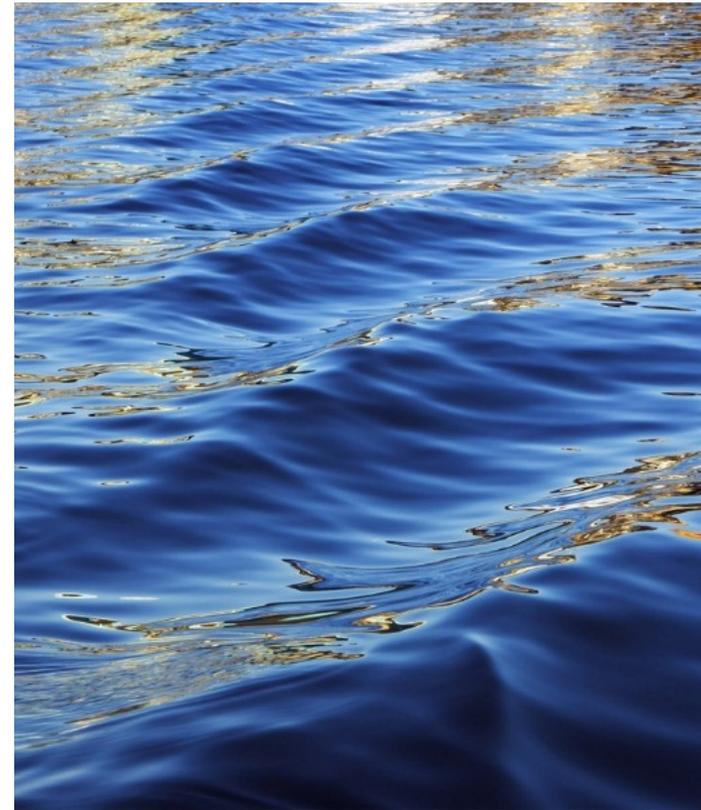




# North Texas Regional Integration of Sustainability Efforts (RISE) Coalition

## Public Meeting

July 9, 2021



RISE Coalition Website: <https://www.nctcog.org/envir/development-excellence/rise-coalition>

RISE Coalition Committee Page: <https://www.nctcog.org/envir/committees/regional-integration-of-sustainability-efforts-ris>



North Central Texas  
Council of Governments

**July 9, 2021**

# **RISE Coalition Public Meeting Agenda**

**1) Welcome**

**2) RISE Coalition Program Update** –NCTCOG will provide an update on the regional projects underway.

**3) RISE Educational Update** – NCTCOG Sustainable Materials Management Program Update

**4) Featured Roundtable Presentation**

Danielle McClelland and Susan Alvarez (City of Dallas)

**5) Participant Roundtable**

**6) Next Meeting Date**

**7) Adjournment**

## 2. RISE Program Update

### **FY2021 RISE Focus Areas:**

- Regional Emissions Assessment
- Emissions Impact Analysis and Mitigation/Adaptation Strategy Development
- Urban Heat Island Reduction Strategy Analysis
- Food Diversion and Waste Reduction Programs

## 2. RISE Program Update

### Regional Emissions Assessment

#### Regional GHG Inventory

- 12-county Metropolitan Planning Area
- NCTCOG initiating data collection related to Energy, Waste, Water, and Wastewater
  - Working with Federal, State, and Regional data
  - Contacting individual cities, counties, special districts to provide needed data to fill gaps
  - For reference and information, the data points for the regional GHG inventory are included on the next slide. NCTCOG is working to collect the data needed to fill the gaps

#### NCTCOG GHG Inventory Cohort

- Call for interested cities open until July 30, 2021
- Participants:
  - Cedar Hill                      Fort Worth                      Lewisville
  - Denton                              Frisco                              Mesquite
  - Farmers Branch              Grapevine                      Plano

Jenny Narvaez; [jnarvaez@nctcog.org](mailto:jnarvaez@nctcog.org)

[North Central Texas Council of Governments - Local and Regional Greenhouse Gas Emission Inventory \(nctcog.org\)](https://www.nctcog.org)

# Data Inputs for GHG Inventories (Waste, Water/Wastewater, and Wastewater Treatment Sectors)

WASTE	WATER/WASTEWATER	WASTEWATER TREATMENT
<b>Waste Sent to Combustion Facility (per facility)</b> <ul style="list-style-type: none"> <li>Tons of Waste</li> <li>Fossil CO<sub>2</sub> (metric tons)</li> <li>CH<sub>4</sub> (metric tons)</li> <li>N<sub>2</sub>O (metric tons)</li> <li>Biologic CO<sub>2</sub> (metric tons)</li> </ul>	<b>Electricity Usage and Units</b>	<b>Emissions from Wastewater Treatment Energy Use</b> <ul style="list-style-type: none"> <li>Electricity Used and Units</li> <li>Natural Gas Used and Units</li> <li>Volume of Water Treated and Units (optional)</li> <li>Population Served (optional)</li> </ul>
<b>Waste Sent to Landfill (per facility)</b> <ul style="list-style-type: none"> <li>Tons of Waste Landfilled</li> </ul>	<b>Natural Gas Usage and Units</b>	<b>Emissions from the Combustion of Digester Gas – Site Specific</b> <ul style="list-style-type: none"> <li>Calculation Type</li> <li>Population Served</li> <li>Gas Production (scf/day)</li> <li>Is energy recovered from combustion?</li> <li>Gas Composition (%CH<sub>4</sub>) (if applicable)</li> <li>Do you have gas composition or heat content?</li> <li>Heat Content (btu/scf)</li> <li>Wastewater generation and treatment location</li> </ul>
<b>Waste Sent to Compost Facility (per facility)</b> <ul style="list-style-type: none"> <li>Tons of Waste Composted</li> </ul>	<b>Indicators</b> <ul style="list-style-type: none"> <li>Water Consumed (million gallons per year) (optional)</li> <li>Population served (optional)</li> </ul>	<b>Emissions from the Combustion of Digester Gas – Population Based</b> <ul style="list-style-type: none"> <li>Calculation Type</li> <li>Is energy recovered from combustion?</li> <li>Population Served</li> <li>Wastewater generation and treatment location</li> </ul>
<b>Waste Transportation</b> <ul style="list-style-type: none"> <li>Tons of Waste</li> <li>Round Trip Distance to Facility (miles)</li> <li>Transport Fuel</li> </ul>	<b>Allocation from Treatment System</b>	<b>Emissions from Flaring of Digester Gas</b> <ul style="list-style-type: none"> <li>Digester Gas Produced</li> <li>Destruction Efficiency</li> <li>Population Served</li> <li>Fraction of CH<sub>4</sub> in Digester Gas</li> <li>Wastewater generation and treatment location</li> </ul>
<b>Landfills (per facility)</b> <ul style="list-style-type: none"> <li>CH<sub>4</sub> (metric tons)</li> </ul>	<b>Process Intensities</b> <ul style="list-style-type: none"> <li>Water Consumption</li> <li>Water Gallons per Day per Capita</li> </ul>	<b>Nitrification/Denitrification Process N<sub>2</sub>O from Wastewater Treatment</b> <ul style="list-style-type: none"> <li>Nitrification/Denitrification as a step in the treatment process</li> <li>Population Served</li> <li>Wastewater generation and treatment location</li> <li>Industrial Commercial Discharge Multiplier</li> </ul>
<b>Waste Combustion Facilities (per facility)</b> <ul style="list-style-type: none"> <li>Fossil CO<sub>2</sub> (metric tons CO<sub>2</sub>)</li> <li>CH<sub>4</sub> (metric tons CH<sub>4</sub>)</li> <li>N<sub>2</sub>O (metric tons N<sub>2</sub>O)</li> <li>Biologic CO<sub>2</sub> (metric tons CO<sub>2</sub>)</li> <li>Indicators - Waste Combusted (tons)/Electricity Generated (kWh)</li> </ul>	<b>Energy Use</b> <ul style="list-style-type: none"> <li>Water Source (ground, surface, etc)</li> <li>Percent of total gallons from source</li> <li>Gallons from source</li> <li>Distribution kWh/million gallons</li> <li>Extraction kWh/million gallons</li> <li>Total kWh/million gallons</li> <li>Conveyance kWh/million gallons</li> <li>Total kWh</li> <li>Treatment kWh/million gallons</li> </ul>	<b>Process N<sub>2</sub>O from Effluent Discharge to Rivers and Estuaries</b> <ul style="list-style-type: none"> <li>Do you have daily N load data from your effluent discharge?</li> <li>Daily N Load (kg N/day)</li> <li>Population Served</li> <li>Wastewater Generation and Treatment Location</li> </ul>
<b>Composting Facilities (per facility)</b> <ul style="list-style-type: none"> <li>Amount of Waste Composted</li> <li>Waste Type</li> </ul>		<b>Fugitive Emissions from Septic Systems – Population Based</b> <ul style="list-style-type: none"> <li>Calculation Type</li> <li>Population Served</li> </ul>

