

# Advancing Environmental Justice Through Climate Action



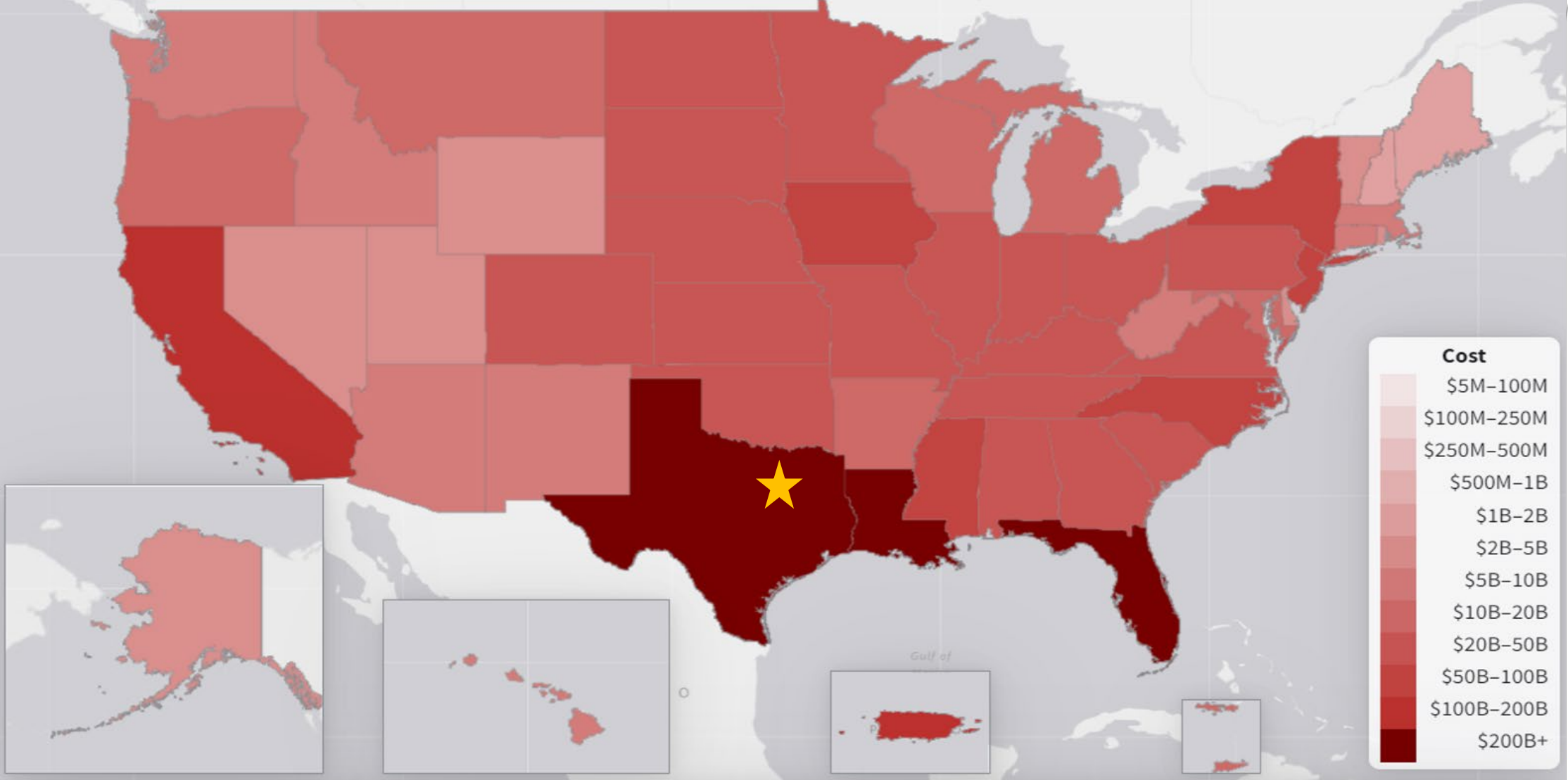
City of Dallas

Texas Impact  
Resilient Congregations Summit  
Dallas, Texas  
July 15-16, 2023



Dallas Environmental  
Quality & Sustainability

# 1980-2022 Billion-Dollar Weather and Climate Disaster Cost (CPI-Adjusted)



NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2023). <https://www.ncei.noaa.gov/access/billions/>, DOI: 10.25921/stkw-7w73

