

# Phoenix Climate Action Plan 2023 Update



**April 2023**



# 2023 Climate Action Plan Update: Overview



**Today I will discuss the following:**

- **Overview of climate change and how Phoenix is affected**
- **2021 Climate Action Plan long term goals and public engagement**
- **Review of greenhouse gas inventories and progress toward goals**
- **Examples of city work toward climate action plan goals**
- **Review of 2023 Climate Action Plan update process**
- **Request for public input and feedback on what should be included in the 2023 Climate Action Plan update.**

# Climate Action Plan (CAP) Approved by Phoenix City Council 2021



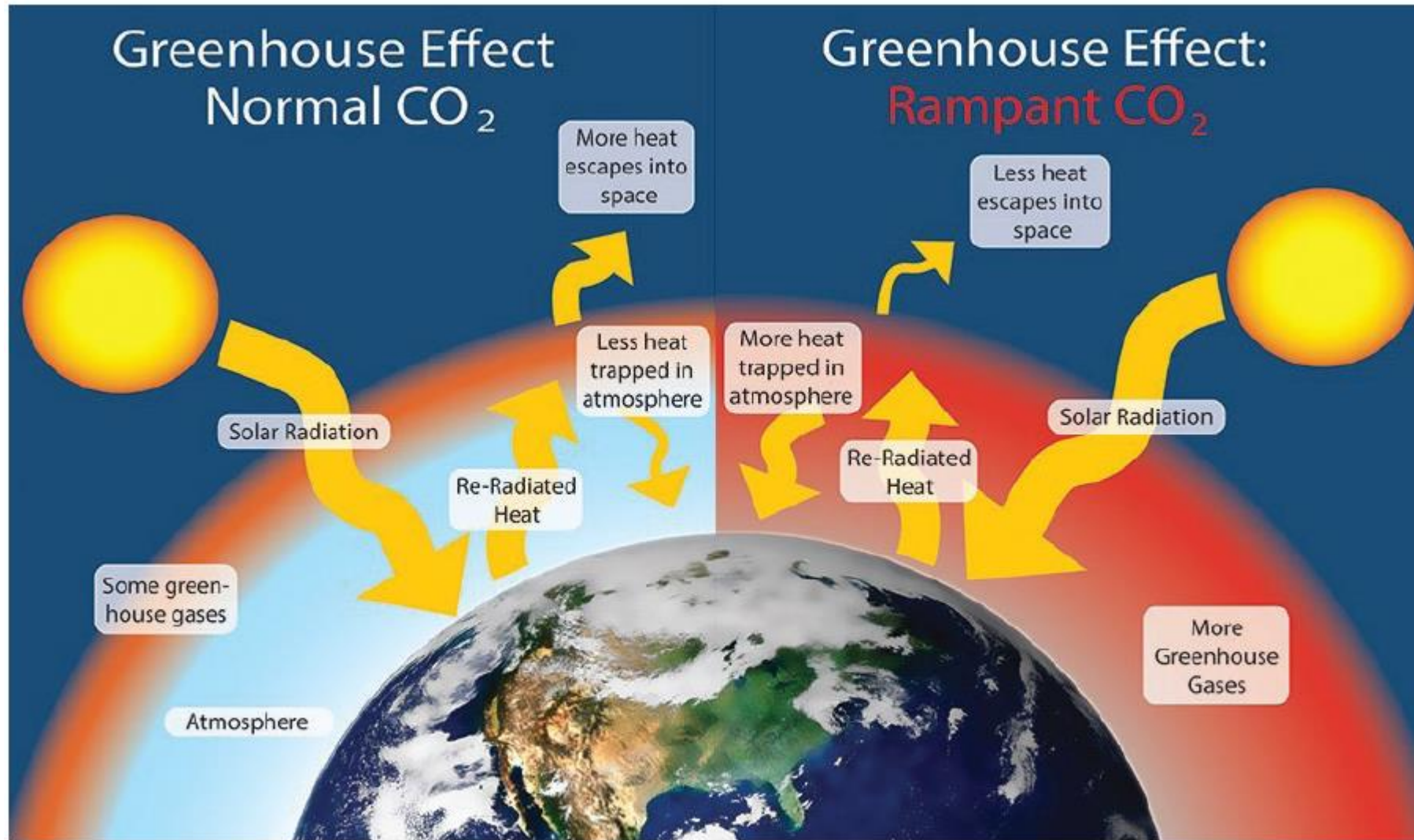
Phoenix is aligned with goals of the Paris Agreement to limit temperature increase to 1.5° C.



