

REPORT ON NEW ORLEANS STORM SURGE BARRIER RESILIENCY AFTER HURRICANE IDA

STORMS, FLOODING & SEA LEVEL DEFENSE
CONFERENCE

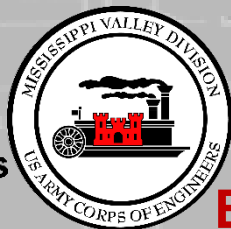
Mark Wingate, P.E.

Deputy District Engineer (DPM)
US Army Corps of Engineers
New Orleans District

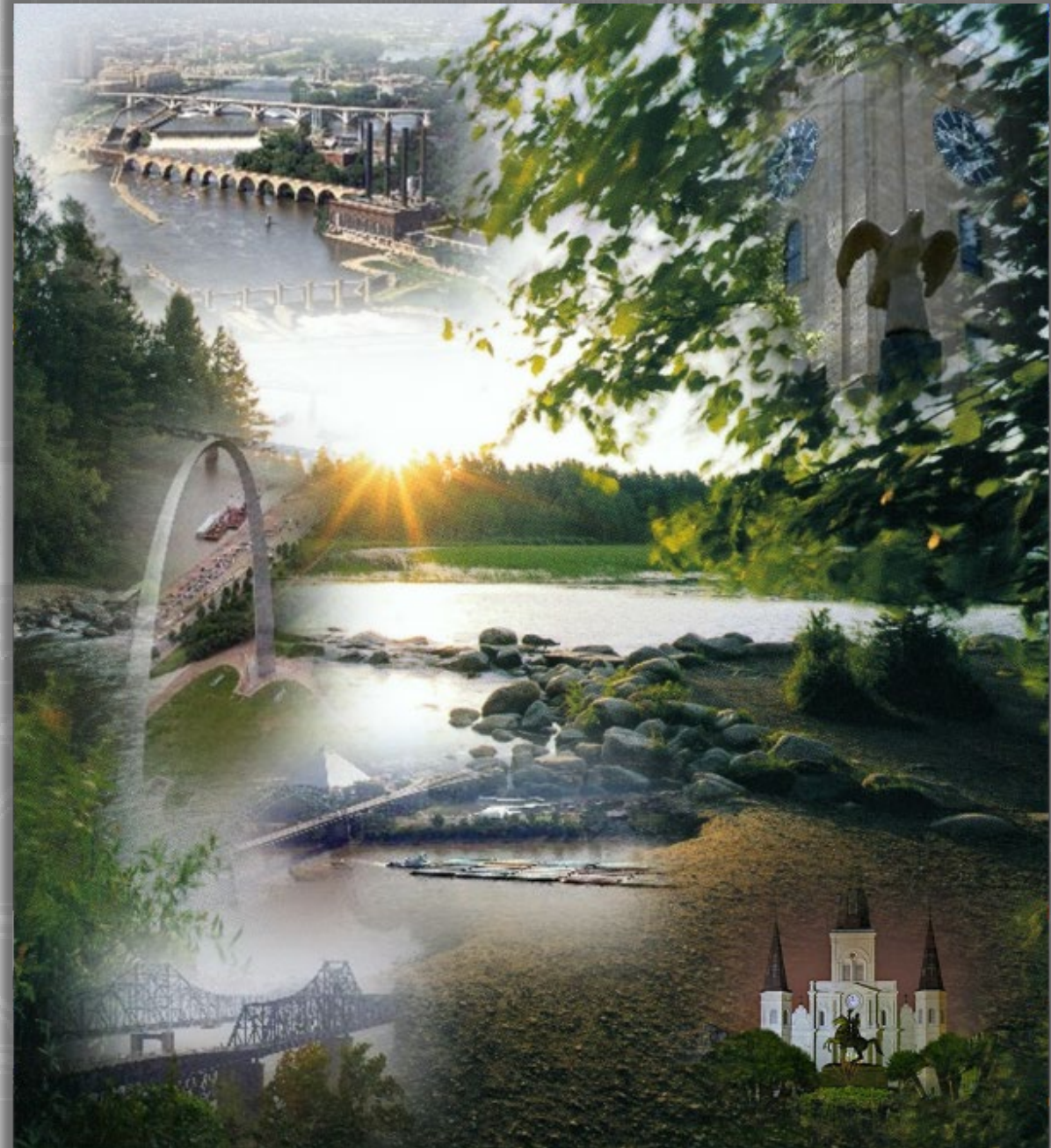
November 3, 2021



US Army Corps
of Engineers®



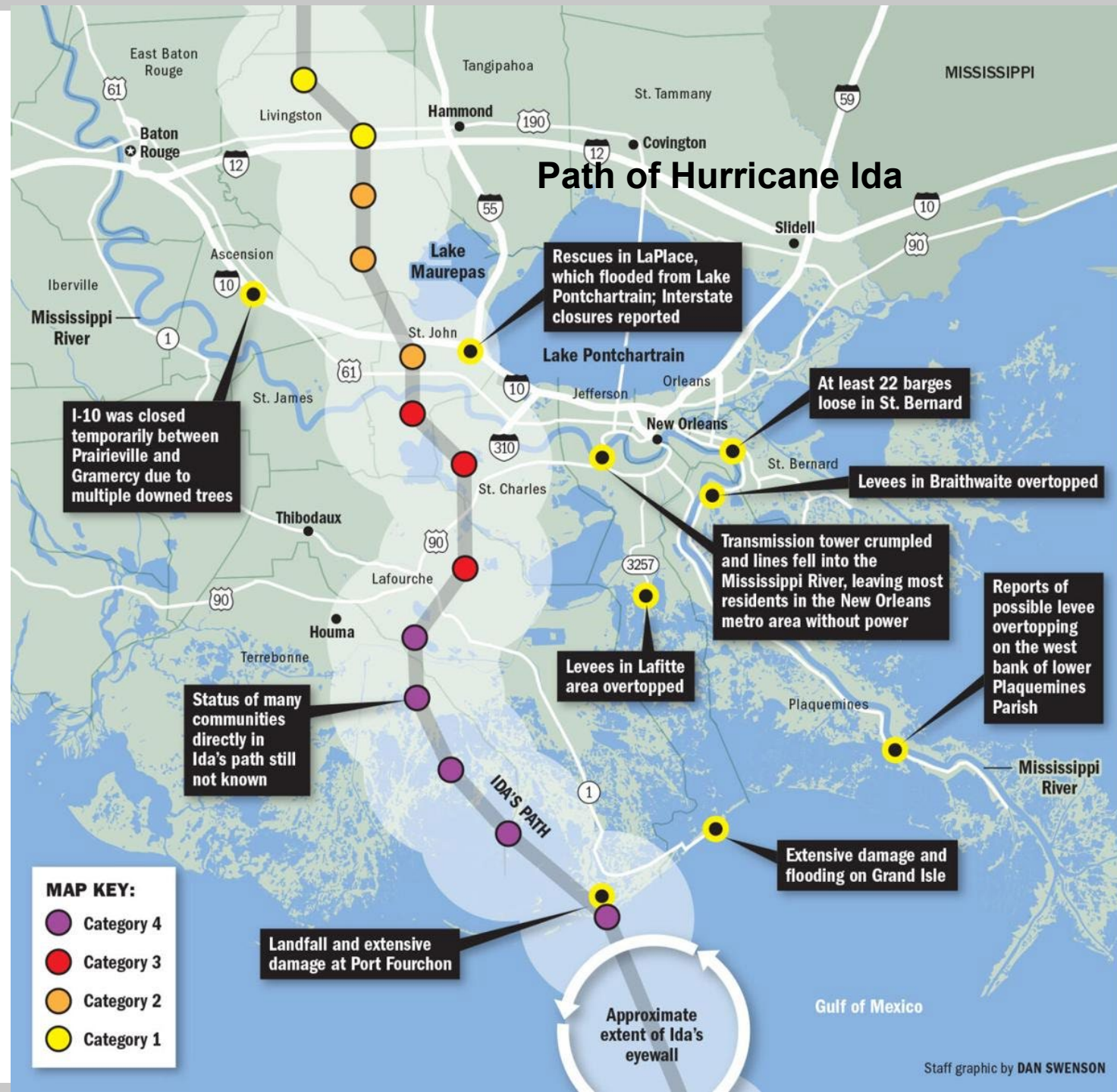
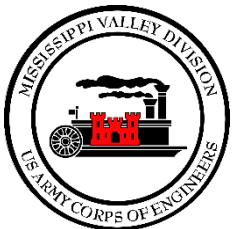
BUILDING STRONG®





