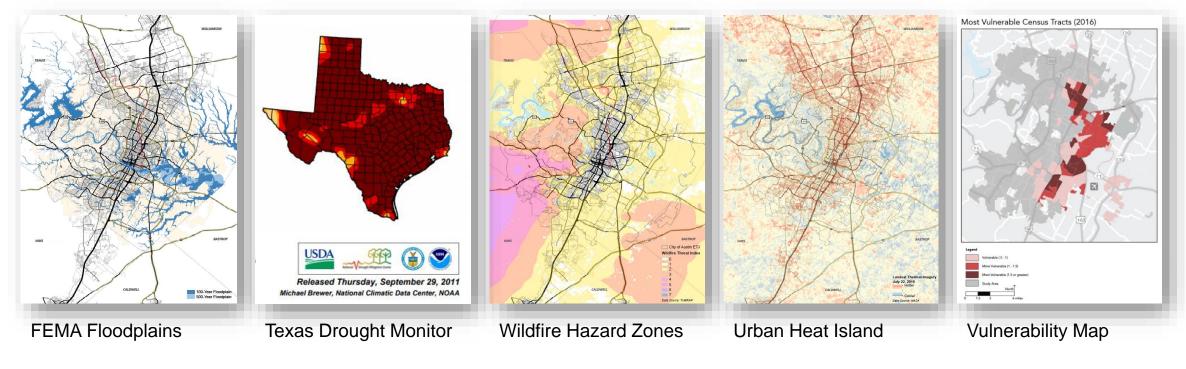
# **Climate Resilient Austin**

Joint Sustainability Committee update September 25, 2019

# Agenda

- Climate Resilience Action Plan for City Assets and Operations Update (2018)
- Council Resolution Update

### **Hazard Mapping**





From UT Austin Center for Sustainable Development

#### Data based on:

- People of color
- Lack of higher education
- Low income
- Renters

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Children in poverty

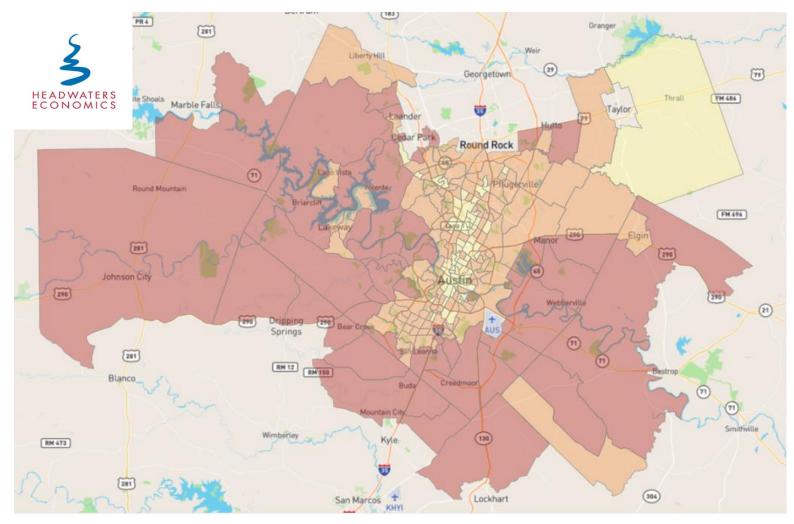
### Climate Resilience Action Plan for City Assets and Operations Update

Emergency Response	<ul> <li>Emergency Procedures</li> <li>Safe Emergency &amp; Evacuation Routes</li> <li>Disaster Response Resources</li> </ul>			
Staff Safety	<ul><li>Field Staff &amp; Workplace Safety</li><li>Hazard Training</li></ul>			
Existing Facilities & Infrastructure	<ul> <li>Critical Infrastructure</li> <li>Building Efficiency &amp; Redundancy</li> <li>Telecommunications</li> </ul>			
New Facilities & Infrastructure	<ul><li>Design for Resilience</li><li>Plan for Resilient Infrastructure</li></ul>			

