



# Rethinking Waste: SBWMA Workshop

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# Policy Drivers

## AB 939

- ▶ 50% diversion requirement on jurisdictions

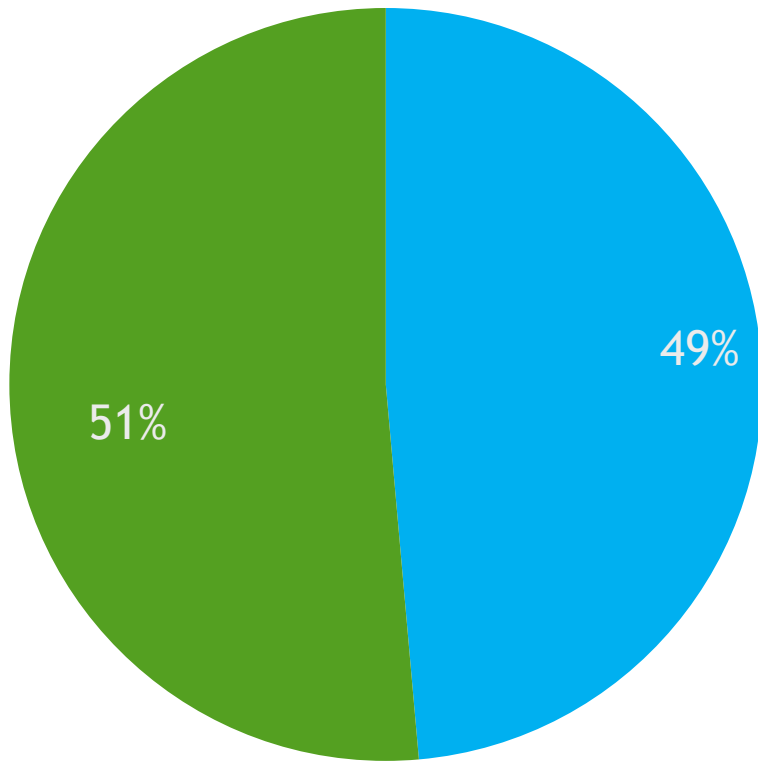
## AB 341

- ▶ 75% reduction, recycling, composting statewide goal by 2020
- ▶ Not transformation or disposal-related activities, etc.
- ▶ Doesn't change AB 939 mandate on jurisdictions or how CalRecycle evaluates compliance

## AB 32

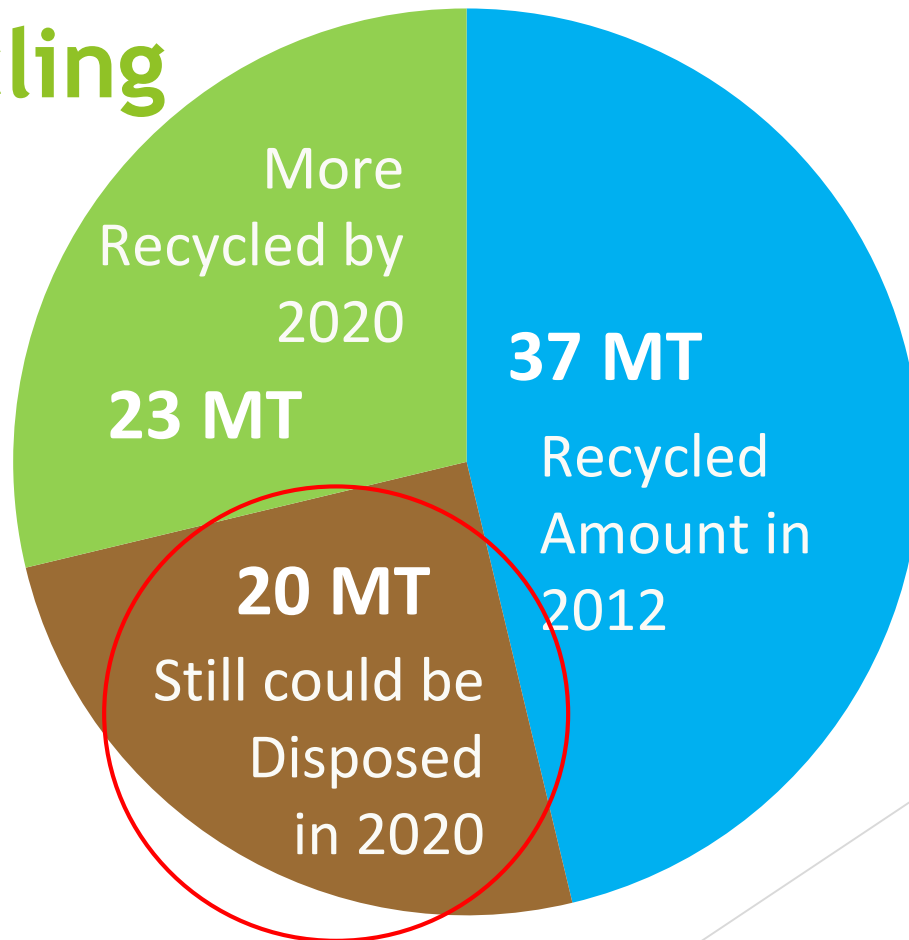
- ▶ ARB Scoping Plan - Waste Sector
- ▶ Reduce GHGs to < 1990 levels

