

Presentation to the Tulane Engineering Forum

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Overview

National Response Plan (NRP)

National Incident Management System (NIMS)

NIMS utilizes the Incident Command System (ICS) as the standard for emergency management across the country.

State Emergency Operations Plan (EOP)

State Unified Command and State Emergency Operations Center (EOC) interfaces with the Parish EOCs

Parish EOP

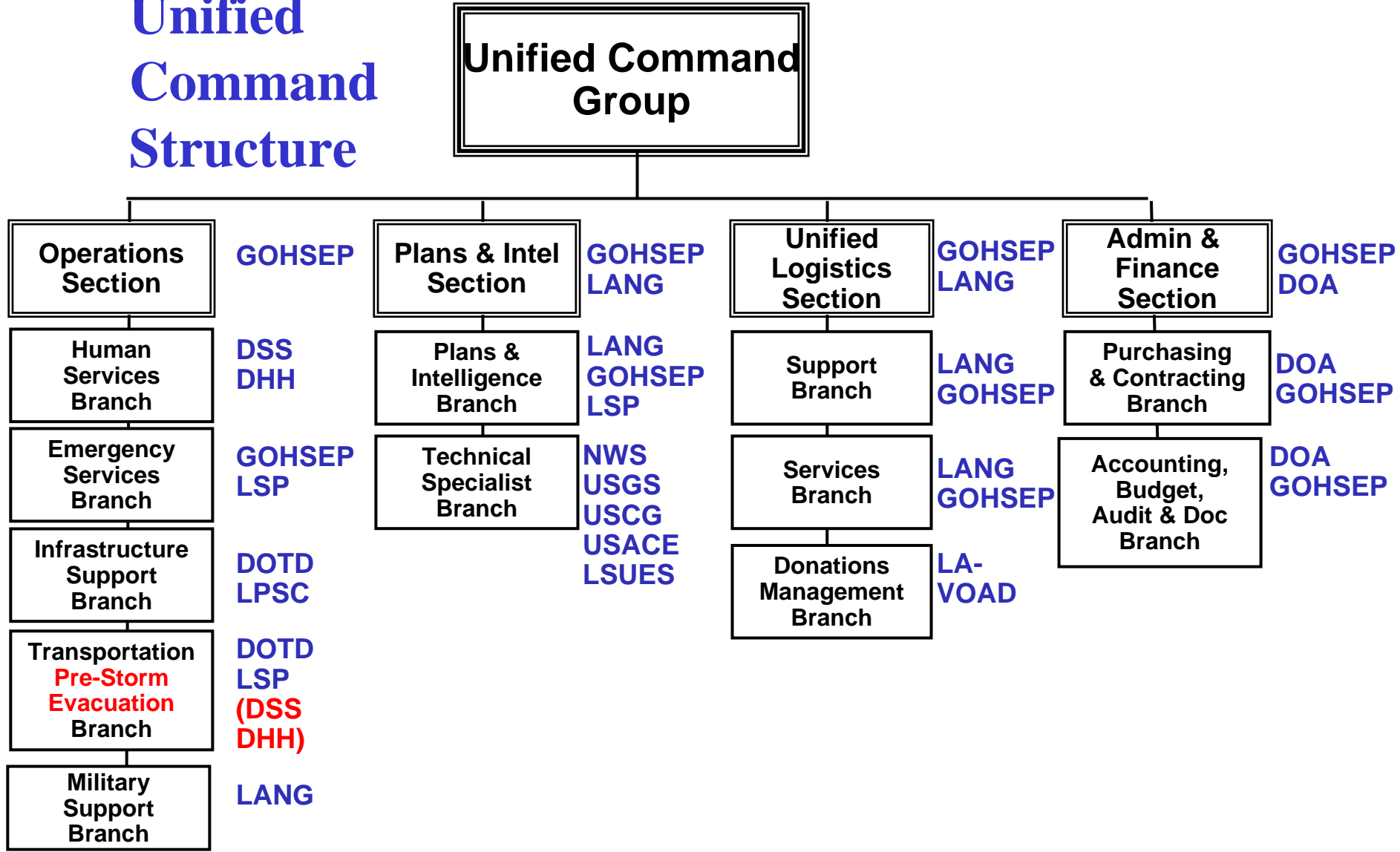
Parish Unified Command

Parish EOCs and Parish Unified Command interface with local Incident Commands

Unified Command

Unified Command is a team effort process, allowing all agencies with responsibility for an incident, either geographical or functional, to establish a common set of incident objectives and strategies that all can subscribe to. This is accomplished without losing or abdicating agency authority, responsibility, or accountability.

