This disaster was unprecedented; so will be the recovery effort

Hurricane Harvey is the worst rainfall disaster in US history

Harvey is a 1,000-year flood event unprecedented in scale

Harvey is one of the costliest disasters in U.S. history, and most of the victims have no flood insurance

- Major News Outlets, Aug 2017

Historic flooding: 2.6K miles of City roads under water

Homes hit hard: >311,000 households impacted

Source: HoustonRecovers.org, New York Times
We’re building forward, not just building back

The mission of the recovery effort is to secure and deploy disaster resources to...

• accelerate Houston’s recovery,
• strengthen Houston resilience, and
• enhance the quality of life and economic vitality of Houston and its people.

“This is a defining moment for the city of Houston. It's not enough for us just to rebuild in the same way, in the same place. If we do that, then we will miss the mark and quite frankly we will miss the opportunity this storm has afforded us.”

-- Mayor Turner

Source: Recovery organization interviews
We’ve assembled a team geared to managing a multi-billion dollar recovery

1 Federal incl. legislative, HUD, FEMA, relevant agencies, etc; State including Governor Abbott, Texas Recovery lead J Sharpe, etc; County includes Commissioners, Judge Emmett, etc.
Moving on multiple fronts

- Funding
- Infrastructure & Flood Mitigation
- Housing
- “Houston Heroes” Volunteer Program
- Neighborhood Resilience Program
Recovery spending plan: Funding *uncertainty* drives planning complexity

<table>
<thead>
<tr>
<th>Funding Sources</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>Allocated</th>
<th>Requested</th>
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<td>Q4</td>
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Note: These are the sources of recovery funding managed by the City of Houston. These need to be coordinated and aligned with housing, resilience and flood mitigation projects managed by the Army Corps of Engineers, Harris County Flood Control District, other regional jurisdictions, private foundations and commercial capital.
Multiple strategies for securing, stretching, deploying resources

**Scale & Choices**

- **Funding need is massive:** “Fair share” of federal DR funds critical (TX state advocacy to fund for success)
- **Even then, there will not be enough money** for everything – need to make hard choices in face of high uncertainty (policy matrix, planning for range of outcomes)
- **Blending spending priorities with policy choices.** Flood Plain designation, buyouts, building codes, resilience planning to protect homes, businesses and city assets.
- **Seeking and deploying innovative technologies** to enhance modeling, mitigation, early warning, etc.

**Negotiation & Compliance**

- **Damage Assessment ongoing:** Conducting detailed inspections with FEMA
- **Critical to ensure reimbursement requirements** are met (via MPM performance, procurement process)
- **Working with FEMA on intelligent strategies for resilience, versus simple repairs (25% of projects)**
- **Collaborating with county and state on major infrastructure projects** (Reservoir, bayou projects, Lake Conroe & SJRA, Coastal Spine, infrastructure consolidation, etc)

**Cash flow & Timing**

- **Matching funding inflows and outflows** will be a challenge (request for revolving loan from State)
- **Goal to ensure hammers swinging** as soon as money arrives (contracts and policy choices in place in timely fashion)
- **Working with GLO, FEMA and HUD to accelerate arrival of funds** (Direct allocation and/or MOD)
Neighborhood Resilience Program to accelerate recovery and strengthen resilience by providing...

More, Better, Faster Recovery Services for impacted Houstonians

Stronger, Safer, Smarter Houston neighborhoods

...In a way that respects the diverse cultures, circumstances and needs of Houston’s Neighborhoods
Create a “largest-ever” Volunteer Program that brands Recovery

A stretch goal of 10 million volunteer hours

- Organized by Neighborhood
- Efficient
- Leverage/assist non-profits
- ~6 month program

- Millions of volunteer hours targeted at high-need neighborhoods
- Ensures CoH’s FEMA “A” and “B” 10% match requirement fulfilled
- Recovery Office working with FEMA to expand match-eligible programs

Source: Recovery Office interviews