# Where Are We Now?



- Currently Recycled (PPD)
- Currently Disposal-Related Activity (PPD)

# Projected 2020 tonnages to reach 75% recycling



# What Will 75% Take?

- ▶ Moving > 20 million tons/year out of landfills
- ▶ 1/3 or more organic, plus many traditional recyclables
- ▶ Either overseas or other states OR more infrastructure here in California
  - ▶ CalRecycle preference to handle waste in CA
- ▶ 100s of new or expanded facilities

# What Else 75% Can Achieve?

- ▶ Jobs if in-state
- ▶ GHG reductions
- ▶ Biofuel/bioenergy production

# What Counts?

	AB 939* Diversion Rate	AB 341* Recycling Rate
<b>+</b>	<u>Diversion</u> Source Reduction, Recycling, Composting, ADC, AIC, Beneficial Reuse, Transformation	<u>Recycling</u> Source Reduction, Recycling, Composting (including Anaerobic Digestion)
<b>—</b>	<u>Disposal</u> Landfilled, Exported Disposal, Excess Transformation	<u>Disposal-Related Landfilled</u> , Exported Disposal, Transformation, ADC, AIC, Beneficial Reuse, Waste Derived Fuel

\*Biomass not included in base - but future increases to biomass reduce disposal so it *de facto* falls into Diversion or Recycling

# How Will CalRecycle Measure?

- Modify current system used to measure 50% statewide
- Measure based on per resident activity
  - Allows for population growth
  - No multiplier for economic growth
- Simple and practical
  - Measures disposal but is quantifiable
- No additional reporting burdens

