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CONSULTING

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**RRS**   
**recycle.com**

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# SUSTAINABLE MATERIALS TASK FORCE

**THANK YOU FOR JOINING US TODAY.  
WE WILL BEGIN AT 10 AM.  
WIFI: BROADWAY COMMONS – NO PASSWORD**

October 21, 2024

# AGENDA

10:00 a.m. Welcome and Introductions

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10:15 a.m. Introductory Remarks: Commissioner Augerot and Commissioner Cameron

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10:25 a.m. Background, Context and Task Force Principles: John Deuel and Liz Start

---

10:40 a.m. Solid Waste Management vs. Sustainable Materials Management, DEQ

---

11:10 a.m. Perspectives on the NW OR Regional Materials Management System, RRS

---

12:00 a.m. Lunch

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12:45 p.m. Case Studies: Approaches to Sustainable Materials Management: City of Portland and St. Vincent De Paul

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1:30 p.m. Discussion: Towards a Regional Sustainable Materials Management Framework

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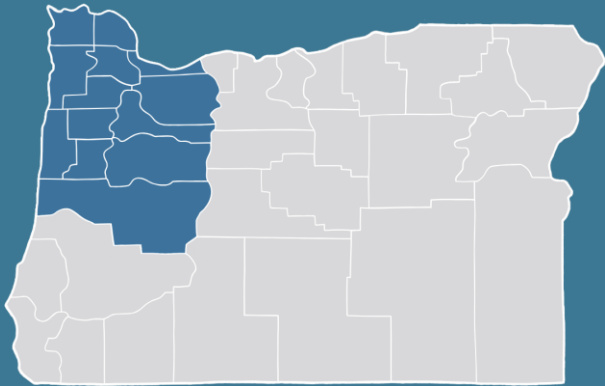
2:50 p.m. Next Steps

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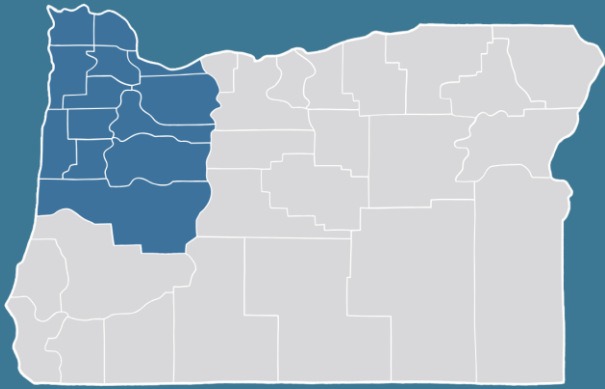
2:55 p.m. Closing comments: Commissioner Augerot

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3:00 p.m. Adjourn



## 2024 SMMP TASK FORCE



# 2024 SMMP TASK FORCE

## PROJECT TEAM



Elizabeth (Liz) Start  
Facilitator



Joel Schoening  
Technical Consultant



Bryce Hesterman  
Technical Consultant



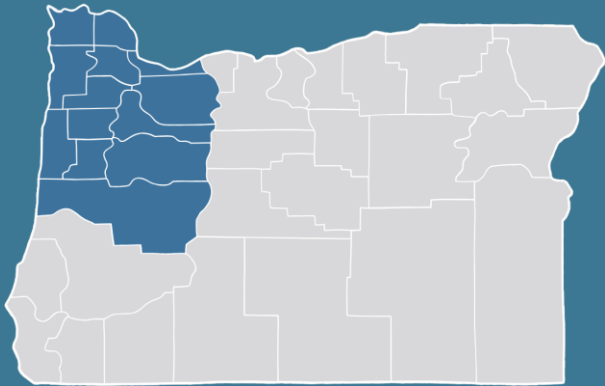
# TEAM & GROUP INTRODUCTIONS

## SMMP Task Force Attendees

- Name
- Organization
- Where you are located

## Other Guests

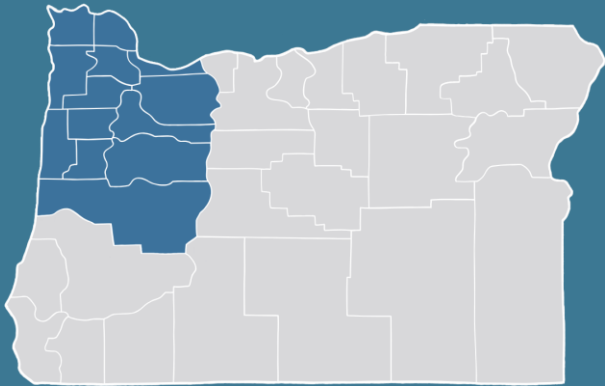
- Name
- Organization



# 2024 SMMP TASK FORCE

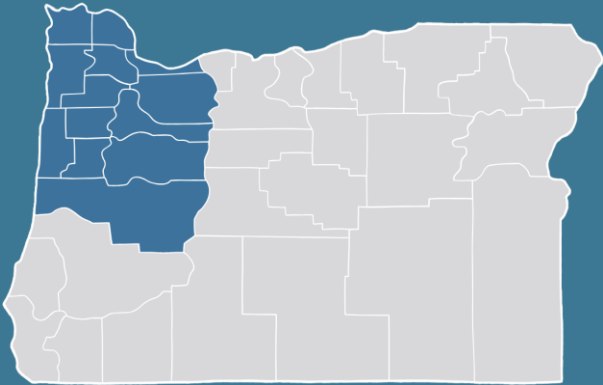
# HOUSEKEEPING

- **Emergency Exit:** Please exit the room to the left and access the stairs through the door marked “Exit Only.” Note: the door locks behind you.
- **Restrooms:** Exit the room to the right and the restrooms are located on the left side.
- Silence Phones and step out of the room if you need to use your phone.
- Use name tents to ask questions or make a comment.
- Please keep side conversations to a minimum to prevent distractions and the microphones will pick up additional conversation.
- Discussions, questions, and comments will be taken from SMMP Task Force members. Guests, please use index cards and we will address comments as time allows.
- WiFi: Open under Broadway Commons (no password)



## 2024 SMMP TASK FORCE

# INTRODUCTORY COMMENTS



# 2024 SMMP TASK FORCE



Benton County

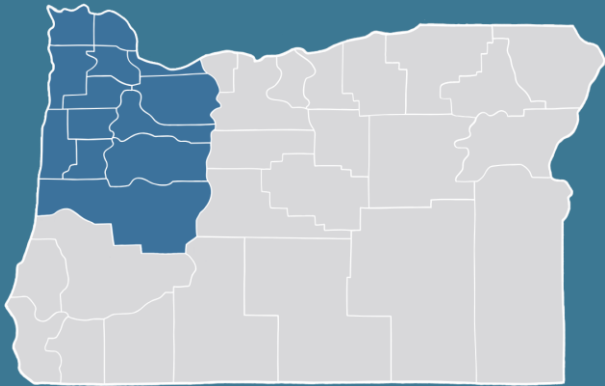
Commissioner Xan Augerot



Marion County

Commissioner Kevin Cameron

# BACKGROUND AND CONTEXT



## 2024 SMMP TASK FORCE



John Deuel  
Formerly with  
Oregon State University

# BCTT Overview

## Sustainable Materials Management Plan Task Force Kickoff

October 21, 2024





# Overview



The process was designed to serve as a “bridge” between past events and any next steps.



**Goal:** help reset the current dynamics through the development of “common understandings” and recommended protocols for future consideration of solid waste issues.



A recommendation-making body with a specific Scope. The findings and recommendations are not binding on decision-makers



The formal process began on September 8, 2022, and ended on April 10, 2023.



11 public Workgroup meetings and 86 subcommittee meetings.

# Core Elements of the Charge

- Develop Common Understandings to form the basis of the work
- Clarify existing criteria and information requirements for the land use review process for any proposed landfill expansion
- Scope the necessary tasks to start a Long-Term Sustainable Materials Management Plan process
- Consider creating a public-facing document and community education campaign on these topics

# Findings & Recommendations

- Goal: produce relevant, verifiable facts – not speculation or opinions framed as facts.
- Workgroup formally vetted 124 Findings and 94 Recommendations
- Overall, the Workgroup achieved 94% agreement on the 218 Findings and Recommendations.
- Six findings and six recommendations where at least one member voted against it, but each received a majority recommendation.



# Section A: Sustainable Materials Management Plan (SMMP)

**Main Theme:** An SMMP should help transition and re-focus from linear, end-of-life waste management to more holistic, systemic, circular approaches for all materials. The many positive impacts:

- Efficiencies of full life cycle/cradle-to-cradle sustainable material management.
- Cost savings and other benefits from waste reduction
- Creating opportunities for efficient circular economies both locally *and regionally*
- Better inclusion of equity and shared prosperity in waste considerations
- Recognizing and encouraging innovation in the materials stream

# Section E: Community Education & Public Outreach Summary

## Takeaways:

- Community education and extended outreach are vital steps
- Making sure everyone in the community gets information about this process requires two broad methods:
  - specifically targeting underserved groups and using multiple outreach methods.
  - It is also essential that communications are succinct and easily understood by the entire population.



## **Link to Benton County Talks Trash Report**

- <https://cd.bentoncountyor.gov/benton-county-talks-trash/>

The image features two overlapping speech bubbles on a dark blue background. The bubble on the left is larger and contains the text 'Questions?'. The bubble on the right is smaller and is empty. Both bubbles are a light gray color with a subtle drop shadow.

**Questions?**

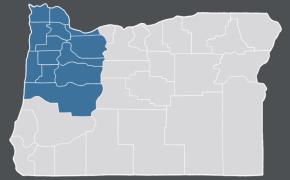


THANK YOU





# SMMP REGION

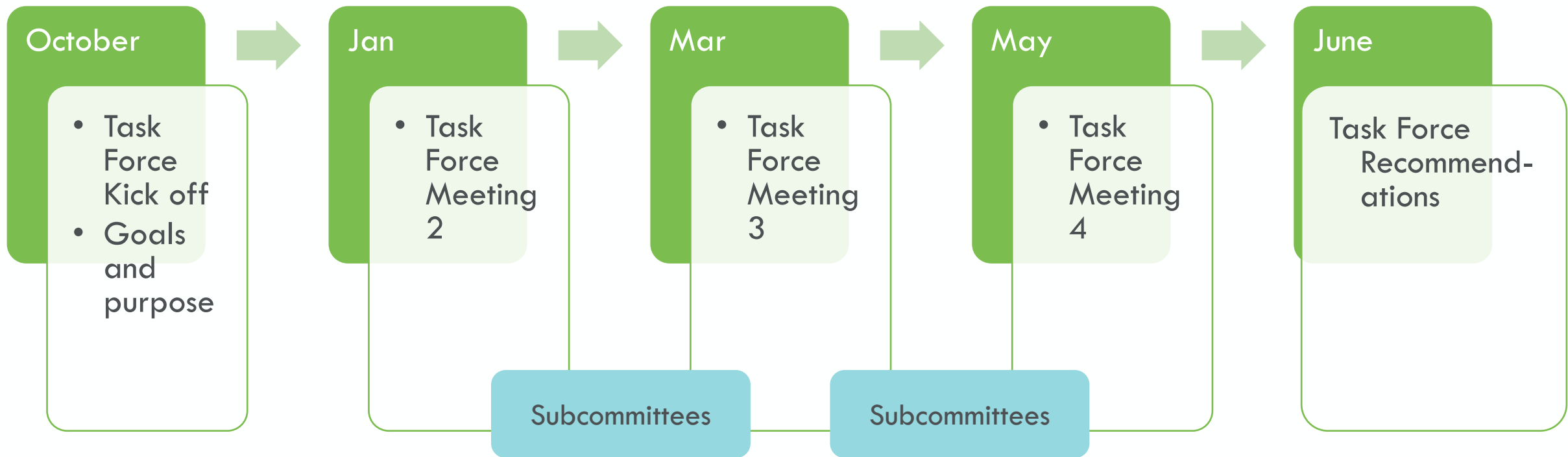
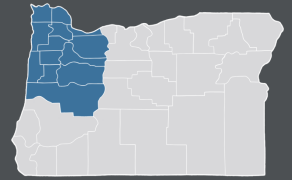


- Benton
- Clatsop
- Columbia
- Clackamas
- Lane
- Lincoln
- Linn
- Marion
- Metro
  - Clackamas
  - Multnomah
  - Washington
- Polk
- Tillamook



\*Additional counties or facilities can be included as needed, pending budget and project schedule.

# PROPOSED SMMP TIMELINE





# SMMP TASK FORCE PURPOSE

## Purpose

- Create a regional network and solutions.
- Solution-focused effort for a Sustainable Materials Management Systems.
- Northwestern Oregon collaboration to leverage resources, opportunities, & market services.
- Change waste management & sustainable materials management systems.