## United States

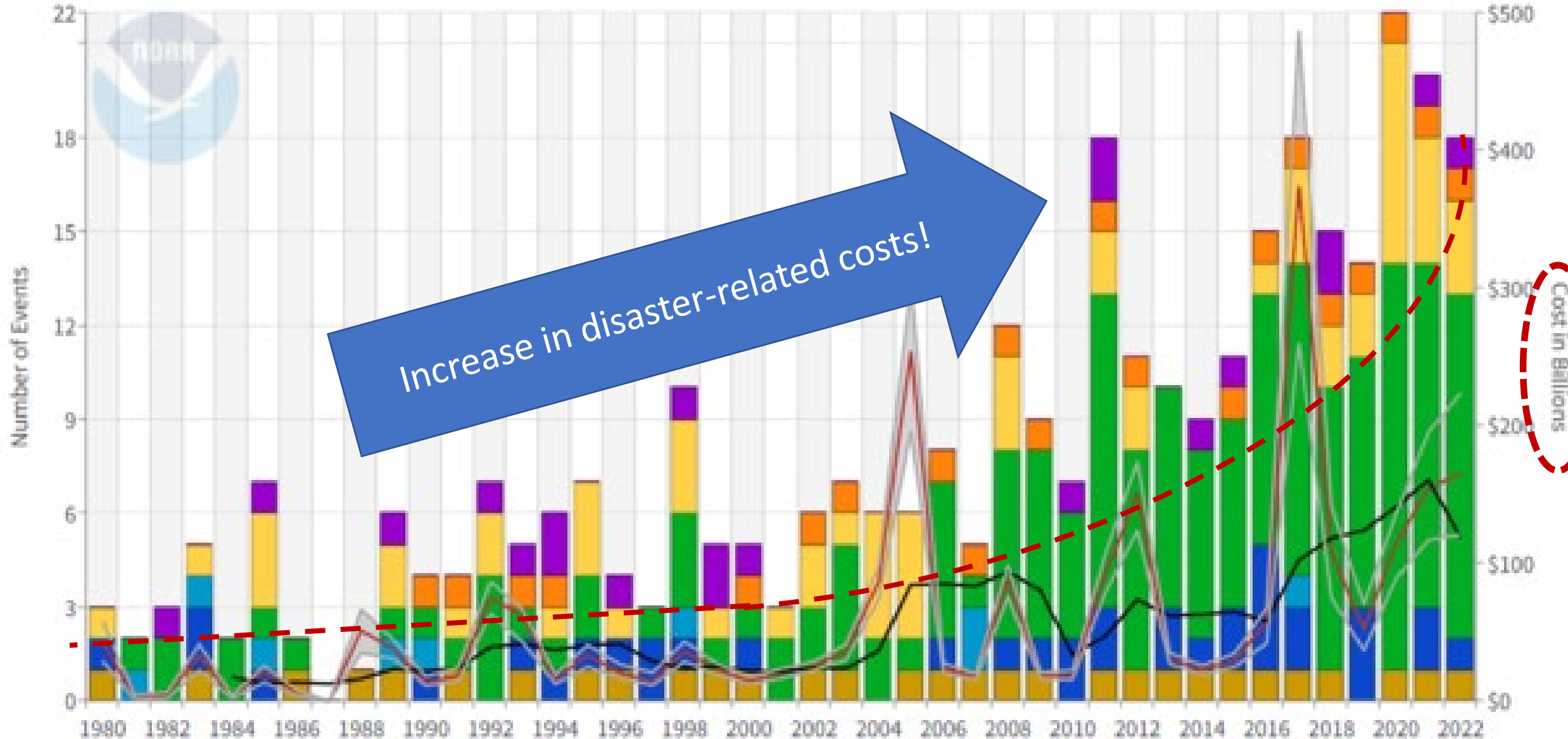
|   |   |   |  |
|---|---|---|--|
| <span style="color: yellow;">■</span> Drought: \$250B+          | <span style="color: blue;">■</span> Flooding: \$100B-200B   | <span style="color: cyan;">■</span> Freeze: \$20B-50B           | <span style="color: green;">■</span> Severe Storm: \$250B+ |
| <span style="color: orange;">■</span> Tropical Cyclone: \$1.3T+ | <span style="color: purple;">■</span> Wildfire: \$100B-200B | <span style="color: magenta;">■</span> Winter Storm: \$50B-100B | <span style="color: red;">■</span> All Disasters: \$2.4T+  |

