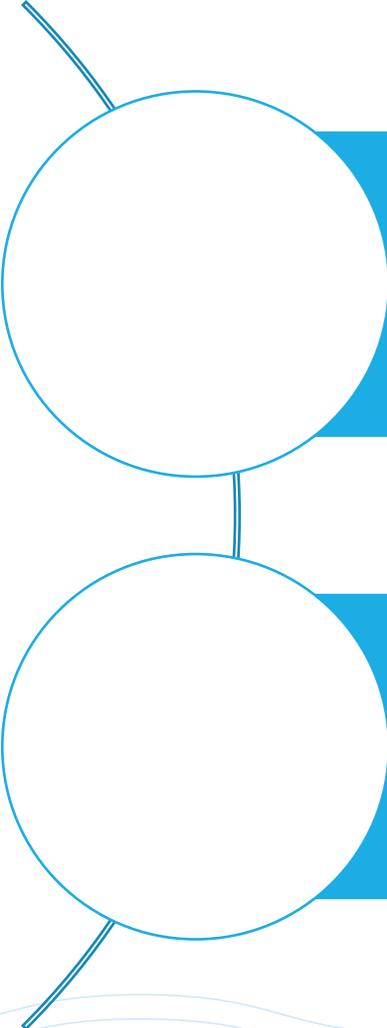


Water Forward: Austin's 100 Year Integrated Water Resource Plan

Austin Water Oversight Committee | May 24, 2023



Presentation Agenda



Water Forward 2018

- Development & Implementation

Water Forward 2024

- Planning for Uncertainty

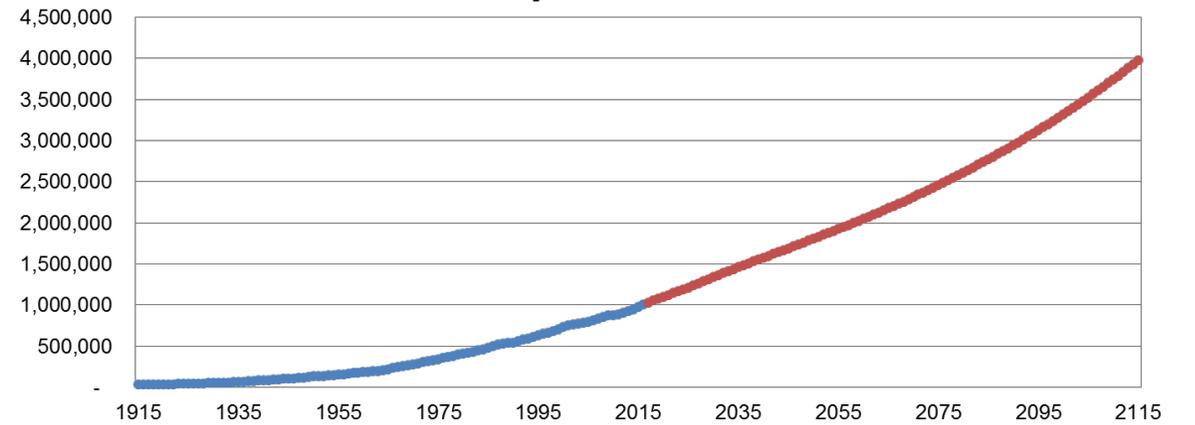
Water Forward 2018: Plan Development & Implementation



