### **Agenda**

### **Solid Waste Advisory Committee**

May 25, 2022 | 9:30 am – 12:00 pm

Call to Order & Zoom Meeting Instructions 9:30 a.m. | 5 minutes | Troy Lautenbach (Chair) and Laurie Davies

New SWAC Member Introductions 9:35 a.m. | 10 minutes | Troy Lautenbach and Laurie Davies

Organic Materials Management – HB 1799 9:45 a.m. | 10 minutes | Julie Robertson, Department of Ecology

Reducing Methane Emissions from Landfills – HB 1663 9:55 a.m. | 20 minutes | Bill Harris, Department of Ecology

Recycling Development Center Update 10:15 a.m. | 15 minutes | Tina Schaefer, Department of Ecology

NextCycle Washington 10:30 a.m. | 30 minutes | Bryce Hesterman RRS Kamal Patel, Traversal Design

Waste Reduction, Reuse, and Repair Recommendations
11:00 a.m. | 45 minutes | University of Washington Evans School of Public Policy & Governance

Member Updates & Roundtable 11:45 a.m. | 15 minutes



### Welcome!

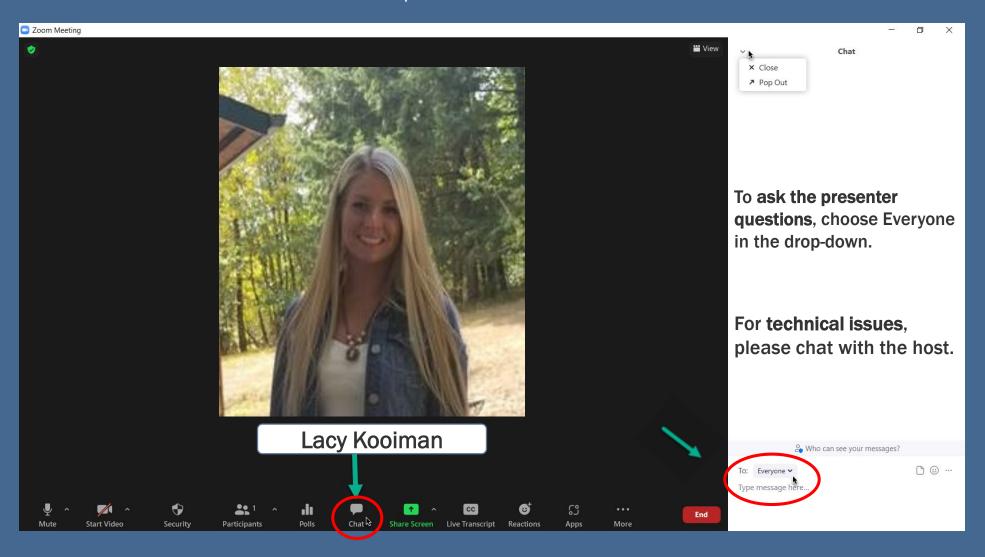
- Please keep your video off unless you are presenting this will help with internet connectivity.
- We are conducting sound tests before 9:30 am, if you cannot hear us please connect your audio:
- If you have technical issues, please use the chat box and we will help you troubleshoot:





# Participating in this meeting:

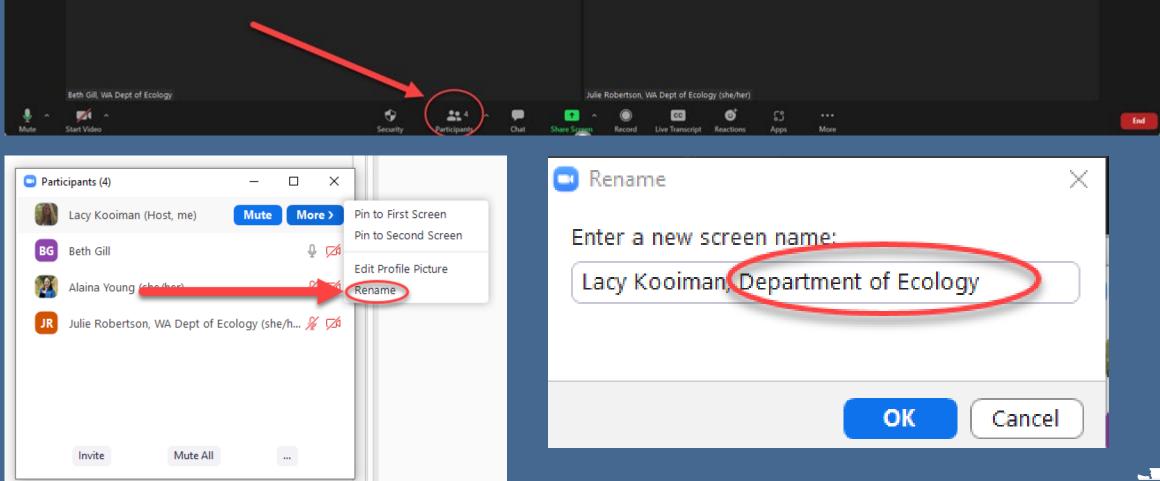
Please use the chat box to ask questions or make comments.