Accelerated climate change due to human activities.



# Climate Change: Greenhouse Gas Effect



(Source: National Park Service)

# 2021 Climate Action Plan: Public Outreach



**How important to you are the following community benefits provided by the implementation of climate solutions?**

- 1) Improved air and water quality (77%)**
- 2) Leaving a world where future generations can thrive and succeed (76%)**
- 3) A more equitable community that addresses climate change for all people living in Phoenix (66%)**
- 4) Reduced reliance on fossil fuels (65%)**
- 5) Improved health of my family (61%)**

# 2021 Climate Action Plan Greenhouse Gas Emissions Goals



**City of Phoenix has established greenhouse gas emissions reductions goals.**

## **Municipal Operations**

- 100% carbon neutral electricity by 2030

## **Community-scale**

- 50% GHG decrease by 2030 from 2018 levels
- Net-zero greenhouse gas emissions by 2050



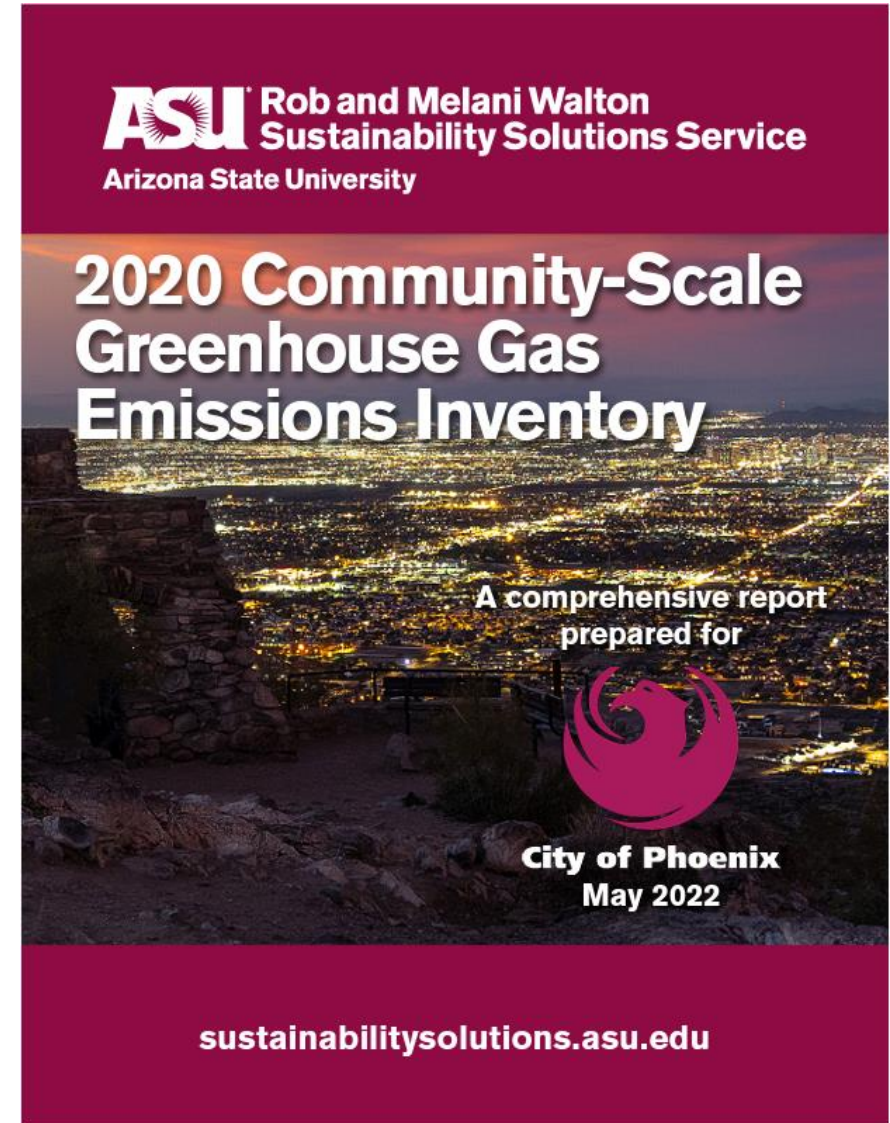
# Climate Action Plan 2023 Update



- **New 2020 GHG inventory data.**
- **New projects, programs, processes since 2021 CAP.**
- **Review and update existing CAP goals and create milestones for long term goals.**



