



Water Conservation Program FY17 2nd Qtr Update

Resource Management Commission

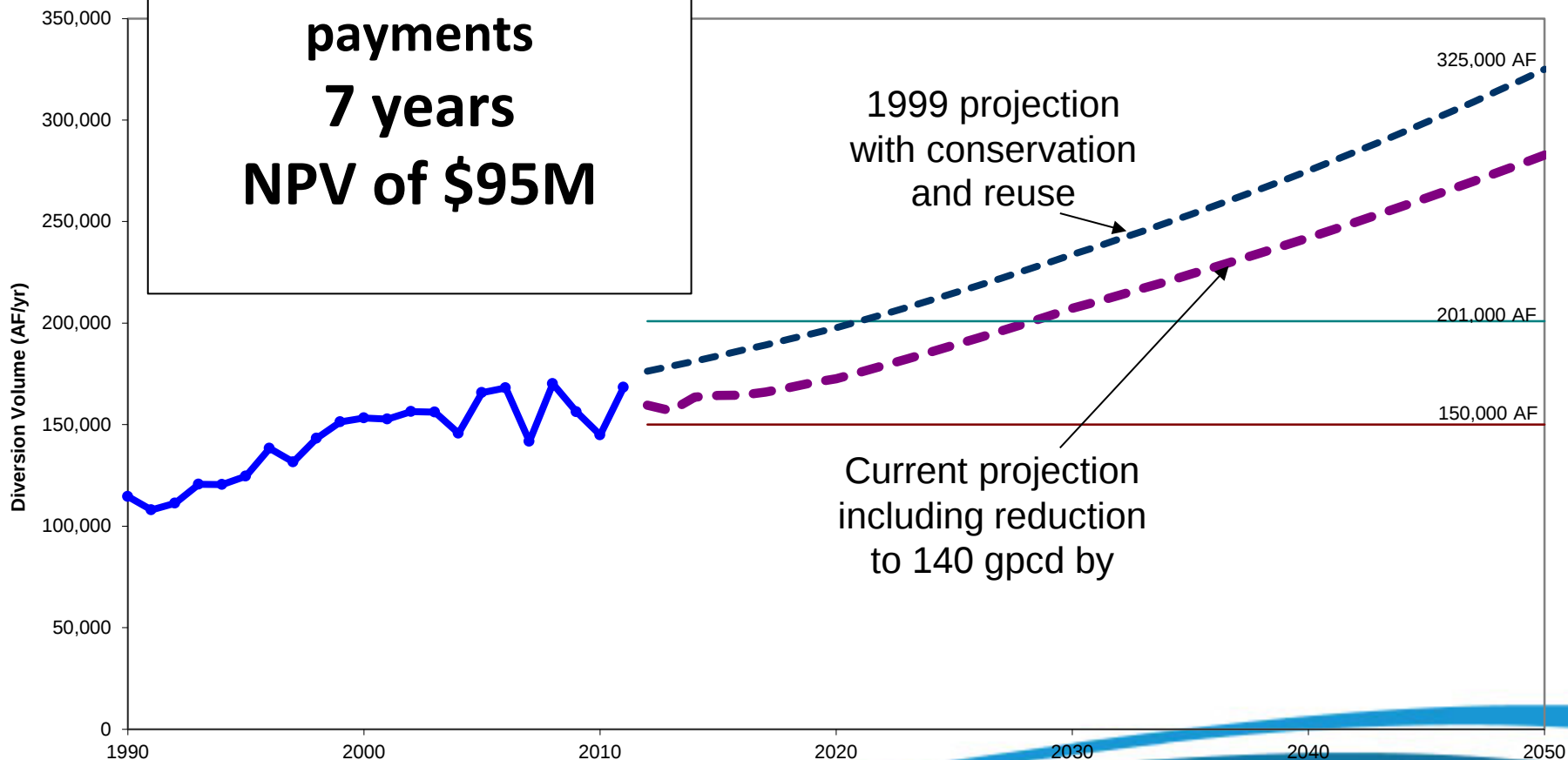
February 21, 2017

Mark Jordan

