

**11:30 am Pacific Time
October 3, 2024**

**NATIONAL
ZERO
WASTE
CONFERENCE**

Plenary #2

How States are Helping Communities Move Toward Zero Waste

Speakers:

Kathi Mirza

Erin Girard

Jeremy Drake

Moderator: Gary Liss

Hosted by:



Day 2 • Zero Waste Communities

**11:30 am Pacific Time
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Gary Liss
Principal
Zero Waste Associates

**Plenary #2 - How States are Helping
Communities Move Toward Zero Waste**



National Zero Waste Conference 2024

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Kathi Mirza

Branch Chief

**Municipal Waste Reduction
Programs, MassDEP**

**Plenary #2 – How States are Helping
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BRIDGE TO ZERO WASTE: HANDS-ON ASSISTANCE & MUNICIPAL GRANTS

MASSDEP MUNICIPAL WASTE REDUCTION PROGRAM

NATIONAL ZERO WASTE CONFERENCE

OCTOBER 3, 2024



MUNICIPAL WASTE REDUCTION PROGRAMS

Our Three-Legged Stool

Technical Assistance

- Municipal Assistance Coordinators
- 1:1 Site Visits
- Working Groups
- Websites & Templates

Grants

- Sustainable Materials Recovery Program
- Reuse Microgrants

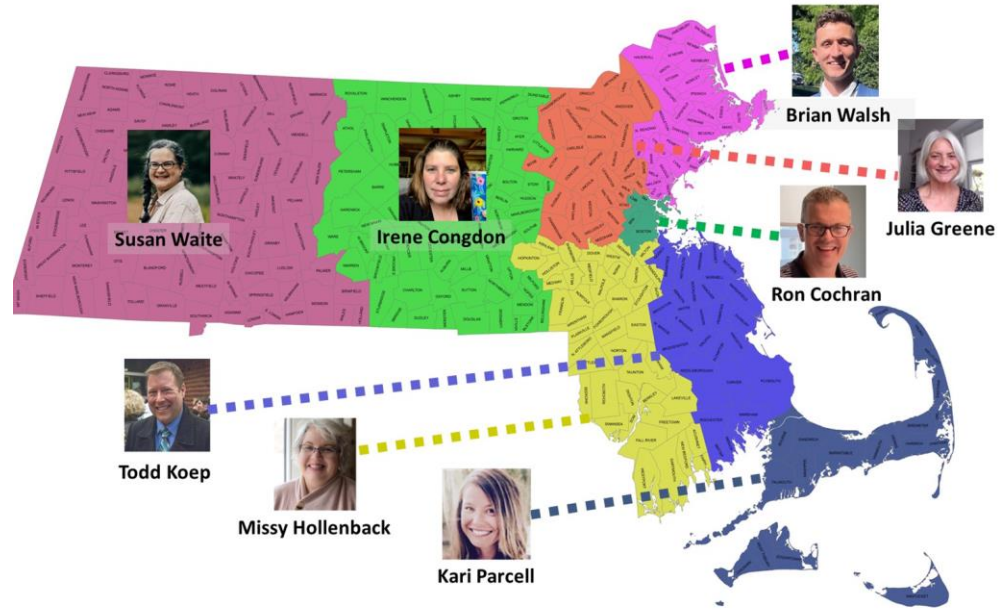
Outreach and Education

- RecycleSmartMA
- Beyond the Bin
- Webinars/Trainings

TECHNICAL ASSISTANCE

MEET THE MACS

MassDEP Municipal Assistance Coordinators



SHORT TERM PROJECTS: HELP IS AVAILABLE

- Municipalities apply for up to 80 hours of technical assistance
- Single project from 6 categories with specific deliverables
- Rolling applications accepted
- 160 projects awarded since 2014

Examples:

- ✓ Pay-As-You-Throw
- ✓ Contracting for Solid Waste/Recycling
- ✓ School Recycling & Composting
- ✓ Regional Initiatives
- ✓ Regulations and Enforcement
- ✓ Recycling IQ Implementation



WORKING GROUP: BEST PRACTICES FOR HAULING CONTRACTS

- Monthly meetings
- Municipal officials only
- Fiscal year cycle
- Invitation to municipalities whose contracts are expiring w/in 24 months
- Follows Best Practices guidance
- Google Site document banks
- FY25 is 3rd year running



WORKING GROUP: GREEN SWORD

School Waste Reduction & Diversion

- Quarterly Meetings
- Google Site with resources
- 4 active working groups
 - Policies
 - Composting
 - Reusable Foodware
 - Events



MUNICIPAL RECYCLING COORDINATOR MEETINGS + NEWSLETTERS



MassDEP Meeting Follow-up

Municipal Recycling Coordinator's Meeting

Make Your Job Easier - Improve Your Website



During the October 24 webinar, participants learned how to turn municipal solid waste webpages into powerful public education tools. We heard from a variety of municipalities with different challenges and resources, as well as an expert in Household Hazardous Waste communication, and were presented with webpage templates to make improving websites easier. Providing easily accessed, consistent information to your residents will save you time and help earn RDP points for your community—what have you got to lose?



MassDEP

Waste Reduction News

November 2023 MassDEP Municipal Assistance Coordinators

MassDEP Awards \$5.2 Million to Support Recycling & Waste Reduction to 283 Munis & Regional Groups



"Some of the most important environmental protection work happens every day Saved to this PC across our state," said Governor Maura Healey. "These grants help further our collective efforts to meet our aggressive goal of **90 percent waste reduction by 2050**, while also boosting local economies by investing in the waste reduction industry." [Read More](#)

Municipal Waste Reduction Branch Announces Staff Updates & New Hires

MassDEP is pleased to announce some exciting changes to the Waste Reduction Branch! We

TEMPLATE:

BEST PRACTICES FOR MUNICIPALITIES DEVELOPING PRIVATE HAULER REGULATIONS

ATTACHMENT 1: Banned Materials

Following is a list of materials which have been banned from landfill or incineration disposal by the Massachusetts Department of Environmental Protection, with the date that material was banned. These materials are banned either because they pose an environmental threat or because there are methods for reusing or recycling those materials

Optional Table: List of Waste Ban Materials: 310 CMR 19.017

MATERIAL	DATE OF BAN
Lead Batteries	December 31, 1990
Leaves	December 31, 1991
Tires	December 31, 1991
White Goods	December 31, 1991
Other Yard Waste	December 31, 1992
Aluminum Containers	December 31, 1992
Metal / Glass Containers	December 31, 1992
Single Polymer Plastics	December 31, 1994
Recyclable Paper	December 31, 1994
Cathode Ray Tubes (CRTs)	April 1, 2000

PERMIT APPLICATION

TO REMOVE, TRANSPORT AND DISPOSE OF SOLID WASTE OR RECYCLABLES IN TOWN/CITY

Instructions

All sections of this application must be completed. Incomplete applications will not be considered.