# Data Inputs for GHG Inventories (Energy Sectors)

RESIDENTIAL ENERGY	COMMERCIAL ENERGY	INDUSTRIAL ENERGY
<b>Electricity Used</b> <ul style="list-style-type: none"> <li>Units from Grid (kWh)</li> <li>Units from Natural Gas (MMBtu)</li> <li>Units from Other Fuels</li> </ul>	<b>Electricity Used</b> <ul style="list-style-type: none"> <li>Units from Grid (kWh)</li> <li>Units from Natural Gas (MMBtu)</li> <li>Units from Other Fuels</li> </ul>	<b>Electricity Used</b> <ul style="list-style-type: none"> <li>Units from Grid (kWh)</li> <li>Units from Natural Gas (MMBtu)</li> <li>Units from Other Fuels</li> </ul>
<b>Emission Factors</b> 	<b>Emission Factors</b> 	<b>Emission Factors</b> 
<b>Number of Households (optional)</b> 	<b>Square Footage (optional)</b> 	<b>Industrial Employees (optional)</b> 
<b>Population (optional)</b> 	<b>Commercial Workforce Size (optional)</b> 	<b>Industrial Establishments (optional)</b> 
	<b>Commercial Establishments (optional)</b> 	<b>People Served by Facility (optional)</b>
		<b>Gallons Wastewater/Drinking Water Output Treated (optional)</b>
		<b>Operating Hours (optional)</b>
		<b>Households (optional)</b> 

# Data Inputs for GHG Inventories (Transportation Sectors)

ON-ROAD	OFF-ROAD
<b>Vehicle Miles of Travel</b> <ul style="list-style-type: none"> <li>• Location</li> <li>• Travel Type</li> <li>• Amount</li> </ul> 	<b>Type of Off-Road Vehicle</b> <ul style="list-style-type: none"> <li>• Aviation</li> <li>• Water</li> <li>• Rail</li> <li>• Public Transit</li> <li>• Utility</li> </ul>
<b>Emission Factors</b> 	<b>Emission Factors</b>
<b>Fuel Type</b> 	<b>Fuel Type</b>
<b>Fuel Use</b> <ul style="list-style-type: none"> <li>• Units</li> </ul> 	<b>Fuel Use</b> <ul style="list-style-type: none"> <li>• Units</li> </ul>
<b>Population (optional)</b> 	<b>Fuel Quantity</b> <ul style="list-style-type: none"> <li>• Units</li> </ul>
<b>Percent Motorcycles</b> 	<b>Vehicle Type</b>
<b>Percent Passenger Vehicles</b> 	
<b>Percent Light Trucks</b> 	
<b>Percent Heavy Trucks</b> 	

# THE GREENHOUSE GAS (GHG) EMISSION REDUCTION TOOLKIT



## GOAL

Inform GHG emission reduction in the Dallas-Fort Worth region

- Strategy Catalogue
- Equitable Community Engagement

## STRUCTURE

1. Main Strategy Recommendations
2. Context
3. GHG Inventory Results
4. Sector-specific Sections
5. Strategy Catalogue

## RESEARCHED CITIES

### CITIES WITHIN NCTCOG

>50,000	50,000-100,000	100,000-250,000	250,000+
CEDAR HILL DECATUR COPPELL ROCKWALL WAKAHACHIE CORINTH RICHLAND HILLS FARMERS BRANCH	FLOWER MOUND MANSFIELD ROWLETT NORTH RICHLAND HILLS EULESS DESOTO WYLIE GRAPEVINE	DENTON IRVING GRAND PRAIRIE MESQUITE GARLAND FRISCO CARROLLTON RICHARDSON LEWISVILLE ALLEN	DALLAS PLANO ARLINGTON FORT WORTH DFW INTERNATIONAL AIRPORT
TEXAS CITIES	US CITIES	REGIONAL COGS	NGOs
HOUSTON SAN ANTONIO AUSTIN	ATLANTA ORLANDO NEW YORK CITY	KANSAS CITY REGION SOUTHEAST FLORIDA REGION METROPOLITAN WASHINGTON	EXPONENTIAL ROADMAP C40 CITIES/ MCKINSEY ENVIRONMENTAL DEFENSE FUND

### ENERGY-RELATED POLLUTION CONTROL SOURCES

AREA SOURCE	AREA SOURCE: OIL & GAS	POINT SOURCE
NON-ROAD	ON-ROAD	BIOGENICS

### ENERGY STRATEGY EMPHASIS AREAS

ENERGY EFFICIENCY	GRID OPTIMIZATION	RENEWABLE ENERGY
ENERGY CONSERVATION & DEMAND RESPONSE	ENERGY WORKFORCE TRAINING & EDUCATION	CLEAN TRANSPORTATION

## 2. RISE Program Update

### Urban Heat Island Reduction Strategy Analysis

- Focus of FY2022 Efforts

### Food Diversion and Waste Reduction Programs

#### DOE Technical Assistance for Waste-to-Energy Assessment

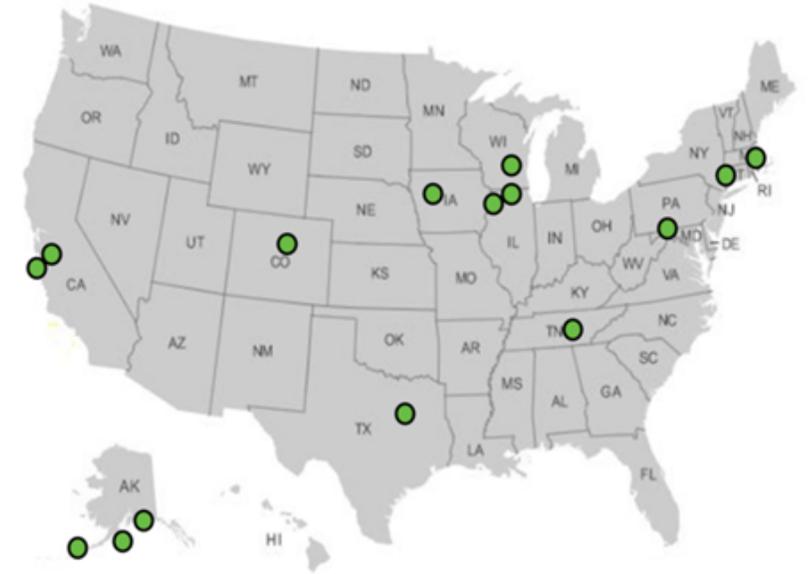
- Partners include Lewisville, Plano, DFW Airport, Toyota Motors North America

#### EPA Organic Waste to Renewable Natural Gas

- Issued RFP on July 2: <https://www.nctcog.org/agency-administration/purchasing/open-solicitations>
- Will convene Advisory Group in early Fall
- Past Roundtables posted here: <http://conservenorthtexas.org/event-archive>
- Upcoming Roundtable: **NCT Food Waste Collection Networks Roundtable**  
**July 12, 2021**  
**2:00 p.m. – 3:30 p.m.**  
**RSVP: <https://www.addevent.com/event/Dx7060251>**

July 06, 2021

#### DOE Announces Technical Assistance for Local Governments on Waste-to-Energy



Phase 1 Selections from the Waste-to-Energy Technical Assistance for Local Governments Program. Image courtesy of NREL

The U.S. Department of Energy (DOE) [Bioenergy Technologies Office](#) (BETO) and National Renewable Energy Laboratory (NREL) are pleased to announce the Phase 1 selections for the [Waste-to-Energy Technical Assistance for Local Governments Program](#).

This technical assistance program was created to mobilize national laboratory analyses and technical expertise around energy and resource recovery from organic waste streams (e.g. food waste, sewage sludge, animal manure, as well as fats, oils, and greases). The insights and analyses will provide an avenue for municipalities and tribal governments to make informed decisions about closing waste loops and generating additional value streams from waste.

