

# Developing a Sustainable Organics Recovery Sector

A Forum for Sharing Strategies and Building Toward a Regional Consensus



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# Context



**GHG + Waste  
Reduction  
Goals**



**Growth of  
Recovery  
Operations**



**Sustainable  
Development  
of California  
Bio-economy**

# Motivators

**Health  
Protection**

**Knowledge  
Growth**

**Sustainable  
Design**

**Policy  
Consistency**

# Stakeholders for Regional Convening

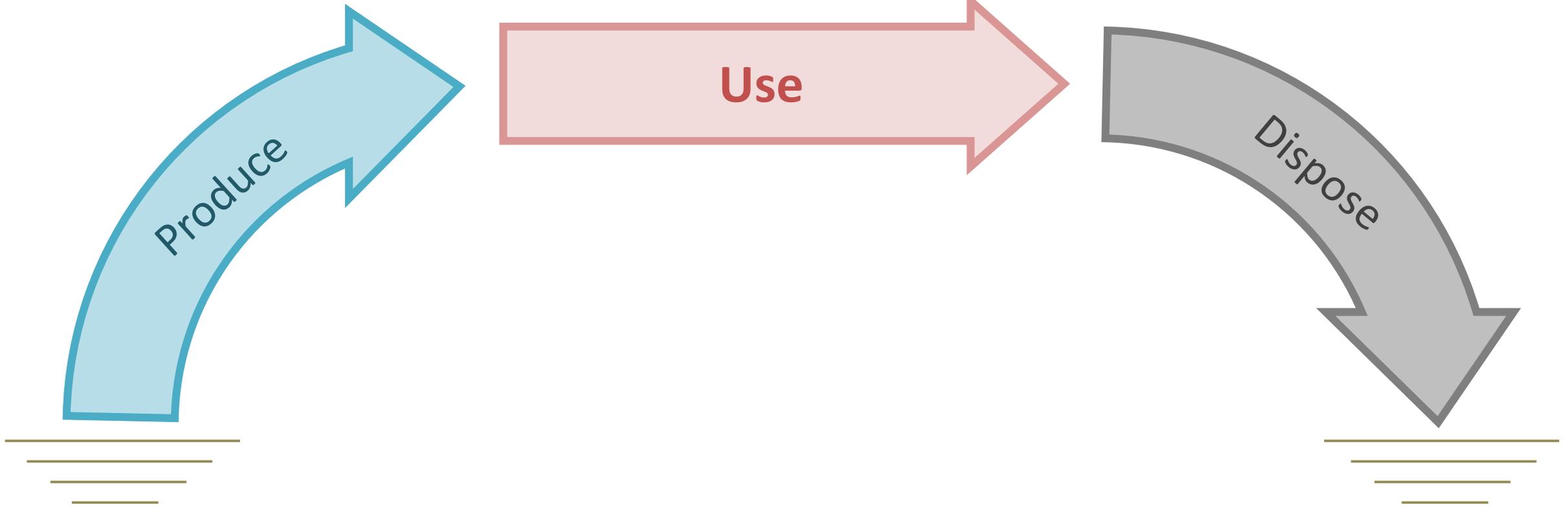
**36:** Owners / operators of facilities

