

Terrebonne Parish Hazard Mitigation Plan Update and CRS Support

Initial Steering Committee Meeting

May 27, 2022



Agenda

- ▶ Introductions – Quick introductions from consulting staff and Steering Committee
- ▶ Focus and goals of this HMP update – Discussion of how this update will be different from previous updates
- ▶ Local updates
- ▶ Review of previous HMP
- ▶ Project schedule – identify future meetings, topics for meetings, and dates/times.
- ▶ Project outreach and stakeholder involvement
- ▶ Wrap up and confirm action items

Introductions - Consultant Team



Bill Bohn is a risk assessment specialist and Hazus expert with 20 years experience supporting communities and projects around the world with hazard risk assessments and mitigation projects. He has supported more than fifty hazard mitigation plans in the U.S. and has supported the States of Hawaii and Rhode Island with Climate Adaptation Plans. He is the lead author of FEMA 433 Using Hazus for Risk Assessment. He is authorized to teach all the FEMA Hazus courses and has been an instructor at the Emergency Management Institute for seventeen years.

Mr. Bohn will be the project manager and lead risk assessor for this project.

Jamie Caplan has over twenty years of emergency management experience that will directly benefit this project. This experience includes developing stakeholder engagement workshops and strategies for resiliency planning and hazard mitigation projects. Ms. Caplan has managed multiple large and small disaster planning and resiliency projects. Her expertise includes stakeholder involvement and outreach, developing collaborative risk management solutions and drafting hazard mitigation plans.

Ms. Caplan will be the Hazard Mitigation Planner for this project.



Darrin Punchard is an urban planning and resilience strategy consultant who has spent his career working with states and local communities to prevent natural hazards from becoming disasters. He has more than two decades of experience in hazard mitigation planning with specialized expertise in risk assessment, risk communication, benefit-cost analysis, and the development of actionable strategies for risk reduction. He has helped communities prepare floodplain management plans that have achieved among the highest credit scores in the nation under FEMA's Community Rating System (CRS). Darrin served as the lead consultant to FEMA on the development of the Local Mitigation Planning Handbook, the official guide for preparing local hazard mitigation plans in compliance with federal regulations.

Mr. Punchard will be the CRS Lead for this project.



Focus and Goal of this Update

- ▶ Hazus integration into risk assessment
- ▶ Maximize CRS points
- ▶ Update risk assessment and mitigation strategy

Hazus

Natural Hazards



Community Assets



Risk Analysis



Risk Assessment Outputs



Hazus Approach for the Parrish

- ▶ Modeling done at site level using building footprints and parcel data
- ▶ LiDAR used to get building heights
- ▶ Building footprints and heights used to get total square footage
- ▶ Occupancy from address points and site data provided (critical facilities, hotels/motels, apartments, etc.)
- ▶ Valuations from square footage, occupancy, and RS Means
- ▶ Elevations from elevation certificates
- ▶ Foundation types from neighborhood sampling using Google StreetView

Data Collected

- ▶ Building footprints
- ▶ Address points
- ▶ Critical facility data
- ▶ Flood hazard data
- ▶ LiDAR
- ▶ Bridge, road, rail data
- ▶ Elevation certificates

Community Rating System (CRS)

- ▶ Launched by FEMA in 1990
- ▶ Voluntary, *incentive-based* program that recognizes, encourages and rewards community floodplain management activities that exceed minimum standards of the National Flood Insurance Program (NFIP)
- ▶ Flood insurance rates for private properties are *discounted* to reflect the reduced flood risk resulting from community actions
- ▶ More than 1,500 communities participate nationwide

CRS Credits, Classes, and Discounts

Credit Points	CRS Class	Premium Discount
4,500+	1	45%
4,000–4,499	2	40%
3,500–3,999	3	35%
3,000–3,499	4	30%
2,500–2,999	5	25%
2,000–2,499	6	20%
1,500–1,999	7	15%
1,000–1,499	8	10%
500–999	9	5%
0–499	10	0%

CRS for Terrebonne Parish

- ▶ Joined in 1992
- ▶ Currently a **Class 7** community
 - ▶ Policyholders in the SFHA currently receive a **15%** discount on NFIP premiums; policyholders in the non-SFHA receive a 5% discount (*annual savings of ~\$900k on flood insurance premiums*)
 - ▶ Under Risk Rating 2.0 these discounts will be applied to **ALL** policies
- ▶ **Activity 510: Floodplain Management Planning**
 - ▶ ISO's courtesy review of the draft 2020 HMP Update = 198 points; but capped at 50 points for missing Step 7
- ▶ New Class 8 prerequisite for freeboard (at least 1 foot) for all residential buildings

Local Update

- ▶ Feedback from most recent storm
- ▶ Flood map update

Review of Previous HMP

- ▶ Prevalent hazards selected:
 - ▶ Levee/dam failure
 - ▶ Flooding (coastal surge, rainfall, riverine)
 - ▶ Hurricanes and coastal/tropical storms
 - ▶ Saltwater intrusion
 - ▶ Tornadoes
 - ▶ Subsidence (coastal and within forced drainage areas)
 - ▶ Coastal erosion
 - ▶ Lightning

Review of Previous HMP

- ▶ Critical facilities identified
 - ▶ Hospitals/Healthcare providers
 - ▶ Schools
 - ▶ Police stations
 - ▶ Fire stations
 - ▶ Powerplants
 - ▶ Sewer
 - ▶ Potable water
 - ▶ Emergency Operations Center
 - ▶ Government offices

