



WELCOME TO THE
**CITY OF MCKINNEY'S SOLID WASTE
MANAGEMENT STRATEGY PROJECT**

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City of McKinney, Texas

Solid Waste Management Strategy

Think-Tank Module 3

September 30, 2021



TONIGHT'S AGENDA



Welcome (6 p.m.)



Overview of Scenario Planning Process (6:05 p.m.)



Scenario Planning (6:25 p.m.)



Break (7:05 p.m.)



Scenario Planning (7:10 p.m.)



Expected and Preferred Futures Survey (7:50 p.m.)



Next Steps and Conclude (7:55 p.m.)

WELCOME & INTRODUCTIONS



HOUSE KEEPING

- Please send us a chat message if you have any questions during the presentation.



- The format for this presentation is virtual and is being recorded. Please mute your audio during presentations. Thank you!



THINK-TANK MODULES



Think-Tank Module 1: Future Trends – Thursday, April 9 – 6:00pm-8:00pm

Think-Tank Module 2: Key Drivers – Thursday, April 16 – 6:00pm-8:00pm

Think-Tank Module 3: Scenario Development– Thursday, September 30 – 6:00pm-8:00pm



THINK-TANK WORKSHOP

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BURNS  **McDONNELL**



The challenge for the Think-Tank

- Explore the future -
- Ask the hard questions -
- Think creatively -

The outcome may be a new view of the future.



SCENARIO FRAMEWORK



KEY DRIVERS

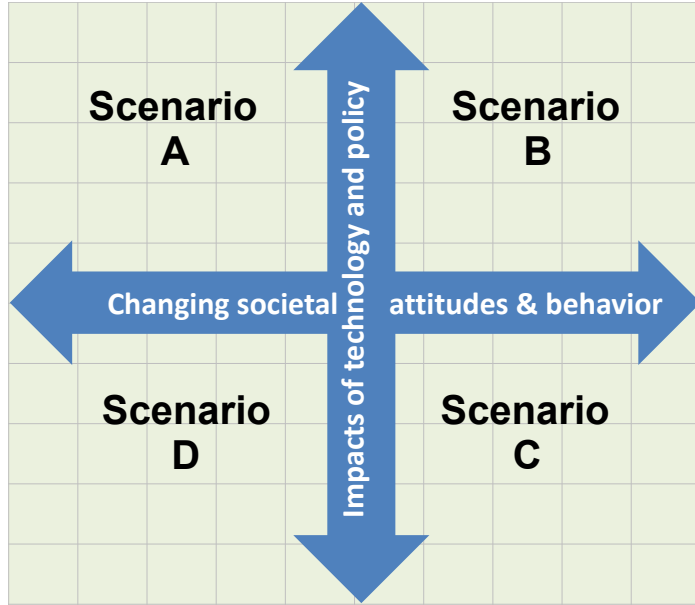
1. Markets and pricing for recyclable materials
2. New Materials recovery (recycling) technologies
3. Changing solid waste management regulations
4. Waste diversion and recycling goals
5. Product packaging design changes
6. More efficient distribution and transportation systems
7. Solid waste conversion technologies (e.g., energy from waste)
8. Increased producer's/manufacturer's responsibility for materials reuse and recycling
9. McKinney citizens' desire for sustainable solid waste management



Plausible Scenario Matrix

Consumption culture
Focus of society remains consumption based. Internet-based retailing increases overall consumption and more packaging waste. Priority is on delivering individual consumer choice and cost competitiveness.

Technology driven solutions
Macro and local policy supports the application of new technology and innovation in waste management. New local economic activity is driven by the next generation of materials recovery technologies.



Reduce, Reuse, Recycle
Stronger local and societal focus on reduce, reuse, and recycling principles. There is a culture of collective responsibility and shared solutions. There is a focus on approaches such as integrated local waste to energy systems.

Low-cost policy options
Hands-off policy position leads the system to local management and low-cost solutions, including continued landfill disposal. There are low levels of technology application, and a reliance on traditional approaches.

McKinney Solid Waste Management Strategy 2040



Characteristics – Suggested dimensions to consider

Consumption patterns and waste types

- Levels of recycling and waste types
- 'Catchment area' for waste collection – where does it come from
- Use of wastes – where does it go?

Policy setting and application of technology

- Funding sources and policy support
- Technology being used on waste treatment
- Public sentiment and acceptance of waste treatment approaches

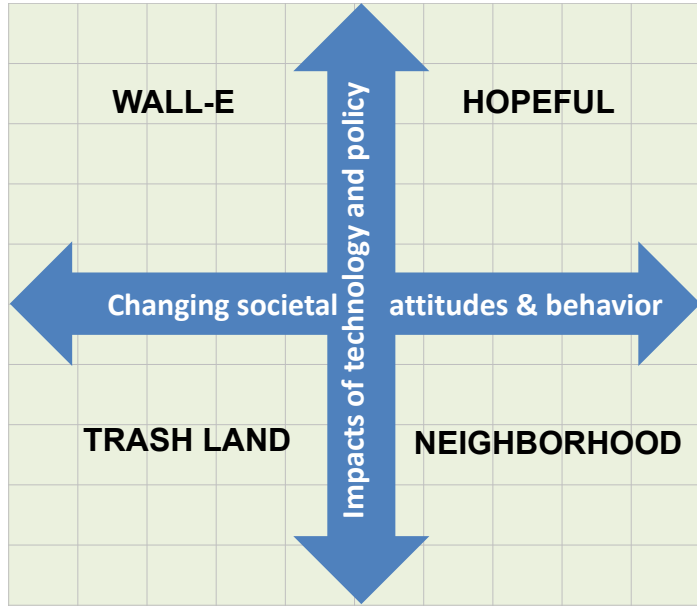
Waste management systems being utilized

- Where and how waste is being processed?
- Who is processing waste, and what are the business models?
- Land-use management and regulations

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McKinney Solid Waste Management Strategy 2040





McKinney Solid Waste Management Strategy Expected and Preferred Survey

Introduction

**WELCOME TO THE CITY OF MCKINNEY'S
SOLID WASTE MANAGEMENT STRATEGY EXPECTED AND PREFERRED SURVEY**

We would like to understand your thoughts about the future of solid waste management and recycling in McKinney looking out as far as 2040. By answering these questions, you will be contributing to the City of McKinney's Solid Waste Management Strategy Project.

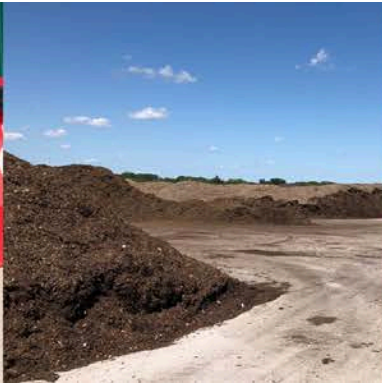
PLEASE NOTE: There are 12 questions and it will take approximately 10 minutes to complete. The survey will time-out if you leave it open (and incomplete), so please allow some uninterrupted time and share your thoughts and views. We

**Vision
Survey**

NEXT STEPS

City of McKinney, Texas Solid Waste Management Strategy

Think-Tank Report





**Your opportunity and future role:
Sign-up to stay involved**

<https://lab2.future-iq.com/city-of-mckinney-project/>



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