



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

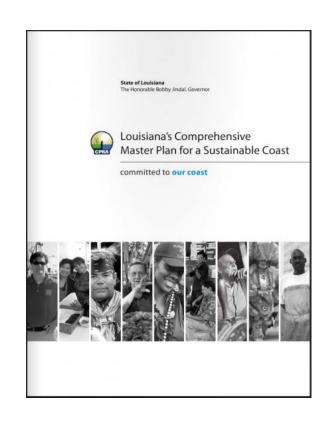
Building on 2012 Coastal Master Plan

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 polices

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:













Step 1:
Identify
Candidate
Projects

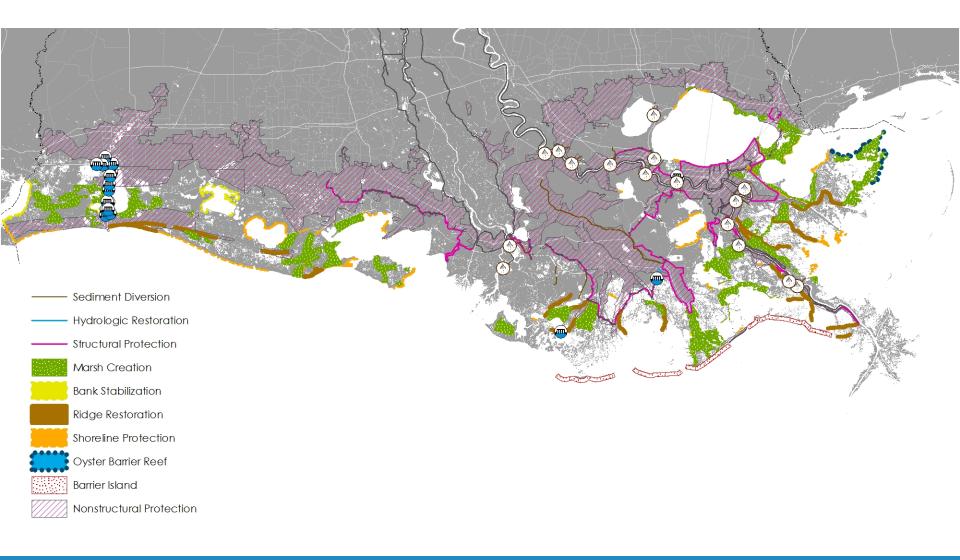
Step 2: Evaluate/ Model Projects

Step 3:
Compare
Projects &
Develop
Alternatives

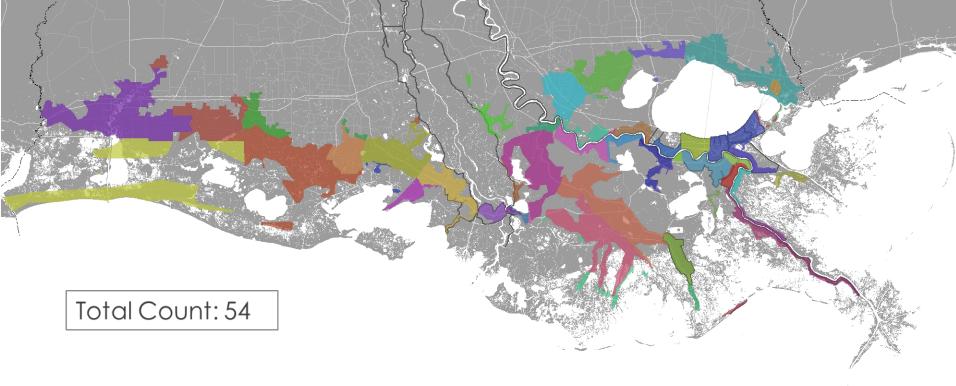
Step 4:
Model &
Compare
Alternatives

Step 5:
Develop
Draft & Final
Plan

2017 Candidate Projects Being Analyzed

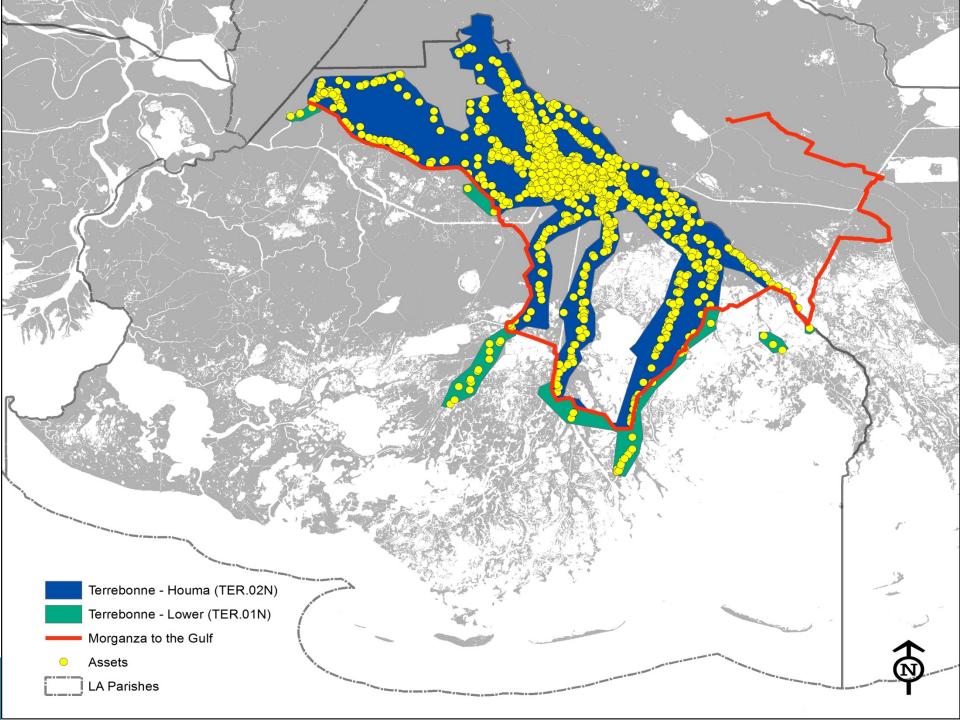


2017 Master Plan Nonstructural Project Areas



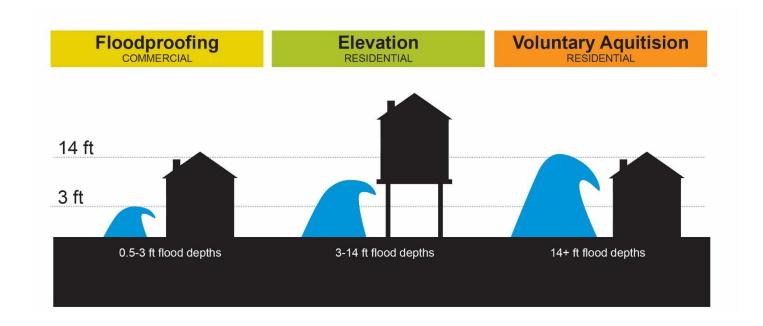
Project Areas divided by:

- 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

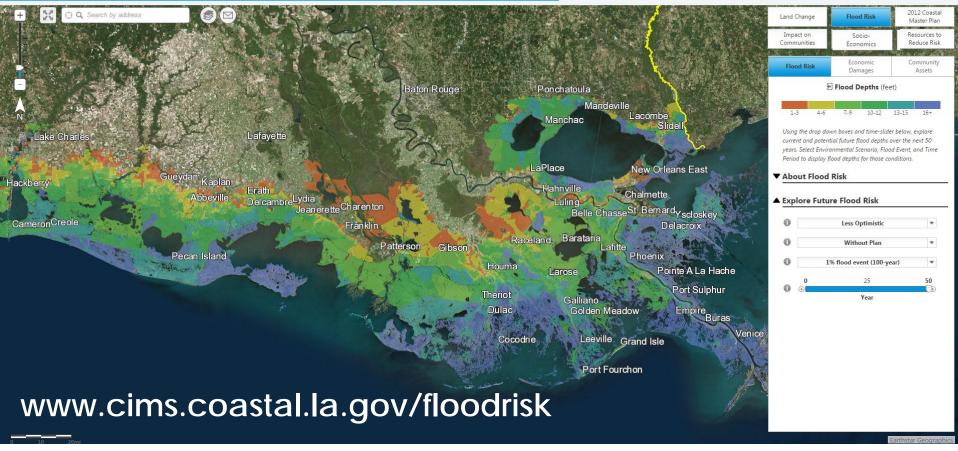
- Attachment E1 Flood Risk and Resilience Program Policy Recommendations
- Attachment E2 Parish Profiles
- Attachment E3 Nonstructural Modeling Results
- Attachment E4 Parish Applicant's Handbook

