

Recycling Market Development Center Advisory Board Meeting



July 10, 2024, 9am – 11:30am PST

WSRA Conference 2024 – Vancouver WA

Agenda



9:00 Welcome

9:10 Ecology and Commerce updates

9:25 Board roundtable



9:35 Mya Keyzers – Commodity – Industry update

9:45 Gretchen Newman – C & D data presentation

10:05 Bio Break



10:15 C & D Presentations

- Dave Bennink – Building Deconstruction Institute & Re-Use Consulting
- Katie Kennedy – Seattle Public Utilities
- Hanna Waterstrat – Department of Commerce – State Efficiency & Environmental Performance (SEEP)

11:30 Wrap Up

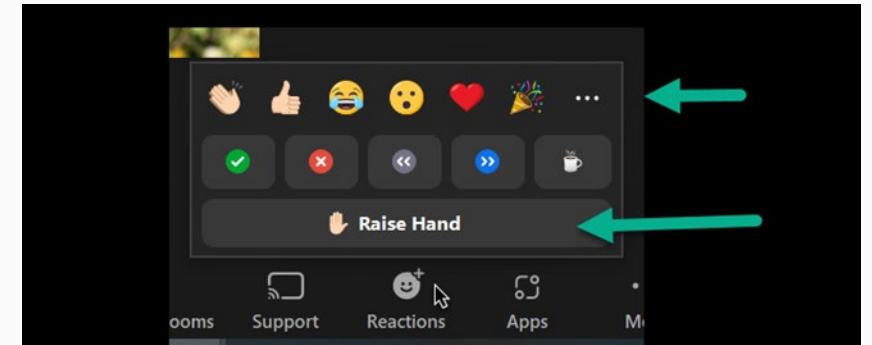
Participation in this meeting:

Roles

- Host-Caleb
- Facilitator-Mya
- Note taker/chat monitor-Tina

Roles

- Cameras on
- Board members and presenters may unmute themselves
- Questions? Please raise your hand or type them in the chat
- I will call on you or I can read your question
- Use reaction to keep it interactive



Note: we are not recording this meeting, meeting notes will be posted on the Advisory Board website.

Agency updates

Kara Steward



Kirk Esmond



Prairie Underground - Seattle

Ecology Update



Outreach & Tours



RMDC budget



Material Research Series



NextCycle Washington

RMDC outreach and tours





2024 NextCycle Washington Pitch Showcase

Monday September 23rd
12:30 pm – 5:30 pm

Seattle Public Library – Central
branch (downtown, in-person only)

Free to attend, registration open
soon on NextCycleWashington.com

www.nextcyclewashington.com/2024-pitch-showcase

Washington State Circular Economy

RECYCLING MARKET DEVELOPMENT CENTER, ADVISORY BOARD
MEETING
— COMMERCE UPDATES —
JULY 10, 2024

Kirk Esmond | Circular Economy Development Director

Office of Economic Development & Competitiveness | Washington State
Department of Commerce