Conservation Program Coordinator

2011 Demand Projection

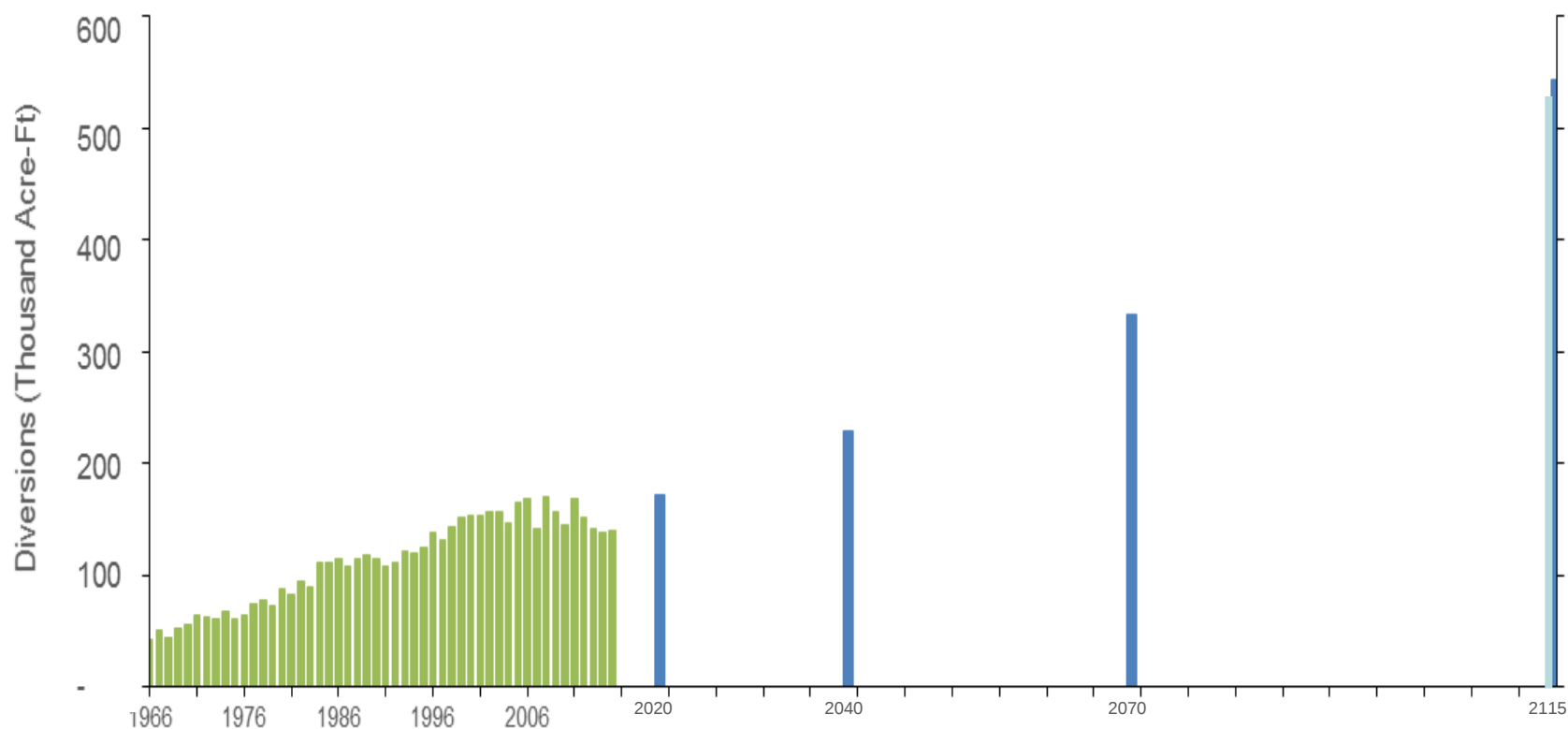
**140 GPCD goal delays
payments
7 years
NPV of \$95M**