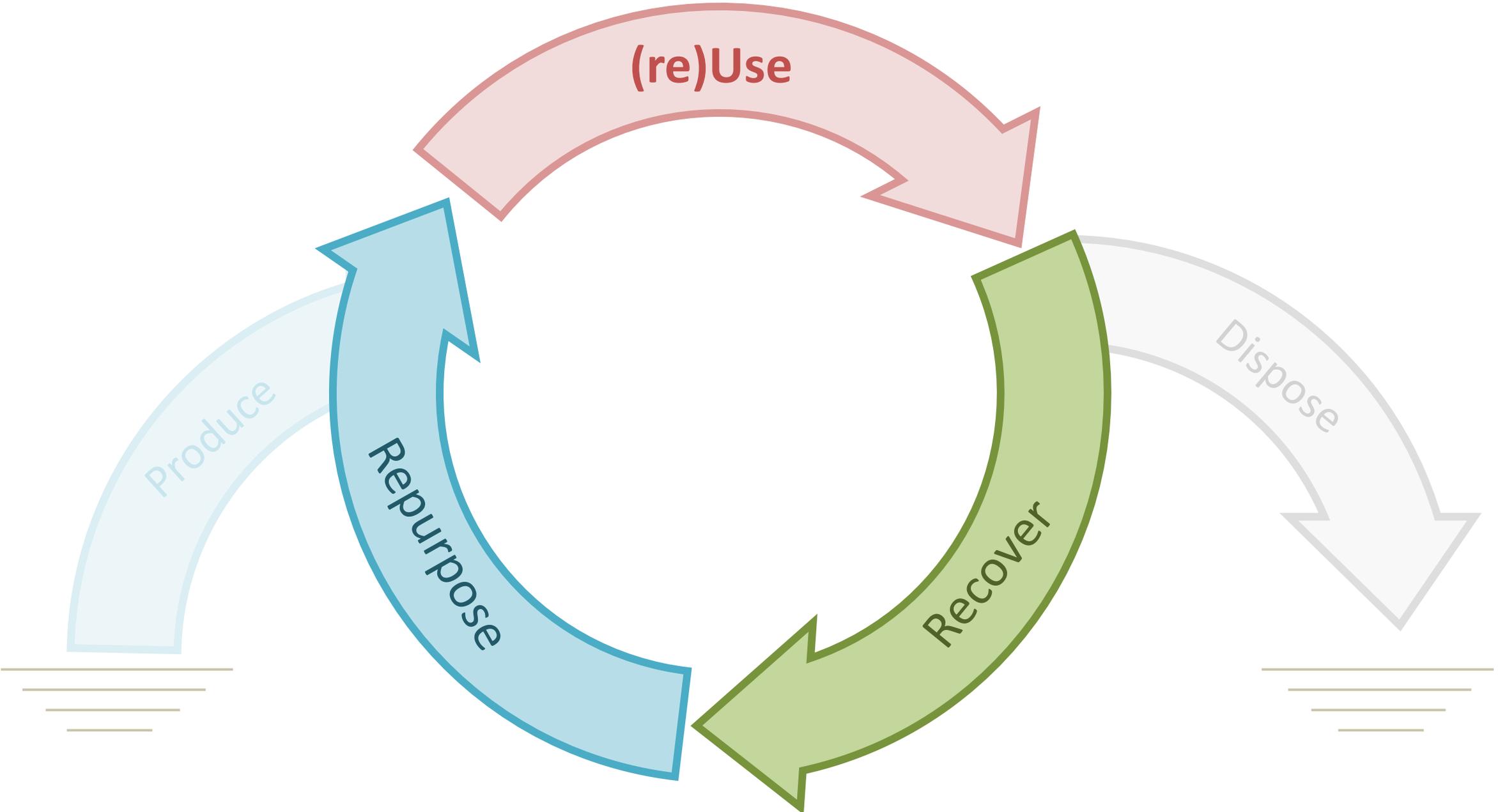
**26:** City and county government

**15:** Practice Leaders / Consultants / Trade Associations

**13:** Public Interest and Community-based Groups

**12:** Regionwide and State Agencies





(re)Use

Produce

Repurpose

Recover

Dispose

(re)Use

```
graph TD; A["(re)Use"] --> B["Recover"]; B --> C["Repurpose"]; D["Dispose"]
```