Unified Command Structure



Emergency Support Functions and Responsibility Chart	ESF #1 – Transportation	ESF #2 – Communications	ESF #3 – Public Works and Engineering	ESF #4 – Firefighting	ESF #5 – Emergency management	ESF #6 – Mass Care, Housing, and Human Services	ESF #7 – Resources Support	ESF #8 – Public Health and Medical	ESF #9 – Search and Rescue	ESF #10 – Oil Spill, Hazardous Materials, and Radiological	ESF #11 – Agriculture	ESF #12 – Energy	ESF #13 – Public Safety and Security	ESF #14 – Community Recovery, Mitigation, and Economic Stabilization	ESF #15 – Emergency Public Information	ESF #16 – Military Support To Civil Affairs
Governor's Office of Homeland Security and Emergency Preparedness		P			P	<i>S</i>	P			<i>S</i>				P	P	<i>S</i>
Louisiana National Guard	<i>S</i>	P	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	P	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	P
Department of Agriculture and Forestry		<i>S</i>		P	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	P		<i>S</i>	<i>S</i>	<i>S</i>	
Department of Corrections	<i>S</i>	<i>S</i>			<i>S</i>	P		<i>S</i>	<i>S</i>				<i>S</i>		<i>S</i>	
Department of Culture, Recreation and Tourism		<i>S</i>		<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>		<i>S</i>		<i>S</i>		<i>S</i>		<i>S</i>	
Department of Economic Development		<i>S</i>			<i>S</i>		<i>S</i>							P	<i>S</i>	
Department of Education	<i>S</i>				<i>S</i>										<i>S</i>	
Department of Environmental Quality		<i>S</i>			<i>S</i>			<i>S</i>		P	<i>S</i>			<i>S</i>	<i>S</i>	
Louisiana State Fire Marshal				<i>S</i>		<i>S</i>			<i>S</i>	<i>S</i>					<i>S</i>	
Governor – Division of Administration		<i>S</i>	<i>S</i>		<i>S</i>		<i>S</i>						<i>S</i>	<i>S</i>	<i>S</i>	
Governor – Office of Elderly Affairs	<i>S</i>	<i>S</i>			<i>S</i>	<i>S</i>									<i>S</i>	
Governor – Office of Financial Institutions														<i>S</i>	<i>S</i>	
Governor – Office of Indian Affairs					<i>S</i>										<i>S</i>	

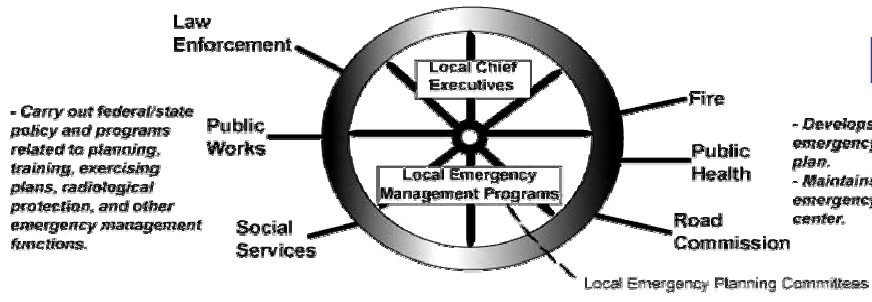
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Governor – Oil Spill Coordinators Office		S			S					P					S	
LSU Health Care Services Division		S			S	S	S	S		S				S	S	
Department of Health and Hospitals	S	S	S		S	S	S	P		S	S			S	S	
Department of Justice		S			S								P		S	
Department of Labor		S			S		S							S	S	
Department of Natural Resources		S	S	S	S		S			S	S	P		S	S	
Louisiana Public Service Commission	S	S			S							P		S	S	
Board of Regents	S	S			S	S	S	S			S		S	S	S	
Department of Revenue		S			S								S	S	S	
Department of Social Services		S			S	P	S							S	S	
Secretary of State					S									S	S	
Louisiana State Police	S	P			S		S		S	P			P	S	S	
Department of Transportation and Development	P	S	P	S	S		S	S	S	S	S		S	S	S	
Department of Treasury					S		S							S	S	
Department of Wildlife and Fisheries	S	S		S	S				P	S	S		S		S	
Volunteer Organizations	S	S			S	S	S	S	S		S			S	S	