# GUIDING PRINCIPLES

## Guiding Principles

- The work of the SMMP Taskforce is regional in scope because impacts of waste management, positive and negative, are regional in nature and do not follow jurisdictional boundaries.
- The SMMP Task Force will consider and work towards a broad range of solutions to promote and instill a regional sustainable materials management system.
- The Task Force will prioritize solutions that create, maintain, or improve access to the benefits of a sustainable materials management system and reduce negative impacts.
- The SMMP Task Force will use a systems change approach to regional solutions.



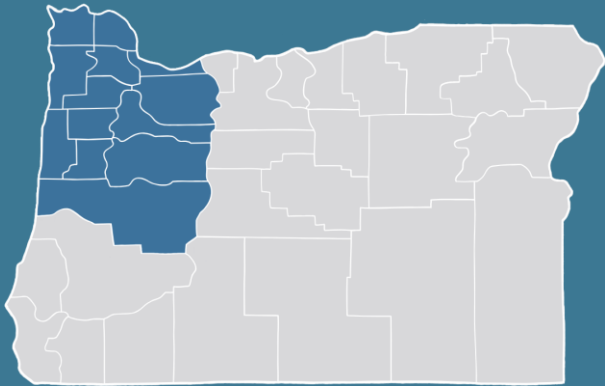
# INTENDED OUTCOMES

## Intended Outcomes of Kickoff Summit

- **Call to Action:** Use current and near-future waste management pressures to spur focus and change on sustainable materials management systems.
- Build an understanding that the region cannot “recycle our way out of this.”
- Create a full understanding of the waste system and pressure points in northwestern Oregon; recognize the connection between jurisdictions, opportunities for collaboration, etc.
- Develop a clear understanding of Waste Management vs. Sustainable Materials Management Systems.

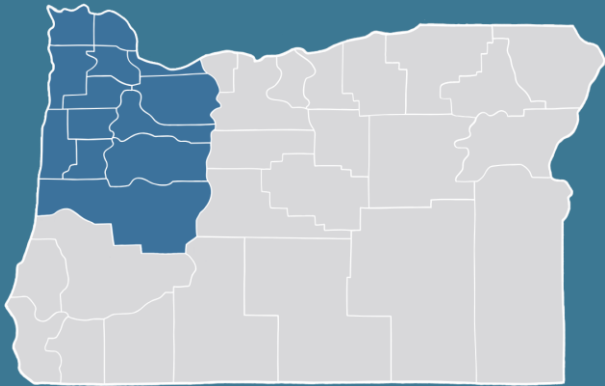
# COMMUNITY AGREEMENTS

- Participate!
- Listen actively - be respectful when others are speaking.
- Make sure everyone has an opportunity to contribute.
- If you aren't sure about something, ask clarifying questions.
- Reflecting on the past is most useful when it is directed toward a specific recommendation for the future.

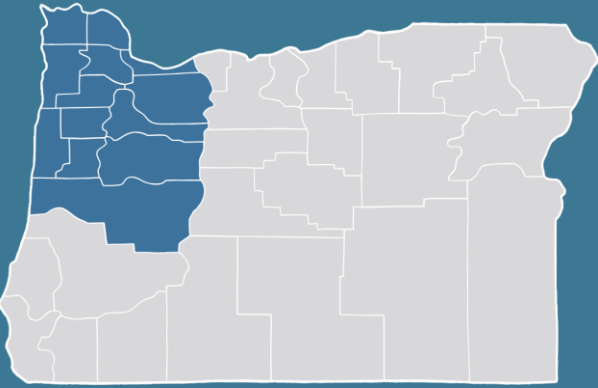


**2024 SMMP  
TASK FORCE**

**DEQ:  
SOLID WASTE MANAGEMENT VS SUSTAINABLE  
MATERIALS MANAGEMENT**



**2024 SMMP  
TASK FORCE**



# 2024 SMMP TASK FORCE

## RRS: PERSPECTIVES ON OUR REGIONAL MATERIALS MANAGEMENT SYSTEM



# PERSPECTIVE ON NW OREGON REGIONAL MATERIALS MANAGEMENT SYSTEM

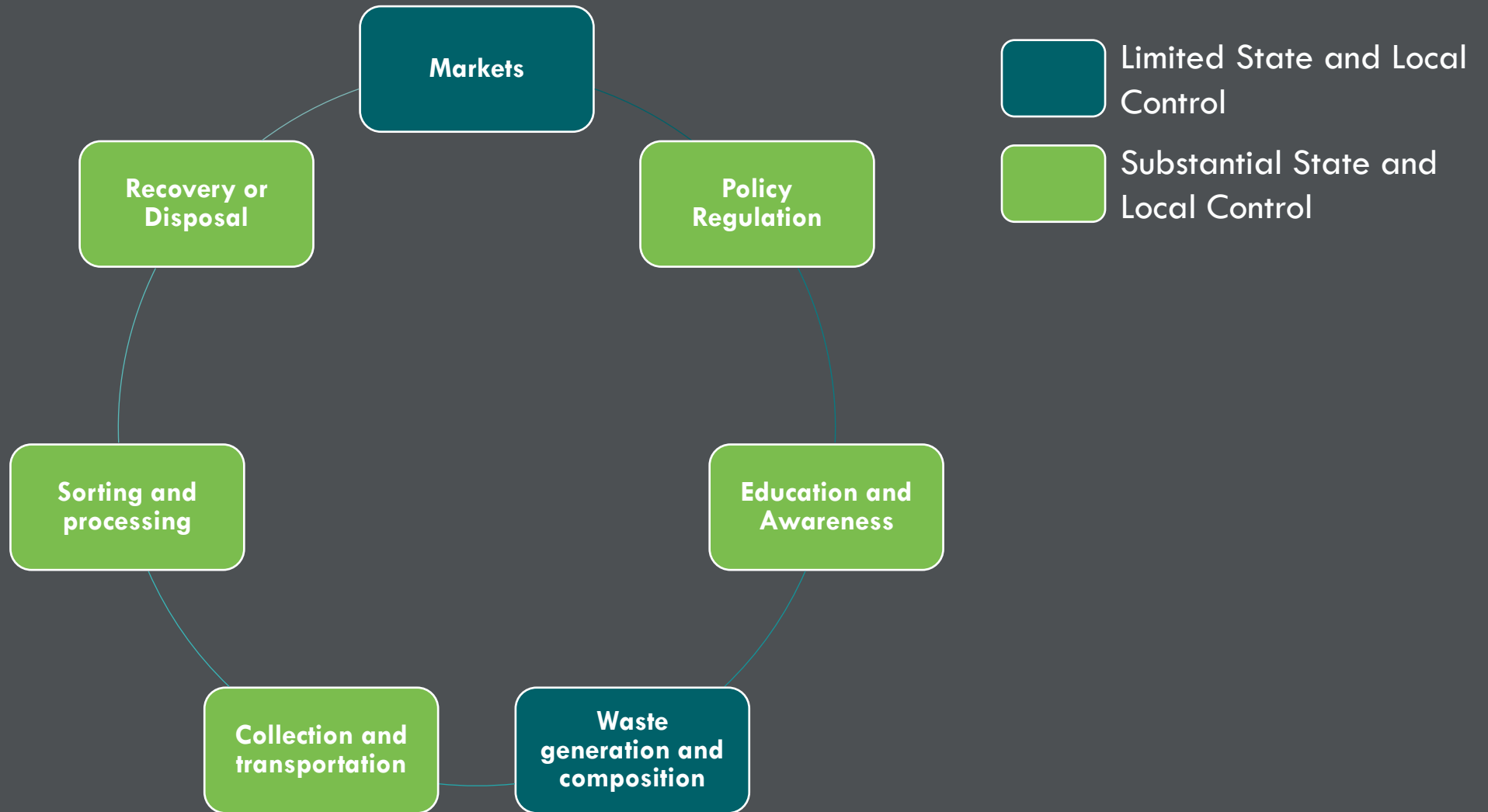
Elements of the system

Evaluating system benefits and costs

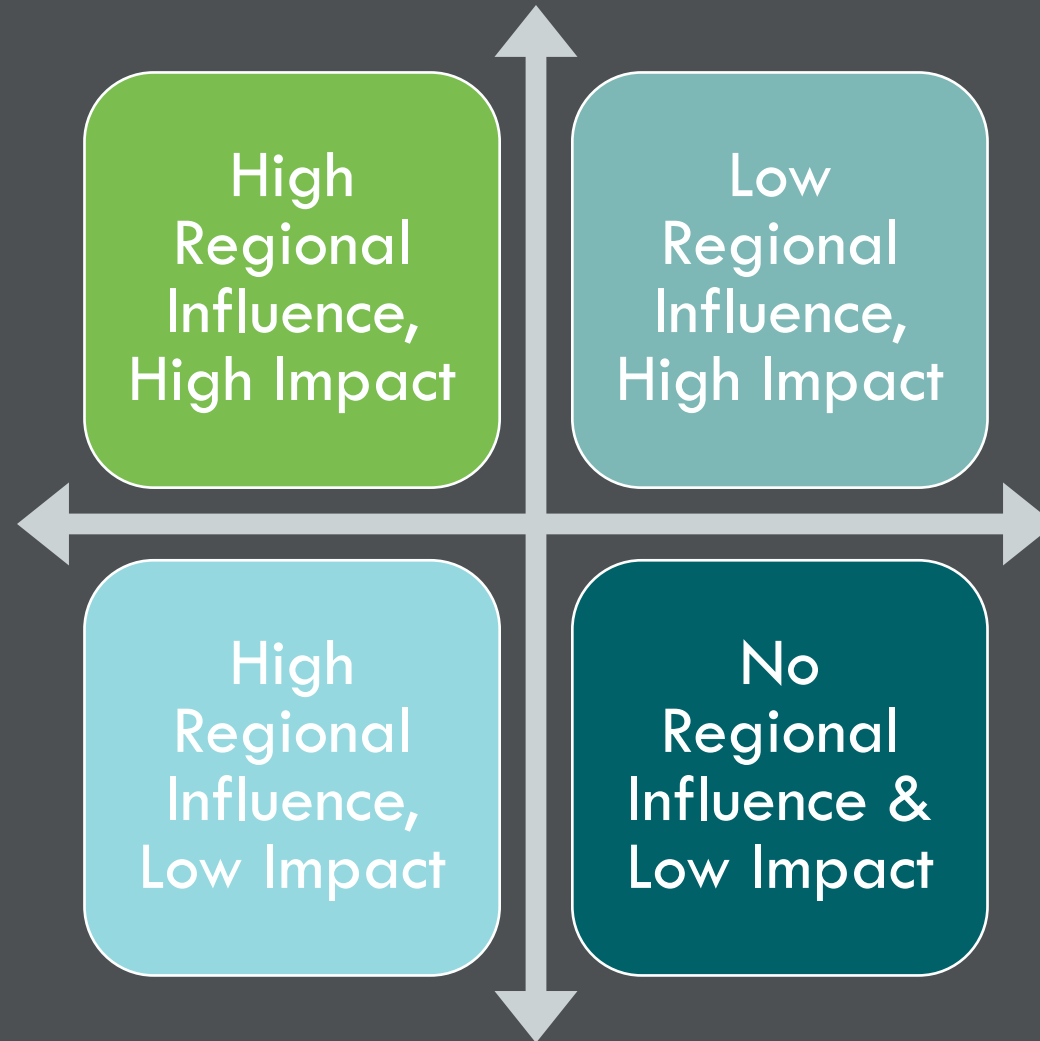
System status: policy

System status: Materials data and infrastructure

# ELEMENTS OF THE MATERIALS MANAGEMENT SYSTEM



# FRAMEWORK FOR SELECTING REGIONAL STRATEGIES





# EVALUATING IMPACTS

## Economic Factors

- Capital and operational costs
- Job creation and local economic benefits

## Environmental Factors

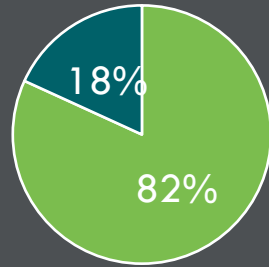
- Lifecycle impacts
- Associated climate emissions
- Water quality
- Air quality

## Social and Human Health Factors

- Worker safety
- Toxics
- Environmental justice

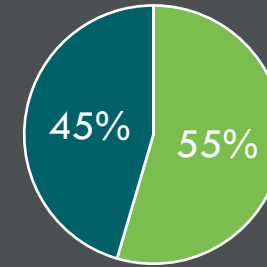
# REGIONAL POLICY STATUS

### Current Solid Waste Plan



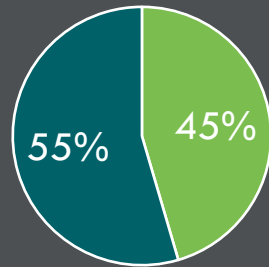
■ Wasteshed with plan/goal ■ No Plan/goal

