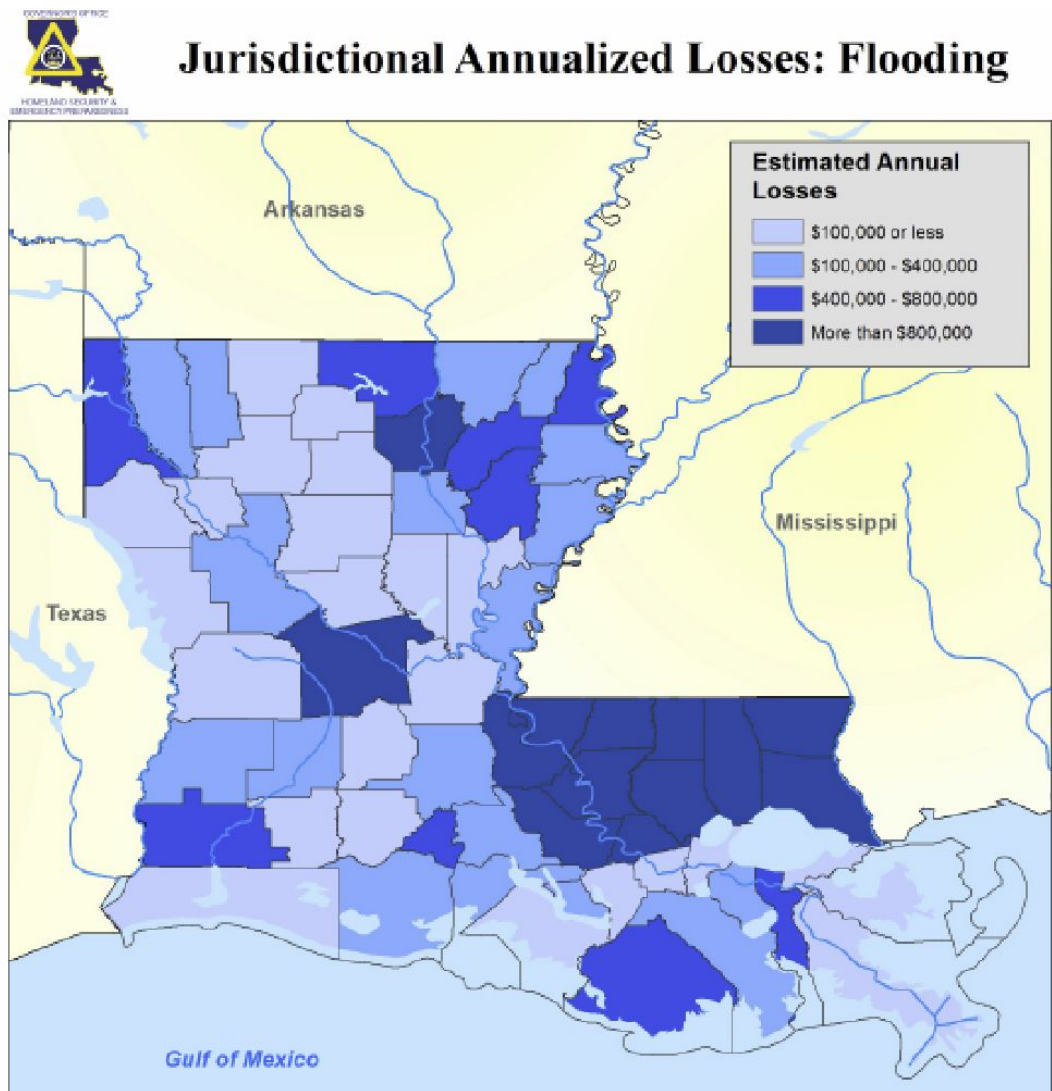
- Updated in April 2014
- Innovative risk assessment
- Risk assessment for Historic Properties
- <http://getagameplan.org/mitigateplanupdate.htm>

## Hazard Mitigation – 2014 Committee

- State agencies
- Parish and local government officials
- Universities
- Floodplain officials
- Regional planning groups