Emergency Management

Similarly Organized at the

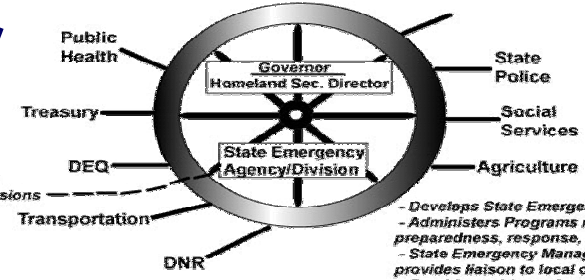
Federal, State, and Local level

Local



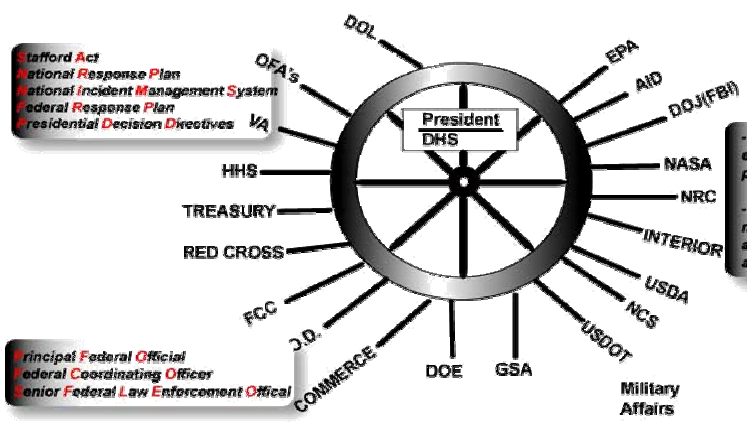
- Develops local emergency operations plan.
- Maintains local emergency operations center.

State



- State Laws
- State Emergency Response Commissions

Federal



- Principal Federal Official
- Federal Coordinating Officer
- Senior Federal Law Enforcement Official

Support Request to State

*Methods of
Request for Support and SITREPs:
Primary: E-Team
Other: FAX, Phone, E-mail,
800 mhz, Sat phone*

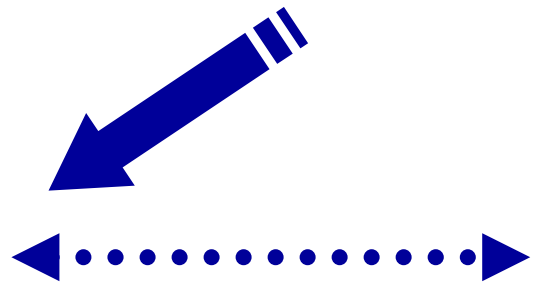
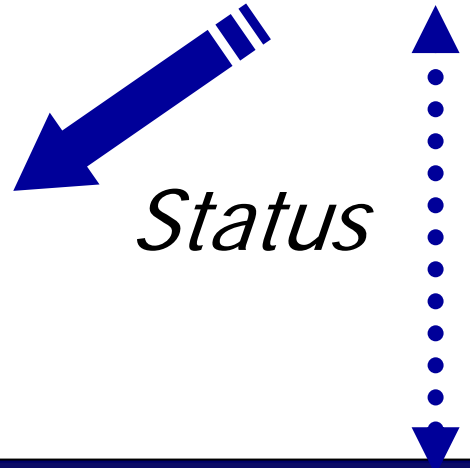
Request