[Read more](#)

<https://www.energy.gov/eere/articles/doe-announces-technical-assistance-local-governments-waste-energy>

## 3. Educational Update

# North Central Texas Solid Waste Sustainability Programs

Cassidy Campbell, NCTCOG

# Regional Solid Waste Planning

NCTCOG is the designated regional solid waste planning agency for North Central Texas

- Stores a Closed Landfill Inventory
- Promotes education and outreach
- Administers a pass-through grant program
- Supports the solid waste advisory committee, the Resource Conservation Council
- Provides local governments with technical assistance
- Coordinates with partners to implement and advance materials management programs in North Central Texas.
- Maintains a Regional Solid Waste Management Plan

Funded by the TCEQ

# Planning for Sustainable Materials Management (2015 – 2040)

The 2015 Regional Plan was updated and structured to reflect the Environmental Protection Agency's (EPA) Waste Management Hierarchy.

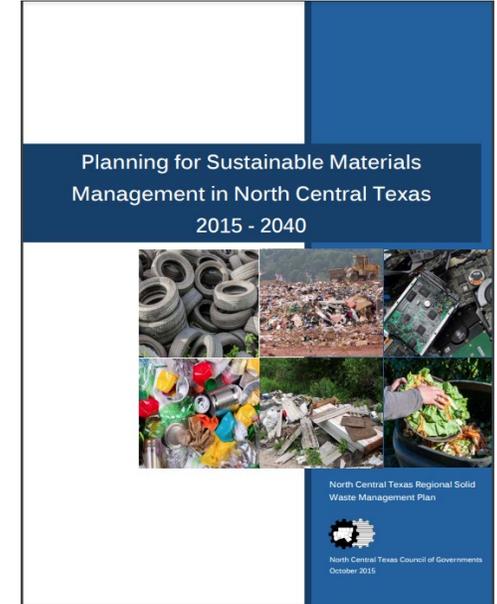
An emphasis on source reduction and recycling/composting is carried through the plan as the most preferred options for waste management.

## The Regional Plan focuses on five goal areas:

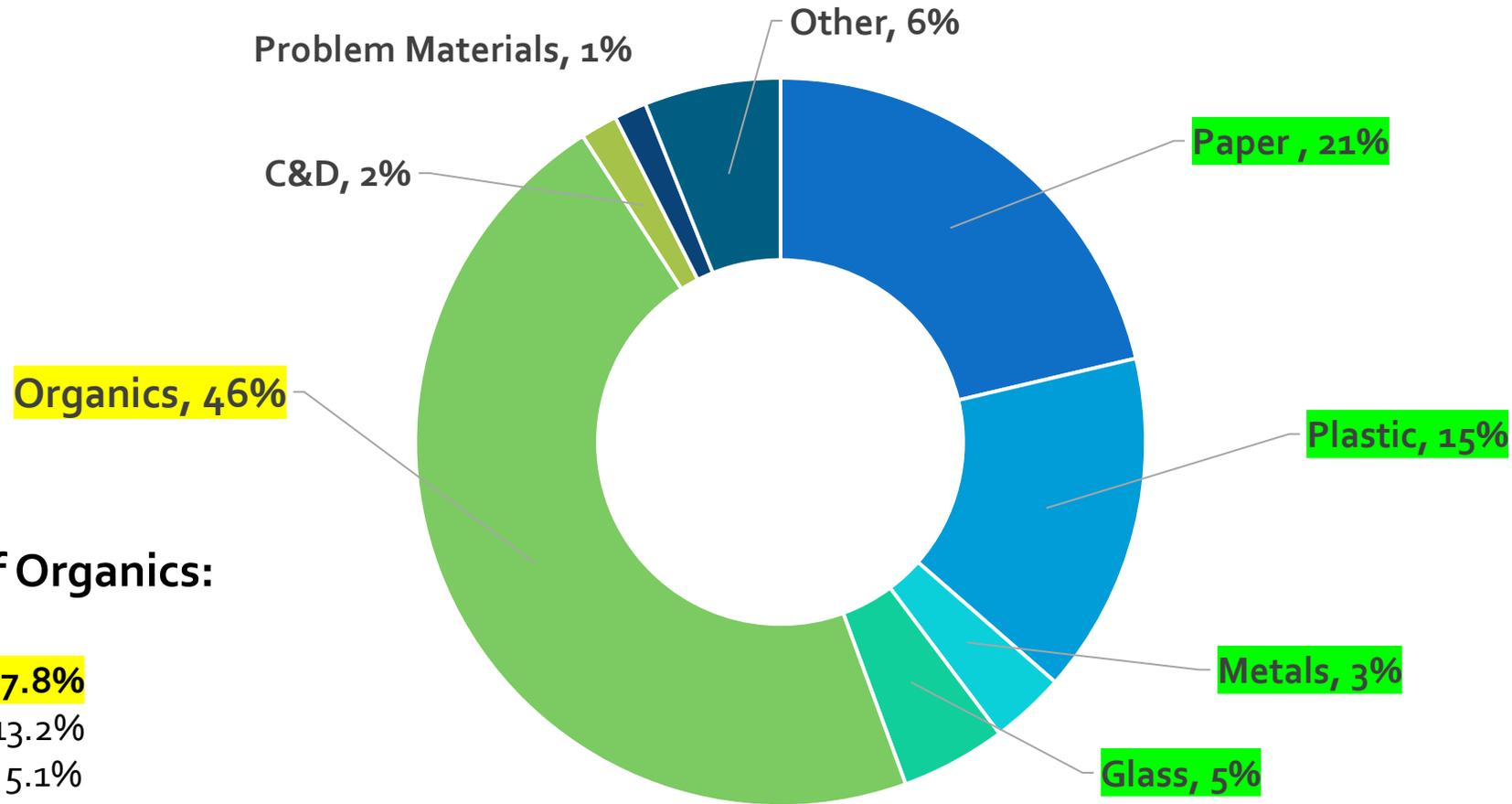
- Support Materials Management Education and Training
- Promote Creation and Expansion of Waste Management Programs
- Measure Regional Waste Reduction Efforts
- Support Innovative Technologies for Other Waste
- Promote Collaborative and Public/Private Sector Partnerships

NCTCOG is currently working to update the Regional Plan by January 2022

[https://www.nctcog.org/nctcg/media/Environment-and-Development/Documents/Materials Management/2015\\_North\\_Central\\_Texas\\_Regional\\_Solid\\_Waste\\_Management\\_Plan\\_10\\_15\\_15.pdf](https://www.nctcog.org/nctcg/media/Environment-and-Development/Documents/Materials%20Management/2015_North_Central_Texas_Regional_Solid_Waste_Management_Plan_10_15_15.pdf)