### Specific Waste Reduction Goals



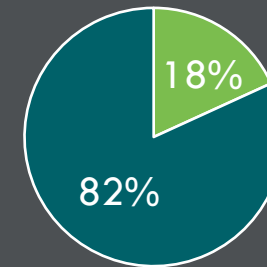
■ Wasteshed with plan/goal ■ No Plan/goal

### Reuse Goals or Priorities



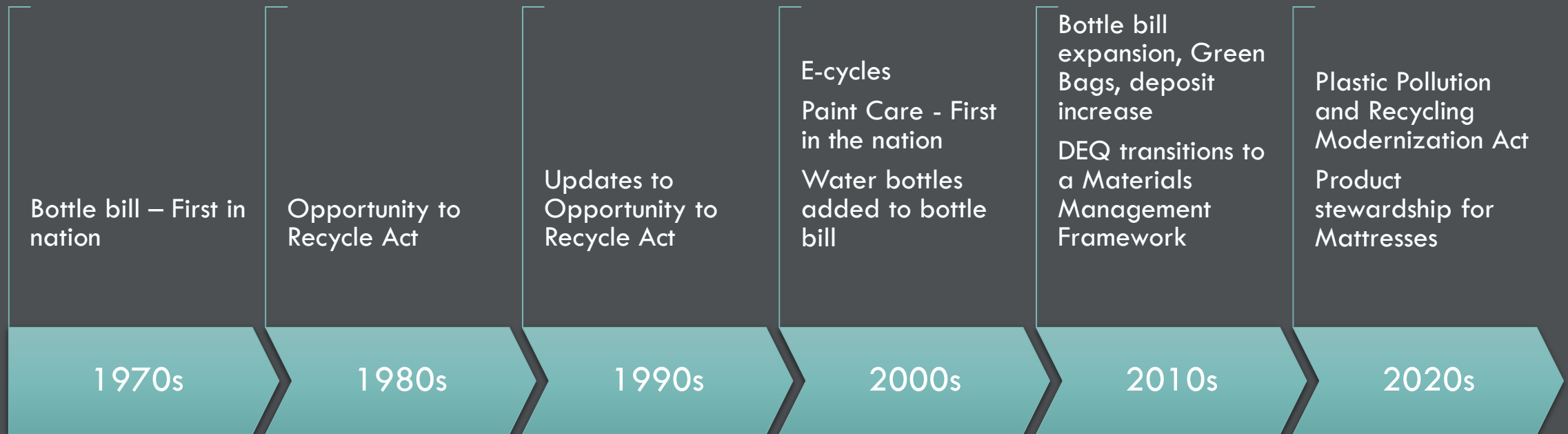
■ Wasteshed with plan/goal ■ No Plan/goal

### Additional Recovery Mandate(s)



■ Wasteshed with plan/goal ■ No Plan/goal

# STATE POLICY CONTEXT: EPR ON THE RISE



# RMA: STATUS AND IMPACT

Status: Implementation coming in 2025 – “A dial not a switch”

## What RMA will do

- Harmonize recycling collection lists statewide
- Fund collections statewide
- Create responsible end markets
- Generate lots of data
- Document the quality of our recycling systems
- Increase education and awareness campaigns

## What RMA will *not* do (at least not right away)

- Dramatically increase recovery/diversion



# QUESTIONS

5 minutes: Questions about Perspectives on the Regional Materials Management System

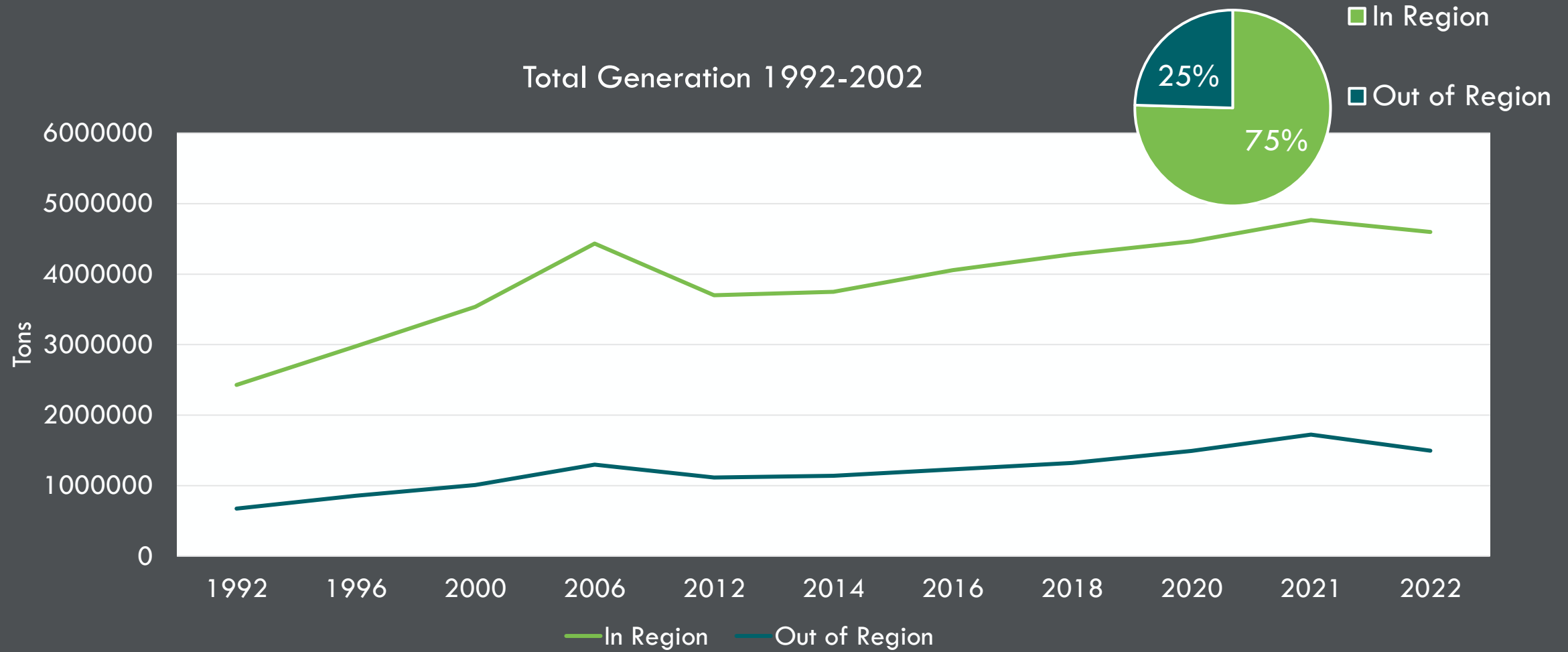




# MATERIALS DATA AND INFRASTRUCTURE

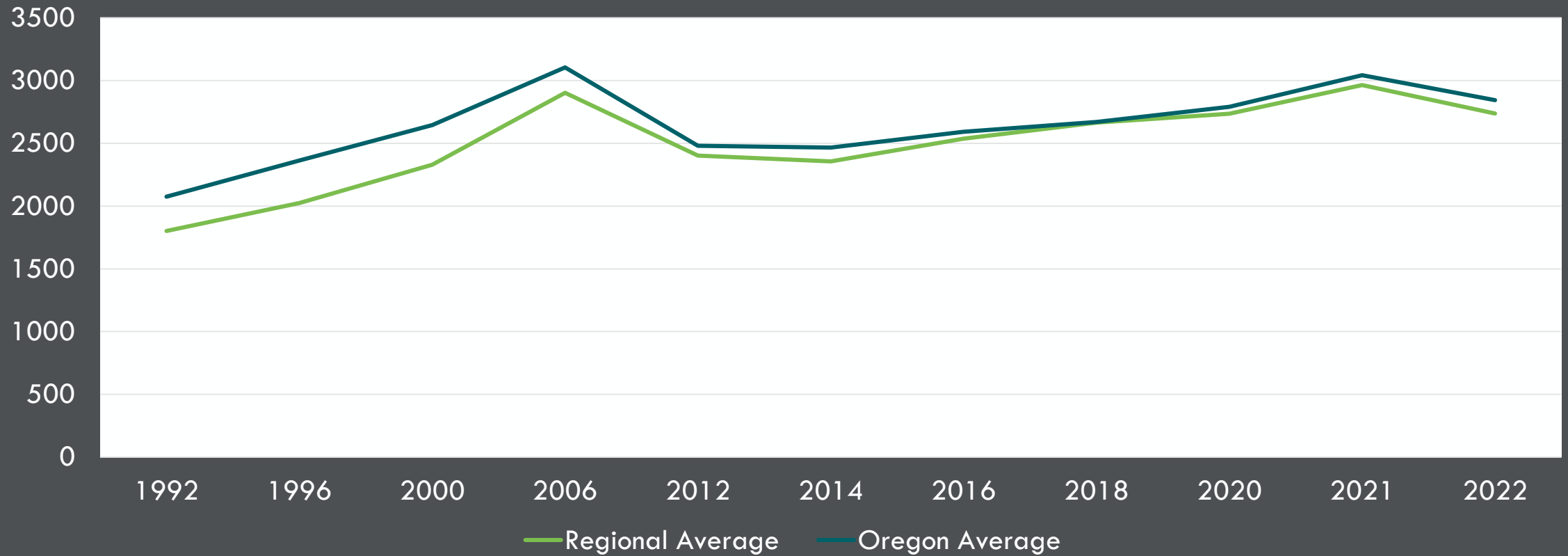
- Generation, Disposition and Composition
- Recycling Infrastructure
- Reuse Infrastructure
- Disposal Infrastructure
- Highest-best Use Potential

# WASTE GENERATION



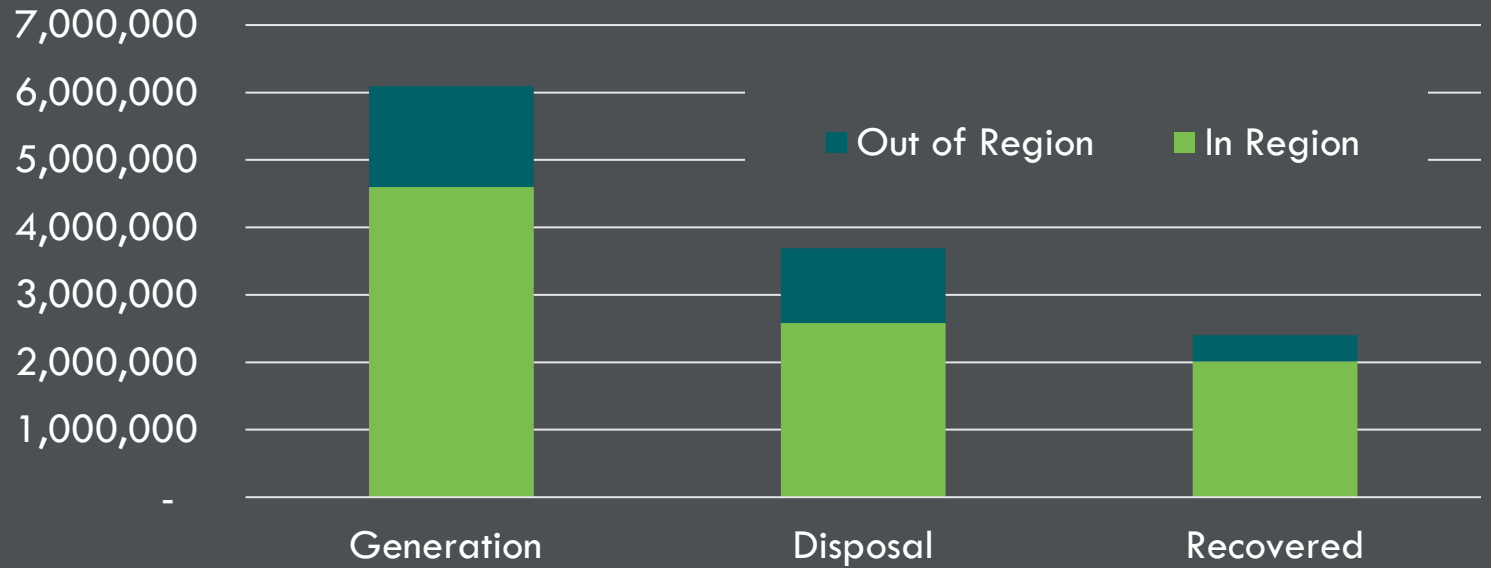
# WASTE GENERATION PER CAPITA

Per Capita Waste Generation 1992-2022

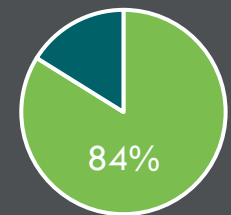
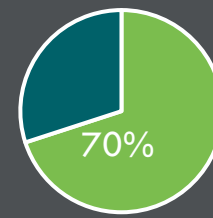
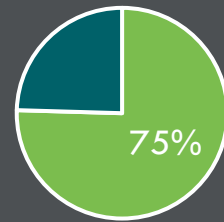