Parish
Request For
Support & Provide
SITREP To State EOC

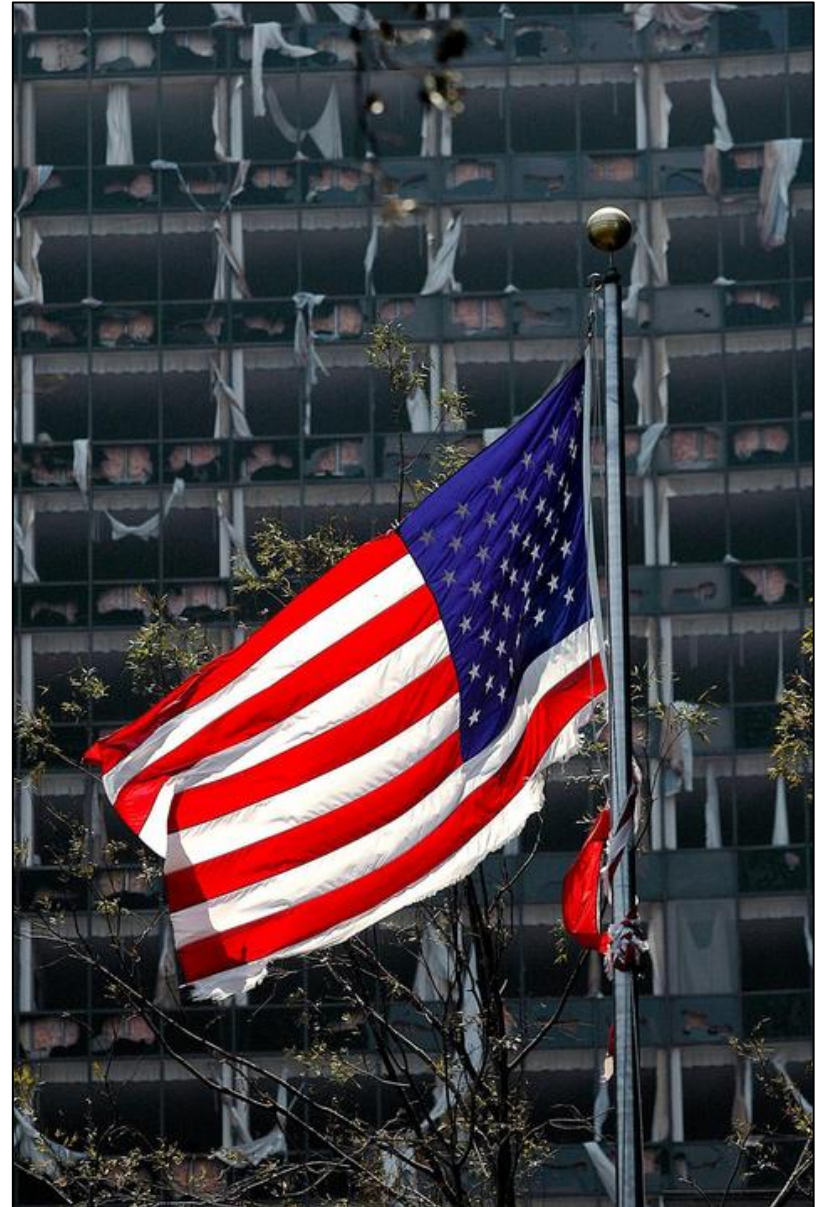
State EOC
Receives, Validates,
Authorizes &
Tracks Support

**State ESF, EMAC
Mutual Aid or FEMA**
Provides
Support & Tracks

Tasked ESF
Point Of Contact
Maintain Linkage



Statistics for Hurricanes Katrina & Rita



U.S. Disasters

FEMA Comparative Cost-Share Per Capita

Disaster	FEMA Cost	State Population	Cost Per Capita
Hurricane Katrina (LA) (2005)	\$43 billion	4.5 million	\$9,500
World Trade Center (2001)	\$7.4 billion	18.976 million	\$390
Northridge Earthquake (1994)	\$7.0 billion	29.760 million	\$235
Hurricane Andrew (1992)	\$1.8 billion	12.938 million	\$139
Hurricane Iniki (1992)	\$259.7 million	1.108 million	\$234
Loma Prieta Earthquake (1989)	\$867 million	23.668 million	\$ 37