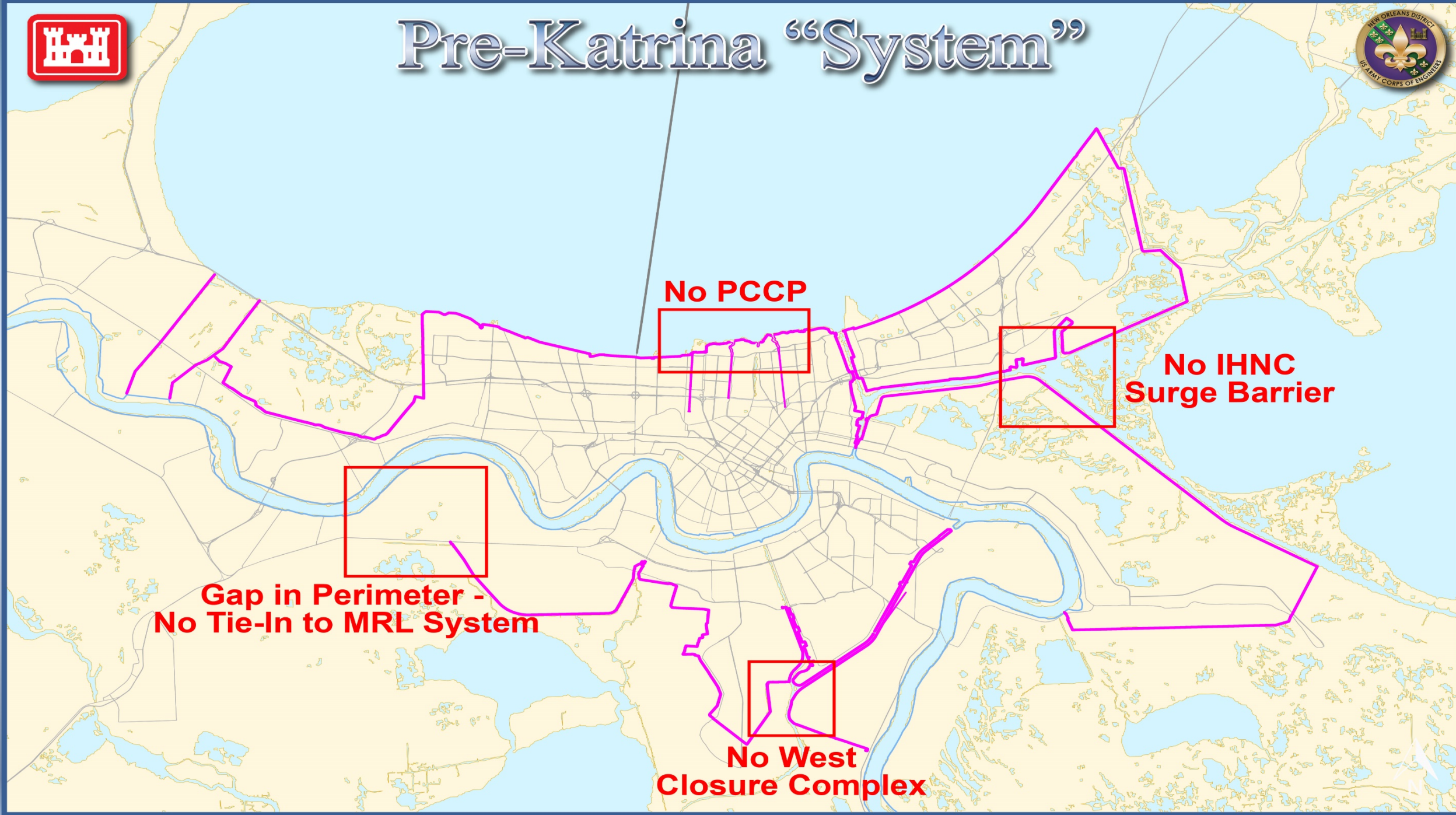
HURRICANE IDA

- 150 mph maximum sustained winds
- Very strong Category 4 hurricane
 - Category 5 is 157 mph winds
- The second most intense hurricane to strike Louisiana
 - Second only to Hurricane Katrina
- Made landfall on August 29, 2021
 - 16th Anniversary of Katrina
- HSDRRS performed as designed
 - No reported overtopping of HSDRRS features, or any other Federal levees