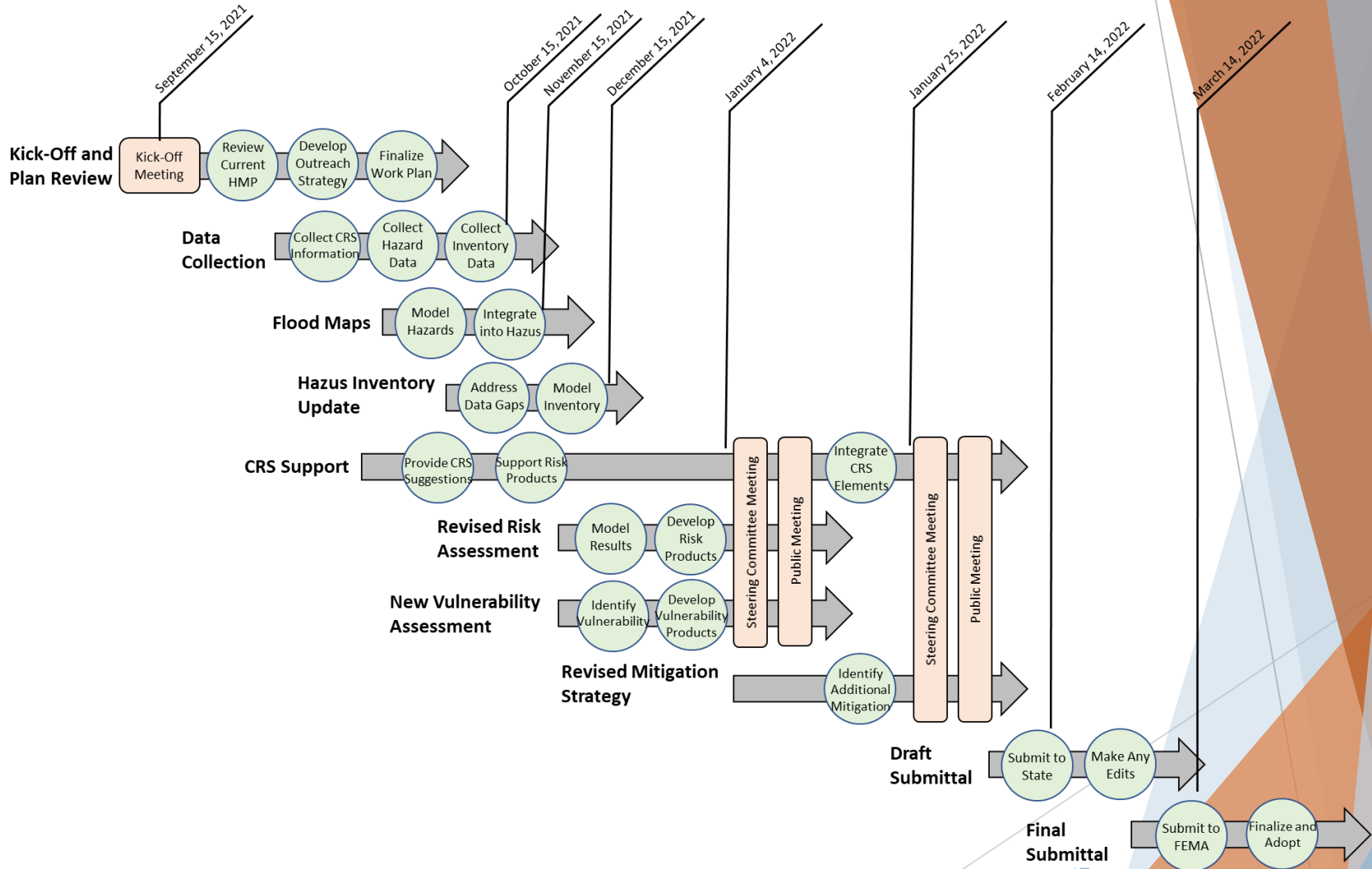
Review of Previous HMP

- ▶ Goal 1: Identify and pursue preventative measures that will reduce future damages from hazards
- ▶ Goal 2: Enhance public awareness, public education, and understanding of disaster preparedness
- ▶ Goal 3: Reduce repetitive flood losses in the parish
- ▶ Goal 4: Facilitate sound development in the parish to reduce or eliminate potential impacts of hazards
- ▶ Goal 5: Set a uniform standard of protection incorporated into all activities

Proposed Tasks

- ▶ Data Collection
- ▶ Flood Map Integration
- ▶ Hazus Inventory Update
- ▶ CRS Support
- ▶ Revised Risk and Vulnerability Assessment
- ▶ New Risk and Vulnerability Assessment
- ▶ Revised Mitigation Strategy
- ▶ Submittals

Schedule



Project Outreach and Stakeholder Involvement

- ▶ Hazard Mitigation Steering Committee
 - ▶ Provide supporting data or information
 - ▶ Assist in the identification and prioritization of mitigation actions
 - ▶ Review and comment on the draft plan
 - ▶ Approve final draft for submission to State
- ▶ Public outreach
 - ▶ “Ground-truthing” - local knowledge
 - ▶ Consensus building
 - ▶ Hazard Mitigation Committee
 - ▶ Public meetings and surveys
 - ▶ Stakeholder meetings

Next Steps and Questions

- ▶ Bill Bohn
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