Hurricane Harvey Recovery: A Progress Report
Steps Towards Implementation
Stephen C. Costello, P.E
Chief Recovery Officer
February 2019
THE TEAM

Mayor Sylvester Turner

City Controller

Chief Recovery Officer

Stephen Costello

City Council

Contractor Teams (reimbursable costs)

Critical Contributors
Melanie Bartis, David Benson, Mayra Bontemps, Tracy Cormier, Jedediah Greenfield, Jamila Johnson, Sarah Labowitz, Gloria Moreno, Paula Pineda, Derek Sellers, Jamaal Smith, Maria Town

THE TEAM

Infrastructure, Policy, Strategy
Laura Patino

Infrastructure
Carol Haddock

Planning
Margaret Wallace-Brown

Housing
Tom McCasland

Small Business & Workforce Development
Carlecia Wright

Neighborhood Restoration
TaKasha Francis

Finance & Compliance
Tantri Emo

Procurement
Jerry Adams

GR & Advocacy
Bill Kelly

Media
Alan Bernstein

Legal
Deidra Penny

City Operations
Harry Hayes

City Controller

Margaret Wallace-Brown

Tom McCasland

Carlecia Wright

TaKasha Francis

Tantri Emo

Jerry Adams

Bill Kelly

Alan Bernstein

Deidra Penny

Harry Hayes

City Council

Chief Recovery Officer

Stephen Costello

Melanie Bartis, David Benson, Mayra Bontemps, Tracy Cormier, Jedediah Greenfield, Jamila Johnson, Sarah Labowitz, Gloria Moreno, Paula Pineda, Derek Sellers, Jamaal Smith, Maria Town

Contractor Teams (reimbursable costs)
OUR PATH TO...

HELP
PEOPLE + NEIGHBORHOODS

TRANSFORM
HOUSING

STRENGTHEN
BUILDINGS & INFRASTRUCTURE

CATALYZE
REGIONAL FLOOD MANAGEMENT PLAN

A MORE RESILIENT HOUSTON
RECOVERY PROGRAMS*

$230M
RESILIENCE PROJECTS

$2B
CITY FACILITIES & INFRASTRUCTURE

$1.1B
NEIGHBORHOOD DRAINAGE

$1.3B
BUILD IT FORWARD

FEMA GRANTS

FEMA PUBLIC ASSISTANCE

HUD INFRASTRUCTURE

HUD HOUSING

*a $280M local match is required & requested through the Texas Rainy Day Fund
$1.3B
BUILD IT FORWARD

HUD HOUSING
## HOUSING RECOVERY PROGRAMS

### Local Action Plan priorities

1) **build back into existing homes**

2) **build forward into new opportunities**

### Program Guidelines

- **+** Program guidelines approved
- **●** Program guidelines pending
- **●** Program under review

### Table: Housing Recovery Programs

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homeowner Assistance Program</td>
<td>$427.9 M</td>
</tr>
<tr>
<td>New Single-Family Development Program</td>
<td>$222.3 M</td>
</tr>
<tr>
<td>Multifamily Rental Program</td>
<td>$350 M</td>
</tr>
<tr>
<td>Small Rental Program</td>
<td>$66.7 M</td>
</tr>
<tr>
<td>Homebuyer Assistance Program</td>
<td>$23.7 M</td>
</tr>
<tr>
<td>Buyout Program</td>
<td>$40.8 M</td>
</tr>
<tr>
<td>Public Services</td>
<td>$60 M</td>
</tr>
<tr>
<td>Economic Revitalization Program</td>
<td>$30.3 M</td>
</tr>
<tr>
<td>Planning</td>
<td>$23.1 M</td>
</tr>
<tr>
<td>Housing Administration</td>
<td>$31.1 M</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1.3 B</strong></td>
</tr>
</tbody>
</table>
**Housing and Community Development**

Local Action Plan priorities and budget: 1) build back into existing homes, 2) build forward into new opportunities

<table>
<thead>
<tr>
<th>Program</th>
<th>Amount</th>
<th>Percent of Total</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homeowner Assistance Program</td>
<td>$392,729,436</td>
<td>33%</td>
<td>Five program options to assist eligible homeowners with their rehabilitation and reconstruction needs: City Managed Rehabilitation and Reconstruction, Reimbursement, Acquisition, Homeowner Managed Rehabilitation and Interim Mortgage Assistance.</td>
</tr>
<tr>
<td>New Single-Family Development Program</td>
<td>$204,000,000</td>
<td>17%</td>
<td>Provide new affordable single-family homes for low- and moderate-income homebuyers to help replace affordable housing stock damaged/lost in Hurricane Harvey.</td>
</tr>
<tr>
<td>Multifamily Rental Program</td>
<td>$321,278,580</td>
<td>27%</td>
<td>The development of new multifamily rental housing, the acquisition and/or rehabilitation of flood-damaged multifamily rental housing and strategic land acquisition for multifamily development to address the shortage of quality, affordable housing.</td>
</tr>
<tr>
<td>Small Rental Program</td>
<td>$61,205,100</td>
<td>5%</td>
<td>Improve the affordable rental housing stock by rehabilitating small rental properties (1 – 7 units) damaged by Hurricane Harvey and creating new housing stock.</td>
</tr>
<tr>
<td>Homebuyer Assistance Program</td>
<td>$21,741,300</td>
<td>2%</td>
<td>Provide funds for down payment, closing cost, principal buy-down and other direct financial assistance to homebuyers to finance the purchase of a home.</td>
</tr>
</tbody>
</table>

