

Austin Integrated Water Resource Planning Community Task Force Packet Index

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Austin Integrated Water Resource Planning Community Task Force
December 13, 2016 2:00 – 4.00 p.m.
Glen Bell Service Center, Rm 134
Tom Medders Training Rm,
3907 S. Industrial Drive
Austin, Texas 78744

For more information go to:
Austin Integrated Water Resource Planning Community Task Force

AGENDA

Voting Members:

Sharlene Leurig - Chair Marianne Dwight Sarah Richards

Jennifer Walker – Vice Chair Diane Kennedy Lauren Ross

Todd Bartee Perry Lorenz Kate Zerrenner

Clint Dawson Bill Moriarty

Ex Officio Non-Voting Members: Austin Water: Greg Meszaros

Austin Energy: Kathleen Garrett

Austin Resource Recovery: Sam Angoori

Neighborhood Housing and Community Development: Rebecca Giello

Office of Innovation: Kerry O'Connor Office of Sustainability: Lucia Athens Parks and Recreation: Sara Hensley Watershed Protection: Mike Personett

1. CALL TO ORDER - December 13, 2016, 2:00 p.m.

2. CITIZEN COMMUNICATION

The first 10 speakers signed up prior to the meeting being called to order will each be allowed a three-minute allotment to address their concerns regarding items not posted on the agenda.

3. APPROVAL OF MEETING MINUTES

a. Approval of the meeting minutes from the December 6, 2016 Task Force meetings (5 minutes)

Austin Integrated Water Resource Planning Community Task Force Regular Meeting December 13, 2016

4. STAFF BRIEFINGS, PRESENTATIONS, AND OR REPORTS

- a. Disaggregated Demand Model Overview City Staff and Consultant (joining remotely) (60 minutes)
 i. Task Force Discussion and Input
- 5. SUBCOMMITTEE REPORTS
- 6. VOTING ITEMS FROM TASK FORCE
- 7. FUTURE AGENDA ITEMS
- 8. ADJOURN

Note: Agenda item sequence and time durations noted above are subject to change.

The City of Austin is committed to compliance with the American with Disabilities Act. Reasonable modifications and equal access to communications will be provided upon request. Meeting locations are planned with wheelchair access. If requiring Sign Language Interpreters or alternative formats, please give notice at least 2 days (48 hours) before the meeting date. Please call Austin Integrated Water Resource Planning Community Task Force, at 512-972-0194, for additional information; TTY users route through Relay Texas at 711.

For more information on the Austin Integrated Water Resource Planning Community Task Force, please contact Marisa Flores Gonzalez at 512-972-0194.





The Austin Integrated Water Resource Planning Community Task Force convened in a regular meeting on December 6, 2016 at 625 East 10th Street, Room 104, in Austin, Texas.

Members in Attendance:

Sharlene Leurig - Chair Diane Kennedy Bill Moriarty
Clint Dawson Sarah Richards Lauren Ross

Ex-Officio Members in Attendance:

Greg Meszaros, Mike Personett, Lucia Athens, Kathleen Garrett

Staff in Attendance:

Kevin Critendon, Daryl Slusher, Teresa Lutes, Joe Smith, Marisa Flores Gonzalez, Mark Jordan, Chris Chen, Liz Johnson, Ginny Guerrero, Jeff Fox, Heather Cooke, Katherine Jashinski

Additional Attendees:

Katharine Hayhoe, Richard Hoffpauir, Ron Anderson, Leonard Oliver, Mary Ann Neely, Craig Smith, John Burke, Bill Bunch

1. CALL TO ORDER

Sharlene Leurig, Chair, called the meeting to order at 6:06 p.m.

2. CITIZEN COMMUNICATION: GENERAL

3. APPROVAL OF MEETING MINUTES

The meeting minutes from the October 4, 2016 Austin Integrated Water Resource Planning Community Task Force regular meeting were approved on Member Richard's motion and Member Dawson's second on a 5-0-1-5 vote with Member Moriarty abstaining and Members Zerrenner, Walker, Bartee, Dwight, and Lorenz absent.

4. STAFF BRIEFINGS, PRESENTATIONS, AND/OR REPORTS

a. Draft Climate Change and Hydrology Analysis Results presentation was provided by Katherine Hayhoe, Ph.D., ATMOS Research. This briefing was followed by a Task Force discussion including questions and answers.

5. SUBCOMMITTEE REPORTS

 Written Public Outreach and Code Subcommittee Reports were provided in Task Force Member Packets.

6. VOTING ITEMS FROM TASK FORCE

a. The proposed 2017 Task Force meeting schedule was approved on Member Moriarty's motion and Member Dawson's second on a 6-0-0-5 vote with Members Zerrenner, Walker, Bartee, Dwight, and Lorenz absent.

10. FUTURE AGENDA ITEMS

None

Chair Leurig adjourned the meeting at 7:59 pm.