Flood Risk & Resilience Data Viewer

Current & Future Flood Risk



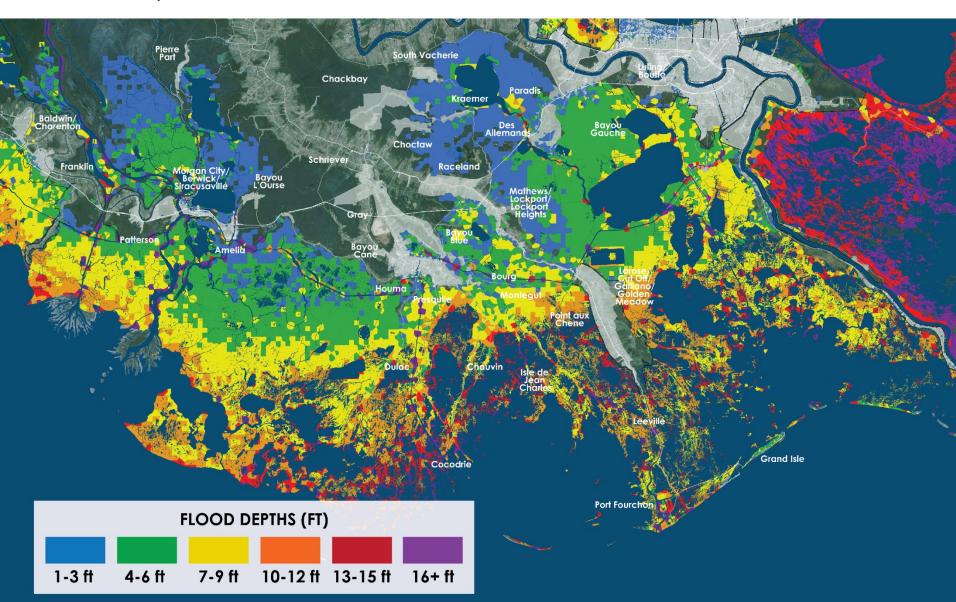
Coastal Protection and Restoration Authority



