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CITY SECRETARY  
DALLAS, TEXAS

## City of Dallas

1500 Marilla Street, Room 6ES  
Dallas, Texas 75201



### Environment and Sustainability Committee

March 2, 2020

9:00 AM

## **2020 CITY COUNCIL APPOINTMENTS**

<b>COUNCIL COMMITTEE</b>	
<b>ECONOMIC DEVELOPMENT</b> Atkins (C), Blewett (VC), Gates, McGough, Narvaez, Resendez, West	<b>ENVIRONMENT AND SUSTAINABILITY</b> Narvaez (C), Atkins (VC), Blackmon, Blewett, Gates
<b>GOVERNMENT PERFORMANCE AND FINANCIAL MANAGEMENT</b> Gates (C), Mendelsohn (VC), Arnold, Bazaldua, Kleinman, Narvaez, Thomas	<b>HOUSING AND HOMELESSNESS SOLUTIONS</b> West (C), Thomas (VC), Arnold, Blackmon, Kleinman, Mendelsohn, Resendez
<b>PUBLIC SAFETY</b> McGough (C), Arnold (VC), Bazaldua, Blewett, Medrano, Mendelsohn, Thomas	<b>QUALITY OF LIFE, ARTS, AND CULTURE</b> Arnold (C), Gates (VC), Atkins, Narvaez, West
<b>TRANSPORTATION AND INFRASTRUCTURE</b> Kleinman (C), Medrano, (VC), Atkins, Bazaldua, Blewett, McGough, West	<b>WORKFORCE, EDUCATION, AND EQUITY</b> Thomas (C), Resendez (VC), Blackmon, Kleinman, Medrano
<b>AD HOC JUDICIAL NOMINATING COMMITTEE</b> McGough (C), Blewett, Mendelsohn, Narvaez, West	<b>AD HOC LEGISLATIVE AFFAIRS</b> Johnson (C), Blackmon (VC), Atkins, Gates, Mendelsohn

(C) – Chair, (VC) – Vice Chair, (L) – Liaison

### **Handgun Prohibition Notice for Meetings of Governmental Entities**

"Pursuant to Section [30.06](#), Penal Code (trespass by license holder with a concealed handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a concealed handgun."

"De acuerdo con la sección [30.06](#) del código penal (ingreso sin autorización de un titular de una licencia con una pistola oculta), una persona con licencia según el subcapítulo h, capítulo 411, código del gobierno (ley sobre licencias para portar pistolas), no puede ingresar a esta propiedad con una pistola oculta."

"Pursuant to Section [30.07](#), Penal Code (trespass by license holder with an openly carried handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a handgun that is carried openly."

"De acuerdo con la sección [30.07](#) del código penal (ingreso sin autorización de un titular de una licencia con una pistola a la vista), una persona con licencia según el subcapítulo h, capítulo 411, código del gobierno (ley sobre licencias para portar pistolas), no puede ingresar a esta propiedad con una pistola a la vista."

Note: A quorum of the Dallas City Council may attend this Council Committee meeting.

**Call to Order****MINUTES**

1. [20-461](#) Approval of the February 3, 2020 Environmental and Sustainability Committee Minutes

**Attachments:** [Minutes](#)

**BRIEFING ITEMS**

- A. [20-462](#) Local Sustainably Grown Food in North Texas  
[Kara J. Casy, PhD, Director, Urban Agriculture and Renewable Resources at El Centro College]

**Attachments:** [Presentation](#)

- B. [20-463](#) CECAP: Access to Health, Local Sustainably Grown Food  
[Susan Alvarez, Assistant Director, Office of Environmental Quality & Sustainability]

**Attachments:** [Presentation](#)

- C. [20-464](#) CECAP: Dallas is a Zero-Waste Community  
[Tim Oliver, Interim Director, Dallas Sanitation Services Department, and Danielle McClelland, Zero Waste Division Manager, Office of Environmental Quality & Sustainability]

**Attachments:** [Presentation](#)

**ADJOURNMENT**

**EXECUTIVE SESSION NOTICE**

A closed executive session may be held if the discussion of any of the above agenda items concerns one of the following:

1. seeking the advice of its attorney about pending or contemplated litigation, settlement offers, or any matter in which the duty of the attorney to the City Council under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with the Texas Open Meetings Act. [Tex. Govt. Code §551.071]
2. deliberating the purchase, exchange, lease, or value of real property if deliberation in an open meeting would have a detrimental effect on the position of the city in negotiations with a third person. [Tex. Govt. Code §551.072]
3. deliberating a negotiated contract for a prospective gift or donation to the city if deliberation in an open meeting would have a detrimental effect on the position of the city in negotiations with a third person. [Tex. Govt. Code §551.073]
4. deliberating the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; or to hear a complaint or charge against an officer or employee unless the officer or employee who is the subject of the deliberation or hearing requests a public hearing. [Tex. Govt. Code §551.074]
5. deliberating the deployment, or specific occasions for implementation, of security personnel or devices. [Tex. Govt. Code §551.076]
6. discussing or deliberating commercial or financial information that the city has received from a business prospect that the city seeks to have locate, stay or expand in or near the city and with which the city is conducting economic development negotiations; or deliberating the offer of a financial or other incentive to a business prospect. [Tex Govt. Code §551.087]
7. deliberating security assessments or deployments relating to information resources technology, network security information, or the deployment or specific occasions for implementations of security personnel, critical infrastructure, or security devices. [Tex Govt. Code §551.089]





# City of Dallas

1500 Marilla Street  
Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 20-461

**Item #:** 1.

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Approval of the February 3, 2020 Environmental and Sustainability Committee Minutes

# Environment and Sustainability Committee Meeting Record

The Environment and Sustainability Committee meetings are recorded. Agenda materials are available online at [www.dallascityhall.com](http://www.dallascityhall.com). Recordings may be reviewed/copied by contacting the Environment and Sustainability Committee Coordinator at 214-670-3246.

**Meeting Date:** February 3, 2020

**Convened:** 9:05 a.m.

**Adjourned:** 10:24 a.m.

**Committee Members Present:**

Omar Narvaez, Chair  
Tennell Atkins, Vice Chair  
Paula Blackmon  
David Blewett  
Jennifer S. Gates

**Committee Members Absent:**

N/A

**Other Council Members Present:**

N/A

**Presenters:**

Liz Cedillo-Pereira, Chief of Equity & Inclusion  
James McGuire, Director, Office of Environmental Quality & Sustainability  
Susan Alvarez, Assistant Director, Office of Environmental Quality & Sustainability  
Zaida Basora, Executive Director, American Institute of Architects (AIA)

## AGENDA

Call to Order (9:05 a.m.)

### 1. Approval of the January 6, 2020 Meeting Minutes

**Presenter(s):** Omar Narvaez, Chair

**Action Taken/Committee Recommendation(s):** A motion was made to approve the minutes for the January 6, 2020 Environment and Sustainability Committee meeting.

Motion made by: David Blewett  
Item passed unanimously: X  
Item failed unanimously:

Motion seconded by: Tennell Atkins  
Item passed on a divided vote:  
Item failed on a divided vote:

### 2. Green Buildings, Sustainable Building Strategies in Dallas

**Presenter(s):** Zaida Basora, Executive Director, American Institute of Architects (AIA)

**Action Taken/Committee Recommendation(s):** Executive Director Zaida Basora presented an overview of sustainability efforts by the Green Buildings Program in Dallas. Director Basora further described the context which led Dallas to adopt Leadership in Energy and Environmental Design (LEED). Director Basora shared information about the Municipal Green Building Program, adopted on January 22, 2003 and the over 40 LEED certified buildings in Dallas. Director Basora provided ample examples of LEED buildings throughout the city. Councilmember Atkins asked if contractors are receiving credit for LEED buildings. Director Basora shared that they receive the LEED plaque. Chair Omar Narvaez asked what the payback was on LEED gold and platinum. Director Basora said that they are comparable but that they may take 18 months to see a payback. Information only.

# Environment and Sustainability Committee

## Meeting Record

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### 3. CECAP: Resilient and Energy Efficient Buildings powered by Sustainable, Renewable Energy

**Presenter(s):** James McGuire, Director, Office of Environmental Quality & Sustainability, and Susan Alvarez, Assistant Director, Office of Environmental Quality & Sustainability

**Action Taken/Committee Recommendation(s):** Mr. McGuire presented an overview of the Comprehensive Environmental & Climate Action Plan (CECAP) and OEQS to have Resilient and Energy Efficient Buildings powered by Sustainable, Renewable Energy. Ms. Alvarez gave an overview of Dallas' participation in Dallas 2030 District, which is part of a national movement of central business districts to reduce energy and water use by 50%. Ms. Alvarez further outlined draft plans for Dallas to use renewable, reliable and affordable energy and that Dallas' buildings are energy efficient. Information only. Ms. Alvarez shared that a draft plan would be available for public review February 3 and will extend to March 3. Councilmember Atkins asked about LED lights for street lights. Mr. McGuire shared that they are working with ONCOR to address using LED lights for street lighting. Councilmember Atkins asked for more information about power gridding and difference in reliability in one area relative to another. Ms. Andrea from Oncor received the question from the audience and said that interrupted power between areas is dependent on feeders to the area. Councilmember Blackmon asked if other governmental entities have similar policies regarding energy efficiency. Ms. Alvarez answered that Dallas Independent School District recently hired a sustainability manager and that a partnership is being pursued. Councilmember Blewett followed Councilmember Blackmon's interest in building partnerships and similar goals with other governmental entities. Chairman praised the Dallas 2030 District and asked about how it can be expanded. Mr. McGuire said that it may require non-profit or governmental intervention to initiate dialogue. Information Only.