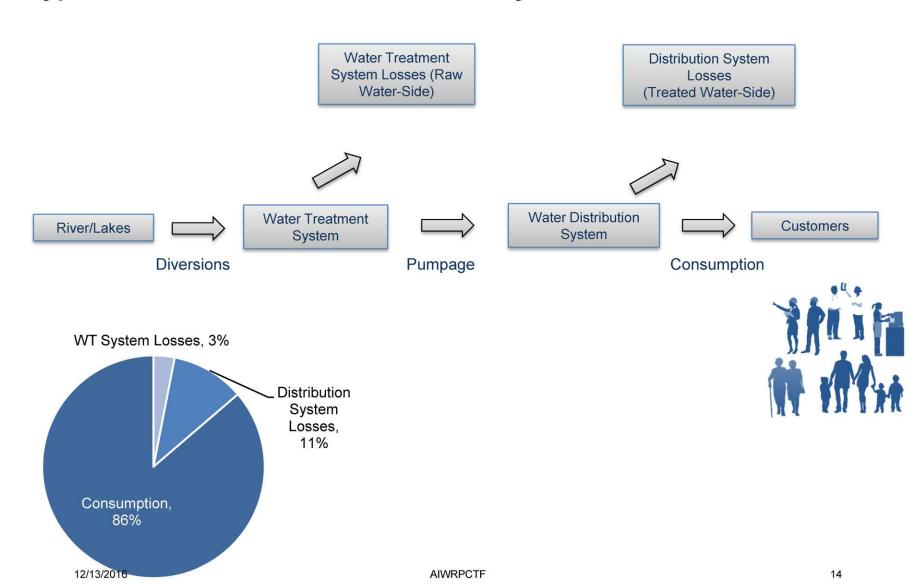


Outline

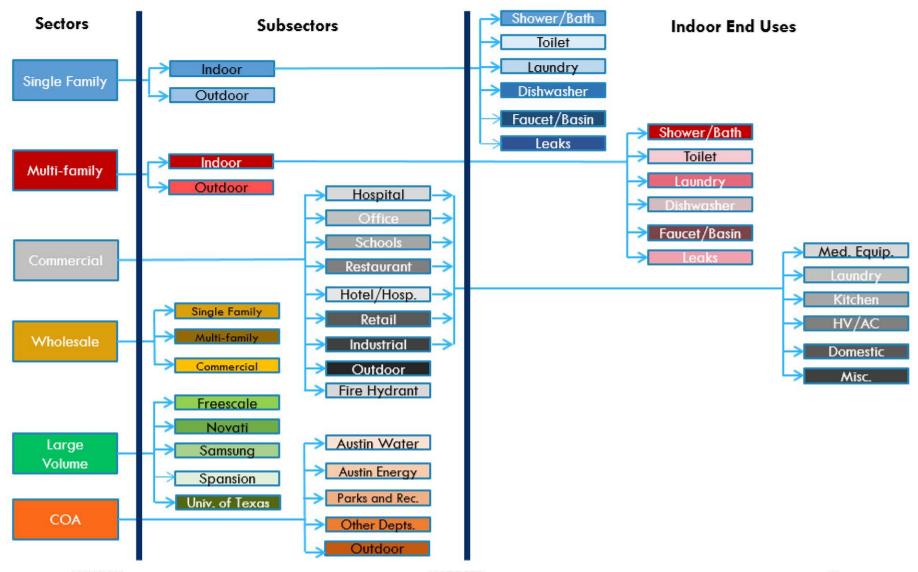
- What does the model do?
- How does the model work?
- Preliminary results from the model
- How will the model be used?
- Next steps

What Does The Model Do?

Typical Water-Flow In Austin's Water System

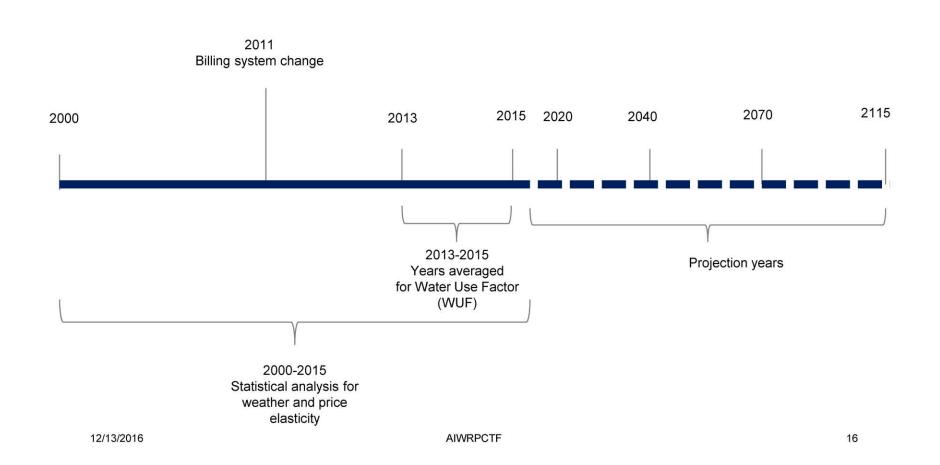






December 13, 2016

Analysis Timeline

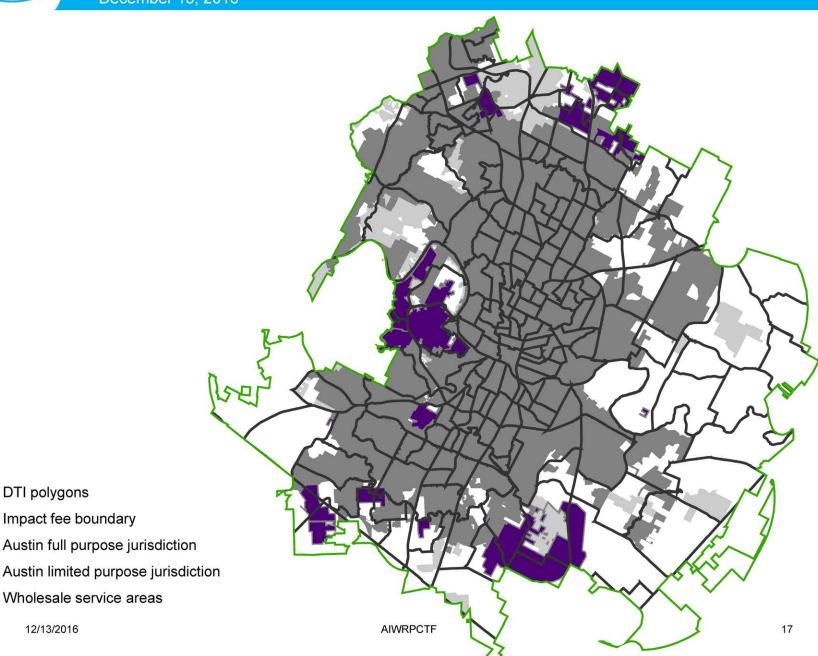


DTI polygons

12/13/2016

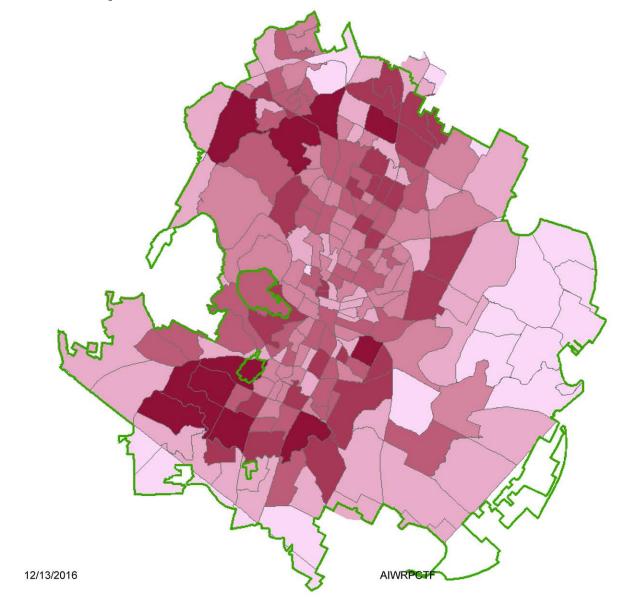
Impact fee boundary

Disaggregated Demand Model

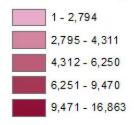


How Does The Model Work?