# DISPOSITION OF WASTE (TONS)



Regional Share



# FOCUS: RECOVERY



	Recovery Rate (Including Energy)	Recovery Rate (Excluding Energy)
Region	44%	39%
Rest of State	26%	23%
Total	39.4%	35%



# FOCUS: RECOVERY

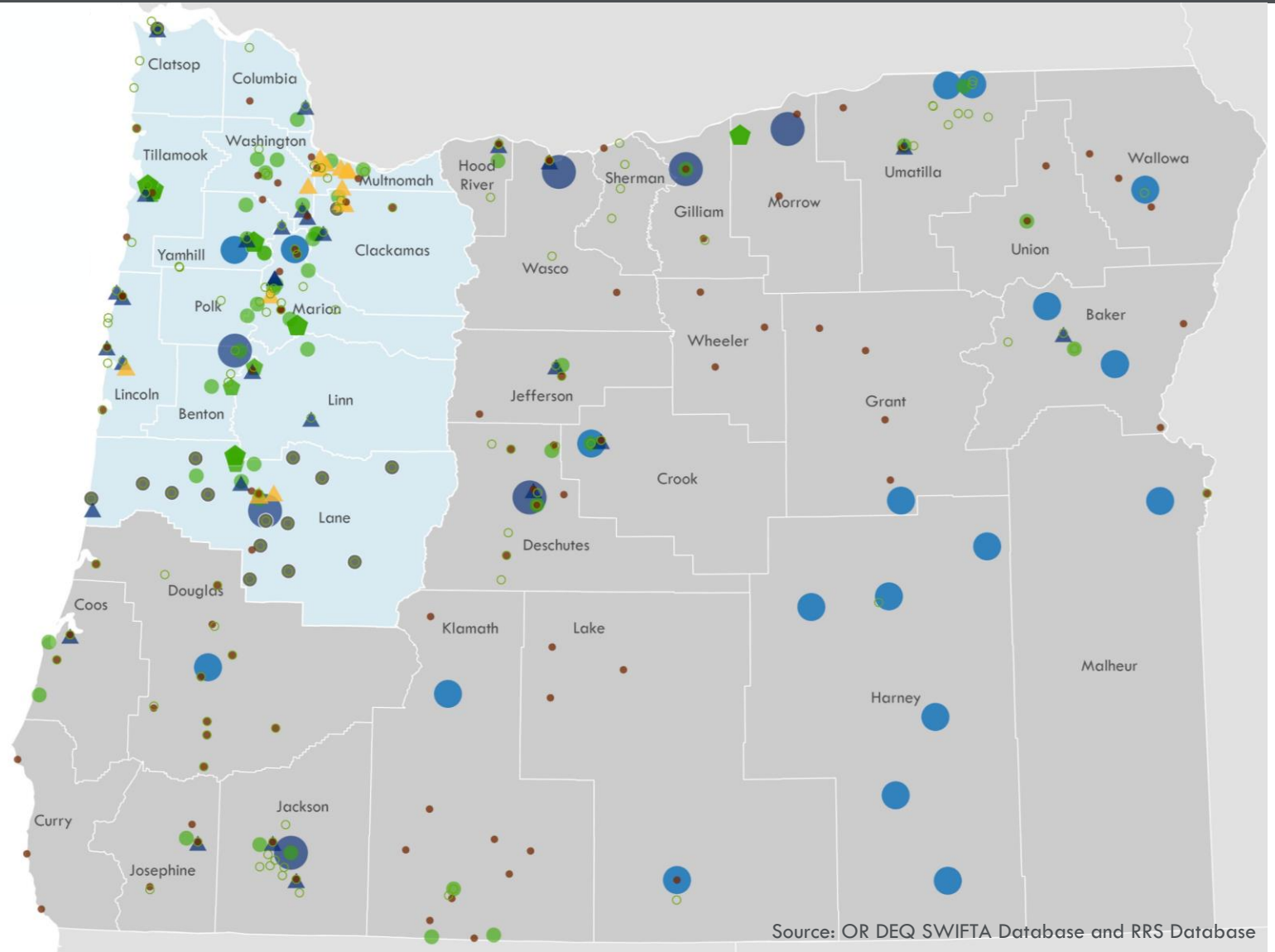


What about Reuse???



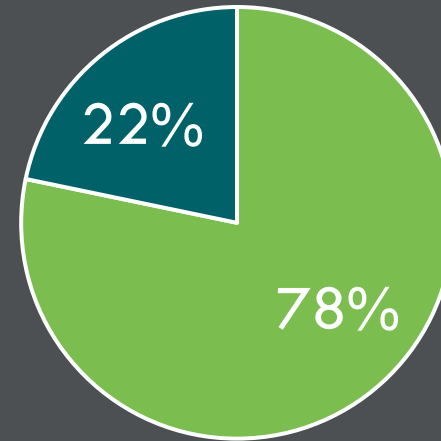
# OREGON SOLID WASTE INFRASTRUCTURE

- Recycling Depot
- Transfer Station
- Transfer Station and Depot
- ▲ Material Recovery
- ▲ Recycling Reload
- Compost
- ▲ Anaerobic Digester
- Local Municipal Landfill
- Regional Municipal Landfill



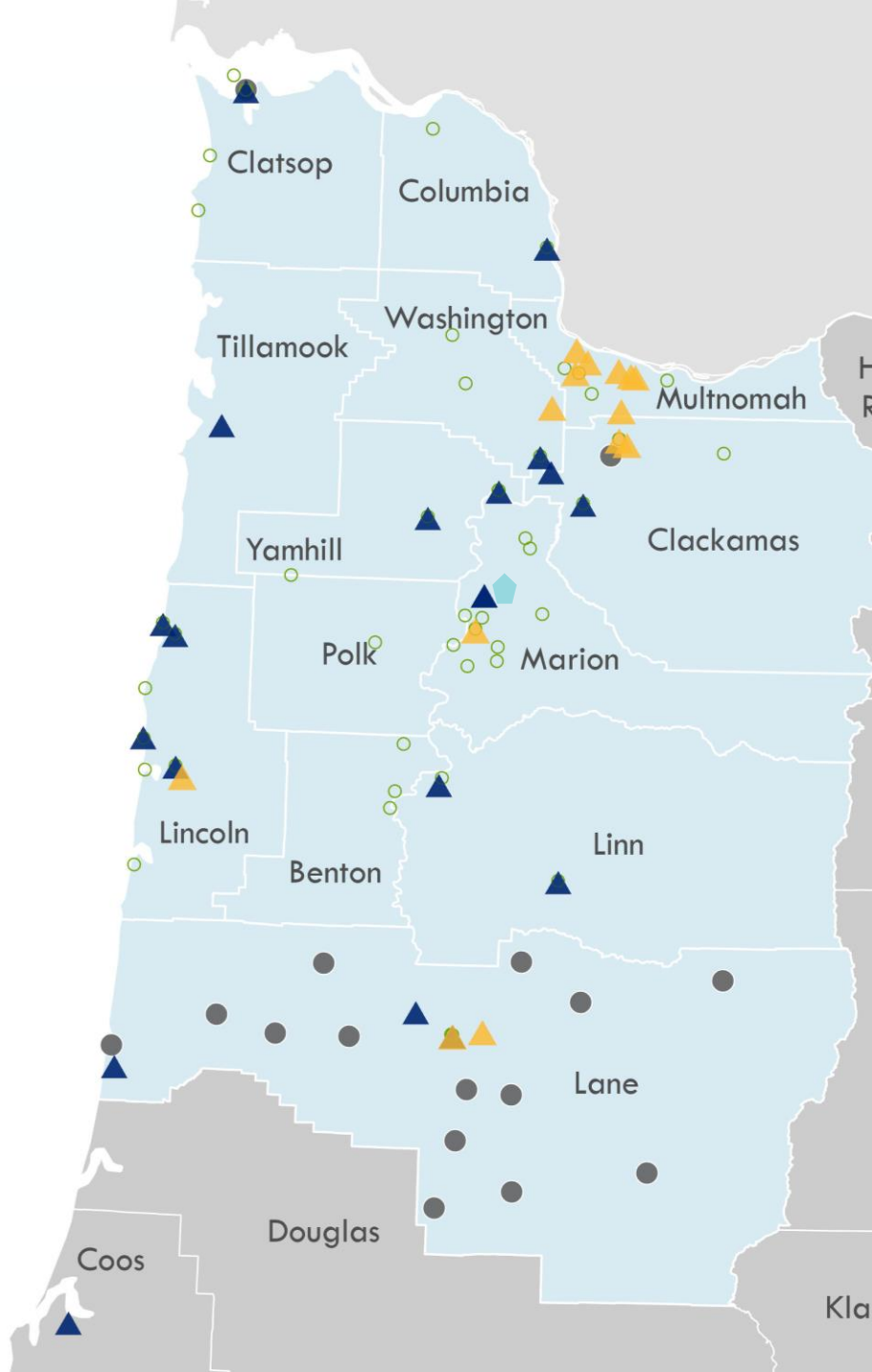
# REGIONAL RECOVERY INFRASTRUCTURE: RECYCLING PROCESSING

## Regional Share of Recycling



■ In Region   ■ Out of Region

**All Recycling processing  
(sorting) located in the Region**

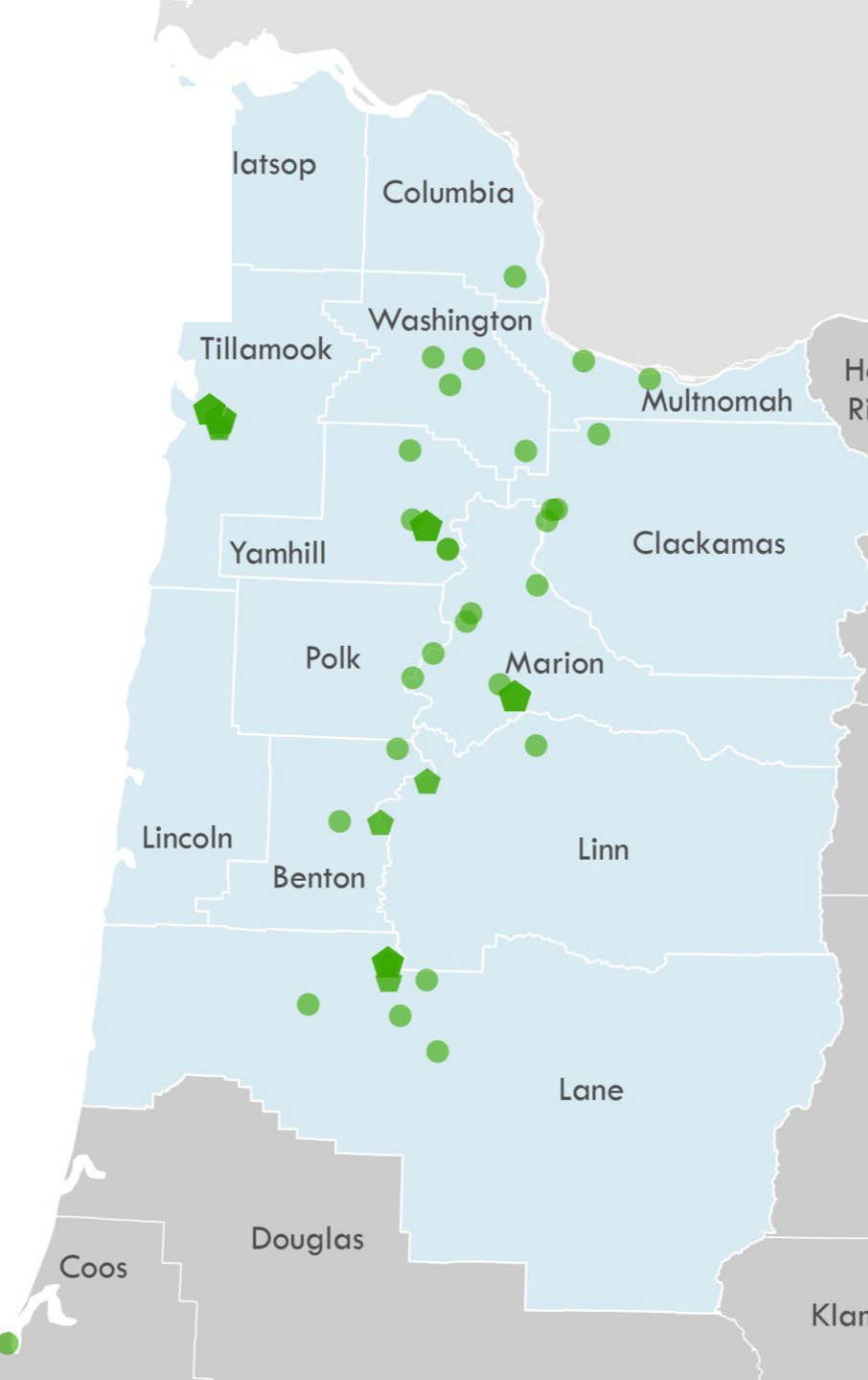


- Recycling Depot
- Transfer Station and Depot
- ▲ Recycling Reload
- ▲ Material Recovery
- ⬠ Waste to Energy

