



# 2015-2025 Solid Waste & Materials Management Plan

## AHMP Meeting

Larry Christley, Program Manager  
October 18, 2018



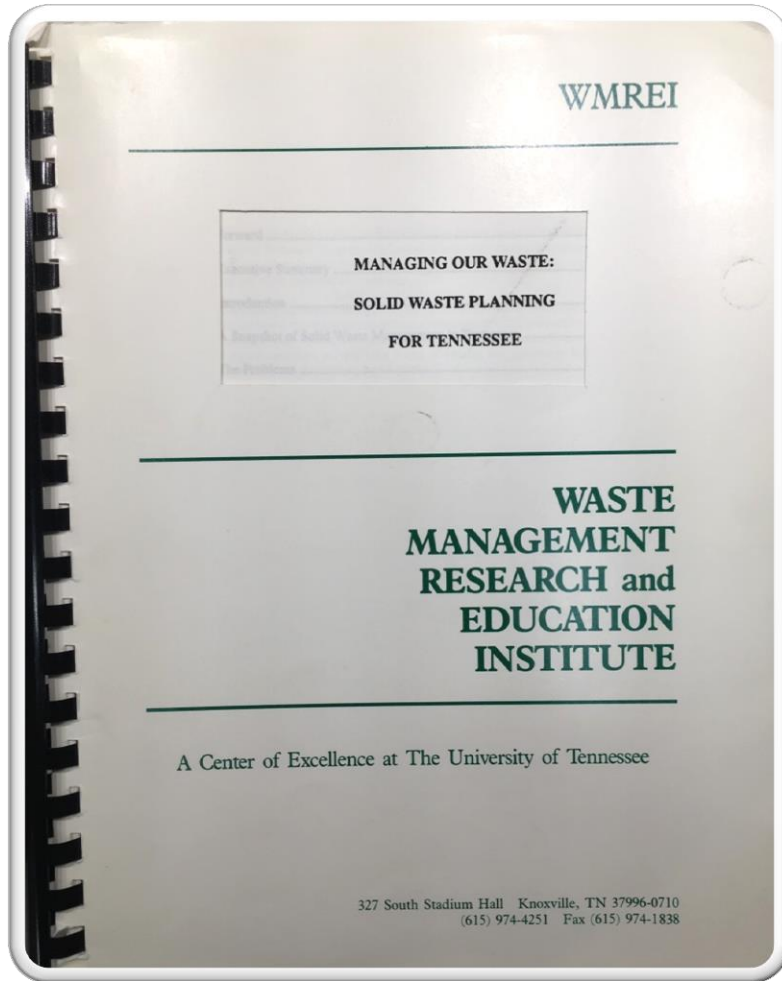
# Overview

- Planning Process
- Plan Construction
- Plan Implementation
- Plan Update
- Plan Reporting
- Questions



# Planning Process

# Planning Process



- Started Procurement Process in 2012
- Current Plan was 20 years old
- Identified the need for:
  - Actionable Plan
  - Objective
  - New Goal
  - Comprehensive
  - Integrated Systems
  - Disaster Management
  - Stakeholder Input

# Planning Process

- Survey of 1991 Plan
- Meeting with TDEC
- Meetings with Stakeholders and Groups
  - 4 Initial Stage - Content
  - 4 Follow up - Prioritizing
  - 3 Draft Presentations
  - 3 Surveys (General, ICI, & Government)
  - Webinars
- Went Before the UST-SWDC Board at least three times for Advice and Review



# Planning Process



- Diverse Group of Stakeholders
  - County and City Solid Waste and Public Works
  - Recycling Interests
  - Landfill and Hauling Interests
  - Environmental Advocates
  - Industries
  - Citizens
  - National Groups

# Planning Process

- Website:

<https://www.tn.gov/environment/program-areas/solid-waste/2015-2025-solid-waste-management-plan.html>

