

The Year of the Hurricanes

Dealing with the Immediate Needs & Planning a Successful Recovery

National Tornado Summit

February 27, 2018

Disaster Impact Across the United States

WHY SHOULD YOU CARE?

In 2016, the United States weathered 23 natural disasters with economic damages exceeding \$48B. The statistics for the past 10 year include:

165 storms impacting 88M people with \$280B in damages

14 floods impacting 11M people with \$36B in damages

3 Wildfires impacting 1M people with \$18B in damages

5 earthquakes, droughts, and landslides with \$22B in damages

State and Local officials are challenged with the daunting task of not only responding to such events and protecting their citizens, but also building back communities that are stronger while planning for enhanced future resilience.

Disaster Recovery Challenges Communities Face

WHAT ARE THE COMMON CHALLENGES

Underfunded mitigation agencies

Lack of defined roles & responsibilities

Lack of strategic community vision

Lack of urgency

Lack of political commitment

Lack of private-sector involvement

Ineffective local assistance

Lack of response readiness

Lack of transparency

Uncoordinated responders

Exposure to financial risk

Intense public scrutiny

Lack of a thorough recovery plan

Limited funding availability

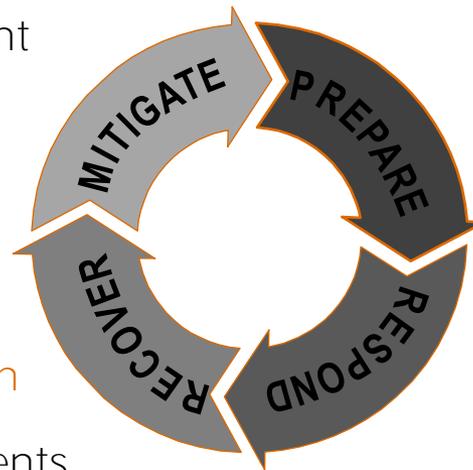
Burdensome eligibility requirements

Exposure to reputational risk

Potential for fraud, waste, and abuse

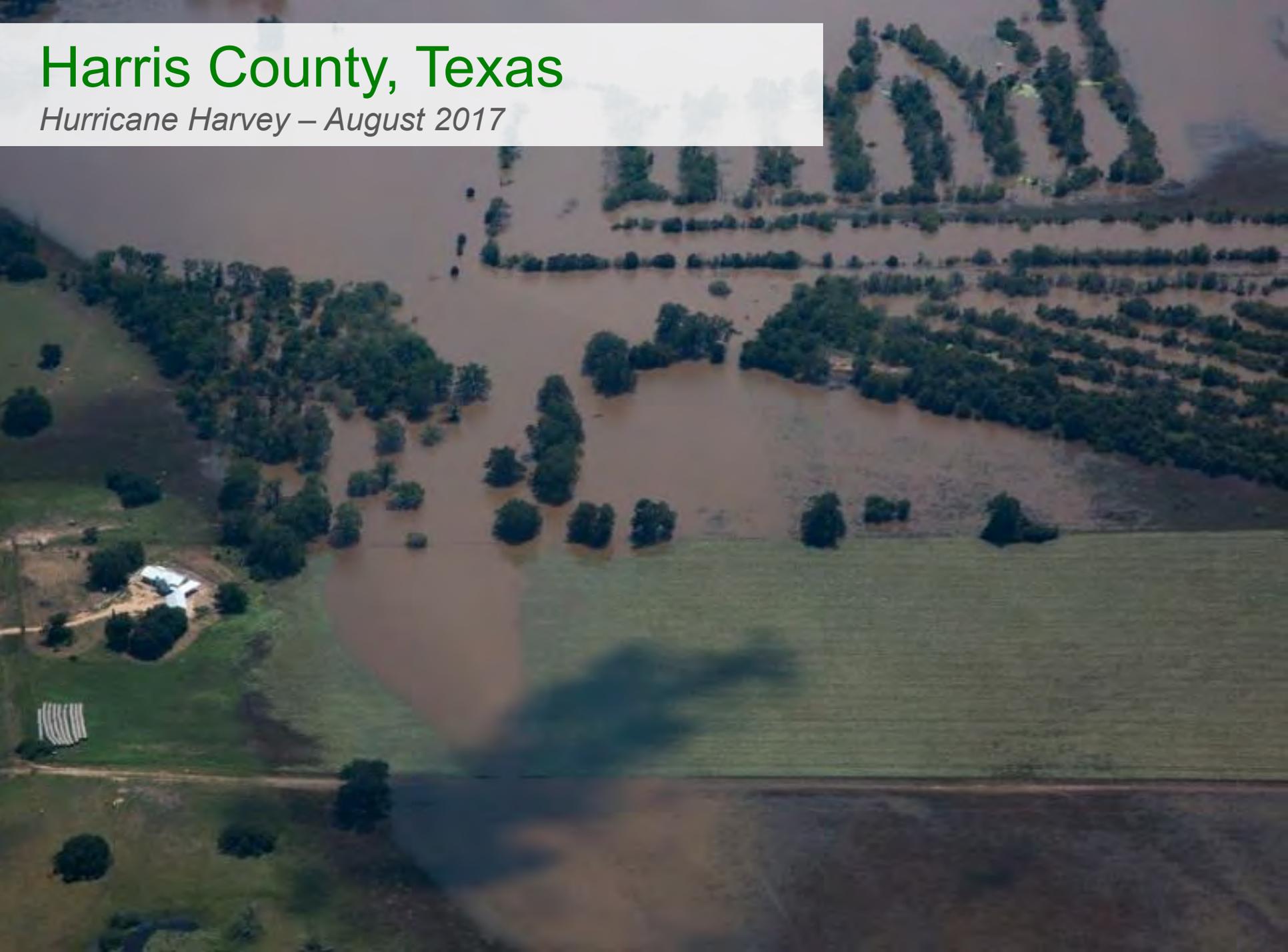
Lack of community education

Undefined communication protocol



Harris County, Texas

Hurricane Harvey – August 2017



Impact of Harvey

Costliest Tropical Cyclone

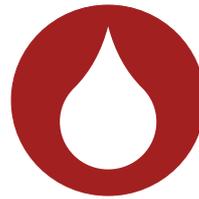
Hurricane Harvey is tied with Hurricane Katrina as the costliest tropical cyclone on record, resulting in at least \$125 billion in damage, primarily from catastrophic rainfall.