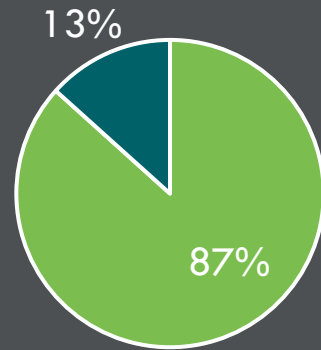
Source: OR DEQ SWIFTA Database Accessed September 2024 and , RRS Database, interpreted and Mapped by RRS



# REGIONAL RECOVERY INFRASTRUCTURE: FOOD AND ORGANICS

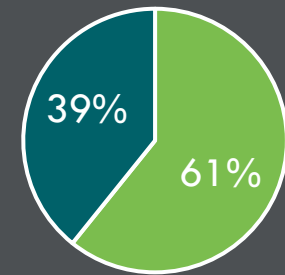


Regional Share of Composting



■ In Region ■ Out of Region

Compost & Anaerobic Digester Facilities



■ In Region ■ Out of Region

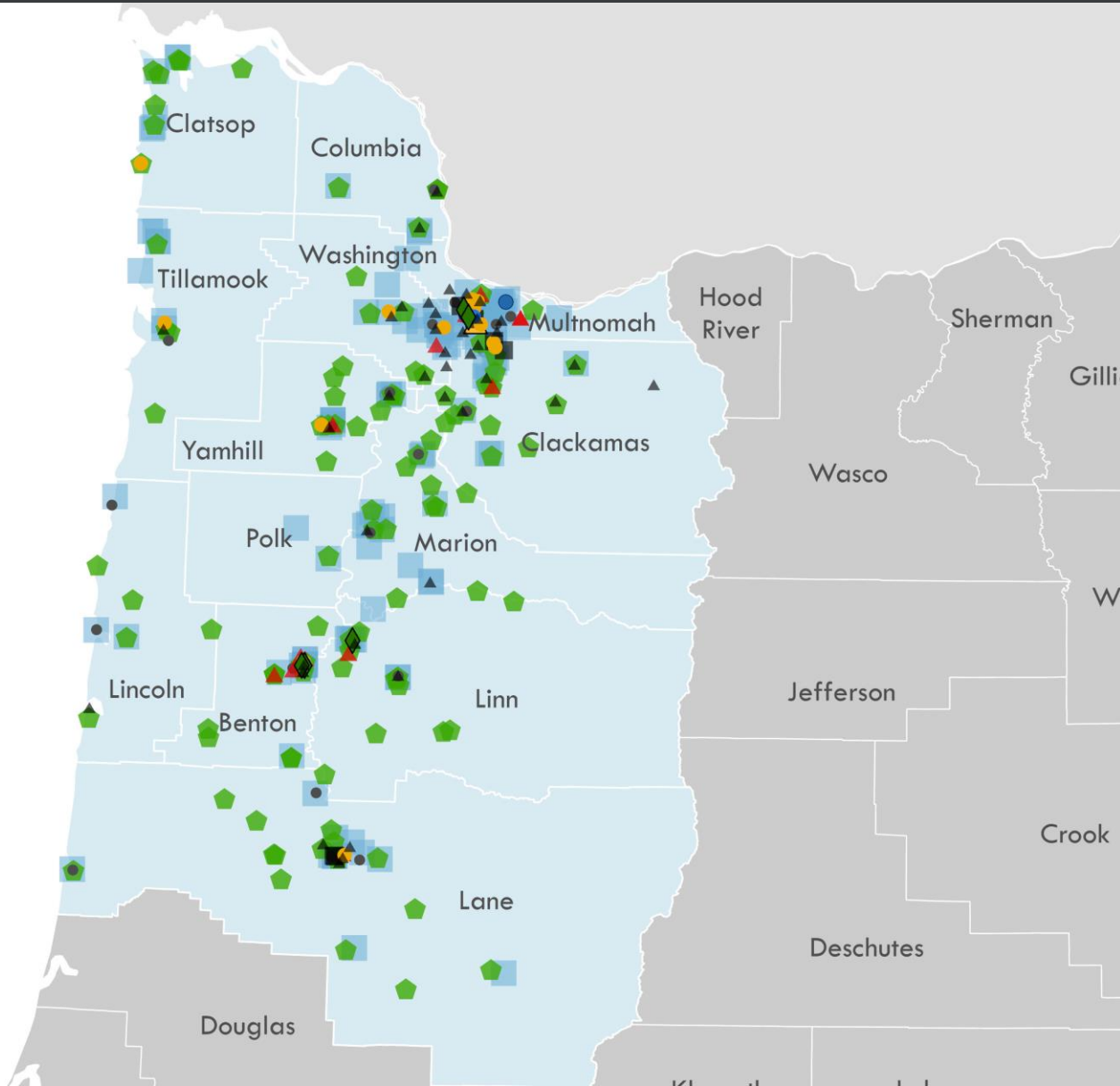
Anaerobic Digester  
 Compost

Source: OR DEQ SWIFTA Database, and RRS Facilities Database

# REGIONAL RECOVERY INFRASTRUCTURE: REUSE

## Reuse Repair Business Type

- Unknown
- Thrift/Secondhand Stores
- Food rescue/banks
- Building Materials Reuse
- ▲ Community Service Reuse
- ▲ Construction & Demolition
- Creative & School Supplies
- Electronics Reuse
- Other Reuse (bicycles, medical products, etc.)
- Packaging Reuse
- ◆ Repair
- ▲ Share/Tool Libraries

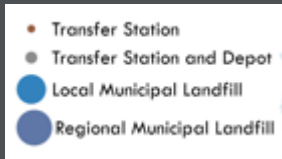
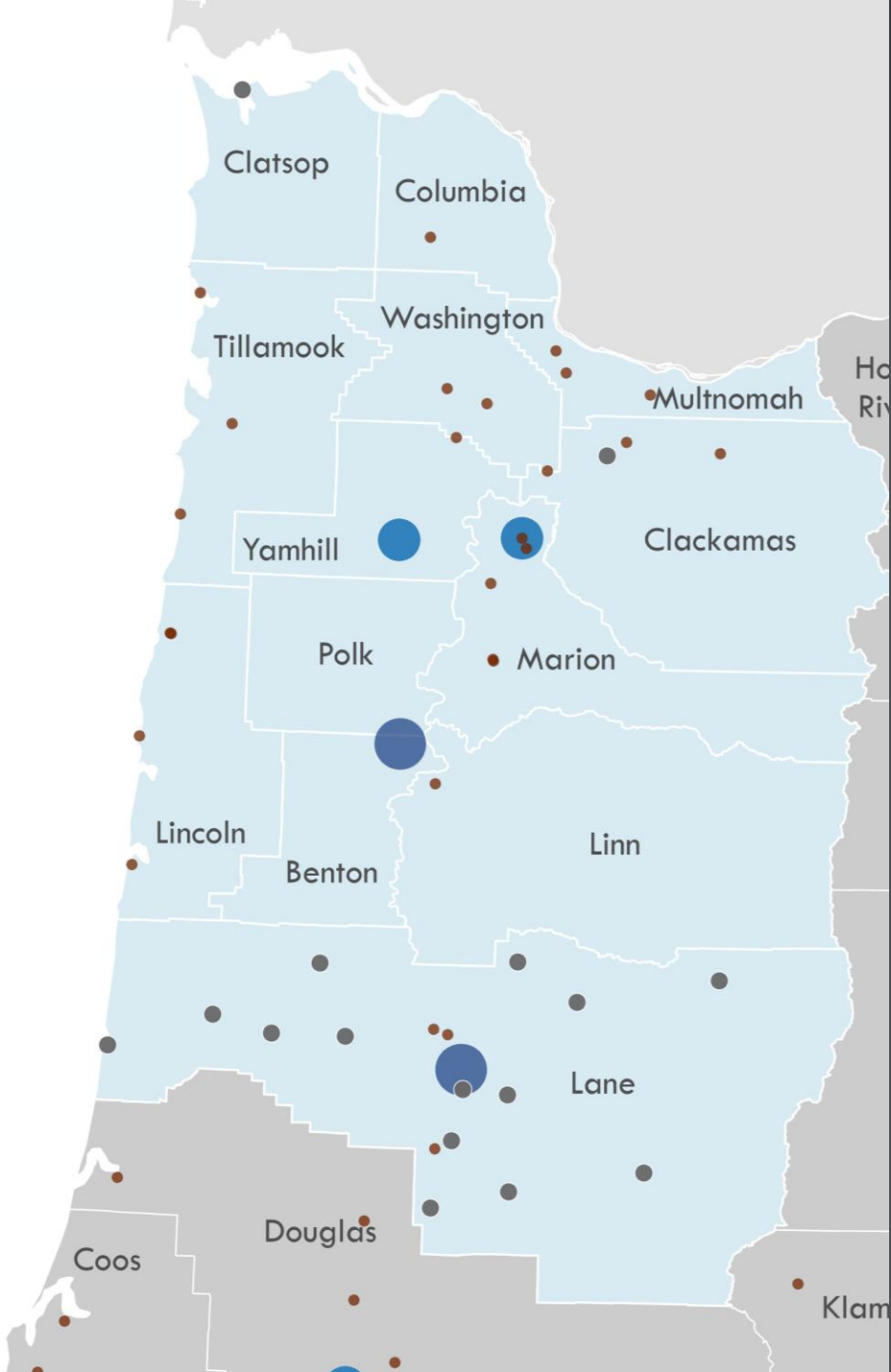




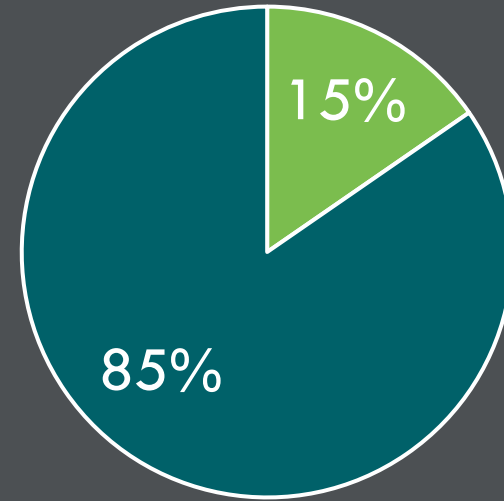
# DISPOSAL

- **3.7 Million Tons of Municipal Solid Waste Disposed of in 2022**
- **1,724 pounds per person per year**