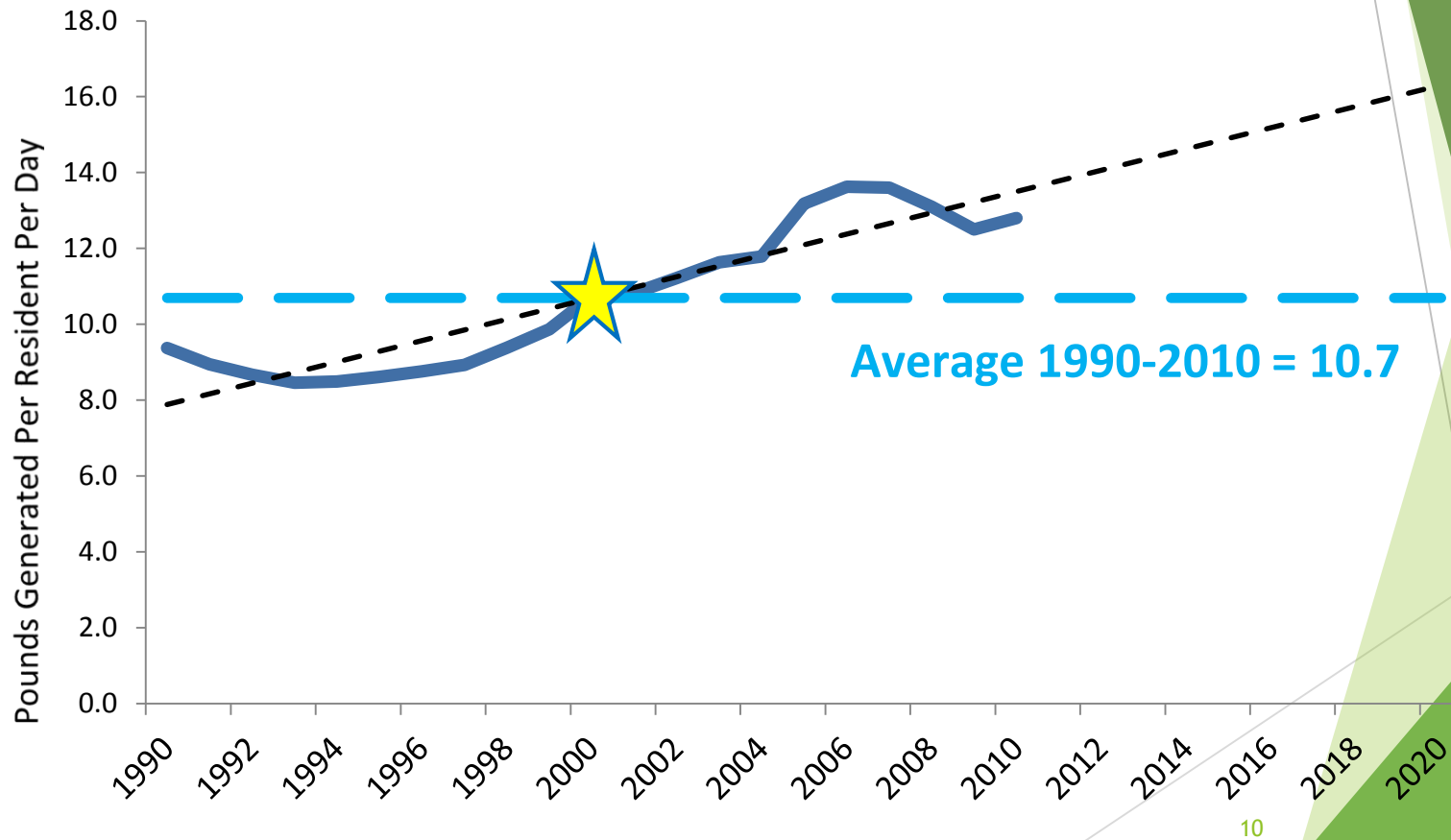


# Three Aspects of Measurement

Recycling + Disposal Related = 100%  
Generation

- The BASE
- The TARGET
- The Activities to TRACK

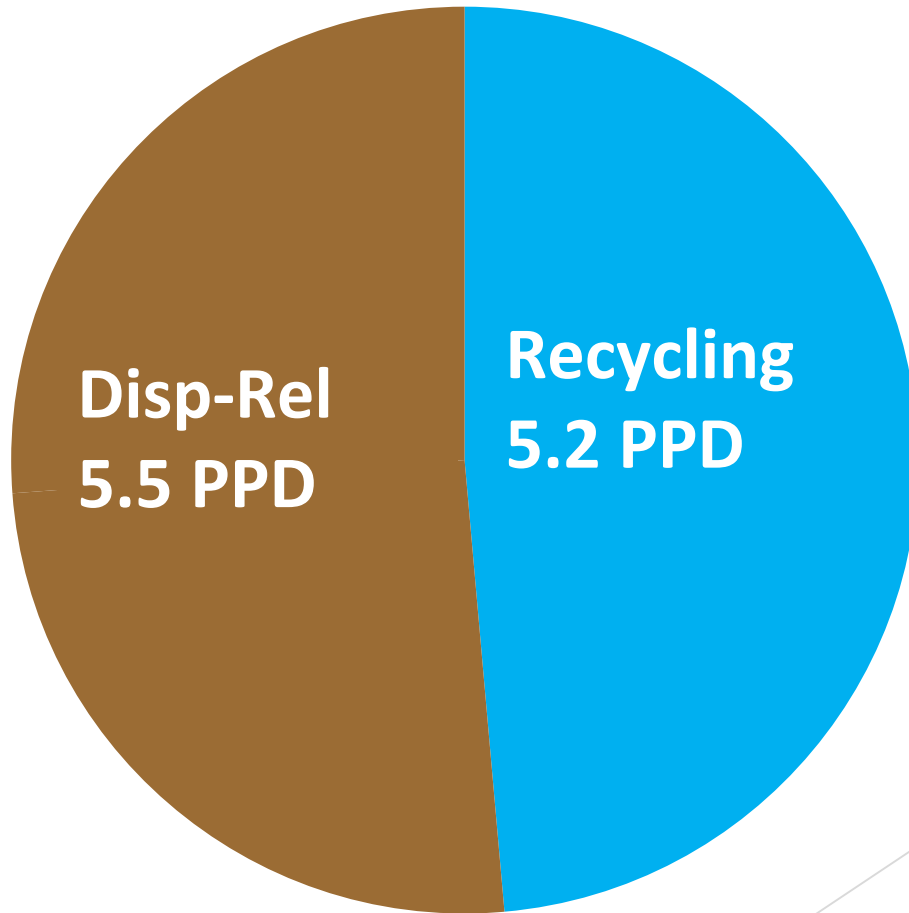
# The Base



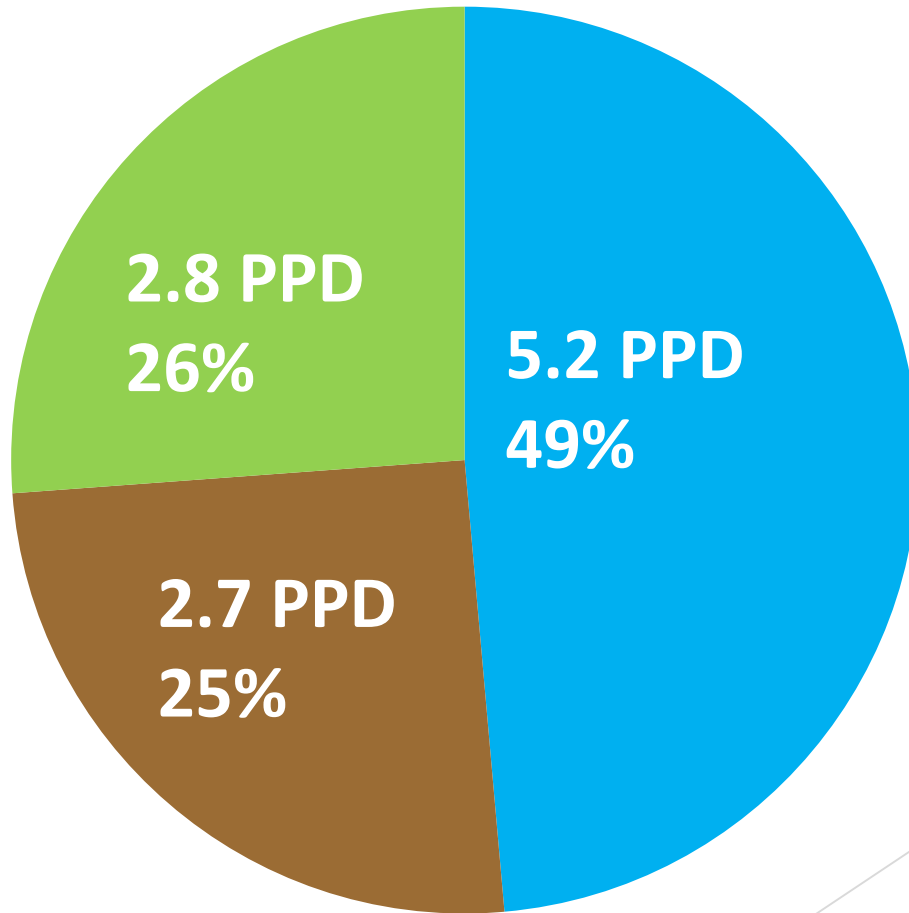
# The Target

- Given 10.7 PPD Generation:
  - At least 75% or 8.0 PPD must be Recycled
  - Not more than 25% or 2.7 PPD to Disposal-Related activities

# 2010 Per Capita Status



# 2020 Per Capita Targets



# AB 341 Interim Report

- ▶ Move organics out of landfills
- ▶ BCRP reform
- ▶ Expand recycling manufacturing infrastructure
- ▶ New models for state and local funding
- ▶ Extended Producer Responsibility
- ▶ Increase state procurement

# Connections to AB 32

- ▶ ARB Scoping Plan Update 2014
- ▶ Waste Management Sector identifies activities to achieve significant GHG reductions
- ▶ Potential for 20-30 MMT GHG reductions
- ▶ Activities support AB 341