63 Lives
Lost



200,000 Homes
Damaged or Destroyed



1 Trillion
Gallons of Rain



\$80 Billion
in Damages



30% of County
submerged



Current Situation

Federal Funding

Harris County is working diligently with multiple Federal, State, and Local Agencies in providing immediate relief and recovery services to the residents. We are currently focusing on:

FHWA

Over \$23 million in ER projects identified and being submitted to the FHWA review

HUD

Needs assessment under way

FEMA

Over \$250 million in damage estimates currently being provided for FEMA review

Other

Communicating with other agencies including USDA, USACE, NRCS, EPA as needed

Current Situation

What is on the top of our minds

While Harris County is working with multiple Federal, State, and Local Agencies in providing immediate relief and recovery services to the residents, we are focusing on:



Where will impacted residents choose to live temporarily, and will they eventually decide to return to their communities?



How will damaged/destroyed infrastructure and other public assets be rebuilt in a resilient manner to support full recovery, as well as address future community and economic needs/goals?



Will businesses, both those directly damaged by the disaster and those indirectly impacted by the event, survive to provide jobs and services in the future – how will economic recovery look?



How can vulnerable communities rebuild to be more resilient to future unexpected events? How can at-risk populations' needs in those communities be addressed during the recovery process?



How can stakeholders manage the financial and reputational risks associated with disaster recovery? How long will it take to achieve full recovery? How do communities fund comprehensive recovery?