# REGIONAL DISPOSAL INFRASTRUCTURE



## Number of Municipal Landfills

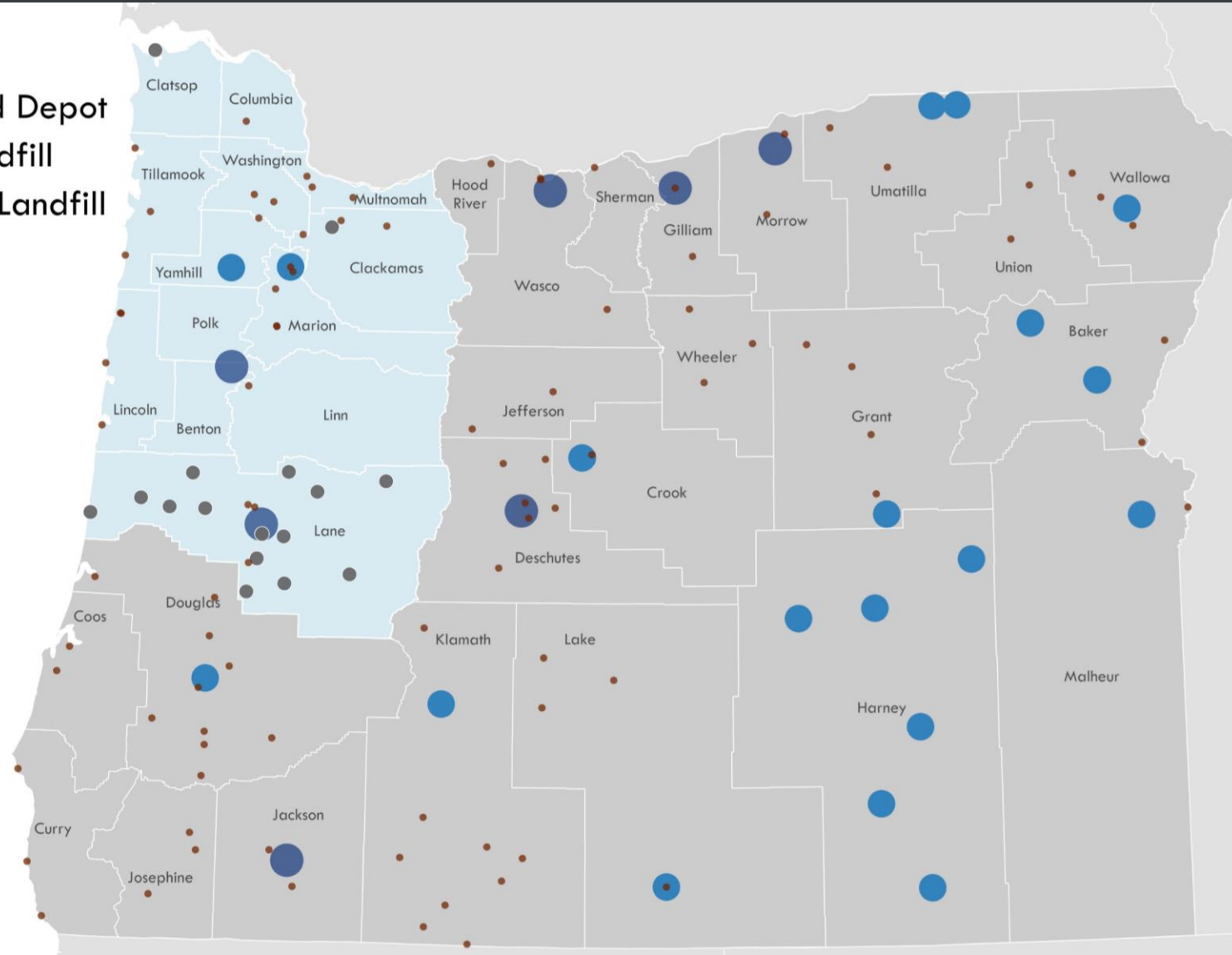


■ In Region   ■ Out of Region

Source: OR DEQ SWIFTA Database,

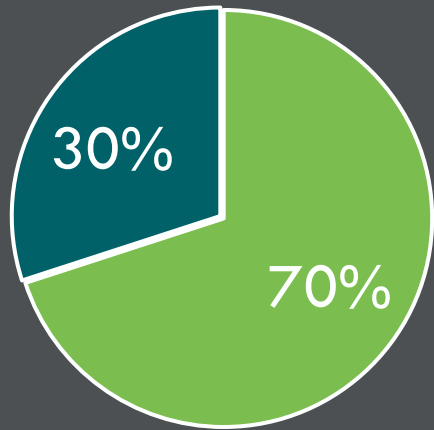
# STATEWIDE DISPOSAL INFRASTRUCTURE

- Transfer Station
- Transfer Station and Depot
- Local Municipal Landfill
- Regional Municipal Landfill

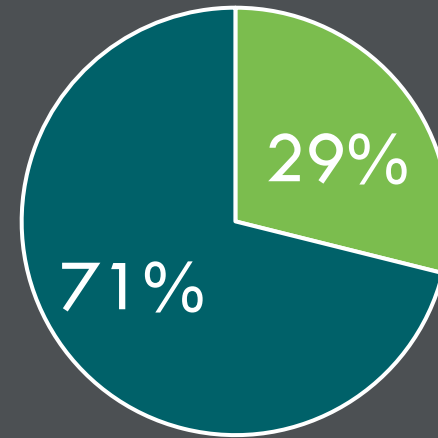


# DISPOSAL: ORIGINS AND DESTINATIONS

Origin of Disposal



Destination of Disposal

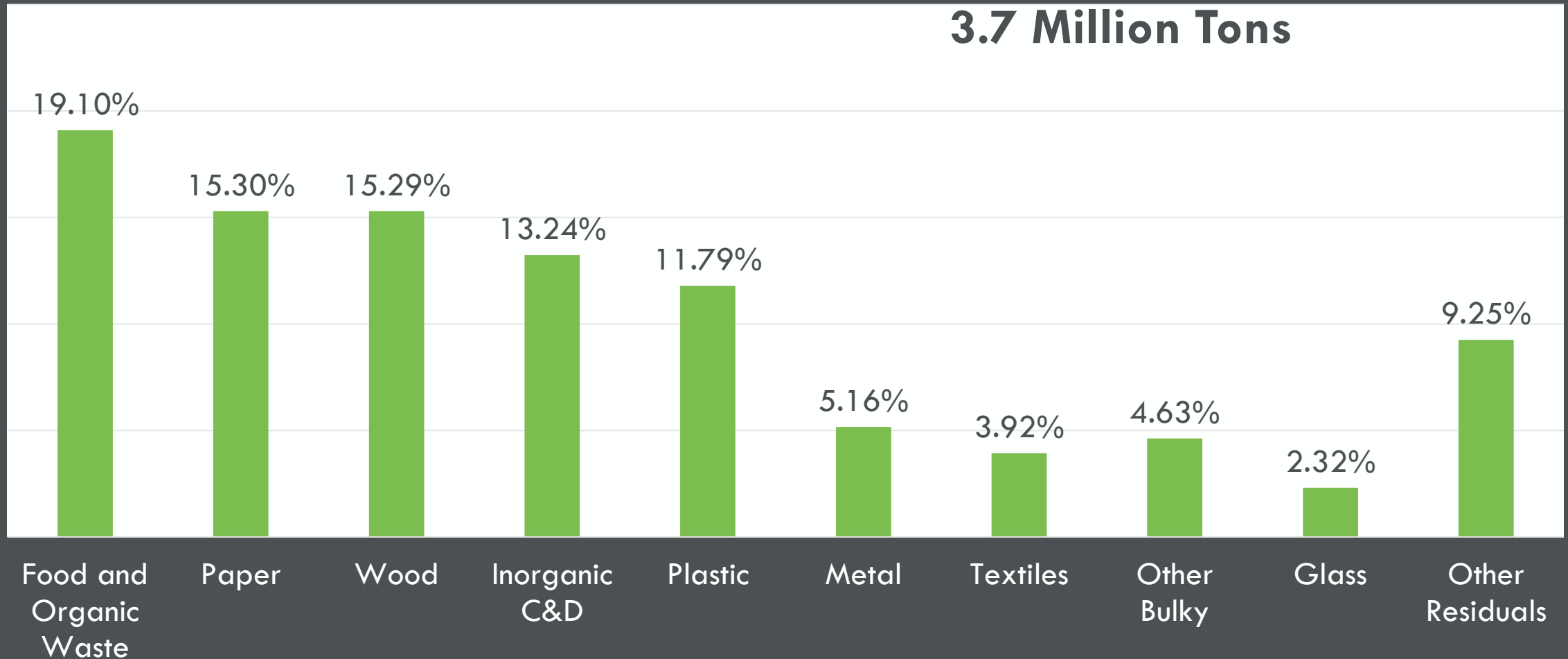


■ Region Total ■ Rest of State Total

# COMPOSITION OF MUNICIPAL DISPOSAL

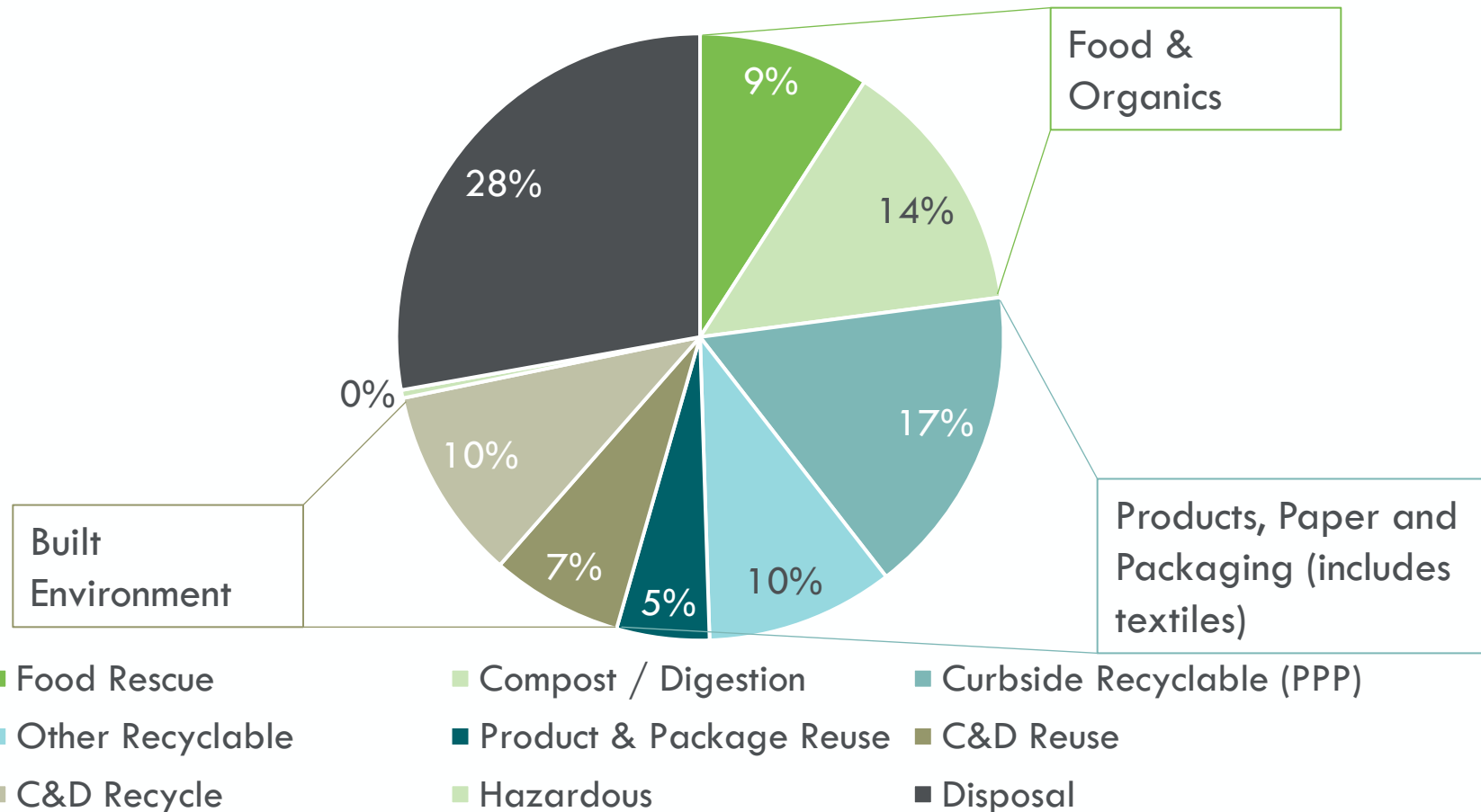
## Oregon Waste Composition

**3.7 Million Tons**



# POTENTIAL FOR ADDITIONAL RECOVERY OF DISPOSAL STREAM IN OREGON: DRAFT RESULTS

Highest Best Use Potential





# POTENTIAL FOR ADDITIONAL RECOVERY FROM MUNICIPAL DISPOSAL: DRAFT RESULTS

**72% of Disposed  
Municipal Solid  
Waste Could be  
Recovered**



Recycling	36.90%
Rescue / Reuse	21.07%
Composting/Digestion	13.80%

# JOB CREATION AND WASTE DIVERSION

	DIVERTED WASTE					DISPOSED WASTE		
	Collection 2008	Collection 2030	Processing	Manufacturing	Reuse/ Remanufacture	Collection	Landfill	Incineration
	Jobs per 1000 tons	Jobs per 1000 tons	Jobs per 1000 tons	Jobs per 1000 tons	Jobs per 1000 tons	Jobs per 1000 tons	Jobs per 1000 tons	Jobs per 1000 tons
<b>MATERIALS</b>								
<i>Paper &amp; Paperboard</i>	1.67	1.23	2.00	4.16	N/A	0.56	0.10	0.10
<i>Glass</i>	1.67	1.23	2.00	7.85	7.35	0.56	0.10	0.10
<b>Metals</b>								
<i>Ferrous</i>	1.67	1.23	2.00	4.12	20.00	0.56	0.10	0.10
<i>Aluminum</i>	1.67	1.23	2.00	17.63	20.00	0.56	0.10	0.10
<i>Other Nonferrous</i>	1.67	1.23	2.00	17.63	20.00	0.56	0.10	0.10
<i>Plastics</i>	1.67	1.23	2.00	10.30	20.00	0.56	0.10	0.10
<i>Rubber &amp; Leather</i>	1.67	1.23	2.00	9.24	7.35	0.56	0.10	0.10
<i>Textiles</i>	1.67	1.23	2.00	2.50	7.35	0.56	0.10	0.10
<i>Wood</i>	1.67	1.23	2.00	2.80	2.80	0.56	0.10	0.10
<i>Other</i>	1.67	1.23	2.00	2.50	N/A	0.56	0.10	0.10
<b>Other Wastes</b>								
<i>Food Scraps</i>	1.67	1.23	0.50	N/A	N/A	0.56	0.10	0.10
<i>Yard Trimmings</i>	1.67	1.23	0.50	N/A	N/A	0.56	0.10	0.10
<i>Misc. Inorganic Wastes</i>	1.67	1.23	0.50	N/A	N/A	0.56	0.10	0.10



