



CPRA FLOOD RISK & RESILIENCE PROGRAM

Community Conversations – February 2016



Current Status of Nonstructural Programs

- **CPRA goals:**

- **Protection:** Use a combination of restoration, nonstructural, and targeted structural measures to provide increased flood protection for all communities.

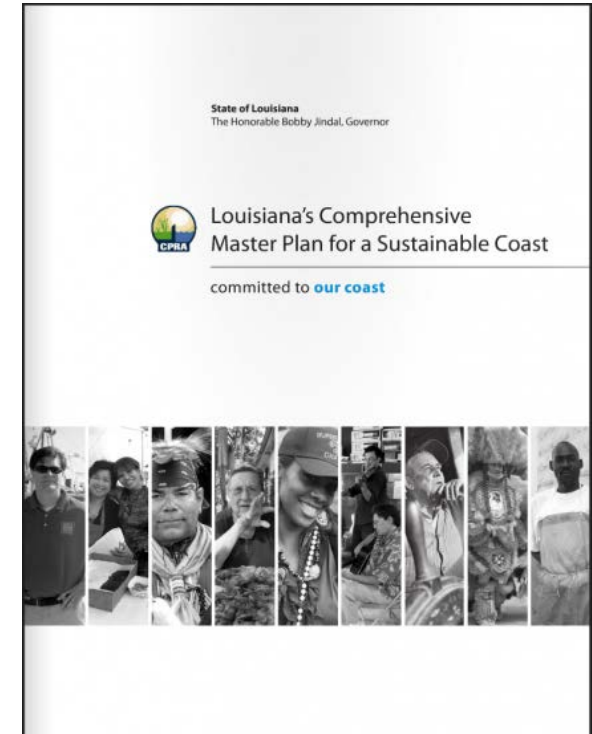
- **Office of Community Development/GOHSEP**

- Emergency response and mitigation (GOHSEP)
 - FEMA Pre-Disaster Mitigation/Flood Mitigation Assistance/Hazard Mitigation Grant Program
- Hazard recovery (OCD)
 - State Community Development Block Grant/Road Home Program



Building on 2012 Coastal Master Plan

- **2012 Master Plan broad approach**
 - 2012 Master Plan recommended nonstructural projects in 42 of the 56 community areas analyzed. However, the plan did not outline a methodology for prioritizing or implementing nonstructural projects in coastal parishes.
- **2017 Master Plan refined approach**
 - Build on 2012 by conducting a refined coastal flood risk vulnerability analysis, defining nonstructural project areas, prioritizing projects, and developing a process for the implementation of projects



Flood Risk & Resilience Program

Goals and Objectives



Goal: to reduce coastal flood risk for homes, businesses, and community assets through the development and implementation of nonstructural projects and related policies

CPRA aims to do the following:

1. Advance the recommendations in the 2012 Coastal Master Plan by providing a more specific strategy for implementing nonstructural projects in communities
2. Coordinate resources and expand citizens access to information and tools that can help guide individual and local community decisions to reduce flood risk

Program Framework

- 1. Develop Data & Tools:** Develop integrated databases on flood risk, vulnerability, and socio-economic trends to determine the most effective mitigation measures.
- 2. Provide Information:** Increase public awareness of current and future flood risks and provide clear mapping and visualization tools for coastal communities.
- 3. Provide Options:** Maximize choices of mitigation measures and clearly communicate options to individuals and communities.
- 4. Create Platforms for Collaboration & Action:** Create networks of coastal stakeholders and diverse community participants to partner in program development and implement solutions.

Technical Process:

Developing the 2017 Coastal Master Plan



Step 1:
Identify
Candidate
Projects



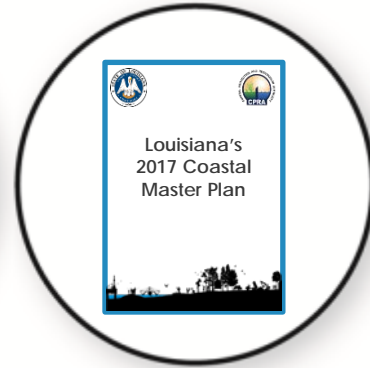
Step 2:
Evaluate/
Model
Projects



Step 3:
Compare
Projects &
Develop
Alternatives

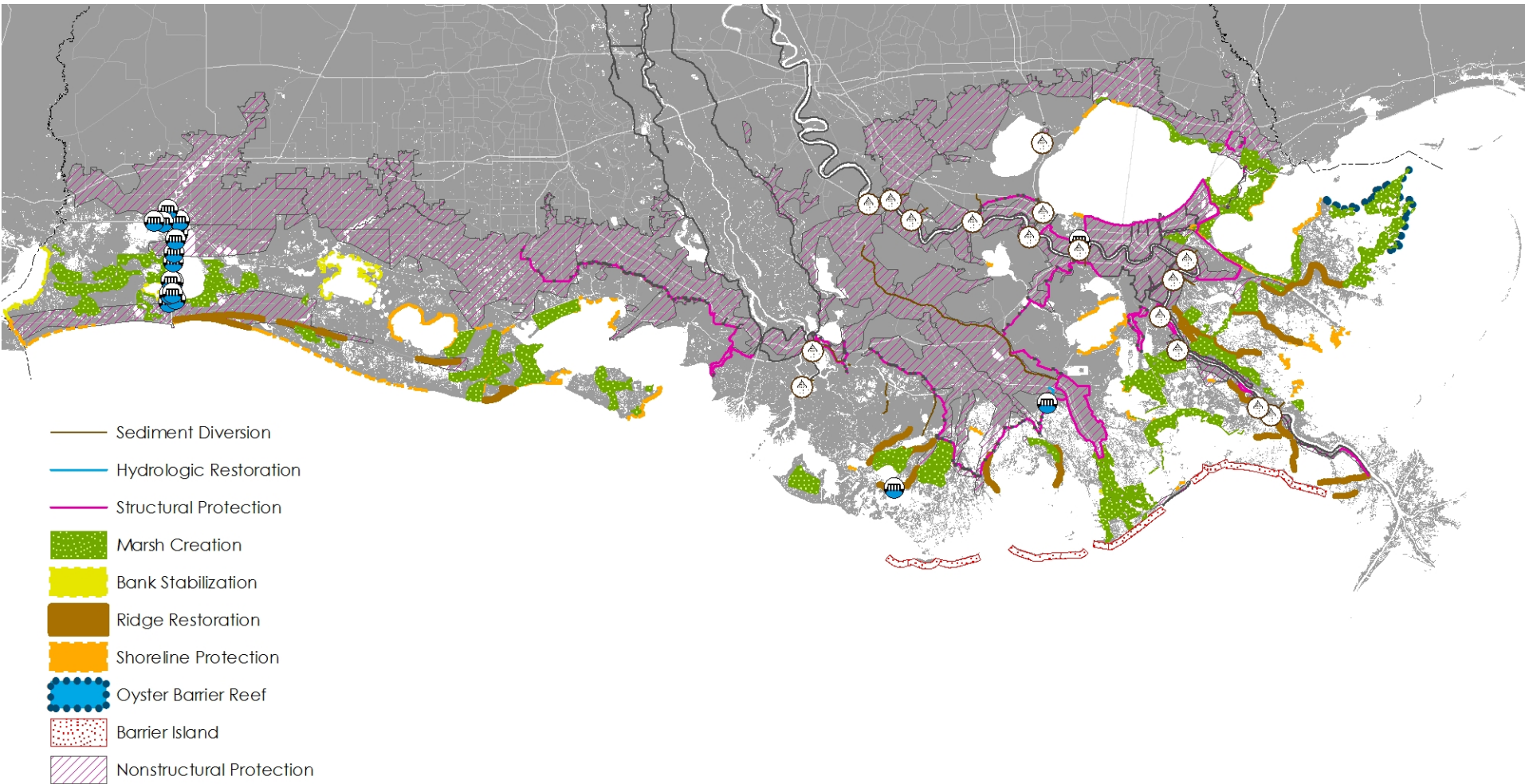


Step 4:
Model &
Compare
Alternatives

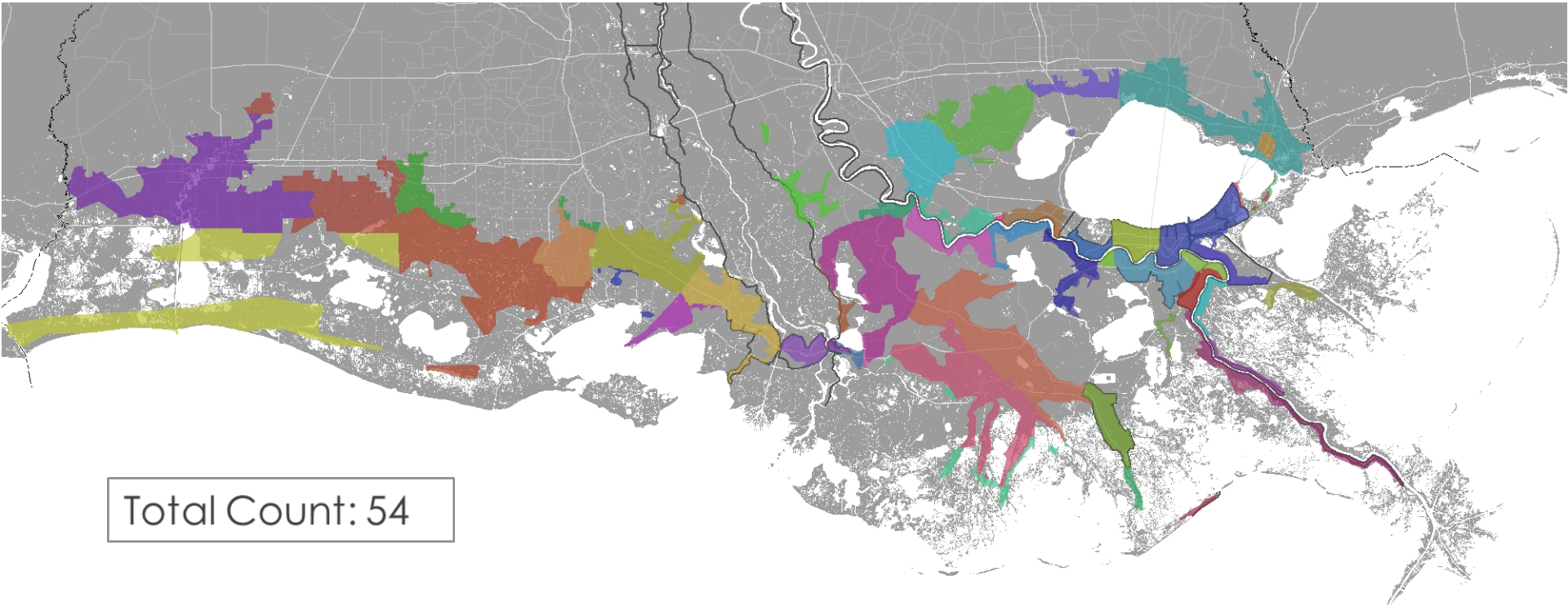


Step 5:
Develop
Draft & Final
Plan

2017 Candidate Projects Being Analyzed

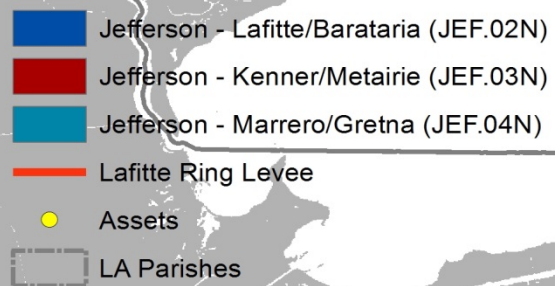


2017 Master Plan Nonstructural Project Areas



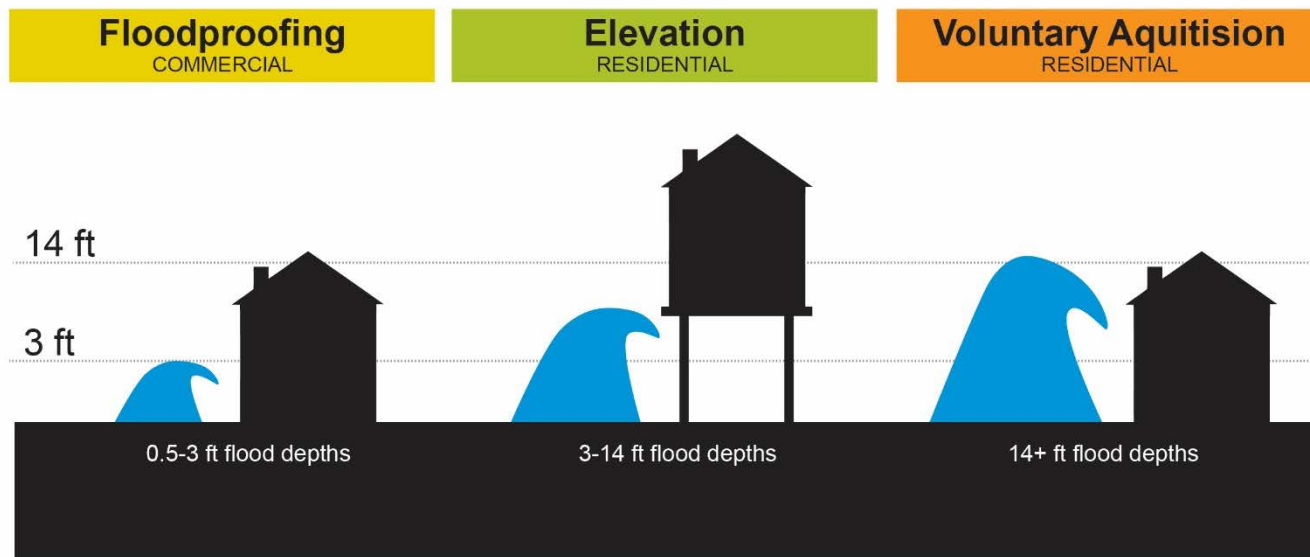
Project Areas divided by:

- Parish boundaries
- Existing or proposed levees



2017 Master Plan Nonstructural Mitigation Measures

- Commercial/Non-residential Floodproofing (0 – 3 ft)
- Residential Elevation (3 – 14 ft)
- Residential Voluntary Acquisition (> 14 ft)



Analysis of 2017 Master Plan Nonstructural Projects

- For each project area, we calculate:
 - Number of structures to be mitigated (floodproofed, elevated, acquired)
 - Cost of mitigation
 - Reduction in future damages from implementing the project
- Analyzing projects based on the following criteria:
 - Current flood depths (feet)
 - Future flood depths (Year 10, Year 25, Year 50)
 - Percent households that are low to moderate income (LMI %)
 - Cost-effectiveness of the project

Key Features of the Program

- Comprehensive strategy to identify and prioritize nonstructural projects
- Program framework, policies, and guidance documents - including the parish application process
- Identification of potential funding sources for nonstructural projects
- Funding to local parishes to facilitate project implementation
- Expanded outreach efforts to engage citizens, parishes, and stakeholders

Program Outreach and Feedback

- CPRA Board Flood Risk and Resilience Subcommittee
- Resiliency Technical Advisory Committee
- Parish Floodplain Managers Group
- Community Focus Group
- Flood Risk and Resilience Stakeholder Group
- Community Meetings



Flood Risk & Resilience Program

Next Steps

| | |
|------------------|--|
| Summer 2016 | Evaluate nonstructural projects and compare results with structural and restoration projects |
| Fall/Winter 2016 | Develop Draft Plan/Draft Project List |
| January 2017 | Draft Plan Released for Public Review |
| January 2017 | Master Plan Public Meetings |
| April 2017 | Submit Final Plan to Legislature |

