

2024 SMMP TASK FORCE

RRS: PERSPECTIVES ON OUR REGIONAL MATERIALS MANAGEMENT SYSTEM

PERSPECTIVE ON NW OREGON REGIONAL MATERIALS MANAGEMENT SYSTEM

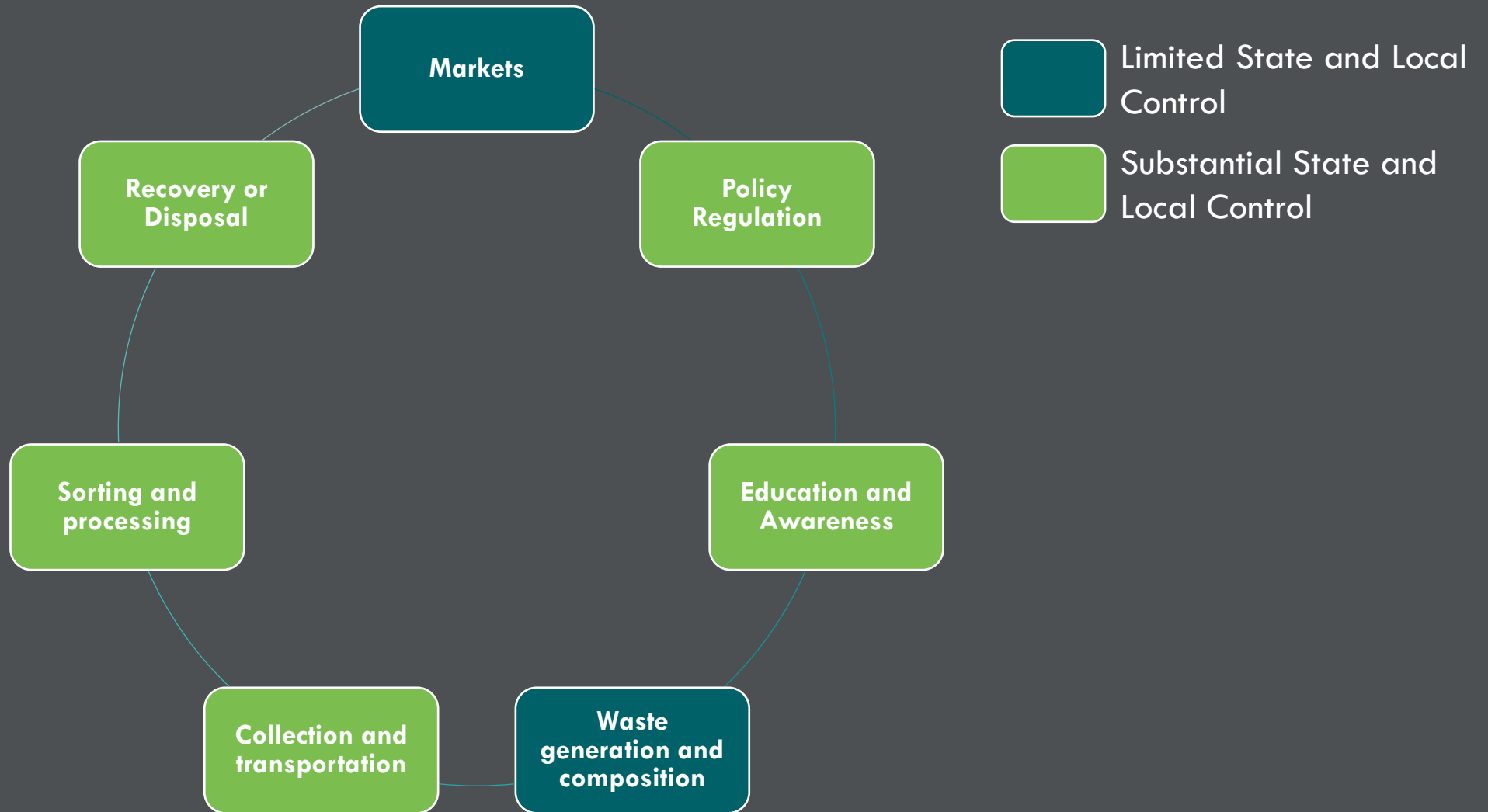
Elements of the system

Evaluating system benefits and costs

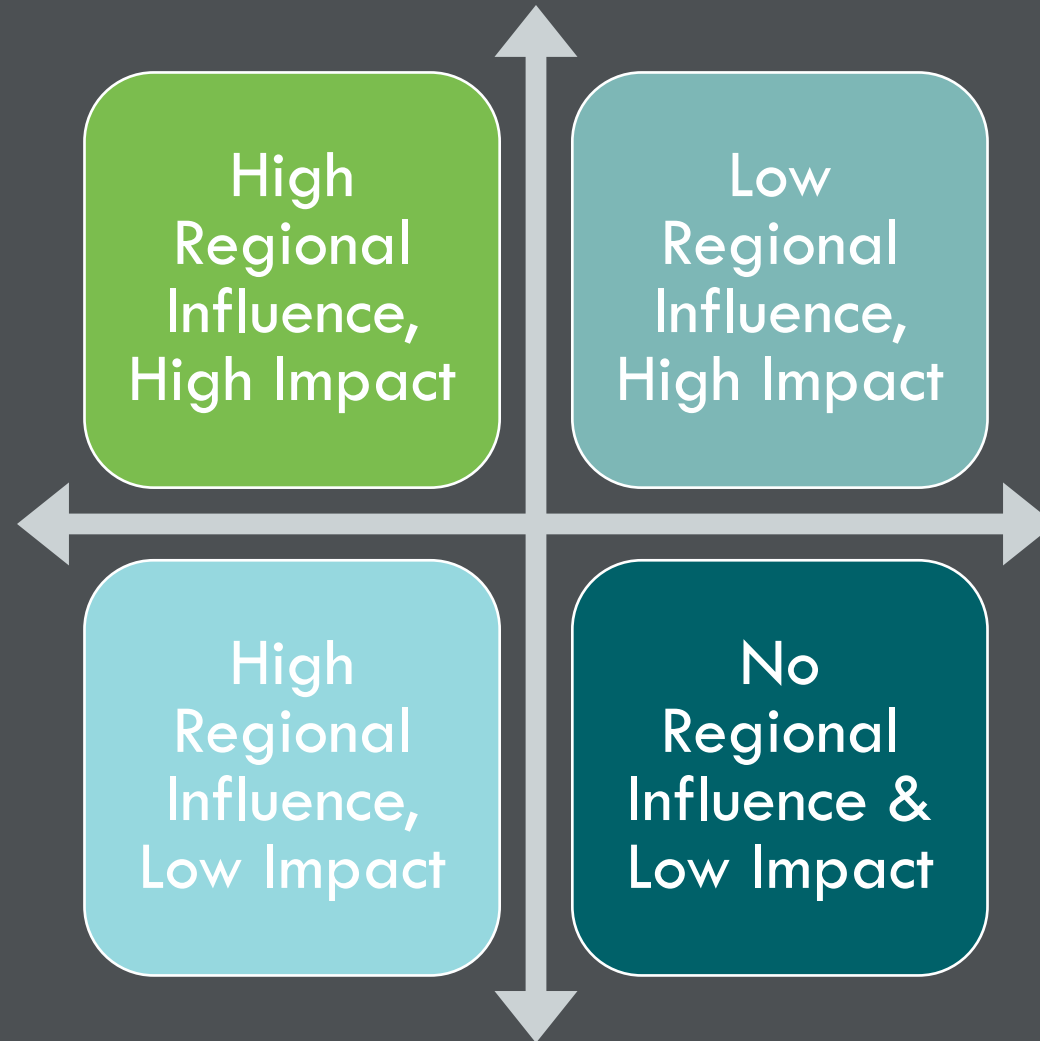
System status: policy

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

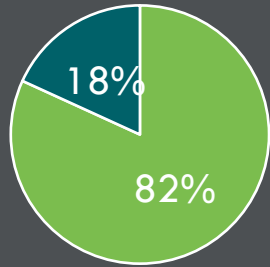
- Lifecycle impacts
- Associated climate emissions
- Water quality
- Air quality