## Participating in this meeting:

Please add your organization next to your name by clicking "Participants", then "Rename".

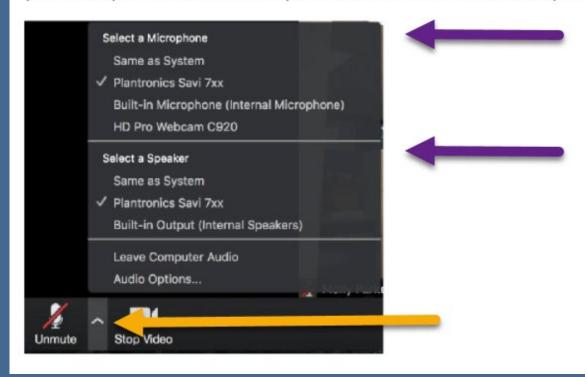




# **Audio Settings**

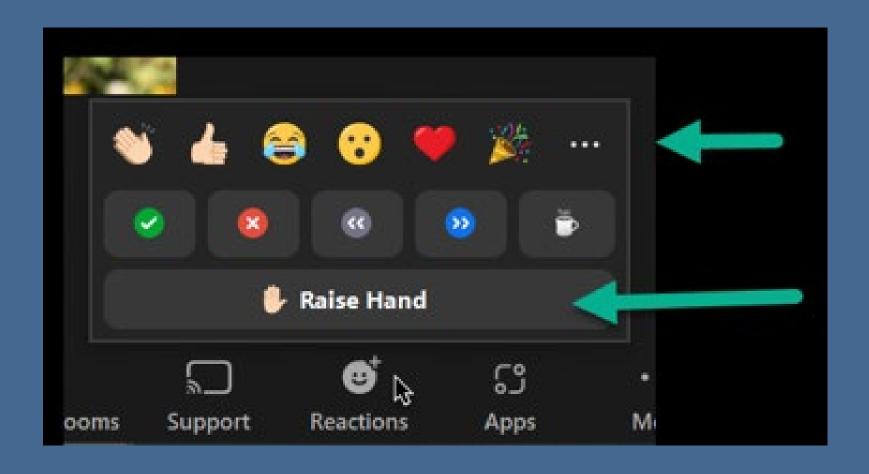
### Mute/Unmute & Audio Settings

You can mute and unmute your microphone. If you click on the arrow next to the mute button (bottom left main Zoom screen), you have additional options for audio settings. You can change your microphone, leave the computer audio or access the audio options.





# Raising Your Hand





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Troy Lautenbach



Laurie Davies

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ECOLOGY State of Washington

DEPARTMENT OF



**Troy Lautenbach** 



Laurie Davies





# **SWAC Member Introductions**



James Allen	TVI Inc./Savers/Value Village
Esther Beaumier	Tacoma Pierce County Health Department
Jay Blazey	Cedar Grove
Ray Byrne	Spokane Regional Health District
John Chelminiak	Waste Management
Holly Chisa	NW Grocery Association & Institute of Scrap Metal Recyclers
Amy Clow	Department of Agriculture
Laurie Davies	Department of Ecology
Ashley Evans	King County Hazardous Waste Management Program
Julie Gilbertson	City of Vancouver
Steven Gilmore	Republic Services
Kevin Green	Waste Connections Inc. LRI/Silver Springs Organics
Bryan Hunt	Northeast Tri-County Health District
Patti Johnson	Kittitas County Solid Waste
Troy Lautenbach (Chair)	Lautenbach Industries

Carolyn Logue	Washington Food Industry Association
Kristine Major	Spokane Regional Solid Waste System
Erik Makinson	Resource Synergy
Derald Ortloff	Yakama Nation
Cal Palmer	Energy and Environment LLC
Becci Piepel (Vice-Chair)	Countywide Solid Waste Programs of Douglas County
Julie Robertson	Department of Ecology
Jay Simmons	NORPAC
Andy Smith	King County Solid Waste Division
Art Starry	Thurston County Environmental Health
Heather Trim	Zero Waste Washington
	WSRA
Rod Whittaker	WRRA
Mike Young	UTC