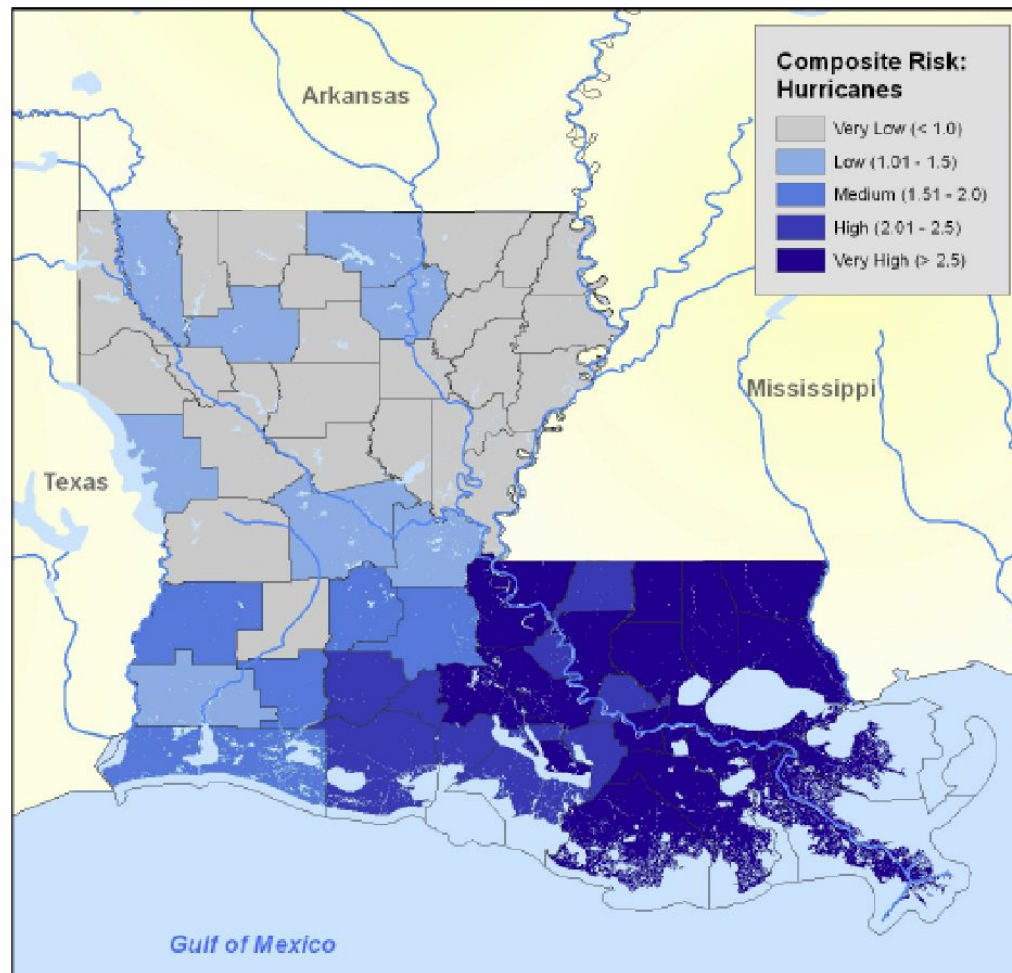
# Hazard Mitigation – State Plan



## Hazard Mitigation – State Plan



### Jurisdictional Vulnerability: Hurricane Composite Risk

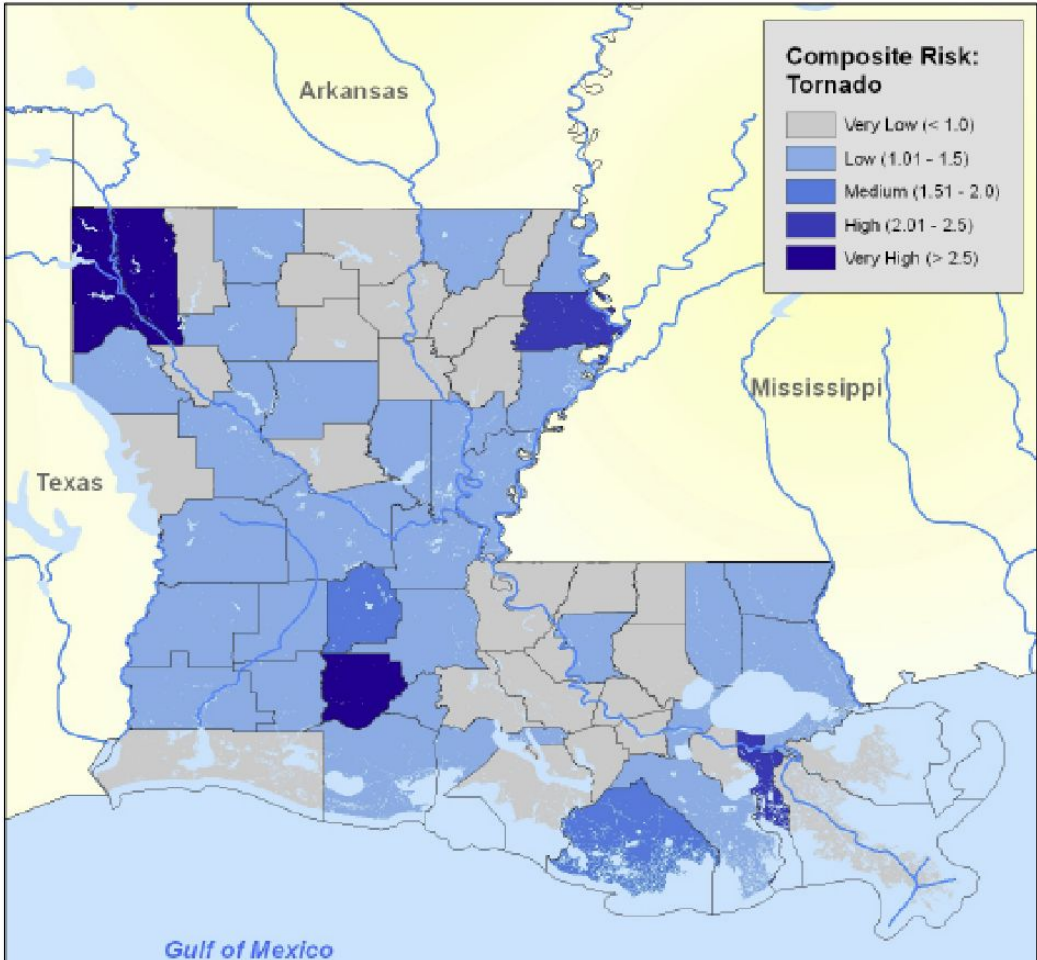


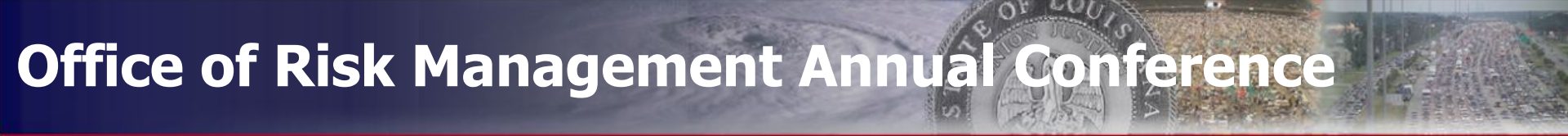


