RESILIENCE PLANNING STUDIES

Ryan Slattery, Senior Advisor
Mayor’s Office of Recovery
TTI Committee, November 2021
HURRICANE HARVEY AND ITS AFTERMATH

52 inches of rain in a 5-day period resulting in over 300,000 households impacted and over $2.5B in damaged city facilities and infrastructure.
RECOVERY PROGRAMS

$300M
RESILIENCE PROJECTS
FEMA GRANTS

$2B
CITY FACILITIES & INFRASTRUCTURE
FEMA PUBLIC ASSISTANCE

CDBG/MI
NEIGHBORHOOD DRAINAGE
HUD INFRASTRUCTURE

$835M
BUILD IT FORWARD
HUD HOUSING

8 programs
<table>
<thead>
<tr>
<th>FEMA</th>
<th>FEMA</th>
<th>HUD</th>
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<tbody>
<tr>
<td>HMGP</td>
<td>Public Assistance</td>
<td>CDBG-DR 17</td>
<td>CDBG MIT</td>
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<tr>
<td>4 projects</td>
<td>City assets &amp; facilities</td>
<td>Housing</td>
<td>Direct Allocation, State Program Competitions</td>
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- Multifamily Program
- Small Rental Program
- Homebuyer Assistance Program
- Buyout Program
- Public Services
- Economic Revitalization Program

**Planning**

- Housing Administration
$835\text{ M available for Hurricane Harvey Recovery (CDBG-DR 17 program) through the Texas GLO, from HUD.}$

Local Action Plan released allocating $23\text{ M for planning efforts}$

- Project Awarded to Consulting Team
- Council Approval
- Project Underway

Project Completed

We are here!
FUNDING MECHANISM & ADMINISTRATION

City of Houston

HCDD
Funding and Compliance

Project Manager
HPC, HPW, Recovery, Resilience & Sustainability

Support
Recovery & Resilience Offices
Legal
SPD

GLO

Selected Consultant
# RESILIENCE PLANNING STUDIES THROUGH CDBG DR 17 PLANNING FUNDING

<table>
<thead>
<tr>
<th>Sidewalks</th>
<th>Hazard Mitigation Plan</th>
</tr>
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<tbody>
<tr>
<td>✔️ 8</td>
<td>✔️ 58</td>
</tr>
<tr>
<td>Make our streets 100% safe for all Houstonians.</td>
<td>Leverage disaster recovery efforts to accelerate the implementation of resilience measures.</td>
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<tr>
<td>✔️ 50</td>
<td></td>
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<tr>
<td>Enable Houstonians to make mobility choices that improve well-being and reduce the cost of living.</td>
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<tr>
<th>Construction Codes</th>
<th>Neighborhood Resilience Plans</th>
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<tbody>
<tr>
<td>✔️ 36</td>
<td>✔️ 12</td>
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<tr>
<td>Advance and modernize building codes and standards.</td>
<td>Support equitable neighborhoods through community planning and programs.</td>
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<tr>
<th>Stormwater Master Plan</th>
<th>Lily Pads Plan</th>
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<tbody>
<tr>
<td>✔️ 27</td>
<td>✔️ 17</td>
</tr>
<tr>
<td>Advance research and technology to improve water management.</td>
<td>Develop “Lily Pads” to serve as Neighborhood Resilience Hubs.</td>
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<thead>
<tr>
<th>Buy In / Buy Out Plan</th>
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<tr>
<td>✔️ 25</td>
<td></td>
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<tr>
<td>Make room for water.</td>
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Planning Studies

**Construction Code**

Assist with:
- code review, and
- adoption process, and
- develop a
  - modernized,
  - resilient, and

accessible City Construction Code

through the consolidation of references, amendments, and ordinances, with an emphasis on incorporating (1) resilient construction, (2) accessibility to those codes and (3) practical application of those codes and standards.
Lily Pads

Create a plan for “Lily Pads” across Houston that are intended to operate before, during, and after disturbances, making them steady-state assets for local emergency management and city officials.

Scope:

Resilience Hub/Lily Pad **Background** Evaluation
Stakeholder and Community **Engagement**
**Development** of Houston Lily Pad Plan, &
Houston-Specific Lily Pad Implementation Tool Kit
Bayous & Watersheds

Houston has 22 different bayou systems and watersheds.
There are 5,595 buildings in the floodway. There are roughly 162,000 buildings in the 236 sq. mi. of mapped flood plains that cover the Bayou City.
Buy-in/Buy-out

Develop a comprehensive Buy-In/Buy-Out Plan for the City of Houston, facilitating various options for Houstonians to move out of the Houston floodways or floodplains impacted by major storms.

Scope:

Baseline **Analysis** Report and Inventory
Stakeholder and Community **Engagement**
Review Performance Criteria and Identify Barriers and Challenges
**Draft** Plan Concept and Strategies
**Develop** Final Plan and Strategies
**Issue** Final Report
SCHEDULE AND NEXT STEPS

- **Consultant Selection**
- **TTI Presentation 11/04**
- **Contract Negotiations**
- **RCA and Council Action TBD**
- **Project Kickoff**

**OCTOBER**

**NOVEMBER**

**DECEMBER**

**JANUARY**

**FEBRUARY**

We are here!

2021

2023
Thank You

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