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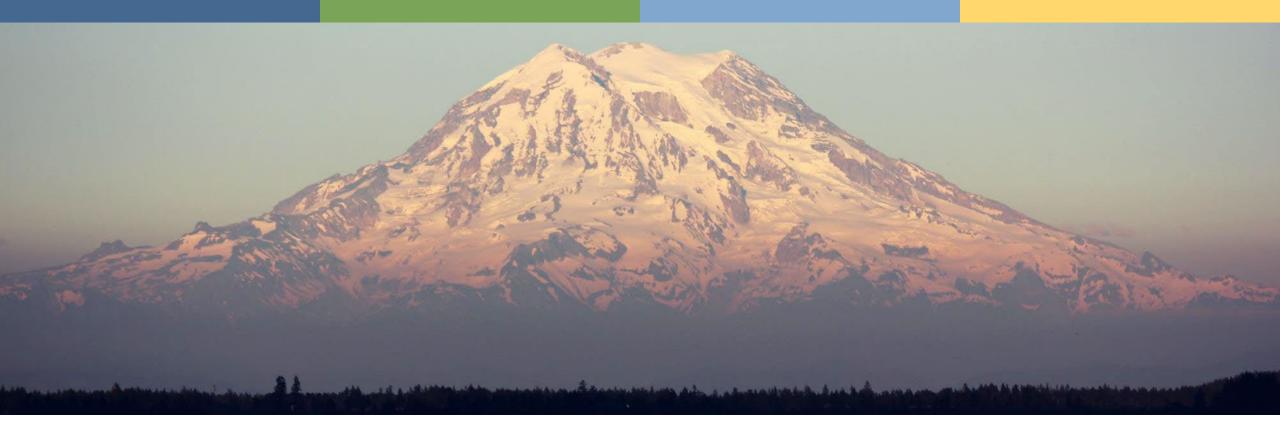
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Julie Robertson







# HB 1799 Organic Materials Management Julie Robertson

# **Overview**



- Local governments consider organic goals in developing solid waste management plans
- Requires city and county development regulations to allow the siting of organic facilities
- Local governments to provide organic collection services
- Businesses to source separate organics for collection
- Requires local governments procure more compost

# **Organics collection**

# Beginning January 1, 2027

- → Jurisdictions that implement solid waste management plans
  - → Provide source-separated organic waste collection services to certain residents and commercial customers





# **Funding study**

- Address local government funding for solid waste
- Stakeholders
- Recommend mechanisms to support solid waste programs
- Report July 1, 2023





# Washington Center for Sustainable Food Management

- Coordinate food waste reduction
- Distribute grants dedicated to food waste prevention, rescue, & recovery
- Collect data
- Federal, state, & local collaboration



# Product degradability labeling

- Modifies criteria for marking compostable bags, films, food containers (green, brown, or beige)
- Education, outreach, & technical assistance
- Complaint forum
- January 1, 2024: Producer tracking & declarations
- July 1, 2024: Enforcement



# Questions?

Julie Robertson
Legislative & Policy Coordinator
julie.robertson@ecy.wa.gov
360-763-2728

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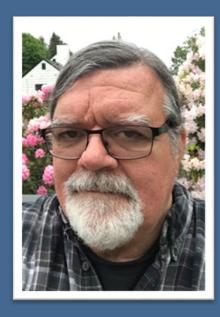
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**Bill Harris** 



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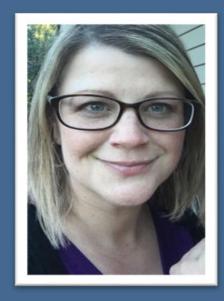
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Tina Schaefer







# Recycling Development Center

Tina Schaefer, Solid Waste Management Program March 25, 2022



# Recycling Development Center

Chapter 70A.240 RCW

### RECYCLING DEVELOPMENT CENTER

### Sections

**70A.240.010** Findings. **70A.240.020** Definitions.

70A.240.030 Recycling development center—Creation—

Purpose and duties—Report to the legislature

and governor—Interagency agreement—

Rules.

70A.240.040 Advisory board—Duties—Membership.





(2) Therefore, it is the policy of the state to create the recycling development center to research, incentivize, and develop new markets and expand existing markets for recycled commodities and recycling facilities.









# **Advisory Board**































# **Center efforts 2021-2022**

Center one-time grants

Spring 2021 Fall 2021

Glass recycling markets

**Plastic** recycling markets

Winter 2022

NextCycle & PreCycle

Winter/Spring 2022

















Summer 2022 Legislative report

Summer 2021

Glass recycling focused board meeting

Winter 2021 & 2022

Plastic recycling focused board meeting

Winter & Spring 2022 WWU economic

and equity analysis contract

Spring 2022

Textile focused board meeting

# **Center information**





**Recycling Development Center Advisory Board Meeting** February 9, 2022

- The Washington Recycling Development Center (Center)
- Advisory Board met online on February 9, 2022.

  Department of Ecology (Ecology) staff hosted the meeting on Zoom.
- Interested parties attended and asked questions

### **Advisory Board members:**

Karl Englund: Washington State University Nina Goodrich: Sustainable Packaging Coalition

Ruby Irving-Hewey: Klickitat County Allen Langdon: Circular Matters Kris Major: City of Spokane

### **Agenda**

- Board, Ecology, and Department of Commerce (Commerce) updates Legislation update
- Innovation Cluster Accelerator Program update
- Plastic presentations

The meeting agenda and other materials are available on the Advisory Board website<sup>i</sup>

### Board, Ecology, Commerce updates

Board members shared the following updates with links to online resources.

- Nina Goodrich, Sustainable Packaging Coalition: SPC winter series is available online<sup>il</sup>. National stitute of Standards and Technology published a mass balance accounting methods report
- Heather Trim, Zero Waste Washington: the <u>2022 Circular Innovation Challenge</u> is starting, partnered with Seattle Good Business Network, looking for mentors and judges.