# 2020 Regional Solid Waste Composition

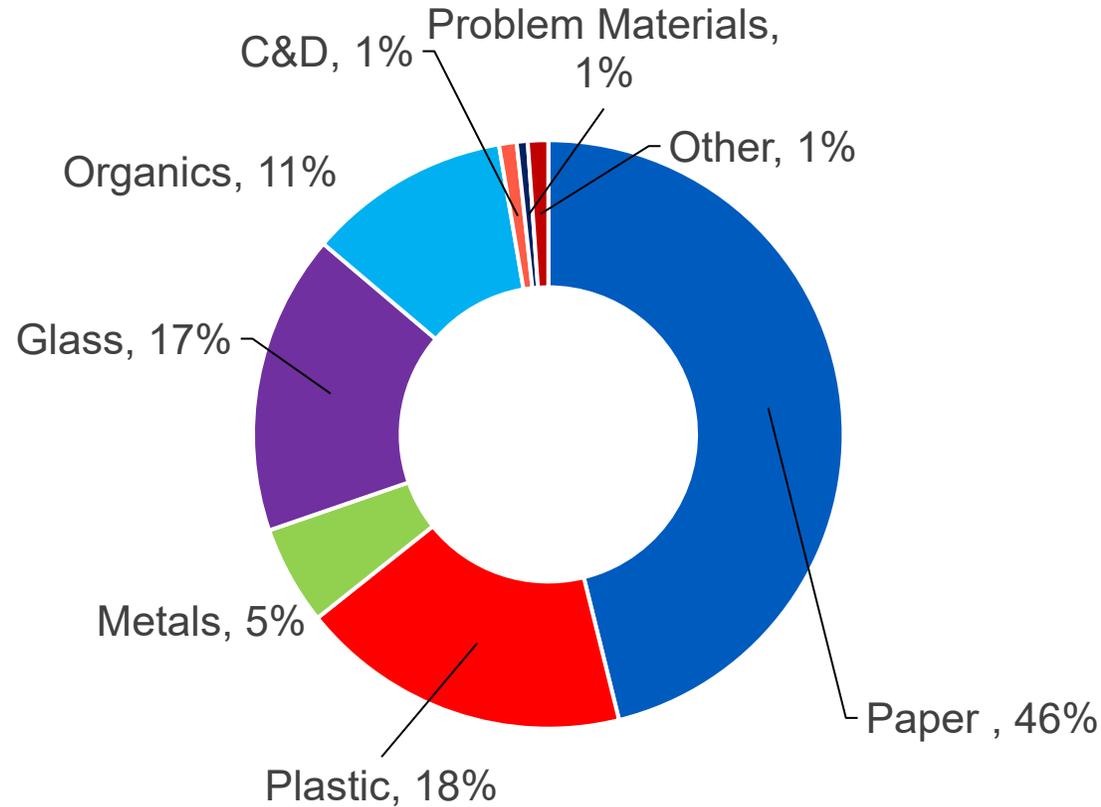


## Composition of Organics:

Food Waste =	27.8%
Other Organics =	13.2%
Yard Waste =	5.1%
Wood (non C&D) =	0.4%
<b>TOTAL =</b>	<b>46.5%</b>

Source: NCTCOG Waste Characterization Study by Burns and McDonnell. 2020

# 2020 Regional Recycling Composition



North Texas contamination rate *estimated at 30%*

- Includes following material categories:
- Non-recyclable OCC
- Other non-recyclable paper
- Non-recyclable plastic\*
- Non-recyclable glass
- Organics\*
- C&D
- Problem material
- Fines and other organics

\*higher percentage than typical MRF audit due to material category differences and handling

# Know What To Throw

- Regional education campaign aimed at reducing contamination and increasing participation
- Designed to teach residents how to recycle more and recycle right
- Messaging is simple, consistent, and high-level
- Outreach focus: social media
- Launch Point: [TimetoRecycle.com](https://www.timetorecycle.com)



## Top Prohibitive Items



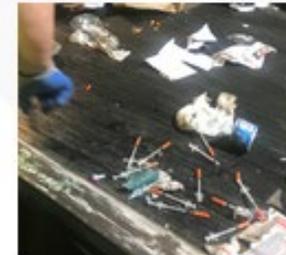
Plastic Bags



Tanglers



Explosives



Sharps

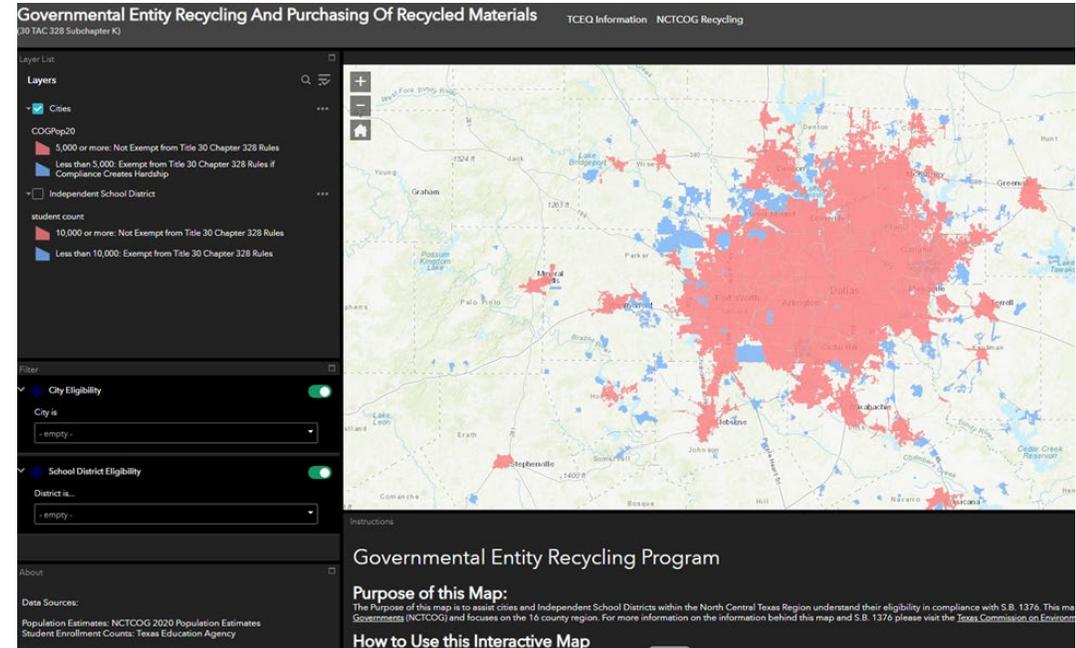


Food Contaminated



# Government Entity Recycling & Purchasing of Recycled Materials (SB 1376)

- A government entity shall establish a recycling program for the separation and collection of recyclable materials, provide procedures for collecting and storing recyclable materials, evaluate and modify the program as necessary, and establish education and incentive programs to ensure participation (exemptions apply)
- Toolkit includes:
  - Memo to region
  - Interactive map to help determine if compliance is required
  - Links to TCEQ rules
  - Links to NCTCOG resources including Time to Recycle, Know What to Throw, Regional Electronics Contract, Solid Waste Grants



# Solid Waste Grants

- Since 2004, over 250 grants, exceeding \$16 million, have been awarded to over 50 recipients in the 16-county region.
- In FY 2020-2021, NCTCOG funded 17 grants totaling ~\$1.3M, for topics including:
  - HHW collection,
  - Disaster debris management,
  - Recycling, and more.



# Maintaining Landfill Capacity into the Future

## Western Region Waste Capacity Study

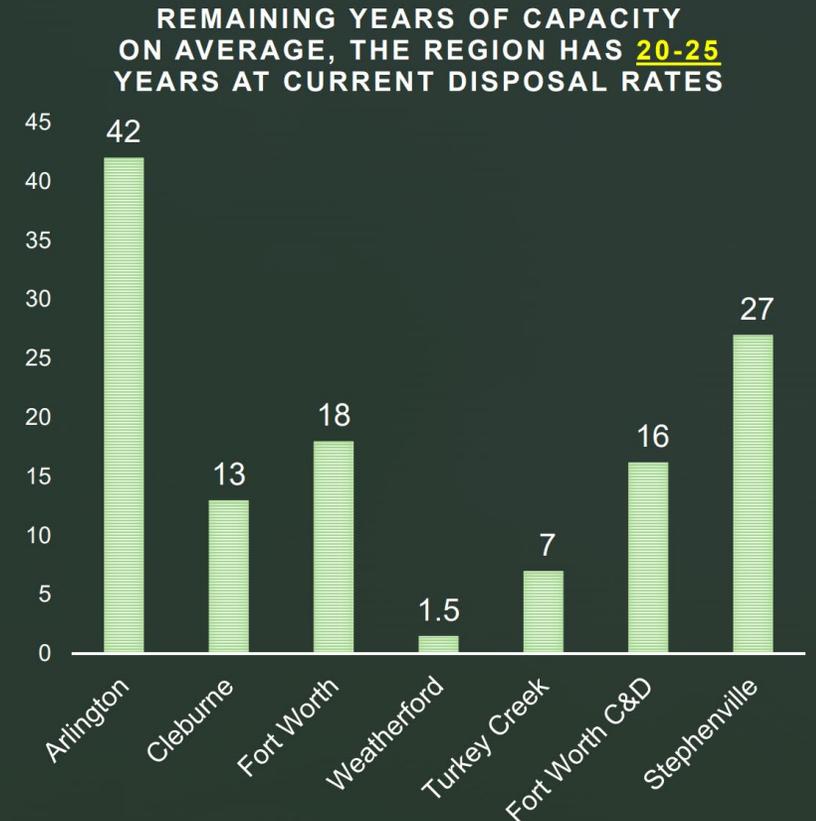
- Develop alternatives for preserving and increasing waste capacity
- Technical study wrapping up this summer
- Initiate implementation actions in coordination with participating local governments and other partners

Project website:

<https://www.nctcog.org/envir/materials-management/western-region-solid-waste-capacity-study>

Landfill Capacity  
(years at current rates of disposal)