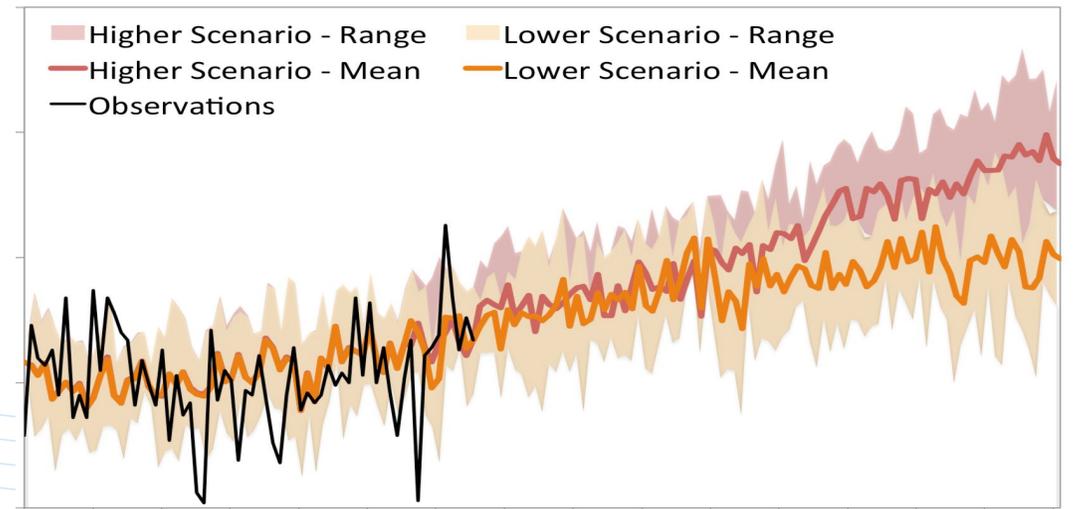
Plan Drivers



Population Growth



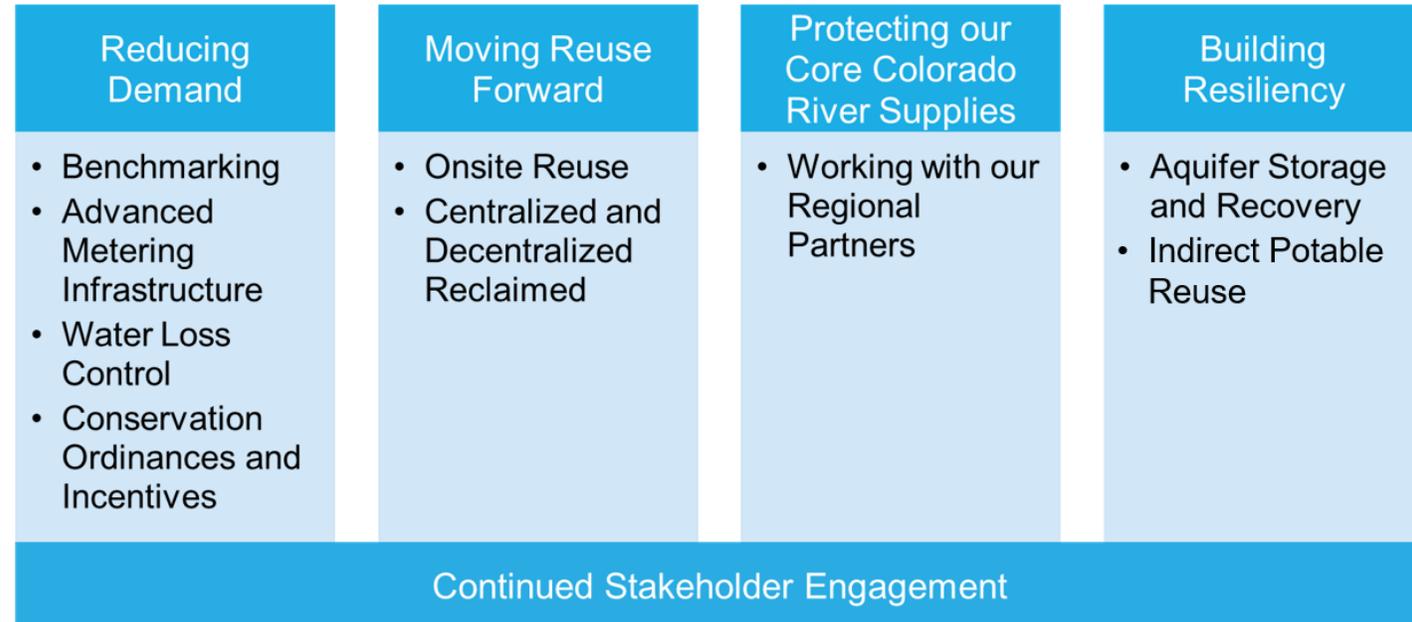
Climate Change



Water Forward 2018

- Developed by Austin Water with the Council-appointed Water Forward Task Force and community input
- Technical work supported by engineering, climate science, and hydrology consultants
- Approved by Council in November 2018