Ecology update: The contract with Western Washington University's Center for Economics and Business Research' is in place for a baseline economic assessment and equity analysis. Draft plastic market summary will be shared for review and comment. We are working with EPA to get support on recycling infrastructure map. We continue to partner with King County on NextCycle Washington\*

Commerce update: Hiring for a Center support position and industrial symbiosis. Discussing potential for pilot projects with recycled glass and Washington Department of Transportation, also the US Sustainable Business Council. Commerce will be funding the Materials Marketplace

Notes from February 9, 2022



and April 2021) are available at the advisory board website. This document provides

- Center recommendations and goals
- A synopsis of the current paper market
- · A summary of available paper data

Recommendations and Goals

- Identify companies in Washington that make paper products that could use recyclable paper as leedstock or where use could be increased.
   Identify how processing of recyclable materials could be improved (like reducing containing the containi
- identify needs, barriers, and opportunitie · Research and report where increased re-
- beneficial or detrimental.

  Update and expand on existing recyclable

### · Obtain additional information about end Center paper market goals:

- · Increase domestic processing capacity fo are currently 8 pulp/paper mills using p
- · Increase recyclable paper fiber use by ma
- Current system and challenges

Washington's paper industry: In 2017, a total of Ecology as delivered to specific companies manfa companies using recyclable paper are shown in F

RECYCLING DEVELOPMENT CENTER

Chris Piercy: Kitsap County

Derek Ruckman: WasteXperts

Tim Shestek: American Chemistry Council Jay Simmons: North Pacific Paper Company

Heather Trim: Zero Waste Washington



This report focuses on glass containers, bottles, and jars which can be recycled in furnaces. Other glass uses

- Next steps and policy in
- Research need

### Report Overview

The report on glass recycling summarizes data, challenges, and barriers in the current glass market, and suggests next steps and research to improve markets for glass containers, bottles, and jars Next steps to consider:

- Identify operational improvements for mate Identify approaches that would reduce the c
- the processing and remanufacturing.
- Identify options for increasing glass collection distilleries, or breweries
- Research opportunities and evaluate option
- Conduct additional research into the marke and opportunities for bringing new end ma-

### Policy ideas for further investigation:

### Several policy options are discussed in this report th

- Beverage bottle deposit return program wo recycling.

  • Mandates for minimum post-consumer recycling.

(Center) for its advisory board. The purpose of this report is to provide an overview of plastic packaging recycling markets in Washington State.

The many physical properties of plastics (e.g., low density, flexibility, transparency, chemical resistance, stability) allow their use extensively in manufacturing and consumer products.<sup>2</sup> The most cor for plastics is packaging, often used once and discarded.

China's 2018 National Sword policy substantially reduced exports of plastic packaging waste. As a result, many curbside programs limited or eliminated collection of plastic for recycling. This reduced plastic recycling activities in Washington State.

Consumer packaging includes common materials made of plastic such as bags, bottles, thermoforms, tubs, tubes, flexible pouches, and film. In a 2021 study, plastic waste comprised 13.1 percent by weight cluds; volves; referre municipal solutions, are min. In a 2023 solution; practic waster comprised 25% percent by weight of Washingtons municipal solid waste stream, of which packaging made up more than half [7.4] percent]. While use of plastic packaging has increased, it takes less material to make a package out of plastic than glass or metal, areating less waster.

### Manufacturing and Recycling

An estimate of annual global plastic production reported 404 million tons of plastic produced in 2020.4 Plastic packaging is the largest sector of production, comprising 36 percent.<sup>2</sup> About half of plastic packaging is manufactured for use in the food and beverage sector, with the other half used for packaging in personal and household care, industrial, pharmaceutical, and other applications.

### Recycling plastic packaging

The Ocean Conservancy provided U.S. data, shown in Figure 1, for five types of plastic packaging commonly collected for recycling. As shown in Figure 1, most plastic packaging ends up disposed in a