Adjourn (10:24 a.m.)

**APPROVED BY:**

**Omar Narvaez, Chair**  
Environment and Sustainability Committee

**ATTESTED BY:**

**Yolanda Ramirez, Coordinator**  
Environment and Sustainability Committee



# City of Dallas

1500 Marilla Street  
Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 20-462

**Item #:** A.

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Local Sustainably Grown Food in North Texas

[Kara J. Casy, PhD, Director, Urban Agriculture and Renewable Resources at El Centro College]

# Benefits of Urban Agriculture

Kara Casy, PhD

El Centro College, Urban Agriculture & Renewable Resources

kara.casy@dcccd.edu | 214.860.2026 | @eccurbanagrr



**El Centro College**

DALLAS COUNTY COMMUNITY COLLEGE DISTRICT

Higher Education That  
*Actually* Gets You Hired





Community Pride



Opportunity



Education





Community Pride













Opportunity

## DEFINITIONS

“The science of growing crops in urban and peri-urban (suburban) settings.”

Texas A&M AgriLife



“Urban agriculture includes production (beyond that which is strictly for home consumption or educational purposes), distribution and marketing of food and other products within the cores of metropolitan areas and at their edges. Examples include community, school, backyard, and rooftop gardens with a purpose extending beyond home consumption and education, urban market gardens, innovative food-production methods that maximize production in a small area, community supported agriculture based in urban areas, and family farms located in metropolitan greenbelts”

(Adapted from the American Planning Association, 2011).

CAL POLY POMONA

University of California Agriculture and Natural Resources

Slide courtesy of Dr. Mary Brumbach, DCCCD, Chief Strategy Officer





# AGRICULTURE

is the nation's

**LARGEST  
EMPLOYER**

with more than

[ that's 17% of  
the civilian  
workforce ]

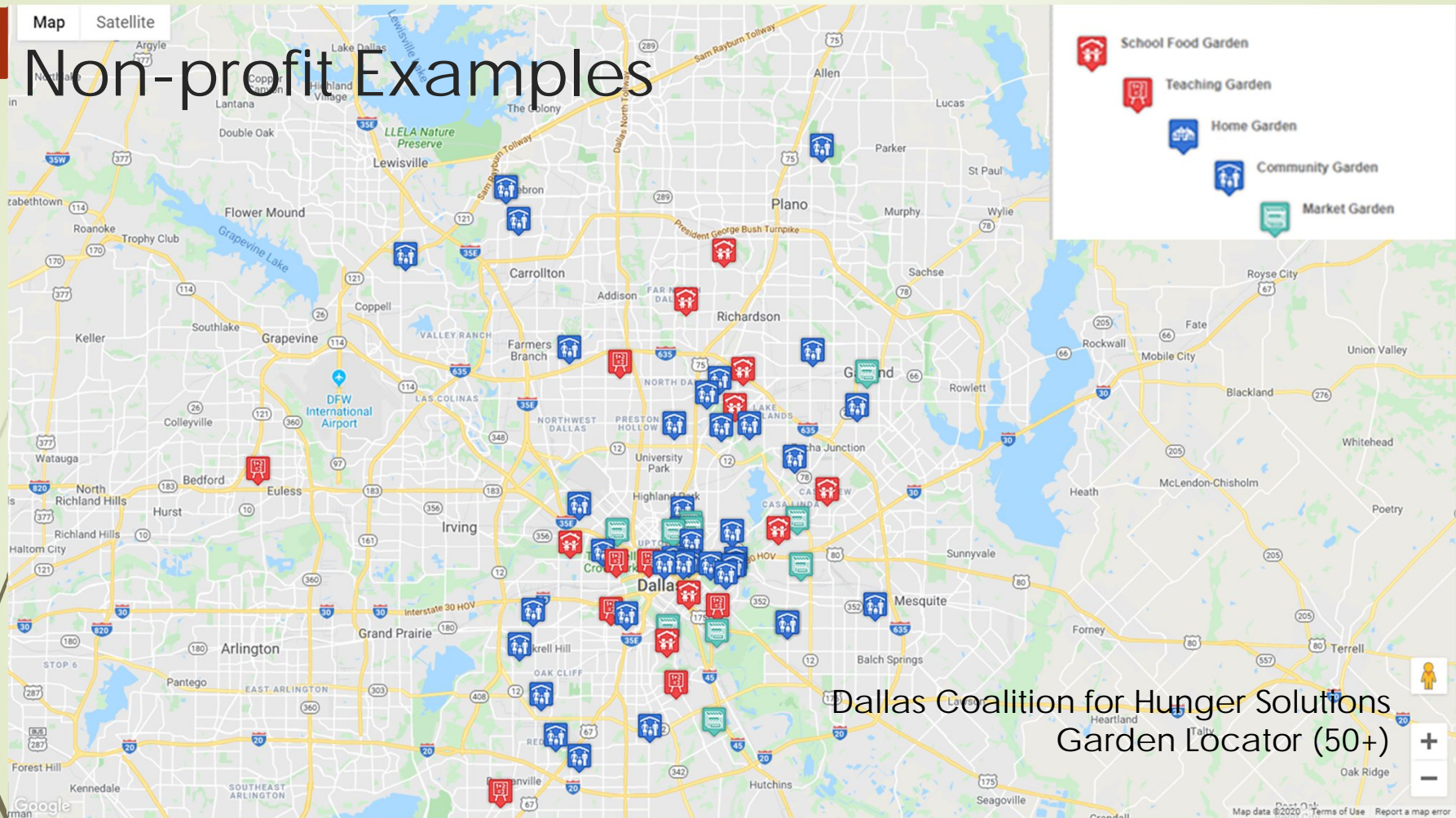
**23  
MILLION  
JOBS**

involved in some facet of  
**AMERICAN AGRICULTURE.**

Source: National FFA Organization

Slide courtesy of Dr. Randy Harp, Dean of Agriculture, TAMUC

# Non-profit Examples



Slide courtesy of Dr. Mary Brumbach, DCCCD, Chief Strategy Officer



# Non-profit Examples

- ▶ Bonton Farms: The original farm (known as Dallas' first urban farm) is situated on a 1.25-acre lot nestled within the community of Bonton, while an additional 40 acres (known as The Bonton Farms Extension) has now become one of the largest urban farms in the United States. In addition to rows of fresh organic produce, the farm is home to free-range chickens, goats, turkeys, rabbits, and beehives which provide an abundance of fresh eggs, milk, and honey.
- ▶ Located in a food desert, Bonton includes The Bonton Market and café which provides recently harvested produce, chef-inspired hot meals, cooking classes, nutrition classes, and much more
- ▶ Other examples:
  - ▶ Our Savior Community Garden, Jim Miller Rd., Dallas  
[www.facebook.com/Our-Saviour-Community-Gardens](http://www.facebook.com/Our-Saviour-Community-Gardens)
  - ▶ East Dallas Community Garden, N. Fitzhugh, Dallas  
[www.facebook.com/East-Dallas-Community-Garden](http://www.facebook.com/East-Dallas-Community-Garden)
  - ▶ Promise of Peace Garden, San Saba Drive, Dallas  
[www.promiseofpeace.us](http://www.promiseofpeace.us)
  - ▶ Deep Ellum Urban Garden, Good Latimer @ Canton St., Dallas  
[www.facebook.com/Deepellumurbangardens](http://www.facebook.com/Deepellumurbangardens)



Slide courtesy of Dr. Mary Brumbach, DCCCD, Chief Strategy Officer

Urban Agriculture in DFW-Arlington MSA 2019

	Current			5-Year History		2-Year Forecast		
Occupation	Employees	Average Annual Wages <sup>2</sup>	Unemployment Rate	Employee Change	Annual %	Employee Growth	Annual % Growth	Education Level
Farmers, Ranchers, and Other Agricultural Managers	9,922	\$40.38	0.7%	-631	-1.2%	161	0.8%	High School Diploma or Equivalent
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1,663	\$10.91	6.1%	144	1.8%	39	1.2%	No formal educational credential
Life, Physical, and Social Science Technicians, All Other	1,367	\$27.64	2.8%	272	4.5%	46	1.7%	Associate's Degree
Natural Sciences Managers	757	\$60.58	1.2%	149	4.5%	26	1.7%	No formal educational credential
Graders and Sorters, Agricultural Products	756	\$11.35	8.3%	13	0.4%	13	0.9%	No formal educational credential
Farm Equipment Mechanics and Service Technicians	556	\$21.30	1.8%	167	7.4%	15	1.3%	Bachelor's Degree
Agricultural Equipment Operators	477	\$12.69	6.6%	85	4.0%	14	1.5%	High School Diploma or equivalent
Conservation Scientists	376	\$29.23	0.4%	44	2.5%	12	1.6%	Bachelor's Degree
Career/Technical Education Teachers, Middle School	356	\$28.27	2.2%	27	1.6%	8	1.1%	Associate's Degree
Agricultural and Food Science Technicians	323	\$21.83	2.6%	63	4.4%	10	1.6%	Bachelor's Degree
Buyers and Purchasing Agents, Farm Products	246	\$34.47	3.9%	-1	-0.1%	2	0.3%	N/A
Agricultural Sciences Teachers, Postsecondary	217	\$37.50	2.5%	32	3.2%	6	1.4%	N/A
Agricultural Workers, All Other	162	\$9.76	7.0%	29	4.0%	6	1.8%	N/A
Agricultural Inspectors	105	\$23.17	2.9%	5	1.1%	3	1.3%	Bachelor's Degree
Environmental Science Teachers, Postsecondary	72	\$41.49	2.4%	10	3.0%	2	1.3%	Bachelor's Degree
Farm and Home Management Advisors	53	\$14.04	3.5%	3	1.2%	2	1.8%	Master's Degree
Agricultural Engineers	28	\$40.87	n/a	-2	-1.1%	1	1.8%	Bachelor's Degree
Urban Agriculture	17,434	\$33.41	2.3%	409	0.5%	367	1.0%	N/A
Total - All Occupations	3,867,479	\$24.90	3.3%	477,146	2.7%	119,868	1.5%	N/A