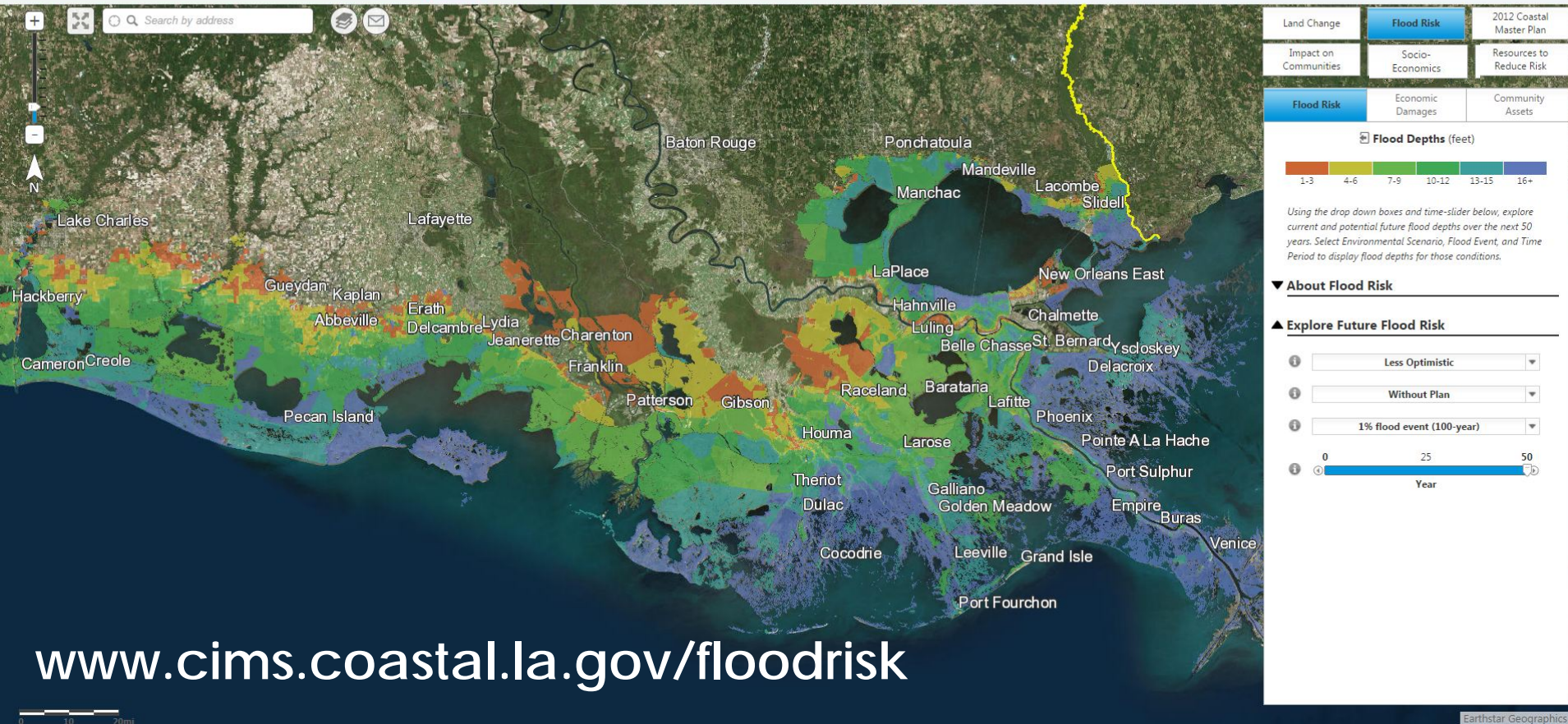
- **Appendix E – Flood Risk and Resilience Program Framework**
 - Attachment E1 – Flood Risk and Resilience Program Policy Recommendations
 - Attachment E2 – Parish Profiles
 - Attachment E3 – Nonstructural Modeling Results
 - Attachment E4 – Parish Applicant’s Handbook