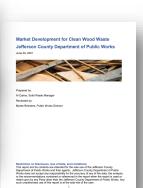
REPORT TO THE LEGISLATURE

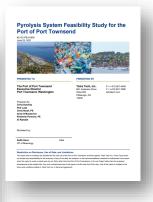
# Center one-time grants

13 projects: \$584,437

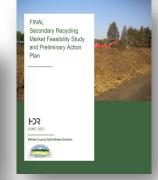










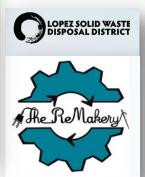


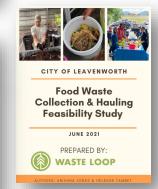


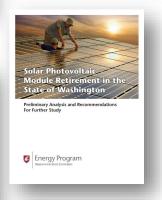














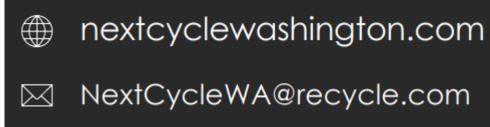
### www.precyclewa.org







https://washington.materialsmarketplace.org/



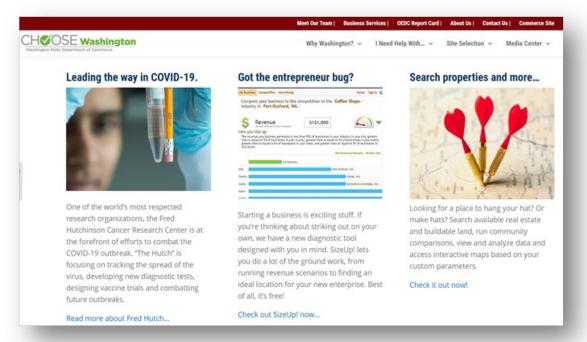
# **Department of Commerce Support**



# Innovation Cluster

### **ACCELERATOR**

http://icapwashingtonstate.org/





### **Industrial Symbiosis**





http://choosewashingtonstate.com/





# More information

### **Ecology**



### **Advisory Board**



- Email: RecDevCenter@ECY.WA.GOV
- Ecology website: <a href="https://ecology.wa.gov/Waste-Toxics/Reducing-recycling-waste/Strategic-policy-and-">https://ecology.wa.gov/Waste-Toxics/Reducing-recycling-waste/Strategic-policy-and-</a> planning/Recycling-Development-Center
- Email updates: <a href="https://public.govdelivery.com/accounts/WAECY/subscriber/new?topic\_id=WAECY\_112">https://public.govdelivery.com/accounts/WAECY/subscriber/new?topic\_id=WAECY\_112</a>
- Advisory Board website: https://www.ezview.wa.gov/site/alias\_\_1962/37596/recycling\_development\_center\_advisory\_board.aspx



# Thank you

www.ecology.wa.gov/rdc

RecDevCenter@ECY.WA.GOV

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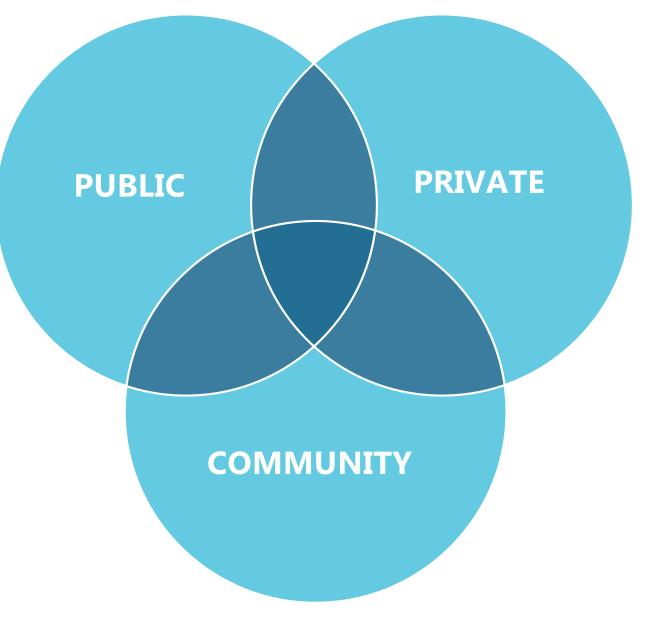
# Co-Design in Action

Centering Collaborative Engagement



# **Co-design voices:**

Community voices are integrated as a "third sector" to help bridge efforts with a public and private model.





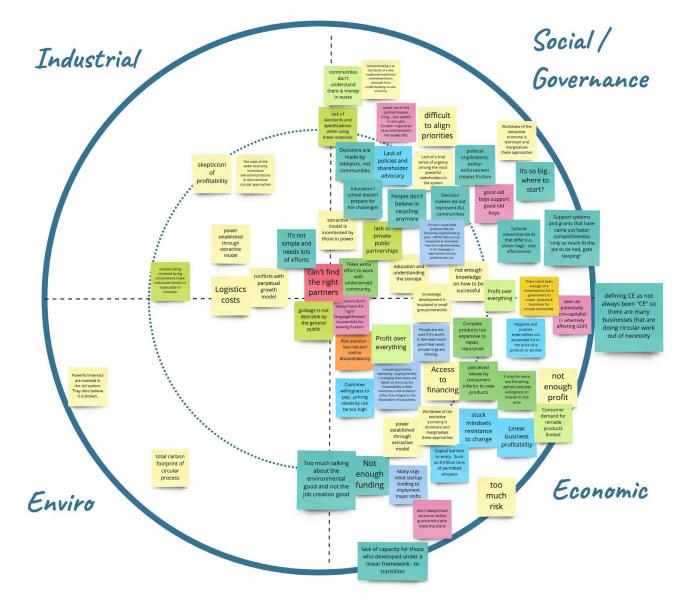
# Co-Design problem area alignment:

Why isn't there equitable circular economy (i.e., recycling, reuse, compost) support for organizations and businesses?