# Hazard Mitigation – State Plan

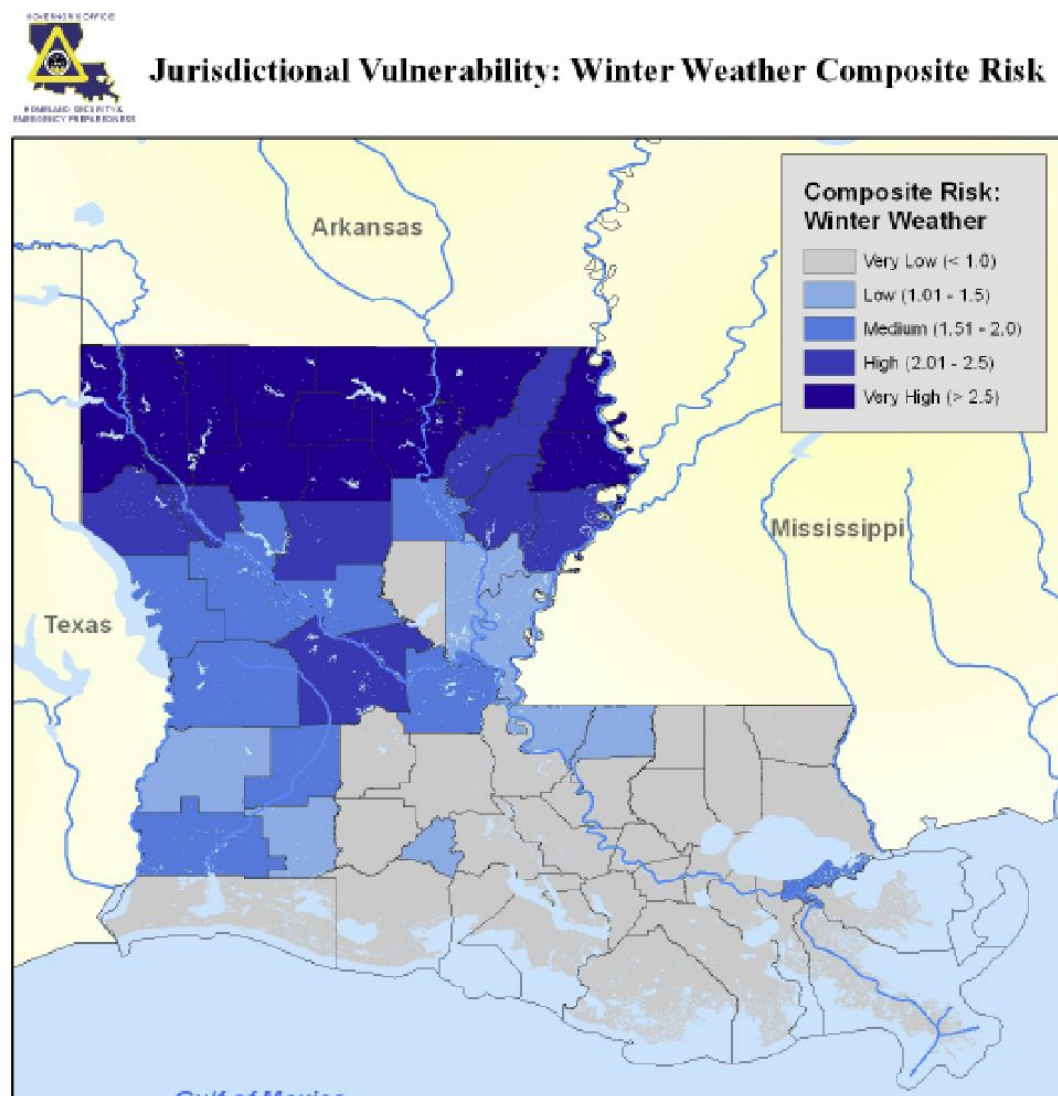


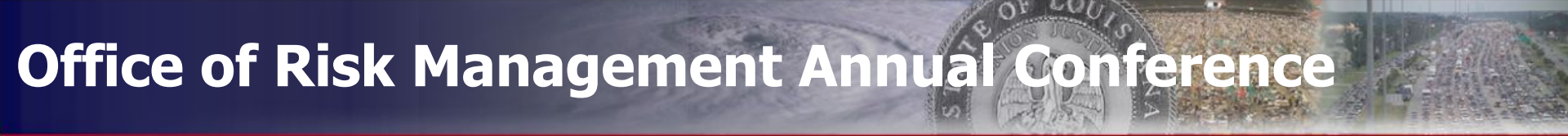
## Jurisdictional Vulnerability: Tornado Composite Risk





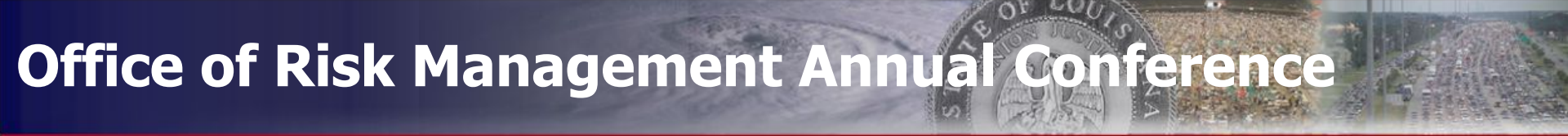
## Hazard Mitigation – State Plan





## Hazard Mitigation – 2019 Plan Timeline

- Late 2015-Summer 2016 – Gathering key stakeholders
- Summer 2016 – Risk Assessment Begins
- February 2017 – Kickoff Meeting
- May 2017 – Risk Assessment Meeting
- November 2017 – Mitigation Strategy Meeting
- January 2018 – Draft Plan Presentation Meeting