(Note to User: Language below is based on Board of Health authority to enact and implement this process. If another authority/process is undertaken, consider modifying to reflect appropriate citations throughout.) In accordance with MGL Chapter 111, Sections 31 A and 31B and in accordance with the Town/City's (bylaw/ordinance or regulation), the undersigned makes application to the Board of Health for permission to collect and transport Solid Waste and/or Recyclables as set forth below:

- Check here if this is your first application.
 Check here if this is a renewal application.

Permit Fee

The application fee is insert fee per company (and/or per truck) seeking a permit to operate in the Town/City of _____.

Please select which type(s) of collection you will be providing (check all that apply):

GENERAL LANGUAGE TEMPLATE

RULES AND REGULATIONS FOR REMOVAL, TRANSPORT, AND DISPOSAL OF SOLID WASTE OR RECYCLABLES IN THE TOWN/CITY OF _____

I. Purpose

The goal of these regulations is to protect public health and the environment and ensure that all Private Haulers collecting Solid Waste and Recyclables adhere to the Massachusetts Waste Ban regulations and uniformly comply with permit requirements established by the Town/City of _____. This should ensure that:

- The environmental benefits of recycling are maximized;
- There is joint enforcement of the Waste Ban requirements by the municipality and all Private Haulers operating within the municipality;
- There are fair and equitable rules for all Private Haulers operating in the municipality;
- All residents and businesses have convenient (parallel) access to recycling collection services;
- All Private Haulers licensed to operate in a municipality are in compliance with state regulations (310 CMR 19.017);
- There is greater consistency across municipalities to promote clear operating guidelines for Private Haulers; and,
- Municipalities and Private Haulers work together to support the goals of the Solid Waste Master Plan and the Global Warming Solutions Act.

II. Authority

These regulations establish minimum requirements for the systematic collection of Solid Waste and Recyclables in order to promote waste reduction, comply with State-mandated Waste Bans (310 CMR 19.017), and further the goals of the Town/City of _____. The Board of Health of the Town/City of _____ adopts these regulations under the provisions of Chapter 111 Sections 31, 31A, 31B, 122 and 150A of the Massachusetts General Laws.

Private Haulers shall only collect for disposal those items acceptable for disposal. Materials banned from disposal under 310 CMR 19.017 shall not be included with Solid Waste.

III. Effective Date

These regulations shall take effect on _____.



TEMPLATES: MUNICIPAL CONTRACTING

Best Practices

A Checklist for Successful Recycling Procurements and Contracts for Curbside Recycling Services

October 2020

Recycling programs are a vital municipal service. Collection and processing technologies evolve, recyclable materials change, market demand and prices for recycled materials go up and down. Municipalities must navigate change while also providing services in a consistent and fiscally responsible manner. These best practices can assist Massachusetts communities to develop contractual partnerships that are win-win in changing times, not just for recycling but all solid waste services.

This guide serves as a companion to the Municipal Contracting Templates at:

gov/lists/solid-waste-management-contracts-contracting. Together these information for municipalities to understand critical issues and to secure equitable recycling services.

Used in this document is for general guidance only. It is not designed to be a substitute procurement or contract negotiations. Public entities should always consult with legal, and legal advisors with respect to a procurement, contract, issue, or problem.

Contract Process: What to Know... What to Do...

Community Objectives and Recycling Service Needs

Community needs within their program is critical. The following are examples of how to define a community's objectives and needs:

Who is served? Residents only? Municipal buildings? Schools? Businesses? This is a critical question to define your scope of services as cost impacts can be significant if not clearly defined in the contract document and/or contract.

What materials and what types of materials will be collected?

What collection methods and containers are needed (manual, automated, carts, bags, compactors, etc.)?

- ✓ What is the frequency of services (weekly, biweekly)?
- ✓ Who will provide the curbside containers (if the contractor, then municipality should own them after the contract)?
- ✓ Who will provide the dumpsters, roll-offs, and/or compactors (if applicable)?

Processing

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
MUNICIPAL CONTRACTING TEMPLATE:
PROCESSING RECYCLABLES

Market Value (AMV) Calculation Worksheet

Municipalities should enter sample commodity index prices and percent composition of their recyclables for the beginning of the contract. The actual AMV is calculated for each month during the contract. The AMV for each material = Index Value x Percent. The Total AMV is the sum of the AMV column.

Market Value of Recyclables Worksheet

	Recyclingmarkets.net Index Material	Index* Value (\$/ton)	Percent (by weight)	AMV (\$/ton)
Paper	MP Mixed Paper (PS 54) (\$/ton, baled, picked up)			
Paper, Magazines & Catalogs	SRPN Sorted Residential Paper and News (PS 56) (\$/ton, baled, picked up)			
Cardboard	Old Corrugated Containers (PS11) (\$/ton, baled, picked up)			
	Glass 3 Mix (\$/ton del. as Recyclable or Disposable)			
	PET (Baled, c/lb., picked up)			

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
MUNICIPAL CONTRACTING TEMPLATE:
RESIDENTIAL CURBSIDE RECYCLING & TRASH COLLECTION

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
Recycling Audits & Composition Studies:
Protocols for Success

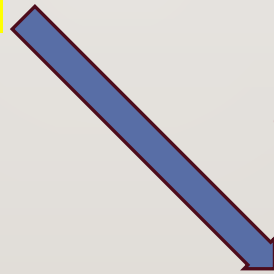
SUSTAINABLE MATERIALS RECOVERY PROGRAM: (SMRP) MUNICIPAL GRANT

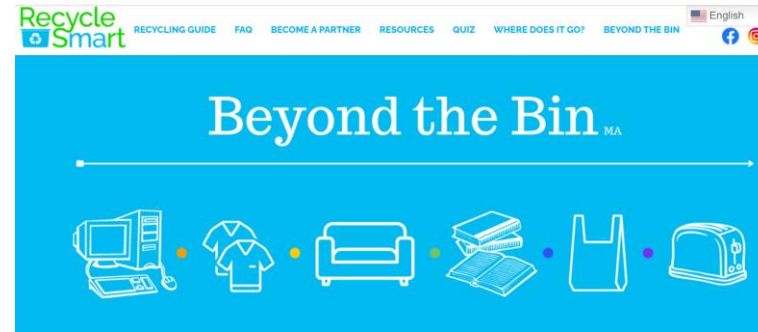
SMRP

- Drop-Off Equipment
- Food Waste Collection Carts
- PAYT Program Funds
- Recycling Dividends Program (RDP)
- Regional Small-Scale Initiatives
- Waste Reduction Grants
- Organics Capacity Grants
- HHW Permanent Facility Grants