Costliest Atlantic Hurricanes, 1851-2004

Cost Refers To Total Estimated Property Damage

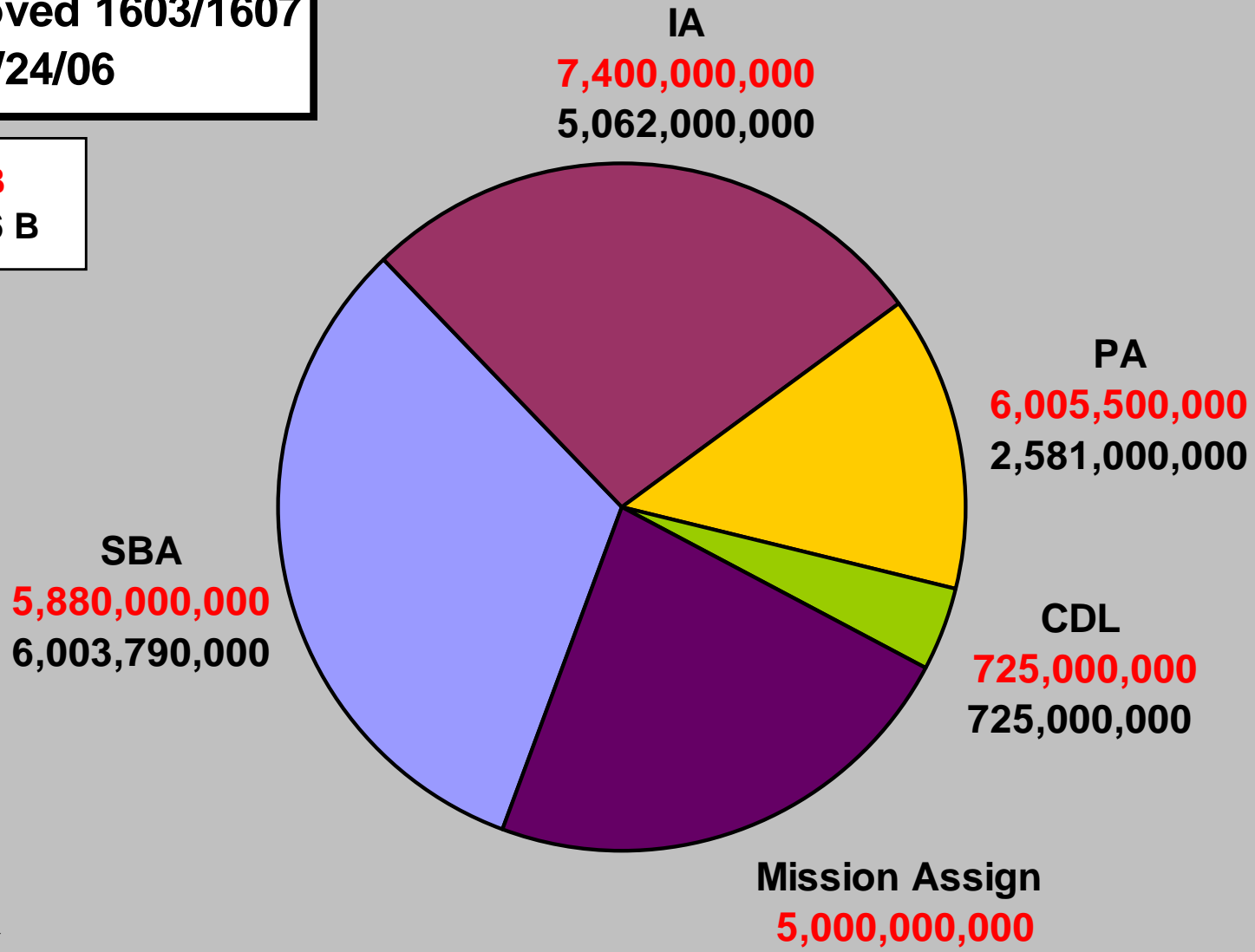
Rank	Hurricane	Year	Cost
1	Katrina	2005	\$100 billion (est. 2005/USD)
2	Andrew	1992	\$43.672 billion (2004 USD)
3	Fifi	1974	\$20 billion (2005 USD)
4	Charley	2004	\$15 billion (2004 USD)
5	Ivan	2004	\$14.2 billion (2004 USD)