Recover

Repurpose

Dispose

(re)Use

Generation

Recover

Collection

Pre-Processing

Processing

Post-processing

Dispose

Repurpose

Storage

Conversion

Application

(re)Use

trim

scrap

excrete

Recover

clean

bag

multi-collect

single-collect

sort

screen

de-  
package

press

chip

grind

slurry

digest

compost

pyrolize / gasify

upgrade

screen

admix

char

Repurpose

store

inject

fuel

pile

convert energy

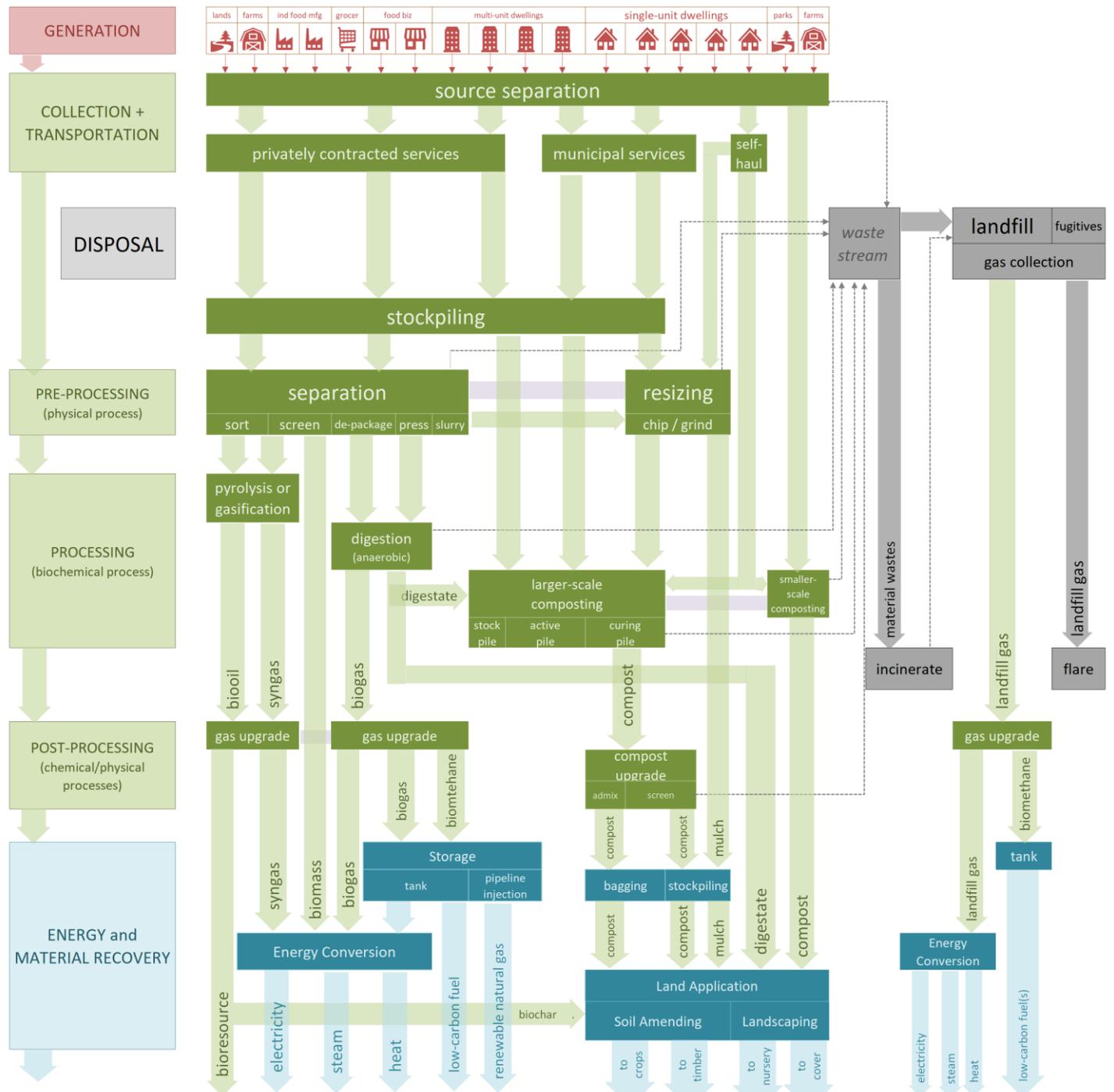
amend soil

cover ground

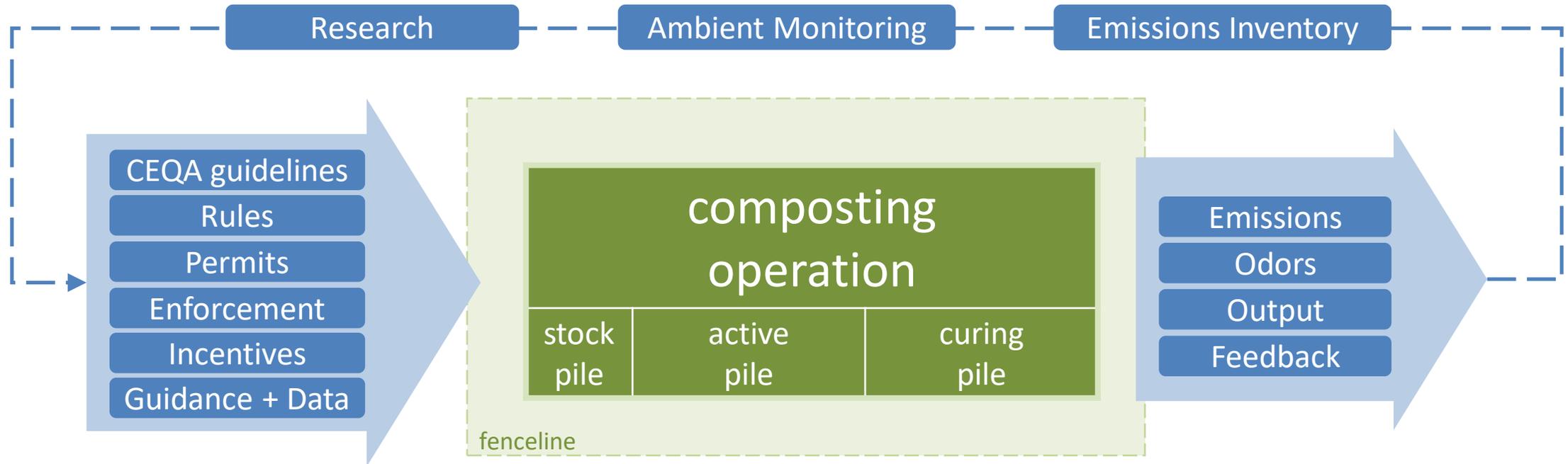
Dispose

incinerate

landfill



# “Well-designed and Properly-functioning Facilities”



1

## Policy Toolkit

- CEQA guidelines
- rules, permits, enforcement
- incentives
- guidance + information