Slide courtesy of Dr. Mary Brumbach, DCCCD, Chief Strategy Officer



Education



# New Agriculture Course Offerings



AGRI 1131  
Agricultural Industry



AGRI 1407  
Agronomy



AGRI 2317  
Introduction to  
Agricultural Economics



AGRI 1309  
Computers in Ag



AGRI 1415  
Horticulture



AGRI 2330  
Wildlife Conservation  
and Management



AGRI 1329  
Principles of  
Food Science



AGRI 1419  
Introductory Animal  
Science



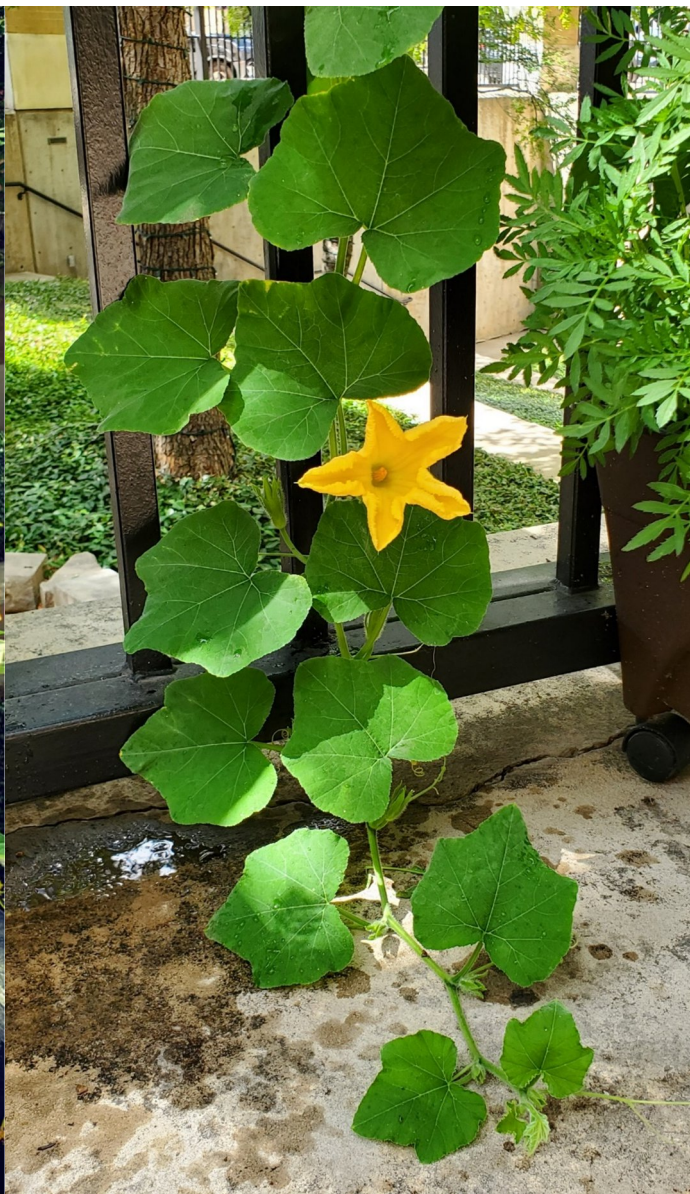
**El Centro College**  
DALLAS COUNTY COMMUNITY COLLEGE DISTRICT



















Community Pride



Opportunity



Education



# City of Dallas

1500 Marilla Street  
Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 20-463

**Item #:** B.

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CECAP: Access to Health, Local Sustainably Grown Food  
[Susan Alvarez, Assistant Director, Office of Environmental Quality & Sustainability]



# **CECAP: Access to Healthy, Local Sustainably Grown Food**

**Environment &  
Sustainability Committee**

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

**Office of Environmental  
Quality & Sustainability**

**March 2, 2020**



**City of Dallas**



# Overview

- Background
- Current Food Initiatives
- Community Feedback
- Draft CECAP Food Objectives & Strategies



2

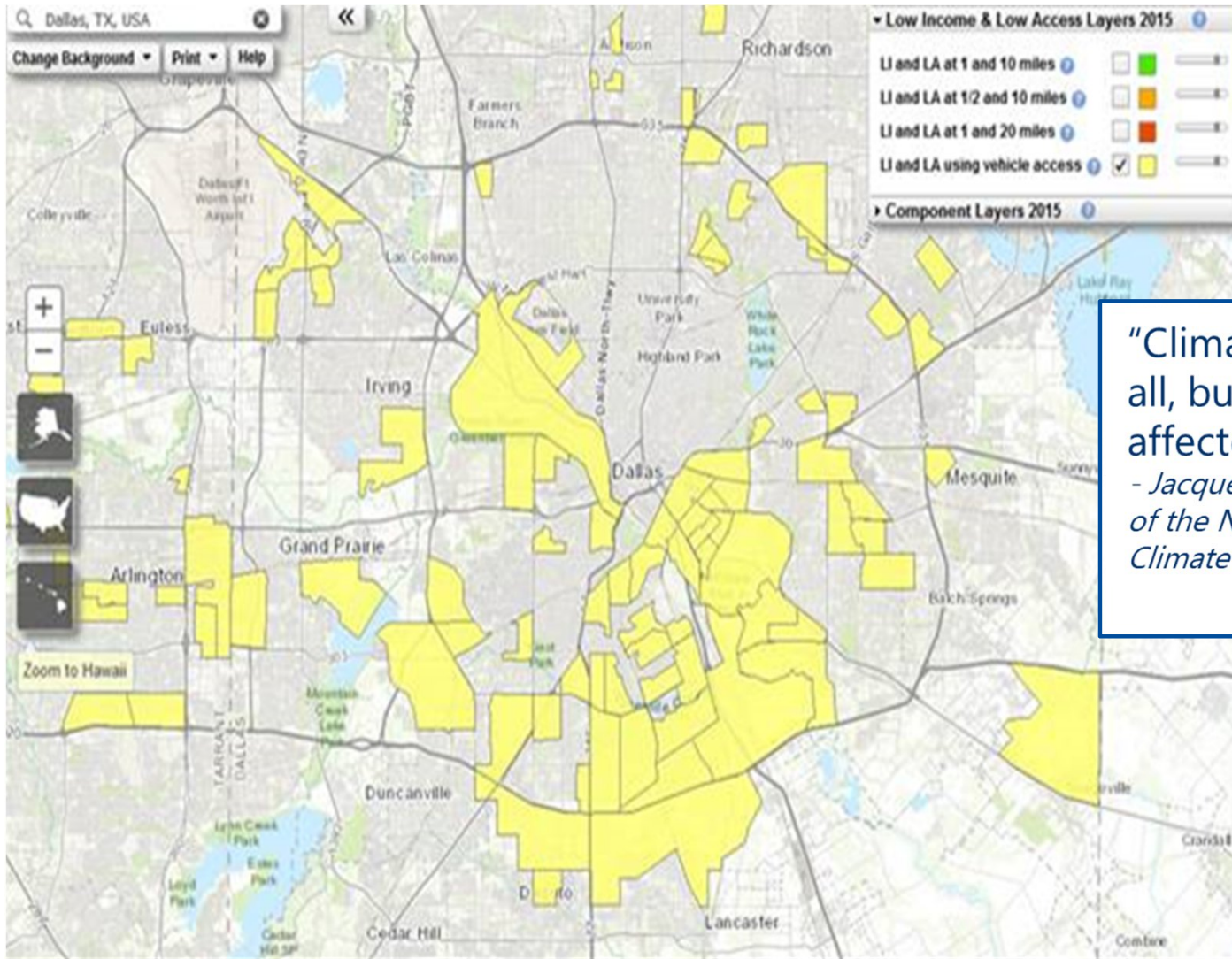
# Background

- Identified food deserts
- Food is generally not locally sourced
- Food supply chain is vulnerable to climate change
- Secure local food supply provides opportunities to strengthen the community