Flood Risk & Resilience Data Viewer

Current & Future Flood Risk



Coastal Protection and
Restoration Authority



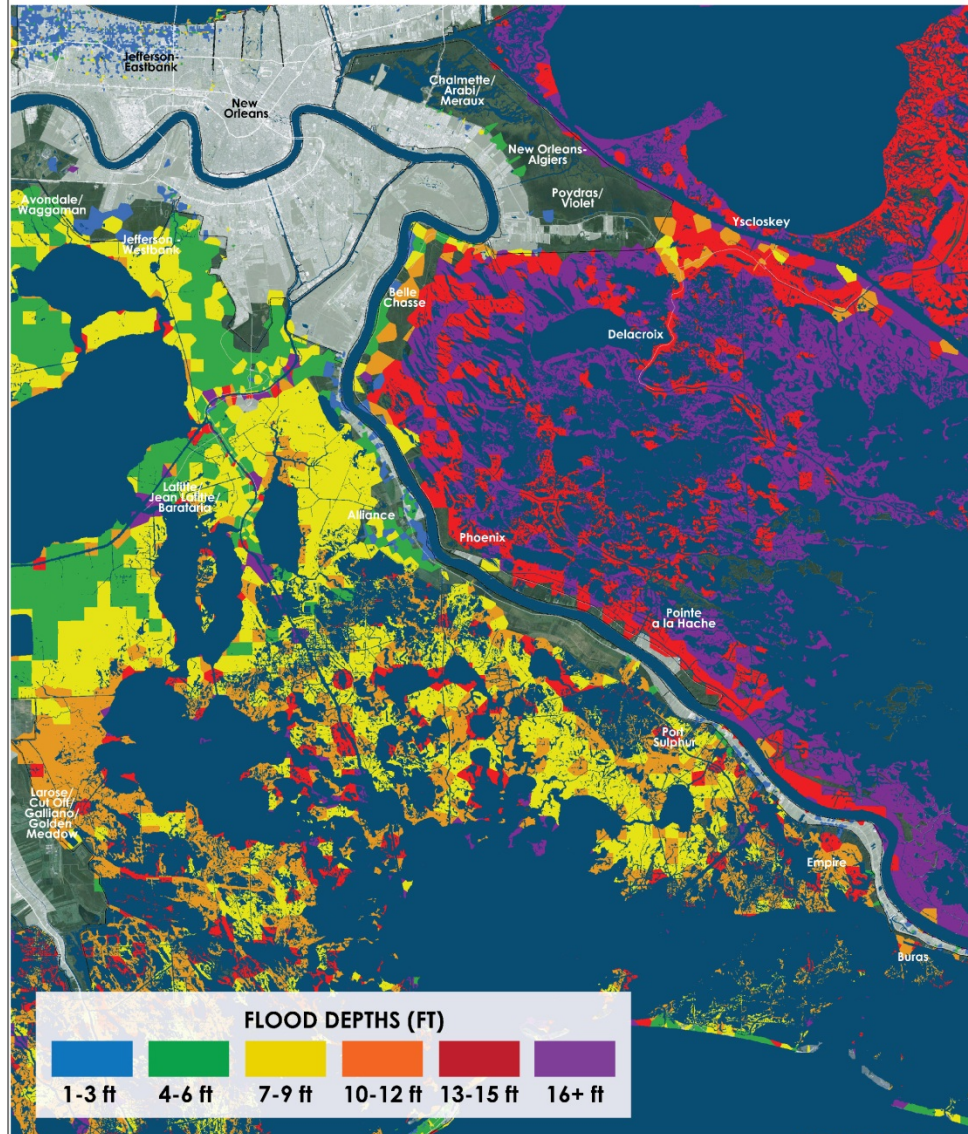
Results of Mapping Exercise



Lafitte Area

Future Flood Risk (Year 0)

community based flood risk mapping

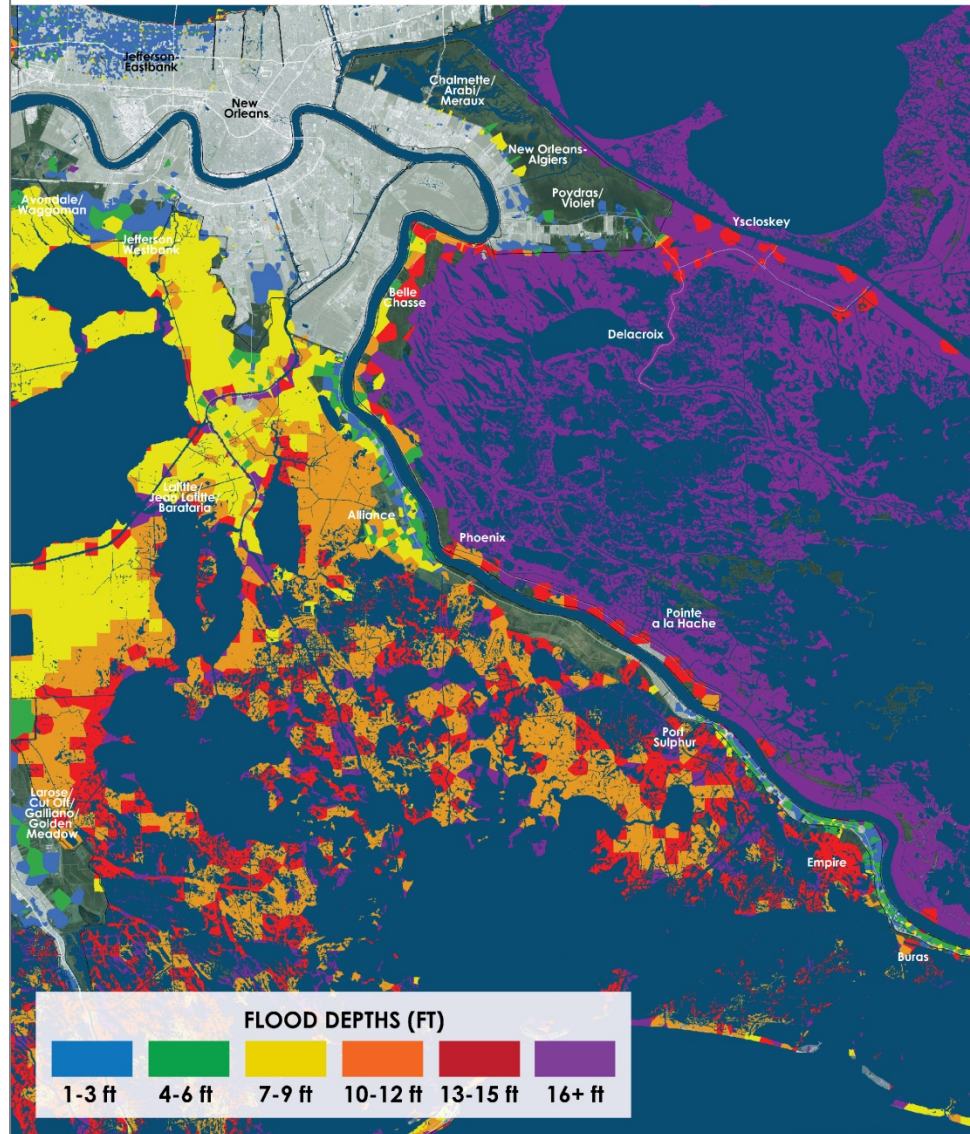




Lafitte Area

Future Flood Risk (Year 25)