# Long Term Change in GHG Emissions: 2012 to 2020





# Long Term Change in GHG Emissions: 2012 to 2020



**Stationary**

**Energy:**

**-21.5%**



**Transportation:**

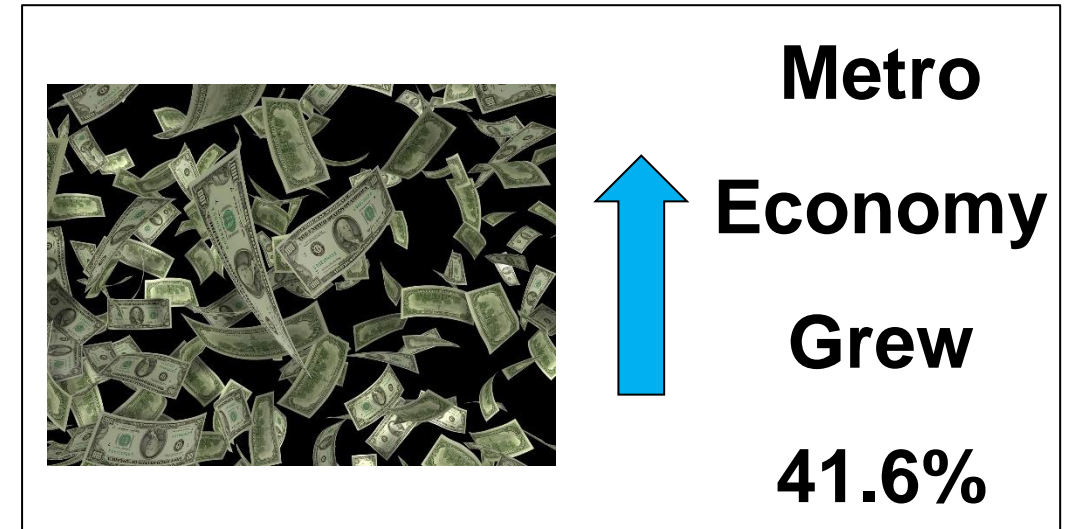
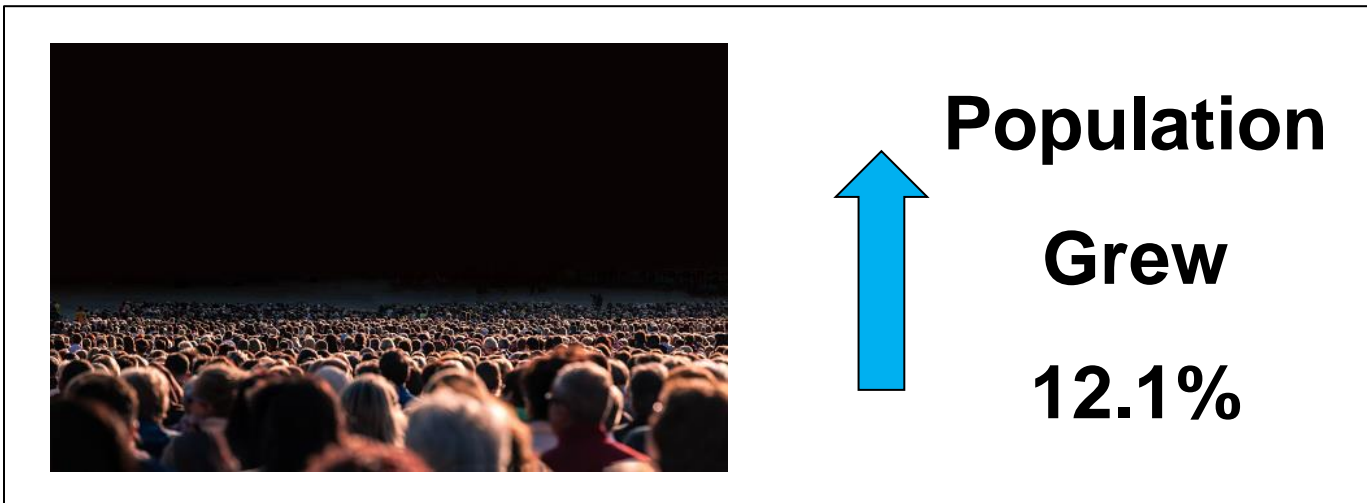
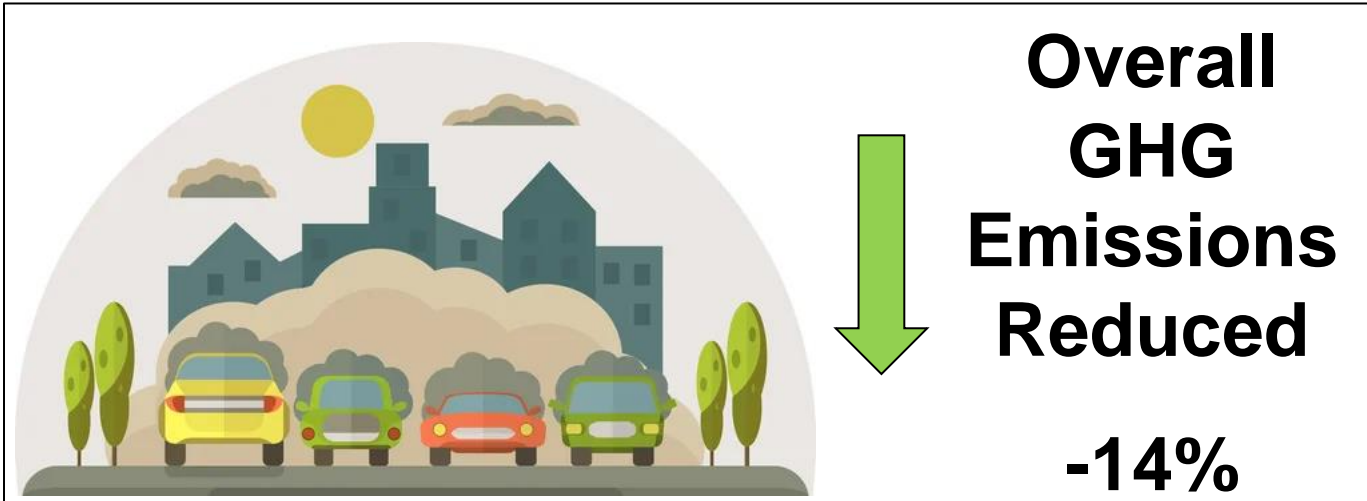
**-4.6%**