Pre-Katrina "System"



No PCCP

**No IHNC
Surge Barrier**

**Gap in Perimeter -
No Tie-In to MRL System**

**No West
Closure Complex**

A STRONGER SYSTEM THAN EVER BEFORE

LAKE PONTCHARTRAIN



- Developed new HSDRRS hydraulic, geotechnical and structural design criteria.
- Floodwalls and hardened structures built for 2057 hydraulic conditions
- Pre-Katrina system: 200 miles
- Post-Katrina 100-yr system: 130 miles
- 35% shorter perimeter exposed to surge

Turning Over the \$14.6B HSDRRS to the State

State owned, operated & maintained system

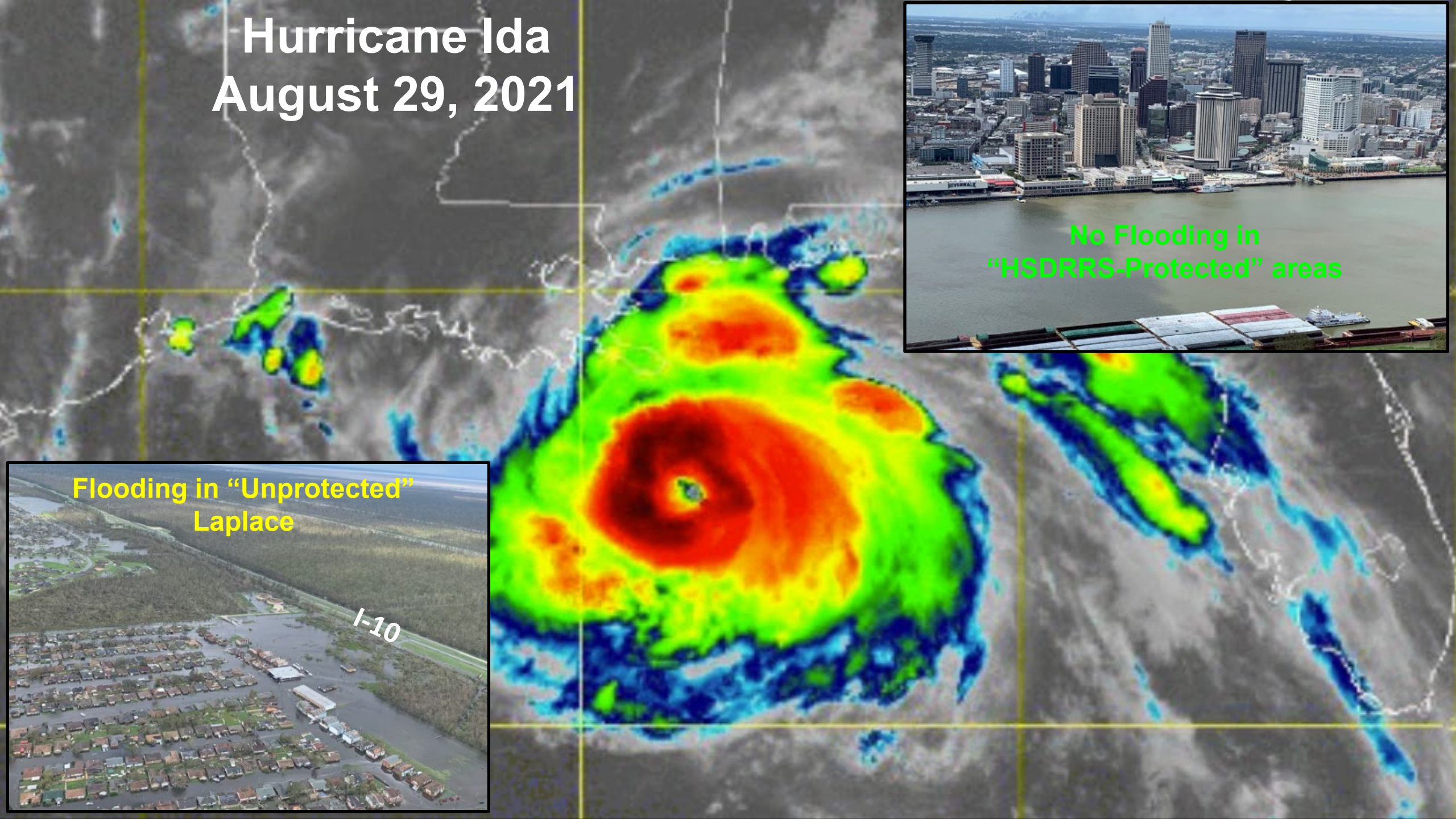


GREATER NEW ORLEANS HSDRRS CLOSURES/INTERIOR REACHES

- HSDRRS (Perimeter Reaches)
- HSDRRS (Interior Reaches)
- Closure Structures/Gates