RDP= Recycling Dividends Program

- **Best Practices Framework**
- **Munis earn points based on programs implemented**
- **Point values based on # of households served**
- **Grant funds MUST be spent on Approved Uses**





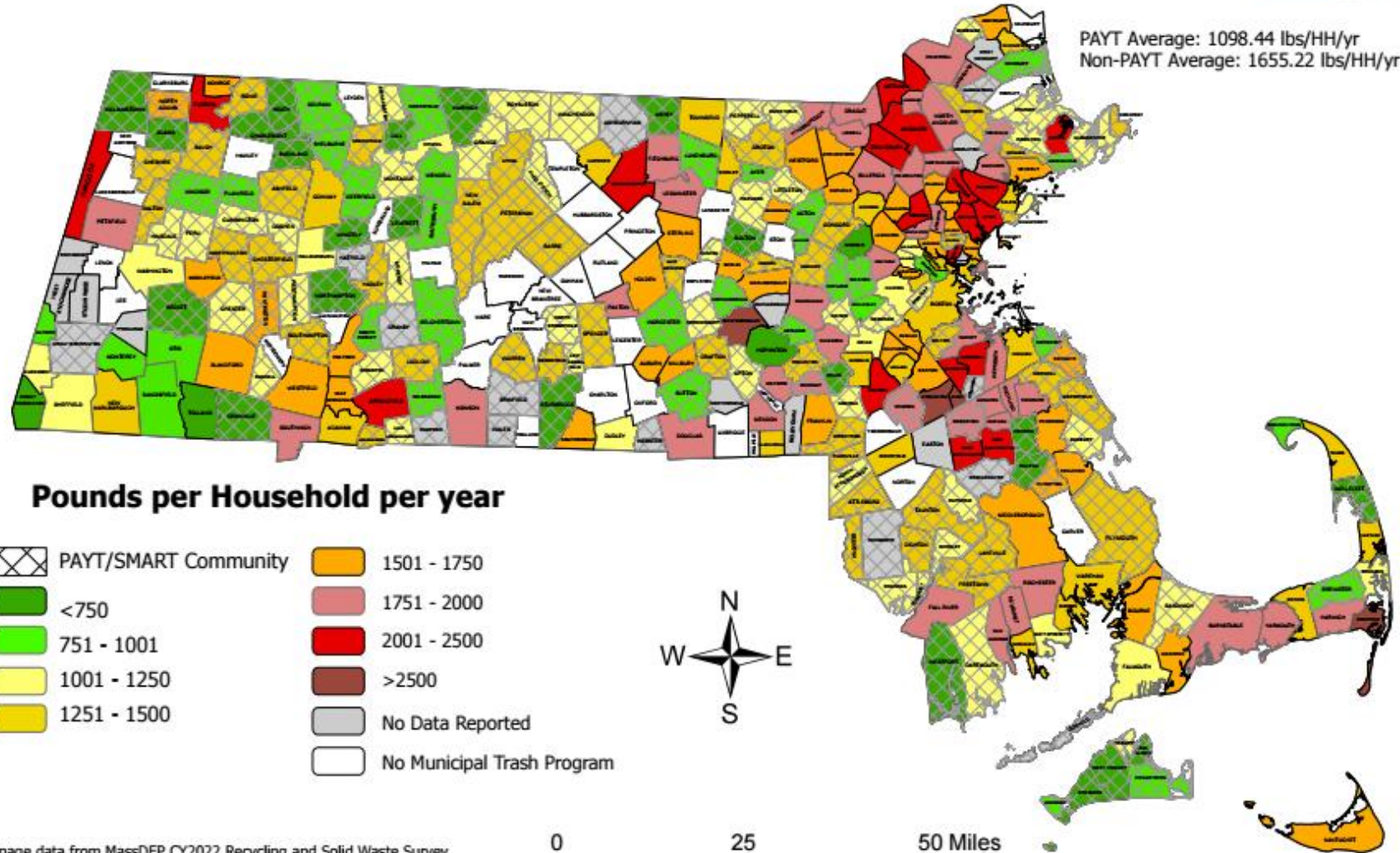
RECYCLES MARTMA & BEYOND THE BIN

MEASURING SUCCESS



How Much Trash Did We Throw Out in 2022?

PAYT Average: 1098.44 lbs/HH/yr
Non-PAYT Average: 1655.22 lbs/HH/yr



Tonnage data from MassDEP CY2022 Recycling and Solid Waste Survey
This data includes tonnage from municipal bulky waste collection
Municipal Boundaries provided by MassGIS
Map Prepared by MassDEP GIS Program, October, 2023

0 25 50 Miles

1: 1,150,000

CONTACT

Kathi Mirza

Branch Chief

Municipal Waste Reduction Programs

MassDEP

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**11:30 am Pacific Time
October 3, 2024**



Erin Girard

**Waste Diversion Outreach &
Technical Specialist**

**Colorado Circular Communities
Enterprise Fund**

**Plenary #2 – How States are Helping
Communities Move Toward Zero Waste**



National Zero Waste Conference 2024

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COLORADO

THE COLORADO CIRCULAR COMMUNITIES ENTERPRISE TECHNICAL ASSISTANCE SERVICE PROVIDER PROGRAM

How Colorado is helping communities move up the Zero Waste Ladder

Erin Girard, Colorado Department of Public Health and Environment
National Zero Waste Conference, October 3, 2024

Colorado Circular Communities Enterprise (C3)

- Statewide program aimed at increasing circularity in Colorado
- Established July 1, 2024 through legislative act, HB24-1449
- Combined two preexisting waste diversion programs:
 - The Recycling Resources Economic Opportunity (RREO) program + The Front Range Waste Diversion (FRWD) program
- Funded through landfill tipping fees
- Administered by the Colorado Department of Public Health and Environment and the C3 Board of Directors
- Enhances circularity through two primary mechanisms:

FUNDING

- Grants
- Rebates
- Loans
- Incentives

TECHNICAL ASSISTANCE *

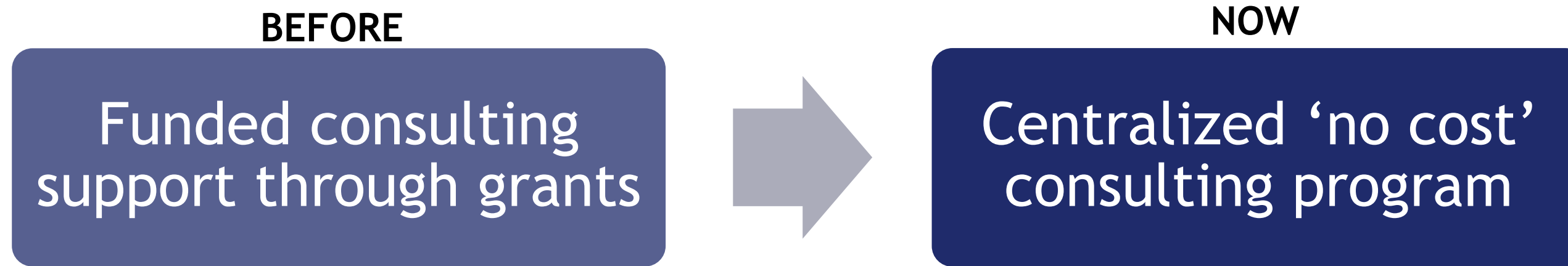
- Application assistance
- Workshops & webinars
- Resources
- No cost consulting

Technical Assistance Service Provider (TASP) Program Aim



Provide Colorado communities with direct no cost technical assistance on projects that reduce waste, increase recycling and composting, or support other circularity initiatives.

The Origin of TASP under FRWD



Benefits of the centralized 'no cost' consulting program

- Assistance to help communities determine next steps
- Expedite timelines and reduce burden on communities to run their own Request for Proposals (RFP)
- Standardize the cost for consulting
- Establish a pipeline of community projects from TASP to capital funding requests

TASP Timeline and Transition to C3

- August 2021 - RFP published and Burns & McDonnell selected for Phase 1: Program Development
 - Work performed Dec 2021 - June 2022
- August 2022 - RFP published and Resource Recycling Systems selected for Phase 2: Program Management with EcoCycle as main subcontractor
 - Contract executed in Nov 2022 and is ongoing
 - 12 communities provided consulting assistance to date
- July 2024 - FRWD repealed, all active FRWD contracts transitioned to C3
 - TASP program is expanded statewide

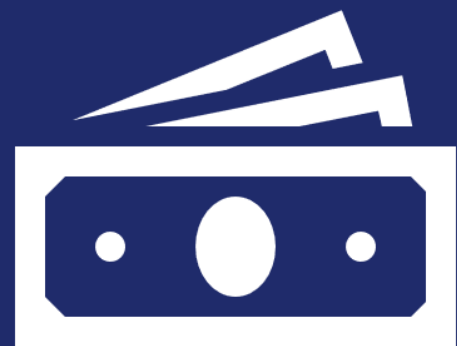


Eligibility



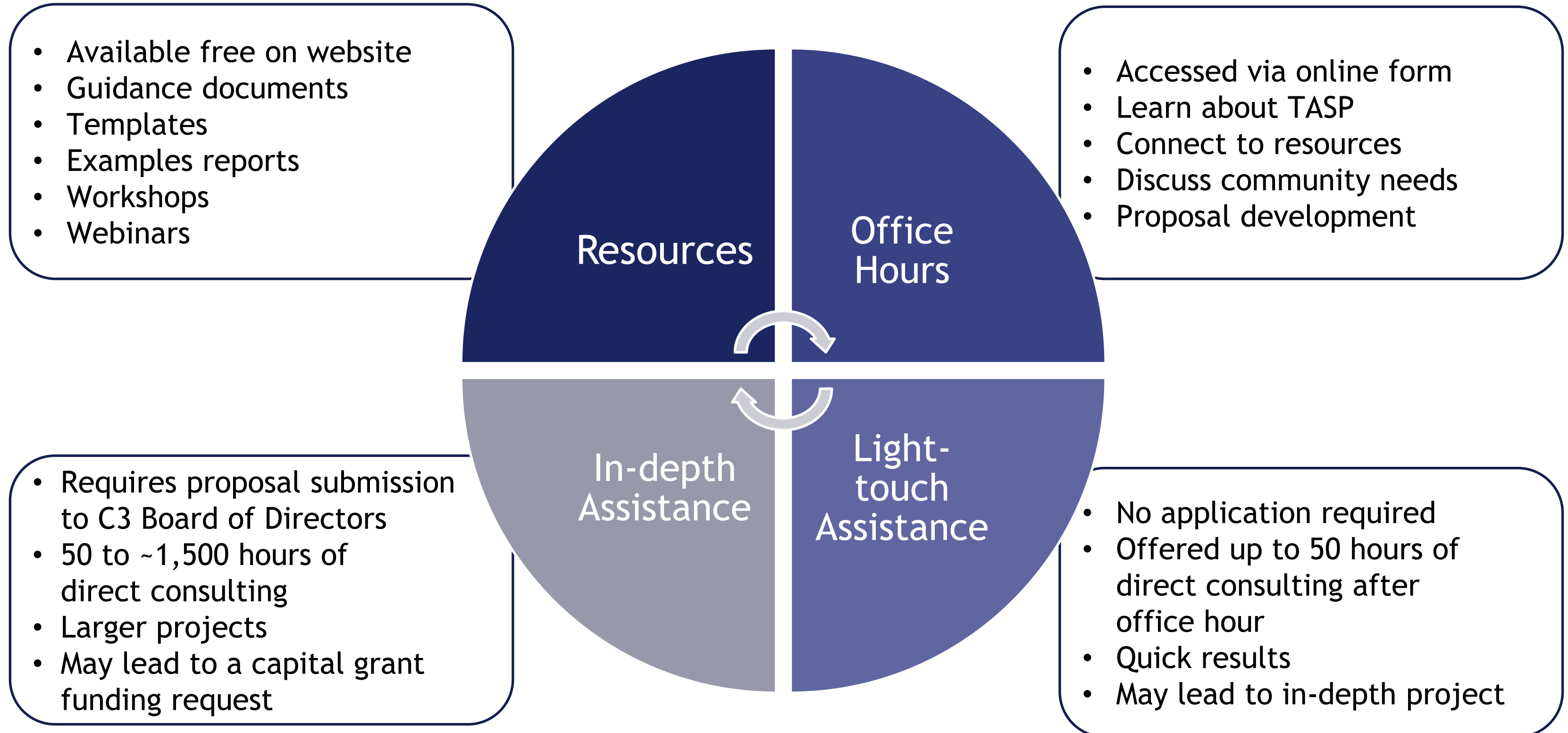
Towns, cities, counties (including unincorporated areas), public k-12 school districts, and tribes within the State of Colorado.