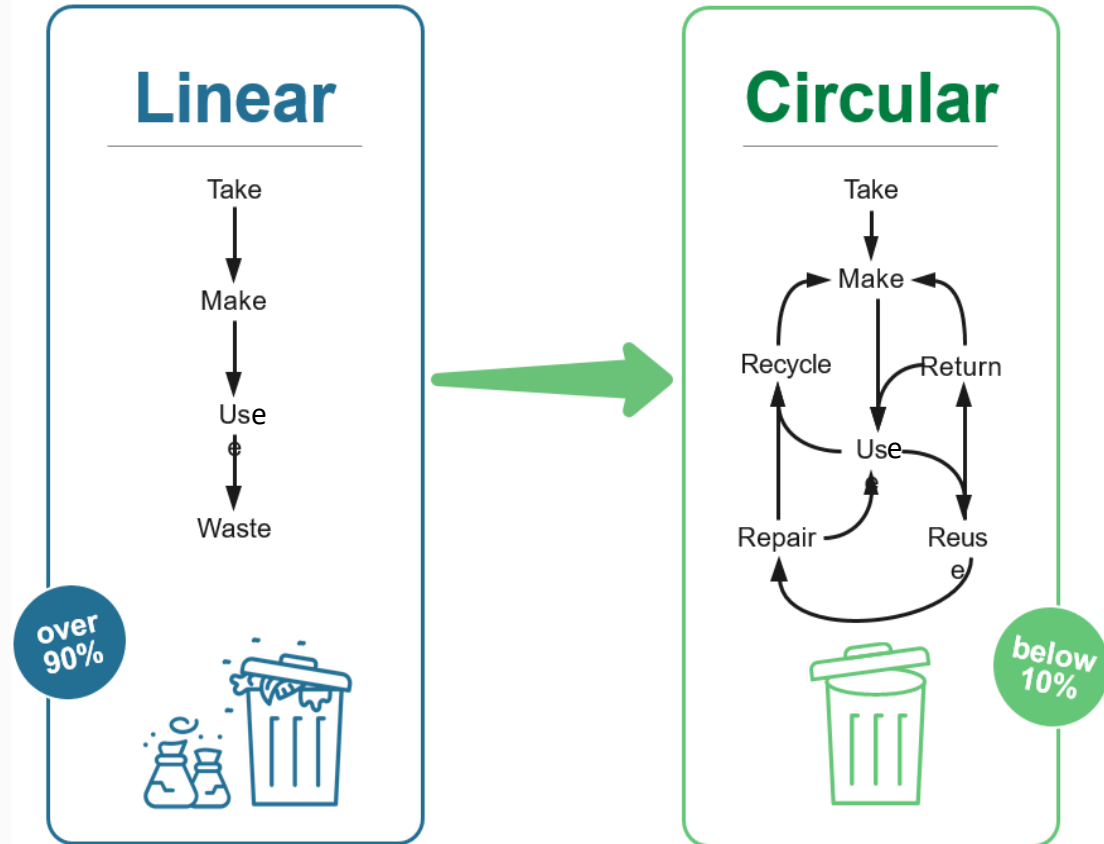
Washington State
Department of
Commerce

High-level Updates

Circular Economy Growth

Key initiatives and projects underway

- **Circular Economy Development Unit**
 - Current buildout and future team expansion
 - Broader, more inclusive messaging (E.g. Industrial Symbiosis as a key tool in the toolbox)
 - Increased outreach and statewide support for NextCycle WA (E.g. ADO network)
- **Commerce (upcoming) Decision Package**
 - Requesting \$5M/year increase in ongoing funding through the legislature
 - Coordinating with 'sibling' agencies (E.g. ECY, WSDA) and other statewide entities
 - Focusing on the shift to a more circular, renewable and bioeconomy
- **International Presence and Continued Knowledge-sharing**
 - Int'l Industrial Symbiosis Alliance (COM goal: importing and exporting innovation)
 - Pilot projects in WA state utilizing Danish, circular energy park model
 - Recent Bioeconomy Trade and Study Mission in Finland (focus: forestry and secondary wood products)



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11:30 Wrap Up

Join at menti.com | use code 9900 9597

Mentimeter

JULY 2024 RMDC BOARD MEETING

What percentage of Washington's disposed MSW do you think is made up of construction and demolition material?