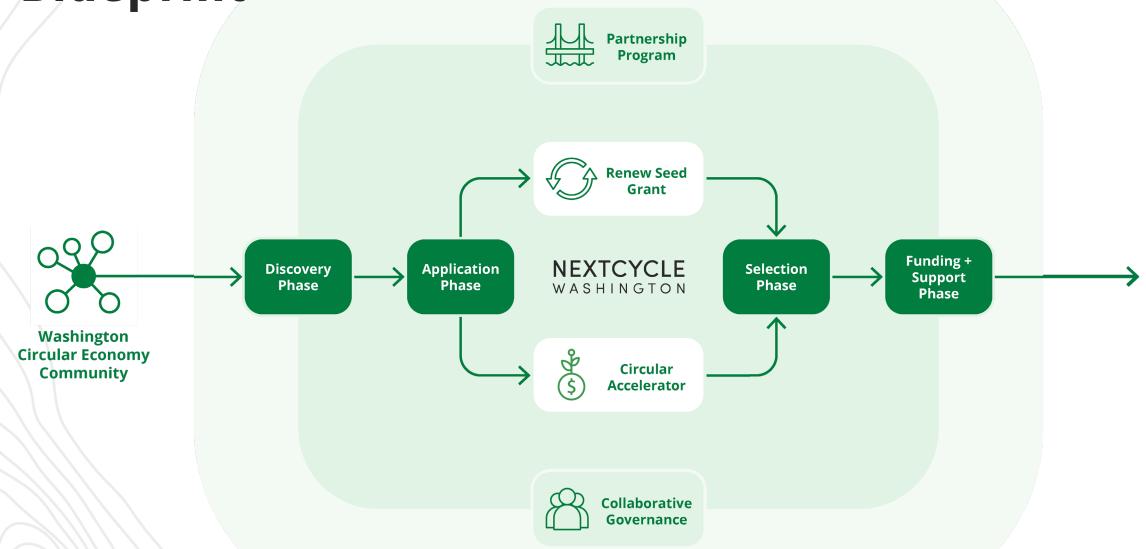
## **Problem mapping:**

The cross-sector co-designers mapped where they felt the problems existed regarding inequitable circular support





# Blueprint





# Prioritized strategies:

NextCycle Washington is making circular support for organizations and business more equitable through the following strategies: We use accessible communications formats to reach overlooked audiences.

#accessible-communications

We support a robust ecosystem of partners to support those doing the work.

#partner-network

We share power with community to increase transparency and accountability. #share-

power

We improve access to resources for overburdened communities.

#resource-access

We lower barriers to entry to improve applicants' outcomes.

#lower-barriers

We support program participants in strengthening local community networks.

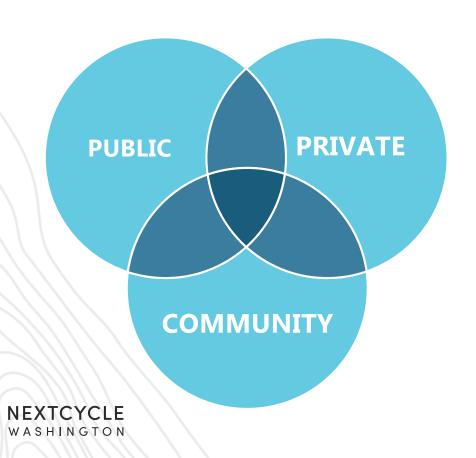
#community-networks

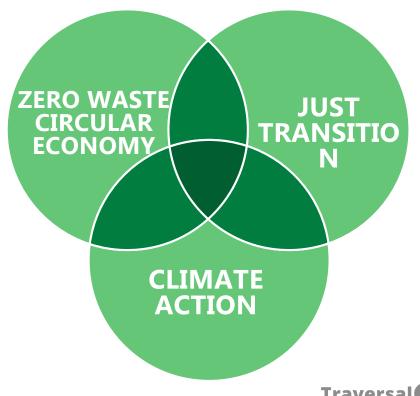


# **Co-Design and Governance**

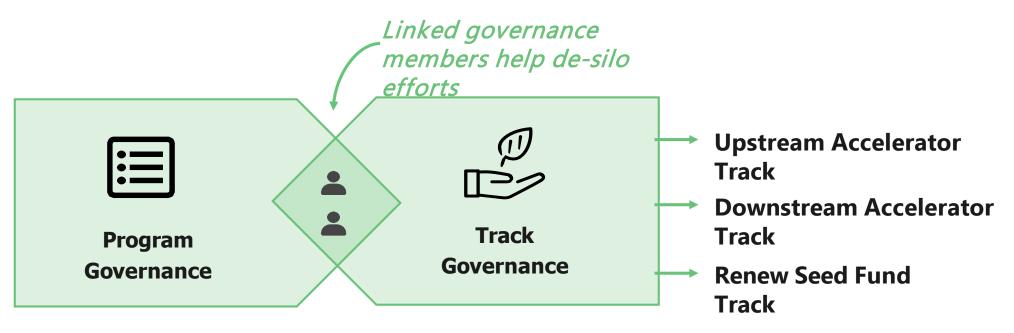
Composition third sector" to governance is at the core of the model.

De-siloing voices from these movements is key to building shared language.