2

## Life-cycle Thinking

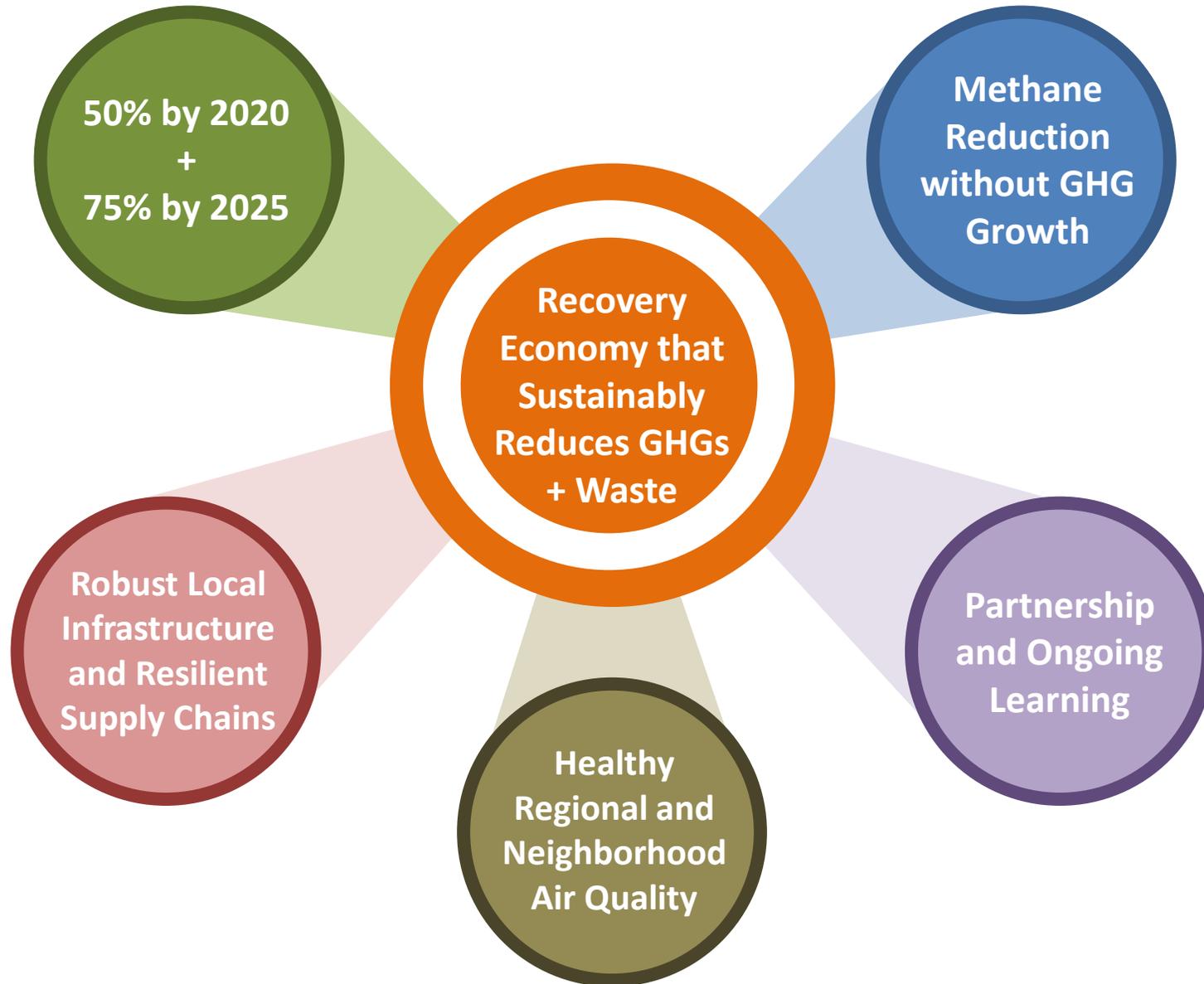
- supply chain assessment
- process flow estimation
- net GHG emissions analysis
- resilience planning

3

## Collaborative Design

- neighbors / cities + counties
- agencies / cities + counties
- operators / cities + counties
- markets / cities + counties

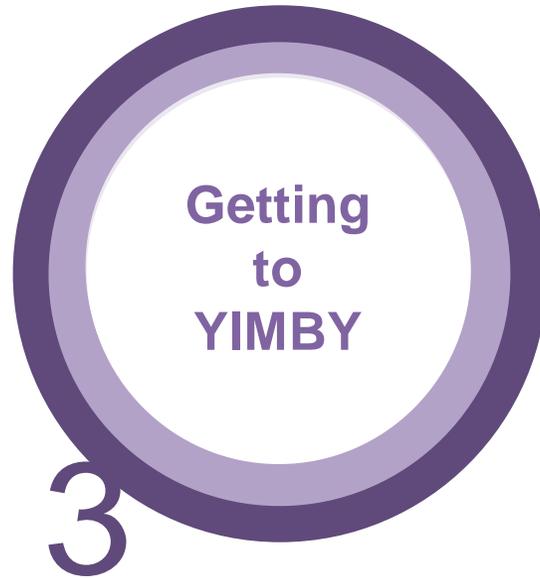
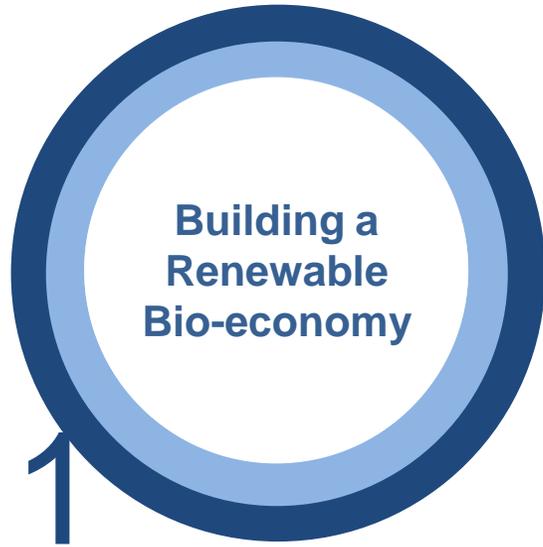
# Vision