Social and Human Health Factors

- Worker safety
- Toxics
- Environmental justice

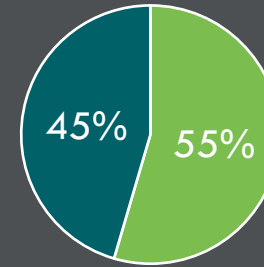
REGIONAL POLICY STATUS

Current Solid Waste Plan



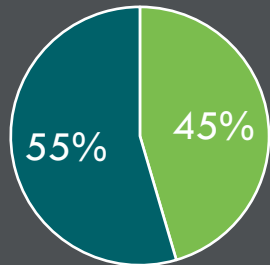
■ Wasteshed with plan/goal ■ No Plan/goal

Specific Waste Reduction Goals



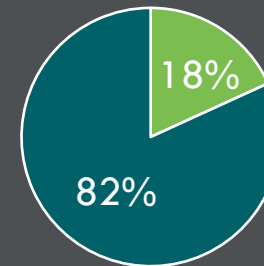
■ Wasteshed with plan/goal ■ No Plan/goal

Reuse Goals or Priorities



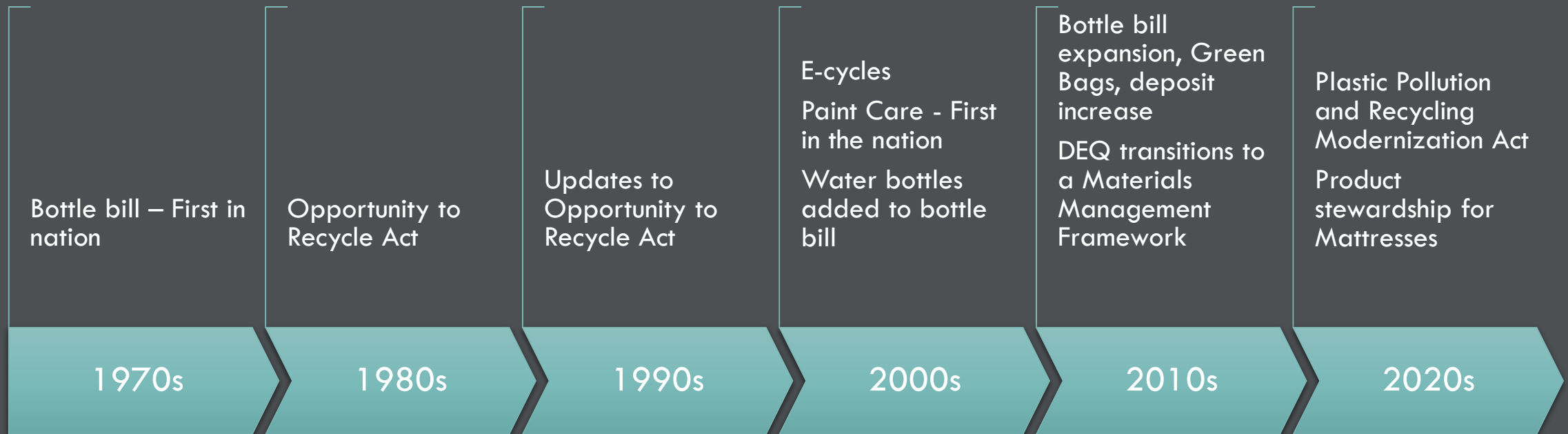
■ Wasteshed with plan/goal ■ No Plan/goal

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)

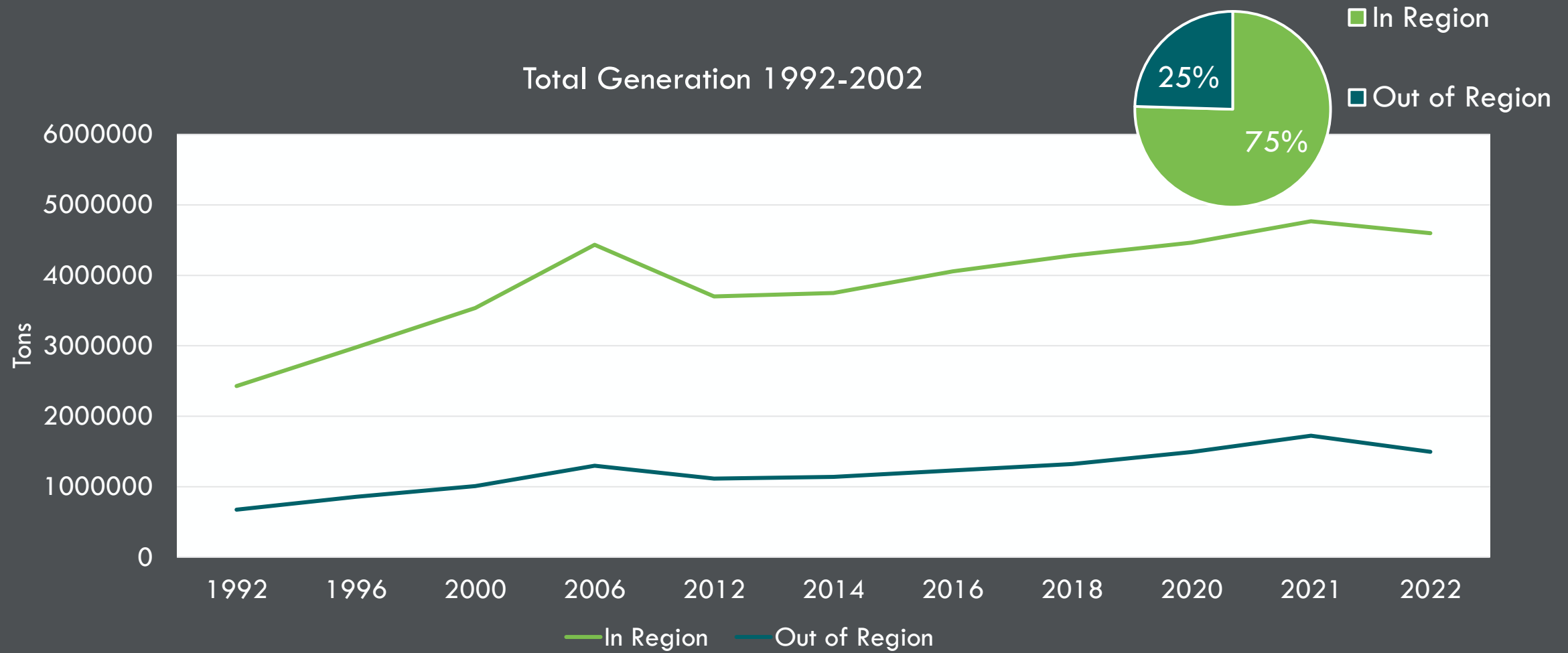
- Dramatically increase recovery/diversion