Water Forward 2018 Water Management Strategies



WF18 Implementation Progress



Tactical implementation planning within Austin Water and across City departments

2019

Identification of staffing and resource needs

Consultant procurement process begun for Aquifer Storage and Recovery (ASR) Pilot and Program Management project



My ATX Water Advanced Metering Infrastructure project begun

2020

Onsite Water Reuse System (OWRS) regulatory framework and incentive approved by Council

Execution of consultant contract for ASR Pilot and Program Management project approved by Council



Water benchmarking, onsite water reuse, and extension of reclaimed water connection requirements approved by Council

2021

New Voluntary Reclaimed Water Connection incentive developed

Region K water plan adopted by Texas Water Development Board



WF18 Implementation Progress



ASR preliminary storage zone screening completed and aquifers in Travis, Bastrop, and Lee Counties identified for detailed study

2022

Water Forward 2024 plan update process begun

Development of Irrigation and Landscape Code Changes for New Single-Family Residential Developments begun



My ATX Water meter installs continued, passing the halfway point and reaching ~140,000 installs

2023

Consultant brought on board to review AW's water loss program

Ordinance amendments to codify new OWRS/reclaimed requirements to be brought to Council

Pilot location for ASR to be identified by end of year



ASR field testing to begin
Water Forward 2024 plan update completion anticipated by end of year

2024



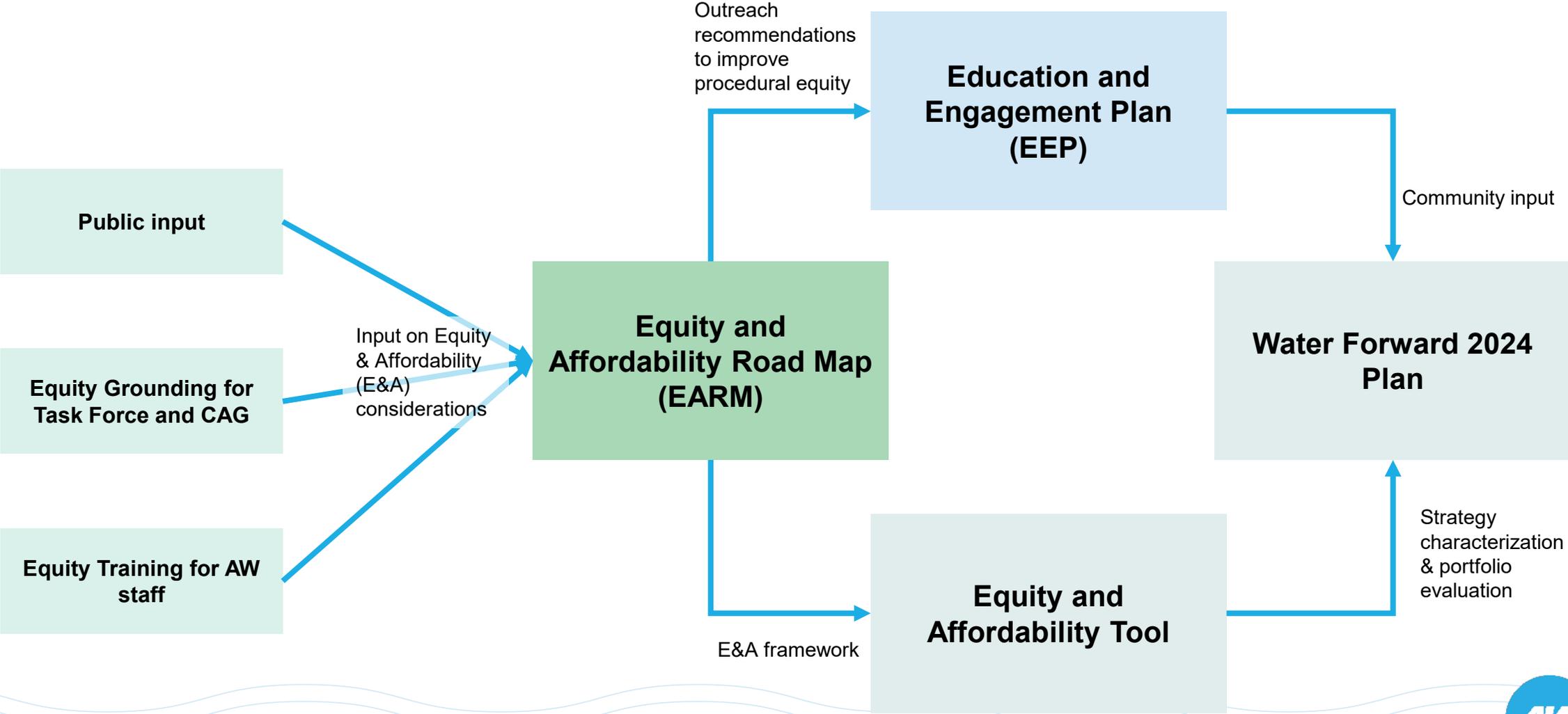
Water Forward 2024: Planning for Uncertainty