# ENVIRONMENT & CLIMATE CHALLENGES



# United States Billion-Dollar Disaster Events 1980-2022 (CPI-Adjusted)

- Drought Count
- Flooding Count
- Freeze Count
- Severe Storm Count
- Tropical Cyclone Count
- Wildfire Count
- Winter Storm Count
- Combined Disaster Cost
- Costs 95% CI
- 5-Year Avg Costs



# Comprehensive Environmental & Climate Action Plan (CECAP)



Adopted unanimously by Dallas City Council on May 27, 2020

*“With equity and inclusion as core values, the CECAP proposes solutions that will improve our natural environment, our education and economic outcomes, the affordability of our housing stock, and our transportation systems.”*

*-Mayor Eric Johnson*



# CECAP BASES



The image is a composite graphic illustrating the components of the CECAP. On the left is the cover of the 'Global Protocol for Community-Scale Greenhouse Gas Emission Inventories' by the Greenhouse Gas Protocol, featuring icons of various energy and transportation sources. In the center is a data visualization showing '202e Values With Reductions Applied' with a line graph and a table of measures. A large blue plus sign is positioned between the data and the community input. On the right, a group of colorful human icons is shown, with a large yellow figure in the center and a speech bubble containing the text 'YOUR VOICE MATTERS'.

| Measure Name                                     |
|--|
| Residential Indicator Calculator Test 1          |
| Commercial High-level Test 1                     |
| High-level 50% EV 20% bike 20% transit           |
| High level commercial energy--high efficiency    |
| High-level 20% Bicycle                           |
| High-level 20% Bicycle and 50% EV                |
| High-level 20% Bicycle and 50% EV 100% RE charge |
| High-level transportation-Forecast Cohort        |
| High-level 50% Bicycle 50% transit               |
| High level transportation-test 3                 |

The CECAP is based upon equal parts sound science & community input



# Stakeholder Advisory Committees



## EXTERNAL PARTNERS:



## INTERNAL PARTNERS:

- Transportation/ Fleet
- Dallas Water Utilities (Water, Wastewater, Drainage)
- Park & Recreation
- Economic Development
- Aviation
- Housing/Fair Housing
- Development Services
- Planning + Urban Design
- Public Works
- Fleet
- Building Services
- And others!





# 8 CECAP Goals:



ALL DALLAS' COMMUNITIES BREATHE CLEAN **AIR**.



DALLAS PROTECTS AND ENHANCES ITS ECOSYSTEMS, TREES AND **GREEN SPACES** THAT IN TURN IMPROVE PUBLIC HEALTH.



DALLAS' **BUILDINGS** ARE ENERGY-EFFICIENT AND CLIMATE RESILIENT.



DALLAS' COMMUNITIES HAVE ACCESS TO SUSTAINABLE, AFFORDABLE **TRANSPORTATION** OPTIONS.



DALLAS GENERATES AND USES RENEWABLE, RELIABLE, AND AFFORDABLE **ENERGY**.



DALLAS PROTECTS **WATER RESOURCES** AND ITS COMMUNITIES FROM FLOODING AND DROUGHT.



ALL DALLAS' COMMUNITIES HAVE ACCESS TO HEALTHY, LOCAL **FOOD**.



DALLAS IS A **ZERO WASTE** COMMUNITY.