2017 Baseline Demand Projection

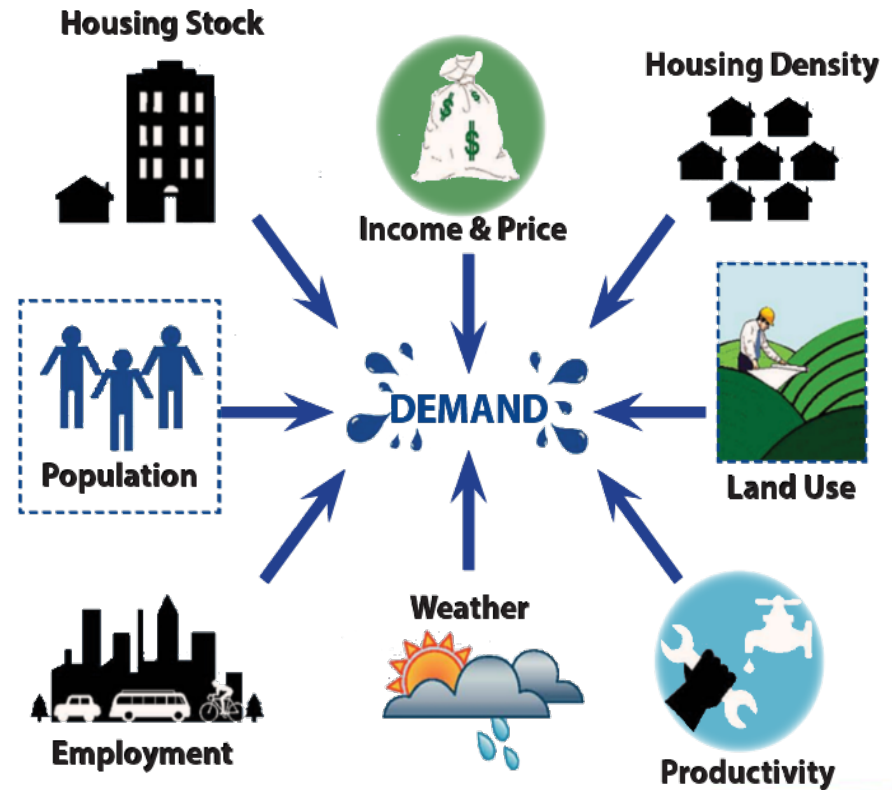
Municipal Diversions

■ Projected Baseline ■ Historical Diversions



What baseline projection includes

- Population and employment growth
- Sector and end uses of water
- Housing Density
- Land uses
- “Passive” conservation
- Weather