Funding



- No cost for communities to participate
- State contracts directly with the consultant
- Not a grant, TASP is technical assistance only
- Does *not* provide capital funding or funding for community staff

TASP Offerings







COLORADO

Thank you!

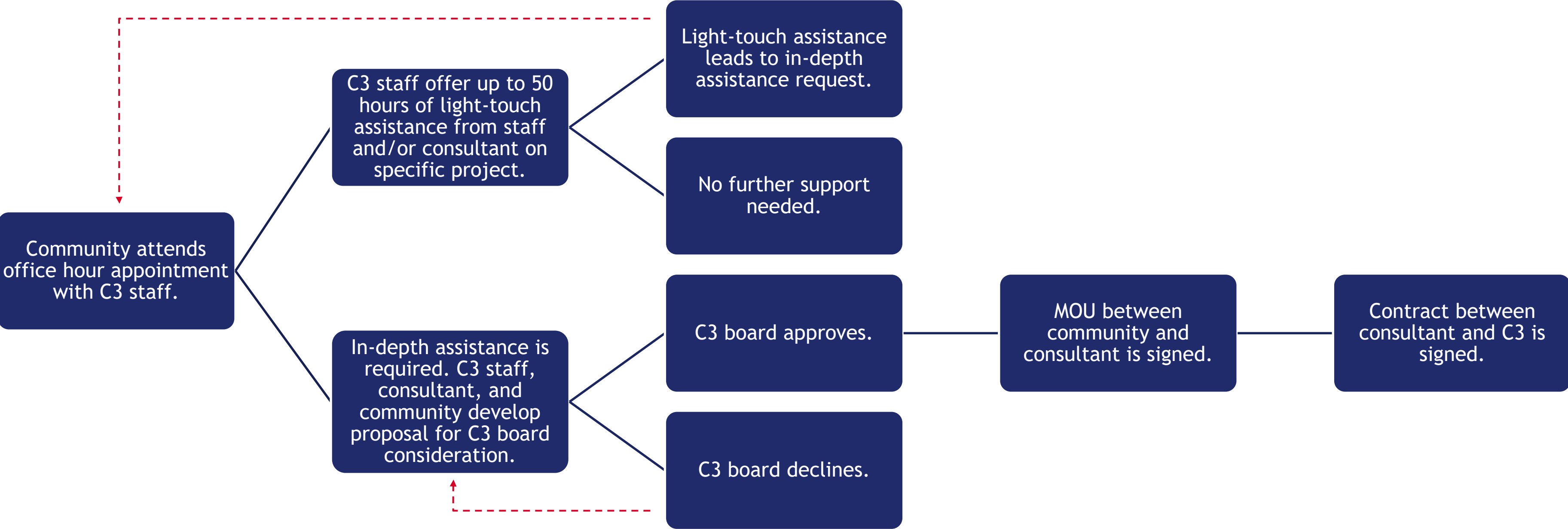
Website - cdphe.colorado.gov/c3

Email - erin.girard@state.co.us

LinkedIn - [linkedin.com/in/erin-girard](https://www.linkedin.com/in/erin-girard)

Bonus Slides

The Approval Process



TASP Projects Awarded to Date

Community	Project	Consultant Hours	Status
City of Arvada	Waste Diversion Action Plan	709	In Progress
Town of Bennett	Community composting feasibility study	66	Complete
City of Brighton	Contracted waste and recycling services feasibility study	315	Complete
City and County of Broomfield	Single hauler communications and engagement initiative	458	In Progress
City and County of Denver	Municipally owned compost facility feasibility study	1,407	In Progress
City of Fort Collins	C&D and composting infrastructure and policy analysis	1,132	In Progress
City of Fort Lupton	Contracted waste and recycling services feasibility study	334	In Progress
City of Lafayette	Universal recycling ordinance feasibility study	280	Complete
City of Pueblo	Recycling drop-off site efficiency evaluation and recommendations	124	Complete
South Metro Region	Regional waste services analysis	2,522	In Progress
Town of Superior	Organized organics collection request for proposal assessment	141	In Progress



TASP = Technical Assistance Service Provider program

Case Study: City and County of Broomfield



- 2021 - Awarded a grant during the FRWD RFA #1 to hire a consultant to complete their Zero Waste Plan
 - *Note: This was before the Technical Assistance Service Provider program was established*
- 2022 - Zero Waste Plan Completed
 - Plan identified single hauler contract as a top zero waste initiative for Broomfield
- 2023 - Broomfield published a single hauler request for proposal
- 2024 - Broomfield entered into a contract with their identified hauler
- 2024 - Broomfield applied for and received TASP assistance for communications and engagement planning and materials for the single hauler rollout to commence in 2025. Work is ongoing.