9%

18%

24%

49%



Board roundtable



Board Roundtable



Allen Langdon



Jon Smieja



Carly Mick



Karl Englund



Chris Piercy



Natalie Caulkins



Heather Trim



Preston Peck



Jay Simmons



Tim Shestek



Jocelyn Quarrell

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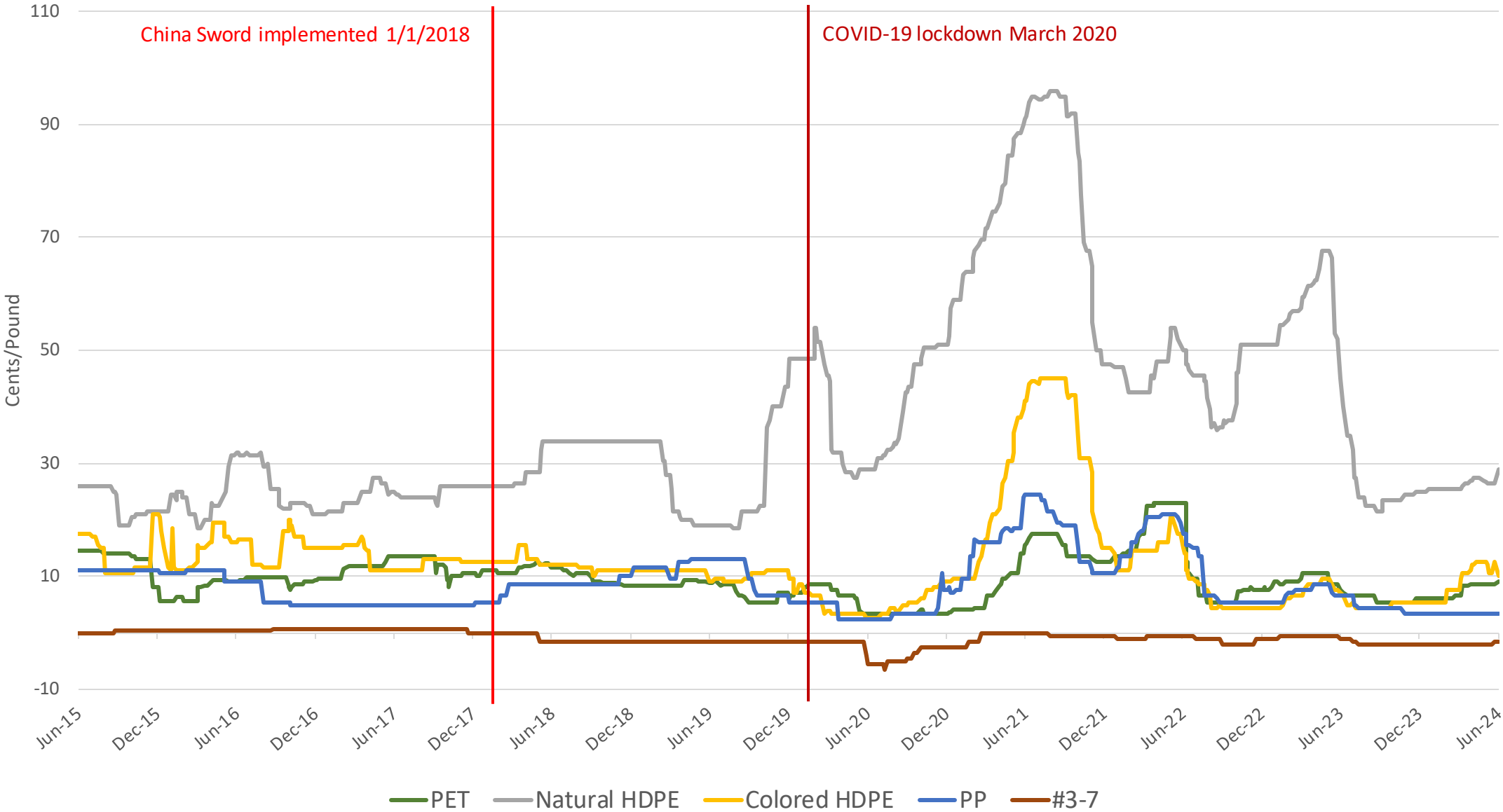
11:30 Wrap Up