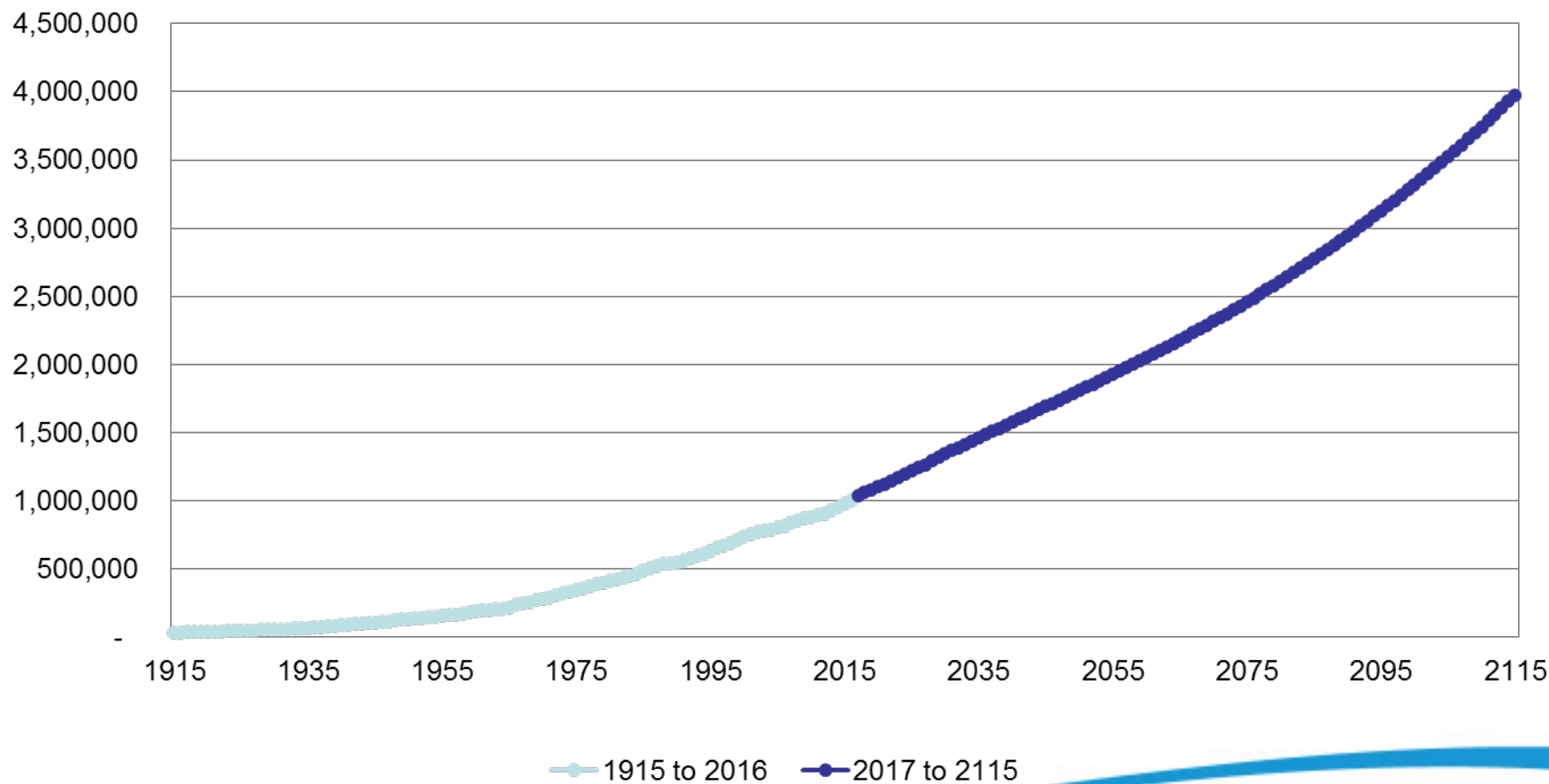


What it doesn't include

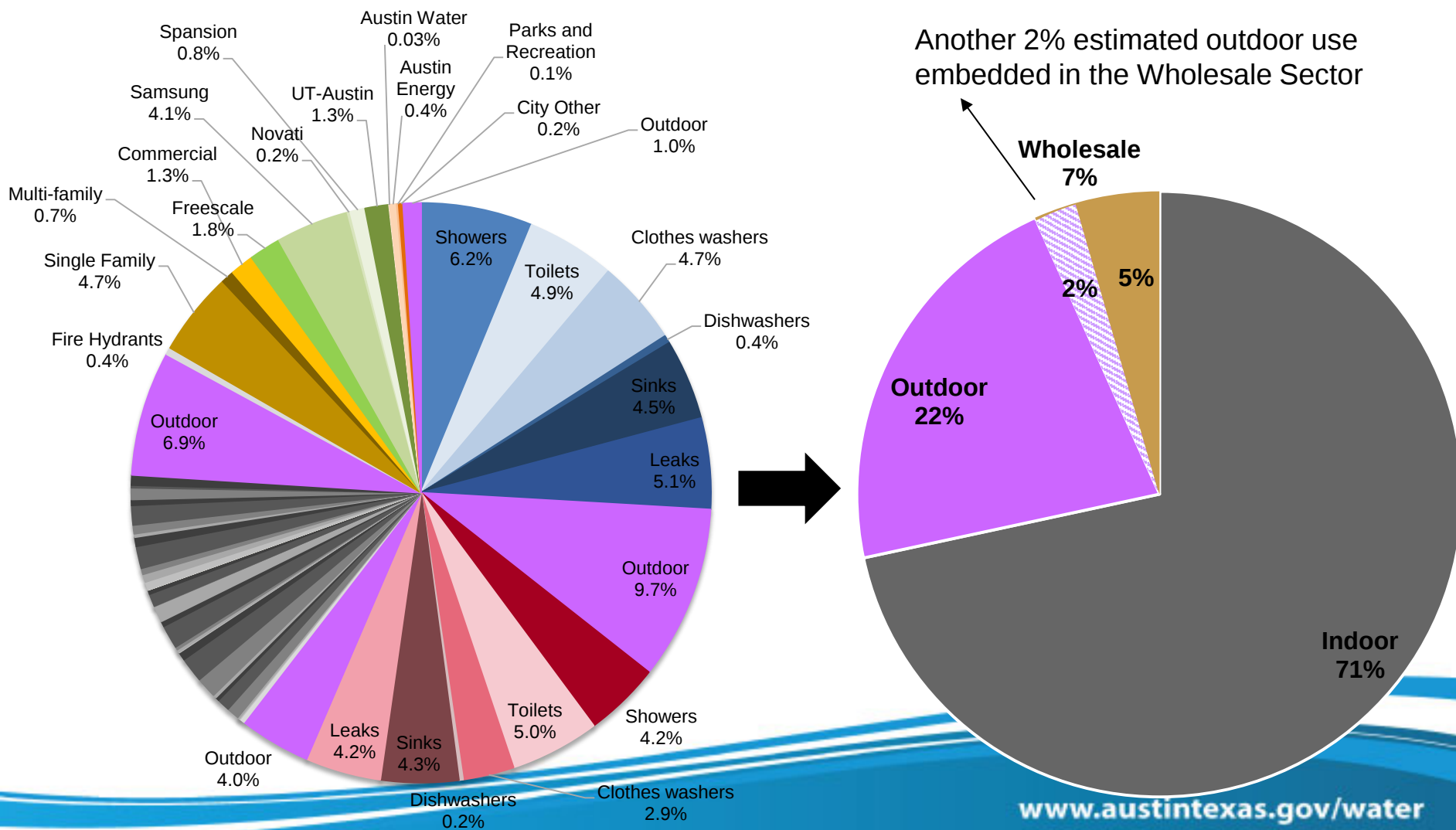
- Potential new conservation programs, ordinances, and other demand strategies
- Technological advances in water efficiency
- Potential new water supplies or other related strategies