## Hazard Mitigation – 2019 Plan Update

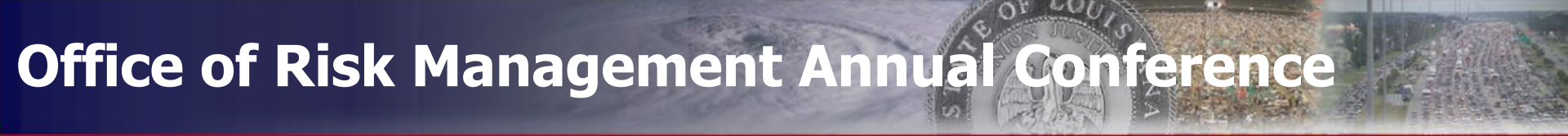
- Who else can or should participate?
  - Road/bridge infrastructure
  - Levee districts
  - Cross-section of staff in agencies
- Involvement of higher education institutions
- Project underway to evaluate and quantify existing mitigation projects

## **HAZARD MITIGATION GRANT PROGRAM**

## Hazard Mitigation – Eligibility

- Plan requirement
- Project must identify and solve the problem
- Participation is voluntary
- No adverse impacts
- Cost-beneficial





## Hazard Mitigation – Benefit Cost Ratio

- Benefits: Avoided losses over the project's useful life
  - Compares pre-mitigation and post-mitigation scenarios
  - Structure or content damages
  - Loss of function
  - Loss of life
- Costs: Total costs over life of project
  - Includes maintenance costs and all funding sources
- Benefits must equal or exceed costs

## HMGP application process





# HMGP application process

## DISASTER EVENT

### Step 1

- State **notifies** potential Applicants of the availability of funds.
- Applicants submit *Letters of Intent* (LOIs)/***Request for Assistance*** to the State.



## HMGP application process

### Step 2

- Applicants submit **projects** to the State - Application cycle closes.



## HMGP application process

### Step 3

- State begins **review** of submitted applications, which includes:
  - Program **eligibility**
  - **Budget**
  - Environmental **coordination/compliance**
  - **BCA**
  - **Metrics + milestones**



## HMGP application process

### Step 4

- State **submits** applications to FEMA.
- FEMA reviews the application; either sends an **RFI**, **approves** or **denies**.



## HMGP application process

### Step 5

- If the application is approved by FEMA,
  - The State informs the Applicant of **approval**.
  - Sets up a **kickoff meeting**.
  - Begins the **project/grant management process**.