MATERIALS DATA AND INFRASTRUCTURE

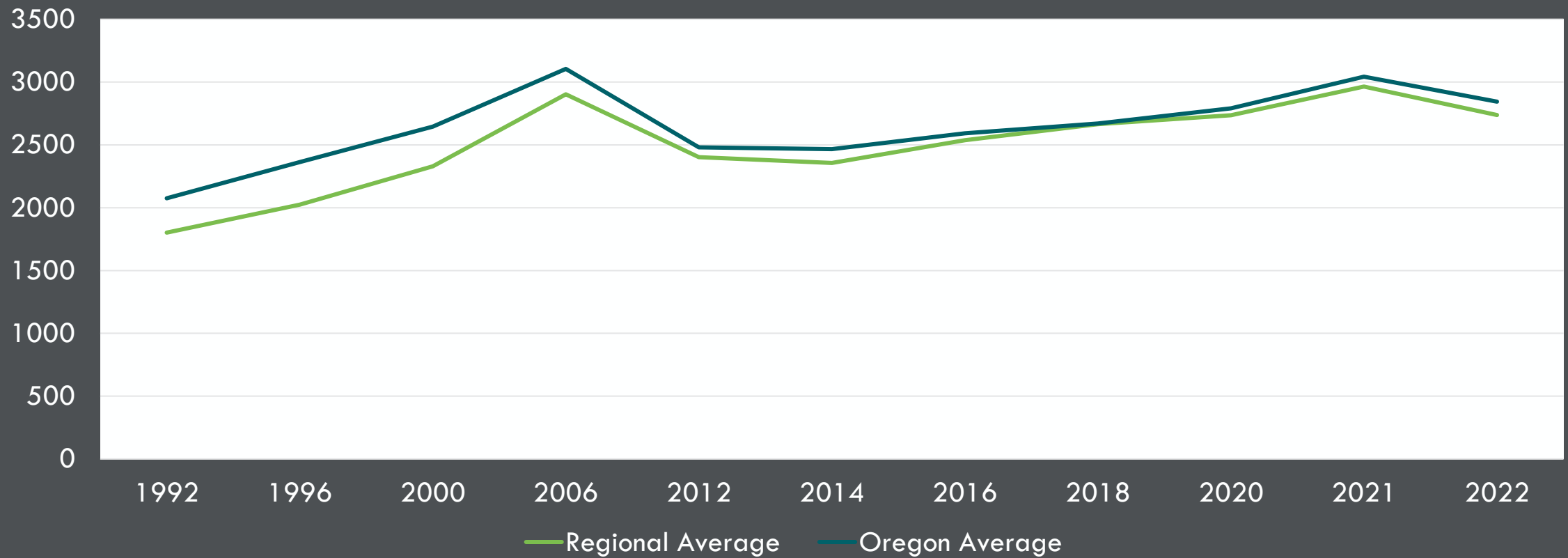
- Generation, Disposition and Composition
- Recycling Infrastructure
- Reuse Infrastructure
- Disposal Infrastructure
- Highest-best Use Potential

WASTE GENERATION



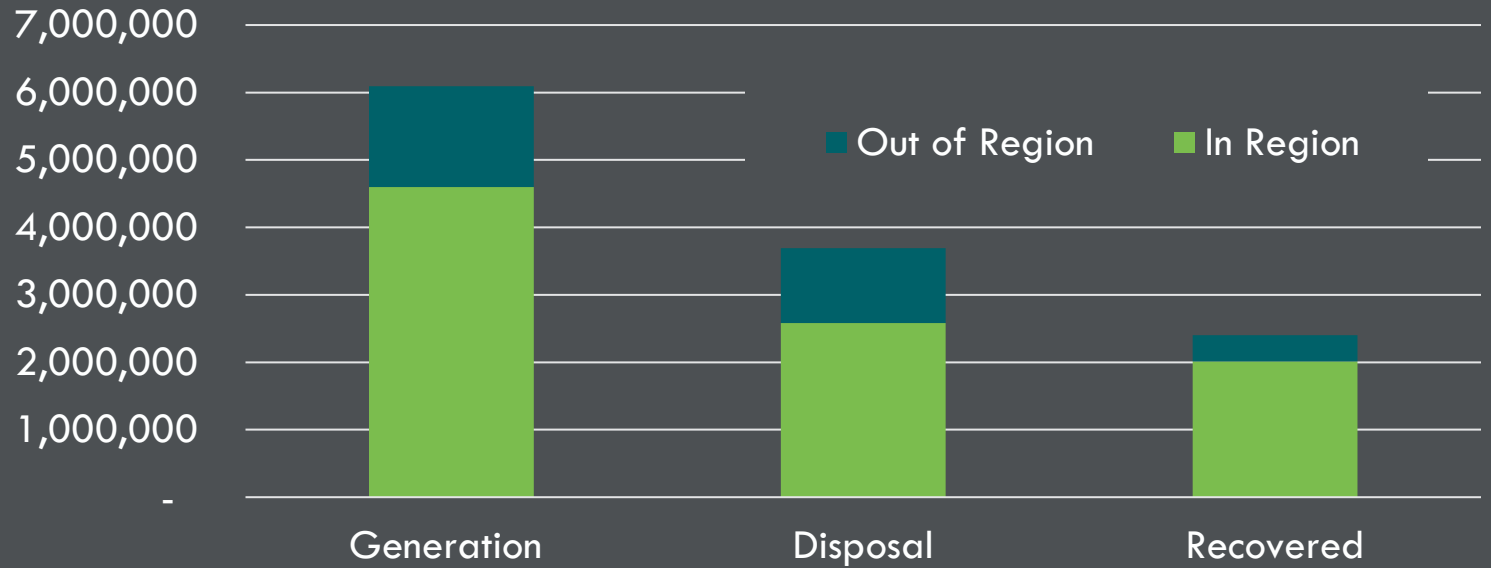
WASTE GENERATION PER CAPITA

Per Capita Waste Generation 1992-2022

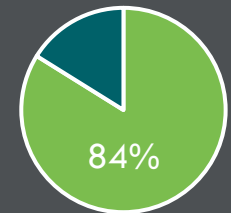
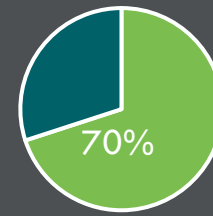
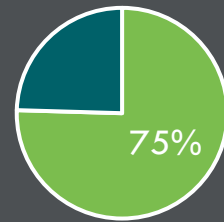