Population projection

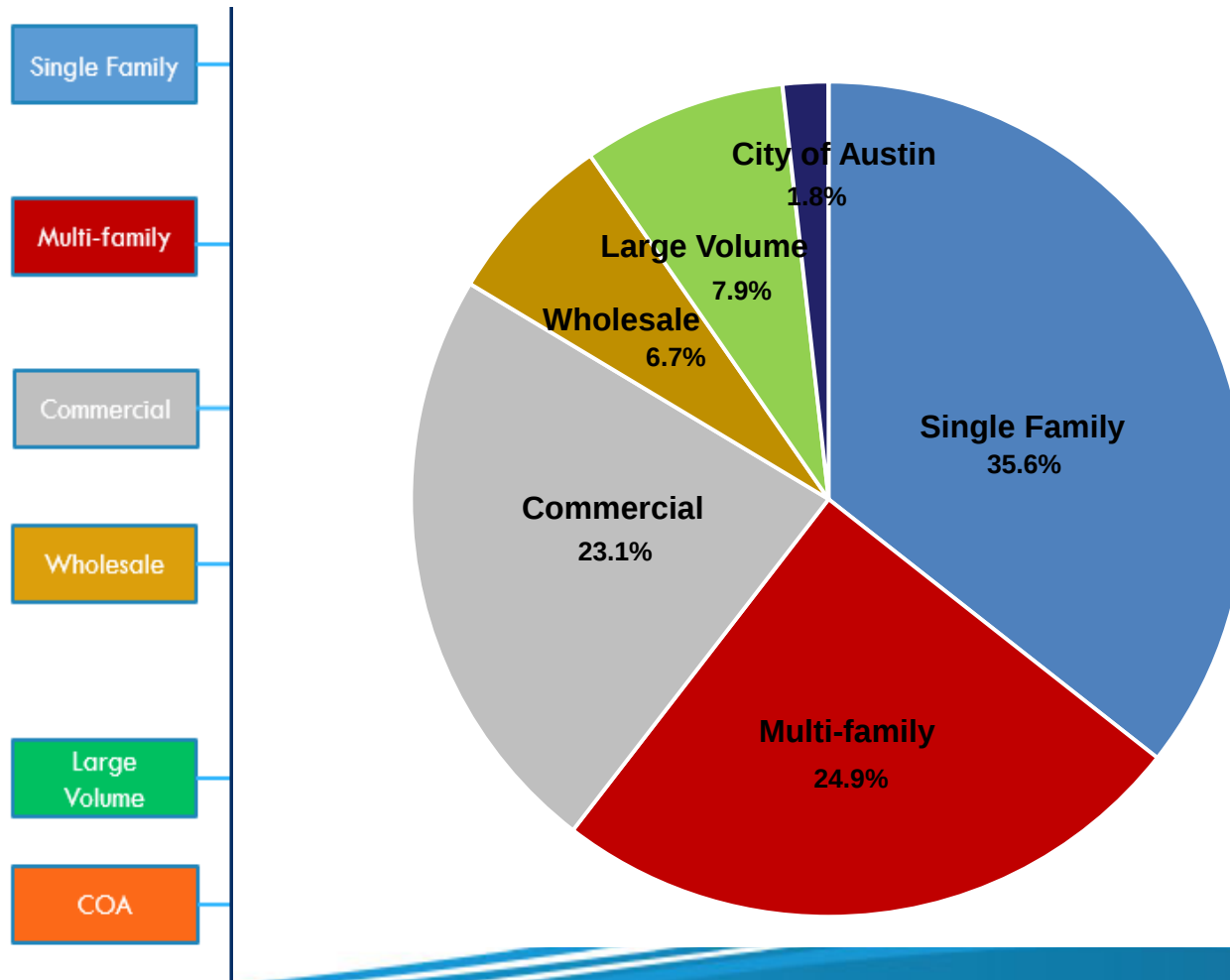
Austin Water Served Population



Indoor vs. Outdoor Consumption

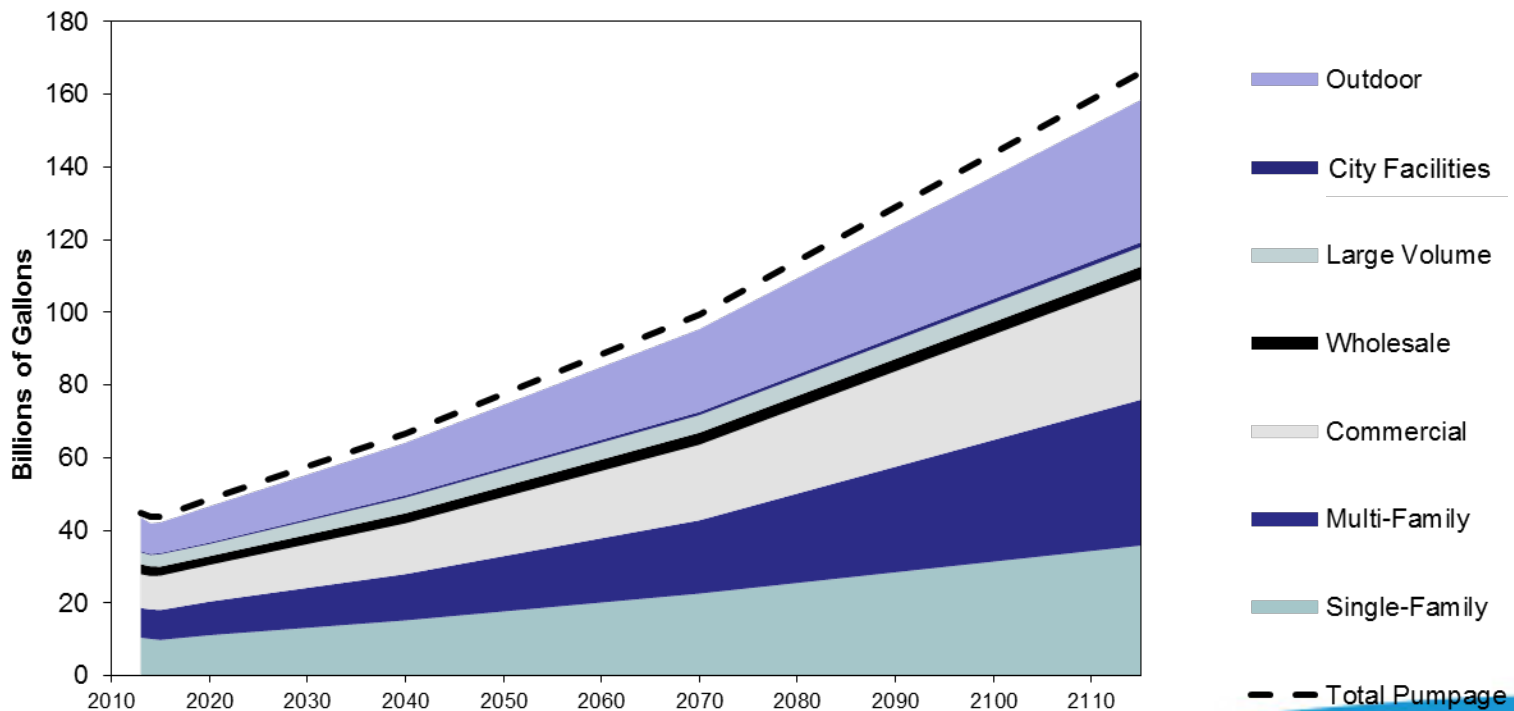


Breakdown of Consumption by Sector



Baseline Demand Projections - Consumption

City-Wide Consumption Projections



Preliminary Demand Management Options

- **Water Loss Control** – reducing water losses in AW's water distribution system through strategies like leak detection, reducing main break response time, and performing water main replacements
- **Automated Metering Infrastructure (AMI)** – New meters that provide real time information on customer water use to help encourage efficient water use and identify possible home leaks or other high uses of water that can be corrected by the homeowner

Preliminary Demand Management Options

- **Landscape Transformation** – ordinances and/or incentives to encourage changing turf to more water efficient landscaping or limit the amount of turf on properties.
- **Irrigation Efficiency** – ordinances and/or incentives to encourage the use of water efficient landscape irrigation systems

Preliminary Demand Management Options

- **Commercial/Institutional/Industrial Conservation**
 - ordinances and/or incentives to encourage more efficient water use for cooling towers/boiler feeds, AC condensate recovery, swimming pools/decorative fountains, as well as disclosure of inefficient water use fixtures at point of sale
- **Plumbing Fixture Efficiency** – ordinances and/or incentives to encourage use of Energy Star and WaterSense labeled equipment, and for replacement of non-water efficient plumbing fixtures