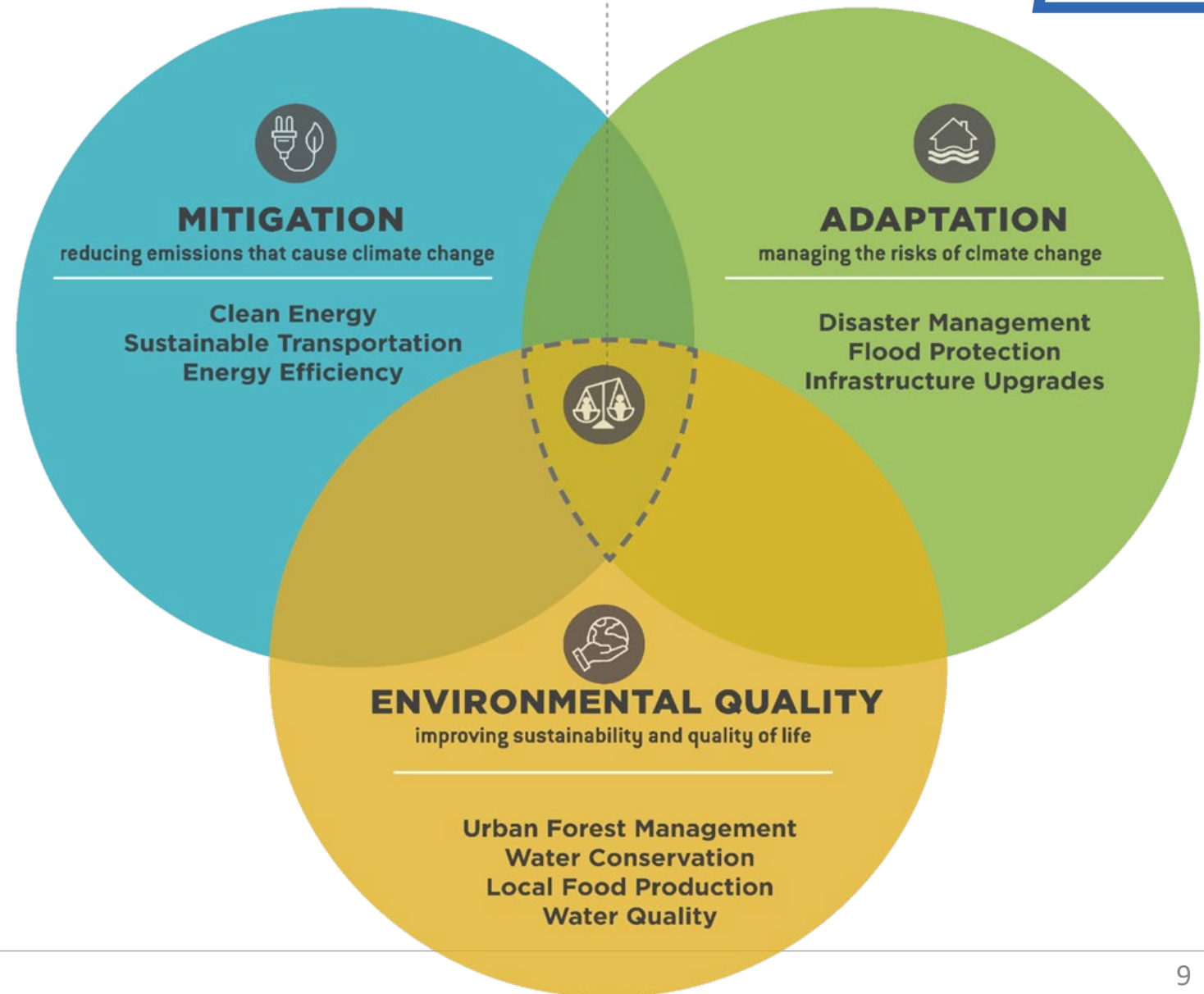
# Environmental Justice

**ENVIRONMENTAL JUSTICE**  
prioritizing communities most impacted or most in need across all actions



Environmental justice lies at the center of mitigation, adaptation, and environmental quality.

Many issues are interconnecting, and many actions have multiple benefits.