## 2015 - 2025 Solid Waste and Materials Management Plan

### Objective 1: Updating Goals and Measuring Progress

#### Description of Objective

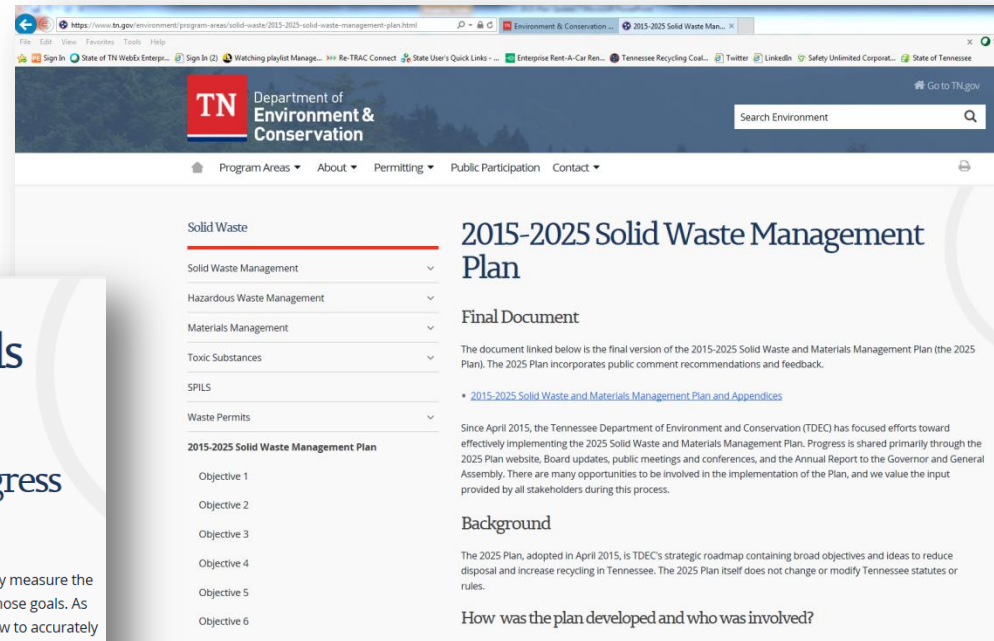
The purpose of this objective is to establish more robust solid waste management goals, to more accurately measure the disposition of municipal solid waste (MSW) in Tennessee, and to better assess progress toward achieving those goals. As part of this objective TDEC will also develop and conduct training to help local governments understand how to accurately measure and report.

#### Update – TDEC to postpone goal update

Over the past year, TDEC has focused efforts toward effectively implementing the 2025 Solid Waste and Materials Management Plan and specifically toward updating the state diversion goal. At this time, the Objective 1 working group has recommended postponing the goal update and focusing on consistent reporting and data accuracy.

#### External Working Group

The purpose of the external working group is to provide an opportunity for TDEC to collaborate with local governments on effective and efficient implementation of the 2025 Plan. Representatives include TDEC's Division of Solid Waste Management and Office of Policy and Planning as well as local governments representing diverse solid waste and





**Plan Construction**



# Plan Construction

## Triple A and an I

- Actionable
  - Objectives
  - Strategies
  - Tactics
  - Action Steps
- Achievable
- Applicable
- Integrated



# Plan Construction

- **Objective 1** – Update Goals and Measure Progress
- **Objective 2** – Increase Recycling Access and Participation
- **Objective 3** – Promote Material and End Use in Tennessee
- **Objective 4** – Increase Diversion of Organics
- **Objective 5** – Support New Waste Reduction and Recycling Technologies

# Plan Construction

- **Objective 6** – Expand and Focus Education and Outreach
- **Objective 7** – Ensure Sufficient and Environmentally Sound Disposal
- **Objective 8** – Develop Sustainable Funding
- **Appendix C** – Disaster Debris Management

# Plan Construction

- S.M.A.R.T. in Definition
- Legacy Information
- Historical Data
- Appendices
- Tiered Matrix of Infrastructure