DISPOSITION OF WASTE (TONS)



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

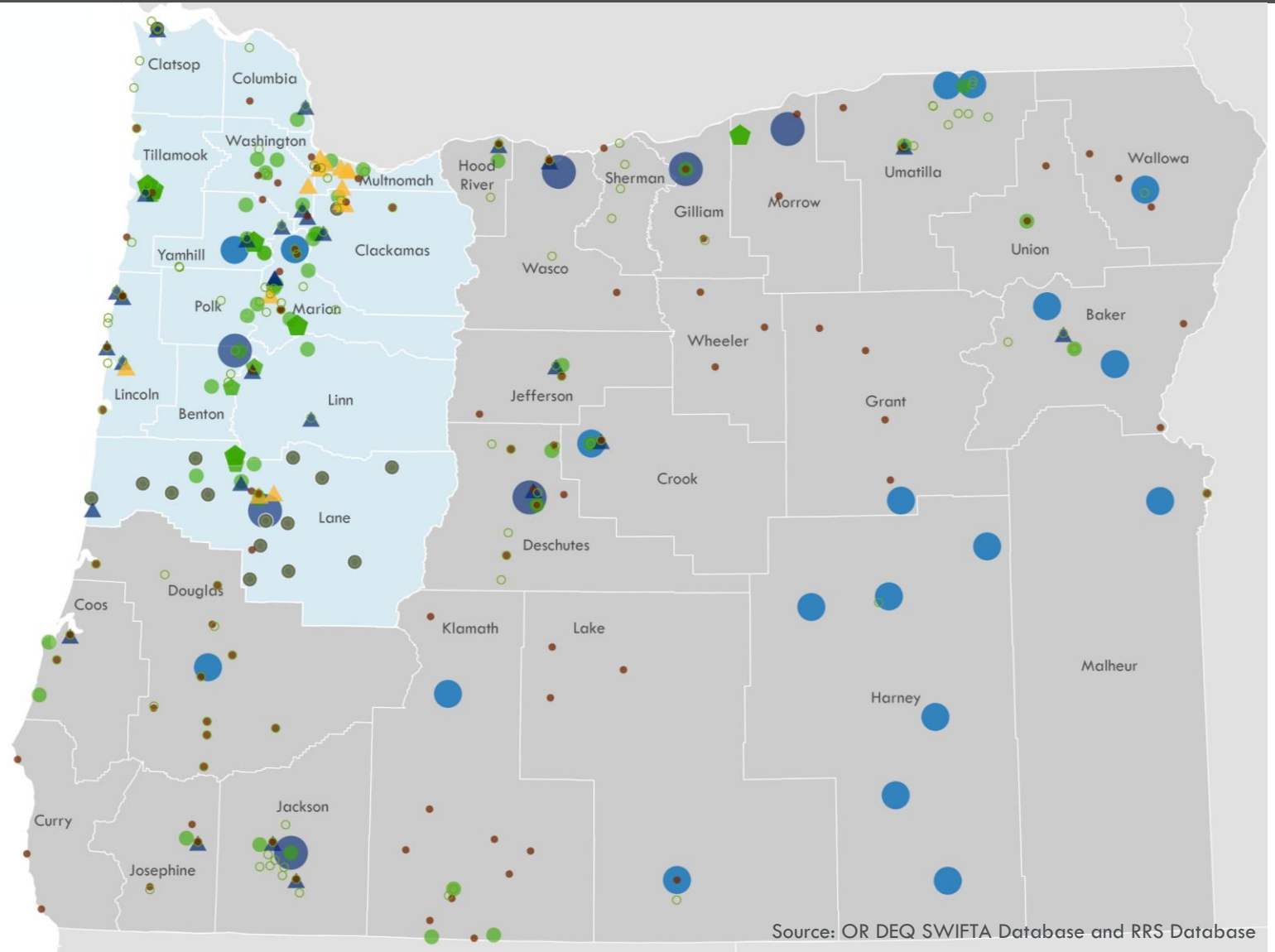


What about Reuse???