Results of Mapping Exercise

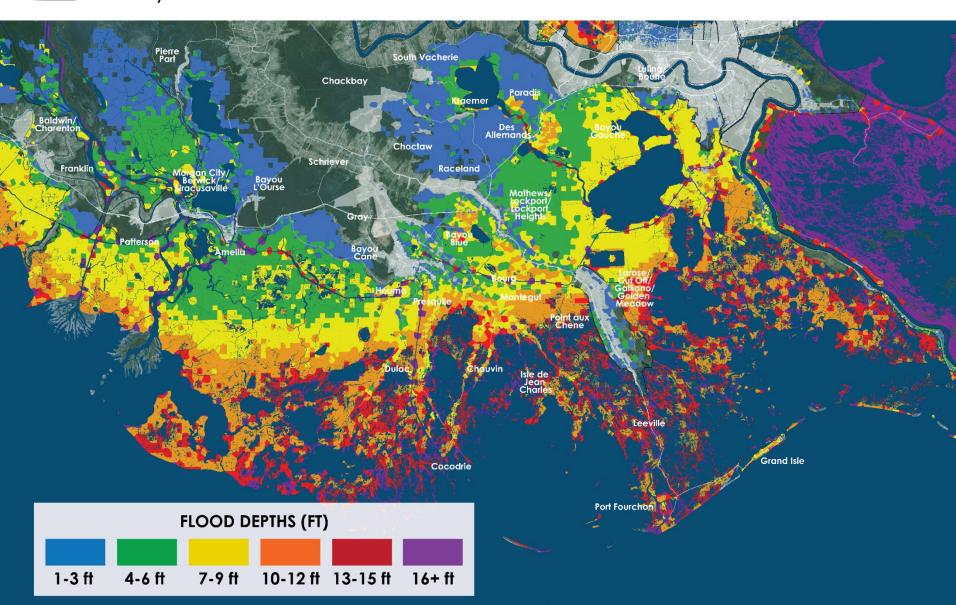


Houma & Bayou Region- Current Flood Risk



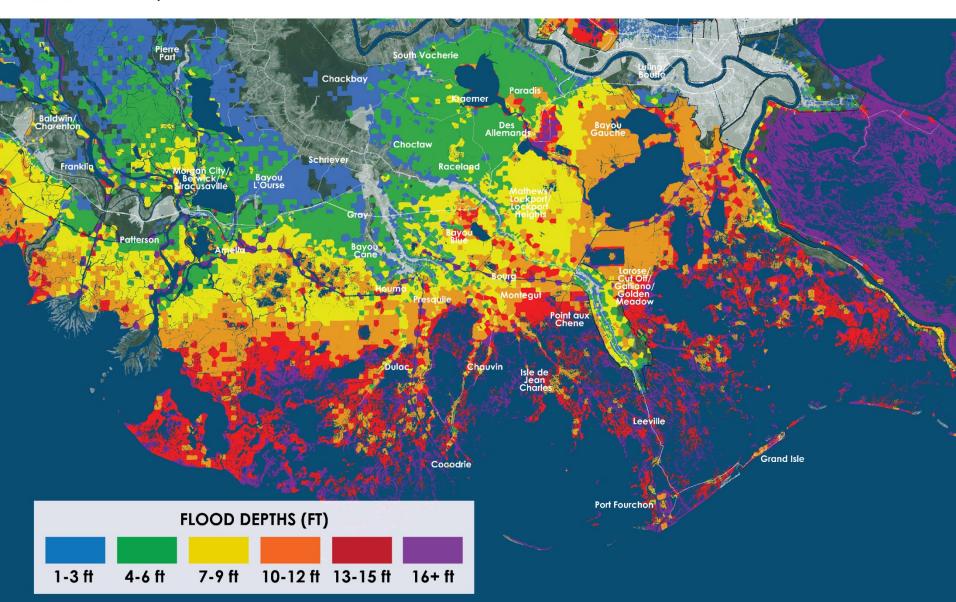


Houma & Bayou Region- Future Flood Risk (Year 25)



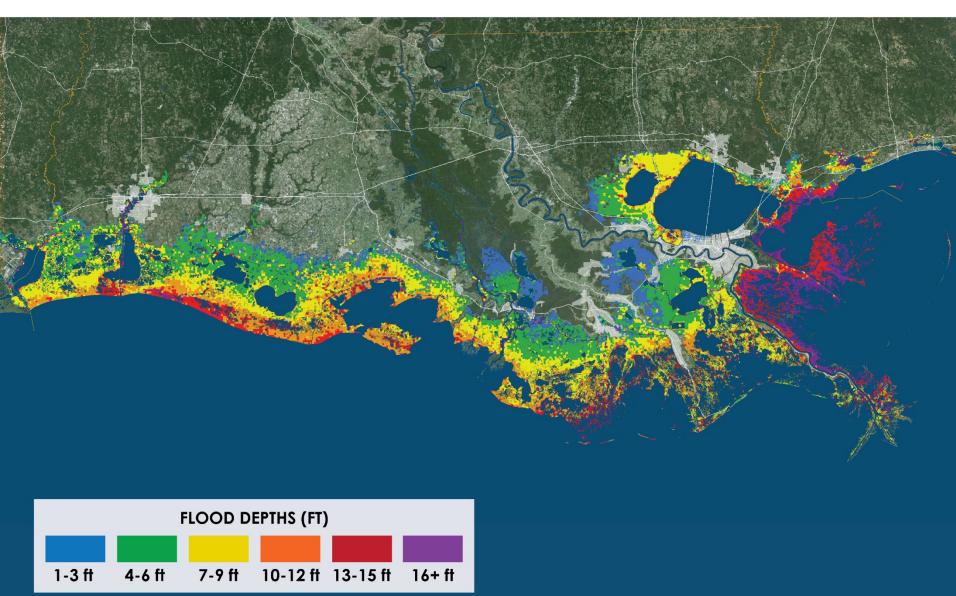


Houma & Bayou Region- Future Flood Risk (Year 50)