Served Population Distribution 2010

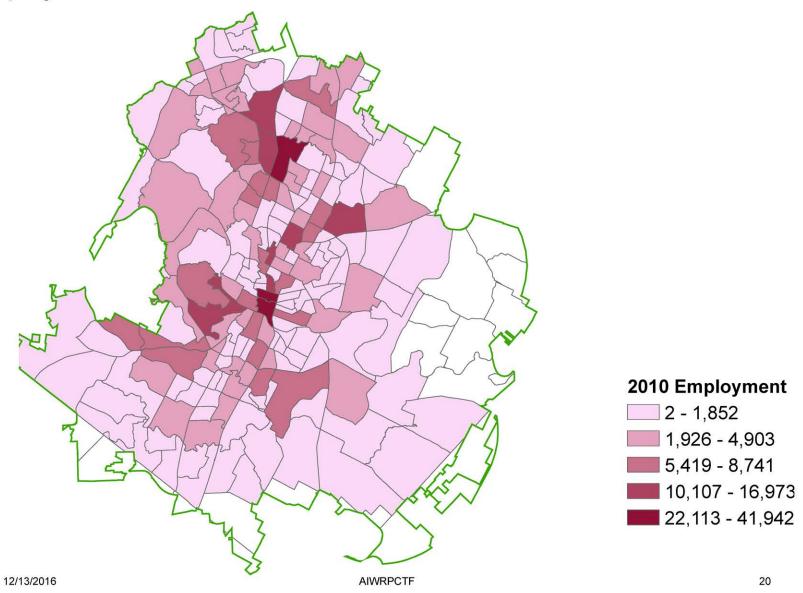


2010 Served Population

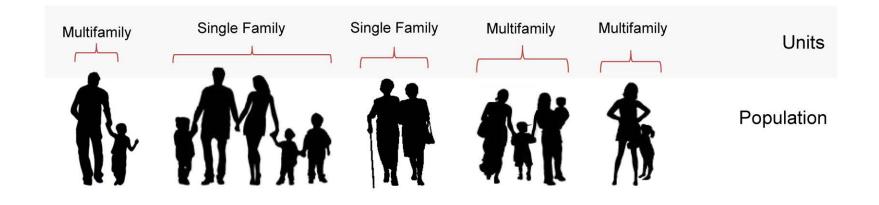


Employment Distribution 2010

Austin











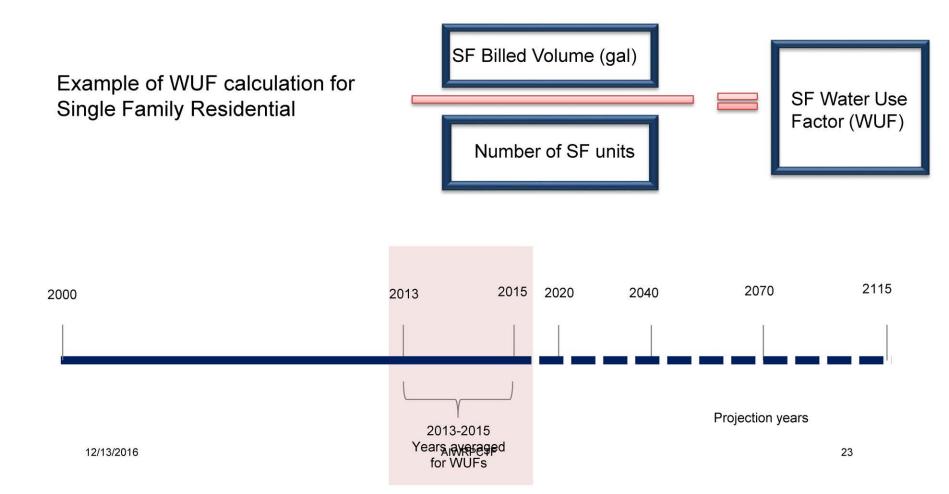
December 13, 2016

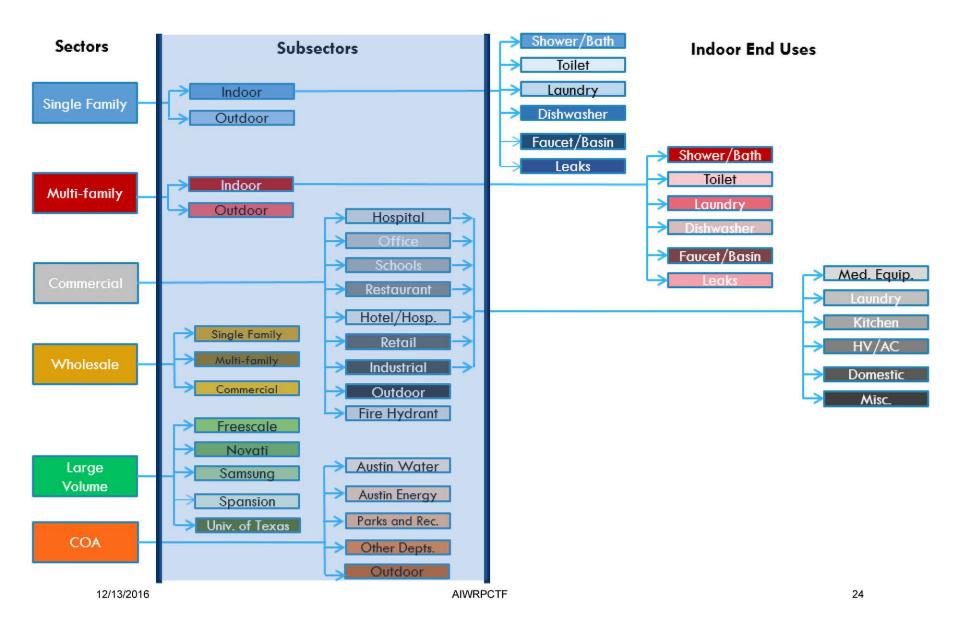
Water Use Factor Development

