

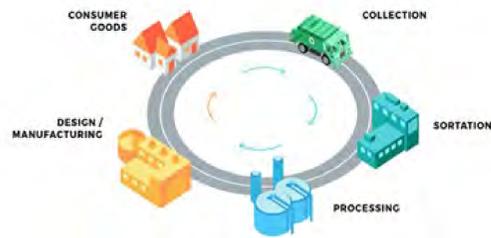
# City of Glendale Sustainable Solid Waste Management

## PROJECT INFORMATION

## TEAM

### Project Background:

The 2019 policy decision by China to reject imported recyclable materials from the rest of the world has caused the global recycling market to drop significantly. To reflect these changes in the market, cities will have to restructure their recycling programs. The City of Glendale is no exception. Glendale has a goal to divert as much waste as possible from landfill disposal, so the students in ERM 432/532 have spent the past semester exploring tried-and-true methods for citywide landfill diversion that can help them achieve their goal.



### Process:

- Academic research
- Phone interviews with relevant stakeholders
- Case study analyses of: Queen Creek, Tempe, Scottsdale, Prescott, Gilbert, Flagstaff, Sedona, Phoenix, Chandler, Cottonwood, Peoria, Goodyear, San Francisco
- Cost-benefit analyses



### Results:

- The cost of replacing one single bin is \$63.3. The cost of replacing only the lid of one single bin is approximately \$15.3 (instructional bilingual labeling included). The City of Glendale has provided 55,000 bins throughout the city, which would result in an investment of \$3,481,500 to replace the entire bin and \$841,500 to replace just the lids of all the bins in the City of Glendale.
- A Denver area program achieved an 85% recycling rate after doing educational outreach.



### Recommendations:

- Replace lids on all residential recycling bins with dark blue ones
- Provide free informative magnets to citizens pertaining to recycling
- Engage with the Glendale School District to inform students, school staff, and families about proper recycling practices and its benefits
- Make all recycling information available in Spanish
- Utilize a mobile application and/or social media to reach more audiences
- Take advantage of opportunities to utilize the Closed Loop Fund
- Pursue a Zero Waste Promotion similar to Tempe's 'Zero Waste Tempe' and San Francisco's program
- Consider contracting with a company that turns plastics 3-7 into fuel as another method for landfill diversion
- Conduct a solid waste fees study
- Enter into an IGA to collaborate with other local municipalities

### Recycling Is Easy

**Recycle These Items**

- PAPER**  
Any kind except soiled, shredded, metallic, waxed or tissue
- METAL**  
Empty and rinsed food and beverage metal containers only
- PLASTIC**  
Empty and rinsed plastic bottles, jugs and jars
- GLASS**  
Empty and rinsed bottles and jars that are clear, green or brown
- CARDBOARD/PAPERBOARD**  
Everything from lightweight cereal to heavy duty shipping boxes (Don't forget to remove liners/packing materials and break-down boxes)

**DO NOT Recycle These Items**

- "STRINGYTHINGS"**  
Rope, extension cords, garden hoses, pool hoses, holiday lights
- CLOTHING OR SHOES**  
Donate useable items to charity and place damaged items in trash bin
- SCRAP METAL**  
Take tools, car parts and appliances to a scrap yard or place in your trash bin
- PLASTIC BAGS OR WRAP**  
Take all plastic bags and plastic wrapping to your nearby retailer
- OTHER CONTAMINATION**  
Food scraps, pizza boxes, Styrofoam, dinnerware, diapers, grass clippings, leaves and animal waste

**Stick With It!**



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Project Lead

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Field Operations Administrator, City of Glendale  
Project Lead



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ERM 432/532: Sustainable Solid Waste Management

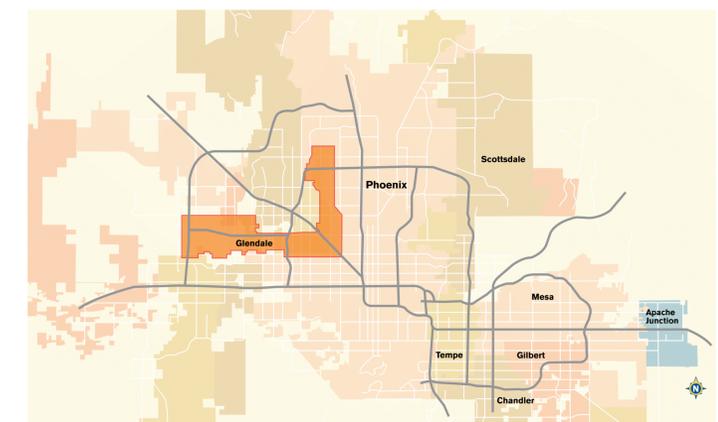
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