- ▶ Measure via CalRecycle waste characterization studies 2014/15 and ~2018/19

# Scoping Plan Implementation

- ▶ Funding/incentives for infrastructure
  - ▶ e.g., Greenhouse Gas Reduction Program \$\$
- ▶ Regulatory/statutory provisions
  - ▶ e.g., direct regs on organics in landfills?
- ▶ Emission reduction factors
- ▶ Permitting
- ▶ Procurement



# Why Organics?

- ▶ 30% of total disposal compostable/digestible
- ▶ No way to 75% without it
- ▶ Scoping Plan identifies organics as key player to help meet GHG goals
- ▶ If divert ½ → 3-4 MMTCO<sub>2</sub>e reduction/year



# Sticks

**Reduce organics disposal through:**

- **Legislation:** AB 1826 (statutorily mandated commercial recycling of organics) + AB 1594  
AND/OR
- **Regulation:** Air Resources Board could implement through direct regulations

# AB 1826

- ▶ April 2016 - Businesses generating 8 CY organics/week required to have organic waste recycling
  - ▶ Jan 2017 - 4 CY/week of organics
  - ▶ Jan 2019 - 4 CY/week of solid waste
  - ▶ 2020 trigger: CalRecycle can reduce to 2 CY of waste if statewide organics disposal not cut in 1/2
- ▶ Jan 2016 - Jurisdictions required to implement program to divert organics generated by businesses
- ▶ CalRecycle to review jurisdictions' programs
- ▶ CalRecycle to recommend actions re: state's organic recycling infrastructure

# AB 1826 Jurisdiction Requirements

- ▶ Jan 2016 - Implement program
  - ▶ Outreach, education, monitoring
  - ▶ Organics recycling program
  - ▶ May include mandatory recycling via policy or ordinance, franchise agreement or contract, or requiring material to go through MRF
  - ▶ Identify multiple parameters and barriers; plan to address barriers under control of jurisdiction
  - ▶ Rural exemption process
- ▶ Aug 2017 - begin reporting in Annual Reports on education/outreach/monitoring
  - ▶ Including # of regulated businesses that generate organics and, if available, # recycling organics