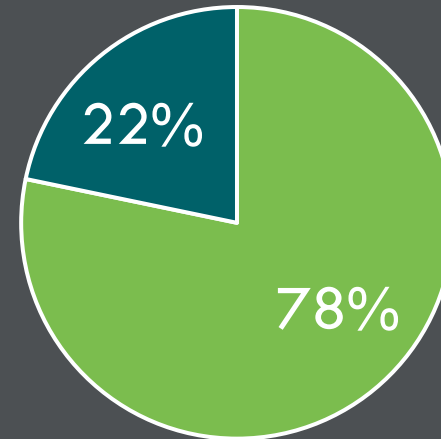
OREGON SOLID WASTE INFRASTRUCTURE

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



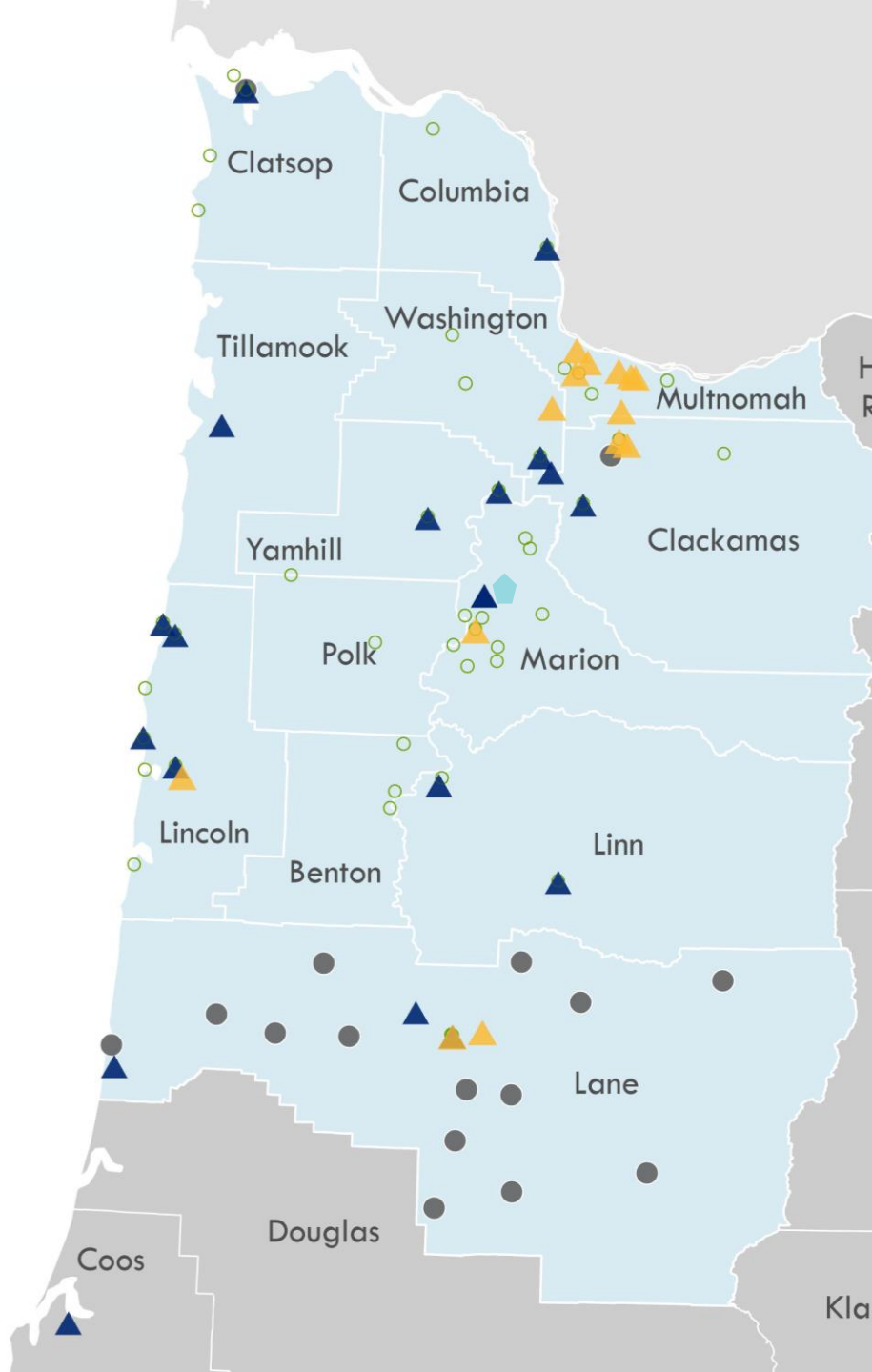
REGIONAL RECOVERY INFRASTRUCTURE: RECYCLING PROCESSING

Regional Share of Recycling



■ In Region ■ Out of Region

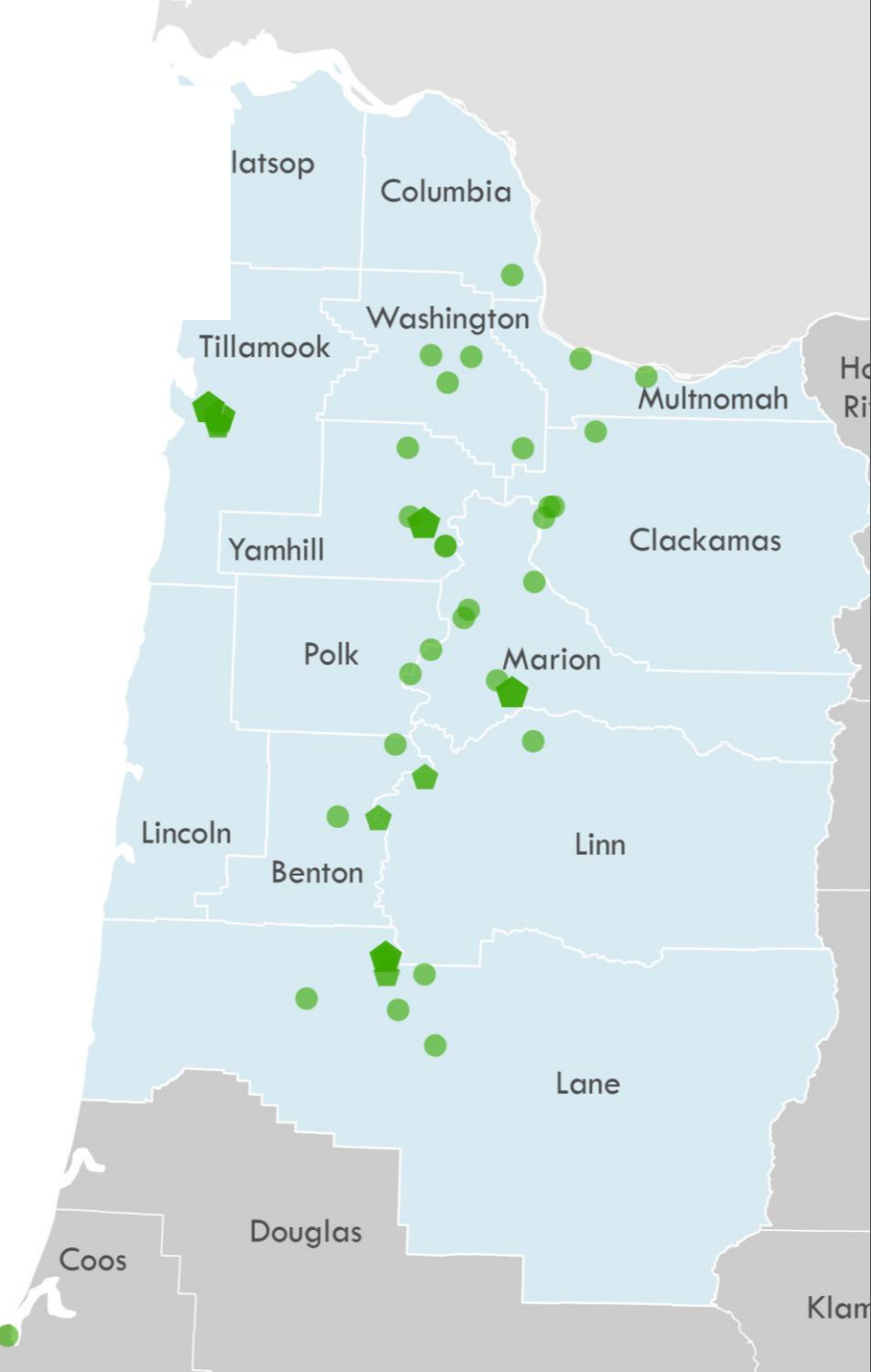
**All Recycling processing
(sorting) located in the Region**



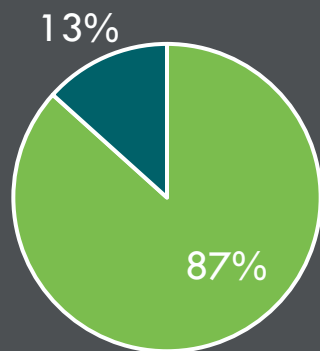
- Recycling Depot
- Transfer Station and Depot
- ▲ Recycling Reload
- ▲ Material Recovery
- ⬠ Waste to Energy