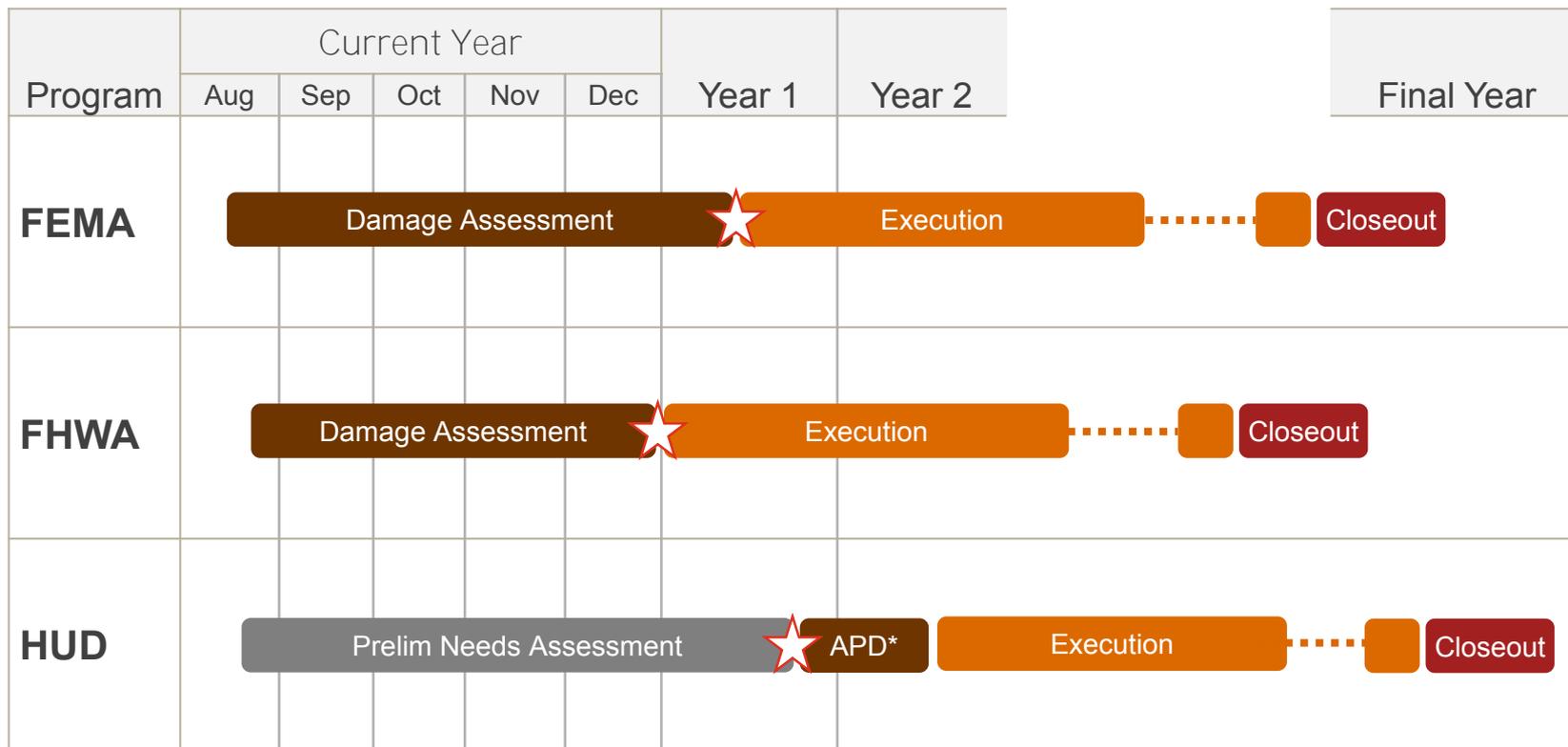
What can Harris County do to be better prepared for long term recovery and unexpected events? Infrastructure and Capital Assets? Homes? Hospitals and Schools? Economically and Socially?

**Response
&
Recovery**

Recovery Timeline

Timeline

We have started down the path of recovery and are eager to make significant progress for the community as quickly as possible, cognizant of the need to speed recovery efforts while mitigating risks of non-compliance with various grant regulations