# Guidance on 1826

- ▶ Guidance will be developed, just as for MCR
- ▶ Oct/Nov 2014 - initial guidance on 1826 provisions + solicitation of questions from stakeholders
- ▶ Jan 2015 - post responses to “easy” questions; announce workshops to discuss other questions/issues
- ▶ Develop models of options re: policies, program variations, etc.
- ▶ Develop revised CIWMP Enforcement Policy
- ▶ Develop guidance on what will be expected in EARs
- ▶ Provide tools for identifying organics generators
- ▶ Develop rural exemption process
- ▶ Outreach to stakeholders, industry associations
- ▶ Spring 2015 - workshops
- ▶ May/June 2015 - finalize guidance (6 months before initial implementation date)

# AB 1594

- ▶ 2020: Green material ADC ≠ recycling
  - ▶ Will be considered disposal
  - ▶ Exempt from tipping fee
- ▶ 2018: In EAR, each jurisdiction to provide info on plans to divert this material
- ▶ 2020: If jurisdiction fails to meet 50% as result, then in EAR has to ID and address barriers to recycling green material
- ▶ CalRecycle required to update Legislature on status of IWMA fund

# AB 1594

- ▶ Potential impact on jurisdiction compliance with AB 939?
  - ▶ Will ADC not counting as recycling result in jurisdictions failing to meet AB 939 goals and being placed on compliance orders?
- ▶ 308 used green waste ADC in 2012
  - ▶ Only 9 would fail to meet 50% per-capita disposal target as a result
- ▶ AB 939 review process
  - ▶ Per-capita disposal number is indicator but not determinative of compliance
  - ▶ CalRecycle focus continues to be on program implementation

# Major Issues in Infrastructure Development

- ▶ Cost compared to landfilling
- ▶ Financing new/expanded facilities
- ▶ Permitting at state level
- ▶ CEQA
- ▶ Local land use decisions
- ▶ NIMBY
- ▶ Ensuring markets to use increased amount of organics materials



# CalRecycle Greenhouse Gas Programs

## 2 Grant Programs (\$20 million)

- ▶ Organic materials (\$15 million)
- ▶ Fiber, Plastic, and Glass (\$5 million)
- ▶ Statewide, competitive

## 1 Loan Program (\$5 million, revolving)

- ▶ Organics & Fiber, Plastic, and Glass
- ▶ Statewide, competitive

# Goals and Co-Benefits

- ▶ Reduce GHG emissions
- ▶ Expand composting & AD infrastructure
- ▶ Expand manufacturing from paper, resins and glass
- ▶ Benefit disadvantaged communities
- ▶ Co-benefits:
  - Enhance air and water protection at organics sites
  - Create jobs
  - In-state biofuel/bioenergy production

# Grant/Loan Contact Info

Link to all program documents and application:

<http://www.calrecycle.ca.gov/Climate/GrantsLoans/>

- ▶ All questions for the Grant Programs  
[GHGreductions@CalRecycle.ca.gov](mailto:GHGreductions@CalRecycle.ca.gov)
- ▶ All questions for Loans  
[Loans@CalRecycle.ca.gov](mailto:Loans@CalRecycle.ca.gov)

# How Can State and Locals Work Together For Additional Diversion, Especially Organics?

- ▶ Provide financial and technical assistance to composters, AD, manufacturers
- ▶ Project with ILG
  - ▶ educate planners and elected officials
  - ▶ develop models/tools for planning, siting, local infrastructure development, etc.
- ▶ Partner with local SBDCs and Economic Development entities
- ▶ Educate generators of organics about AB 1826
- ▶ Promote end use markets for compost, etc.

# Markets: Procurement & Demand

- ▶ Markets mostly local or regional - need local demand
  - ▶ Local government procurement - 939 mandate
  - ▶ Promotion with local residents, landscapers, businesses, Chamber of Commerce
- ▶ Sustainable landscaping
  - ▶ Calif. Urban Water Conservation Council
  - ▶ DWR model water-efficient landscape ordinance
- ▶ CalTrans (and other agencies) - compost and mulch for erosion control and landscaping
- ▶ Agricultural and grazing lands
  - ▶ Water conservation savings
  - ▶ Gov's Office re: soil health
  - ▶ Marin Carbon re: rangeland C sequestration

# Contact Info

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