community based flood risk mapping

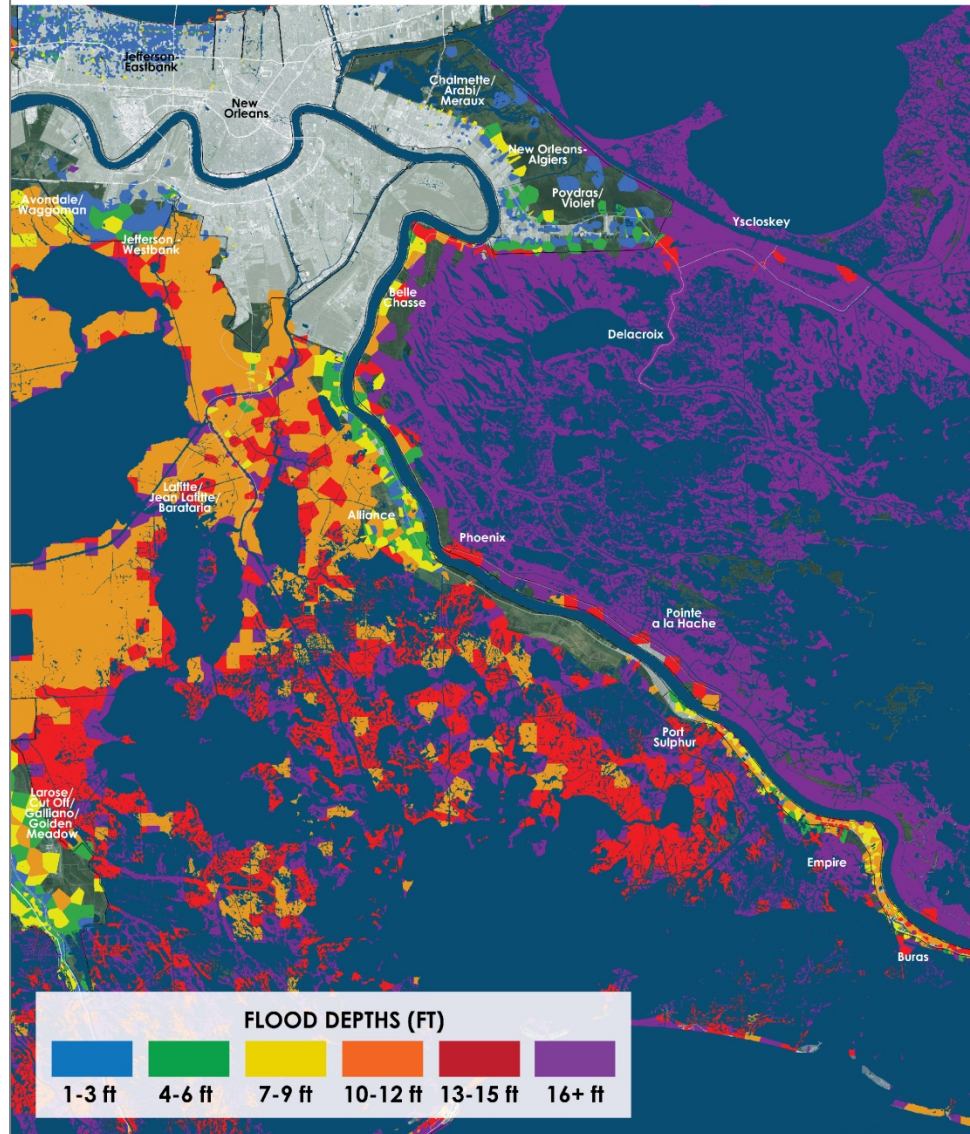




Lafitte Area

Future Flood Risk (Year 50)