Eg: DTI polygon 89

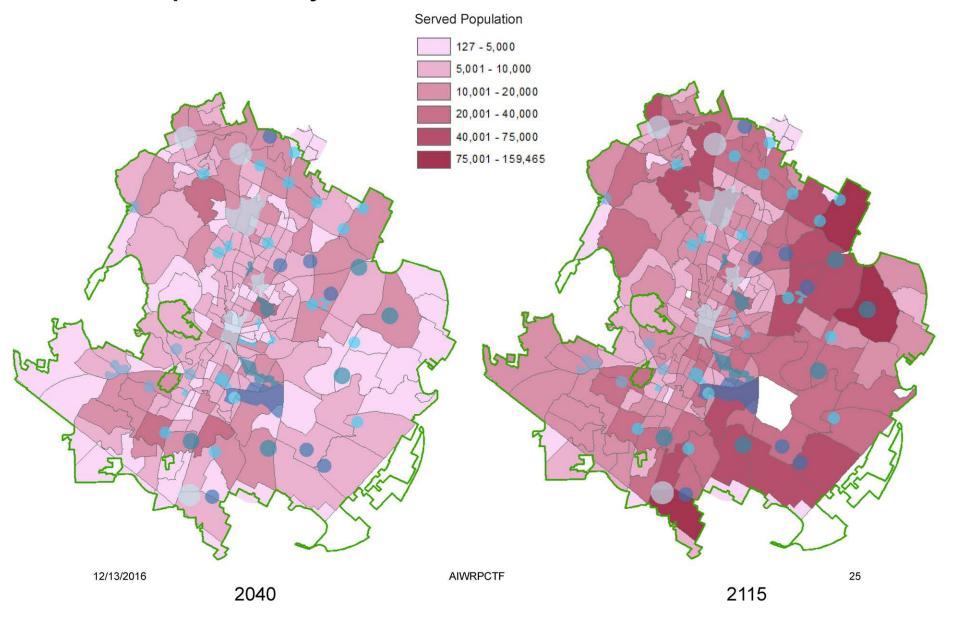


Water Use Factor (WUF) Calculation

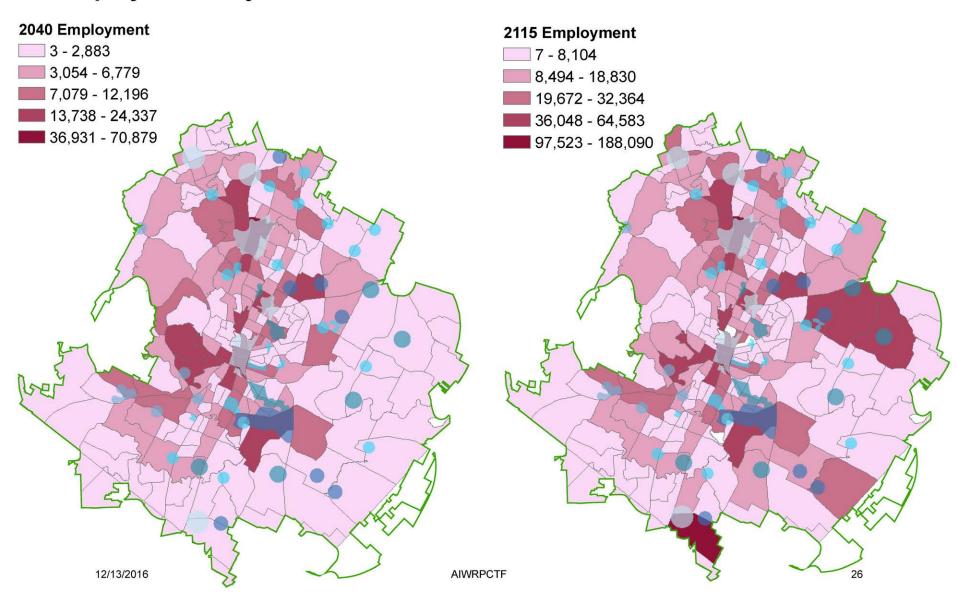




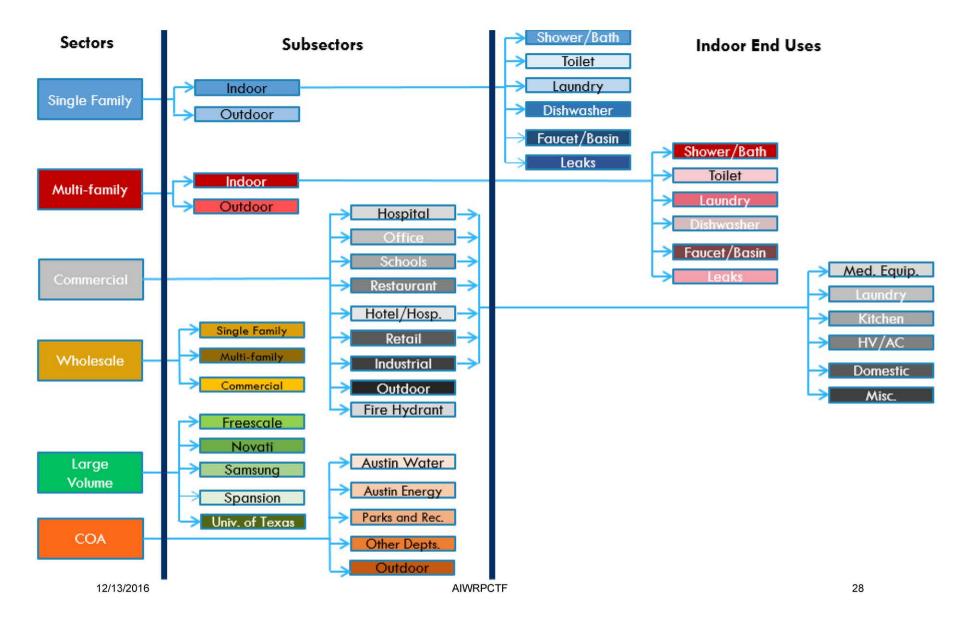
Served Population Projections



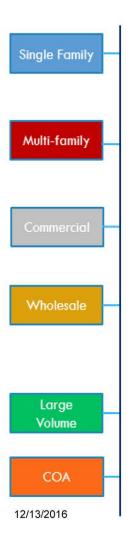
Employment Projections for 2040 and 2115