# Strategy



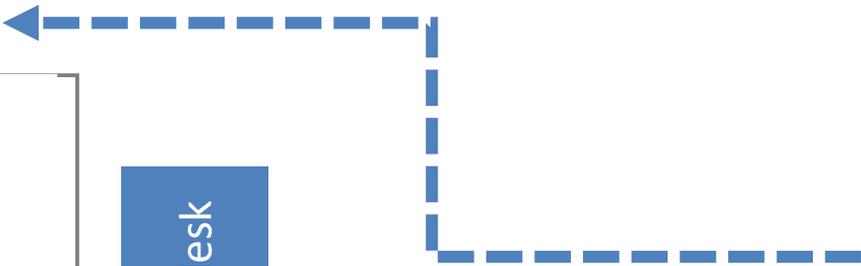
# Event Structure: Six Discussion Stations



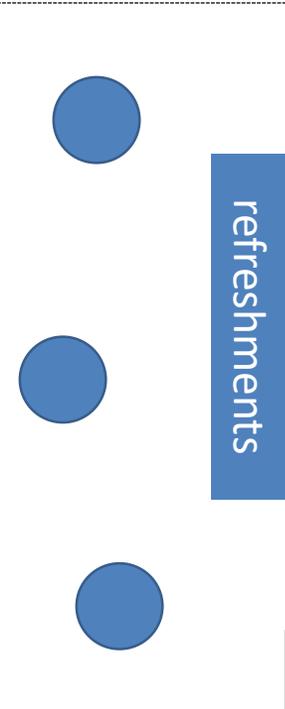
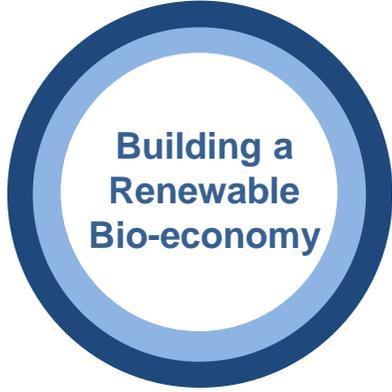
Claremont



welcome desk



Yerba Buena



refreshments

registration



Front Door

# Event Schedule

1:30 Welcome + Presentation

2:00 Discussion Session (🔔 at 2:25)

2:30 Discussion Session (🔔 at 2:55)

3:00 Discussion Session (🔔 at 3:25)