When growth rates are factored, capacity is 15 to 20 years



Source: TCEQ Landfill Annual Reports for 2019

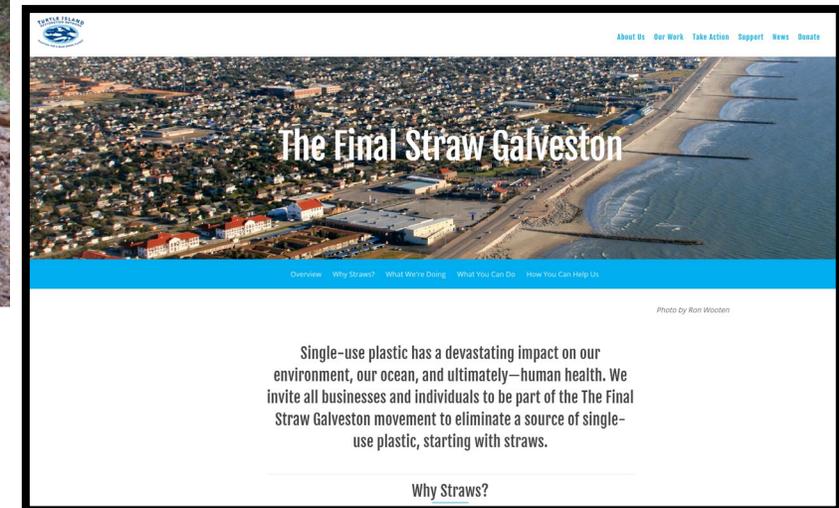
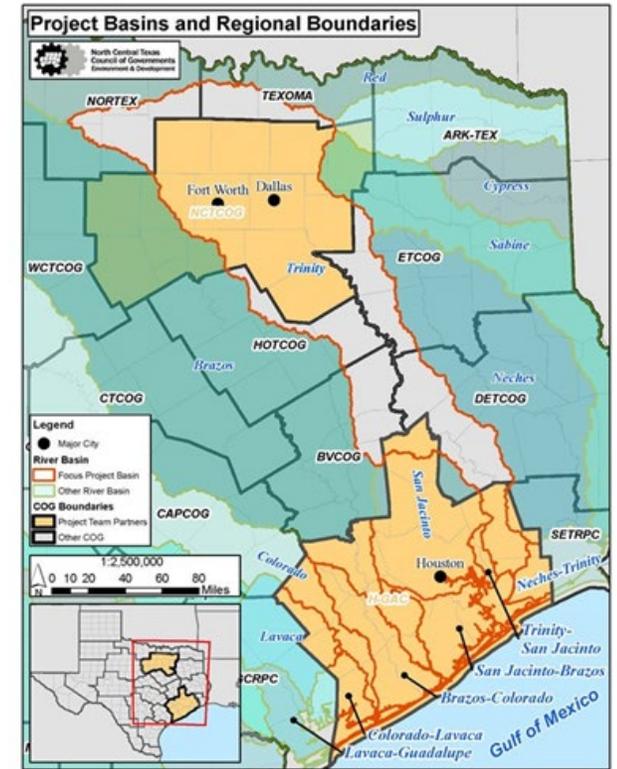
# North Texas Trash Free Waters

- A collaborative effort between NCTCOG, H-GAC and The Meadow's Center
- Funded by US EPA's Trash Free Waters Program
- Project area includes more than 50% of Texas' total population

Partner with Texas-based restaurants to reduce the use of single-use plastic



Project Webpage: <https://www.nctcog.org/environment-development/watershed-management/trash-free-waters-project>



# Additional NCTCOG Resources

- **NCTCOG Materials Management Website:** <https://www.nctcog.org/envir/materials-management>
- **NCTCOG Regional Solid Waste Management Plan:** <https://www.nctcog.org/envir/materials-management/materials-management-plan>
- **NCTCOG Solid Waste Grants:** <https://www.nctcog.org/envir/materials-management/grants>
- **NCTCOG Regional Electronics Recycling Contract:** <https://www.nctcog.org/envir/materials-management/regional-electronics-recycling-contract>
- **NCTCOG Closed Landfill Inventory:** <https://www.nctcog.org/envir/materials-management/closed-landfill-inventory>

# Additional NCTCOG Resources

- **NCTCOG Illegal Dumping:** <https://www.nctcog.org/envir/materials-management/illegal-dumping>
- **Western Region Waste Capacity Study:** <https://www.nctcog.org/envir/materials-management/western-region-solid-waste-capacity-study>
- **Regional Recycling Project (Know What To Throw):** <https://www.nctcog.org/envir/materials-management/regional-recycling-survey-and-campaign>
- **Senate Bill 1376 Toolkit:** <https://www.nctcog.org/envir/materials-management/sb-1376-resources>

## Outreach Websites:

- Time To Recycle: <http://www.timetorecycle.com/>
- Trash Free Texas: <https://www.trashfreetexas.org/>

## 4. Featured Roundtable Presentations

City of Dallas' Local Solid Waste Management Plan  
Outcomes, Updates, and CECAP Solid Waste Goals

Danielle McClelland, Division Manager – Zero Waste

Susan Alvarez, Assistant Director for Environmental Quality  
and Sustainability

# CECAP: Dallas is a Zero-Waste Community

Regional Implementation of  
Sustainability Efforts

**Susan Alvarez, PE, CFM**  
Assistant Director

**Danielle McClelland**  
Manager - Zero Waste Division

Office of Environmental  
Quality & Sustainability

July 9, 2021



## City of Dallas

# Overview

- Background
- CECAP Zero Waste Objectives
- Local Solid Waste Plan Update Status
- Community Feedback



# CECAP Plan Focus & Goals

- Dallas uses renewable, reliable, and affordable energy
- Dallas' **buildings** are energy efficient and resilient
- Dallas communities have access to energy efficient, affordable **transportation** options
- *Dallas is a **Zero-waste** community*
- Dallas protects its **water** resources and its communities from flooding & drought
- All Dallas communities have access to healthy, local **food**
- All Dallas communities breathe clean **air**
- Dallas protects its **ecosystems** that in turn, protect public health

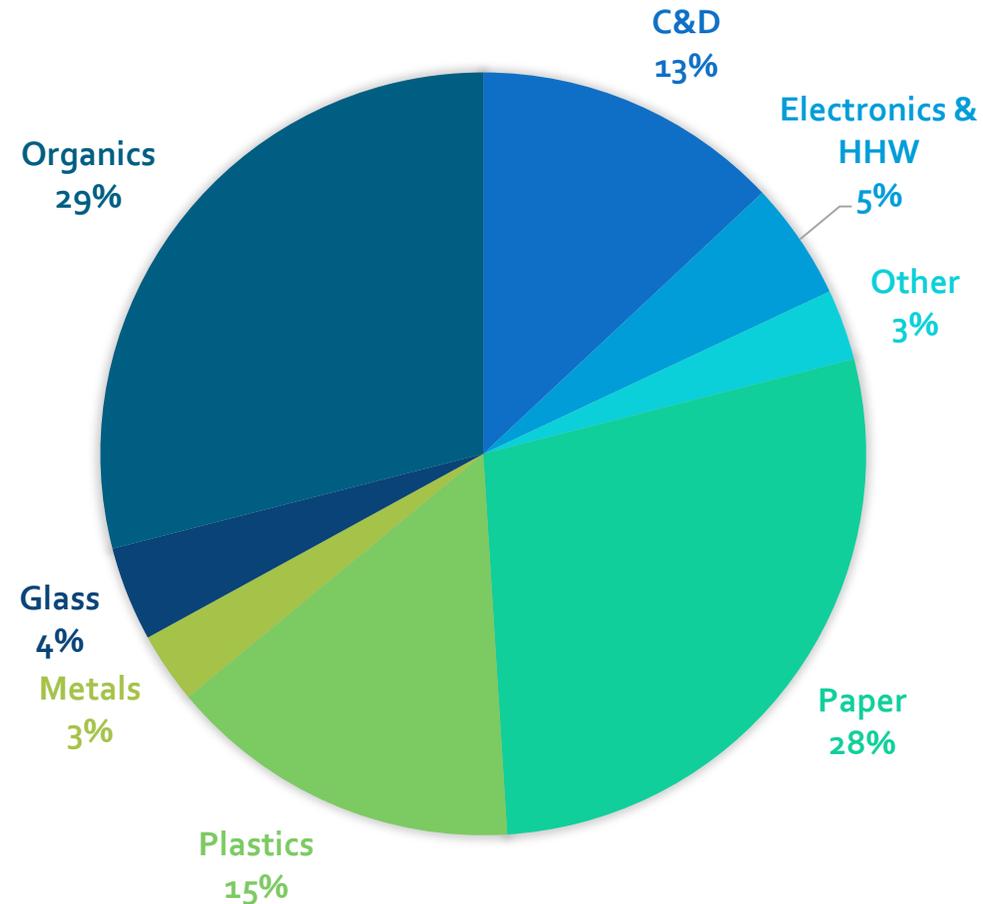
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# Background: McCommas Bluff Landfill (MBLF)