WF24 Guiding Principles



Planning with an Equity Lens



Temperature

- Annual mean temperature is projected to increase
- Number of hot days with temperatures above 100°F are projected to increase



Rainfall

- Rainfall distribution is projected to change
- Less frequent and more intense rainfall events are projected



Dry Days

- Number of dry days with precipitation below 0.01" are projected to increase

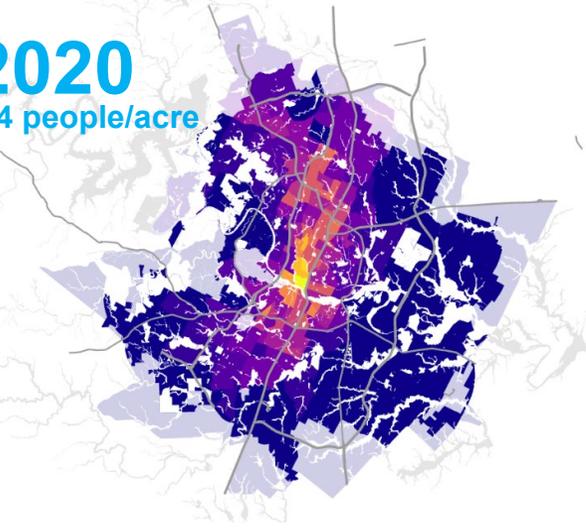