**Waste:**

**-21.8%**

# Long Term Change in GHG Emissions: 2012 to 2020





# Meeting Emission Reduction Goal: Emissions 2018 to 2020



- **Phoenix Community GHG reduction mid-term goal: 50% below 2018 levels by 2030**
- **Phoenix community GHG emissions decreased 12.1% from 2018 to 2020.**
- **37.9% GHG reduction from 2018 levels by 2030 needed to achieve goal.**

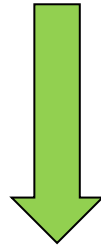


# Recent Change in GHG Emissions: 2018 to 2020



## Community scale

**-12.1% Overall  
GHG Reduction**



**Emission reductions due largely to retiring of Navajo  
Generating Station and transition to a less carbon intensive  
energy grid.**



# Climate Action Plan Progress



**Since 2021, there has been a significant amount of advancement made toward achieving goals**

**The following are some examples and a few Climate Action Plan goals for reference**



# 2021 Climate Action Plan: Example Goals



- **Local Food Systems:** All people living in Phoenix will have enough to eat and have access to affordable, healthy, local, and culturally appropriate food.
- **Transportation Sector:** Increase the community wide use of low carbon fuels (i.e. fuels other than gas and diesel)
- **Water:** Identify and implement infrastructure projects to ensure water security
- **Heat:** increase the use of reflective material on projects



# Climate Action Plan Progress: Food Systems



- **Sustainable Cooperative Food Business Training Program**
- **Urban Agriculture Fellowship**



- **Backyard Garden Program**
- **Phoenix Food Day and Healthfest**

# Climate Action Plan Progress: Aviation



- **The Phoenix Airport Sky Train extension completed in 2022**
- **This eliminated 72 busses that reduces GHG and air pollutant emissions**