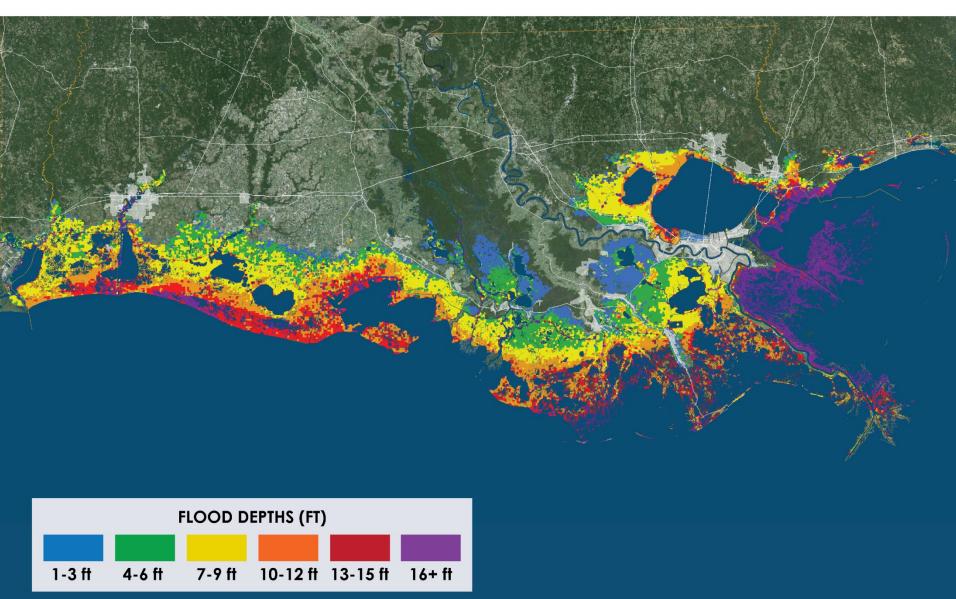


Coastal Louisiana- Current Flood Risk



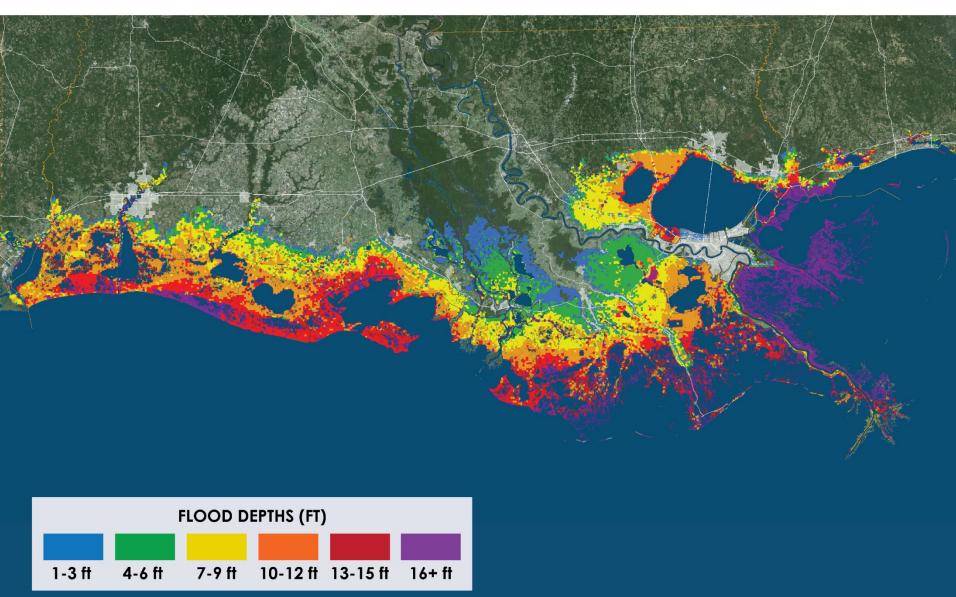


Coastal Louisiana- Future Flood Risk (Year 25)





Coastal Louisiana- Future Flood Risk (Year 50)





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 Mandeville

SFFD Center

Feb 24

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