**11:30 am Pacific Time
October 3, 2024**



Jeremy Drake

Principal

Strategy Zero Waste Solutions

**Plenary #2 – How States are Helping
Communities Move Toward Zero Waste**

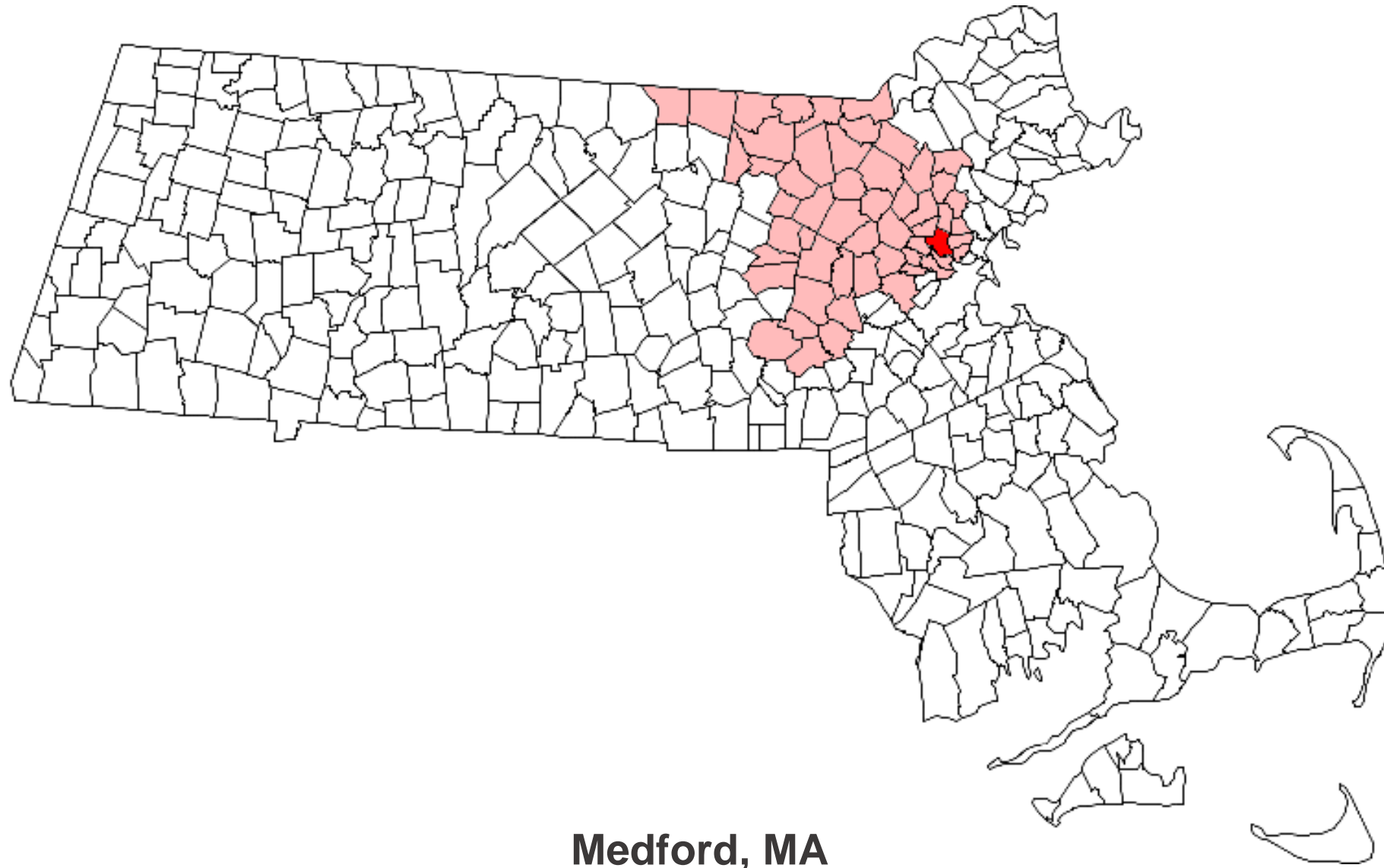


National Zero Waste Conference 2024

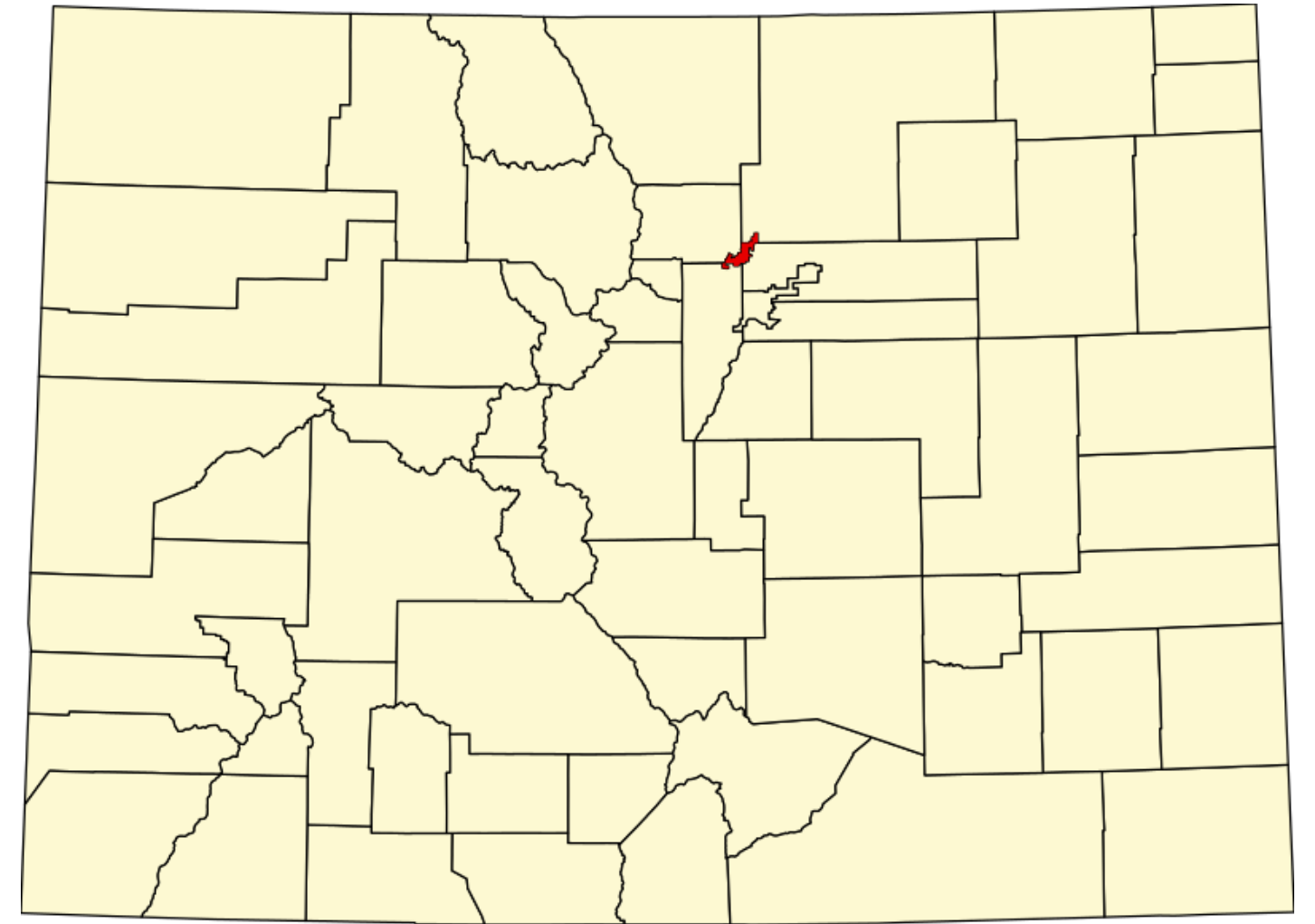
Day 2 • Zero Waste Communities