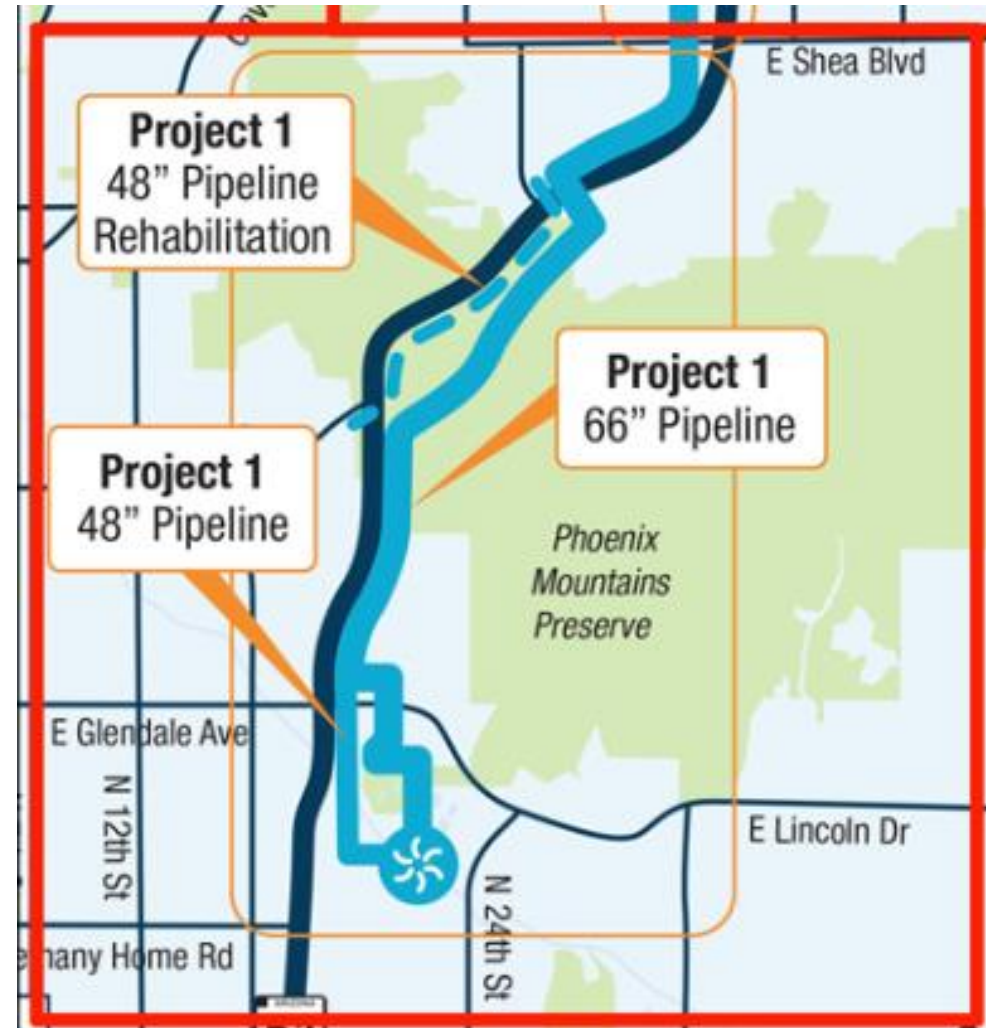




# Climate Action Plan Progress: Water



- **Infrastructure Investments:  
Drought Pipeline**
- **Water Wranglers**
- **Cooling Tower Revolving Fund**
- **HOA Efficiency Check Ups**



# Climate Action Plan Progress: Streets



- **Completed Cool Pavement Pilot and established a cool pavement program**
- **Micromobility, bike, and pedestrian improvements made**





# 2021 Climate Action Plan: Example Goals



- **Waste:** implement programs to reduce waste, increase the reuse, recycling and recovery of waste materials and promote social and economic value.
- **Transportation:** reduce single occupant vehicle trips taken to 60% of all trips, through land use and transportation investments that encourage walkable and transit oriented.
- **Transportation:** accelerate electric vehicle adoption in the community and expand publicly accessible EV charging infrastructure so that 50% of all vehicle sales being electric vehicles by 2030.