Recycling Commodity Prices

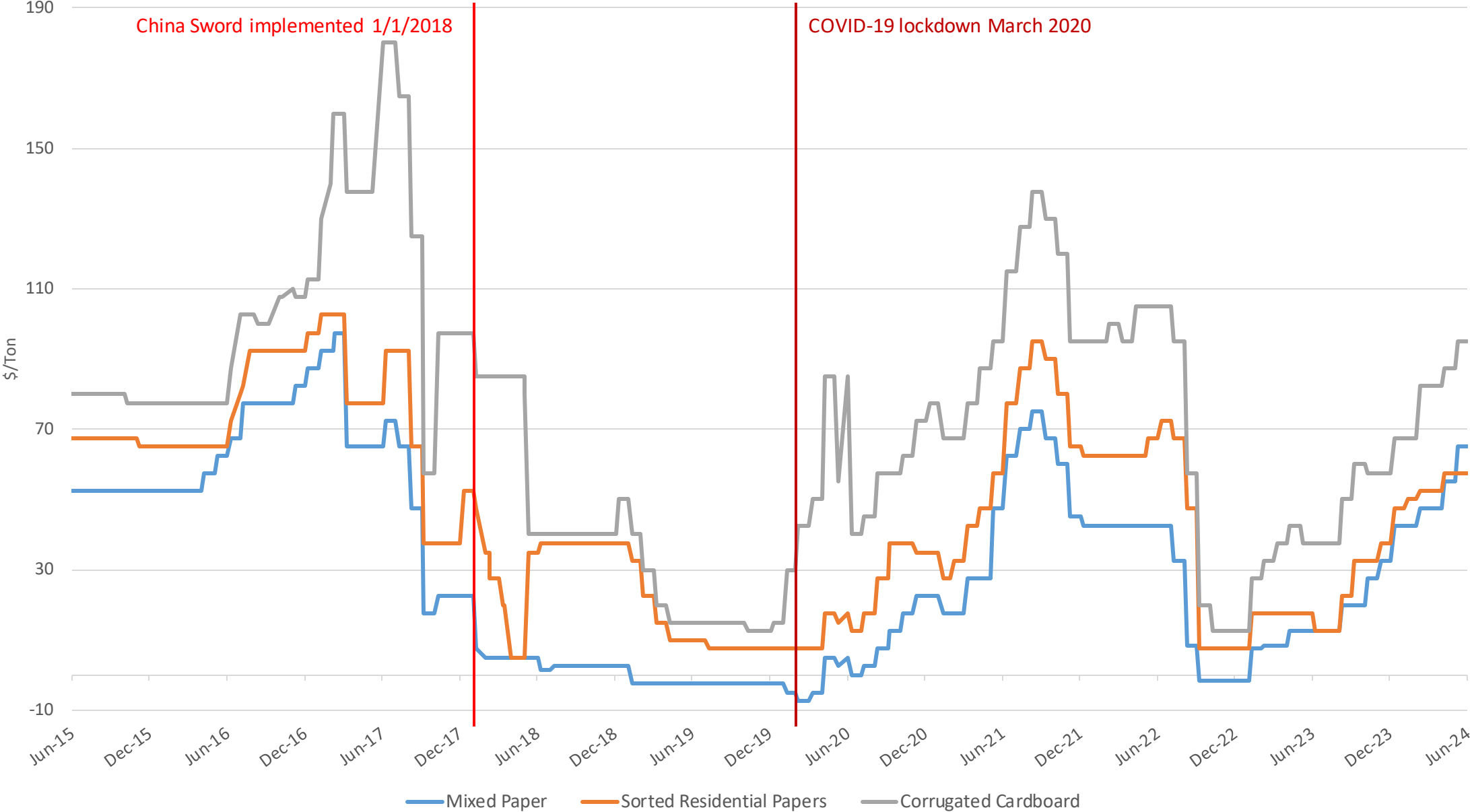
- RecyclingMarkets.net
- Market Region 4
- Reflects prices of sorted and baled post-consumer materials