Hurricane Ida

August 29, 2021



No Flooding in
"HSDRRS-Protected" areas

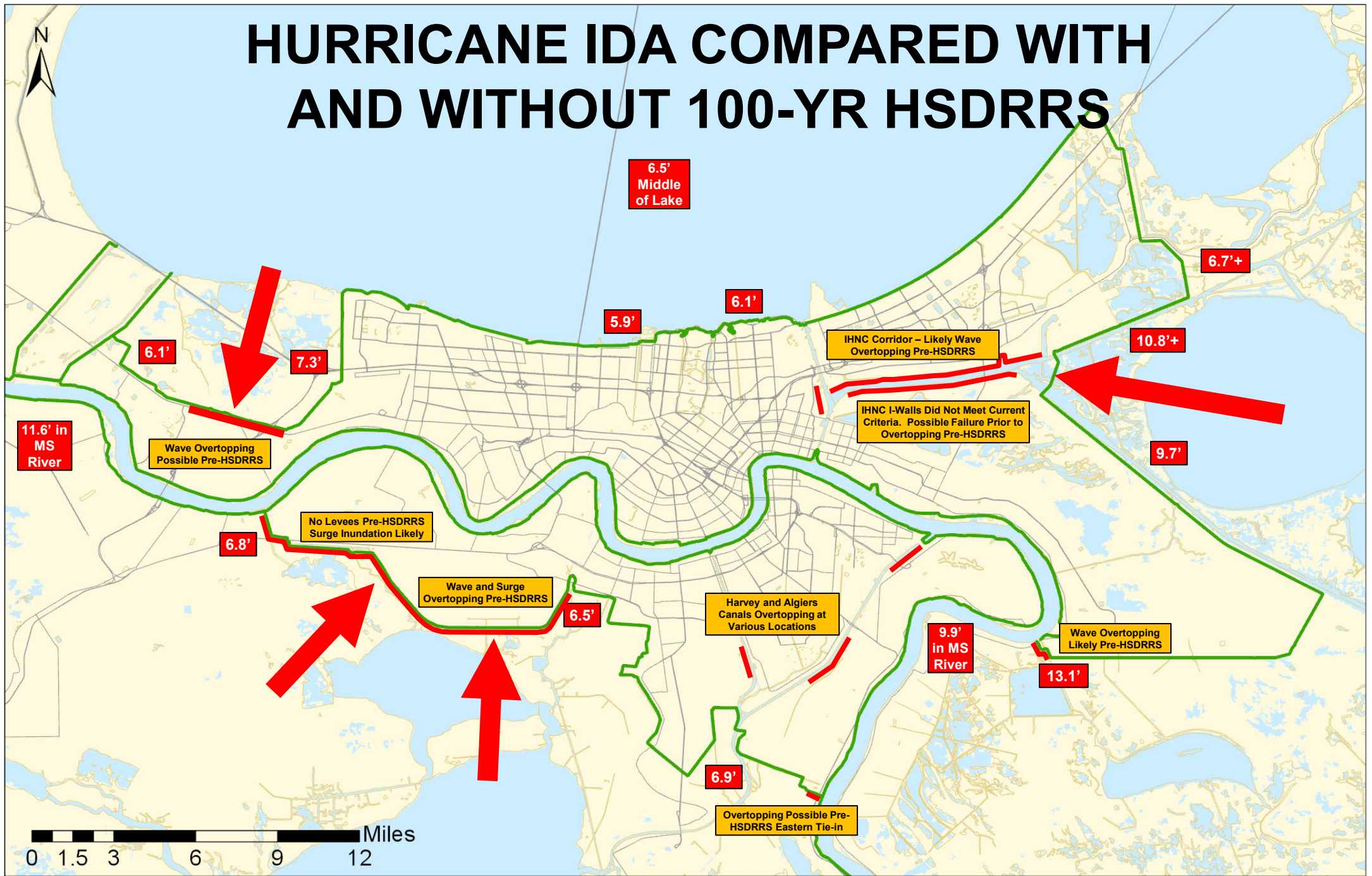


Flooding in "Unprotected"
Laplace

I-10



HURRICANE IDA COMPARED WITH AND WITHOUT 100-YR HSDRRS

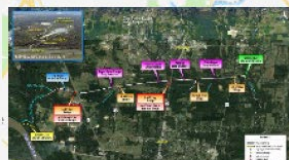


New Orleans District BBA-18 Projects

\$1.4B

BIPARTISAN BUDGET ACT OF 2018 (BBA 18) CONSTRUCTION SUPPLEMENTAL FUNDING

Received full funding for construction of five risk management projects



Comite Diversion \$340M
Est. Completion: 2021



East Baton Rouge \$255M
Est. Completion: 2023



West Shore Lake Pontchartrain \$760M
Est. Completion: 2024



Carrollton Floodwall \$15-30M
Est. Completion: 2022

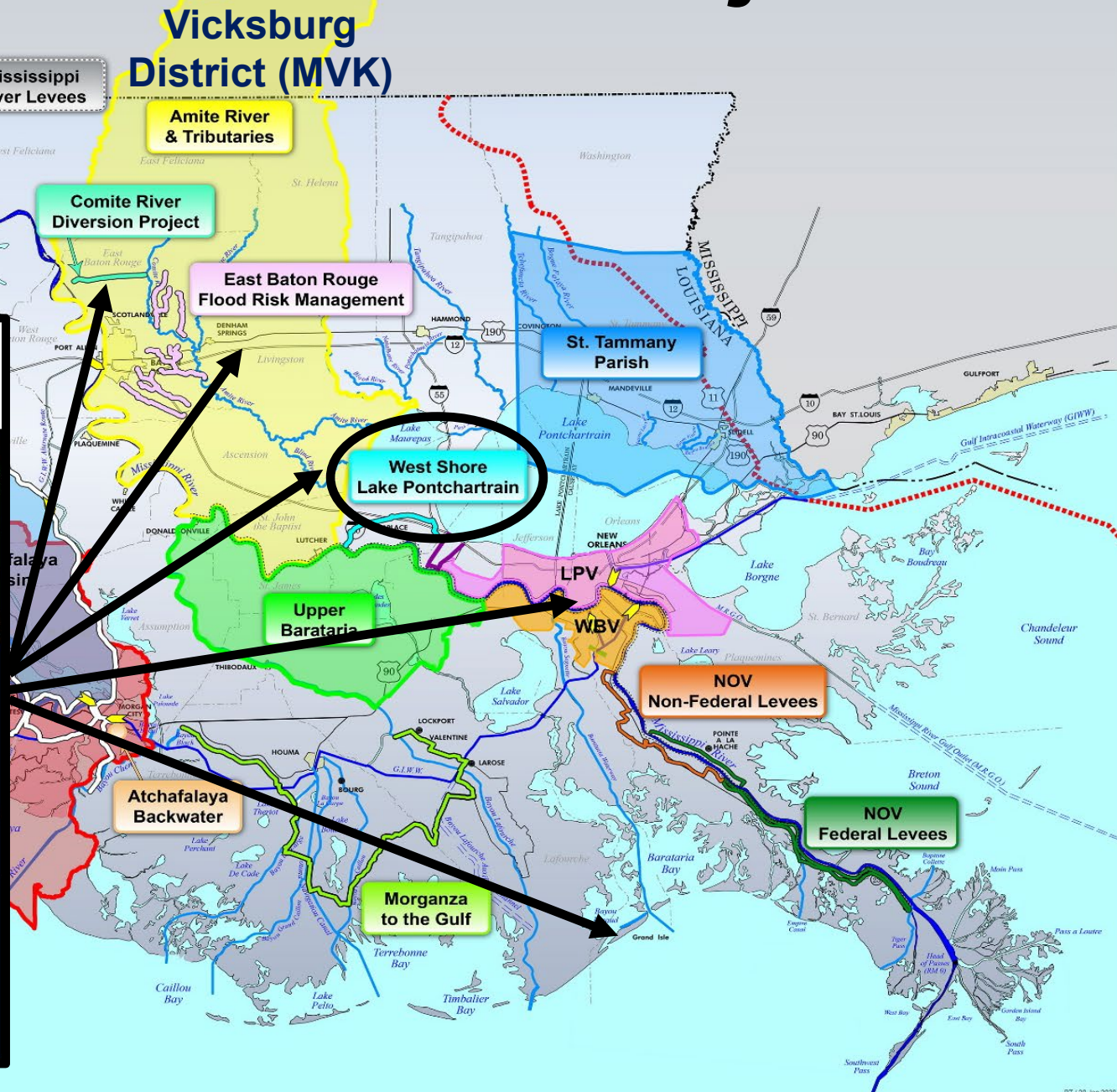
Grand Isle \$15M
Est. Completion: 2021



• Opened a Baton Rouge sub-office

- \$1.8B in BBA 18 funds
- \$1.388B in long-term flood damage risk reduction

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New Orleans District Projects and Studies

Future Flood Risk Management Investments Under Consideration:

~\$17B