# Climate Action Plan Progress: Public Works



- **Public Works: reroute of recycling/trash collection for more efficiency**



Trash and Recycling Day to Change for Most Phoenix Customers

- **Public Works signed the plastics pact with the Recycling Partnership and World Wildlife fund to reduce and recycle plastic**
- **SR85 Landfill gas capture: contract is in place and engineering work is underway with contractor**



# Climate Action Plan Progress: Transit



- **Zero emission and hybrid bus purchase approved by council in 2022**
- **Bus Rapid Transit (BRT): dedicated lanes, online fares, more frequent service**



# Climate Action Plan Progress: Sustainability



- **City Council approved the Transportation Electrification Action Plan (TEAP) June 2022 in conjunction with Planning and Development**
- **Energy and Water Saving Projects underway in over 100 City facilities.**
- **SOLAR for low-income pilot program**



**City Council Adopts Transportation Electrification Plan**

# Climate Action Plan Progress: Additional Progress



- **City departments collaborating on Monarch habitat creation and protection.**
  - **2 acres of monarch habitat on city property in 2022**
  - **public outreach efforts reached an estimated 183,000 people.**



- **Other habitat restoration include projects within Rio Reimagined include Rio Salado Oeste and Tres Rios**



# Climate Action Plan Progress: Additional Progress



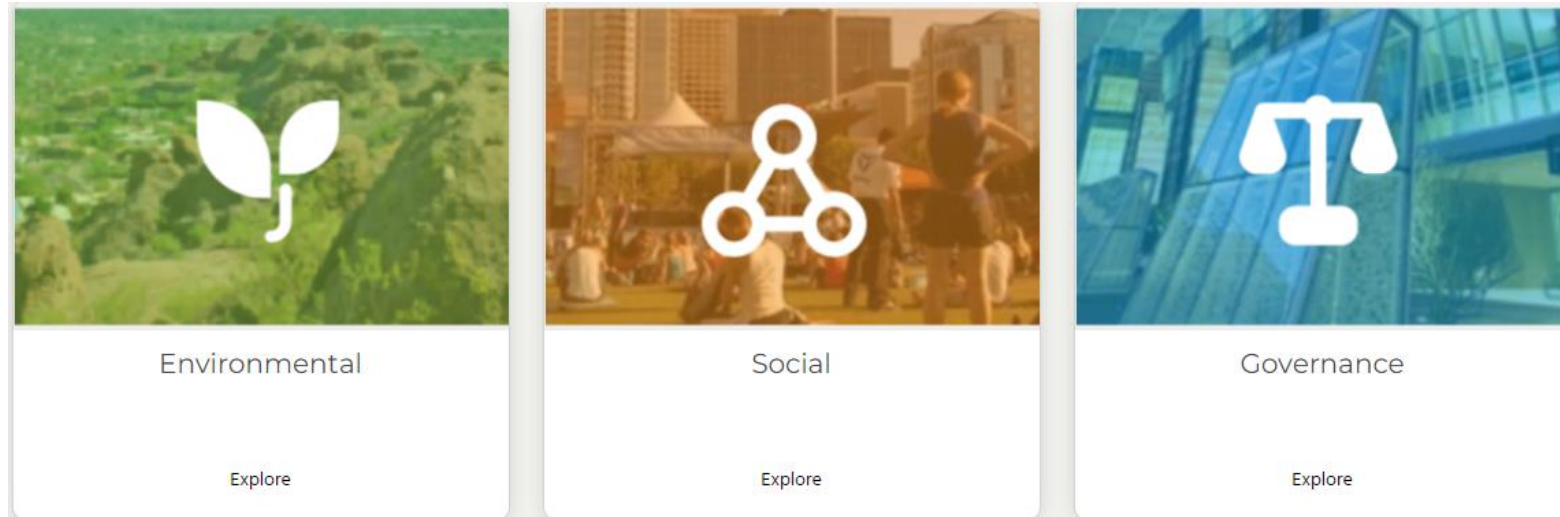
- **The Office of Heat Response and Mitigation is the first publicly funded local government office focusing on heat**
- **Planning and Development: walkable urban code**