## Hazard Mitigation – Elevation Project





## Hazard Mitigation – Elevation Project



## Hazard Mitigation – Elevation Project





## Hazard Mitigation – Acquisition Project



## Hazard Mitigation – Drainage Project

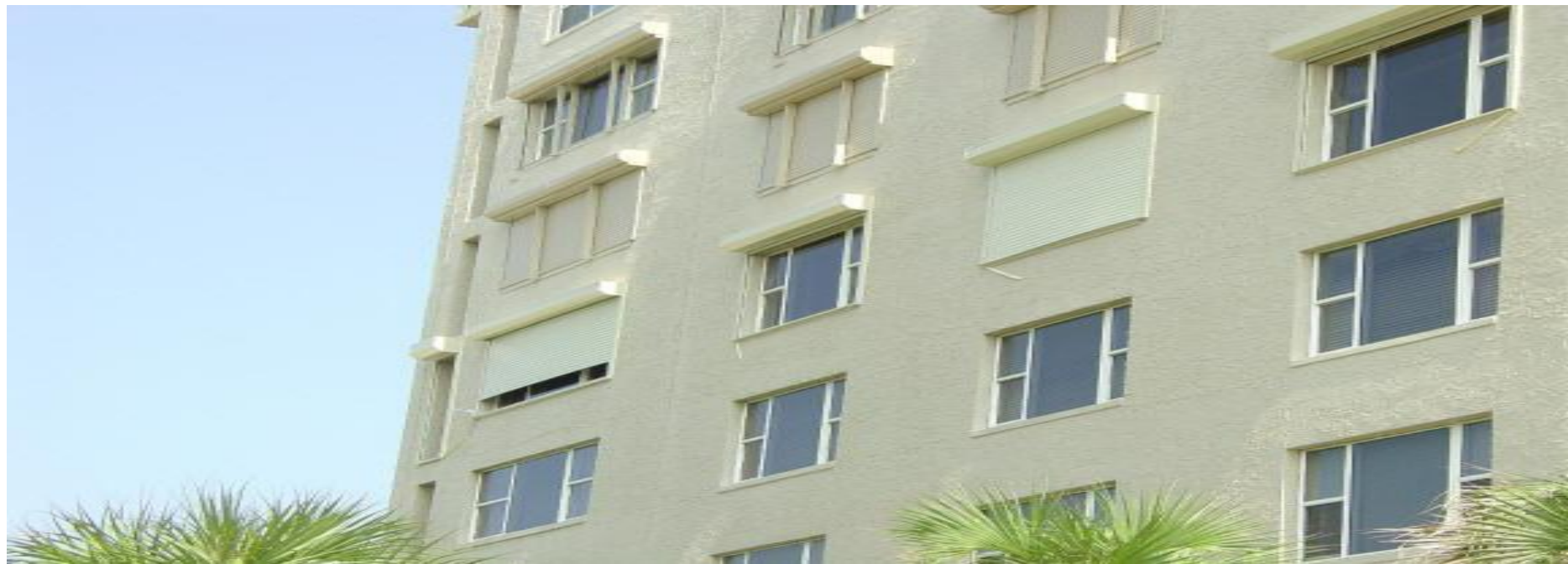




## Hazard Mitigation – Drainage Project



## Hazard Mitigation – Wind Retrofit Project



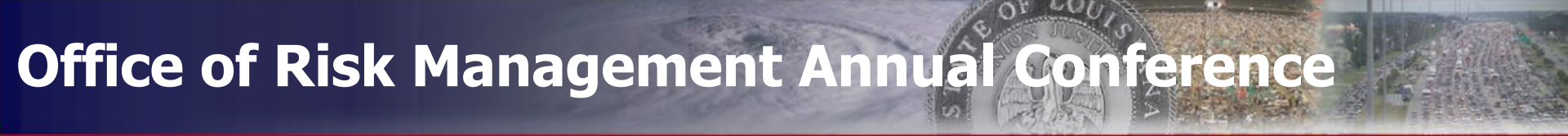
## Hazard Mitigation – Saferoom Project



## Hazard Mitigation – Activity Overview

Project Type	# of Projects	# of Sites	Allocated Amount
Elevation/Acquisition/Reconstruction/Floodproofing	197	10,794	\$1,141,951,637
Localized Drainage Improvement/Road Elevation/Soil Stabilization	151	340	\$401,830,669
Mitigation Planning	131	-	\$176,208,837
Wind Retrofit/Saferoom	164	667	\$143,663,117
Generators - 5%	6	863	\$102,067,701
Community Education Outreach/Code Enforcement - 5%	7	-	\$42,779,706
State Management Cost	9	9	\$132,772,349
<b>Total</b>	<b>665</b>	<b>12,673</b>	<b>2,141,274,015</b>





# Office of Risk Management Annual Conference

## Hazard Mitigation – Funding Overview

Grant	Name	Lock-In	Obligated	Unobligated	Reimbursed
DR-1603	Hurricane Katrina	\$1,722,818,666	\$1,397,350,829	\$325,467,837	\$1,127,503,987
DR-1607	Hurricane Rita	\$137,903,000	\$112,260,809	\$25,642,191	\$91,266,443
DR-1786	Hurricane Gustav	\$225,071,189	\$109,636,653	\$115,434,536	\$33,956,408
DR-1792	Hurricane Ike	\$54,014,258	\$14,185,388	\$39,828,870	\$2,877,157
DR-1863	Severe Storms	\$895,384	\$580,841	\$314,543	\$3,205
DR-4015	Flooding	\$2,026,125	\$1,005,744	\$1,020,381	\$66,034
DR-4041	Tropical Storm Lee	\$900,000	\$887,487	\$12,513	\$1,026
DR-4080	Hurricane Isaac	\$66,975,168	\$41,227,410	\$25,747,758	\$3,583,492
DR-4102	Severe Storms	\$456,668	\$22,331	\$434,337	\$426
		\$2,211,060,458	\$1,677,157,492	\$533,902,966	\$1,259,258,177

**Casey Tingle**

**Assistant Deputy Director, Hazard Mitigation  
Governor's Office of Homeland Security and  
Emergency Preparedness**

**[casey.tingle@la.gov](mailto:casey.tingle@la.gov)**

**225-389-2403**