**Program** | **Amount** | **Percent of Total** | **Description**                                                                                                                                                                                                 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Buyout Program</td>
<td>$40,800,000</td>
<td>4%</td>
<td>Residential structures that have flooded more than once will be purchased and demolished to create park amenities, open space, or detention areas.</td>
</tr>
<tr>
<td>Public Services</td>
<td>$60,000,000</td>
<td>5%</td>
<td>Services to support residents to find housing, remedy housing issues, or to become more resilient in future disasters, whether they be natural, economic or personal.</td>
</tr>
<tr>
<td>Economic Revitalization Program</td>
<td>$30,264,834</td>
<td>3%</td>
<td>Help create jobs that will improve the economic viability for Houstonians and neighborhoods. Assistance may be provided through loans or grants.</td>
</tr>
<tr>
<td>Planning</td>
<td>$23,100,000</td>
<td>2%</td>
<td>Community engagement to inform the City's recovery plan development. Funds may also be used to study specific topics related to mitigation or resilience or plan for specific projects.</td>
</tr>
<tr>
<td>Housing Administration</td>
<td>$20,835,088</td>
<td>2%</td>
<td>Improve capacity to plan for and deliver high-quality programs and services with appropriate oversight.</td>
</tr>
</tbody>
</table>

**Total** | **$1,175,954,338** | **100%** |                                                                                                                                                                                                                 |

Additional $100 M not included in these cost estimates. See slide 6 for increase in program amount.
**Housing Recovery Program Timeline**

- **Action plan approved by HUD**: 11-11-2018
- **Contract signed with GLO**: 1-4-2019
- **Program Guidelines approved by Council**: 1-9-2019
- **Housing Recovery Program Launch**: 1-14-2019
- **Construction Management contract goes to Council**: 1-23-2019
- **Other Program Guidelines approved by Council**: 2-27-2019
- **Economic Development Program Guidelines developed**: 3-31-2019
- **MPM re-procurement goes to Housing Committee and Council**: 3-31-2019*
- **Recovery remains on track, despite government shutdown**: 3-31-2019
- **5th HRC opens**: 3-31-2019
- **As program continues, progress updates will be provided.**

**Recovery remains on track, despite government shutdown**

**3 of 7 Program Guidelines**: Homeowner Assistance, Multifamily, and Homebuyer Assistance

**5 of 7 Program Guidelines**: Single Family, Small Rental, Public Services

- **Housing Recovery Program Launch**: 4 Housing Resource Centers (HRCs) open
- **www.recovery.houstontx.gov goes live**
- **Harvey Recovery Survey is the first step to redirecting residents to the best program for their needs**
RECOVERY.HOUSTONTX.GOV

CALL
832.393.0550

HOUSING RESOURCE CENTERS

1. Northwest Housing Resource Center
   13101 Northwest Freeway, Suite 101
   Houston, TX 77040

2. Northeast Housing Resource Center
   9551 N. Wayside Dr. Houston, TX 77028
   (North Wayside Sports & Recreation Center)

3. Southeast Housing Resource Center
   11550 Fuqua Street, 3rd Floor
   Houston, TX 77034

4. Southwest Housing Resource Center
   6464 Savoy Drive, Suite 110
   Houston, TX 77036

HOURS OF OPERATION:

MON 9 AM–6 PM  TUE 9 AM–6 PM  WED 10 AM–8 PM  THU 10 AM–8 PM  FRI 9 AM–6 PM  SAT 9 AM–3 PM  SUN Closed
$2B
CITY FACILITIES & INFRASTRUCTURE
FEMA
PUBLIC ASSISTANCE
## PUBLIC ASSISTANCE – FEMA (GSD+HPW+HOUSTON FIRST)