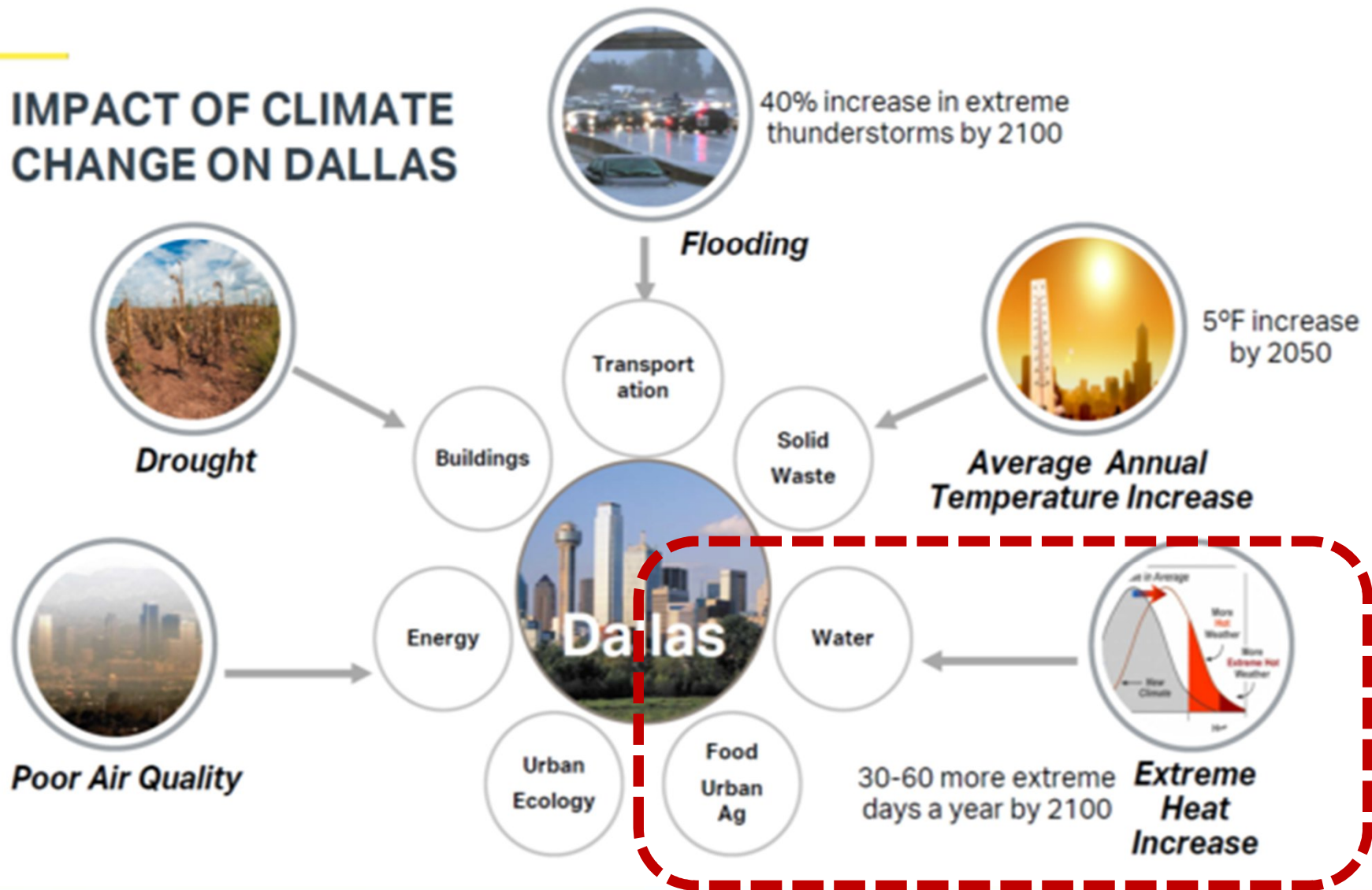
# Food Access Under Climate Equity Lens



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

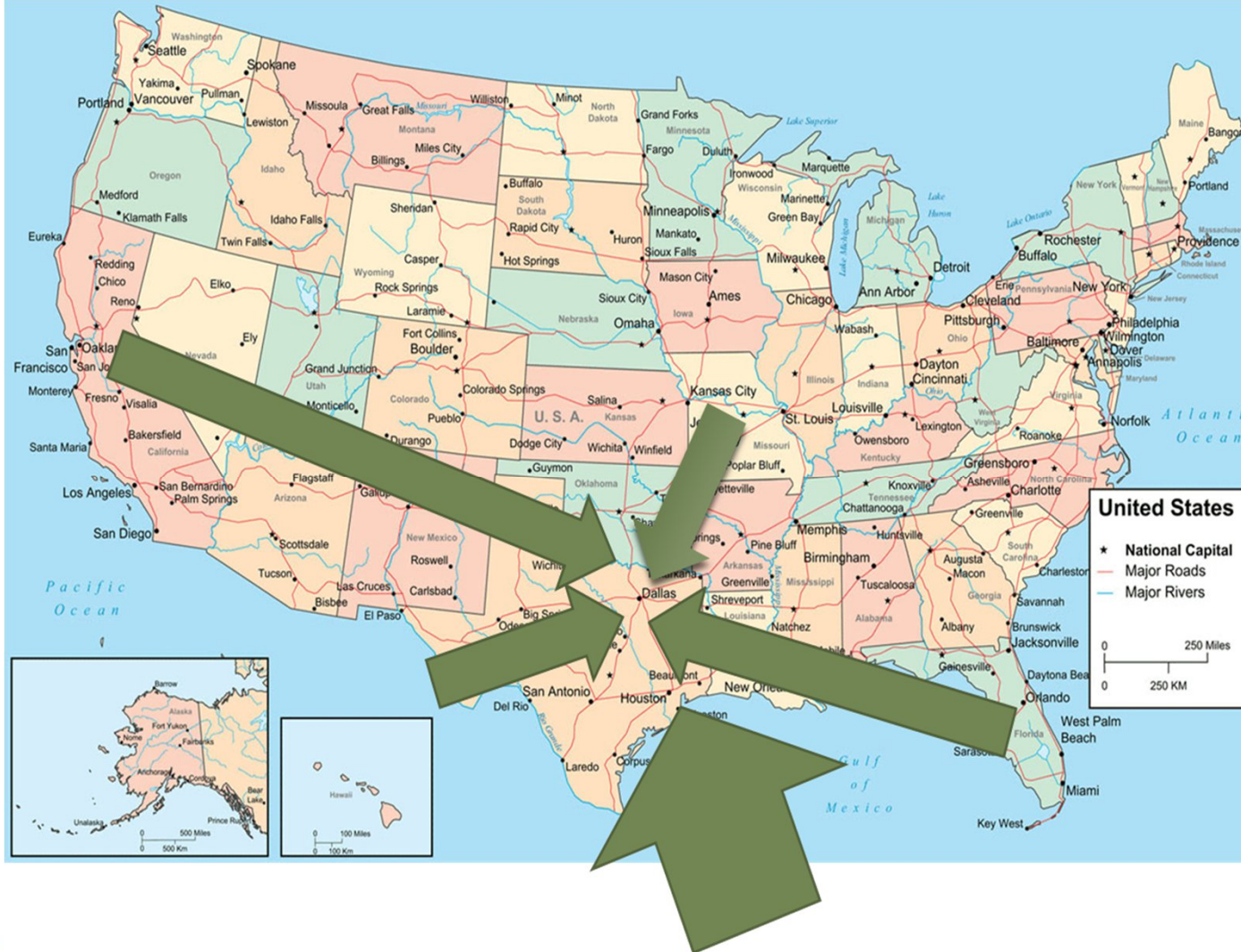
- Jacqueline Patterson, Director of the NAACP Environmental and Climate Justice Program

# IMPACT OF CLIMATE CHANGE ON DALLAS





# Background: Dallas Foodshed



# Dallas Food Innovation Challenge

- Effort led by Office of Innovation with Communities Foundation of Texas
- Food Task Force involves 13+ Departments
- Explores 4 key missions:
  - Better Food Access
  - Healthier Food Choices
  - More Locally Grown Food
  - Less Food Waste



<https://dallasinnovationchallenge.ideascale.com/>



- 1** Convert portions of city parks into food forests.



- 2** Refrigerated pods where you could stop by on your commute to pick up preordered grocery or meals.



- 3** A supply kit to start a garden at a school, removing a hurdle that a school could face for gardens.



- 4** A mobile grocery model to sell surplus food in food desert areas using SNAP benefits.



- 5** A cloud-based inventory system to allow households to access a food pantry inventory online.



- 6** A co-op and set of entrepreneurial toolkits to source, provide, and distribute local food.



- 7** A destination-venue grocery and commercial kitchen as a community anchor.