# Plan Construction

Tier 4 for Urban Counties									
	Population Served	Collection Systems	Disposal Systems	Waste Reduction	Problem Waste Management	Education/Awareness	Staff	Composting/Mulching	Economic and Business
Targeted - Minimum Level of Solid Waste/ Materials Management	<ul style="list-style-type: none"> <li>Large to very large suburban and urban areas</li> <li>Population over 100,001</li> </ul>	<ul style="list-style-type: none"> <li>Mandatory, countywide curbside collection service for MSW</li> <li>Curbside collection of recyclable materials at no extra cost to residents in more densely populated areas</li> </ul>	<ul style="list-style-type: none"> <li>At least one Class I (MSW) disposal facility available to the county either locally or regionally</li> <li>At least one Class III/IV disposal facility available to the county either locally or regional</li> <li>Alternative technologies explored</li> </ul>	<ul style="list-style-type: none"> <li>Full spectrum of fiber, metals, multiple types of plastics, and glass recycling available</li> <li>Some communities have financial incentives to minimize waste (PAYT, Rewards)</li> <li>Non-traditional materials recycled, e.g., textiles, pallets, mattresses, etc.</li> <li>Some communities implement pro-recycling ordinances</li> </ul>	<ul style="list-style-type: none"> <li>At least one and preferably 2 mobile HHW collection events per year</li> <li>Work with the state to determine cost effectiveness of local permanent HHW facility</li> <li>Comprehensive BOPAE management program operated by County.</li> <li>County may manage more difficult problem wastes through an advanced problem waste management system</li> </ul>	<ul style="list-style-type: none"> <li>County and municipalities provide a comprehensive K-12 and adult education/out-reach program</li> <li>County and/or municipalities fully utilize multi and social media outlets to deliver message directly to targeted audiences</li> </ul>	<ul style="list-style-type: none"> <li>A full-time solid waste/public works director oversees materials management department</li> <li>One or more full time recycling coordinator(s) employed</li> </ul>	<ul style="list-style-type: none"> <li>At least one composting and mulching operation</li> <li>County and municipalities promote back yard composting</li> <li>At least one pilot or demonstration food residuals compost project in County</li> </ul>	<ul style="list-style-type: none"> <li>Full cost accounting approach through a county enterprise fund for all materials management services</li> <li>Coordination/ communication between municipal and county staff, shared programs where mutually beneficial</li> <li>Actively seek opportunities for public/ private partnership</li> <li>County and larger municipalities have some green purchasing contracts/guidelines in place</li> </ul>



Plan Update

# Plan Update

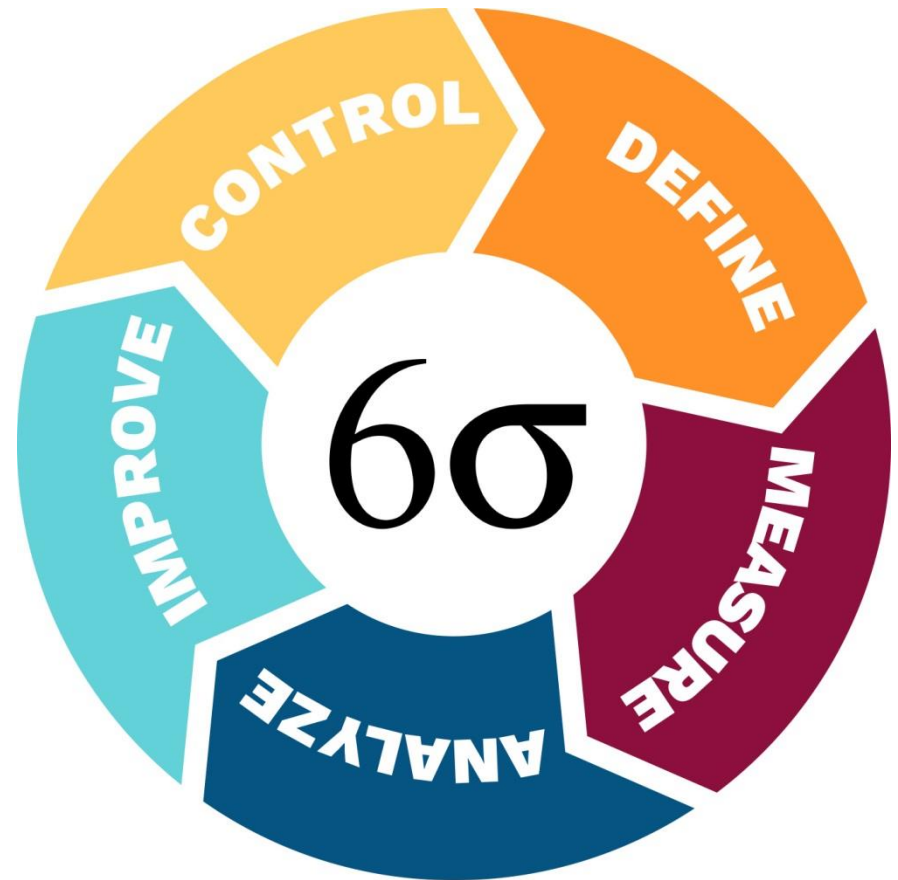
- Progress Made:
  - On All Eight Objectives
  - 32 of 34 Strategies
  - Great Number of Tactics
  - Disaster Debris Plan Appendix