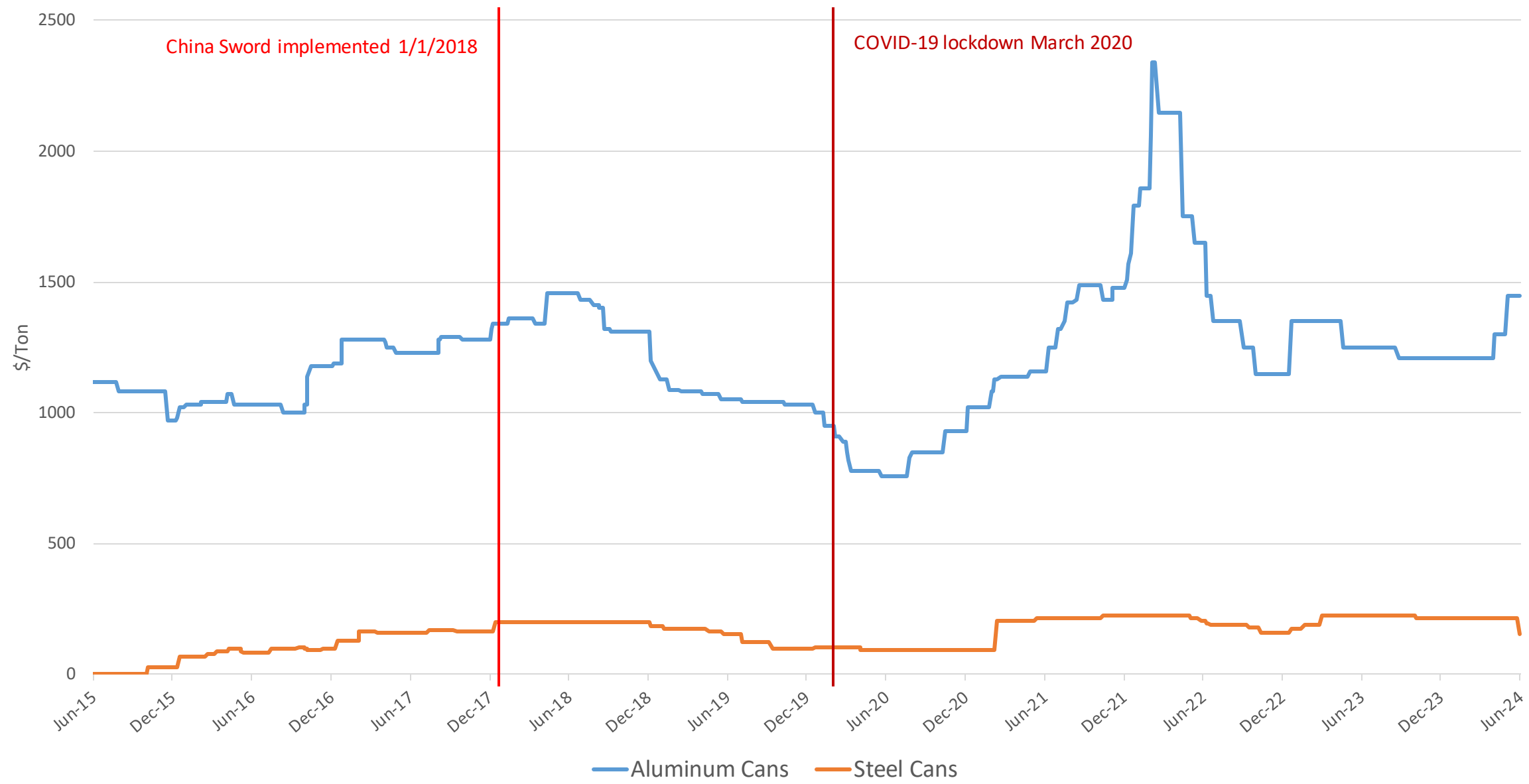
Recycled Plastic Prices in the PNW



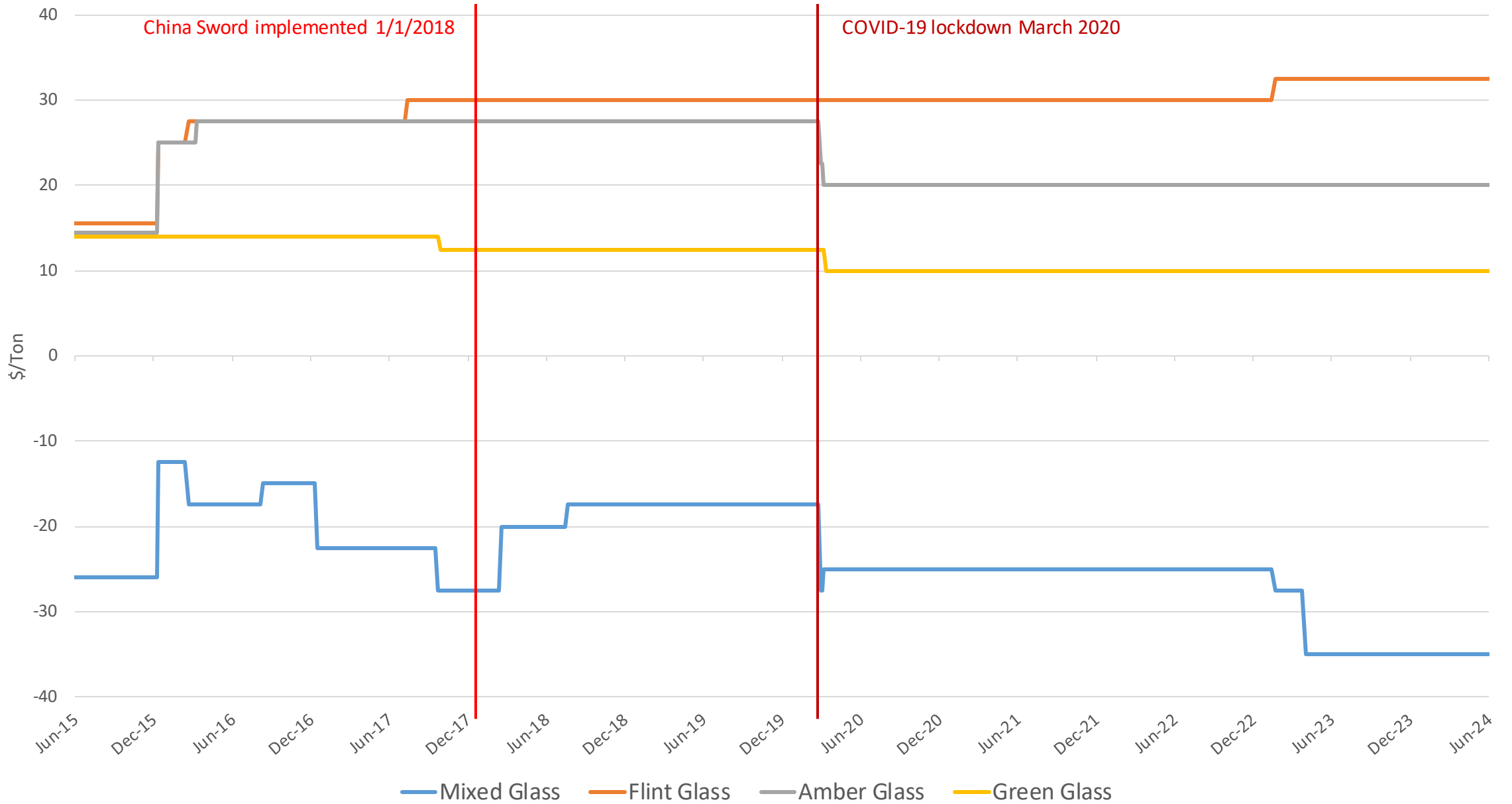
Recycled Fiber Prices in the PNW



Recycled Metal Prices in the PNW



Recycled Glass Prices in the PNW



End market updates

- McKinley Paper Company of Port Angeles lays off 193 employees.
- Ardagh halts production at Seattle location causing temporary layoffs of 244 employees.
- Some good news BIG Recyclers Hub (Pasco) & Spoke (Walla Walla and Benton City)
 - 118,000 pounds of glass have been diverted so far in 2024.
 - 60,000 lbs. has been received by factories in Portland and Seattle for new glass containers, insulated fiberglass, and sandblasting material.
 - Two local grants allowed them to offer monthly glass recycling events in Dayton totaling 1,500 lbs. so far.

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11:30 Wrap Up



Ecology's C & D data

Gretchen Newman
Department of Ecology



Washington State Surplus - Tumwater



Construction and Demolition Waste in Washington

Gretchen Newman

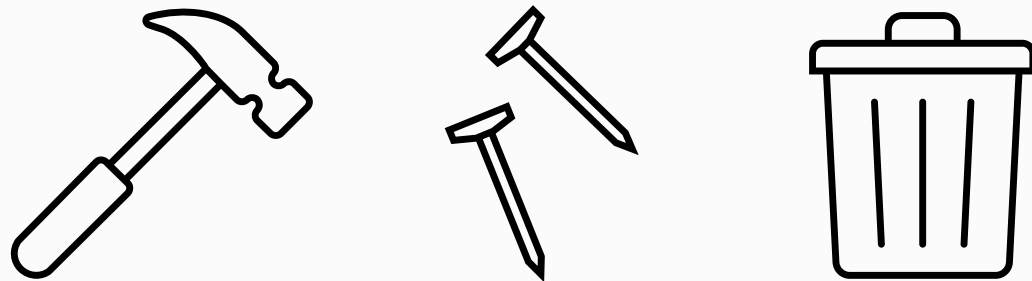
July 10, 2024

Table of Contents

- 1** What is C&D?
- 2** C&D reporting and tracking
- 3** Case Study: City of Seattle
- 4** Conclusions

Construction and Demolition in Washington

- C&D waste is large part of WA waste stream
- Current C&D reporting and tracking methods leave data gaps
- Much is unknown about C&D waste recovery and markets in Washington



Construction and Demolition in Washington

C&D waste typically includes:

- Wood, insulation, asphalt paving and roofing, concrete, drywall, cardboard, carpet and padding, plastics, wiring, metals, countertop and flooring materials, ceramics, and brick
- Materials with potential to be recycled (for example, drywall, wood, cardboard, concrete)



While some materials in a typical C&D stream are recyclable, many materials have no markets, or may be highly degraded, and will go to disposal.

C&D Waste Definitions

C&D is not a defined term under the SW Handling Regulations, Chapter 173-350 WAC, however, C&D is included in the definition of solid waste:

"Solid waste," "waste materials," or "wastes" means all putrescible and nonputrescible solid and semisolid wastes including, but not limited to, garbage, rubbish, ashes, industrial wastes, swill, sewage sludge, **demolition and construction wastes**, abandoned vehicles or parts thereof, contaminated soils and contaminated dredged material, and recyclable materials.