# CECAP: 97 Actions



SECTORS / GOALS

PRIMARY BENEFIT

CO-BENEFITS

97  
CECAP  
Actions



**16**  
BUILDINGS



**11**  
ENERGY



**19**  
TRANSPORTATION



**09**  
SOLID WASTE



**15**  
WATER RESOURCES



**09**  
ECOSYSTEMS



**14**  
FOOD + URBAN  
AGRICULTURE



**04**  
AIR QUALITY



**45**  
MITIGATION



**21**  
ADAPTATION



**20**  
ENVIRONMENTAL  
QUALITY



**11**  
ENVIRONMENTAL  
JUSTICE



**46**  
IMPROVE PUBLIC  
HEALTH + WELL-BEING



**40**  
PROVIDE COST  
SAVINGS



**31**  
IMPROVE  
AIR QUALITY



**28**  
PROVIDE EDUCATION,  
SKILLS OR TRAINING



**24** IMPROVE ACCESS  
TO EMPLOYMENT /  
JOB CREATION



**15**  
REDUCE INEQUALITY  
+ POVERTY



**17**  
REDUCE GHG  
EMISSIONS



**08** INCREASE  
NATURAL RESOURCE  
CONSERVATION



**11**  
IMPROVE WATER  
QUALITY



**13**  
REDUCE RESOURCE  
CONSUMPTION



**10** PROMOTES  
ENVIRONMENTAL  
STEWARDSHIP



**10**  
REDUCE  
VULNERABILITY



# CECAP: Transparency



- The public can follow along with CECAP progress at [DallasClimateAction.com](https://DallasClimateAction.com)
- This public facing dashboard is updated quarterly

The screenshot shows the Dallas Climate Action website dashboard. At the top, the navigation menu includes Home, Background, Advisory Groups, Dashboard, CECAP, City Efforts, Calendar, Blog, and Contact Us. The main heading reads "YOUR CONNECTION TO THE CITY OF DALLAS COMPREHENSIVE ENVIRONMENTAL & CLIMATE ACTION PLAN". Below this is a row of eight colorful icons representing different sectors: buildings, energy, transit, water, air quality, trees, food, and waste. The central text states "COMPREHENSIVE ENVIRONMENTAL & CLIMATE ACTION PLAN (CECAP)" and "94% of Year 2 Work Plan Complete!". A note at the bottom indicates that in FY21-22, the City of Dallas completed 248 milestones toward the advancement of climate initiatives in 8 different sectors.




# CECAP Implementation (Multi-Department Effort)



Implement the Comprehensive Environmental and Climate Action Plan (CECAP) and effectuate resilience strategies, such as the creation of green roofs and a solar program.


**COMPREHENSIVE ENVIRONMENTAL AND CLIMATE ACTION PLAN**




**IMPLEMENTATION WORK PLAN  
FY 20-21**

BY OFFICE OF ENVIRONMENTAL QUALITY & SUSTAINABILITY  
WITH ENVIRONMENT & SUSTAINABILITY TASK FORCE AND  
LEADING ENVIRONMENTAL ACTION FORWARD


NOVEMBER 2, 2020



**CECAP IMPLEMENTATION  
WORK PLAN  
FISCAL YEAR 2021-2022**



**CECAP IMPLEMENTATION  
WORKPLAN  
FISCAL YEAR 2022-2023**



BY OFFICE OF ENVIRONMENTAL QUALITY & SUSTAINABILITY  
WITH ENVIRONMENTAL COMMISSION  
AND LEADING ENVIRONMENTAL ACTIONS FORWARD

