

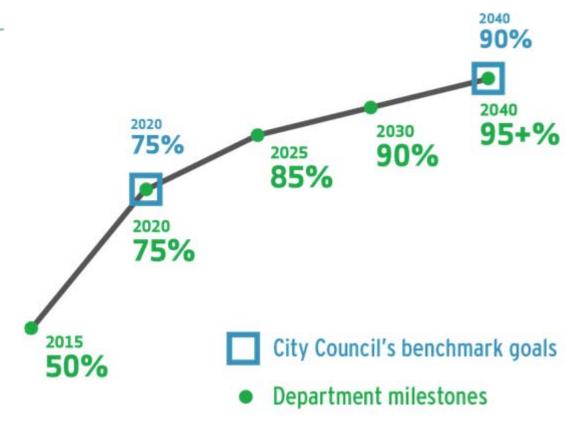


Austin's 2015 Diversion Study

Methodology for measuring diversion in Austin



Austin's Zero Waste Goal and Milestones



90% Diversion by 2040





Baseline study

- Goals for measuring diversion in Austin
 - Research best practices of other communities
 - Comprehensive approach
 - Capture activities such as Reduction, Reuse,
 Repurposing
- Goals for future studies
 - Transparency
 - Repeatability





Challenges

- City of Austin directly controls less than 25% of the resource stream
 - Services residential (single family) homes
- Private/Self haulers handle at least 75% of materials generated in Austin
 - Universal Recycling Ordinance (URO) influences market
- Multiple haulers and facilities manage commercial and multifamily waste
 - No City of Austin landfill or MRF





Methodology: Four Pillars

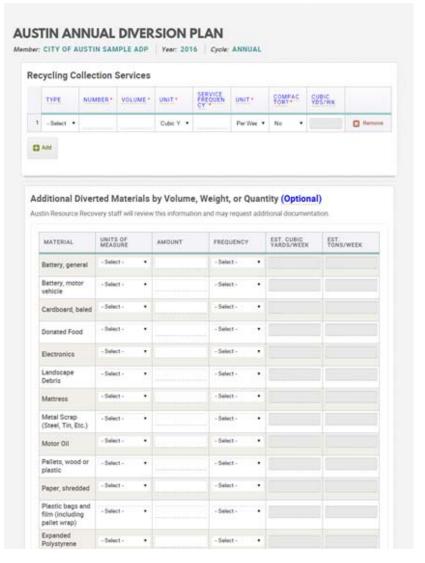
- Comprehensive approach to diversion
 - Data Collection
 - Business Surveys
 - Lid-lifting observations
 - Waste Characterization





Data Collection

- Data from publicly available sources
 - Licensed Hauler Tons
 - URO Annual Diversion Plans
 - City facility and contracts
- Direct outreach to businesses
 - Donation Centers
 - Large Employers









Business Survey

Business/Multifamily Property
Location

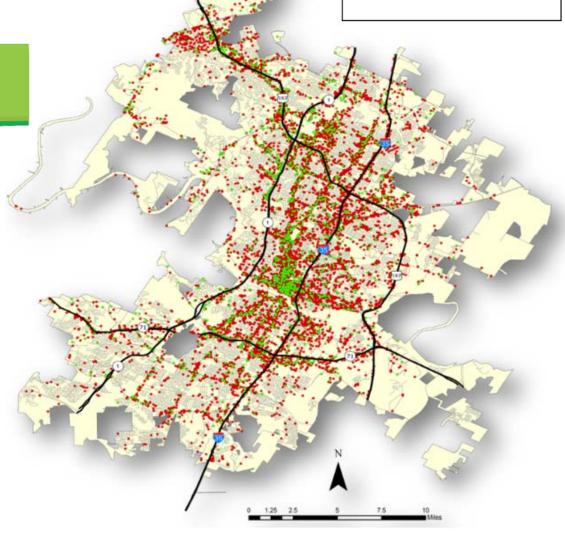
Business/Multifamily Property
Included in the Survey

2015 DIVERSION RATE SURVEY



 3000 randomly selected businesses

- 1,000 follow up calls
- ~3% response rate

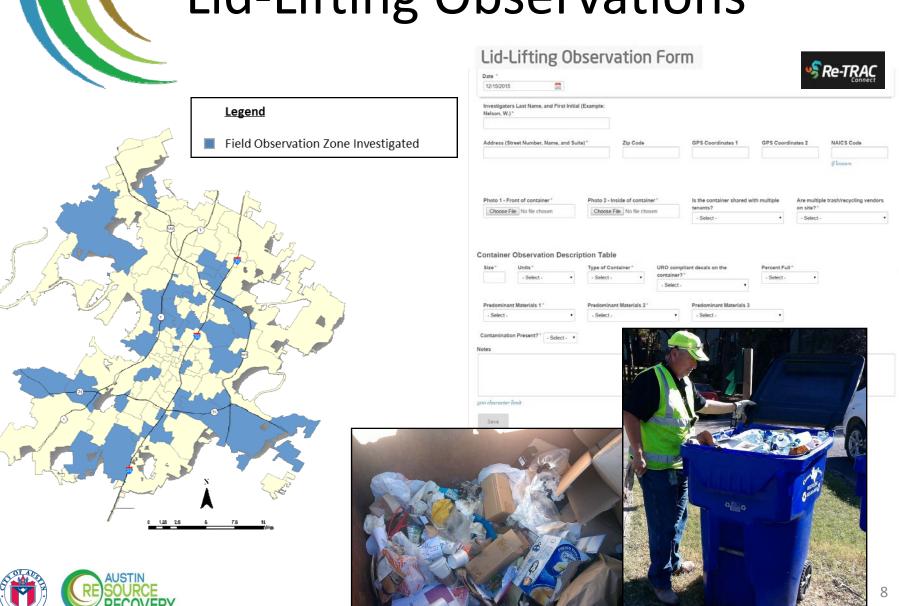








Lid-Lifting Observations







Waste Characterizations

- Sorts at 3 landfills, 3 MRFs, observations at 2 compost facilities
- Expanded category list, 30+ material categories
- No control over routes













Success: What worked?

- Met study objectives within budget and schedule
- Built awareness in the community
- Included diversion activities not previously captured
- Foundation for continuous improvement





Success: Methodology

- We have a lot of good data available
- Good response rate for business sureys
- Easy mobile reporting for lid-lifting through Re-Trac
- Laminated labels on bins increased sort efficiency







Lessons Learned

- Statistically significant waste sorts
- Observations are good, but difficult to include in calculations
- Improved survey techniques





Challenges and Next Steps

- How do you measure what isn't there?
- Real Diversion includes
 Reduction, Reuse, Repair, not
 just Recycling
- No standardized way to quantify

















Next Steps

- What can we do now to improve the next study
 - Help establish national standards
 - Get systems and processes in place for 2020
 - Is diversion rate the best way to calculate how well we're doing?





Thank you

Questions?

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