Preliminary Demand Management Options

- **Onsite Reuse of Water for Non-Potable Uses** – ordinances and/or incentives to encourage onsite rainwater harvesting, greywater systems, and dual plumbing (for new developments) in order to reduce the use of drinking water for landscape irrigation and toilet flushing
- **Water Use Benchmarking** – programs to encourage water efficiency benchmarking for new developments and reporting of water use for large building owners

Preliminary Demand Management Options

- **Customer Education/Outreach** – programs that continue to educate AW water customers on the conservation and value of water
- **Water Rates/Water Fees** – explore how changes in water rates and water fees may further encourage water use efficiency while maintaining affordability and equity

Public Input Meetings



INNOVATIVE



INTEGRATED



SUSTAINABLE



RESILIENT



DIVERSIFIED



- **Workshop #1 – September 6**
 - Overview of IWRP and Objectives
- **Focus Group Meetings – January**
 - Landscape/Irrigation/Auxiliary Water/ICI
- **Workshop #2 – February 8:**
 - Future Water Supply Needs and Strategies to Meet Them
- **Workshop #3 – Summer 2017:**
 - Portfolio Themes
- **Workshop #4 – Early 2018:**
 - Draft Plan Recommendations

Public Input

- Should demand management strategies focus on:
 - Indoor or Outdoor End Uses?
 - Residential, Multi-Family or Commercial Sectors?
 - Existing or New Development?
 - Incentives, Regulations, Operations, Pricing, Other?