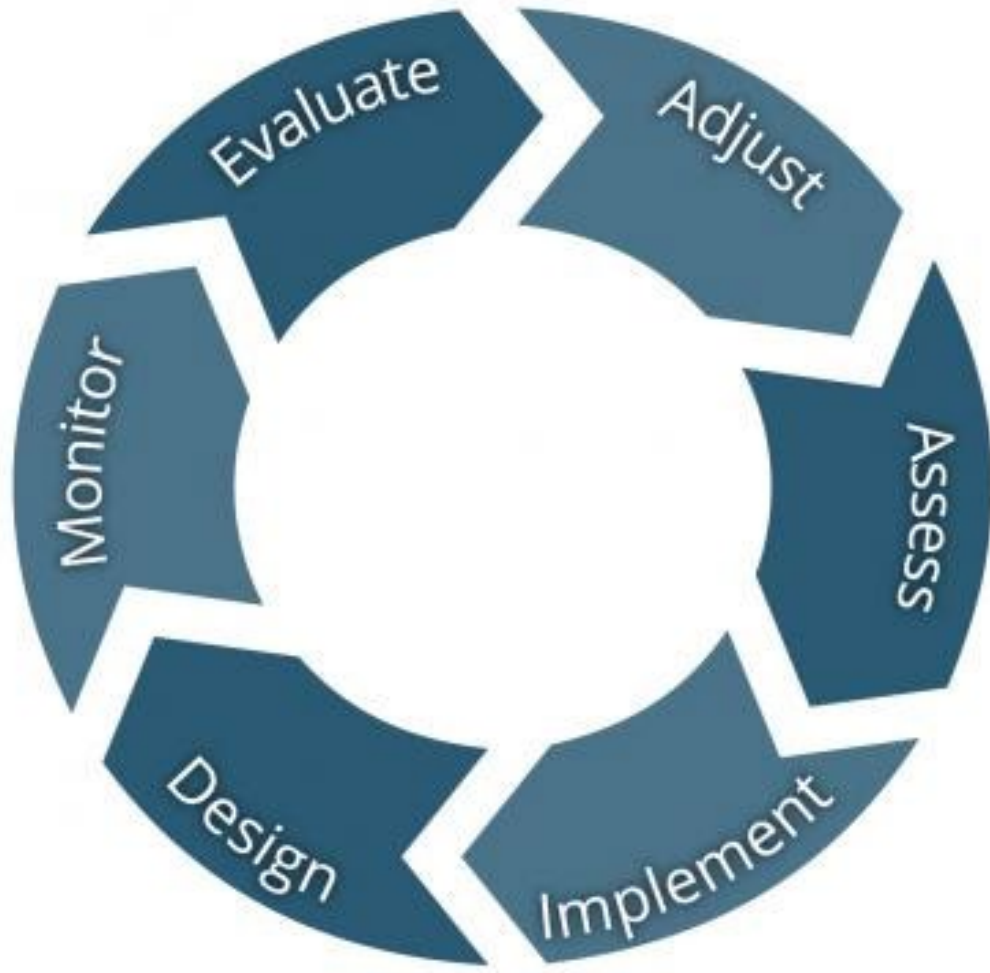
**92% of 136 Milestones/ 48 Actions**

**94% of 263 Milestones/ 73 Actions**

**202 Milestones/ 73 Actions Underway**

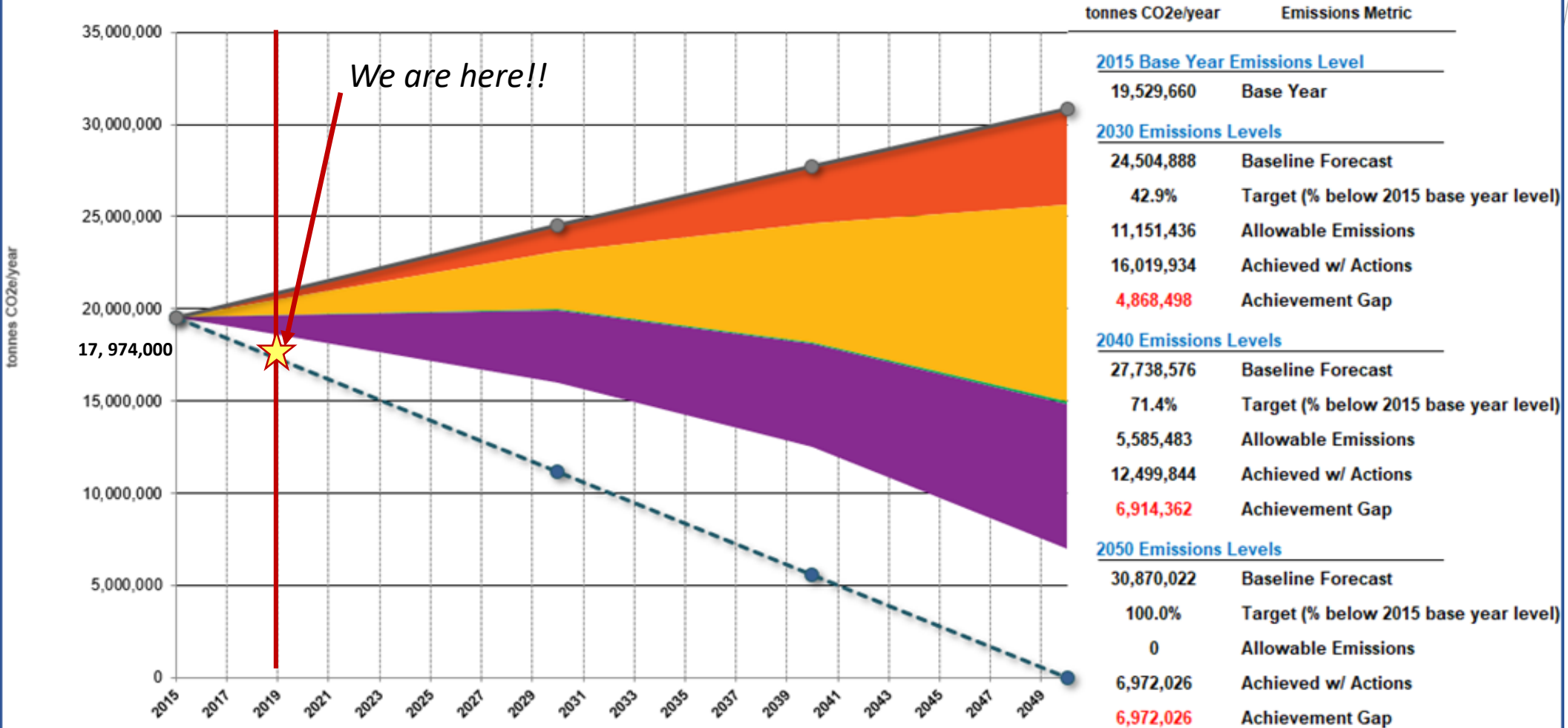


# Adaptive Management Approach



- Adaptive management practices allow an assessment of where the City currently stands, guide future planning, and identify any necessary CECAP plan updates.
- OEQS climate staff updated the greenhouse gas (GHG) inventory using data from 2019.
- Despite a population growth of roughly 6% during this time, the community-wide emissions decreased .
- Dallas has achieved an 11% reduction from the year 2015 data referenced in the CECAP.





**Legend:**

- National/Regional Actions (All Sectors)
- Solid Waste
- Private Building Energy
- Wastewater
- Municipal Building & Public Lighting
- Transportation
- Electricity Generation
- Baseline Forecast
- Target Trajectory

# Ongoing Stakeholder Engagement



| ENVS   | EVC  | RISE   | LEAF  |
|--|--|--|---|
| <b>Environment &amp; Sustainability Committee</b>  | <b>Environmental Commission</b>  | <b>Regional Integration of Sustainability Efforts</b>  | <b>Leading Environmental Actions Forward</b>  |