- Estimated landfill life of 35 years
- Receives ~1.8M tons/ year
- City crews deliver ~23% or 400,000 tons annually
- Other 77% comes from multiple sources

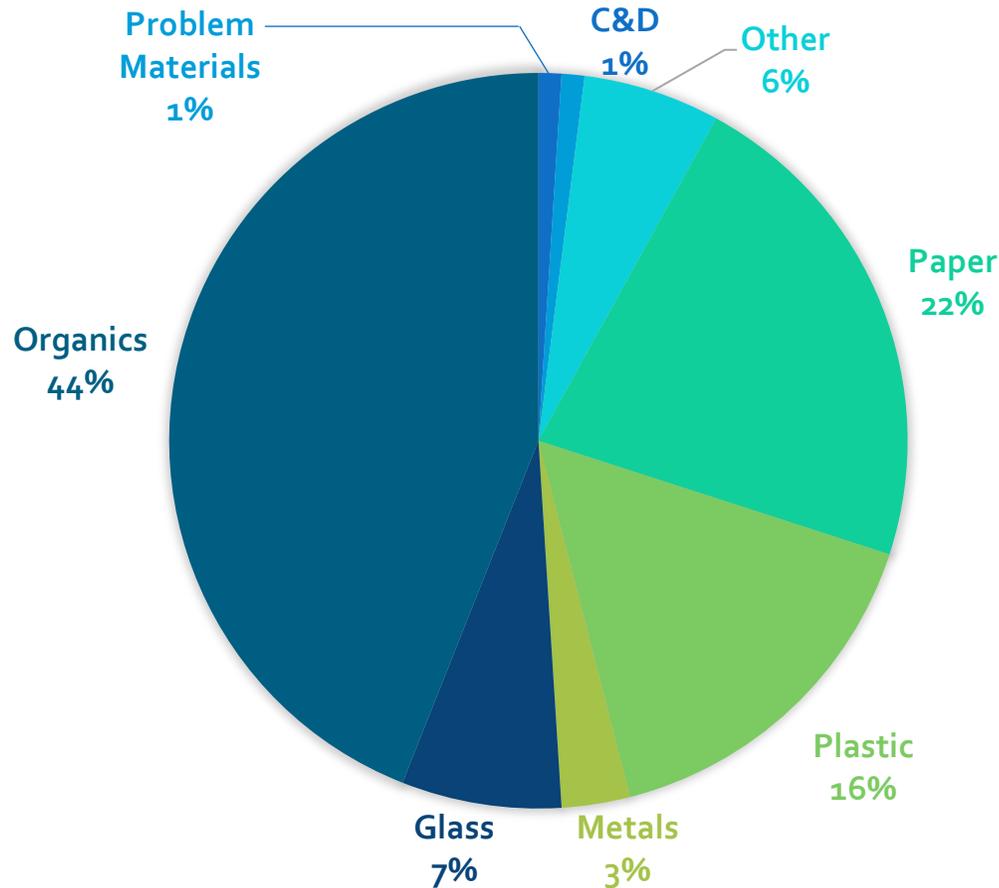
# Background – MBLF Waste Composition\*

- Based on waste audit of 5.2 tons from residential and commercial collections
- Greatest opportunities are in organics, paper, and construction & demolition (C&D)



\*Source: City of Dallas Sanitation Services, 2014

# Background – Regional Waste Composition\*



- Based on waste audit of 5.4 tons of residential waste from 10 cities, including Dallas
- Greatest opportunities are organics, paper, and plastic

\*Source: North Central Texas Council of Governments, 2018

# Programmatic Opportunities & Constraints

## Multifamily

- Singular industry
- Homogenous waste stream
- Relatively uniform operations
- Universal professional organizations accessible for education
- All are subject to City Code enforcement and registration
- ~1,200 properties subject to MFRO

## Commercial

- Includes multiple industries
- Widely variable waste stream
- Operations vary and can include front of house and back of house
- No universal professional organizations accessible for education
- No central enforcement authority
- ~39,400+ businesses potentially subject to commercial recycling\*

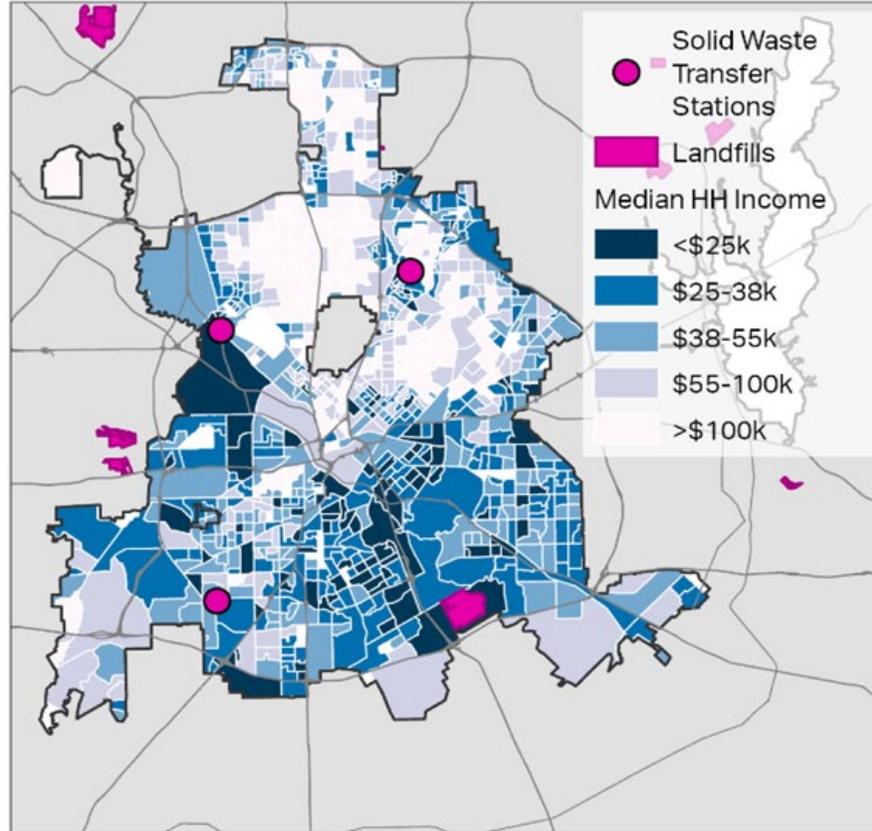
*\*Based on City of Dallas, Dallas Water Utilities Billing Data, 2019/ Dallas Central Appraisal District Property Database, 2019*

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# Waste Management Under Climate Equity Lens

## Low Income vs Landfills

Median annual household income by census block vs landfills and solid waste transfer stations



“Climate change affects all, but not all people are affected equally.”