<table>
<thead>
<tr>
<th>Category</th>
<th>Examples</th>
<th>Cost Estimate</th>
<th>Estimated Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category A - Debris Management</td>
<td>Citywide debris removal, Lake Houston debris</td>
<td>$259 M</td>
<td>3</td>
</tr>
<tr>
<td>Category B – Emergency Repairs</td>
<td>Sheltering operation, clean-up of facilities, police and fire overtime</td>
<td>$190 M</td>
<td>48</td>
</tr>
<tr>
<td>Category C – Road and Bridge Repairs</td>
<td>West Lake Houston Parkway Bridge</td>
<td>$65 M</td>
<td>TBD</td>
</tr>
<tr>
<td>Category D – Stormwater</td>
<td>Drainage channels</td>
<td>$10 M</td>
<td>TBD</td>
</tr>
<tr>
<td>Category E - Buildings</td>
<td>Wortham Theater and garage, City Hall, libraries, fire stations and other City assets</td>
<td>$625 M</td>
<td>180</td>
</tr>
<tr>
<td>Category F – Water/Wastewater Utility</td>
<td>Waste water treatment plants, lift stations, pump stations and drinking water facilities</td>
<td>$1.1 B</td>
<td>182</td>
</tr>
<tr>
<td>Category G - Other</td>
<td>Parks, flooded vehicles</td>
<td>$40 M</td>
<td>20</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>$2.2 B</strong></td>
<td><strong>436</strong></td>
</tr>
</tbody>
</table>
PUBLIC ASSISTANCE PROCESS

- Damage Assessments
- Repair and reconstruction alternatives planning phase
- Agreement on documentation & alternatives
- FEMA Obligations*
- Construction and Drawdowns

*Flow of funds through TDEM
Weekly meetings with FEMA to prioritize projects to be obligated and processed.

PUBLIC ASSISTANCE – STATUS

Amount Submitted through Grants Portal: $331M

Obligated by FEMA: $12.5M
- FEMA share $10.7M
- COH share $1.7M

Received by COH: $4.8M

*Values as of 2/22/2019
FEMA GRANTS

$230M RESILIENCE PROJECTS
RESILIENCE PROJECTS

- Lake Houston Dam
- North Canal
- Inwood Detention
- TIRZ 17

Infrastructure
Home Mitigation

$230M
# HAZARD MITIGATION GRANT PROGRAM

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>DISTRICT</th>
<th>WATERSHED</th>
<th>COST ESTIMATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inwood Golf Course</strong></td>
<td>A, C, B</td>
<td>White Oak</td>
<td>$48.6M</td>
</tr>
<tr>
<td>Linear Detention</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>North Canal</strong></td>
<td>C, H, I</td>
<td>Buffalo, White Oak</td>
<td>$151M</td>
</tr>
<tr>
<td>Diversion Channel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TIRZ 17</strong></td>
<td>G</td>
<td>Buffalo</td>
<td>$60.4M</td>
</tr>
<tr>
<td>Underground detention and storm system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>improvements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lake Houston Dam</strong></td>
<td>E</td>
<td>San Jacinto</td>
<td>$48.5M</td>
</tr>
<tr>
<td>Additional gate structure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Individual Home Mitigation</strong></td>
<td>All</td>
<td>All</td>
<td>$53.2M</td>
</tr>
<tr>
<td>Elevation and buyouts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project</td>
<td>District</td>
<td>Watershed</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------</td>
<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Inwood Golf Course</td>
<td>A, C, &amp; B</td>
<td>White Oak</td>
<td>227-acre golf course to be converted to a set of detention basins, providing approximately 1,300 acre-feet of storage</td>
</tr>
<tr>
<td>North Canal</td>
<td>C, H, &amp; I</td>
<td>Buffalo; White Oak</td>
<td>Diversion channel at the confluence of White Oak and Buffalo bayous, southern/downstream channel for additional mitigation following I-45 realignment, and upstream reconstruction bridges in Heights and Yale for overall 100 year WSE reduction along White Oak and Buffalo Bayou</td>
</tr>
<tr>
<td>TIRZ 17</td>
<td>G</td>
<td>Buffalo</td>
<td>Underground detention basins and storm water system improvements and connections for additional storage and conveyance capacity</td>
</tr>
<tr>
<td>Lake Houston Dam</td>
<td>E</td>
<td>San Jacinto</td>
<td>Addition of 10-gate structure to complement existing dam to allow for controlled releases</td>
</tr>
<tr>
<td>Individual Home Mitigation</td>
<td>All</td>
<td>All</td>
<td>Buyouts, elevations, demolition, and rebuild application for individual homes</td>
</tr>
</tbody>
</table>
Regular meetings with TDEM and FEMA are being held to discuss projects and expedite review and approval of applications.
Awaiting release of Federal Register Notice of Funding Availability (NOFA)
NEIGHBORHOOD DRAINAGE | $1.1B

INFORMATION TABLE

ONLINE SURVEY
bit.ly/drainagesurvey

EMAIL SIGN-UP
bit.ly/houstondrainage

COMMUNITY INPUT

HOUSING INVESTMENTS & DRAINAGE NEEDS

PARTNERSHIPS

FEDERAL RULES

*required for HUD funding
LOOKING AHEAD

- Advance PA projects through discussions with FEMA
- Expedite review of HMGP Projects
- Advocacy for additional funding – CDBG DR Mitigation
- Clarity of intent for legislative session: local-match
THANK YOU