# NextCycle WA Governance Structure



#### **Composition:**

Majority community voices

#### **Main Task:**

Provide program oversight to meet program goals

#### **Composition:**

Majority members with circular technical skills and knowledge

#### **Main Task:**

Selects and recommends projects







# How can you get involved?



## **How to Get Involved**

- I have a project or am seeking to be a partner on a project
- I can offer mentorship or resources
- I have a complimentary program
- I can help raise awareness and spread the word to my network
- I am a funder or investor looking to support circular business

# Current Priority: Recruit Accelerator Applications open June 1 – July 15, 2022



# Join Our Mailing List Spread The Word Send Referrals







in <a href="https://www.linkedin.com/showcase/nextcycle-washington/">https://www.linkedin.com/showcase/nextcycle-washington/</a>

<u>https://form.jotform.com/220725800368151</u>











#### **Agenda**

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Waste Reduction, Reuse, and Repair Recommendations 11:00 a.m. | 45 minutes | Heather Church, Department of Ecology

Jacob Cargal-Bley Chelsea Mickel John Salber Jake Thoennes

University of Washington
Evans School of Public Policy & Governance



# Reduce, Reuse & Repair

Waste Reduction Recommendations for Washington State



# EVANS SCHOOL OF PUBLIC POLICY & GOVERNANCE

UNIVERSITY of WASHINGTON

Chelsea Mickel, Jacob Cargal-Bley, Jake Thoennes, & John Salber
May 19th, 2022

## **Project Overview**

Research waste reduction initiatives in WA, nationally & internationally

includes programs and policies undertaken by government entities, NGOs and non-profit institutions, and private businesses to address waste reduction

Provide recommendations for how Ecology's Solid Waste Management Program can advance waste reduction, reuse and repair in WA

### Research Questions

WHAT actions and best practices can Ecology implement over the next 2 to 5 years to promote waste reduction & prevention in WA?

**HOW** can Ecology implement these recommendations in a way that <u>supports equity</u>, <u>environmental justice and climate mitigation</u>, focusing on overburdened, underserved, and vulnerable populations?

### Research Methods

### Literature Review

- Waste reduction & sustainability frameworks
- Environmental justice and sustainability
- Additional focus areas: single-use, textiles, electronics

### Semi-Structured Interviews

- Generalist experts
- Topic experts
- Case experts

## Interview Key Takeaways



Cultivating reuse businesses



Engaging change agents to influence public behavior



Aligning material incentives



Making information available to organizations and the public



The continued need for robust compost and recycling systems



Engaging with educational institutions



The need for further research into waste reduction, reuse, and repair



A lack of rigorous engagement with equity issues

				Inter	view Key The	mes		2
		Cultivate Reuse Businesses	Engaging Change Agents	Align Material Incentives	Make Information Available	Engaging with Educational Institutions	Need for Research	Equity Considerations
	Stakeholder Group		<b>©</b>					
	Reuse & Repair Micro-Grants							<b>1</b>
tions	Reuse & Repair Startup Materials	1	© 243					
Recommendations	Develop Statewide Education Campaign		© 243					<b>-</b>
Recol	Encourage waste reduction, reuse and repair content in curricula		© 243					
	Expand Hotline Support and Search Tool	<u>-</u>	© 243					<b>-</b>
	Commission Research							

### Recommendation Criteria



#### **Feasibility**

extent to which the recommendation is within existing capacity in terms of financial cost, time required, authority, and technical capabilities



#### **Timeframe**

amount of time it takes to implement a policy recommendation



#### **Capacity Building**

effect on the capacity of the participants and target organizations to carry out their missions



#### **Culture**

extent to which the recommendation fosters a culture amenable to reuse and repair



#### **Equity**

degree to which the recommendation integrates disadvantaged or overburdened groups to take into consideration their voice during decision-making processes, ensures a just distribution of resources, or provides them with tools to lead change in their own communities



#### **Networking**

degree to which the recommendation connects organizations in the repair/reuse space



#### Waste

impact on the volume of the waste stream

## Stakeholder Group

## Create a stakeholder/advisory group for reuse/repair businesses, nonprofits, informal groups, and interested citizens

- Gather specific information about barriers and areas for state action
- Use as a sounding board for new policies and plans
- Similar examples in Massachusetts and California

Feasibility	Timeframe	Capacity	Culture	Equity	Network	Waste
16	Ø	1	3	ΔŢ	900	Î

## Reuse & Repair Microgrants

### Up to \$10,000 grants for one-time purchases

- Many organizations are small scale and have a relatively stable financial model, but struggle with one time purchases
- Funds could be spent on tools, spare parts, PPE, advertising, setup materials, or transportation

Feasibility	Timeframe	Capacity	Culture	Equity	Network	Waste
16	Ø		130	ΔŢΛ	<b>6</b>	Î

## Reuse & Repair Startup Startup Materials

# Collect information on financial, organizational, and technical best practices

- Different organizations go through similar growing pains
- Many resources that exist online, but are scattered and not easy to find
- Reduces duplication of effort and increases likelihood of success