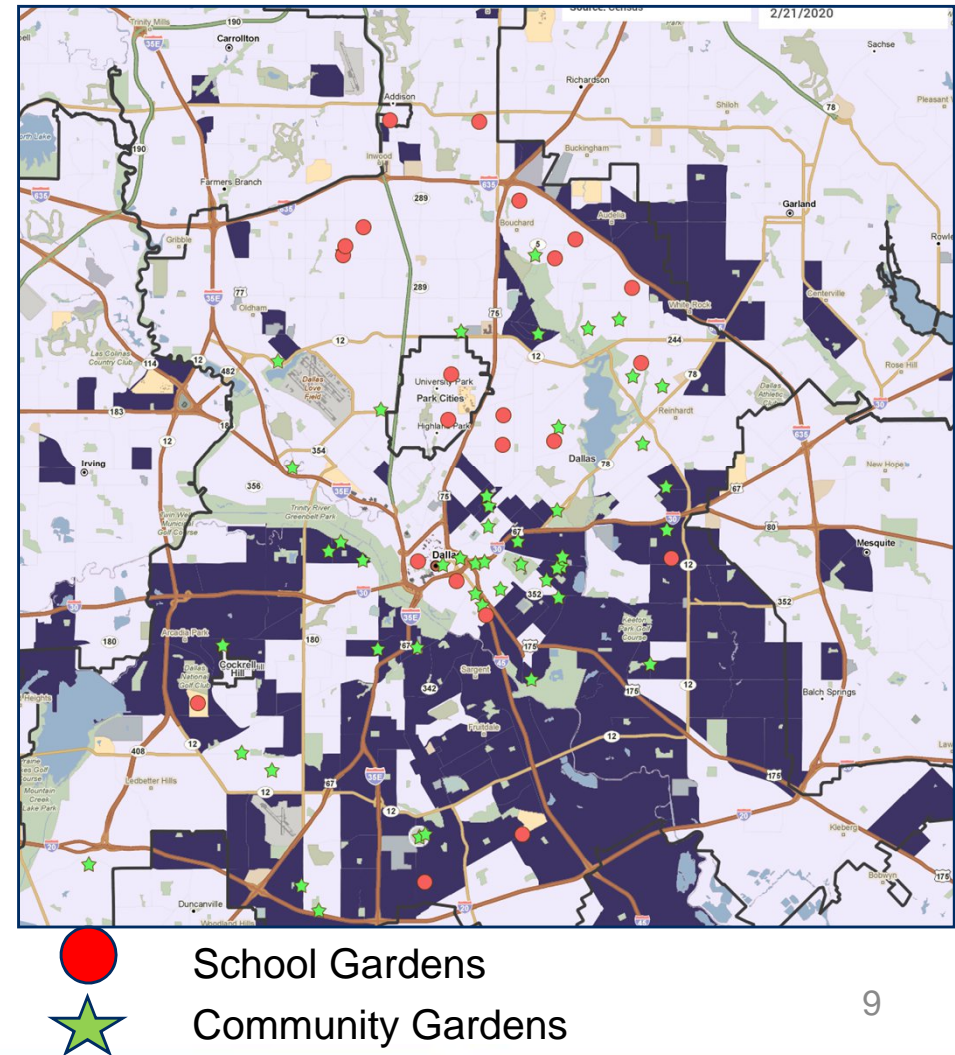


**FOOD IDEA**  
INNOVATION CHALLENGE

**SEMIFINALIST  
IDEAS**

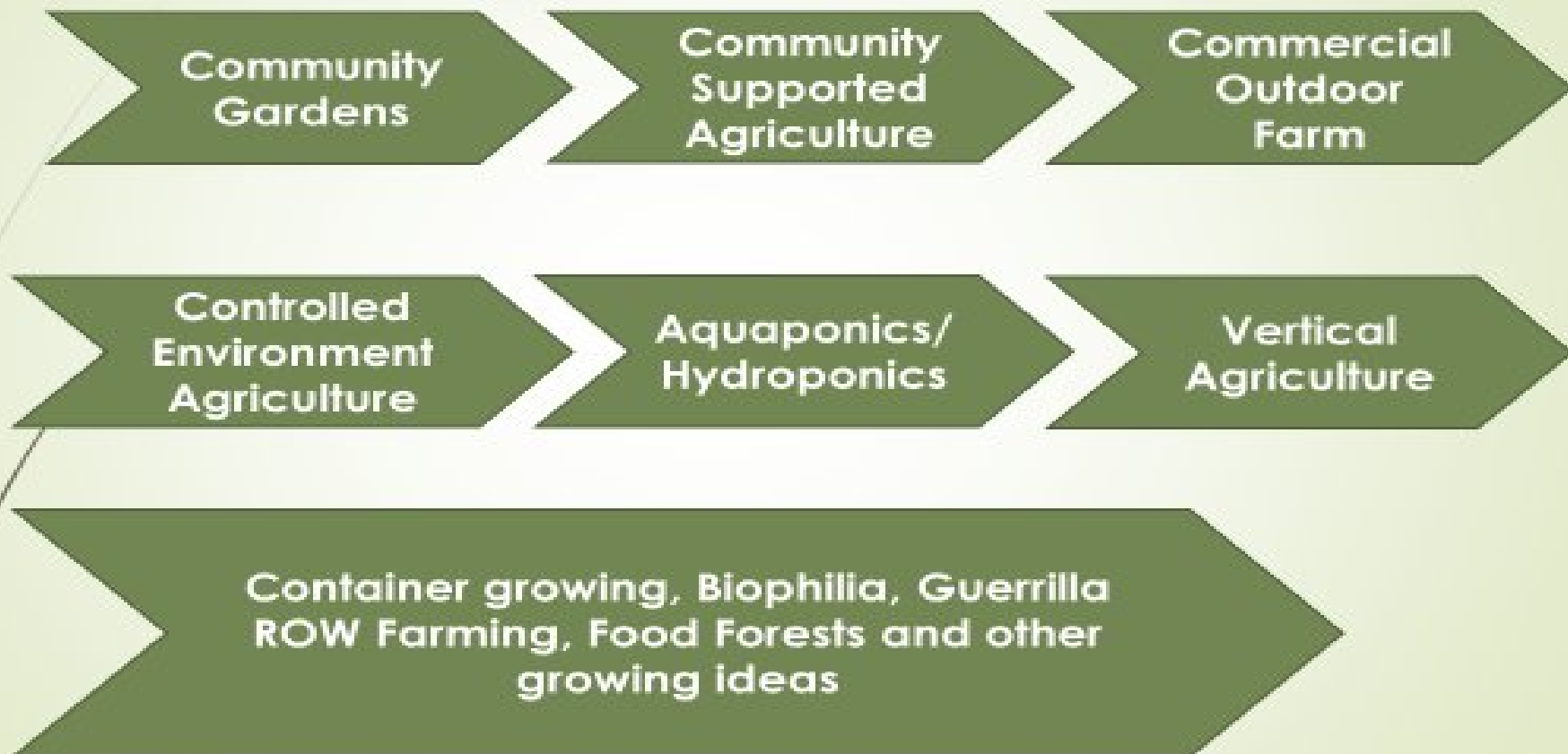
# Urban Agriculture Program

- Compiling data on current farms, farmers, food production, food diversion, and community distribution partners
- Working with current Food Innovation Challenge
- Working towards Dallas Urban Agriculture Plan





# Urban Agriculture Continuum



# Draft 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, sustainably grown food***
- All Dallas communities breathe clean **air**
- Dallas protects its **ecosystems** that in turn, protect public health



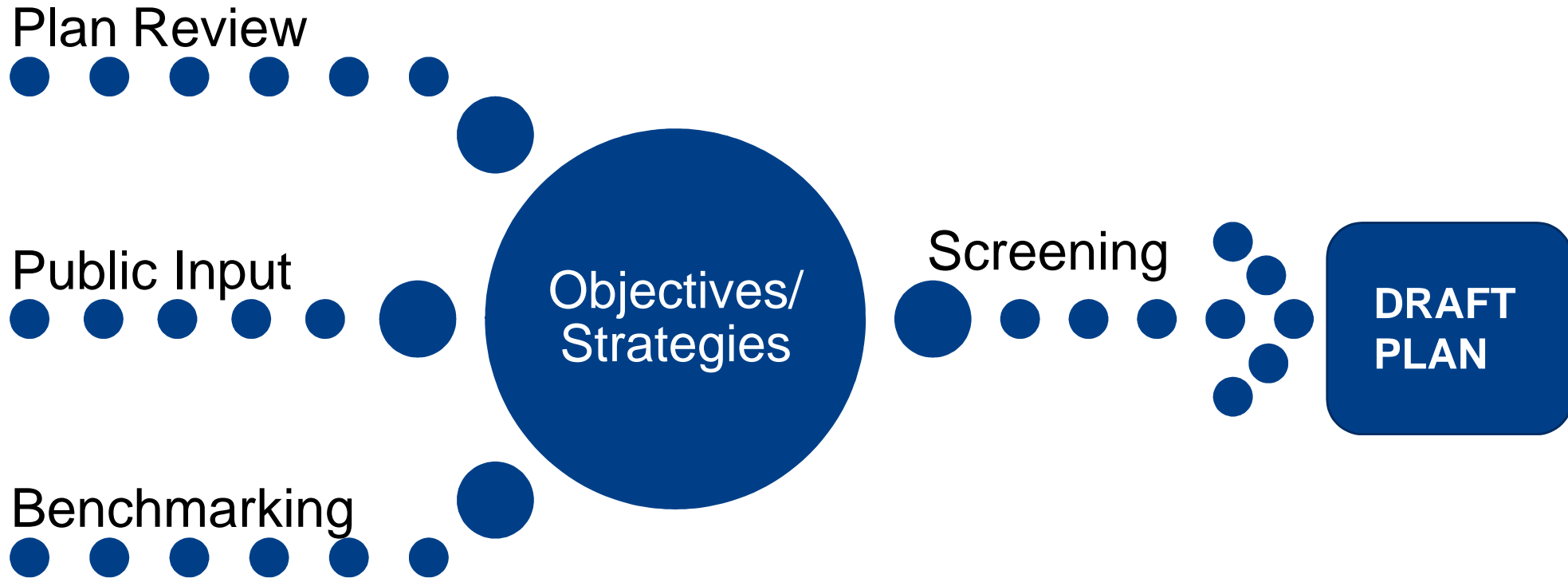
# Ideas from Community Outreach Efforts



*Photo source: Dallas Urban Farms*

- Increase numbers and locations of Community Gardens
- Provide food-related education and outreach
- Expand & support farmers markets
- Increase access to local produce
- Consider growing incentives

# Action Development Process





# CECAP Food Sector Objectives

- **Build capacity** & partnerships around Urban Agriculture network.
- **Improve food access** in food deserts
- **Reduce food miles** by encouraging local food production/consumption
- **Reduce food waste**
- **Increase food system resilience** to extreme weather



# Draft Food Objectives + Actions

*Build Organizational capacity \* partnerships around urban agriculture network*

- Increase access to **information**
- Create a **Food Policy Council**
- Develop a comprehensive food & **urban agriculture plan**



*Photo Source: Dallas AIA*

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# Draft Food Objectives + Actions

*Improve food access in food deserts*

- Develop **neighborhood-based growing** initiatives
- **Support non-profits solving food justice** through grants/ creative finance
- Identify creative transportation solutions to **access healthy food retailers**
- **Enable mobile grocery stores** in neighborhoods with low food access



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# Draft Food Objectives + Actions

*Reduce food miles by encouraging local food production and consumption*

- **Support food-related green jobs** in food production, processing, storage, distribution and waste management
- **Establish local food procurement program** at City sponsored events
- Enhance market to provide **incentives** to sell affordable **locally-produced food**



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# Draft Food Objectives + Actions

*Prepare the food system to be more resilient to extreme weather events*

- **Support food system stakeholders** with tools to plan for extreme weather events
- **Identify opportunities for controlled environment agriculture** that is less energy and water intensive.



