

# **HURRICANE HARVEY AND ITS AFTERMATH**



- August 2017: Rainfall totals from Hurricane Harvey approaching 50 inches throughout the greater Houston area results in widespread flooding.
- Widespread damage in many areas including the condition of the sidewalks throughout the city.
- CDBG DR (Disaster Recovery) 17 funding includes \$23M for planning activities. 6 Resilience Planning Studies, 1 modeling effort, 1 Hazard Mitigation Plan, and 3 Housing planning support initiatives
- A sidewalks planning project, but looking broadly at the interconnectedness between housing, mobility, sidewalks, and drainage.

# **MILESTONES**



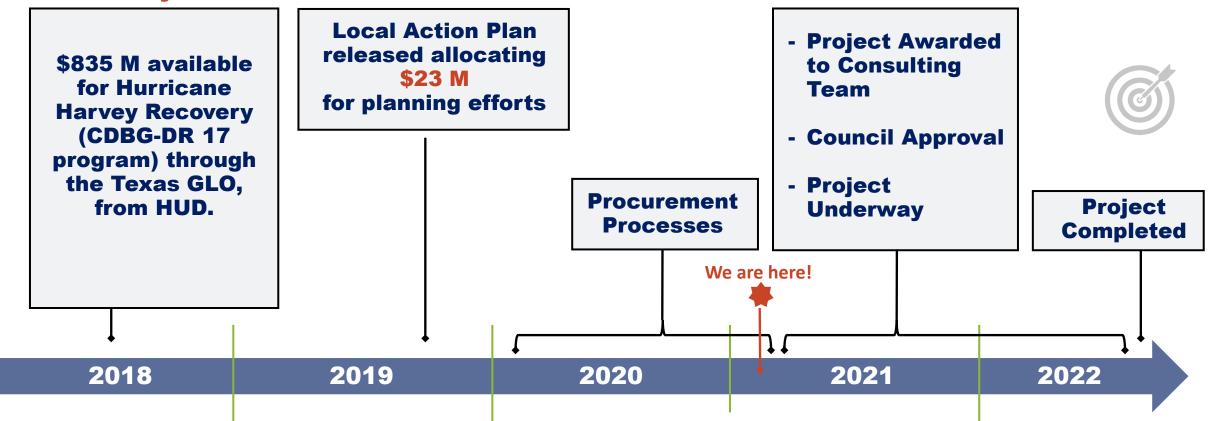




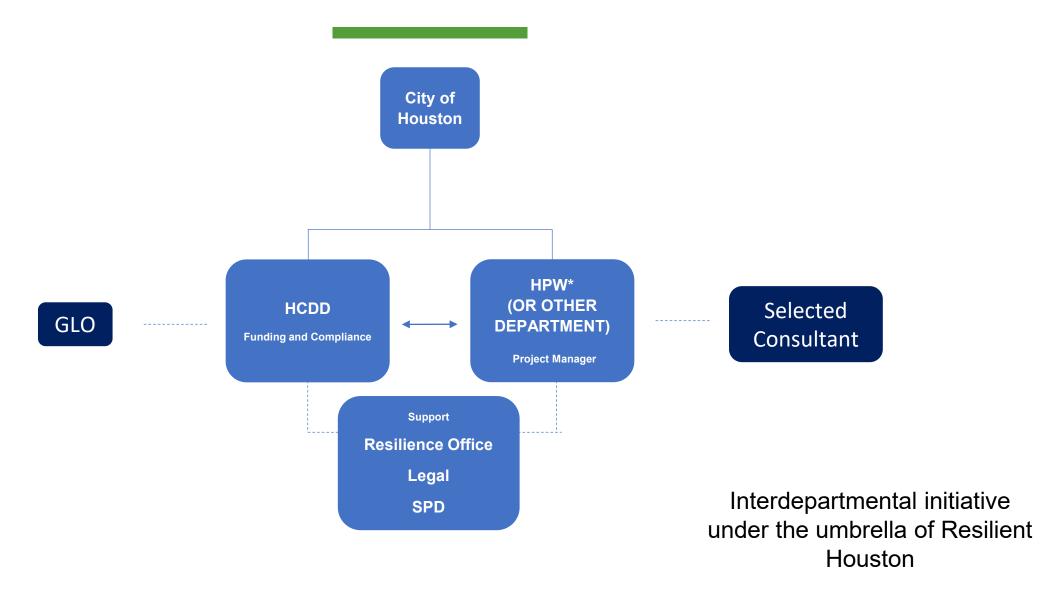




#### February 2018



# **FUNDING MECHANISM & ADMINISTRATION**



# RESILIENCE PLANNING STUDIES THROUGH CDBG DR 17 PLANNING FUNDING

#### **Sidewalks**



8 |

Make our streets 100% safe for all Houstonians.



50

Enable Houstonians to make mobility choices that improve well-being and reduce the cost of living.

## **Building Codes**



36

Advance and modernize building codes and standards.

#### **Stormwater Master Plan**



27

Advance research and technology to improve water management.

Equity
Health
Climate
Built Environment
Economy

# **Hazard Mitigation Plan**



5

Leverage disaster recovery efforts to accelerate the implementation of resilience measures.

## **Neighborhood Resilience Plans**



13

Support equitable neighborhoods through community planning and programs.

## **Lily Pads Plan**



17

Develop "Lily Pads" to serve as Neighborhood Resilience Hubs.

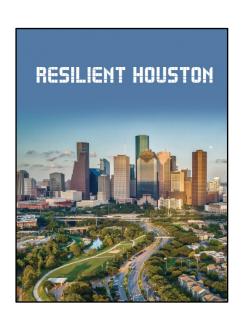
## **Buy In / Buy Out Plan**



25

Make room for water.