Source: NOAA



**LA Money Approved 1603/1607
As of: 5/24/06**

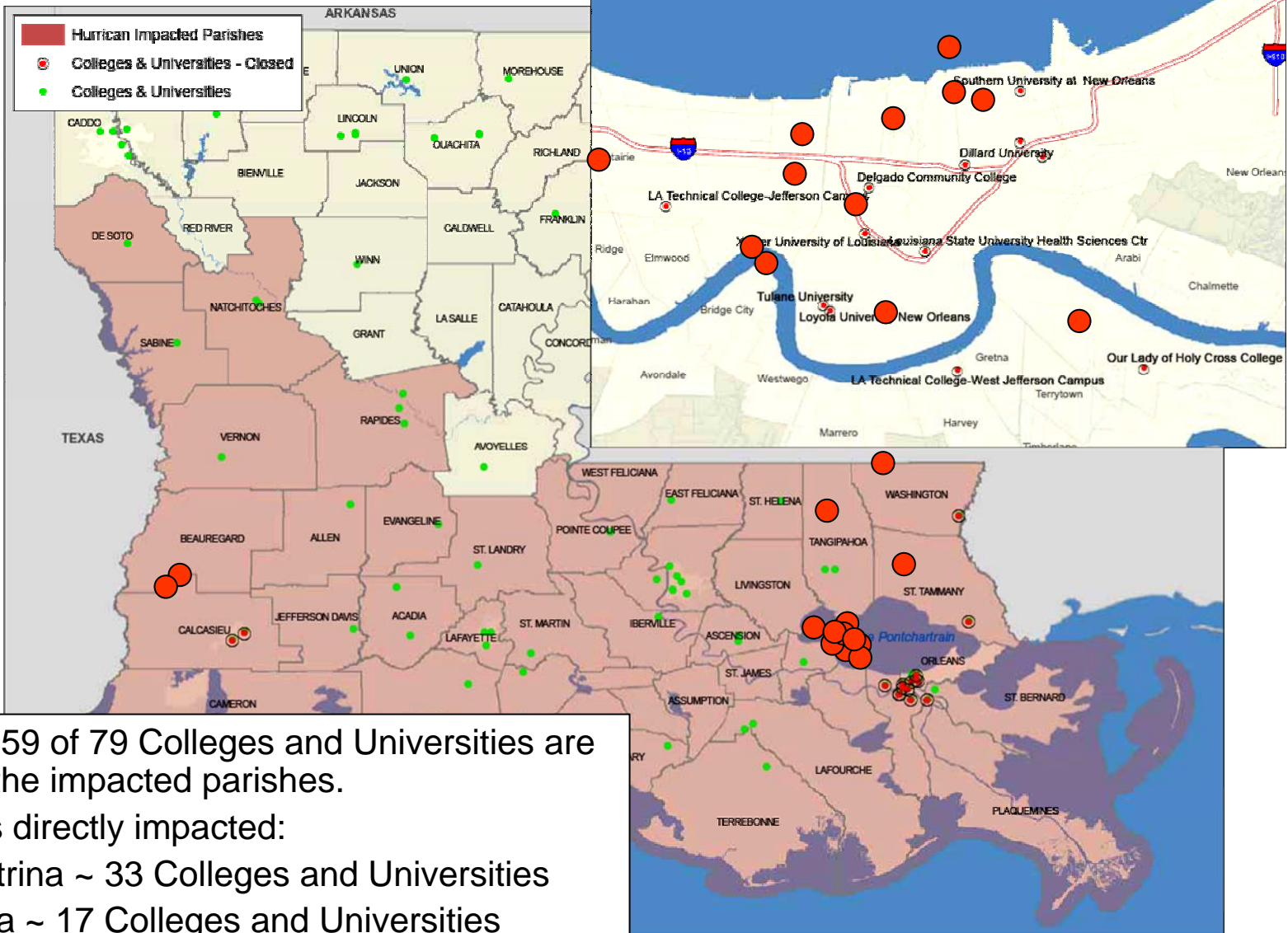
**Total Projected: \$ 25 B
Total Approved: \$ 18.6 B**



