

# Update from **Consultant Team**

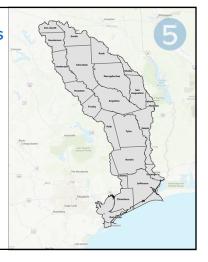
**Neches Regional Flood Planning Group** 

October 14, 2021

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### **Regional Flood Plan Updates**

- Task 3B: Flood Management Goals
- Task 4A: Flood Mitigation Needs
- Task 4B: FMPs, FMEs, FMPs .
- **RFPG Member Action Items**

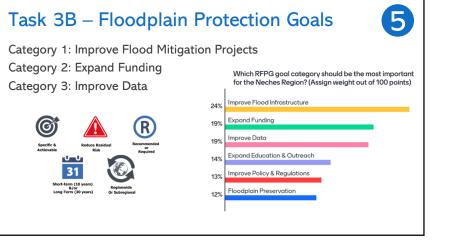


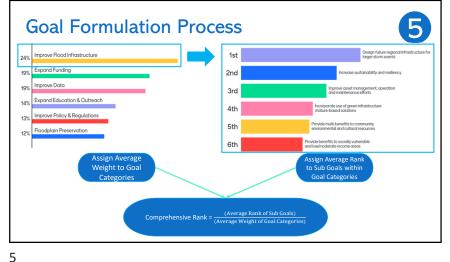
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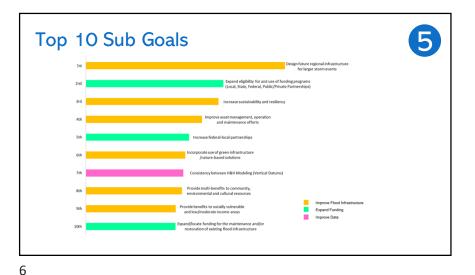
### Task 3B – Significance of Goals

- 1. RFPG to identify flood mitigation and floodplain management goals along with target years by which to meet those goals.
- 2. Guides the overall approach of identifying, evaluating, and recommending FMEs, FMSs, and FMPs.
- 3. By establishing S.M.A.R.T. goals, allows for RFPG to track progress towards overall goal of RFP:

"To protect against the loss of life and property"







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## Category 1 – Improve Flood Infrastructure

### RFPG Input

 Reduce existing flood risk and mitigate future flood hazard to life and property by constructing new infrastructure projects.

Goal ID	Goal	Short-Term Goal	Long-Term Goal
1A	Increase the number of regional infrastructure projects designed for larger storm events.	Initiated	Maintained

## Category 1 – Improve Flood Infrastructure 5

#### RFPG Input

• The preservation and restoration of the natural and beneficial resources within existing floodplains should be considered in the development of flood risk reduction projects.

Goal ID	Goal	Short-Term Goal	Long-Term Goal
1B	By 2033, RFPGs will consider and incorporate nature-based practices and floodplain preservation in their flood risk reduction projects. (LID, FEMA Nature-Based Solutions guide)	Initiated	Maintained

## Category 1 – Improve Flood Infrastructure

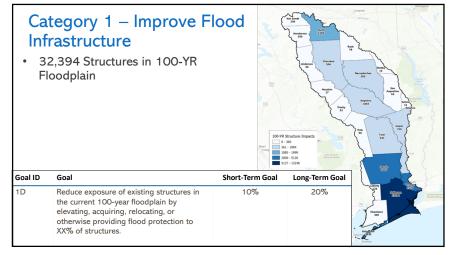


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- RFPG Input
  - Impacts to critical facilities can impact a community's ability to respond to and recover from flood related events
- 368 Critical Structures located within 100yr (Lower Neches)
- Critical Facilities
  - Emergency Facilities
    Energy Producing Facilities
  - Medical Facilities
    Schools
  - Public Infrastructure

Goal ID	Goal	Short-Term Goal	Long-Term Goal
1C	Reduce the number of critical facilities in the 100-year floodplain by XX%.	15%	25%

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# Category 2 – Expand Funding

- RFPG Input
  - Entities within the region can implement more capital improvement/flood mitigation projects if more grant funding from State and/or Federal sources can be secured.