# RESILIENT HOUSTON AND MAYOR'S STREET REHAB INITIATIVE



Resilient Houston provides a framework for collective action for every Houstonian...

...links existing efforts with new ones that will collectively work to protect Houston against future disasters—from hurricanes to extreme heat waves—and chronic stresses such as aging infrastructure, poor air quality, and flooding.

#### Goal

Houstonians will see a noticeable improvement in streets by 2024

## **Approach**

Increase transparency, accountability & rehabilitation frequency, **including sidewalks**, curbs, gutters, inlets and ramps next to projects

"The streets are in bad condition and need panel replacements or need to be totally repayed. I have instructed Public Works to present to me within 60 days a systematic plan that identifies those streets that need to be seriously rehabilitated, a potential funding source and an estimated timeline for work to commence. You should see a noticeable improvement by the end of this term."

- Mayor Sylvester Turner, 2020 Inaugural address

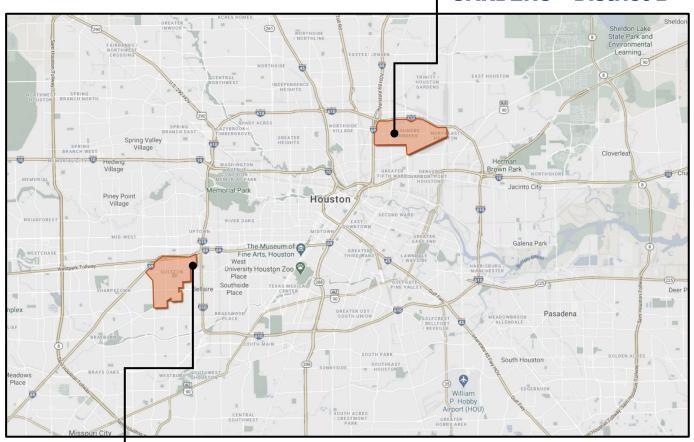
# **PLANNING STUDY OBJECTIVES**



- 1. Kashmere Gardens and Gulfton communities that were impacted by Harvey and have significant mobility and drainage challenges to develop a standard for how to address curb and gutter and roadside ditch neighborhoods.
- 2. Replicate and scale solutions from the two communities into a **City-wide toolkit**.
- 3. Develop implementation guidelines which include funding, policy implications, and timeline.
- 4. Advance the goals of *Resilient Houston* and aim to provide information to improve the sidewalks program.

# **PROJECT LOCATIONS**

# KASHMERE GARDENS – District B



#### 1. Focused Study Areas:

- Kashmere Gardens
- Gulfton

#### 2. Toolkit

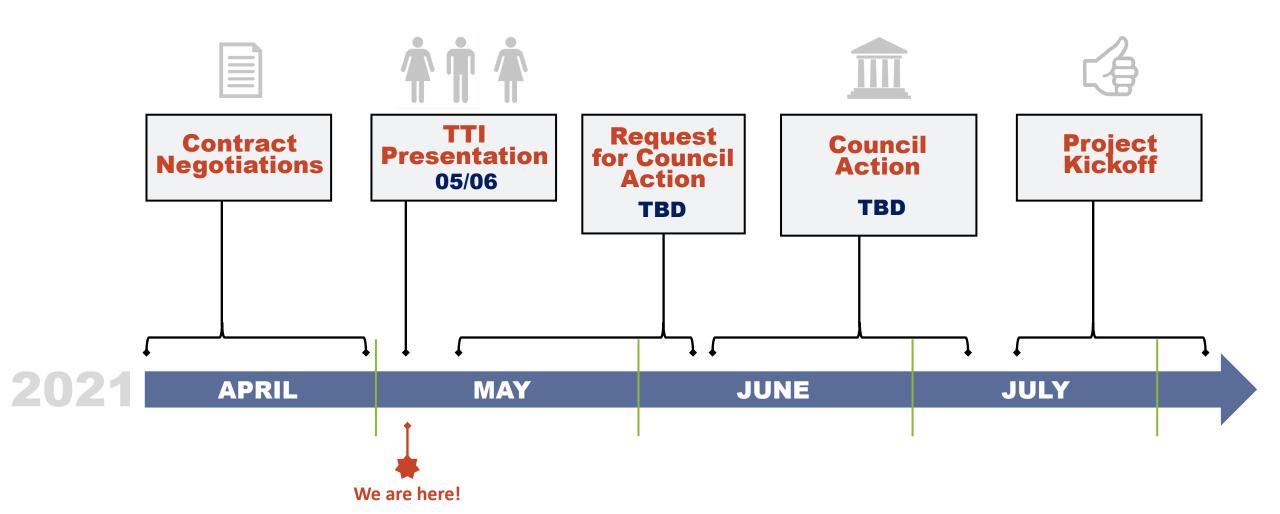
City-wide

**GULFTON - District J** 

# **PROJECT SCOPE**

- Task 1: Baseline Analysis and Inventory
  - Leveraging previous planning efforts and data collection to develop technical strategies and implementation mechanisms that advance neighborhood scale drainage and mobility solution to align with existing programs
- Task 2: Stakeholder and Community Engagement
- Task 3: Sidewalks Program
  - Goals; Policies; Technical Specifications; Guidelines; Alternatives and Recommendations for Kashmere Gardens and Gulfton
- Task 4: Toolkit and Technical Solutions
  - Potential technical and creative solutions, including alternatives for materials, design, construction, and maintenance with an emphasis on multi-functional design that is replicable City-wide.
- Task 5: Implementation Strategy
- Task 6: Project Management

# **SCHEDULE AND NEXT STEPS**



# **RESILIENCE PLANNING STUDIES**

#### FUNDED THROUGH DISASTER RECOVERY TO BUILD A MORE RESILIENT HOUSTON

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