# QUESTIONS

5 minutes: Questions about Materials Data and Infrastructure

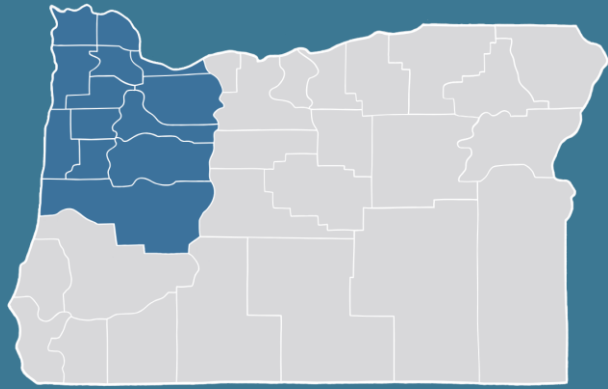
# LUNCH BREAK

- Enjoy lunch and networking!
- We will resume at 12:45pm

SMMP Project Information & Updates Webpage



<https://boc.bentoncountyor.gov/smm-task-force/>



## 2024 SMMP TASK FORCE

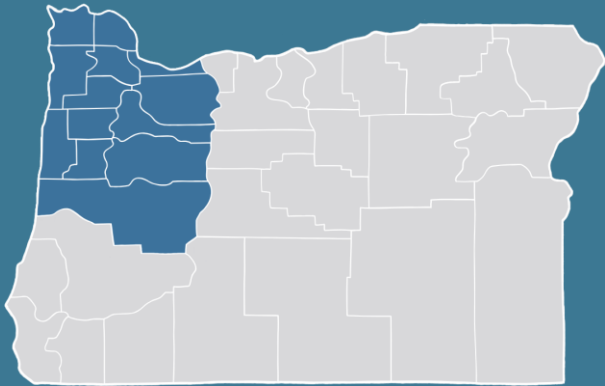
# CASE STUDY: CITY OF PORTLAND C&D



Lauren Zimmermann Onstad

Sustainable Building & Deconstruction Specialist

Portland Bureau of Sustainability



## 2024 SMMP TASK FORCE



# THE PORTLAND DECONSTRUCTION PROGRAM

City of Portland, Oregon

October 21, 2024

Sustainable Materials Management Planning – Benton County

**Lauren Zimmermann Onstad**

Sustainable Building and Deconstruction Specialist



THE BUREAU OF  
**PLANNING &  
SUSTAINABILITY**

**Support policies that reduce the embodied carbon of building materials and construction through the use of low-carbon alternatives, adaptive reuse...**

- B4, Climate Emergency Workplan

**Advocate for research-informed changes to codes and regulations to increase use of reused & deconstructed materials.**

- Goal 8.3, 2030 Regional Waste Plan

**Materials have a useful life after discard.**

– OR 2050 Vision for Materials Management





## Neighborhood Action vs. Developers





# Deconstruction Advisory Group (April 2015)

- Builders/Developers/Demo Contractors
- Neighborhood Groups
- Development Committee
- Historic Preservation
- Salvage/Deconstruction
- For-profit, non-profit, retailers
- Recycling Industry
- Permitting Staff
- Regional and County Gov Staff



# Market Opportunities

- Demand: wood waste  
hog fuel market drop
- Demand: salvage materials
  - Strong DIY / salvage ethic
  - Vintage aesthetic
- Supply: Established retail marketplaces

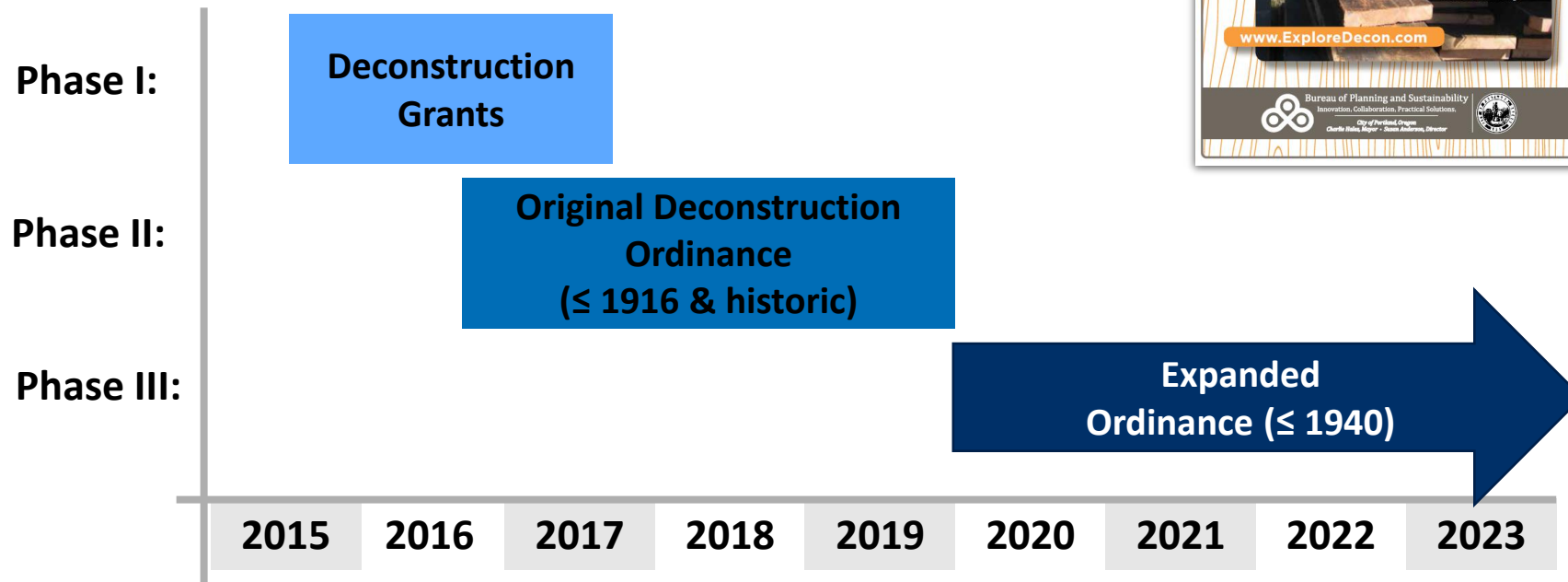


# Concerns with Required Deconstruction

Group	Concern	Solution
Developers	Cost	Competition, Grants
Developers	Time	Competition
Developers	Availability of Contractors	Contractor Training (BMRA)
Developers, Deconstructionists	Not all houses worthy	Exemptions
Neighborhoods	Maximize Salvage	Certified Decon Contractors (BMRA)
Neighborhoods	Avoid greenwashing	Certified Decon Contractors (BMRA)
Developers, Deconstructionists	Flooding material market	Year-Built Threshold
Deconstructionists	Workforce/hiring	Workforce Training (BMRA)

# Multi-Phased Approach to Deconstruction

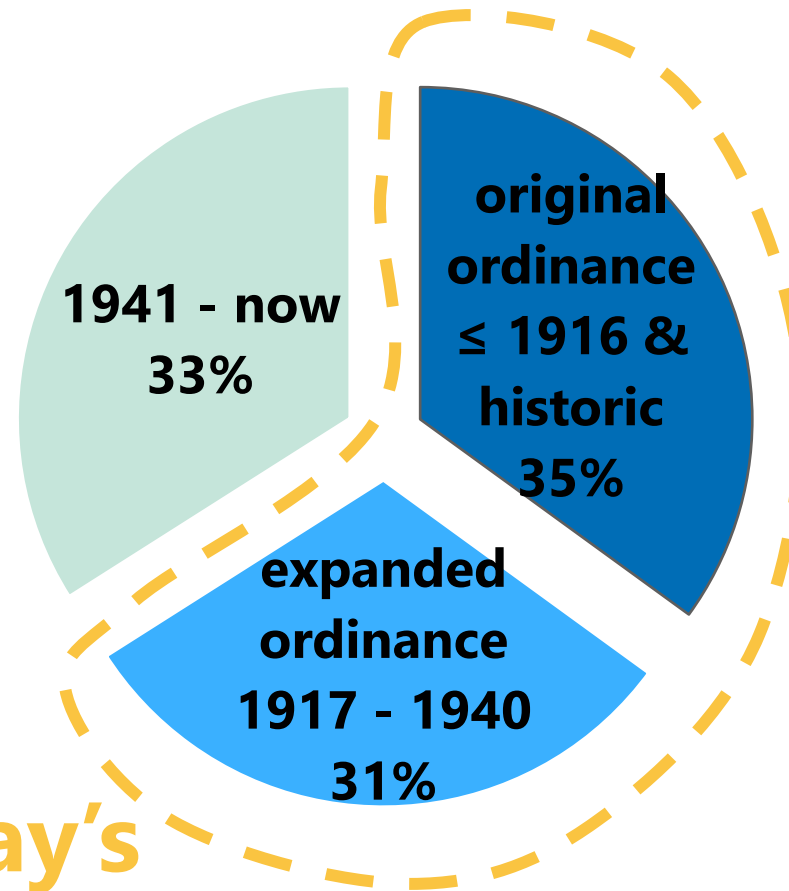
- Deconstruction grants: introduce and incentivize
- Requirements: grow over time
- Year-built specific: capture the right amount of permits



# Deconstruction Ordinance



House/Duplex  
Demolition  
Permits



Today's  
Ordinance



# Salvageable Materials

- #1: Lumber - including framing, trim, sheathing and siding
  - Doors and windows
  - Wood flooring
  - Roofing - including wood shake, metal, fiberglass, tile, masonry
  - Water heaters, furnaces, wood stoves
  - Kitchen and bathroom cabinets
  - Toilets – 1.6 gallon/flush or less
  - Hardware
- Appliances
  - Lighting
  - Sinks
  - Tubs
  - Mirrors





## Program Start-up and Admin



# Program Start Up Costs

- 1 full time employee
- Pilot project funds: \$50k for 16 projects (~\$3-5k each)
- Contractor training: \$15k for 3 days with contractors
- Workforce training: \$36k for 12 days with 20 trainees
- Yard signs

# Program Income

- Exemption requests (currently frequent): \$200 permit
- Violations (rare): \$500+





# Contractor Training (Before & After)

- Contractor Training (Pre-Ordinance July 2016)
  - 3-day training with Build Reuse
  - 16 participants
  - 12 different companies
  - Skills assessment
  
- Workforce Development (Post-Ordinance Mar 2017)
  - 12-day training (Build Reuse)
  - 15 students
  - Priority population



## Certification Requirements

- Complete Build Reuse's three-day Project Management Training Course.
- Pass a written exam taken online through Build Reuse.
- Pass a skills assessment conducted by the trainer.
- Obtain lead-paint RRP certification.
- Obtain AHERA Asbestos Inspector (min) credential.