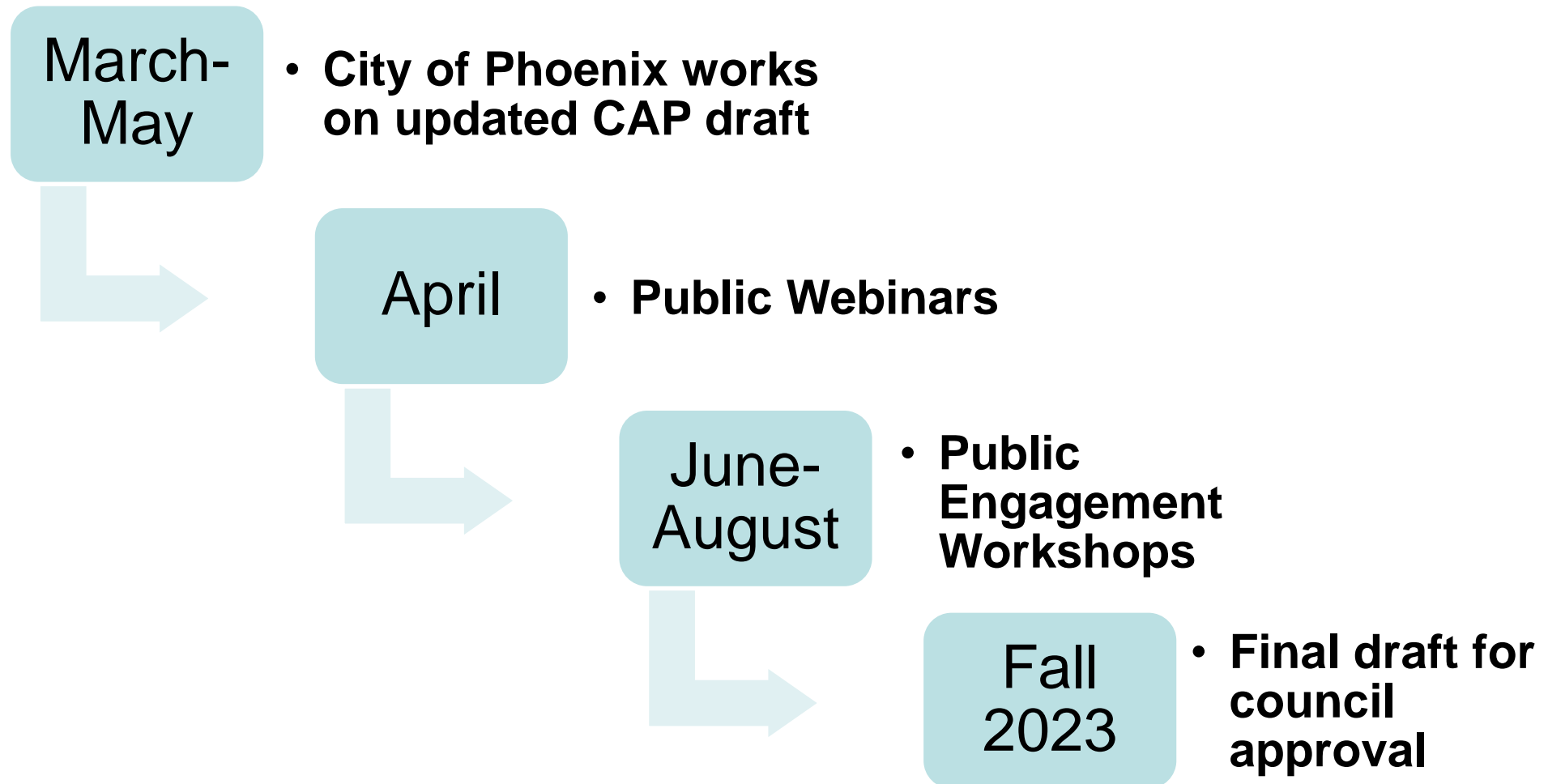
# Climate Action Plan Progress: Measurement



- **The City Manager's Dashboard: performance metric tracking**
- **ESG (Environment/Social/Governance) Dashboard: tracks indicators for ESG performance**



# 2023 Climate Action Plan Update Process





# 2023 Climate Action Plan: Public Input



- **The City of Phoenix requests public input on the 2023 Climate Action Plan update.**
- **Our ask is for you to think about what additional actions you want in the Climate Action Plan**



# Questions/Feedback?



# 2023 Climate Action Plan: Resources



- **The draft 2023 Climate Action Plan update is scheduled for end of spring 2023**
- **We welcome public comment on the draft**
- **Additional resources and survey can be found at:**
  - **[www.phoenix.gov/oep/cap](http://www.phoenix.gov/oep/cap)**
- **Please email questions, comments or suggestions to**
  - **[climate@phoenix.gov](mailto:climate@phoenix.gov)**