Projected high-level climate trends in the Colorado River basin

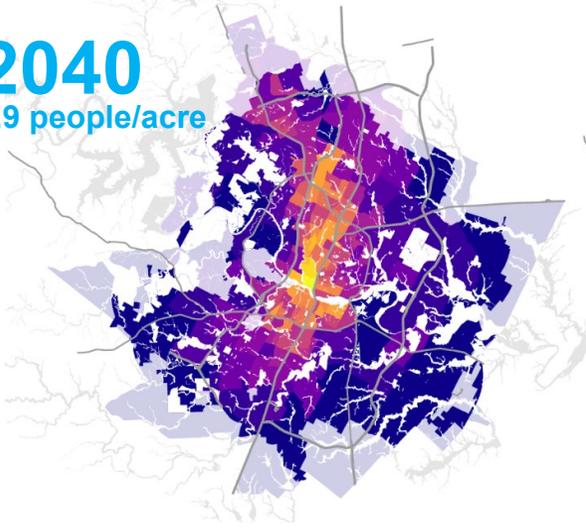


Population Projections

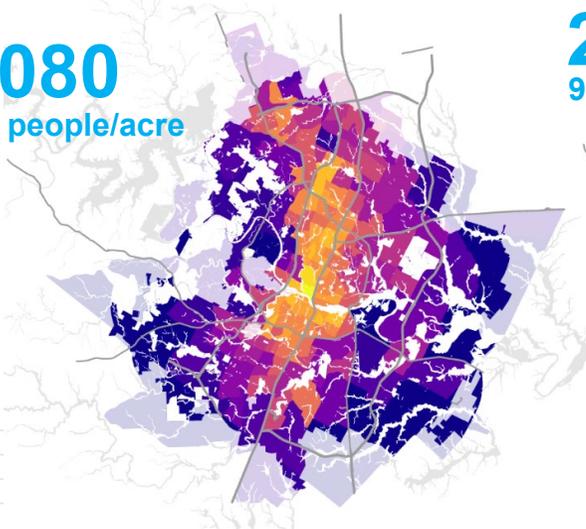
2020
5.4 people/acre



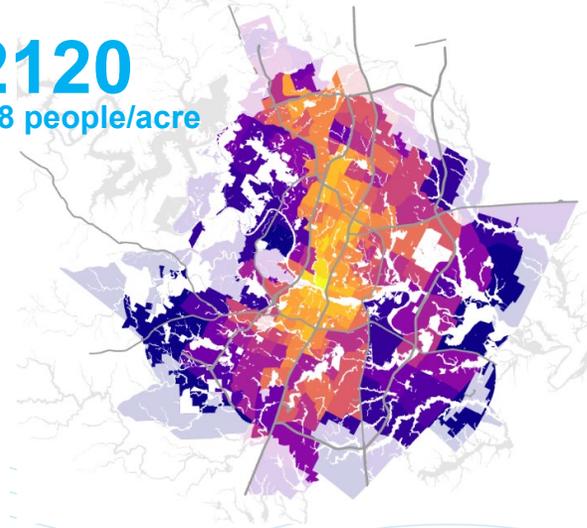
2040
5.9 people/acre



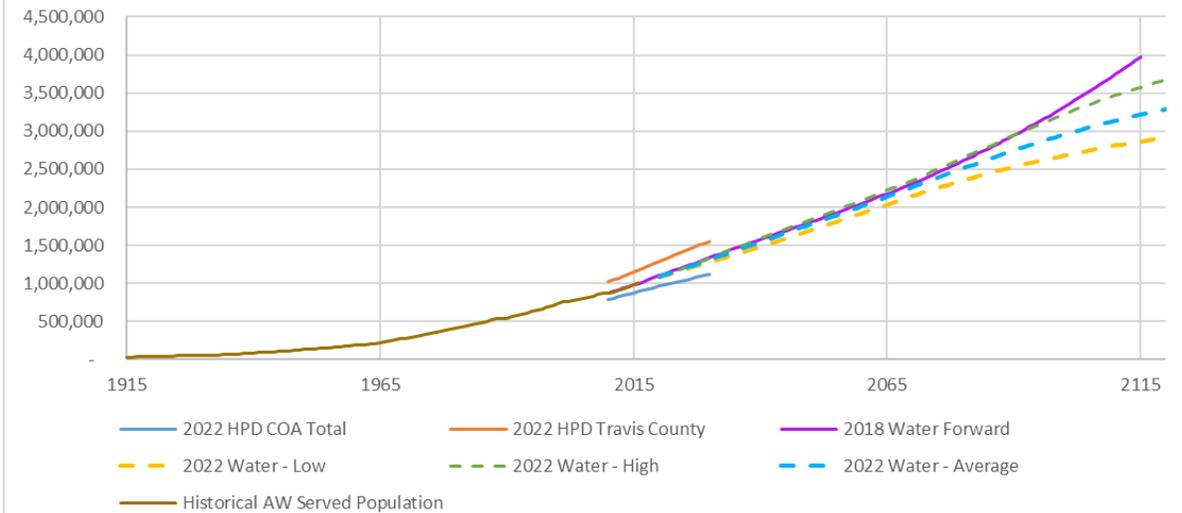
2080
8.4 people/acre



2120
9.8 people/acre

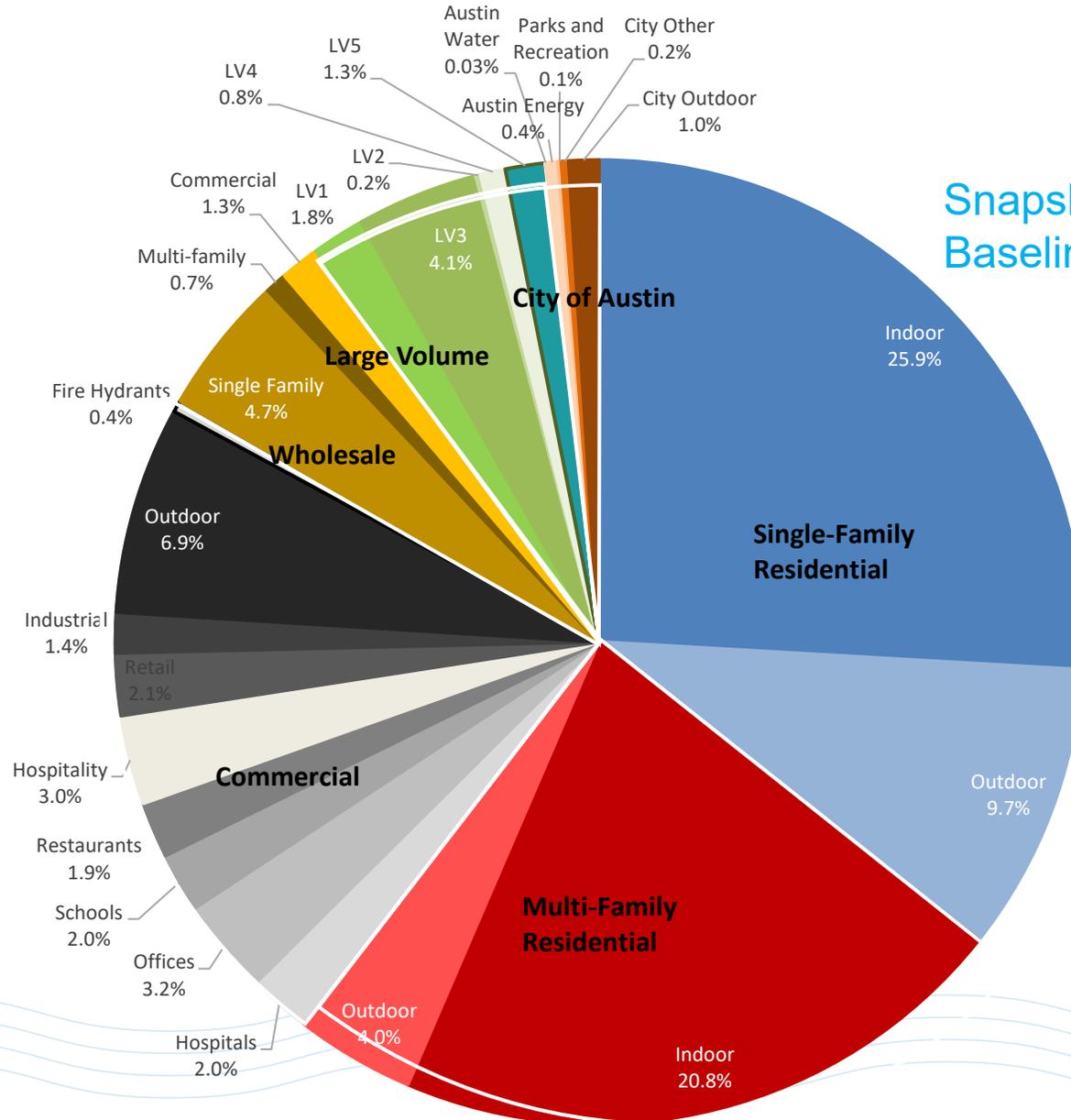


Historical & Projected Retail + Wholesale Water Service Population