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Medford, MA

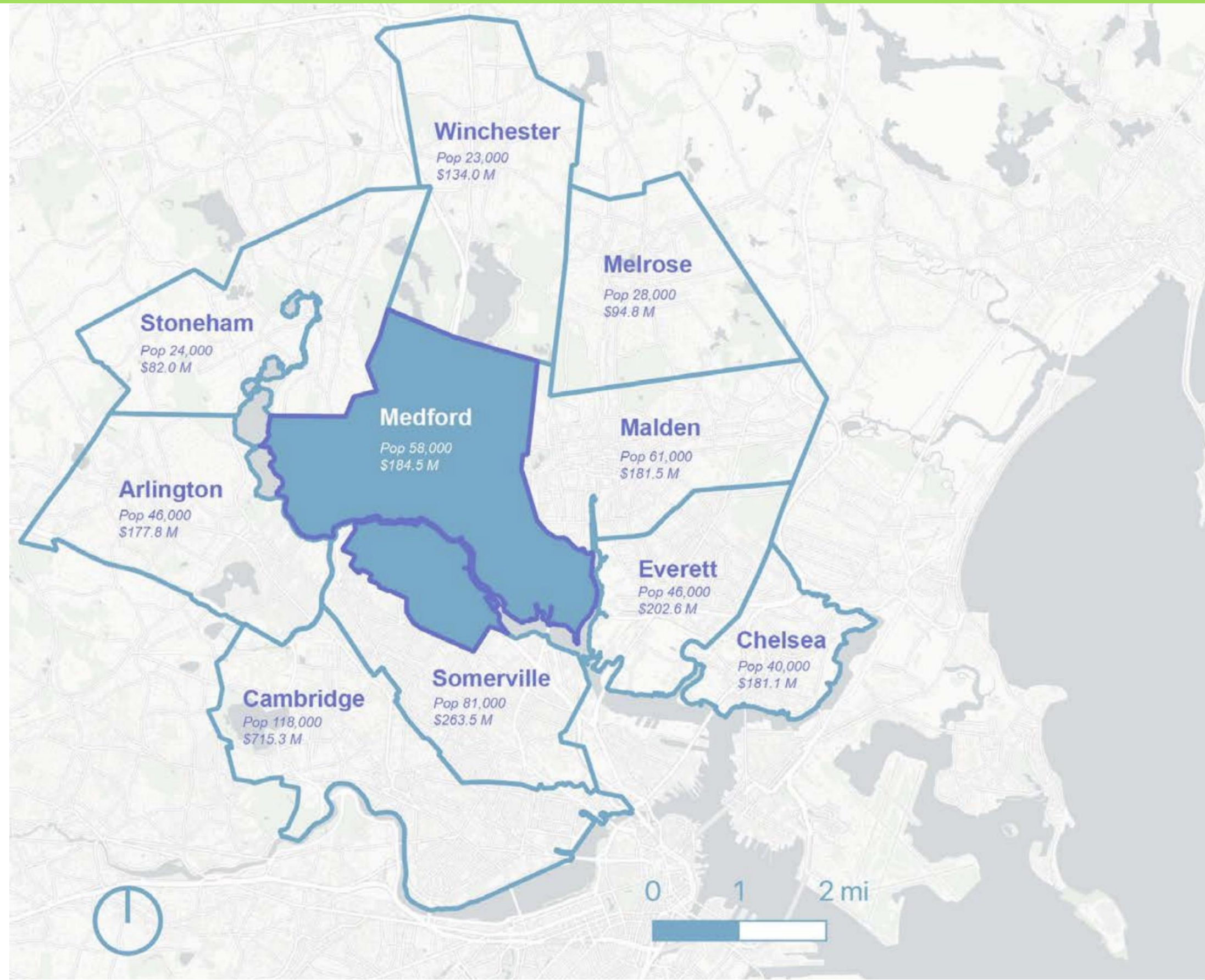


Broomfield, CO

Leveraging Statewide Programs: Two Community Cases

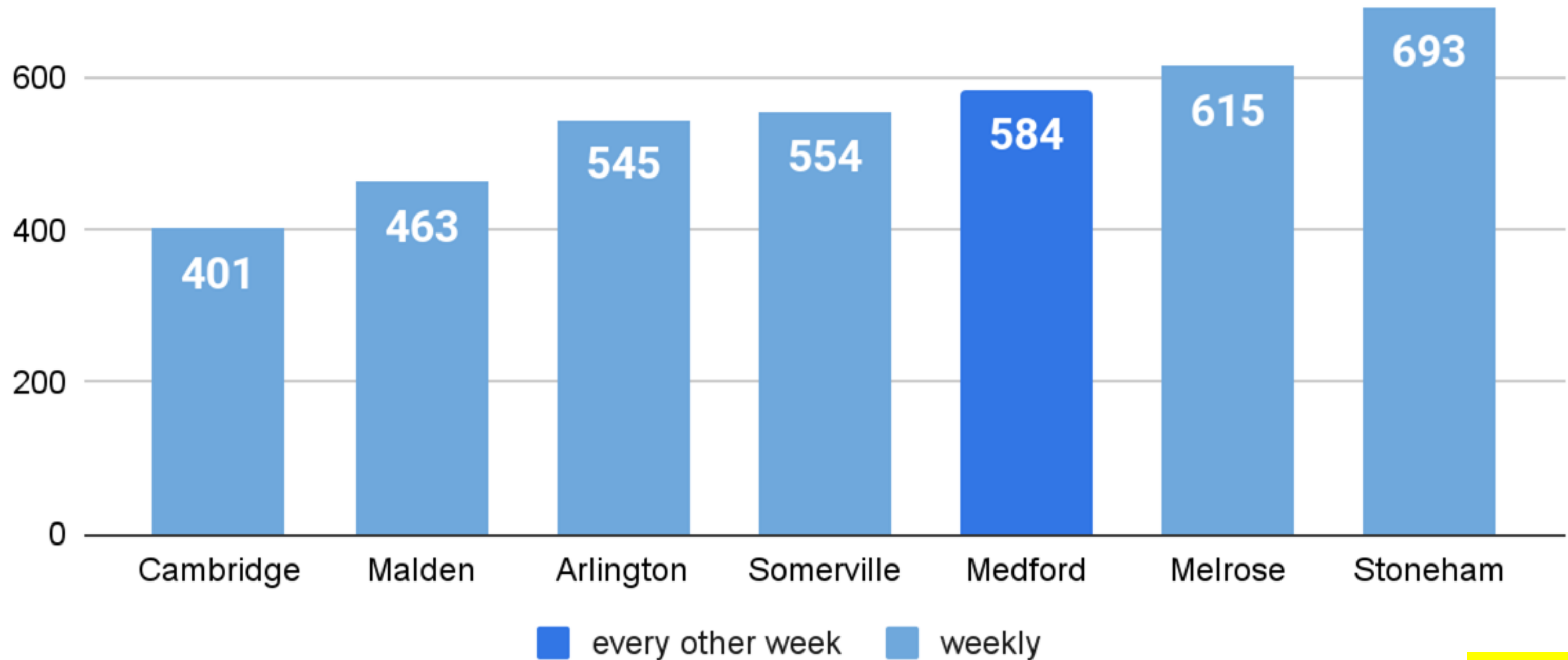
Thursday, October 3, 2024

MEDFORD, MA



MASSDEP DATA

How much does Medford recycle?