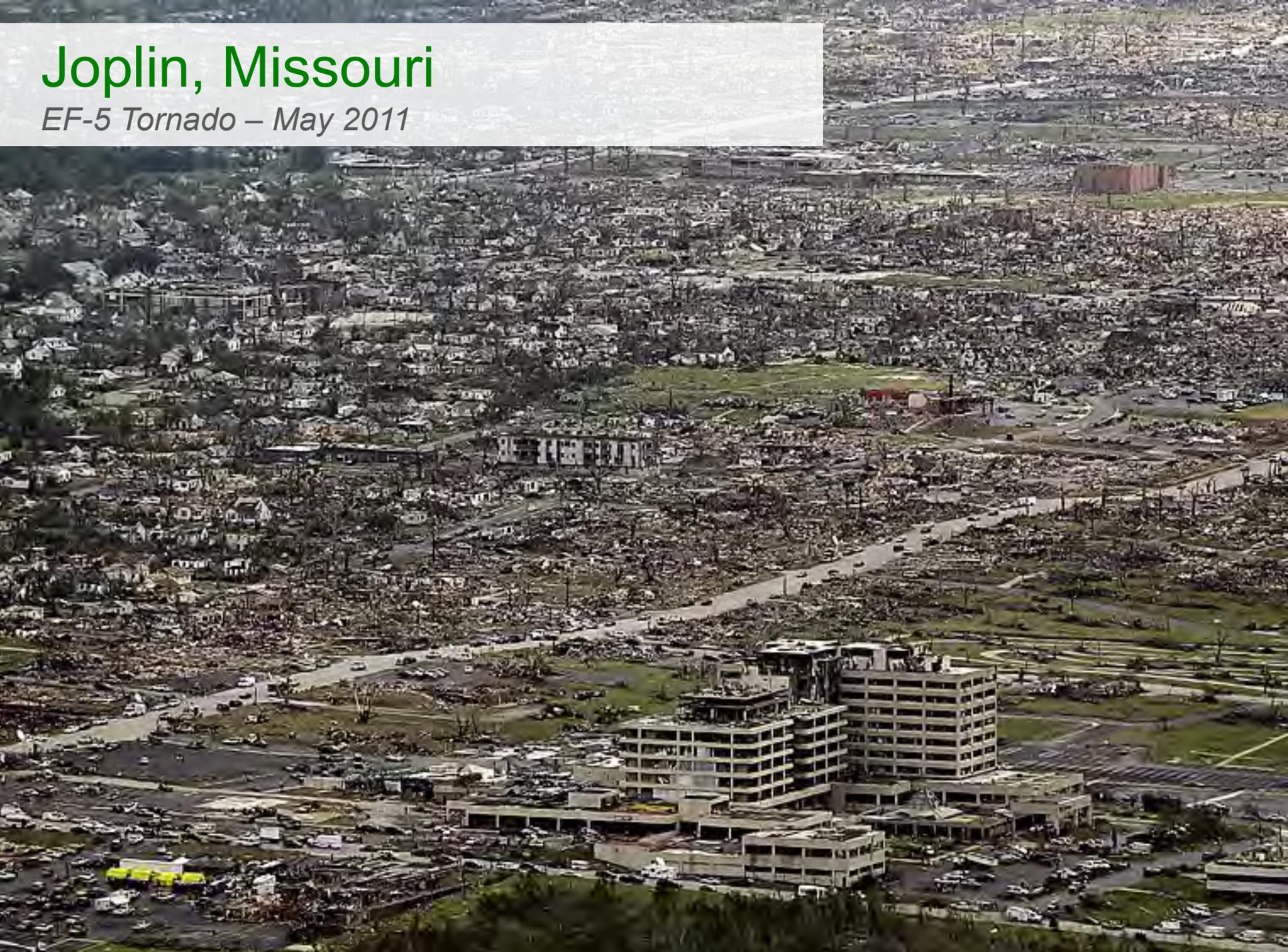


★ Substantial obligation of funds

*Action Plan Development

Joplin, Missouri

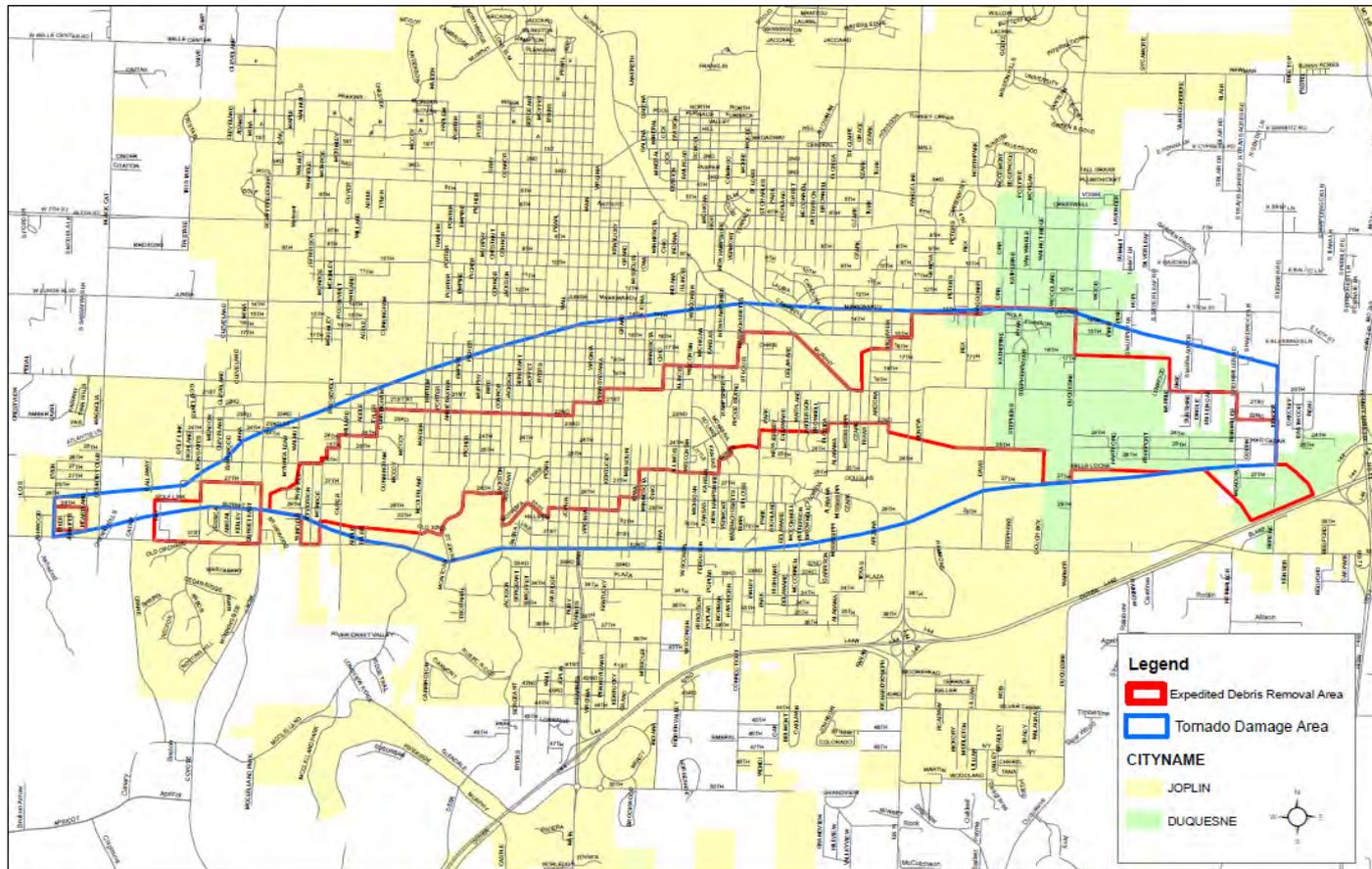
EF-5 Tornado – May 2011



Joplin, Missouri

'The Fish'

That the time of the disaster, the City of Joplin had a population of 51,150. The 2011 tornado impacted approximately 1/3 of the City, as shown by below map, in the most densely populated portion of the City – 1,500 people per square mile.



Joplin Tornado

Deadliest Tornado in 70 Years

The Joplin tornado was one of the most deadly, and the 7th costliest, tornado in U.S. history. +17,000 Joplin residents were directly impacted by the disaster, +9,200 residents were left homeless following the event.