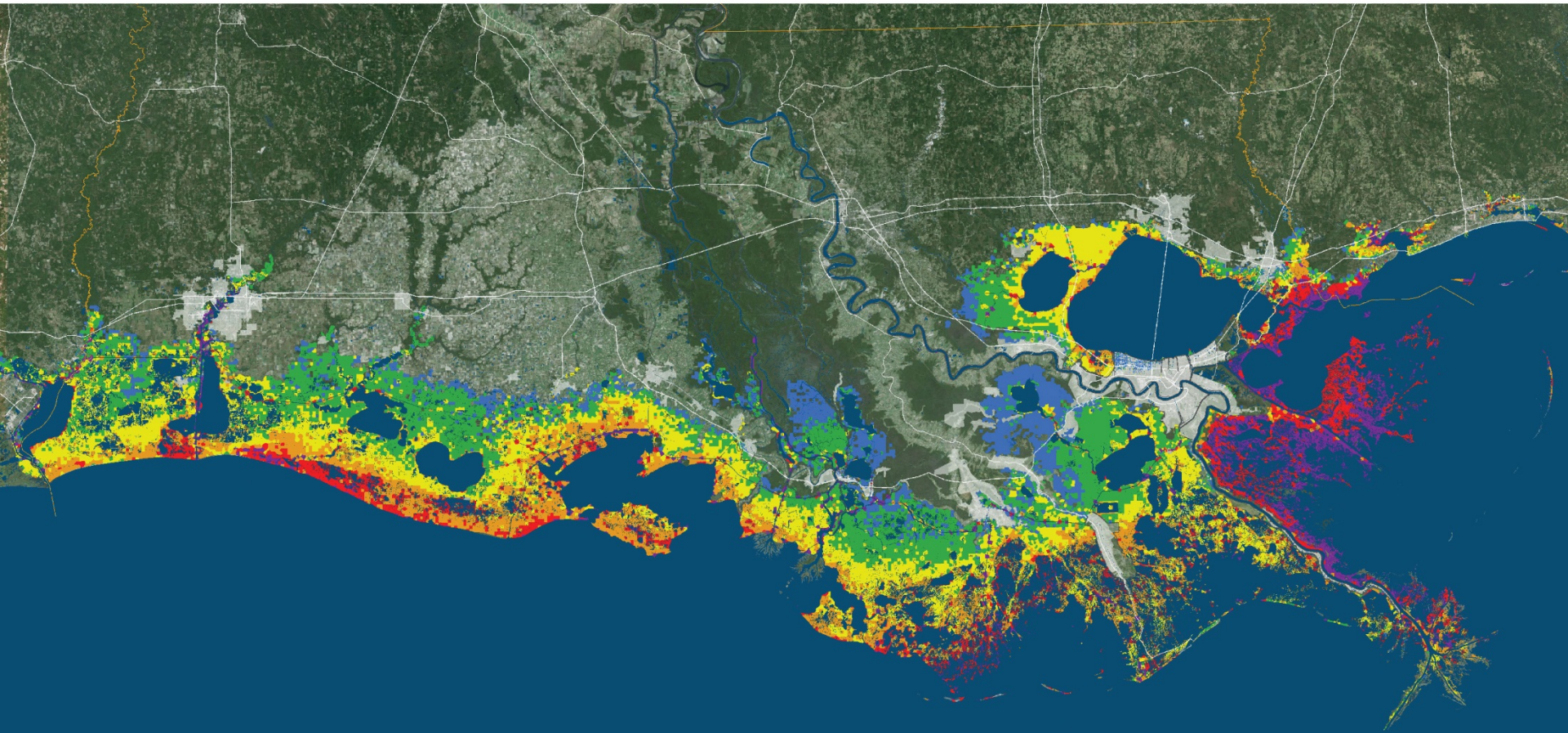
community based flood risk mapping





Coastal Louisiana- Current Flood Risk

100-year storm event



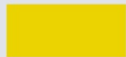
FLOOD DEPTHS (FT)



1-3 ft



4-6 ft



7-9 ft



10-12 ft



13-15 ft

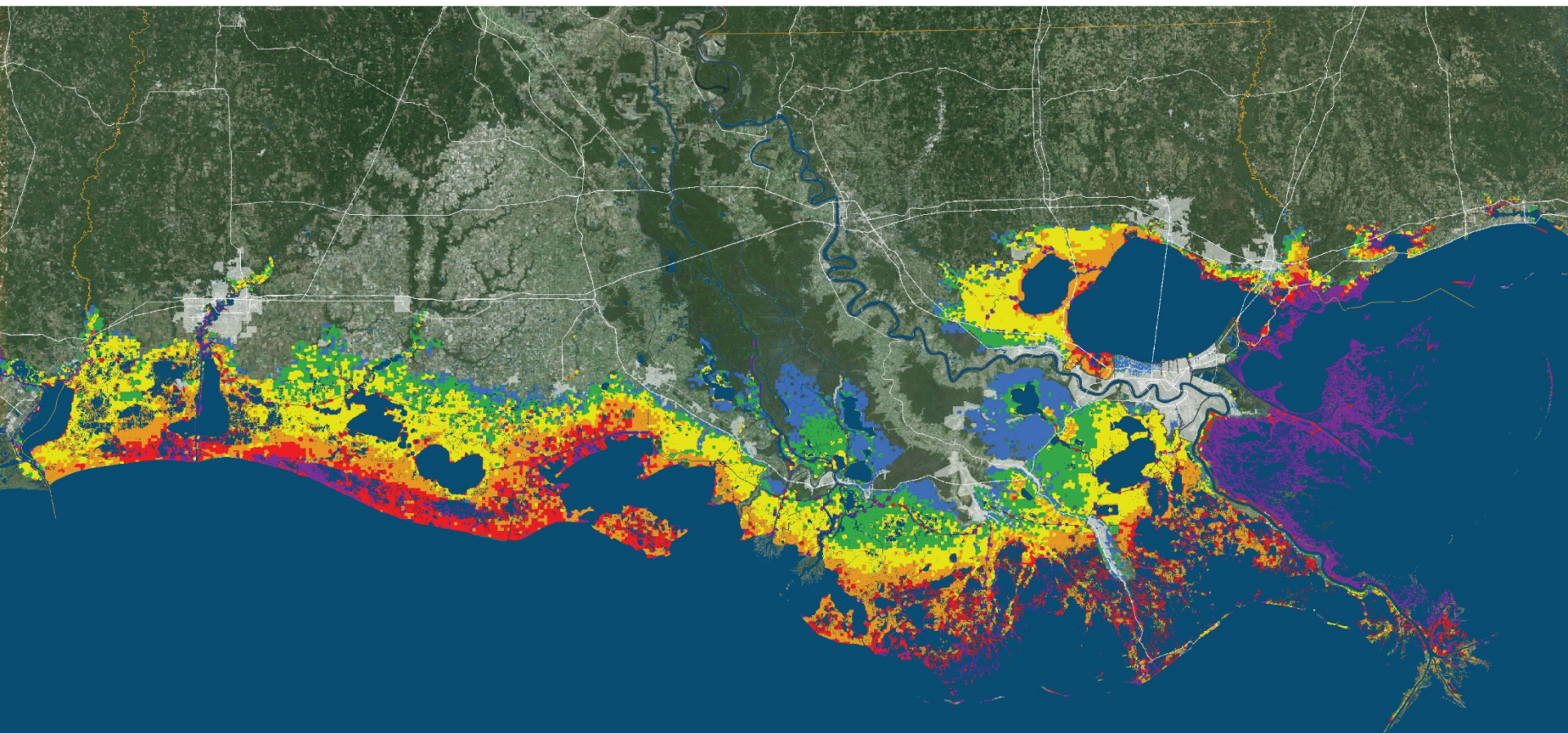


16+ ft



Coastal Louisiana- Future Flood Risk (Year 25)