MASSDEP POLICIES

Commercial Food Scraps Ban



MUNICIPAL ASSISTANCE COORDINATORS

- **Credibility**
- **Accessibility**
- **Guidance**
- **Expertise**

PAY AS YOU THROW (PAYT)

Reducing Waste
and Costs for the
City of Medford



PAY AS YOU THROW

because waste is just a resource out of place

Logo of sustainability.yale.edu

Julia Greene

MassDEP Municipal Assistance Coordinator

Wednesday, November 9, 2022

MASSDEP RESOURCES

- **Case Studies**
- **Contracting**
- **Grants**
- **Programs**

MASSDEP CASE STUDIES

Hamilton, MA Case Study:

- Every Other Week trash collection
 - one 35-gallon cart
 - Specified overflow bags
- Weekly single-stream recycling
- Weekly food scraps
 - 13-gallon wheeled cart with locking lid



MASSDEP CONTRACTING

- Templates
- Contract Bank
- Best Practices Working Group

MassDEP Recycling Contract Guidance & Templates



[Best Practices Checklist for Successful Recycling Procurements & Contracts](#)

(English, PDF 430.23 KB)



[MassDEP Solid Waste Contracting Seminar Presentation by KP Law, October 2022](#)

(English, PDF 1.36 MB)



[Collection Contract Template](#) (English, PDF 542.43 KB)

MASSDEP GRANTS

- Compost Cart Grant
- Pay As You Throw Technical Assistance Grant

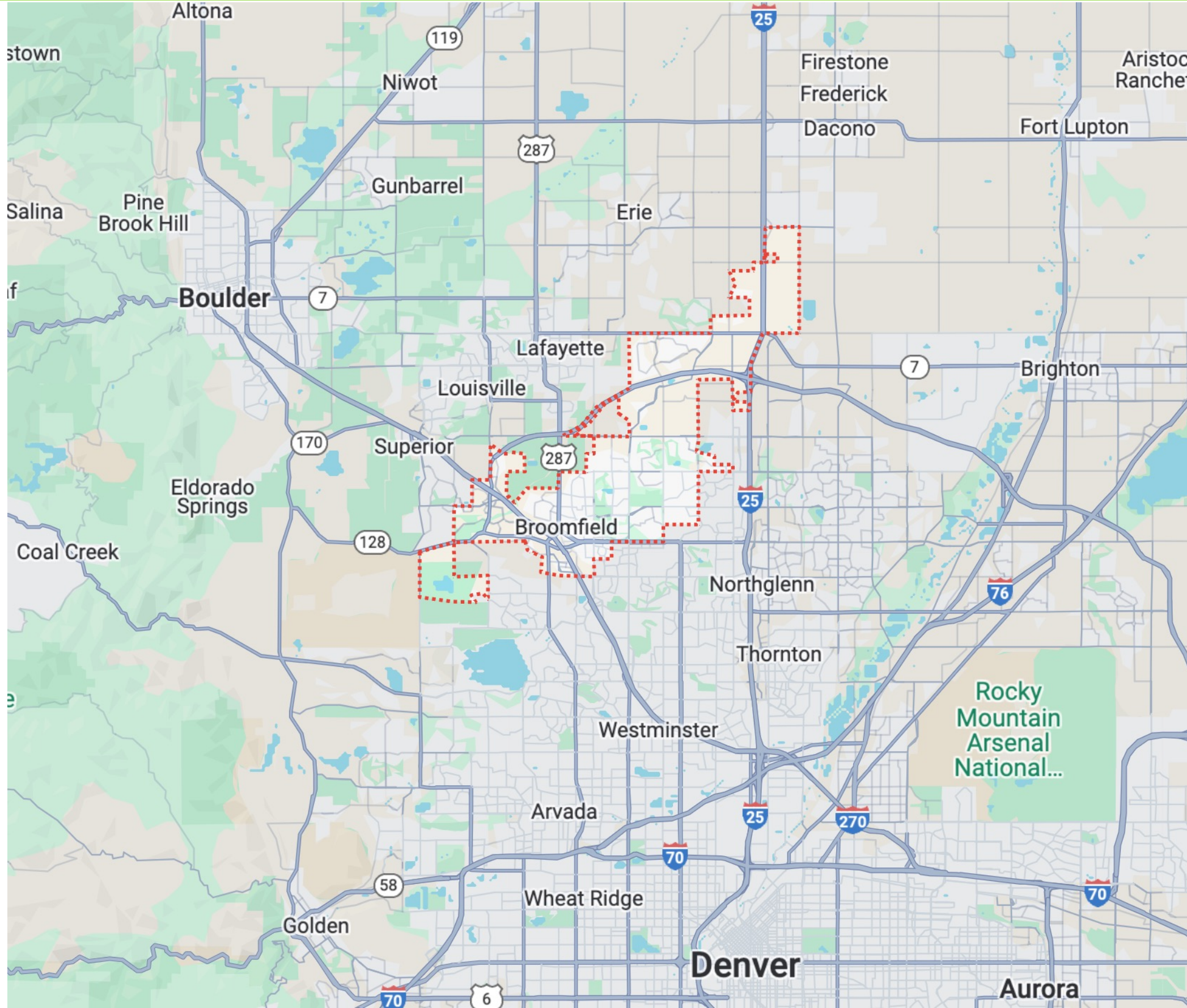


MASSDEP PROGRAMS

- Recycling Dividends Program
- RecyclingWorks



BROOMFIELD, CO



FRWD

- Funding

ZERO WASTE ACTION PLAN

Final Draft - Summer 2022



If you're not for Zero Waste...

How much waste are you for?



INSIGHTS FOR OTHER STATE PROGRAMS

1. Support for local government staff
2. Access to resources and best practices
3. Compile regional knowledge and data
4. Funding for planning and implementation
5. Help move the needle toward Zero Waste



THANK YOU

Jeremy Drake

Strategy Zero Waste Solutions

jeremy@strategyzerowaste.com