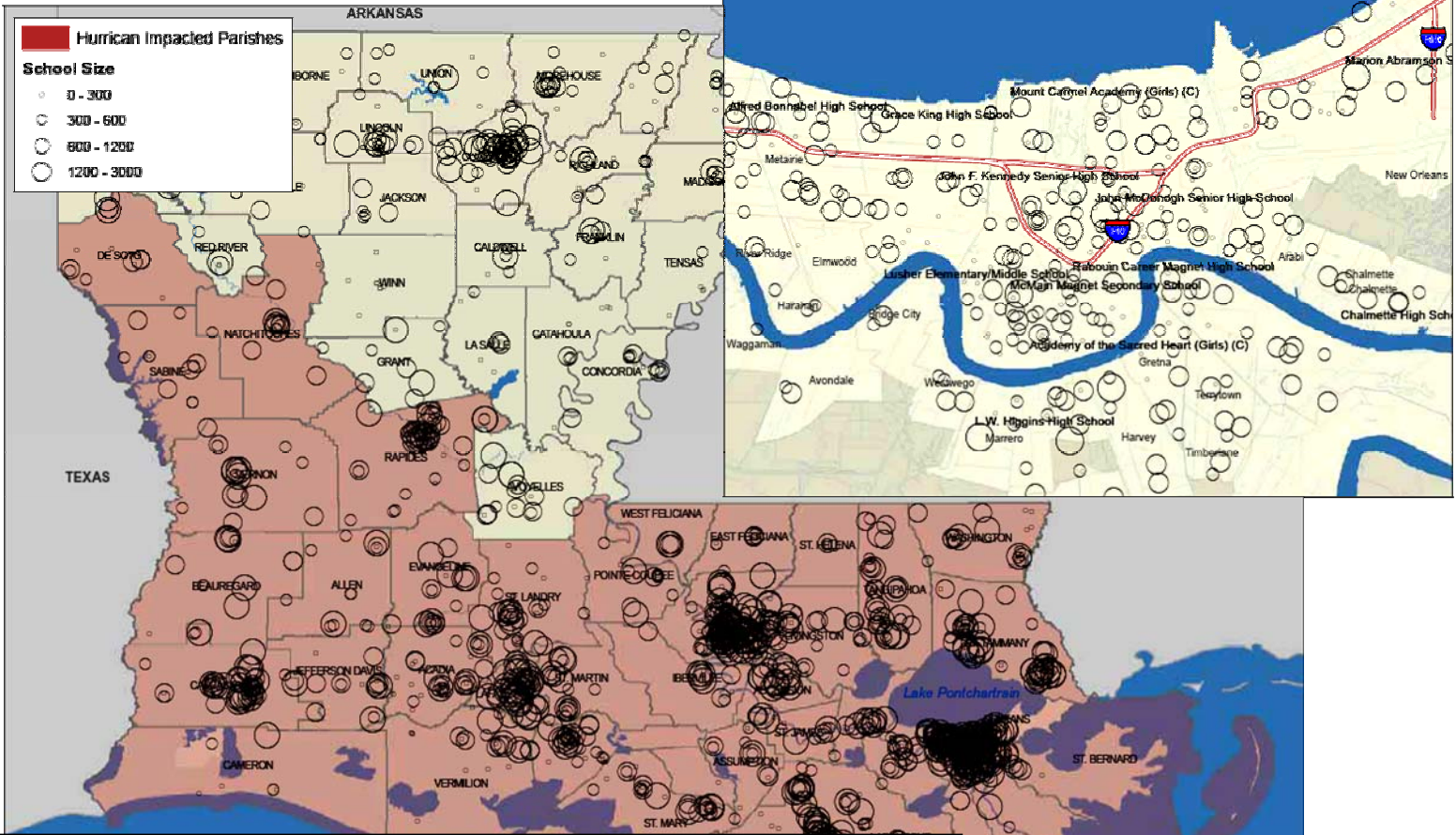
Projected Hazard Mitigation Funds

\$ 2,000,000,000 +

IMPACTED COLLEGES & UNIVERSITIES



IMPACTED PRIMARY SCHOOLS



Approximately 1500 of 2000 primary schools are located within the impacted parishes. The hurricanes directly impacted:

- Hurricane Katrina ~ 930 schools - 480,000 students & teachers
- Hurricane Rita ~ 515 schools - 235,000 students & teachers

Hurricane Katrina Search and Rescue

This was the largest search & rescue operation in United States history

LDWF - Over **21,000** lives saved by small boat search & rescue

Coast Guard - Over **19,000** rescued by air and surface resources in Southeast LA

National Guard - Over **28,000** rescued by air and surface resources in Southeast LA



Estimated Housing Units Damaged / Destroyed

MAJOR / SEVERE ONLY

KATRINA

Major Damage 126,900

Severe Damage 237,200

RITA

Major Damage 12,700

Severe Damage 3,750

TOTAL 380,600



Source: Real Property Damage Estimates from FEMA December 15, 2005 Data Extract

Note: FEMA Housing inspections are not complete; these numbers are estimates subject to future revision

Oil Spills Cleanup

6 Major, 3 Medium, 304 minor oil spills investigated/overseen by USCG

Oil Spilled

8,017,674 gals

Oil Recovered –

3,849,552 gals

Burned –

3,948 gals

Evaporation/Natural Dispersion –

4,034,436 gals

Contained, float/onshore –

129,738 gals



Approximately $\frac{3}{4}$ volume of Exxon Valdez.

Economic Impact