# Plan Update

## Major Milestones or Projects:

- Objective 1-
  - Working Group
  - System Review
  - Improved Data Quality
  - Identifying and Using Six Sigma
  - Measurement Matters Efforts





# Plan Update

## Major Milestones or Projects:

- Objective 2-
  - Grant Management System
  - Number of Grant Programs
  - TSRLP
  - HHW-CF
  - HHW-ME & Infrastructure
  - TSP – Bear Savers
  - Top 5 Initiatives



# Plan Update

## Major Milestones or Projects:

- Objective 3-
  - Hub and Spoke Initiative
  - TSLRP
  - Top 5 Initiative/MOP Project
  - TN Material Marketplace
  - Partnership Development
    - Recycling Partnership
    - Coca-Cola Foundation
    - West Rock
    - SERDC
    - Ameripen
    - Carton Council



# Plan Update

## Major Milestones or Projects:

- Objective 4 –
  - Organics Management Grants
  - Get Food SMART Tennessee
  - Workshops
  - Web Resources
  - TSP Composting Operations
  - Just Eat It Movie
  - Organics Fair



# Plan Update

## Major Milestones or Projects:

- Objective 5 –
  - Telemetry for Used Oil Collection Systems
  - Tennessee Materials Marketplace
  - Annual Progress Reports
  - Grants Management System
  - Anaerobic Digestion, Gasification Systems



# Plan Update

## Major Milestones or Projects:

- Objective 6 –
  - Statewide Branding Campaign
  - Workshops – The Recycling Partnership
  - Common Suite of Materials
  - Tennessee Training Academy
  - Education and Outreach Grants
  - Urban Green Lab Sustainable Classroom



# Plan Update

## Major Milestones or Projects:

- Objective 7 –
  - New Composting Permitting and Operation Rule Passed
  - New Solid Waste Rule Making in Progress
  - OPSP Will Review Program



# Plan Update

## Major Milestones or Projects:

- Objective 8 –
  - Review made
  - Fund Balance Draw Down
  - Additional Grants
  - Better Targeted Funding



# Plan Update

## Major Milestones or Projects:

- Disaster Debris Plans –
  - Identified Counties Without Disaster Debris Plans
  - Prioritized Counties That Indicated No Plan
  - Plans Are Due March 31, 2019
  - Dedicated Staff and Development District Assistance





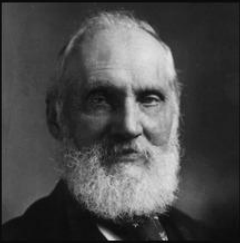


# Plan Reporting

# Plan Reporting

- Annual Report to the Governor and Assembly
- Division of Solid Waste Management Website
- UST-SWDC Board Meetings
- Conferences

Lord Kelvin



I often say that when you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot measure it, when you cannot express it in numbers, your knowledge is of a meagre and unsatisfactory kind.

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Questions?

# Contact Information

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**THANK YOU**