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

REGIONAL RECOVERY INFRASTRUCTURE: FOOD AND ORGANICS

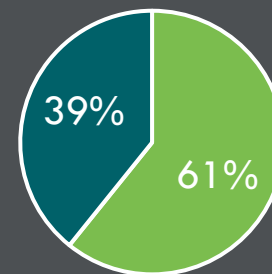


Regional Share of Composting

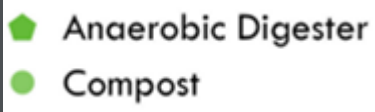


■ In Region ■ Out of Region

Compost & Anaerobic Digester Facilities



■ In Region ■ Out of Region

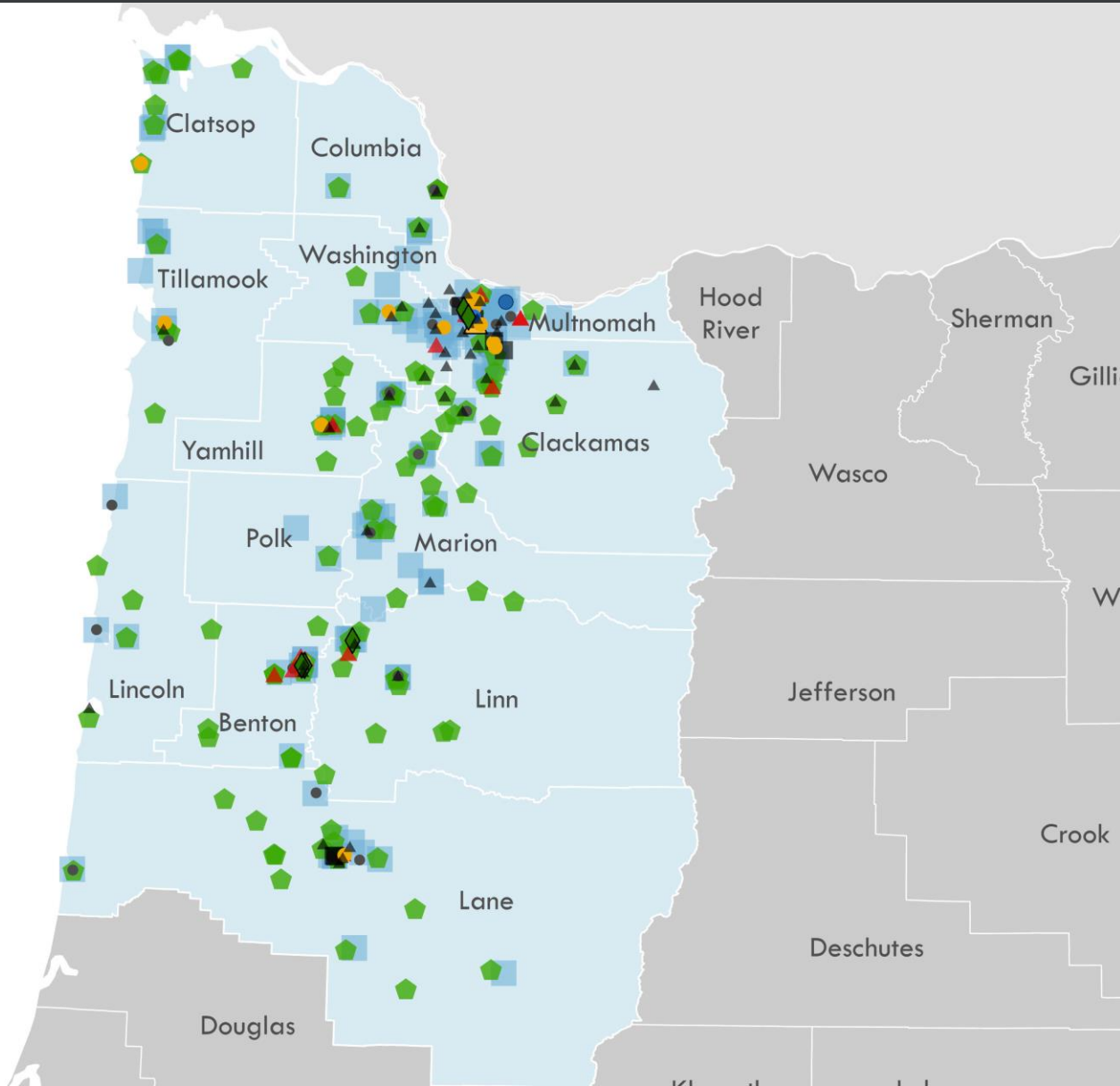


Source: OR DEQ SWIFTA Database, and RRS Facilities Database

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

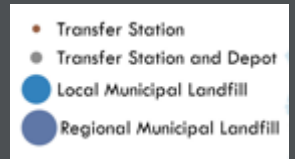
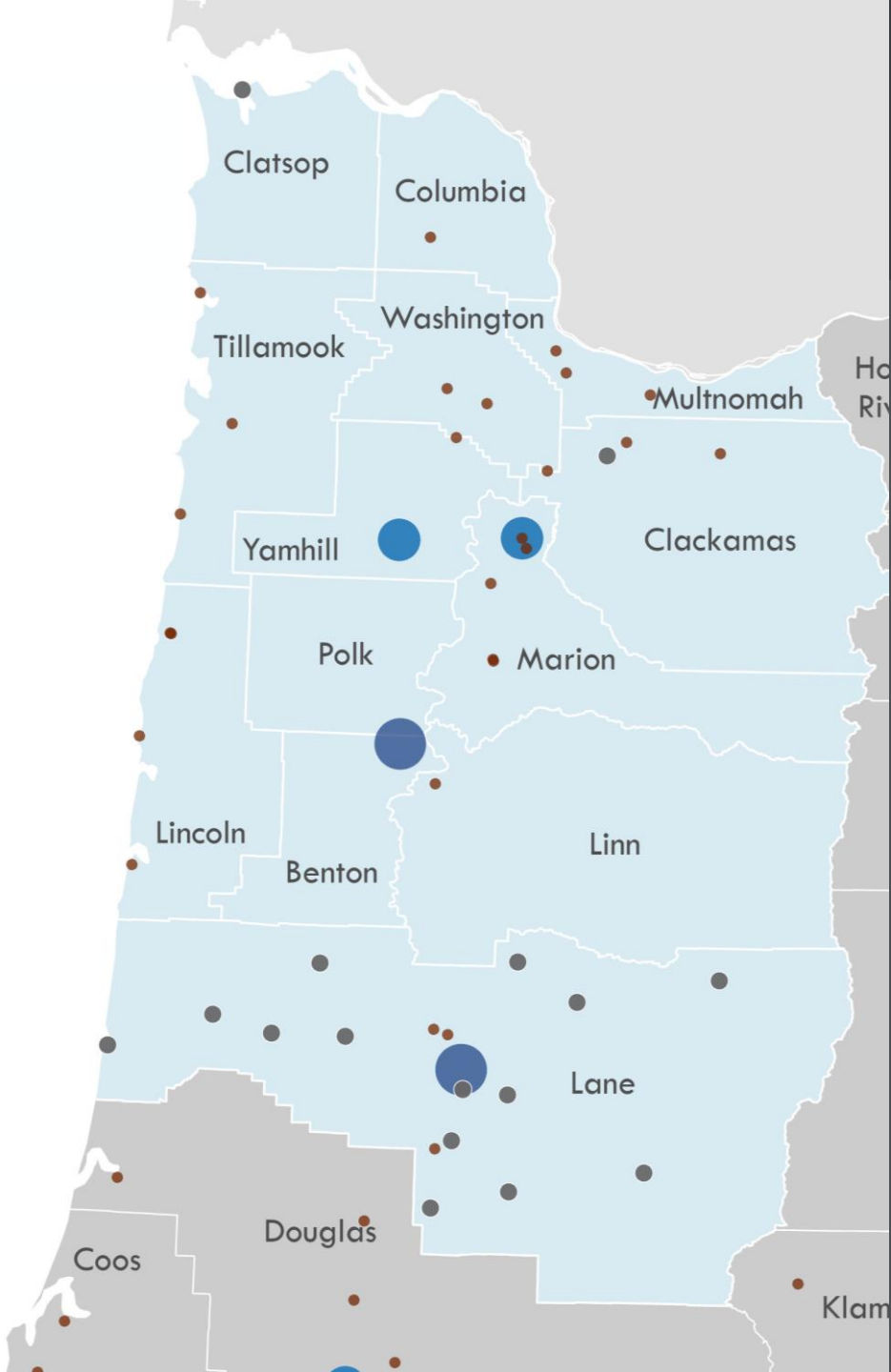