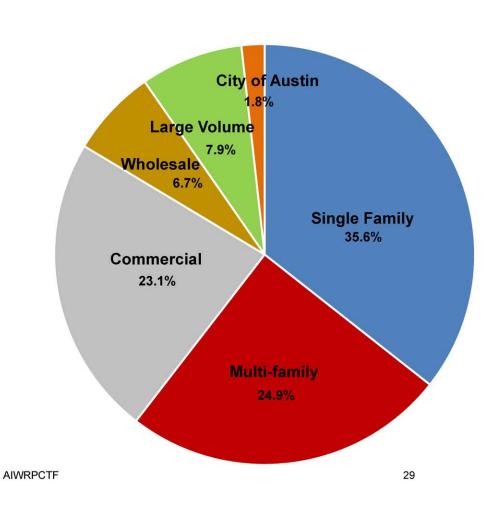


Preliminary Results From the Model

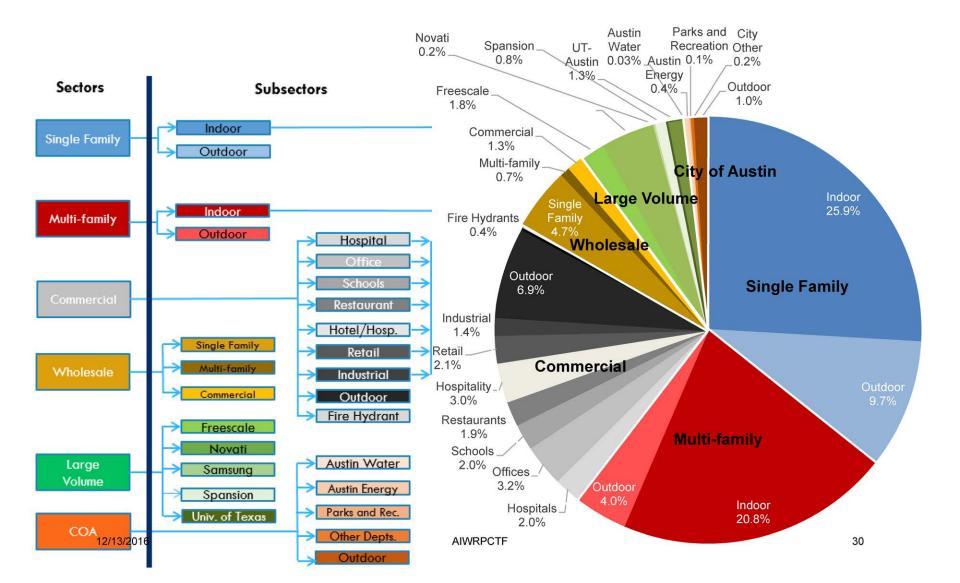


Base Year Consumption Sectors



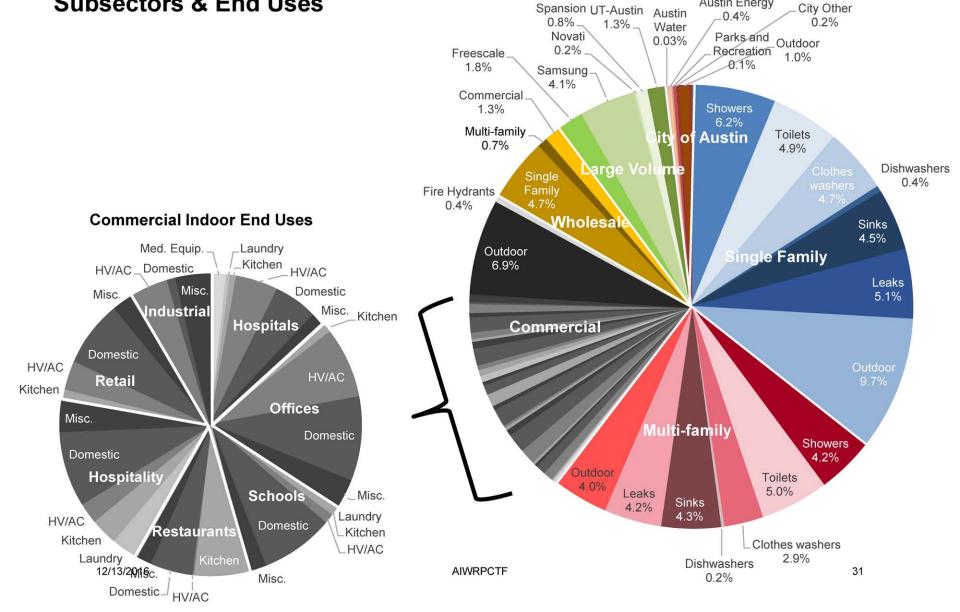


Base Year Consumption Subsectors



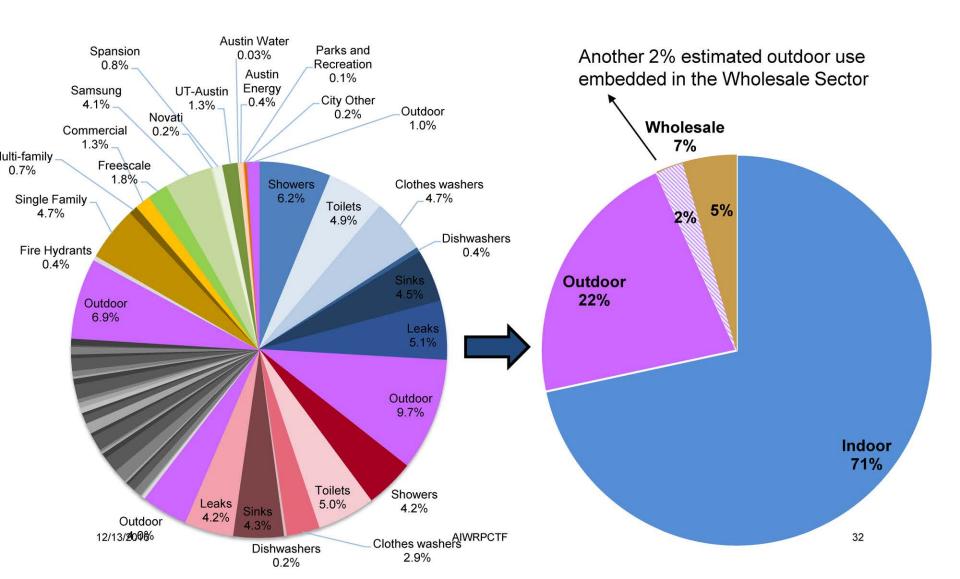
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Base Year Consumption Subsectors & End Uses