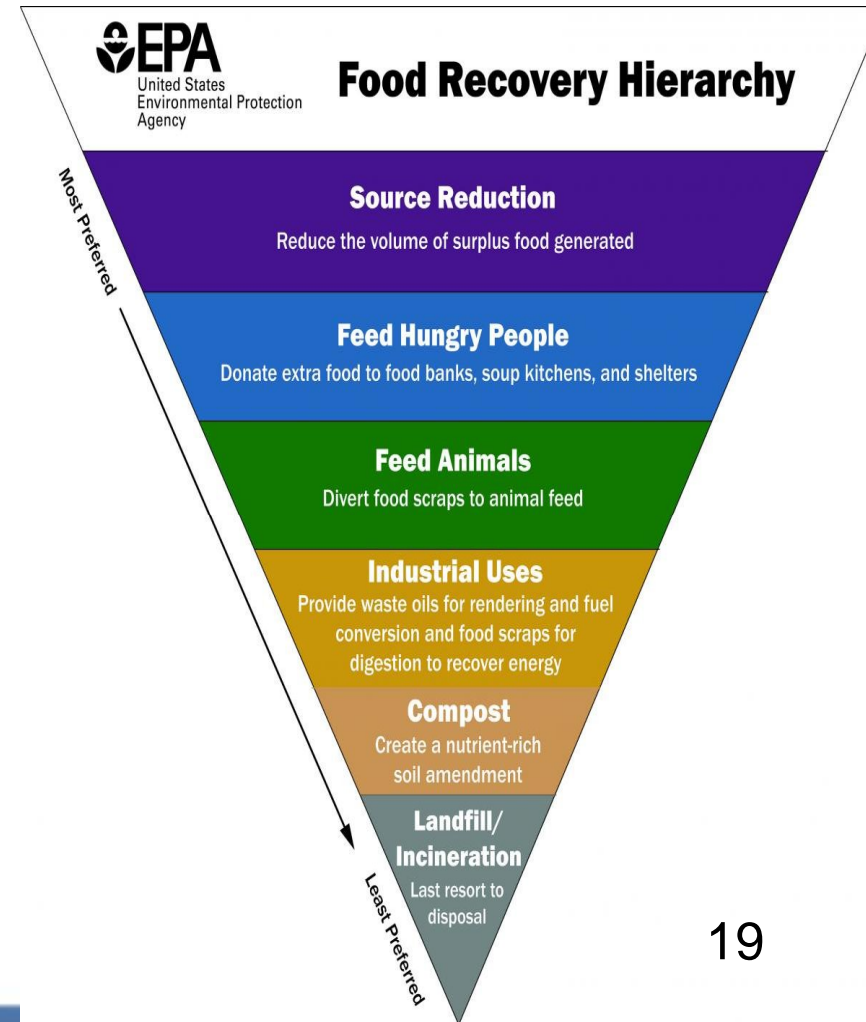
*Photo source: Big Tex Farms*

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# Draft Food Objectives + Actions

*Prevent food waste through food donations, recovery, diversion & composting*

- Collaborate with non-profits to **divert surplus food** from grocery stores and markets to people in need
- **Encourage local food procurement**, waste recycling and compost bins at special events
- Implement a **city-wide organics management** program



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# Next Steps

- Draft Plan Review: February 3 - March 3, 2020
- Finalized plan Text to consulting for formatting: March 6, 2020
- Full Plan review: April 6, 2020
- Plan resolution to Council: April 22, 2020

# Questions and Comments

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# **CECAP: Access to Healthy, Local Sustainably Grown Food**

**Environment &  
Sustainability Committee**

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

**Office of Environmental  
Quality & Sustainability**

**March 2, 2020**



**City of Dallas**



# City of Dallas

1500 Marilla Street  
Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 20-464

**Item #:** C.

---

CECAP: Dallas is a Zero-Waste Community

[Tim Oliver, Interim Director, Dallas Sanitation Services Department, and Danielle McClelland, Zero Waste Division Manager, Office of Environmental Quality & Sustainability]



# **CECAP: Dallas is a Zero-Waste Community**

## **Environment & Sustainability Committee**

**Tim Oliver  
Director (Interim)  
Sanitation Services Dept.**

**Danielle McClelland  
Zero Waste Division Manager  
Office of Environmental  
Quality & Sustainability**

**March 2, 2020**



# **City of Dallas**

# Overview

- Background
- Zero Waste Plan Status
- Draft CECAP Plan Focus & Goals
- Community Feedback
- Draft CECAP Zero Waste Objectives





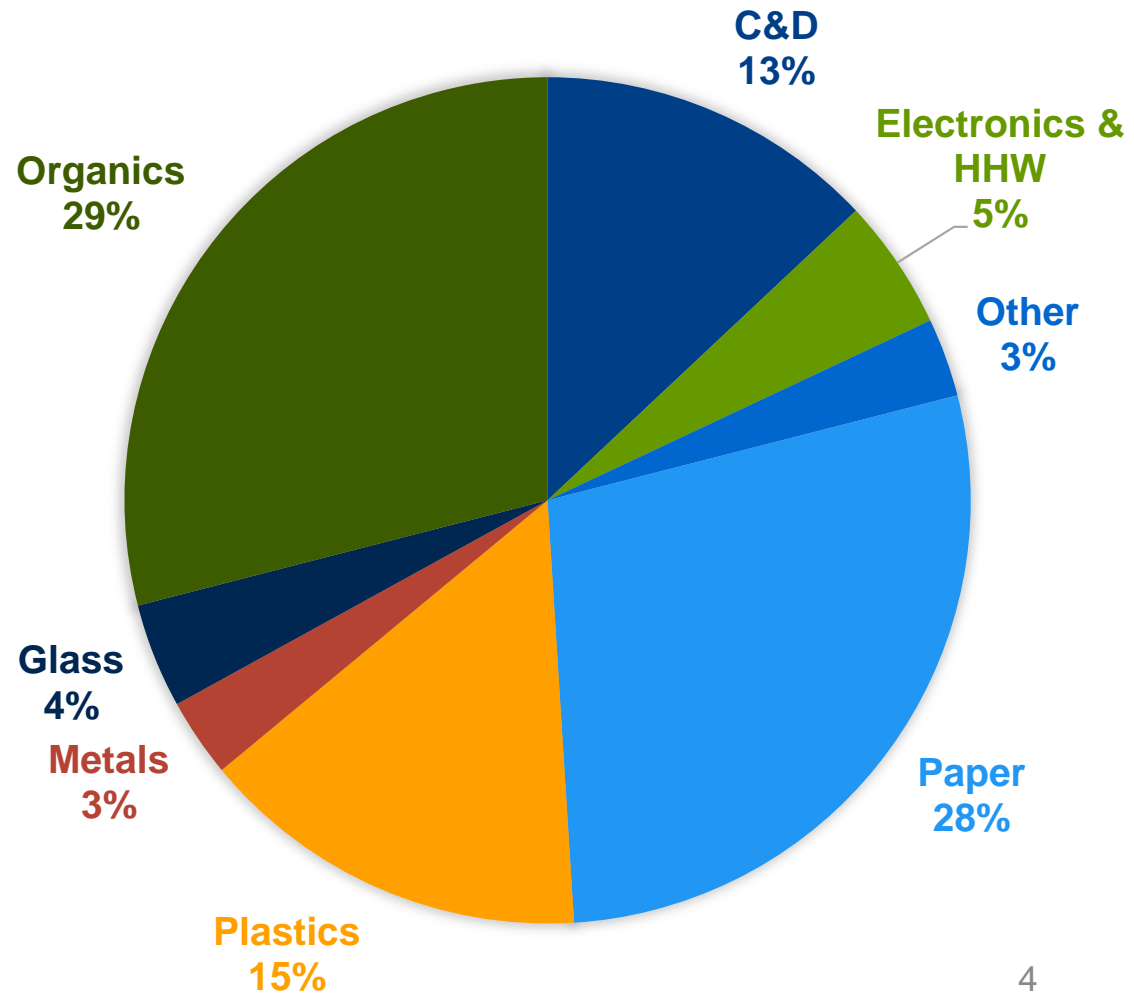
# Background: McCommas Bluff Landfill (MBLF)