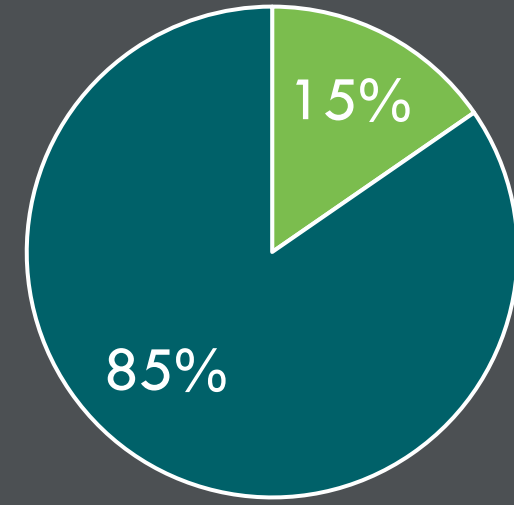
DISPOSAL

- **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

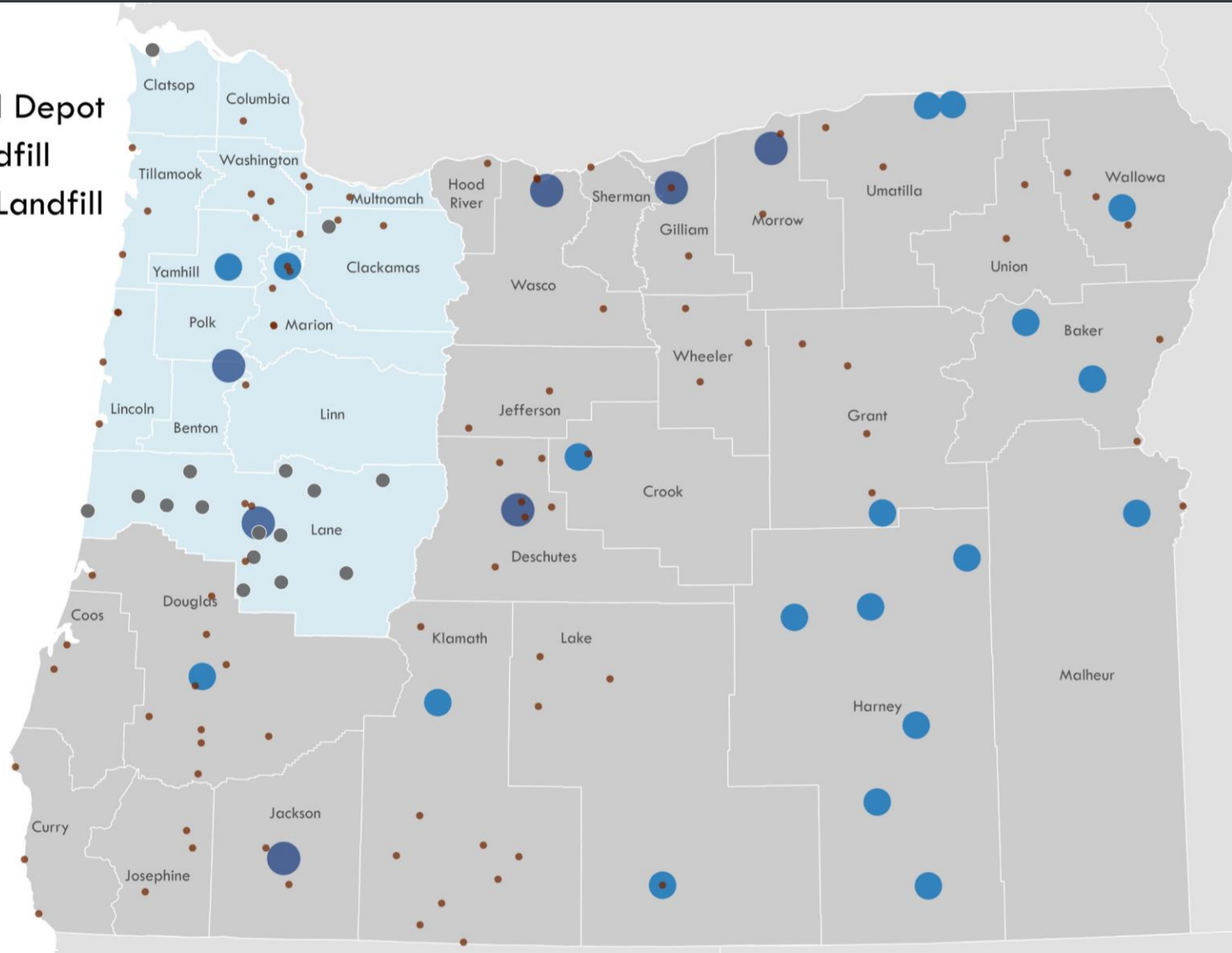


■ In Region ■ Out of Region

Source: OR DEQ SWIFTA Database,

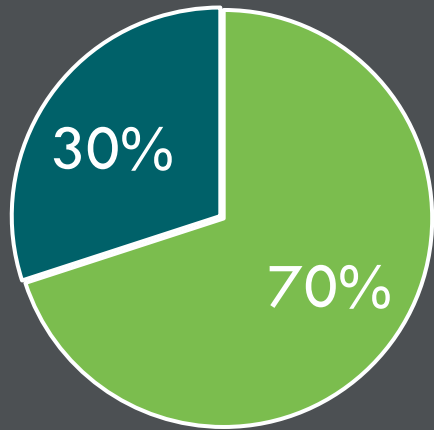
STATEWIDE DISPOSAL INFRASTRUCTURE

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

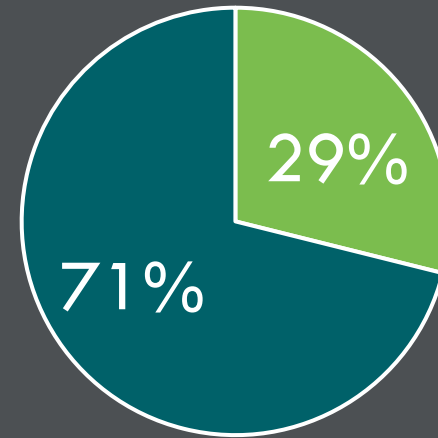


DISPOSAL: ORIGINS AND DESTINATIONS

Origin of Disposal



Destination of Disposal

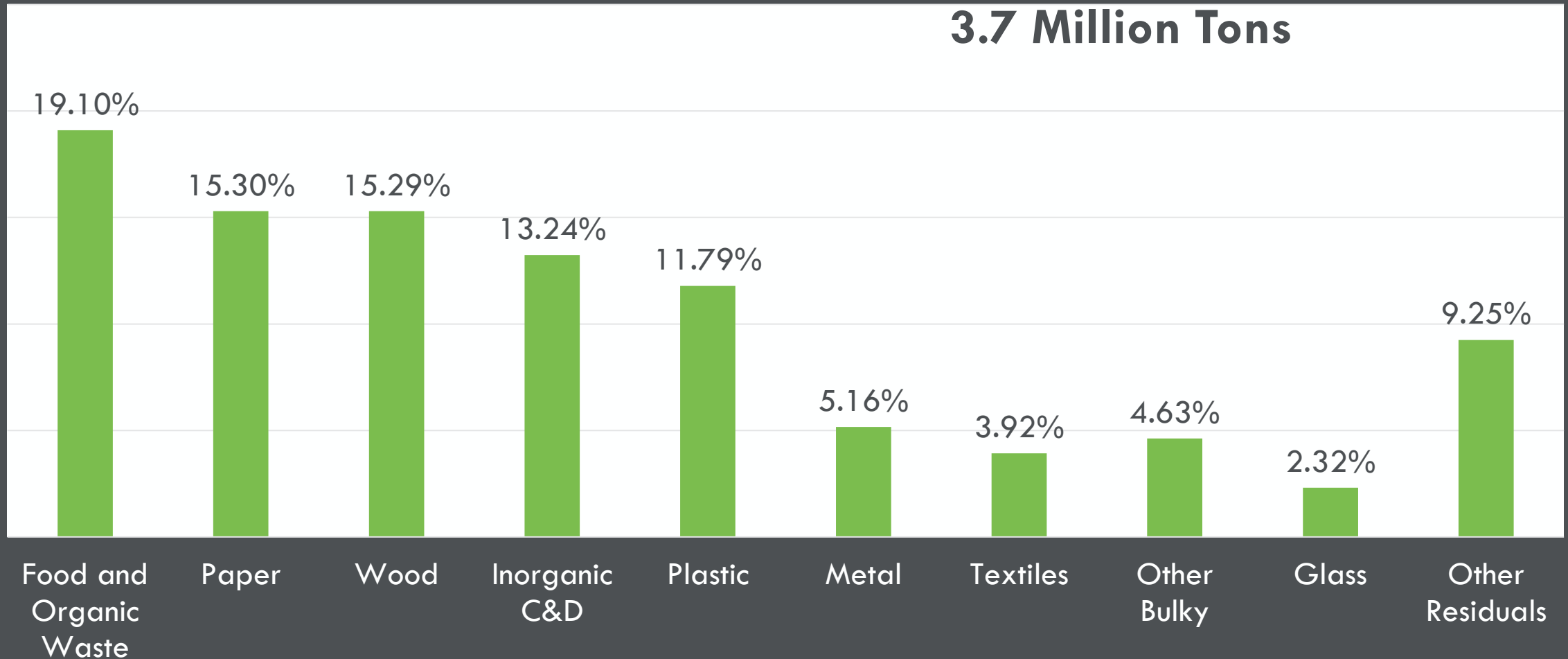