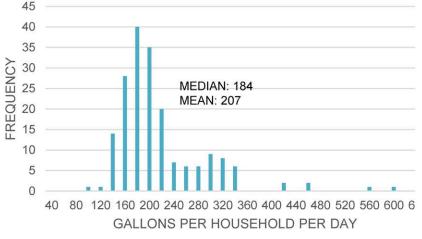
Austin Energy

Indoor vs. Outdoor Consumption



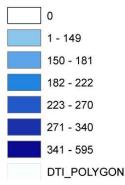
Base Year Single Family Daily Household Consumption

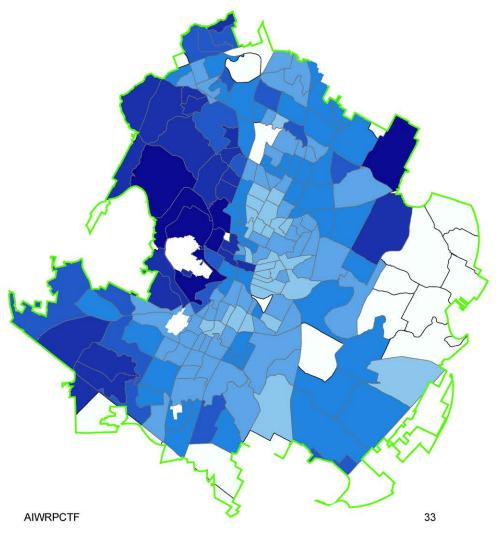


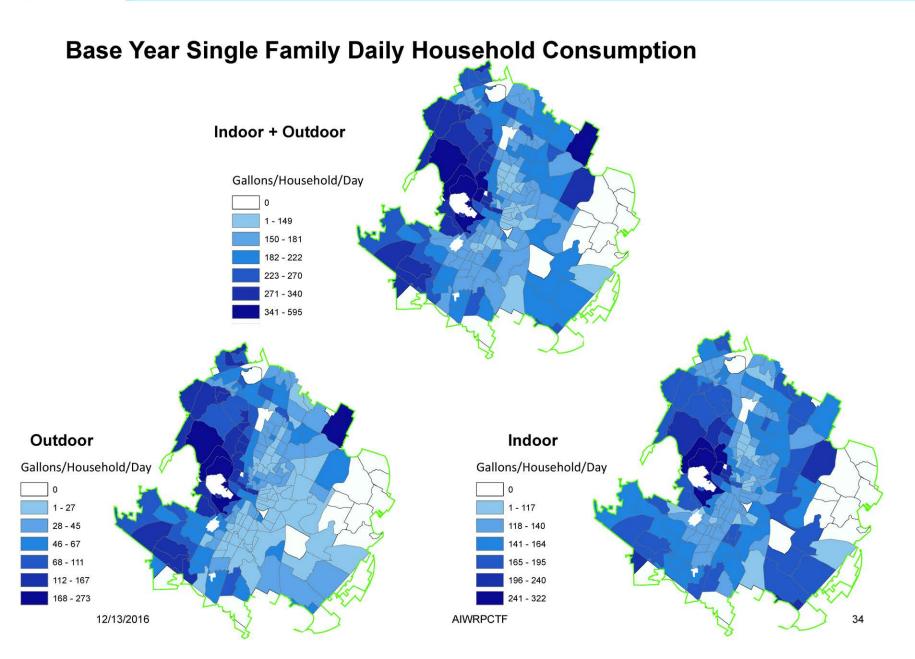


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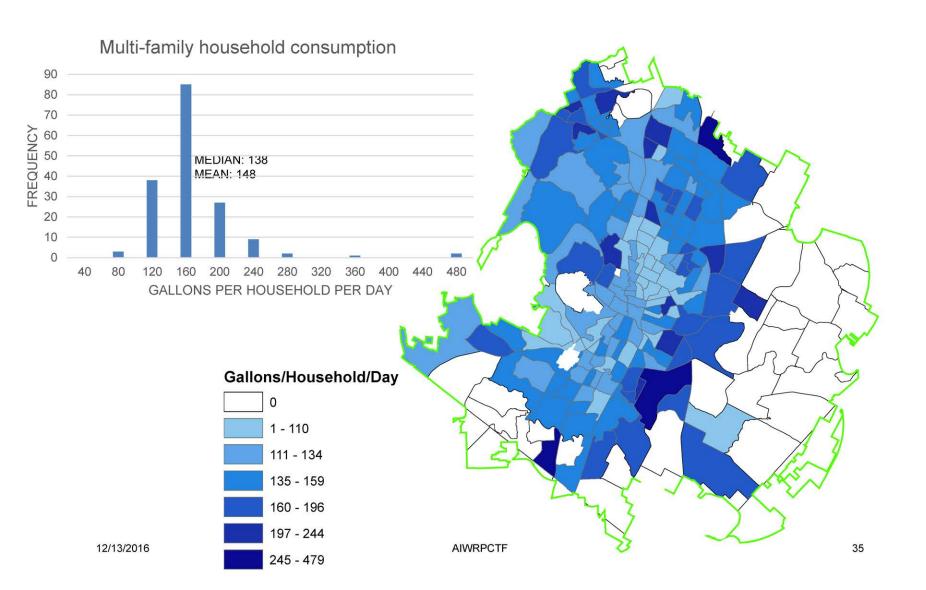
Gallons/Household/Day