| <ul style="list-style-type: none"> <li>● Elected Officials</li> <li>● 7 Members</li> <li>● Directs CECAP Implementation</li> <li>● Meets monthly first Monday</li> </ul> | <ul style="list-style-type: none"> <li>● Dallas Residents</li> <li>● 15 Voting members</li> <li>● 8 technical experts</li> <li>● Advises on CECAP Implementation &amp; EJ issues</li> <li>● Meets monthly</li> </ul> | <ul style="list-style-type: none"> <li>● North Texas Municipalities</li> <li>● Hosted by NCTCOG</li> <li>● Supports CECAP and other regional initiatives</li> <li>● Meets quarterly</li> </ul> | <ul style="list-style-type: none"> <li>● City Staff</li> <li>● 20 Departments implementing CECAP</li> <li>● Provides CECAP status updates</li> <li>● Meets quarterly</li> </ul> |



# Opportunities Moving Forward – Continue...



- **Updating Green Building Policy for Net Zero Carbon** and related specifications
- **Building energy equity** such as community solar and weatherization programs
- **Diversifying travel** modes and fleet electrification
- Exploring opportunities to **divert organic materials**, like plant and food waste
- **Expanding green space** and protecting existing tree canopy
- **Ensuring healthy food access** and increasing local food production
- **Implementing neighborhood air quality monitoring program**
- **Updating 2017 Heat Island Study** to assess improvement







Questions?

**Susan G. Alvarez, PE, CSM**  
**[e: Susan.Alvarez@Dallas.gov](mailto:Susan.Alvarez@Dallas.gov)**  
**214-670-1200**