■ Region Total ■ Rest of State Total

COMPOSITION OF MUNICIPAL DISPOSAL

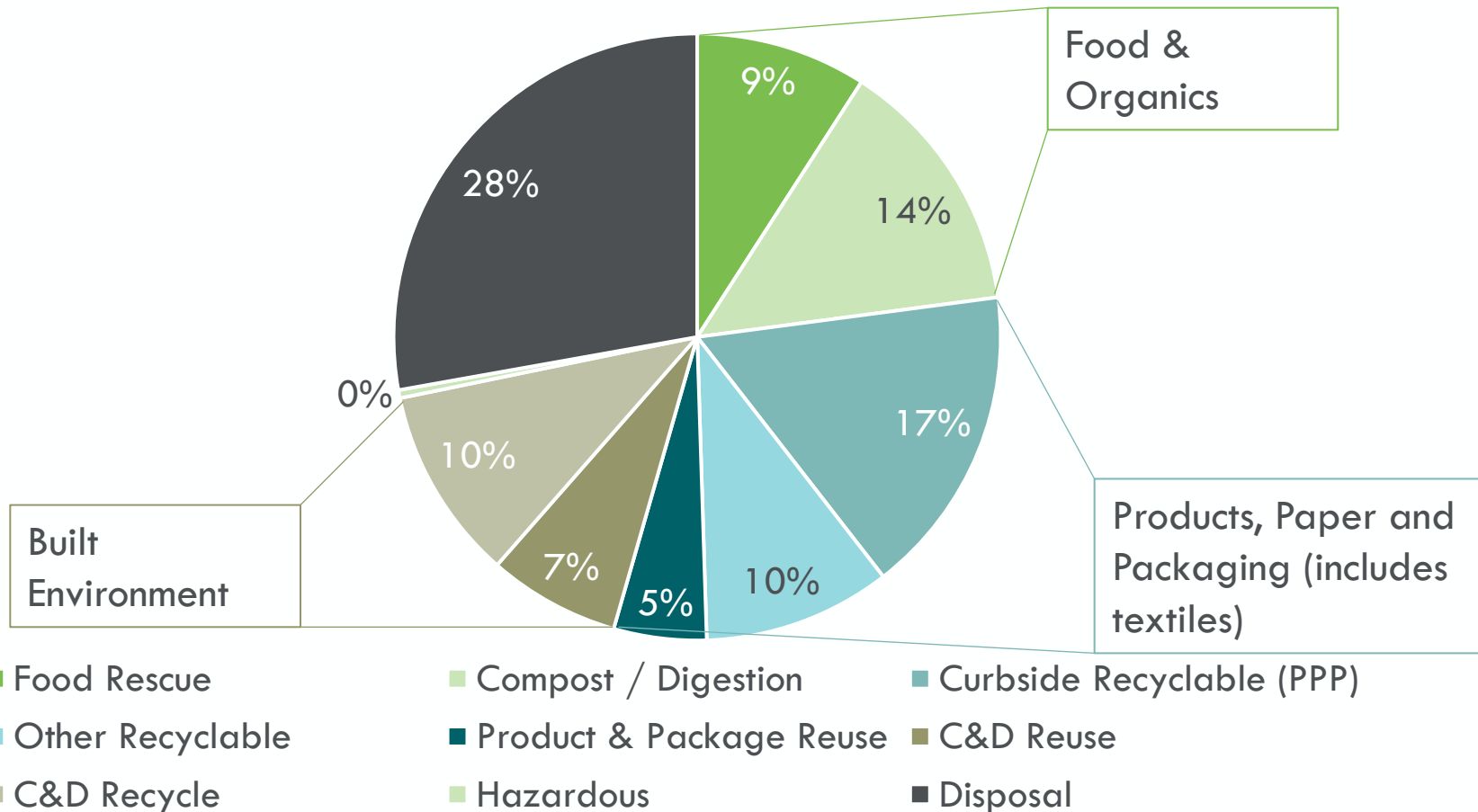
Oregon Waste Composition

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
MATERIALS								
<i>Paper & 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
Metals								
<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 & 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
Other Wastes								
<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