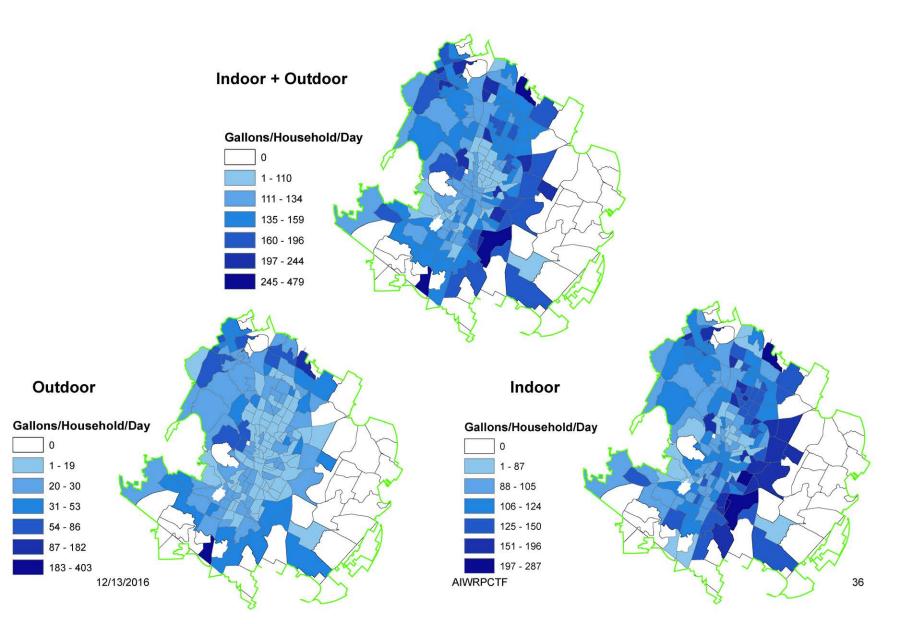


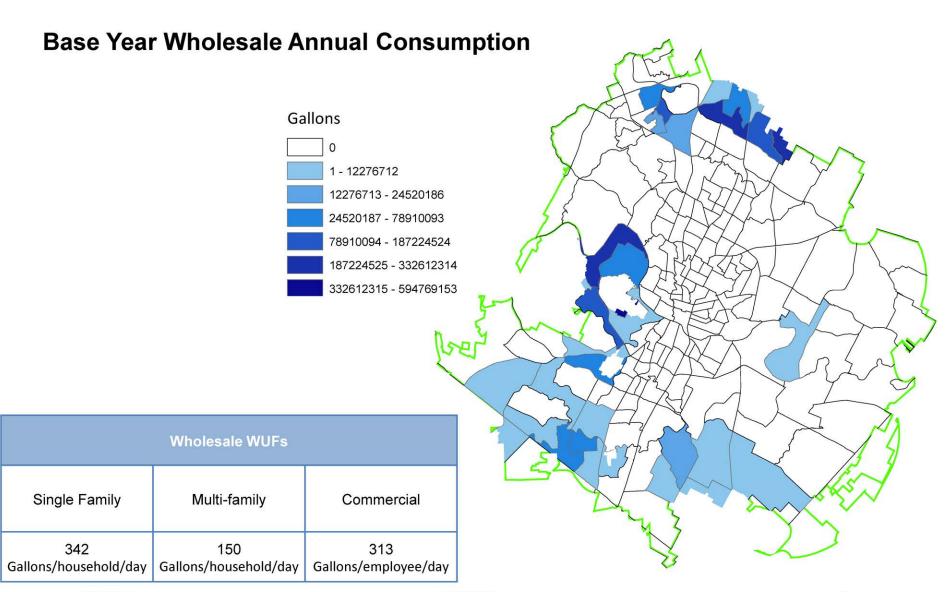


Base Year Multi-Family Daily Household Consumption

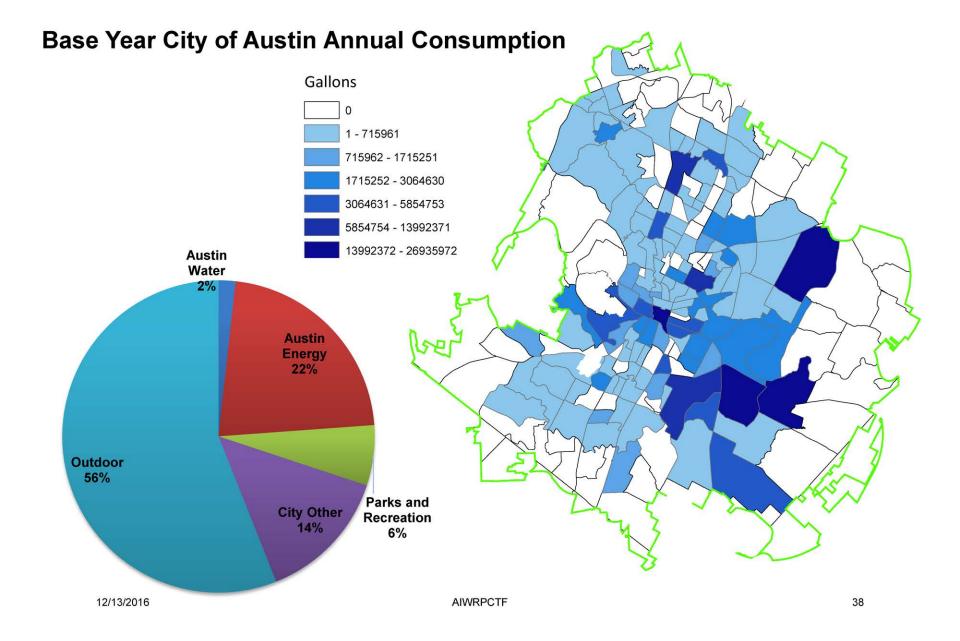


Base Year Mutli-Family Daily Household Consumption









Base Year Commercial Annual Consumption

Total Consumption (Gallons/Year)