Expected Stafford Act Expenditures \$43 billion or \$9,500 per capita for every man, woman & child in Louisiana

- ✓ Insurance Losses: Estimated at \$20.8 billion
- ✓ Destroyed Motor Vehicles
 - Estimated at 300,000 to 350,000
- ✓ Direct Tourism Dollars Lost: \$1 billion by Dec. 31
- ✓ LA Department of Revenue is reporting a loss of \$1 billion for 2005
- ✓ Businesses Damaged or Destroyed - nearly 71,000
 - 4 in 10 of the state's businesses were damaged or destroyed by the storms (SBA)
 - 90% of the affected businesses are small businesses
 - Represents about 30% of State's total economy

Damage Statistics for Katrina & Rita

Destruction	Katrina	Rita	Total
Est. Businesses Destroyed	19,500	2,300	21,800
<i>Est. Property Value</i>	<i>\$1,313,450,000</i>	<i>\$134,953,000</i>	<i>\$1,448,403,000</i>
Homes without Electricity after Hurricane	515,100	46,600	561,700
Homes without Telecom after Hurricane	267,300	21,700	289,000
<i>Est. Total Damages to Water/Waste Collection</i>	<i>\$73,475,000</i>	<i>\$6,000,000</i>	<i>\$79,475,000</i>

Damage Statistics for Katrina & Rita

Destruction	Katrina	Rita	Total
K-12 Schools Destroyed	62	14	76
K-12 Schools Damaged	329	80	409
Colleges/Universities Damaged	19	5	24
<i>Est. Cost to Repair Colleges/Universities</i>	<i>\$186,137,000</i>	<i>\$10,863,200</i>	<i>\$197,000,200</i>
State Buildings Destroyed or Damaged	60	17	77
<i>Est. Cost to Repair State Buildings</i>	<i>\$655,856,691</i>	<i>\$16,161,037</i>	<i>\$672,017,728</i>
Hospitals Closed	18	1	19