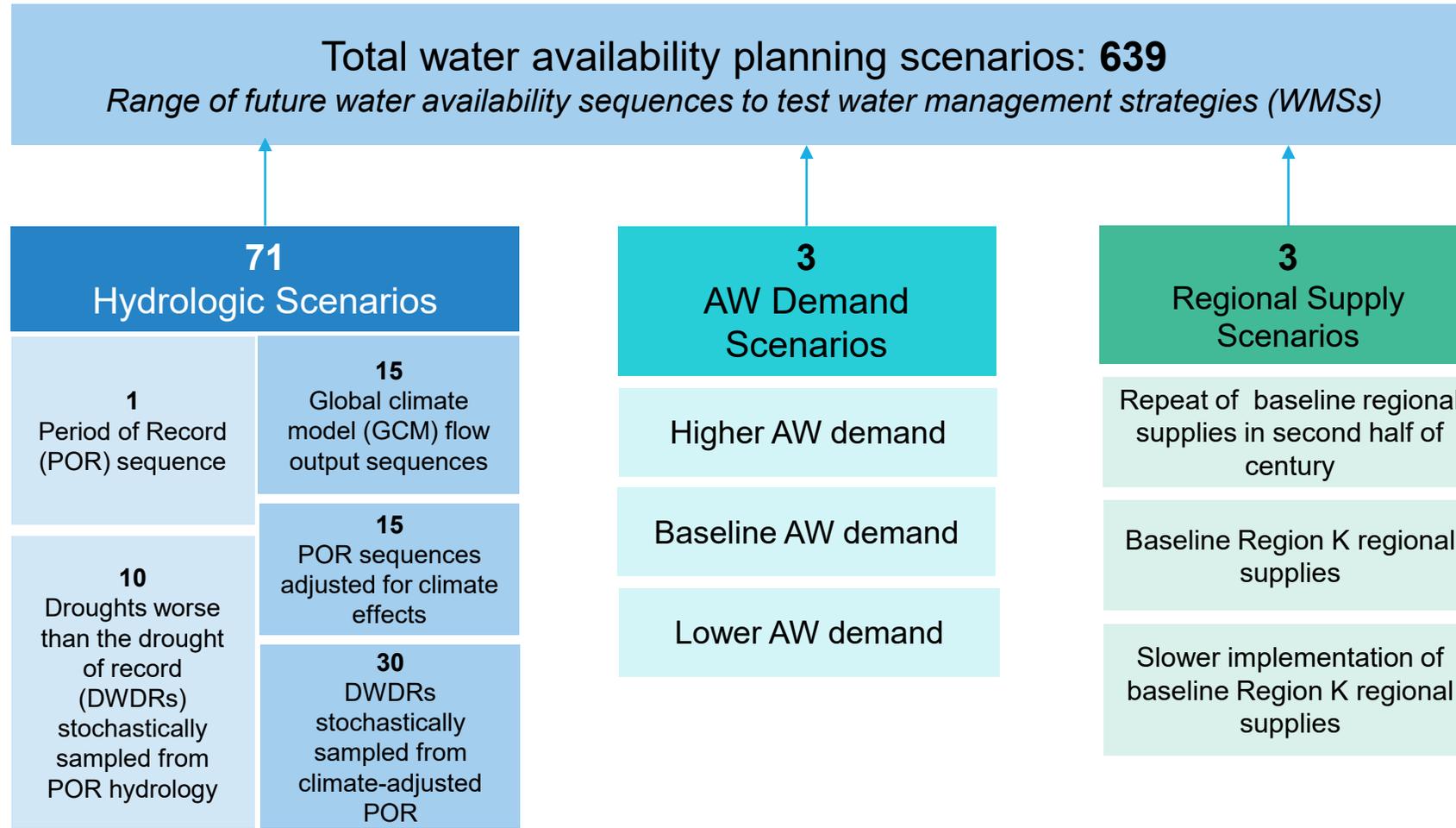


Water Demand Projections

Snapshot of Water Forward 2018
Baseline Year Water Use Breakdown

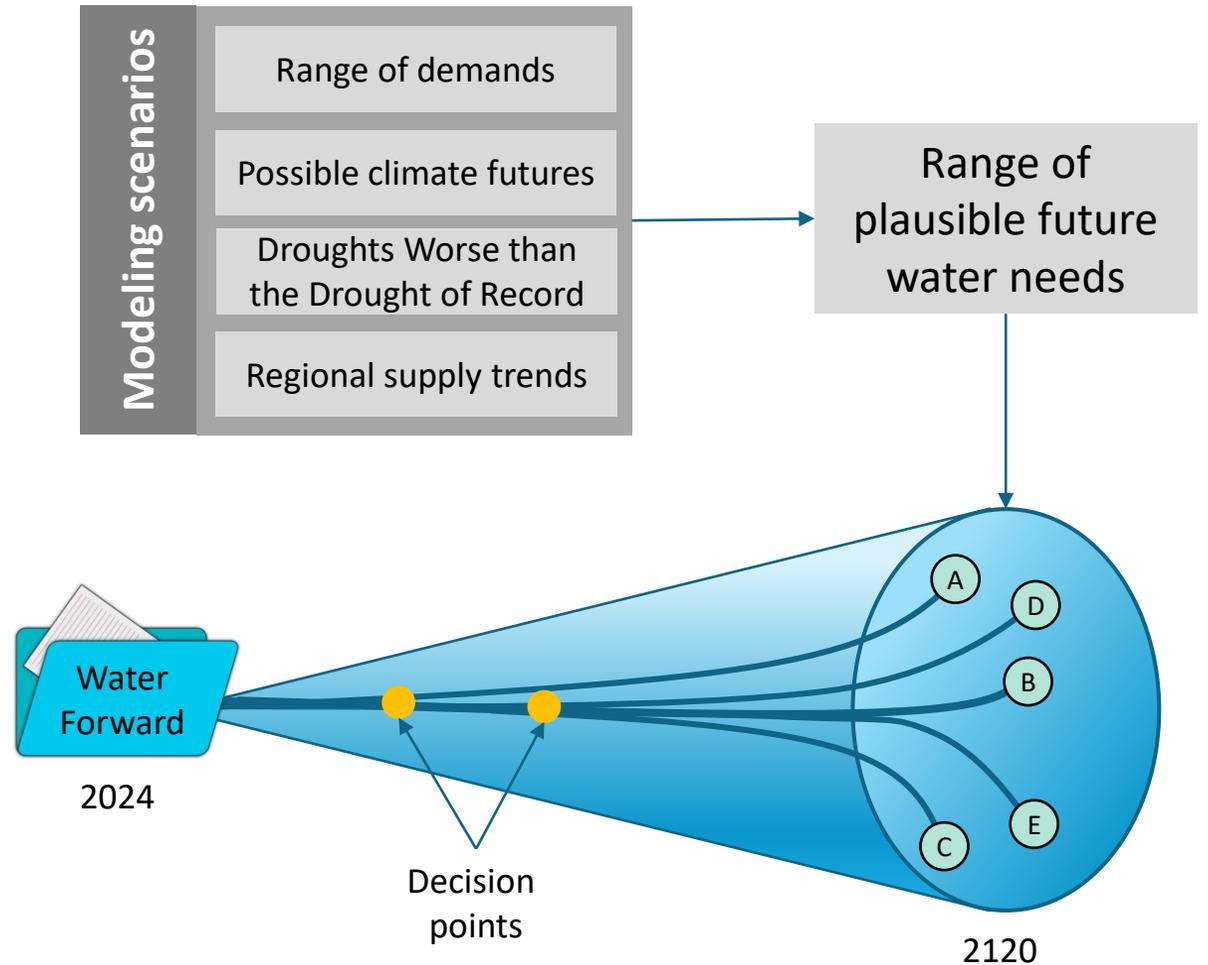


Overview of planning scenarios



Planning for Uncertainty in WF24

- Develop range of futures
- Find common near-term strategies that work for a broad range of futures
- Develop adaptive management plan with key decision points
- Re-evaluate at key decision points



Next Steps

Water Management Strategies (WMS) – Review & Update

- Review WMS from Water Forward 2018
- Gather Water Forward Task Force and community input on WMS
 - Are there any new strategies that we need to consider?
 - Are there other configurations of strategies that we should consider?
- Update characterization of supply, reuse, and conservation strategies
 - Updated costs
 - Updated yield estimates
 - Data for multi-criteria decision making analysis



Near Term Next Steps

- Onsite Water Reuse and Reclaimed Code Requirements
 - Affordability Impact Statement due September 2023
 - Ordinance amendments to codify new OWRS/reclaimed requirements to be brought to Council
- Irrigation and Landscape Code Changes for New Single-Family Residential Developments
 - Planning to host final public meeting and include local amendments in the adoption of the 2024 Uniform Plumbing Code





Thank You

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