205,767 - 31,642,622

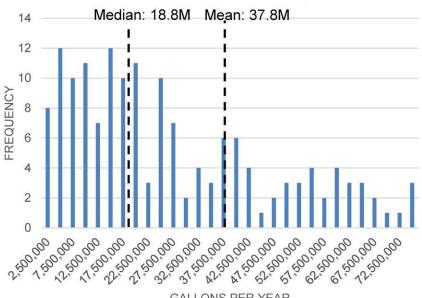
33,485,570 - 78,989,262

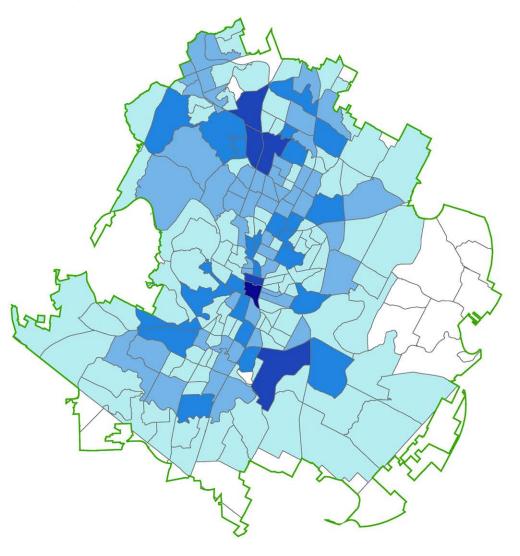
81,085,439 - 146,817,696

188,837,818 - 371,615,468

580,619,414

Annual total commercial consumption

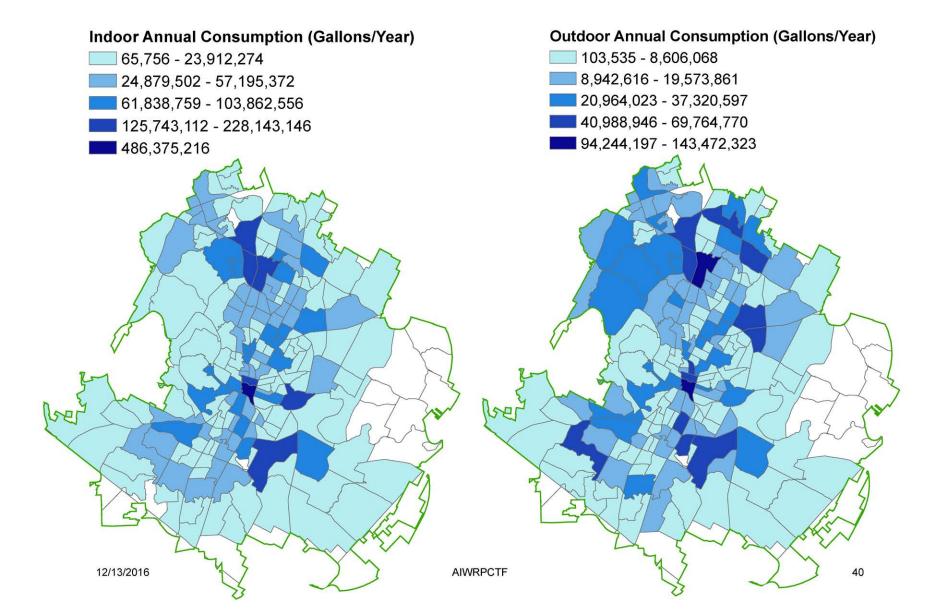




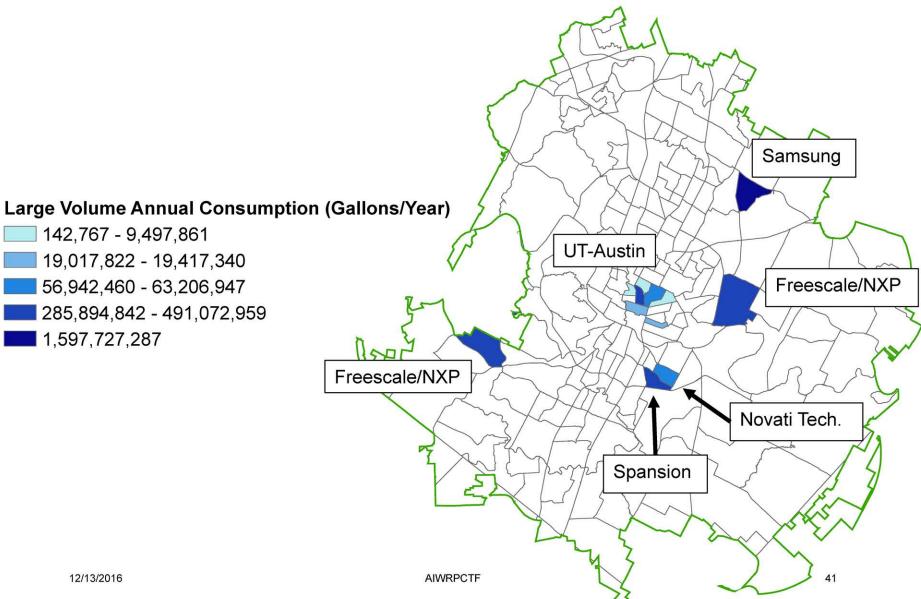
GALLONS PER YEAR

12/13/2016 **AIWRPCTF** 39

Base Year Commercial Annual Consumption







December 13, 2016

How will the model be used?

Disaggregated Demand Model December 13, 2016

Water Demand Projections for Water Forward

- Water needs assessment with baseline demand (gap analysis)
- Options screening and characterization
 - Task 6.3 and reclaimed water
 - Climate and price elasticity analysis/knobs/adjustments
- Portfolio evaluation
 - Demand scenario management



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Next Steps

Next Steps

- Continue work on demand projections
 - Continue DDM refinement
 - Summarize additional regional demand projection information for use in the Water Availability Model (WAM) for project-related WAM analysis
 - Provide update at January 5, 2017 Task Force meeting
- Work with consulting team on prepare demand sets for WAM gap analysis