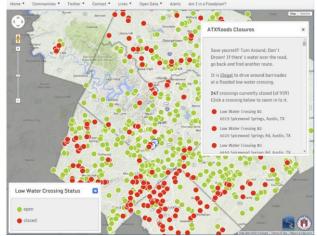
#### Asset and Operations Update

	Department Safety Groups	Fieldworker Safety
2018 - 2020		Hazard Training
	Development Services	Urban Forest Canopy
	Human Resources	Fieldworker Safety
		Hazard Training
	Austin Water	Water Supply Impacts
	Public Works	Pavement Materials
	Watershed Protection	Community Evacuations
		Stormwater Infrastructu
	Homeland Security and	Community Evacuations
	Emergency Management	Disaster Training For Led
		City Staff Evacuations
	Austin Fire Department	Community Evacuations
	Austin Transportation	Access to Commuinty Fac
	Office of Sustainability	Resilient Infrastructure
	Austin Energy Green Buil	Passive Survivability
	Austin Water	Infrastructure Hardening
	Communications and	Network Node Hardening
	Technology Management	
	Austin Parks and Recreati	-
	Public Works	Infrastructure Hardening
	Austin Public Health	Resilience Hubs
		Redundant Power
	Austin Public Libraries	Resilience Hubs
	Watershed Protection	Infrastructure Hardening
0		Floodplain Management
203	Parks and Recreation	Building Update
й		Redundant Power
<u>.</u>		Workplace Safety
20	Homeland Security and	Resource Inventory
20	Emergency Management	Resource Needs
		Shelters
		Shuttle Mobilization Poli
	Austin Fire Department	Wildfire Risk Mitigation f
	Fleet Services	Shuttle Mobilization Poli.
	Austin Energy	Infrastructure Hardening
	Austin Energy	
		Workplace Safety
	Austin Converting Cont	Financial Impacts
	Austin Convention Center	
		Flood Proofing Utilities

### **Example: Fire Potential & Health Impacts**



Austin Wildfire & Health Tool



ATXFlood (existing)



ATXFire (prototype part of Innovation Fund)

# **Resolution No. 20190509-019**

### **Resilience Planning**

- "perform a literature review of climate resilience plans of peer cities..."
- *"explore available, potential partnerships (such as the 100 Resilient Cities model)..."*
- *"recommendations for creating a comprehensive, community-wide climate resilience plan that is fair, just, and equitable..."*

#### **Chief Resilience Officer**

- Recommendations should include funding options, such as grants or other revenue sources, to ...
  - 1) fund a position for a Chief Resilience Officer and staff necessary to produce a resilience plan; or

2) hire a consultant to draft or assist city staff with drafting a comprehensive resilience plan; or

3) other recommendations for achieving this objective.

# **Case Studies**

### **Criteria for selecting cities:**

- 1. Population between 600,000 and 1.5 million
- At least one 100RC city (Boston, Dallas, DC) and one non-100RC city (San Antonio and Indianapolis)
- 3. At least one city that has attempted a **combo mitigation/adaptation** plan (Indianapolis)
- At least two exemplary plans (Boston, Washington DC. According to USDN CRO)
- 5. At least **two from Texas** (Dallas and San Antonio)
- 6. At least **three not directly impacted by sea-level rise** (Dallas, Indianapolis and San Antonio)

### **Selected Cities:**

- 1. Boston
- 2. Dallas
- 3. Denver
- 4. Indianapolis
- 5. San Antonio
- 6. Washington D.C.



### **Lessons Learned**

#### Process

- Incorporate equity in all strategies
- Don't diminish stressors
- Include hazard mapping
- Get community input
- Define who is **responsible** for what actions

#### **Resource needs**

- More **resources = more** engagement
- Consider consultant: technical expertise, community engagement & reporting
- Identify resources prior to implementation

#### Implementation

- Define metrics for success
- Focus on actionable strategies
- Consider equitable distribution of resources/ projects



### Phase 1: Submitted August 2019

\*Staff is asking for an extension to October 31, 2019 to provide additional recommendations for creating a comprehensive, community-wide climate resilience plan that is fair, just, and equitable.

Summary of Phase One									
Recommended Community-Wide Climate Resilience Actions									
Recommendation	Lead Department	Staffing / Budget Impact	Timeframe	Potential Funding Partners / Collaborators					
1) Hire a Chief Climate Resilience Officer	Human Resources with Office of Sustainability and/or Homeland Security Emergency Management	New Executive-level position \$100-\$150K base salary (\$140-\$203K with benefits)	Once budget identified, 6 months for recruitment and hiring	The Rockefeller Foundation funded Chief Resilience Officers during a three year grant period, but that funding is no longer available. Staff is continuing to search for other potential external funding partners.					
		OR	OR						
		Reclassify existing vacant position for mid- management level Climate Resiliency Manager	3 months for Reclass and hiring process						
		Cost impact TBD							
2) Gap analysis of existing plans, programs and policies	Office of Sustainability with multiple departments	None (to be completed with existing staff / budget resources)	6-8 months						
3) GIS mapping to identify most vulnerable locations and populations	Office of Sustainability, CTM, Homeland Security, and Public Health	None (to be completed with existing staff / budget resources)	6-8 months						

### Phase 2: Equity

 Additional climate shocks/stressors on top of existing economic stressors

Low-income first hit, worst hit

- Less resources to bounce back from event
- Long term impacts to mental and physical health

### **Questions?**