- Jacqueline Patterson, Director of the NAACP Environmental and Climate Justice Program

(Source: [Smart Growth for Dallas](#), 2020)

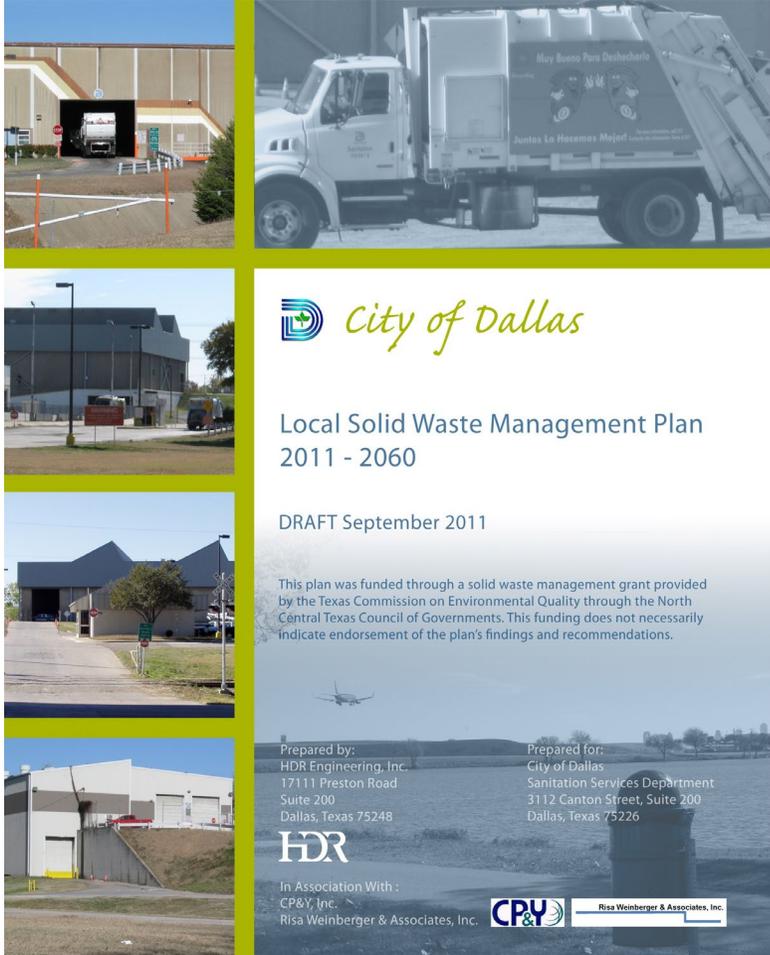
30

# Ideas from Community Outreach Efforts

- Separation of bulk and brush to allow composting/ wood waste diversion
- Mandatory recycling for all
- Source reduction
- City education about waste management
- City enforcement actions



# CECAP Waste Sector Objectives



 *City of Dallas*

Local Solid Waste Management Plan  
2011 - 2060

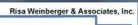
DRAFT September 2011

This plan was funded through a solid waste management grant provided by the Texas Commission on Environmental Quality through the North Central Texas Council of Governments. This funding does not necessarily indicate endorsement of the plan's findings and recommendations.

Prepared by:  
HDR Engineering, Inc.  
17111 Preston Road  
Suite 200  
Dallas, Texas 75248

Prepared for:  
City of Dallas  
Sanitation Services Department  
3112 Canton Street, Suite 200  
Dallas, Texas 75226

 In Association With:  
CP&Y, Inc.  
Risa Weinberger & Associates, Inc.

- Create opportunities to go beyond recycling towards refuse, reuse and repair
- Operate a clean, green and efficient waste system
- Generate energy from organics

# Waste Objectives + Actions

*Create opportunities to go beyond recycling...*

- Actively promote source reduction, universal recycling/ composting
- Develop a comprehensive green procurement plan along with a sustainable procurement policy



# Waste Objectives + Actions

*Operate a clean, green and efficient waste system*

- Improve solid waste, recycling and bulky, brush waste collection efficiency
  - Explore potential for electric collection trucks
  - Expand efforts to reduce illegal dumping
  - Encourage development of material markets – focusing on creating new economic opportunities
- ★ Update & implement Long Range Solid Waste Management Plan (AKA Zero Waste Plan)
- Update Emergency Debris Management



# Waste Objectives + Actions

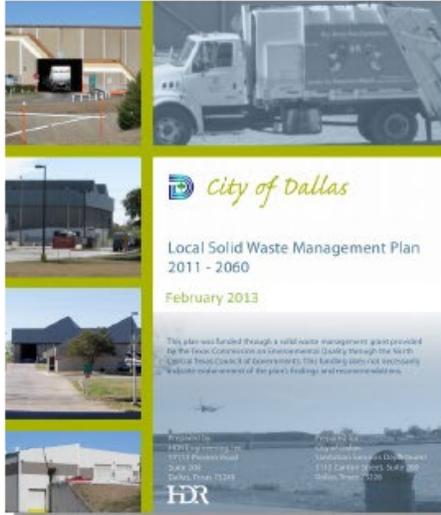
*Generate Energy from organics*

- Continue to capture gas and expand capacity from landfill for reuse;
- Adopt an ordinance to implement a City-wide organics management Program

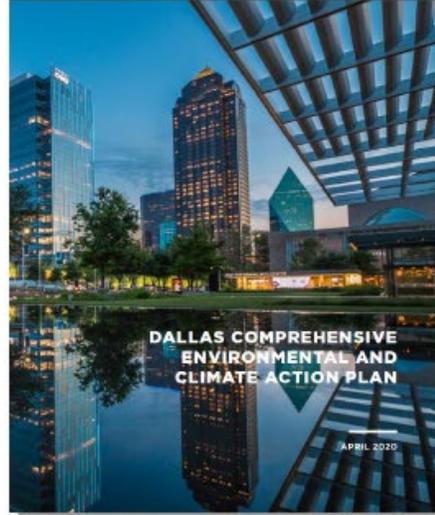




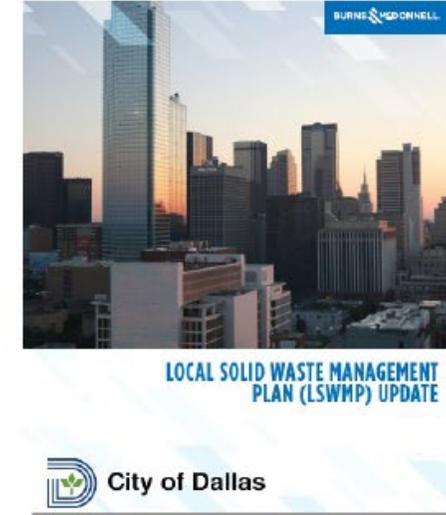
# LSWMP Update Overview



- ▶ Multiple initiatives focused on increasing diversion
- ▶ 50 year planning period



- ▶ Nine solid waste-related goals developed as part of CECAP
- ▶ LSWMP Update to build on CECAP results and incorporate stakeholder engagement efforts

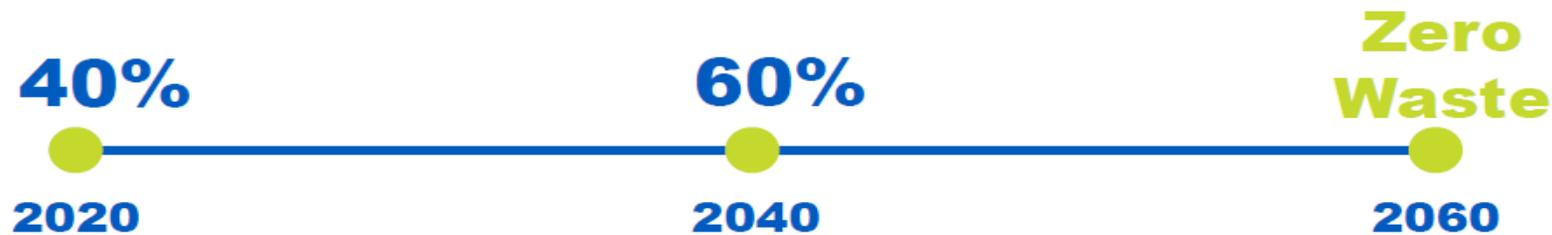


- ▶ Evaluate goals from 2011 LSWMP
- ▶ Focus on developing near-term strategies while still identifying key long-term issues