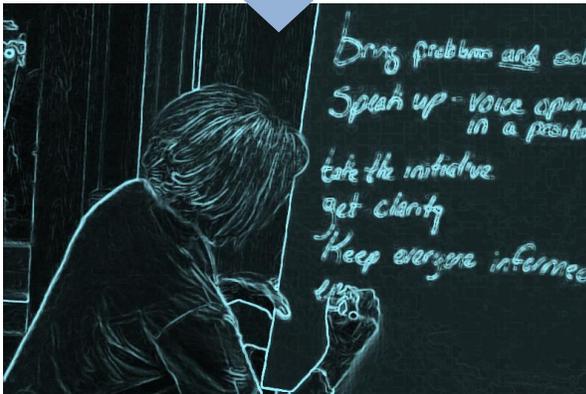
3:30 Report Back + Plenary Discussion

4:00 Planned Adjournment

1

2

3



# Rules of Engagement

- Please help us balance participation across tables. If a table fills up, please try next session. (If need be, pull up a chair.)
- Please share your perspective. We are here to hear it, not judge it.
- Please be respectful of everyone else's perspectives. We are here to hear them too.
- Please speak at a modest volume to keep the din down in this room.
- Please be thoughtful about the length of your comments so that discussion happens.
- Please take side conversations into the atrium. (There are treats out there.)
- **Be REGIONable.** Please think about way to help this system work overall.

# Six Discussion Station Options

(Choose up to three)

Table	Description	What You Should Learn	What You Should Share	Goals
<b>Getting to YIMBY:</b> Building public consensus around organics recovery	This highly interactive station starts with a map of Bay Area organics recovery infrastructure and encourage you to share your perspectives about it.	Air District community engagement and compliance/enforcement commitment.	Your perspectives as a community member about organics recovery infrastructure.	<ul style="list-style-type: none"> <li>Identify common community concerns about organic sites</li> <li>Explain our nuisance response efforts</li> </ul>
<b>Developing Local Facilities:</b> Rightsizing, planning, and siting facilities in your community	This station discusses the need for new organics recovery facilities in the Bay area and ways to plan their integration to minimize vehicle miles traveled.	Estimates of Bay Area organic diversion needs, number of facilities, facility types, and integration examples.	Your strategic perspective about rightsizing facilities and create compatible land uses in Bay Area communities.	<ul style="list-style-type: none"> <li>Express support for local facility development</li> <li>Socialize the idea of facility rightsizing and savvy siting</li> </ul>
<b>Building a Renewable Bio-economy:</b> Strategies that help organics recovery supply chains create products and value	This station takes a birds-eye view of recovery operations to contemplate how what we send down a supply chain can achieve its highest use.	A layered view of organic resource recovery and synergies that might maximize the aggregate value of recovered organics.	Your knowledge about market forces and thermodynamics that shape recovered organic products.	<ul style="list-style-type: none"> <li>Think about organics recovery in terms of regional economy</li> <li>Strategize product and market development</li> </ul>
<b>Rules for Organics Recovery:</b> A preview and discussion of our developing regulations	This station provides an overview of our conceptual framework for organic material tracking, handling and composting. It relates these to our overall Methane Strategy. If needed, it provides a "Rule Development 101" overview.	A little about the Rule Development Process and where we are headed on the Composting front.	Your ideas and opinions on what we should emphasize in our Rule making efforts	<ul style="list-style-type: none"> <li>Receive feedback on our regulatory concepts</li> <li>Help align our rules with those of CalRecycle and CARB</li> </ul>
<b>Permitting Facilities:</b> Ensuring air quality goals and consistency for recovery operations	This table engages participants in discussion about some of the key questions involved in permitting organics recovery facilities.	Current permit requirements and opportunities for public participation. Impacts of differing permit circumstances. Our data gaps.	Suggestions for permit exemptions, assuring real emissions reductions, and for collaboration with other agencies.	<ul style="list-style-type: none"> <li>Agree on the value of early informaton sharing (i.e., during CEQA review).</li> <li>Identify areas of partnership with other permitting agencies.</li> <li>Discover ways to fill data gaps</li> </ul>
<b>Anticipated Emissions Along the Supply Chain:</b> A review of what we know	This station looks across the value chain to reflect on anticipated emissions at each step and the state of our estimation of them.	A more detailed view of emissions and emission sources along the organics recovery supply chain.	Your knowledge about emissions, emission data, and source tests.	<ul style="list-style-type: none"> <li>Improvements in the combined knowledgebase about emissions along organics recovery supply chains.</li> </ul>



# Questions?

(clarifications only please)