100-year storm event



FLOOD DEPTHS (FT)



1-3 ft

4-6 ft

7-9 ft

10-12 ft

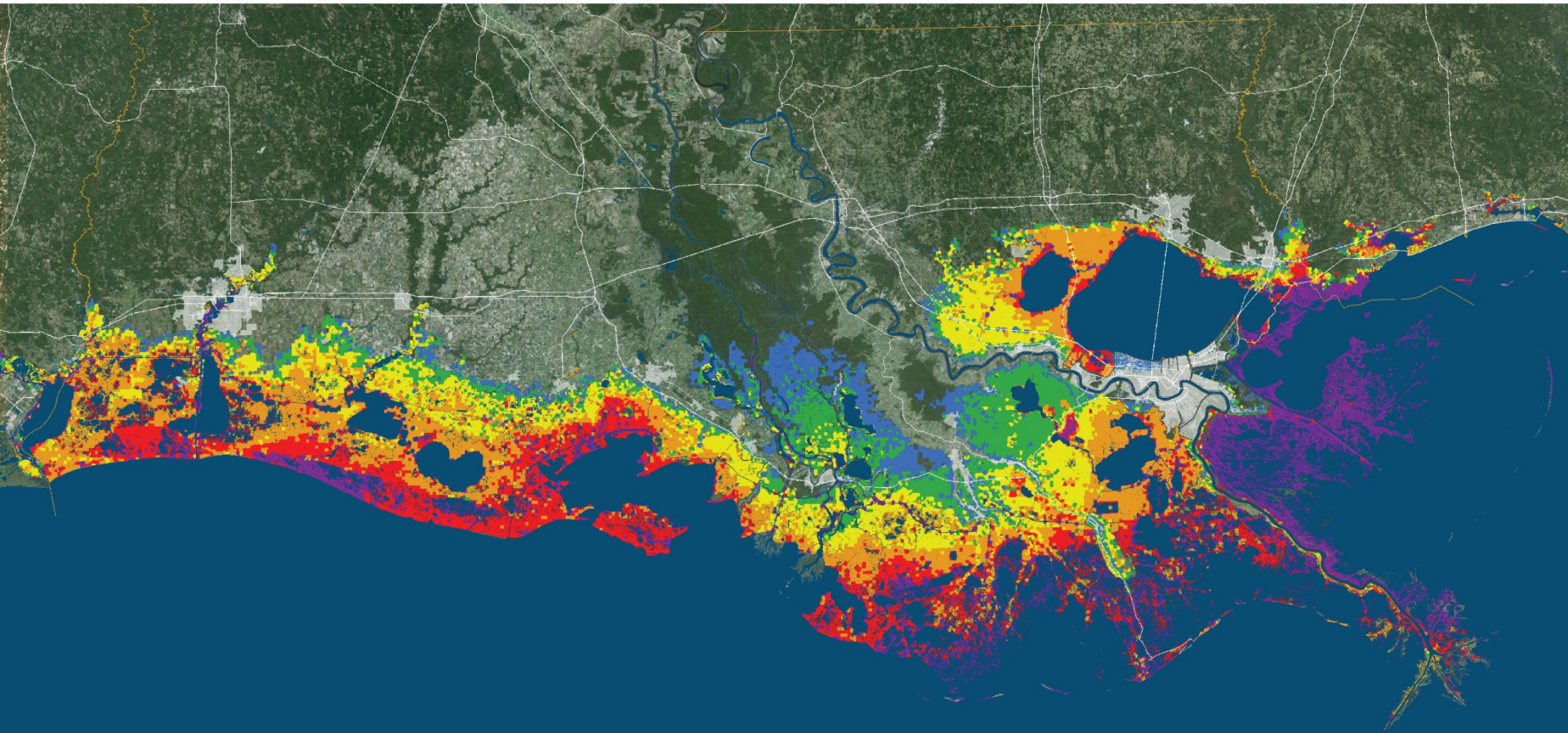
13-15 ft

16+ ft



Coastal Louisiana- Future Flood Risk (Year 50)

100-year storm event



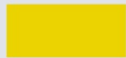
FLOOD DEPTHS (FT)



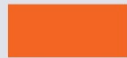
1-3 ft



4-6 ft



7-9 ft



10-12 ft



13-15 ft



16+ ft



Facilitated Discussion

Join Us!

A Community Conversation about flood risk & resilience

- CPRA Flood Risk Data Viewer
- Flood Risk and Resilience Program
- Interactive vulnerability mapping
- Local officials/floodplain managers
- Resources to reduce risk



Feb 16

Lafitte

Lafitte Multi-
Purpose Center

Feb 17

Houma

Terrebonne Parish
Public Library

Feb 23

Lake Charles

SEED Center

Feb 24

Mandeville

Castine Center

4:30-5:30 p.m. Open House

5:30-6:30 p.m. Presentation & Discussion

2017 Master Plan Timeline

Technical Analysis

Jan. 2014 –
Dec. 2016

Outreach and Engagement

Fall 2016 Regional
Community Meetings

January 2017
Master Plan Public
Meetings

Jan. 2017-Mar 2017
Public Comment
Period

Coastal Master Plan

January 2017
Draft Plan for
Public Review

April 2017
Plan Submitted to
Legislature

How can YOU get involved?

- Visit our website:
coastal.la.gov
 - Overview and technical information
- Request a presentation or meeting:
masterplan@la.gov
- Attend public and community meetings





THANK YOU

coastal.la.gov

Email us: masterplan@la.gov