**161 Lives
Lost**



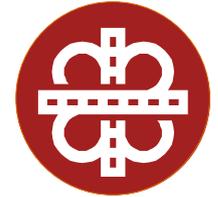
**+7,500 Homes
Damaged or Destroyed,
+550 business Damaged or
Destroyed**



**+\$3 Billion
in Damages**



**+3 Million Cubic
Yards of
Residential Debris
Removed**



**33% of City's
Area Impacted,
traveling +13
miles**



Recovery Overview

Where we are today

54 projects were selected in the Capital Plan totaling over \$137 million with the remainder of the funds allocated to administration, planning, and ADC*

All \$158 million has been obligated

> \$100 Million

Of the \$158 million received in CDBG-DR grants have been spent to date

96%

Of the 54 projects identified in the capital plan are in progress

\$36 Million

currently in active construction and/or execution phase

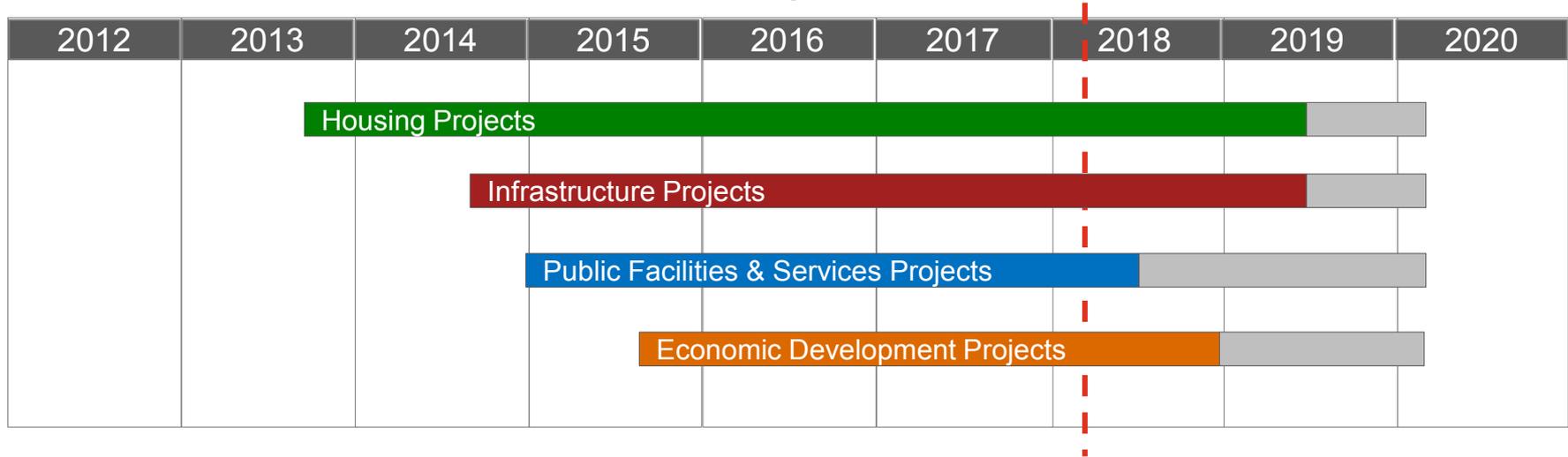
14 projects

Are substantially complete

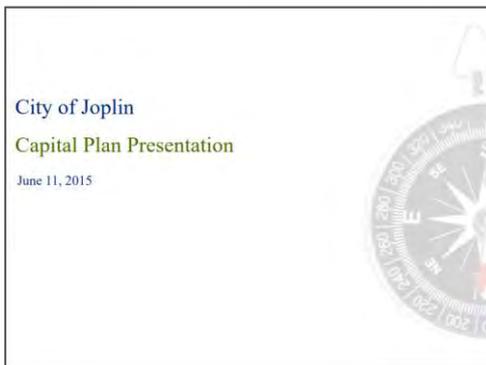
Recovery Timeline

From Start to Finish

Overview of CDBG-DR Timeline through Closeout



Overview of the Joplin Capital Plan Allocation Process



Workshop #2 Results
Recalibration

New Rank	Score	Project Name	Proposed Value (M)	Key Notes
1	8.726	Infrastructure - Project 1	\$ 30.00	High impact to LMI and recovery area
2	8.749	Infrastructure - Project 2	\$ 11.00	High impact to remaining (over-LMI) recovery area
3	7.485	Streetscape - 20th Street	\$ 7.00	Provides critical connectivity to projects 1 & 2
4	7.600	Streetscape - Main Street	\$ 8.00	Provides critical connectivity to projects 1 & 2
5	7.172	Advanced Training Center	\$ 5.50	Critical need in community, economic/workforce drive
6	7.665	Ozonarka Industrial Park	\$ 5.50	Economic driver support job creation
7	7.576	Joplin Senior Center	\$ 4.75	Critical location and proximity to other amenities
8	7.497	Infrastructure - Trail Construction	\$ 1.00	Urgent need within community, quality of life
9	8.996	LHAP	\$ 4.00	Reduced value, applications remaining in pipeline
10	8.152	Infrastructure - Project 4	\$ 1.50	Critical infrastructure, Murphy Road/Industrial Highway
11	7.231	Airport Industrial Park	\$ 5.00	Potential economic development asset
12	7.432	Infrastructure - Project 3	\$ 10.20	Repair of lesser impacted recovery area infrastructure
13	7.357	Mixed Income Multi - Family	\$ 4.75	Support recovery of rental housing inventory
14	8.870	Green Neighborhood	\$ 0.65	Development of a green neighborhood
15	7.148	Infrastructure - Tree Planting	\$ 2.20	Opportunity to replace trees lost in disaster
16	7.085	Micro-Enterprise Dev. Zone	\$ 0.43	Financial assistance for start-up businesses
17	7.101	Joplin Business Assistance Program	\$ 9.10	Financial assistance for disaster-displaced businesses
18	8.886	Joplin Bungalows	\$ 3.85	Support recovery of disaster impacted MFH units