Feasibility	Timeframe	Capacity	Culture	Equity	Network	Waste
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## Influence Higher Education Curricula

# Identify or integrate waste reduction, reuse, and repair materials in course curricula

- Waste reduction, reuse, and repair skills are already taught in many courses across different disciplines, but not marketed as such
- Could include adopting standard reuse/repair vocabulary for curricula and marketing or recognition of faculty or students

Feasibility	Timeframe	Capacity	Culture	Equity	Network	Waste
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## Develop Statewide Education Campaign

# Create a campaign that informs residents about the harms of fast fashion and introduces sustainable alternatives to consumerism

- Promotes local reuse and repair businesses, such as second-hand clothiers, tailors, cobblers, clothing rental services, and swap events
- Educates residents on how to properly care for and repair garments to extend their usable life

Feasibility	Timeframe	Capacity	Culture	Equity	Network	Waste
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## Expand Hotline Support & Search Tool

### Integrate reduce and repair services

- Increase operational capacity for 1-800-RECYCLE hotline
- Expand scope of search results for online database tool
- Create virtual waste-impact calculator
- Create virtual events calendar integrated with search tool
- Expand language accessibility for hotline support and search tool

Feasibility	Timeframe	Capacity	Culture	Equity	Network	Waste
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### Commission Research

### Sponsor and Fund Research at Universities in Washington

- Fund research studies to expand available knowledge of reduce, reuse and repair techniques, technologies, and practices
- Determine if/how funding models, infrastructure, and other requirements for local waste management must change to be congruent with the prioritization of reuse and repair

Feasibility	Timeframe	Capacity	Culture	Equity	Network	Waste
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		Feasibility	Timeframe	Capacity	Culture	Equity	Network	Waste
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## Secondary Recommendations

- Create Equity Toolkit to be implemented w/ waste reduction programs & campaigns
- Conduct Economic Analysis on the Reuse Economy in Washington
- Develop Standard Indicators to measure developing trends and the impact of the reuse & repair economy
- Lead By Example through implementing repair & reuse procurement policies in the Department of Ecology
- Develop Common Language Definitions for reuse & repair with a preferred vocabulary
- Develop or Adopt Distinct Branding for reuse & repair similar to what has been developed for other levels of the waste hierarchy

# Questions?

## A Special Thank You

- The Solid Waste Management Program at the Washington State Department of Ecology, particularly Janine Bogar & Heather Church
- All Ecology teams, including at the Recycling Development Center, Green Chemistry, and Office of Equity & Environmental Justice
- Every one of the thoughtful and gracious interviewees
- Our capstone advisor Matt Steuerwalt
- Each Evans School peer reviewer

## **APPENDIX**

					Interview k	Key Themes			
ı		Cultivate Reuse Businesses	Engaging Change Agents	Align Material Incentives	Make Information Available	Robust Compost & Recycling Systems	Engaging with Educational Intuitions	Need for Research	Equity Considerations
ı	Stakeholder Group		<b>®</b>			0			<b>F</b>
ı	Reuse & Repair Micro-Grants	<u>-</u>							<b>F</b>
dations	Reuse & Repair Startup Toolkits	1	<b>©</b>						<b>F</b>
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Recol	Encourage waste reduction, reuse and repair content in curricula	<u>-</u>							<b>F</b>
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# APPENDIX

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	Commission Research	16	Ö	4	<b>8</b>		<b>6</b>	m

#### **Agenda**

#### **Solid Waste Advisory Committee Meeting**

May 25, 2022 | 9:30 am - 12:00 pm



Call to Order & Zoom Meeting Instructions 9:30 a.m. | 5 minutes | Troy Lautenbach (Chair) and Laurie Davies

New SWAC Member Introductions 9:35 a.m. | 10 minutes | Troy Lautenbach and Laurie Davies

Organic Materials Management – HB 1799 9:45 a.m. | 10 minutes | Julie Robertson, Department of Ecology

Reducing Methane Emissions from Landfills – HB 1663 9:55 a.m. | 20 minutes | Bill Harris, Department of Ecology

Recycling Development Center Update
10:15 a.m. | 15 minutes | Tina Schaefer, Department of Ecology

NextCycle Washington
10:30 a.m. | 30 minutes | Bryce Hesterman RRS

Kamal Patel, Traversal Design

Waste Reduction, Reuse, and Repair Recommendations 11:00 a.m. | 45 minutes | University of Washington Evans School of Public Policy & Governance

Member Updates & Roundtable 11:45 a.m. | 15 minutes



## Member Updates

### We want to hear from you!

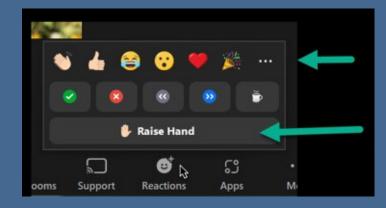
If you would like to provide comments, please write your name in the chat or raise your hand.

We will call on you to speak in the order that we see names in the chat or hands raised. Please unmute yourself when it's your turn.

You may also write your comment in the chat and we will read it for you.

Please keep your comment to <u>under 2 minutes</u>.







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