Mississippi River Levees

Amite River & Tributaries

Comite River Diversion Project

East Baton Rouge Flood Risk Management

St. Tammany Parish

West Shore Lake Pontchartrain

MRL Carrollton Phase III

LPV Levee Lifts GRR

Southwest Coastal Louisiana

Atchafalaya Basin

Upper Barataria

WBV Levee Lifts GRR

NOV Non-Federal Levees

South Central Coast

Atchafalaya Backwater

Morganza to the Gulf

NOV Federal Levees

Grand Isle & Vicinity

Southwest Pass Deepening

- LEGEND**
- Mississippi River Levees (MRL)
 - MVN District Boundary
 - Atchafalaya Basin Levees
 - New Orleans to Venice (NOV) Federal Levees
 - NOV Non-Federal Levees
 - Morganza to the Gulf (MTG)
 - West Shore Lake Pontchartrain
 - Comite River Diversion Project
 - East Baton Rouge Flood Risk Management
 - Grand Isle & Vicinity
 - Southwest Pass Deepening
 - MRL Carrollton Phase III
 - Atchafalaya Backwater
 - Atchafalaya Basin
 - Southwest Coastal Louisiana (FRM)
 - South Central Coast (FRM)
 - Amite River & Tributaries (FRM)
 - Upper Barataria (FRM)
 - St. Tammany Parish (FRM)
 - Lake Pontchartrain & Vicinity (LPV) (GRR)
 - West Bank & Vicinity (WBV) (GRR)
 - Locks

Potential Future Investments in South Louisiana

Extending Government Funding and Delivering Emergency Assistance Act (Ida Supplemental) and the Bipartisan Infrastructure Deal (BID)

Ida Supplemental

- \$5.711B to USACE
 - \$100M in Investigations
 - \$3B in Construction
 - \$868M in MR&T (Louisiana only)
 - \$887M in O&M
 - \$826M in FCCE

Bipartisan Infrastructure Deal

?

Potential for additional investment

MG Graham, BG Tickner, and COL Murphy Testifying before the US Senate Committee on Environment and Public Works on USACE Emergency Response to Hurricane Ida

October 6, 2021

MG Graham

**Deputy Commanding General
for Civil and Emergency Ops**

BG Tickner

**North Atlantic Division
Commander**

COL Murphy

**New Orleans District
Commander**

Key Takeaways

- 1. Planning for relative sea level rise/climate change**
- 2. Incorporating project resiliency**
- 3. Informing investment decisions**
- 4. Proactive investments**