- Estimated landfill life of 35 years
- Receives ~1.9M tons/ year
- City crews deliver ~30% or 600,000 tons annually
- Other 70% comes from multiple sources

3

# Background – MBLF Waste Composition\*

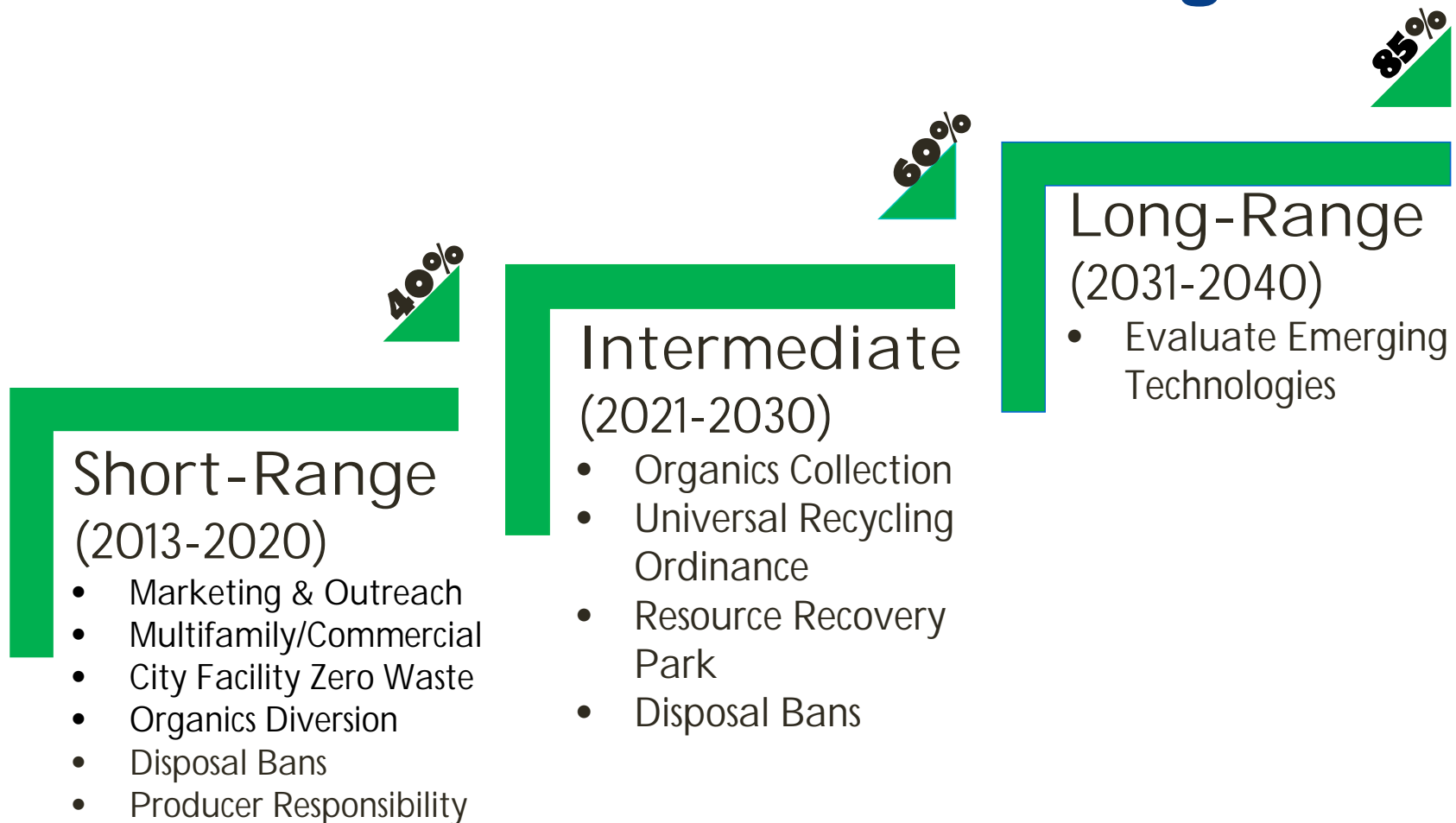
- Based on waste audit of 5.2 tons from residential and commercial collections
- Greatest opportunities are in organics, paper, and construction & demolition (C&D)



\*Source: City of Dallas Sanitation Services, 2014



# Zero Waste Plan: Goals & Strategies\*



\*Source: *City of Dallas Local Solid Waste Management Plan, 2013*

# Zero Waste Plan: Multifamily Recycling

- YTD, 125 multifamily properties have submitted recycling plans *(see Appendix, slides 25-26)*
- Of those submitted, 62% have been approved
- Staff is conducting random and on-request property site visits
- Staff continues to host Recycling 101 education sessions
- YTD, **46** site visits and **17** education sessions
- Resources at [www.dallasrecycles.com](http://www.dallasrecycles.com)



# Zero Waste Plan: MFRO Lessons Learned

- Public and private sectors both need time to increase system capacity, build the required infrastructure, educate customers, and plan budget to support MFRO
- Change requires extensive outreach, education, and compliance consultations
- Internal systems needed to be updated/created for permitting, annual report submissions, and property registrations
- Unaddressed provisions are requiring City Plan Commission to implement tiered minimum required parking to support compliance

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# Zero Waste Plan: Organics Diversion

- Dallas currently collects brush & bulk waste together
- Organic materials is about 40%-60% of the waste stream
- Based on recent studies, up to 29% of landfilled materials are organic
  - Organics, including food waste, present future opportunities to increase diversion
- June 12, 2019, Council adopted ordinance changes to implement incremental brush/bulk program modifications
  - Changes which go into effect July 1, 2020 will establish volume limits and promote compliance to help establish a baseline for future program pilots to include organic diversion



# Zero Waste Plan: Commercial Recycling

- The recommended strategy to address the path forward on commercial recycling, has been to:
  - *Identify Players* ✓
  - *Research other Benchmark City Commercial Recycling Programs* ✓
  - *Identify Opportunities & Constraints* ✓
  - *Develop phased implementation and related ordinance* ✓



# 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
- 2,501 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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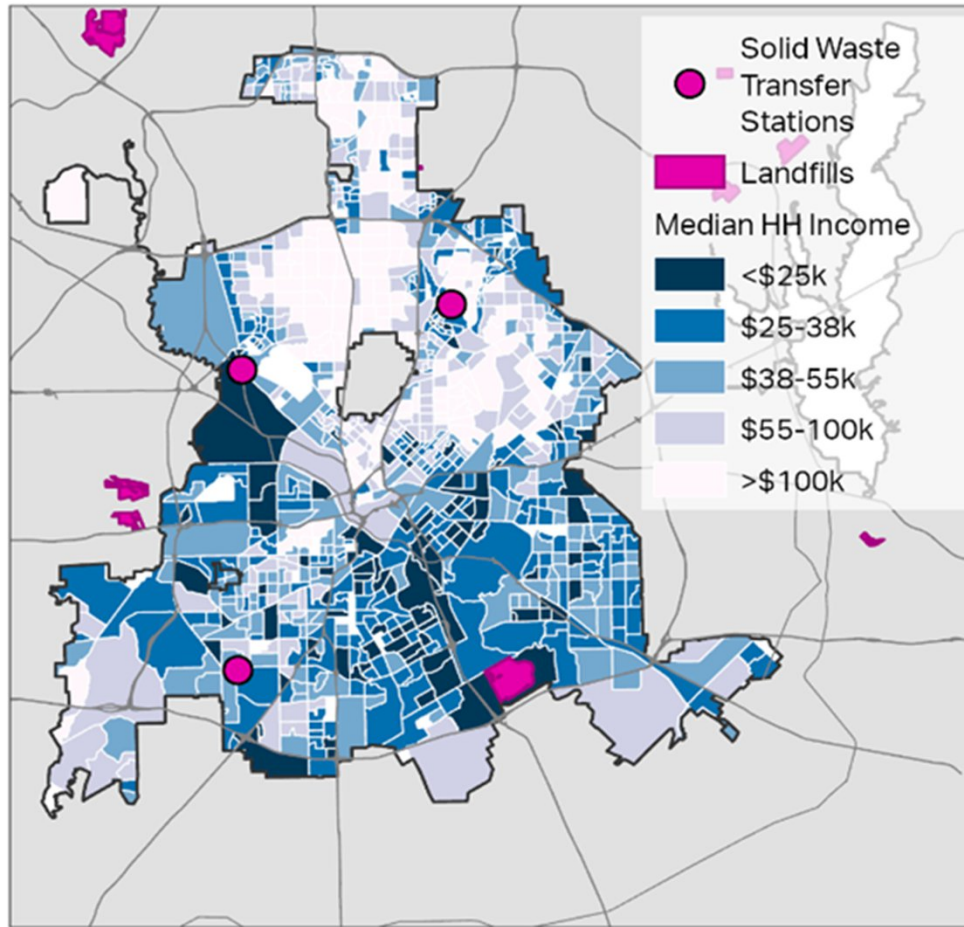


# Draft Plan Focus & Goals

- 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

## Low Income vs Landfills

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



# Waste Management Under Climate Equity Lens

"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)