19	8.834	Community Clinic of Joplin	\$ 0.24	Support delivery of health services for LMI clientele
20	8.454	Oriskany Mental Health Services	\$ 0.70	Support of disaster-related mental health services
21	6.270	Aurora Econ. Development Project	\$ 3.20	Potential economic development opportunity
22	8.266	Land Acquisition and Assesblage	\$ 5.50	Potential resource to acquire property for development
23	5.429	Emerson School Reconstruction	\$ 11.20	Opportunity to help recovery of local neighborhood
24	5.120	Juvenile Detention Center	\$ 5.20	Support delivery of mental health services

986.25 M

Affordable Housing - JHAP/JHRP

Down-payment Assistance & Rehabilitation Program

Housing

LMC

Project Description

JHAP provided down-payment and closing cost assistance to 580 homes/1,250 residents within 120% median income purchasing homes in the recovery area, resulting in increasing the number of affordable housing opportunities and assisting in the repopulation of the recovery area. JHRP provided funding to Low-Moderate Income (LMI) homeowners to assist in the rehabilitation of homes damaged as a result of the disaster.

Key Current Activities

Complete project closeouts

Project Owners

City	Patty Heagel/Larry Eller
PwC	Shannon Anasotopolos

Intake ✓	
Eligibility ✓	
Environmental ✓	
Payment ✓	
Closeout	

Allocation & Expenses

\$ 17.8 million

\$ 17.8 million

Economic Redevelopment - ATTC Phases I&II

Building & Equipment Purchase for Training Facility

Public Facilities & Improvements

LMC

Project Description

Post-disaster recovery requires an economic component, and Joplin is committed to supporting a vibrant and resilient local economy. A part of Joplin's economic strategy is providing workforce training to the unemployed and upgrading the skillsets of the underemployed. The ATTC will address the area's workforce needs by providing better skilled workers to existing and new companies, and enable local residents (specifically LMI residents) to advance their skills and, consequently, their standard of living.

Key Current Activities

Finalize RFP for roofing rehabilitation

Assess additional equipment needs

Project Owners

City Patty Heagel/ Loni Smith

PwC Travis Green

Acquisition
✓

Design
✓

Construction
✓

Equipment

Closeout



Allocation & Expenses

\$ 5.9 million

\$ 6.5 million

HUD/OIG Reviews

Previous HUD/OIG visits

The Department of Housing and Urban Development (HUD) and the Office of Inspector General (OIG) have visited the City 6 times to perform periodic monitoring. These visits have resulted in a total of 3 Exemplary Practices, and no outstanding issues.

3 Exemplary
Practices

*Capital Planning Process
Integrated Master Schedule
CDBG-DR Compliance Manual*

*No Outstanding
Issues*

*6 HUD & OIG
Visits*

Questions?