Goal ID	Goal	Short-Term Goal	Long-Term Goal
2A	Increase the amount of State/Federal funding for flood mitigation projects and strategies awarded within the Neches Region by XX%.	25%.	75%.

## Category 2 – Expand Funding

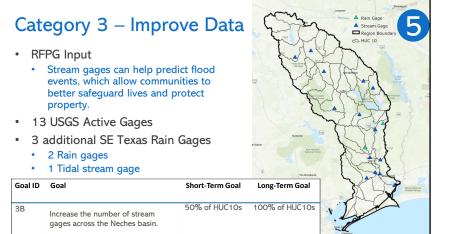
#### RFPG Input

• By establishing a dedicated funding source for the operation and maintenance of existing storm drainage systems, communities and entities within the region can expect to see an increase in the sustainability and resiliency of their flood infrastructure.

Goal ID	Goal	Short-Term Goal	Long-Term Goal
2B	Increase percentage of communities with dedicated funding sources for operations & maintenance for storm drainage systems to XX% of communities.	50%	75%

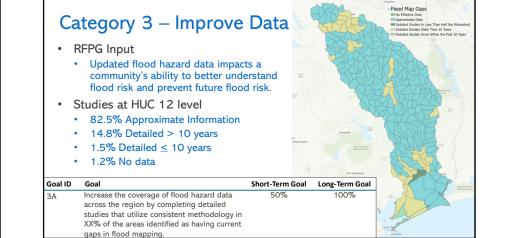
### 5 Category 2 – Expand Funding RFPG Input • The implementation of a stormwater utility charge can provide a source of funding and/or capital for communities and districts to execute significant maintenance items and capital improvement projects. Goal ID Goal Short-Term Goal Long-Term Goal XX% of the region's population is part of 2C an entity that has a dedicated drainage charge, fee, or other continuous funding 50% mechanism for the maintenance and/or restoration of flood infrastructure.





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Goal ID	Goal	Short-Term Goal	Long-Term Goal		
ЗC	Develop and maintain critical infrastructure database.	Initiated	Maintained		

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## Task 3B – Floodplain Protection Goals

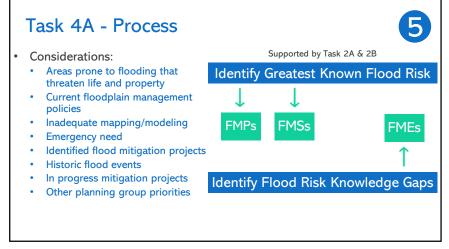
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5 Task 4A & 4B Overview <u>4A</u> E B 4B Flood FMEs FMSs FMPs Mitigation Needs Analysis Identify areas where the greatest flood risk Identify and evaluate potential: knowledge gaps exist FMEs – Flood Management Identify areas of the Evaluation greatest known flood FMSs – Flood Management Strategy FMPs - Flood Mitigation Project

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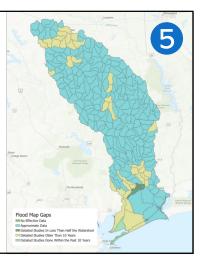
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### Task 4A – Flood Risk Knowledge Gaps

- Identify knowledge gaps and areas with emergency need
- "Gap" defined by lack of data or outdated study
  - 13.6% of region has outdated detailed studies (older than 10 years)



# Task 4A – Flood Risk and Mitigation Needs Analysis

- Assign ranking of HUC12s based on:
  - Buildings in 100-YR Floodplain
  - Low Water Crossings
  - Existing Critical Facilities
  - Road Flooding Locations
  - Community NFIP Participation
  - Social Vulnerability Index (SVI)
  - Adequate Flood Risk Data
  - Reported Flood Concerns
  - Historical Flood Locations