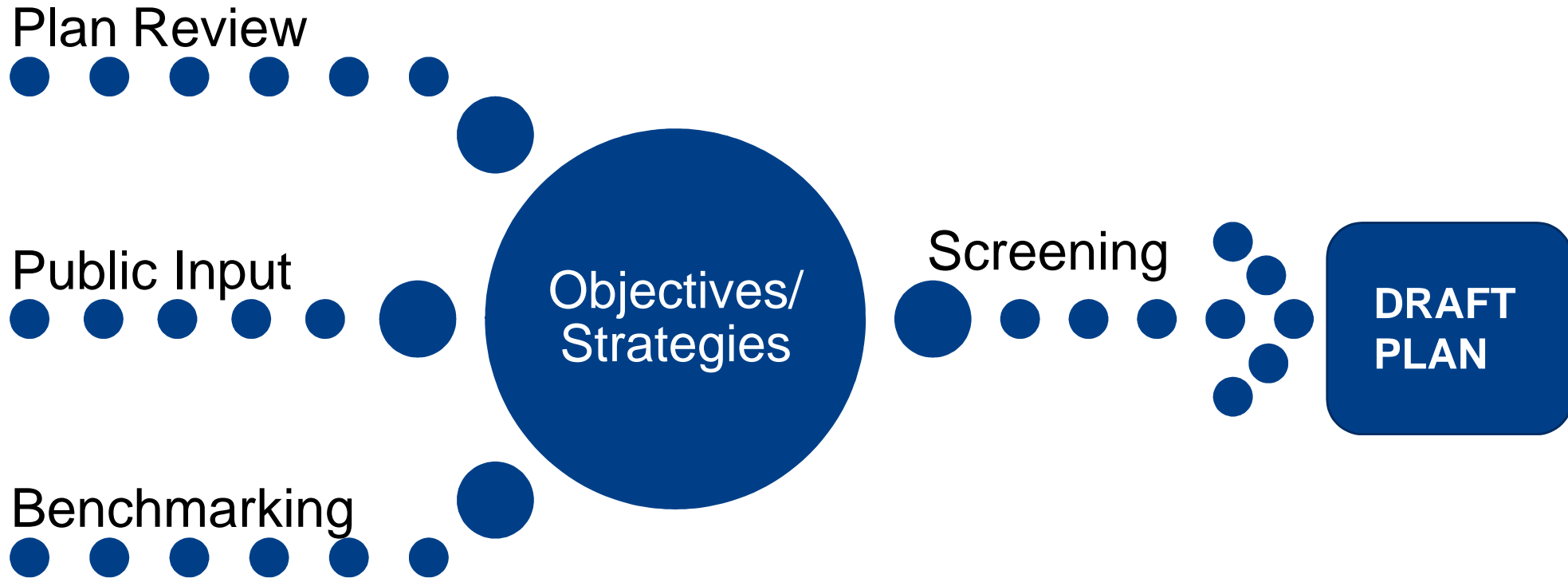
# Ideas from Community Outreach Efforts

- 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



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# Action Development Process





# CECAP Waste Sector Objectives



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

# Draft 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



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# Draft 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
- Update & implement Local Solid Waste Management Plan (AKA Zero Waste Plan)
  - Update Emergency Debris Management
- Expand efforts to reduce illegal dumping
- Encourage development of material markets – focusing on creating new economic opportunities



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# Draft 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



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# Next Steps

- Draft Plan Review: February 3 - March 3, 2020
- Finalized plan Text to consulting for formatting: March 6, 2020
- Full Plan review: April 6, 2020
- Council Resolution: April 22, 2020



# Questions and Comments

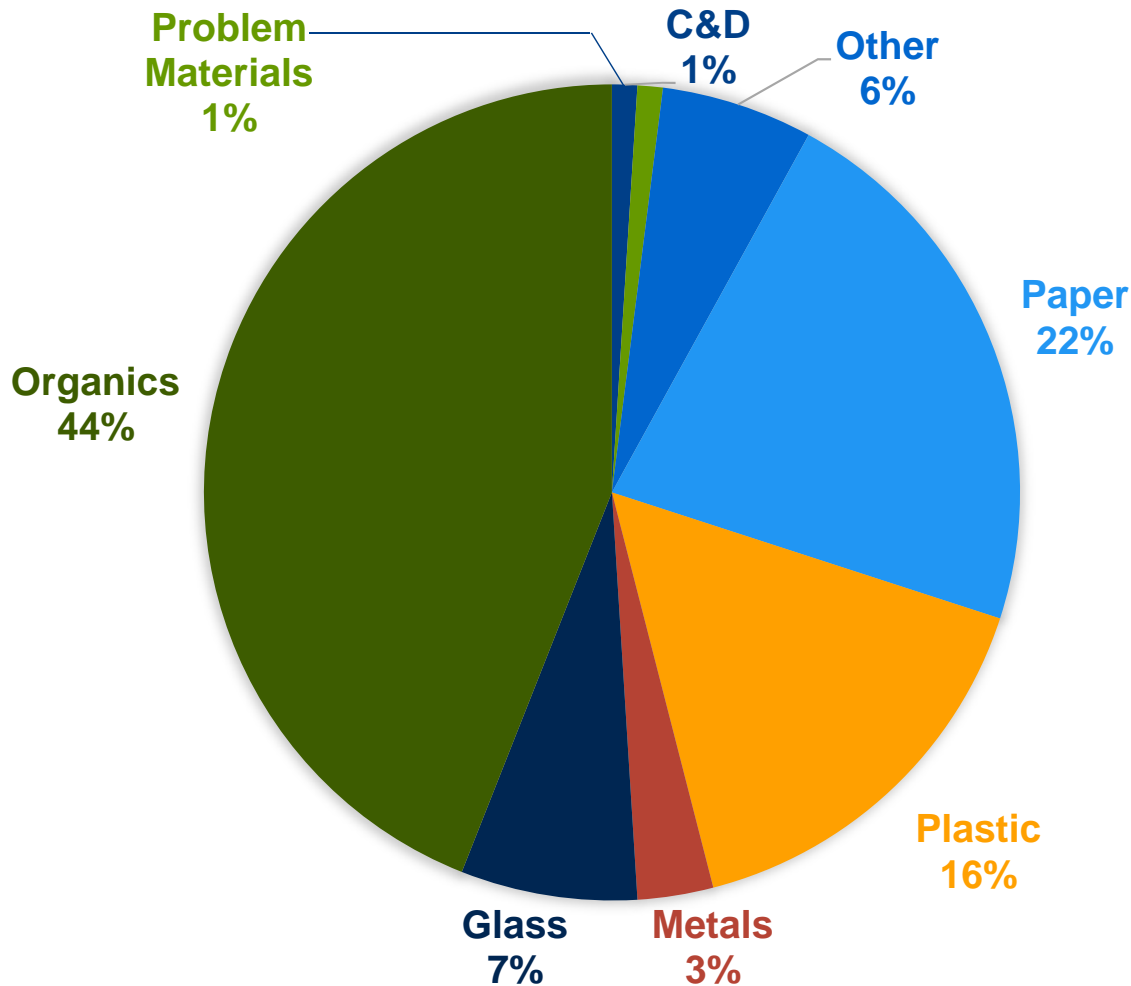
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# Appendix



# 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



# Zero Waste Plan

- Approved in 2013
- Major shifts in the last six years
  - Global Markets & Technology
  - Air Quality
  - Climate Change
  - Public Awareness & Tolerance for Change
- Time to update Plan Goals and Strategies

# Zero Waste Plan: Single Family Recycling

- Voluntary
- 240,000 accounts
- 55,000 Tons/Year
- Reported diversion rate is ~20% corresponding with single family residential residential program



# Zero Waste Plan: Multifamily Recycling

- MFRO adopted June 23, 2018, went into effect January 1, 2020
- Requires properties to:
  - Offer minimum service levels;
  - Use registered recycling collector;
  - Provide ongoing education
  - Submit annual recycling plan with Code multifamily renewal (on a rolling basis monthly)
- As of February 21<sup>st</sup>, **312** properties have initiated multifamily renewals\*

*\* Renewals are initiated when the account holder begins the application; recycling plans<sub>r25</sub> are not submitted until account holder completes the application and pays required fees.*



# Zero Waste Plan: Multifamily Recycling



- Requires recycling collectors to:
  - Use marked containers;
  - Submit annual reports to City;
  - Deliver to an authorized recycling processor;
  - Provide education and specific level of service to properties
- **22** recycling collectors permitted to date

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# Zero Waste Plan: Commercial Recycling

- OEQS has reviewed 12 Benchmark City recycling programs and learned:
  - *El Paso & Orlando encourage, but do not require mandatory multi-family or commercial recycling;*
  - *Phoenix implements “Eco-zones” in parks, and other public places near commercial/ multi-residential areas to facilitate voluntary commercial/ multi-family recycling;*
  - *Remaining programs typically require single-stream recycling related to primary business operation, along with some C&D and vegetative waste;*
  - *Most cities allow variances for hardships and for facilities that generate small quantities of recyclable waste;*
  - *Most cities also handle multi-family and commercial recycling requirements together in one universal recycling ordinance.*

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# Zero Waste Plan: Commercial Recycling

- Multi-family process for hauler registration may be used to support commercial recycling
- Paper, cardboard, and organics including food waste may form easiest way to expand diversion to commercial entities
- Phased implementation is strongly recommended due to #s and different types of businesses (art galleries, bars, banks, churches, dry cleaners, schools, shopping centers, truck stops, warehouses, etc)



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# CECAP: Dallas is a Zero-Waste Community

## Environment & Sustainability Committee

Tim Oliver  
Director (Interim)  
Sanitation Services Dept.

Danielle McClelland  
Zero Waste Division Manager  
Office of Environmental  
Quality & Sustainability

March 2, 2020



# City of Dallas