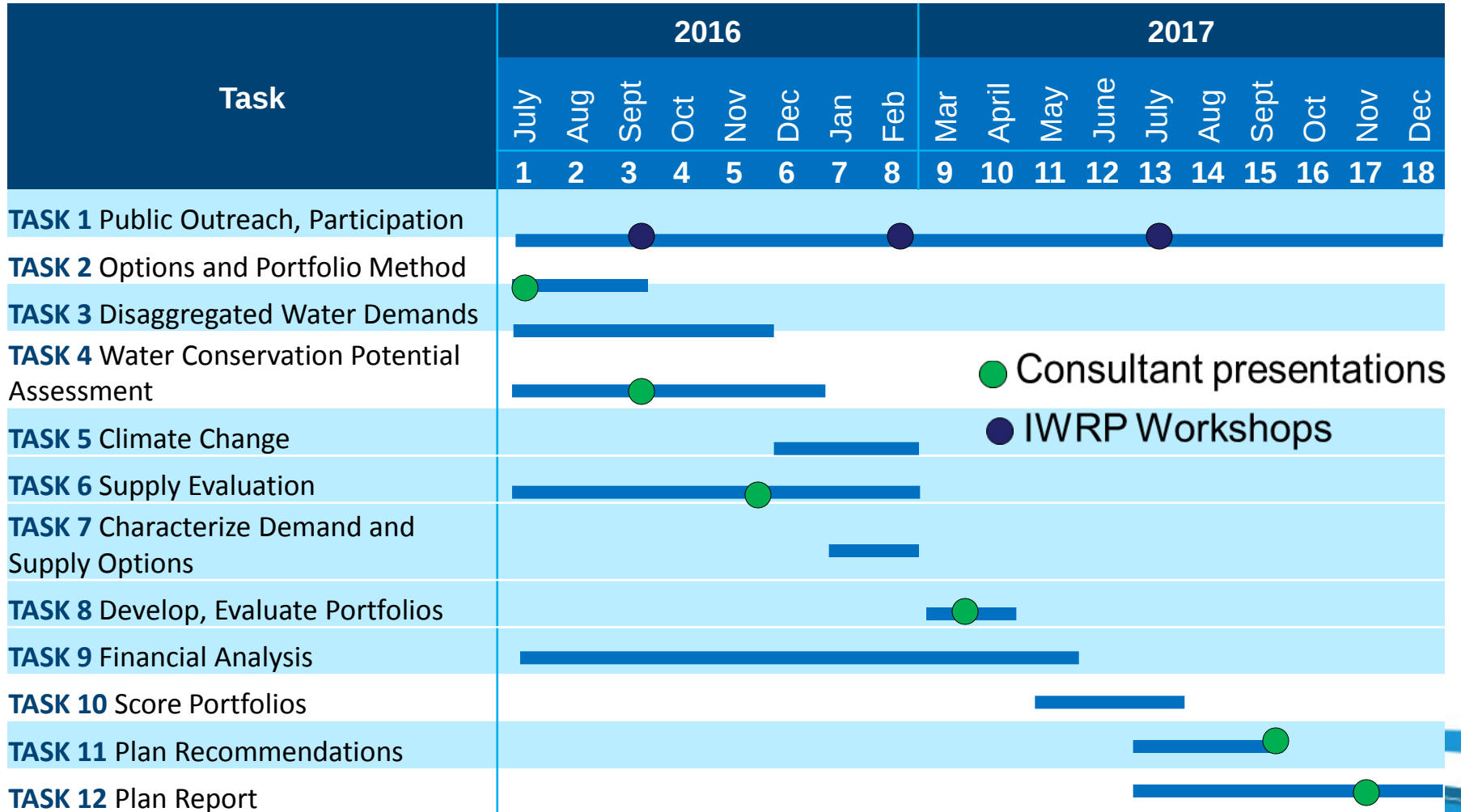
Top Water Demand Measures

- Water loss control
- AMI and customer portals with alerts
- Landscape transformation and irrigation efficiencies
- Alternative water supply and reuse
 - Customer Scale (on-site systems)
- Pre-development water evaluations
- Cooling tower efficiency standards

Next Steps

- Develop cost and yield data for existing and selected new strategies
- Conduct economic benefit/cost assessment
- Establish performance benchmarks
- Rank/score using selection
- Consider with supply strategies to develop integrated water resources plan

Project Schedule





Mark Jordan

Water Conservation Program Coordinator

(512) 974-3901

mark.jordan@austintexas.gov

www.waterwiseaustin.org