# Food Solutions: Preventing Waste & Hunger

Data Aggregation forFuture Program Implementation

# Food Insecurity\*



United States
Citizens

Shelby County Residents

## **Food Waste**

Up to **40%** of ALL food produced for humans in the US wastes

TN's landfills are at least **21%** food waste, increasing methane emissions

Each US citizen wastes ~\$371 of food each year. In Shelby County, that number would be nearly:

\$348,000,000.00

<sup>\*&</sup>lt;u>The USDA's</u> measure of lack of access... to enough food for an active, healthy life ... and limited or uncertain availability of nutritionally adequate foods.

## **Current Challenges**

MidSouth Food Bank is the main Food Aggregator and Distributor

Not all Food Pantries, Soup Kitchens, or Services are able to work with them

Individual donations and grassroots campaigns attempt to fill gaps

Logistical barriers can prevent the involvement of willing donors, such as restaurants, grocers, and other food retailers

School/volunteer farms may lack an appropriate outlet for excess production

## **Potential Solution - Redirecting Food**

#### **Considerations**

Encouraging participation without burdening participants

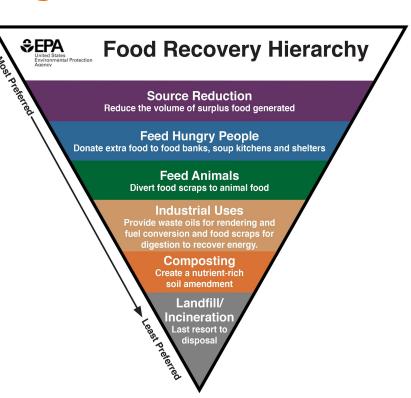
Multiple organizations already addressing this

#### **Challenges**

Logistical supply-chain challenges

Success harder to measure for multiple pursuits

Current system relies heavily on 1 organization



### Goals

**Identify** potential **opportunities** for improving current infrastructure

**Minimize** food **waste** by diverting surplus supplies to organizations fighting food insecurity

**Empower** other groups' **education** and implementation with information

**Spark** larger **conversations** in the Memphis metro area about:

- Food Insecurity
- Food Waste
- Community-based Solutions

## **Our Approach**

Create a map-based record of key players & data elements pertaining to Memphis' local food system

- Food Producers, Distributors, & Suppliers
  - Farmer's Markets, CSA's, Urban Farms/Food Gardens
  - Fresh Grocery Retailers
  - Restaurants
- Organizations Serving Food Insecure Communities
  - Food Pantries
  - Soup Kitchens
  - Shelters & Community Centers
- Data Elements
  - Food Deserts
  - Poverty Data
  - Transit Data

# Map



Zip codes — 38126, 38105, 38108, and 38106, with average median household income of \$19,107 a year

MemphisFoodAccessMap2.0

ACS Poverty Status Variables - Boundaries -Tract

Percent of Population whose income in the past 12 months is below poverty level

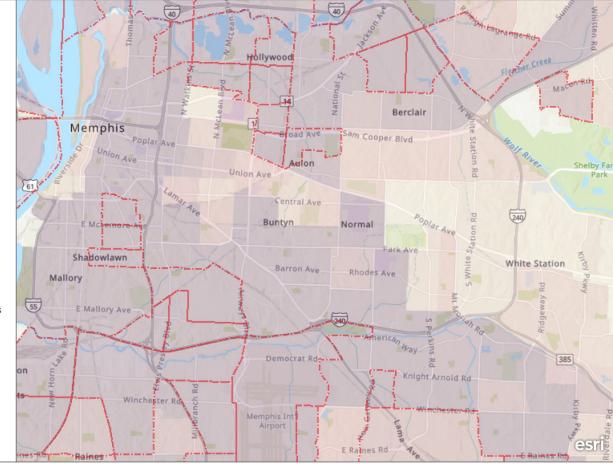
- > 26.3 - 14.1

Food Deserts (USDA ERS 2015)

Low Income and Low Access at 1 and 10 miles

Det

LI and LA at 1 and 10 miles 2015



https://arcg.is/059rO5

MemphisFoodAccessMap2.0 project\_greenfork\_members Hollywood "Big Box" Stores-programs unknown Berclair Restaurants-some Memphis am Cooper Blvd program Shelby Far Park grocers - program unknown Central Ave Ħ Normal Buntyn E Mckemore A Park Ave Kroger-some program Shadowlawn Barron Ave Ħ Rhodes Ave Mallory H E Mallory Ave **ACS Poverty Status** (55) Variables - Boundaries -**Tract** American Way Democrat Rd 385 Percent of Population whose income in the past 12 Winchester Rd months is below poverty level > 26.3 esri - - E Raines Rd

MemphisFoodAccessMap2.0 **MATA Routes** project\_greenfork\_members "Big Box" Stores-programs unknown Memphis Restaurants-some program grocers - program unknown Ħ **Kroger-some program** H Gardens/Farms Mormal PA **ACS Poverty Status** Variables - Boundaries -Tract esri

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MemphisFoodAccessMap2.0 **MATA Routes** Hollywood . project\_greenfork\_members **Food Pantries and Banks** Memphis "Big Box" Stores-programs unknown Restaurants-some program grocers - program unknown Ħ **Kroger-some program** PA Gardens/Farms Shadowlawn esri 1mi

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MemphisFoodAccessMap2.0 **MATA Routes** project\_greenfork\_members Community Centers -Sheet1 Memphis **Food Pantries and Banks** "Big Box" Stores-programs unknown Restaurants-some program grocers - program unknown Ħ PH Kroger-some program H esr 1mi

## **Takeaways & Next Steps**

Connect with Robert Onstad (MidSouthFoodBank & MealConnect) and Ashley Cabrera (GetFoodSmartTN)

Suggest MealConnect from Feeding America & Food Rescue US apps as options

Encourage everyone today to participate via **PLEDGE** and **CHALLENGE** 

Prompt others to build on map: communities verify additional retailers & restaurants Suggested uses: educational outreach, community projects, funding applications