# Certified Deconstruction Contractors

- Currently 15 companies
- 4 businesses dedicated to decon



# Contractor Admin

- Exemptions:
  - Unsafe or Hazardous Structure
  - Limited Reuse
- Recertification
- Post-Deconstruction Form
- Documentation of destination of salvaged materials
- Site Inspections

IMG\_2209.JPG

Application Status: SUBMITTED ▾

submitted (selected)  
approved  
check sheet  
cancelled

New Tonnage: [input field] SAVE

Salvage Type: SOLD ▾

File name...  
accepted file typ

SUBMIT CANCEL

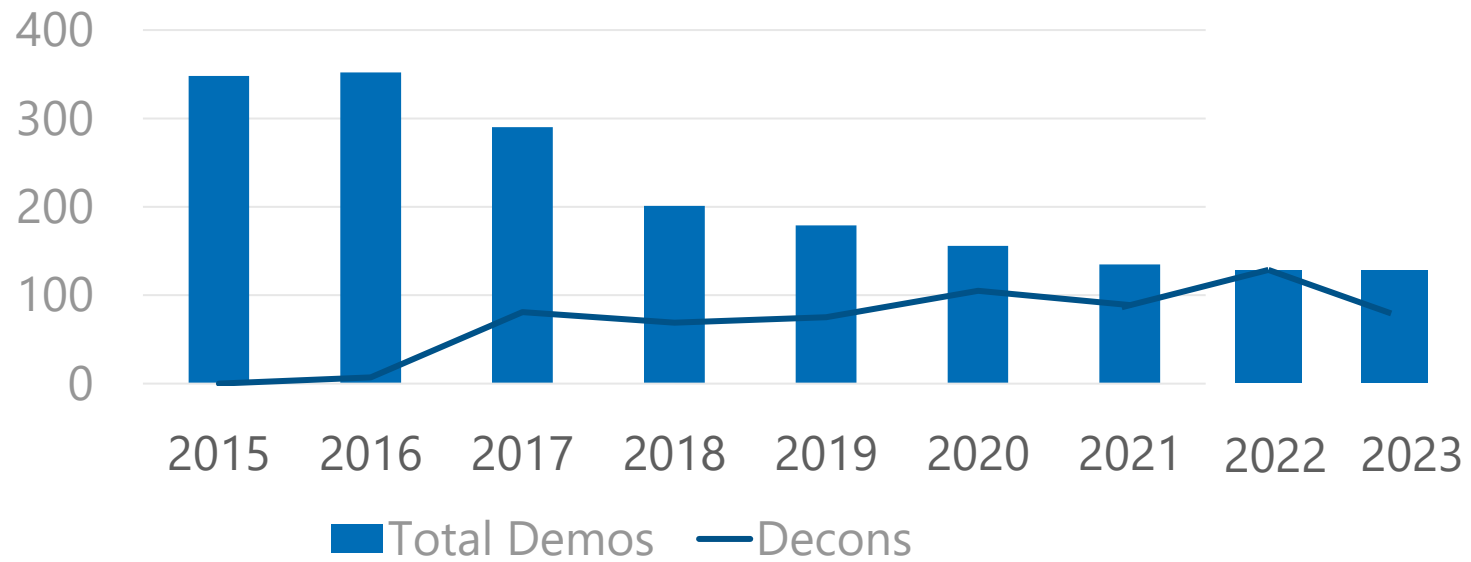


source: Sankofa Lumber

## Impact



# Since 2015



# Benefits and Outcomes

- # of Projects through 6/2024
  - Over 600 house deconstructions
  - Over 4.2 million pounds of lumber recovered for reuse
  - Per house: 4 tons diverted, ~3,200 BF of lumber, 7.6 metric tons of CO<sub>2</sub>eq
- Economic
  - 30+ jobs in deconstruction, fabrication, retail
  - 3 new salvage retail locations
- Permitting
  - Cost of deconstruction has come down while mechanical demolition costs have increased
  - Turnaround timeframe – equal to demolition



# Benefits and Outcomes

- Hazardous materials
  - Deconstruction now best practice
  - New reqs for mechanical demo
- Preservation of built history
  - Craftsmanship
  - Materials
  - Old-growth lumber
- Excess to Access Program
  - Anti-displacement





# Unexpected Outcomes

- Rise and fall of salvage shops and decon contractors
- Sometimes cut-throat service competition that keeps service costs low but occasionally eliminates a decon business
- Cost now comparable due to additional demolition requirements cost going up
- Slightly faster permits
- How to feed the machine in low development cycles
- Yet to adopt salvage wood from Oregon Residential Structural code



# Corvallis Historic Project



# Opportunities to Partner and Innovate



## Oregon building trends:

- Mass timber
- Modular housing

# Takeaways

- Starting with incentives helps make a market, but don't step too far into the competitive market
- Pair deconstruction with workforce development and promote circular economy
- Promote buildings and reuse stores as material banks for resiliency
- Inventory your community assets
- Quit it with all the glues



# Links

## Portland Deconstruction

<https://www.portland.gov/bps/climate-action/decon>

## DEQ Study

**Deconstruction vs. Demolition: An evaluation of carbon and energy impacts from deconstructed homes in the City of Portland**

<https://www.oregon.gov/deq/FilterDocs/DeconstructionReport.pdf>

## City of Portland Embodied Carbon

<https://www.portland.gov/bps/climate-action/embodied-carbon>

## Build Reuse

<https://www.buildreuse.org/>





## THE BUREAU OF **PLANNING** & **SUSTAINABILITY**

### **Lauren Zimmermann Onstad**

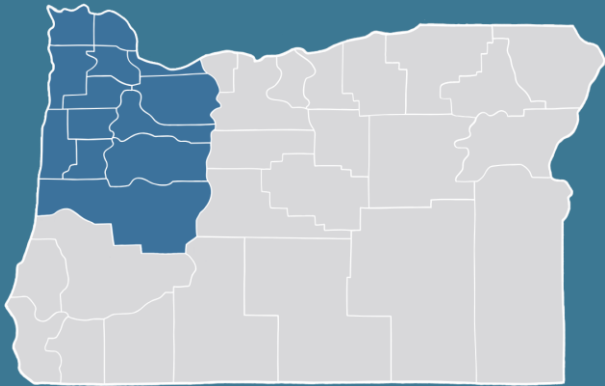
Sustainable Building and Deconstruction Specialist  
lauren.zimmermann@portlandoregon.gov

**VISIT US ONLINE** [portland.gov/bps](https://portland.gov/bps)

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Traducción e Interpretación | Biên Dịch và Thông Dịch | अनुवादन तथा व्याख्या | 口笔译服务 | Устный и письменный перевод |  
Turjumaad iyo Fasiraad | Письмовий і усний переклад | Traducere și interpretariat | Chiaku me Awewen Kapas | 翻訳または通訳 |  
ການແປພາສາ ຫຼື ການອະທິບາຍ | الترجمة التحريرية أو الشفهية | [Portland.gov/bps/accommodation](https://portland.gov/bps/accommodation)

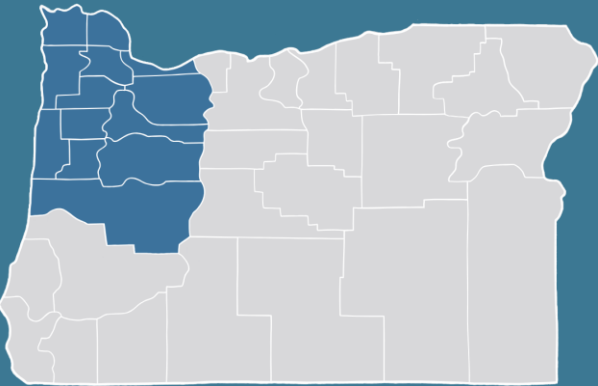
# CASE STUDY: ST. VINCENT DEPAUL



## 2024 SMMP TASK FORCE



Terry McDonald  
Emeritus Director  
St. Vincent de Paul

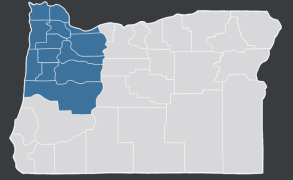


# 2024 SMMP TASK FORCE

## DISCUSSION: TOWARDS A REGIONAL SUSTAINABLE MATERIALS MANAGEMENT FRAMEWORK



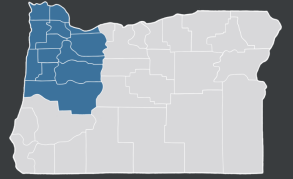
# KEY QUESTIONS



Considerations throughout the discussion...

- What Can Be Accomplished to Develop that Framework in the Next 9 Months to Establish a Regional Sustainable Materials Management Action Framework?
- What does a Regional Sustainable Materials Management Action Framework look like over the Next 3-5 Years?

# DEVELOPING A REGIONAL SOLUTION



- Economic Development Opportunities
  - **HOW CAN THE SMMP IMPACT JOB CREATION AND NEW BUSINESSES?**
- Accessible and Equitable Systems
  - **HOW DOES THE SMMP BENEFIT PEOPLE LIVING IN OUR REGION AND CREATE ACCESSIBLE SYSTEMS?**
- Policy & Legislation
  - **HOW CAN POLICY BE USED AS A LEVER TO DRIVE CHANGE?**
- Systems Based Approach
  - **HOW CAN WE MANAGE ALL THE "STUFF" THAT COMES THROUGH THE SYSTEM?**



< Activities



Visual settings

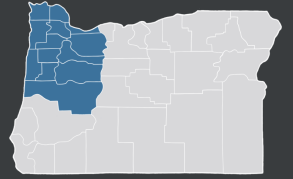


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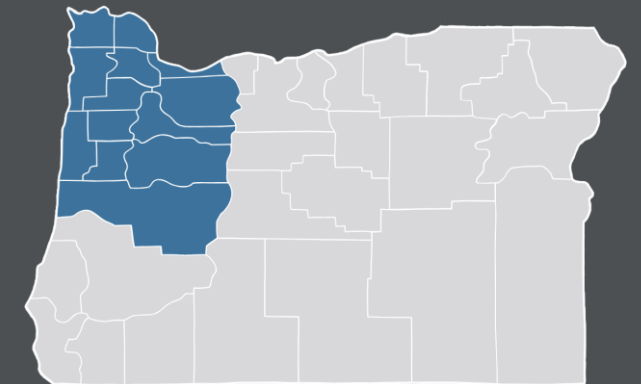


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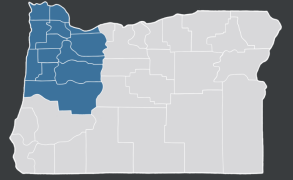
# ACTIVITY: MAPPING A REGIONAL SOLUTION



- Groups of 3-4 Task Force Members; Groups of 5-6 Guests
- 5 minutes: discussion on elements that you would like to see built into Regional Sustainable Materials Management Plan.
  - **WHAT SHOULD BE INCLUDED TO ADDRESS MATERIALS MANAGEMENT CHALLENGES?**
  - **WHAT NEEDS TO BE ADDED OR CHANGED FROM THE EXISTING SYSTEM?**
  - **WHAT IS INCLUDED IN AN IDEAL SYSTEMS?**
- 15 minutes: Map, draw, write, or doodle what this the SMMP looks like.
- Don't worry, the word cloud will be displayed for inspiration.



# ACTIONS FOR A REGIONAL SOLUTION



- What can be accomplished to develop that framework in the next 9 months to establish a regional sustainable materials management action framework?
  - **WHAT CAN THIS GROUP DO TO ADDRESS MATERIALS MANAGEMENT CHALLENGES?**
  - **WHAT DOES A REGIONAL APPROACH LOOK LIKE?**
  - **WHAT IS INCLUDED IN AN IDEAL SYSTEMS?**
  - **WHAT CAN YOUR ORGANIZATION BRING TO THIS WORK?**
- What does a Regional Sustainable Materials Management Action Framework look like over the Next 3-5 Years?

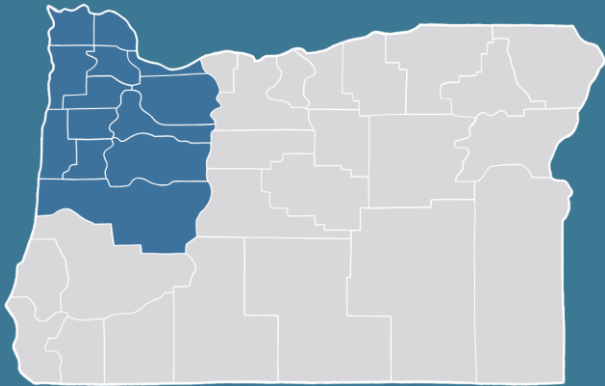
# NEXT STEPS FOR SMMP TASK FORCE

## Task Force Meetings

- January
- March
- May

## Subcommittees

## Additional RRS Research



# 2024 SMMP TASK FORCE

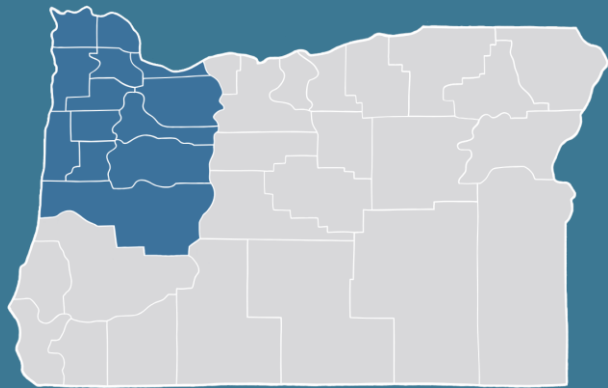


# THANK YOU FOR YOUR TIME & EXPERTISE!

SMMP Project Information & Updates Webpage



<https://boc.bentoncountyor.gov/smm-task-force/>



## 2024 SMMP TASK FORCE