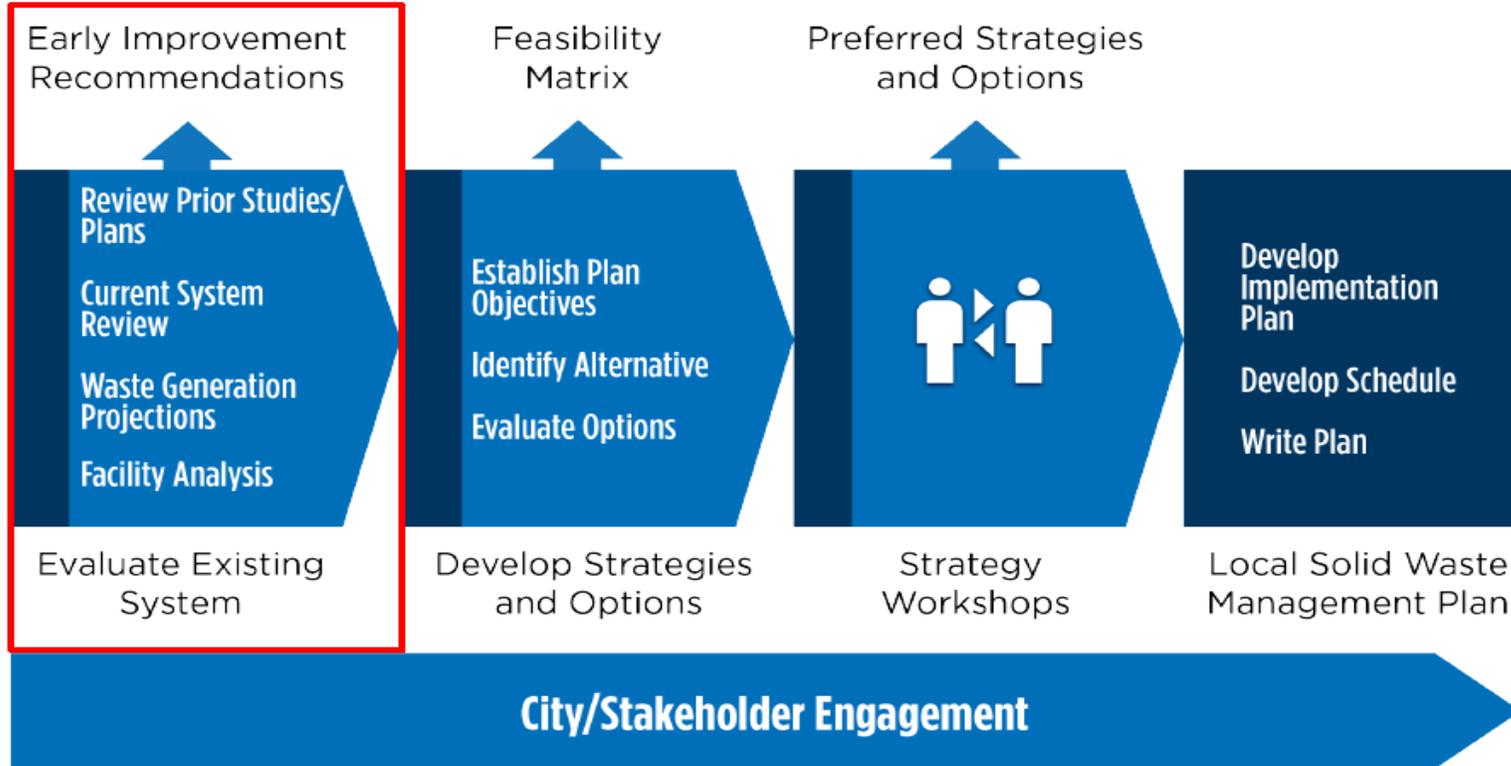
# Future Strategic Direction

- ▶ Zero Waste is a philosophy and often includes visionary goals.
- ▶ Other large cities in Texas face similar challenges to meet or adjust high recycling rate goals.
- ▶ Key part of LSWMP Update to provide strategic direction and goals based on past goals and new updates.

## 2011 LSWMP Recycling Rate Goals



# LSWMP Update Planning Process





# Supporting CECAP Solid Waste-Related Goals

**1. Actively Promote Source Reduction, Recycling and Composting to the Dallas Community**

**2. Develop a Comprehensive Green Procurement Plan**

**3. Improve Solid Waste, Recycling and Brush/Bulky Waste Collection Frequency**

**4. Improve Potential for Electric Waste Collection Vehicles**

**5. Update and Implement the Zero Waste Management Plan**

**6. Expand Efforts to Reduce Illegal Dumping by Implementing Recommendations Identified in the Litter and Illegal Dumping Assessment Study**

**7. Encourage the Development of Material Markets Focusing on Creating New Economic Opportunities**

**8. Continue to Capture Gas and Expand Capacity from Landfill for Reuse and Evaluate for City Operations**

**9. Adopt an Ordinance to Implement a City-wide Organics Management Program**



# Stakeholder Engagement Options

Leveraging the results of CECAP, the City is pursuing the following stakeholder engagement options:



**Stakeholder Engagement Toolkit**



**Online Survey**



**Community Meetings and Events**

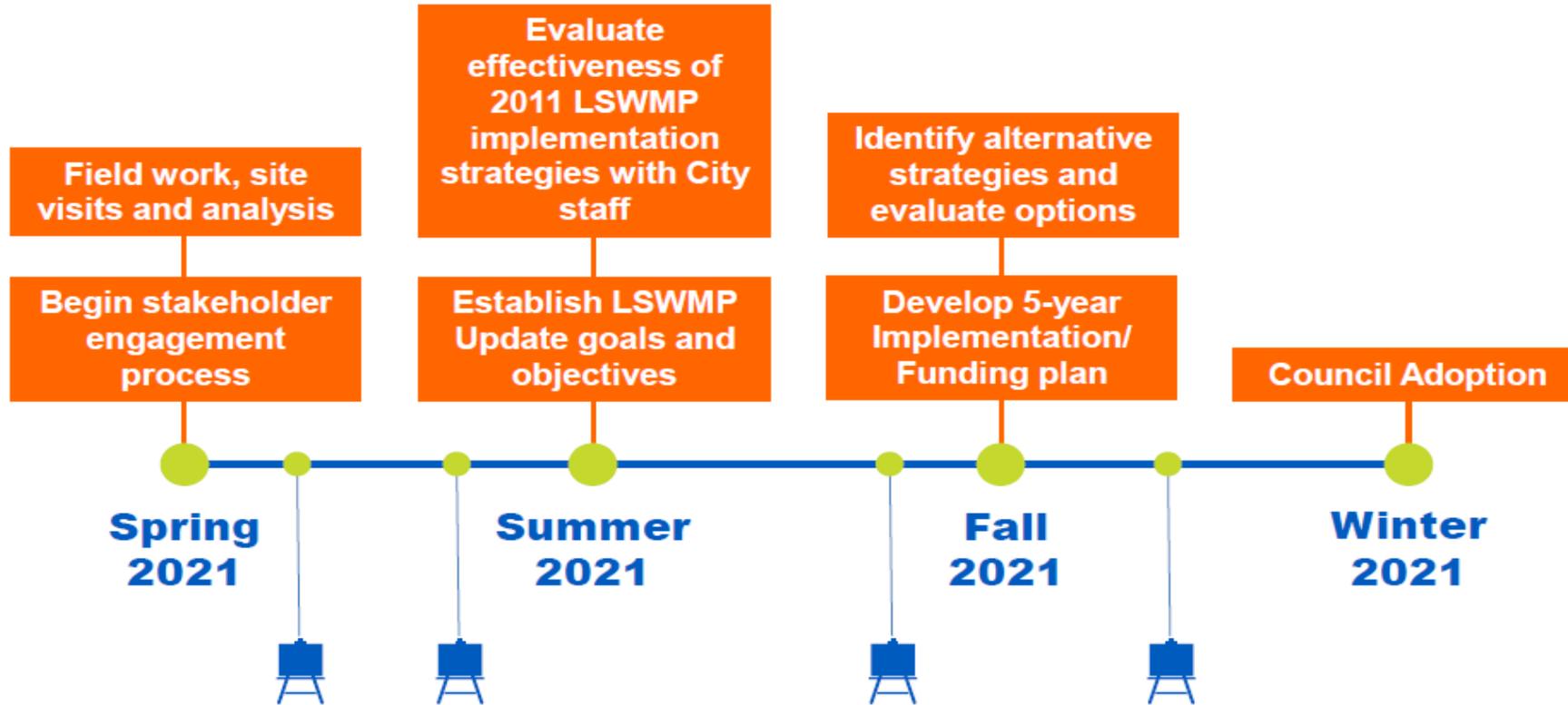


**Task Force & City Council Presentations**



**Stakeholder Interviews**

# LSWMP Update Key Milestones (Draft)



 Indicates City Council Task Force/Subcommittee Presentations

# Questions and Comments



## 5. Participant Roundtable

**Do you have something to share?**

Areas for collaboration?

Current happenings in your community?

Waste diversion goals?

Waste diversion success stories?

## 6. Next Meeting Dates

**Next Public Meeting:**

**To Be Determined**

**Committee Website and Public Meeting Materials:**

<https://www.nctcog.org/envir/committees/regional-integration-of-sustainability-efforts-ris>

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**Thank you!**