Some C&D materials are individually defined, including **cementitious material, contaminated soil, cured concrete, glass, inert waste, wood derived fuel, and wood waste.**

C&D Waste vs Inert Waste

C&D is NOT inert waste

Inert waste includes ONLY:

- Cured concrete; asphaltic materials; brick and masonry; ceramic materials; glass; stainless steel and aluminum

C&D waste is an overarching category that can contain inert materials, organics, and other sub-categories of waste

Mixed C&D may not be disposed of in inert waste landfills or stored or processed under piles or recycling exemptions. Solid Waste permits are required for management of mixed C&D.

Management of C&D

C&D may be managed for
recovery...

Recovery paths include:

- Comingled C&D MRFs
- Individual stream recycling such as wood or gypsum
- Limited mixed streams like comingled concrete, asphalt, and brick

or disposal

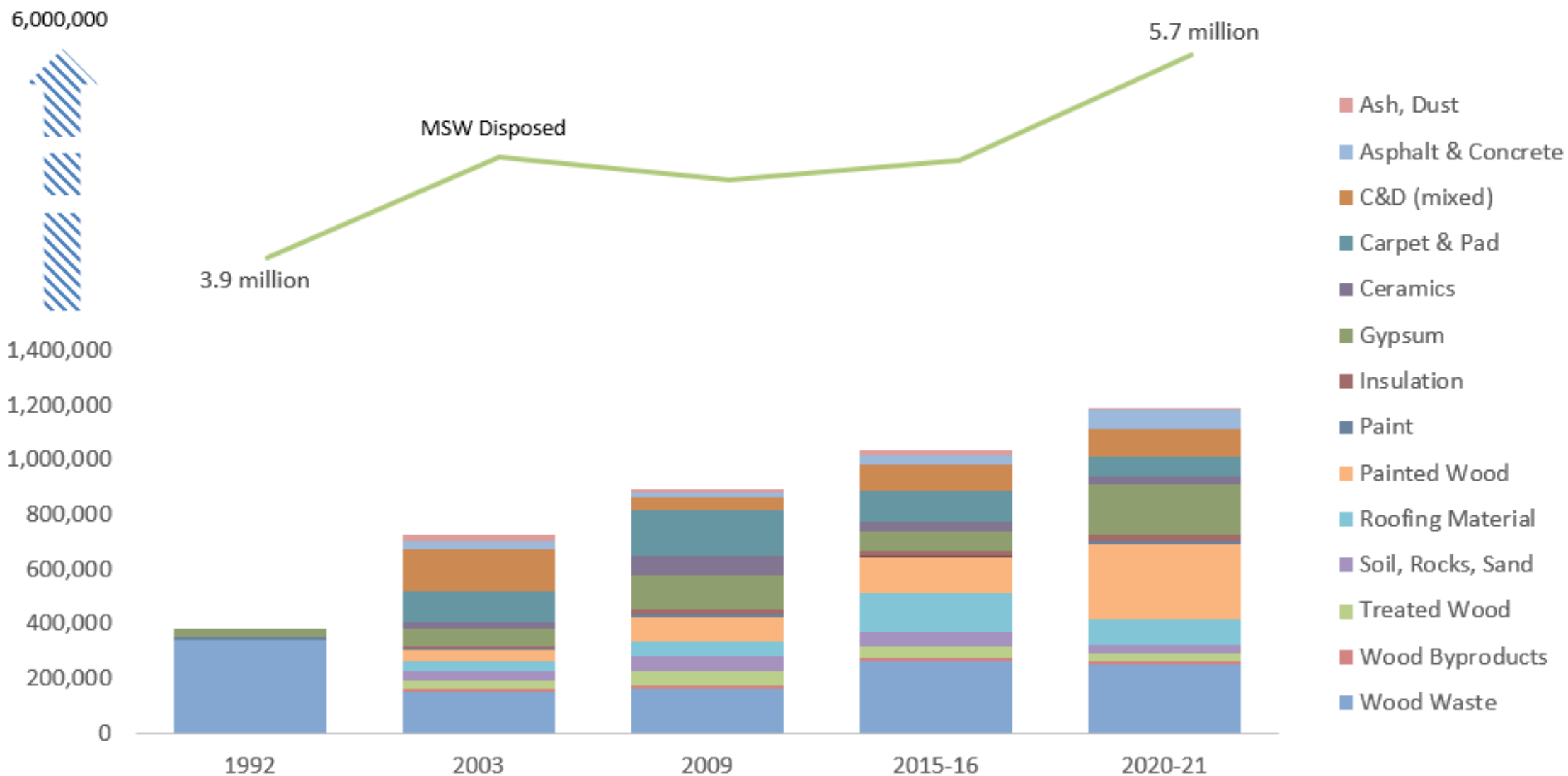
Disposal paths include:

- Municipal Solid Waste landfills
- Limited Purpose landfills
- Inert waste landfills ONLY for the inert fraction of C&D
- Incineration/Energy Recovery ONLY for the non-inert fraction

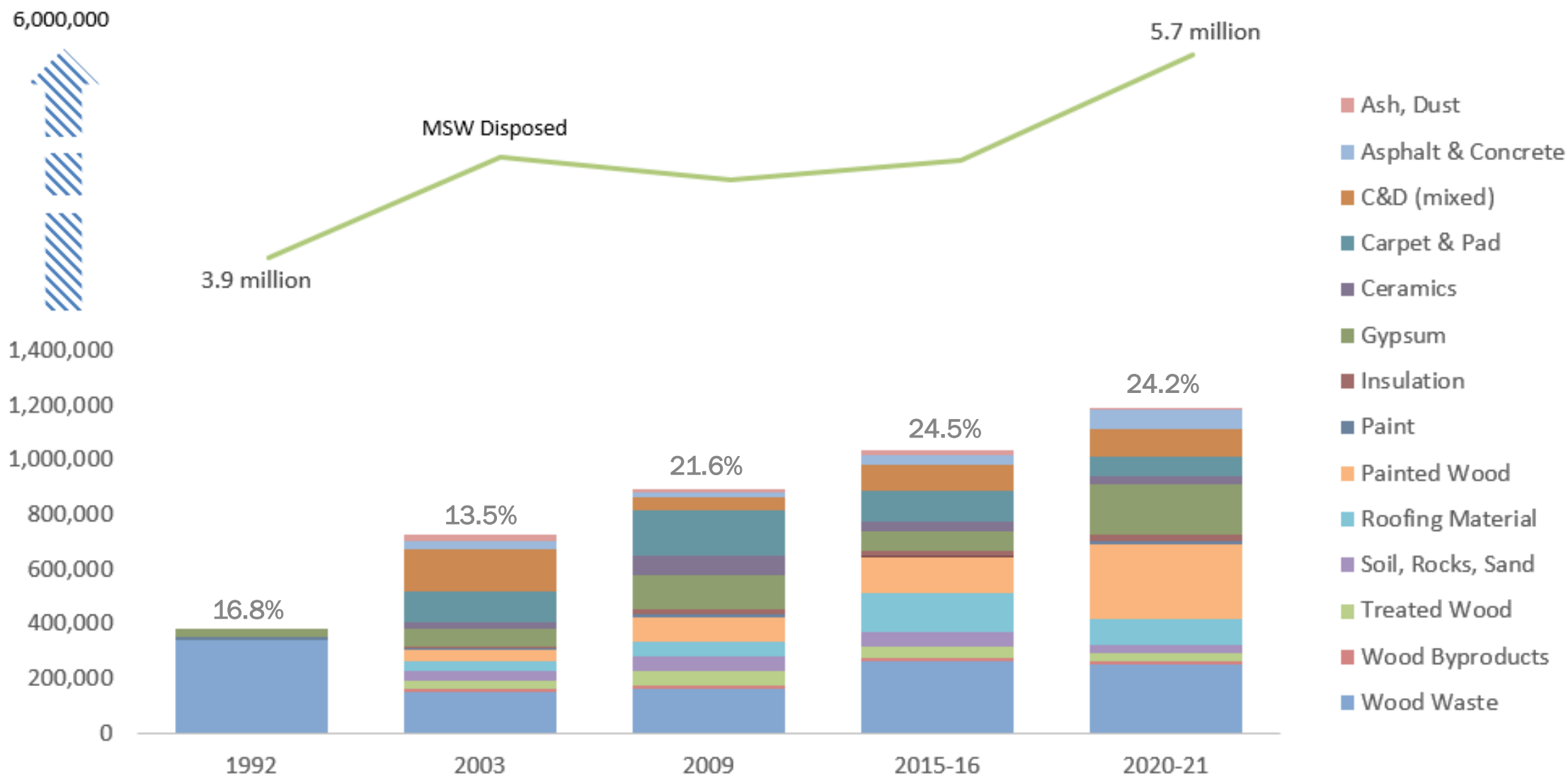
C&D Waste Measurement Methods

- Annual reports are required from C&D recycling and disposal facilities
 - Recovery data is compiled and reported along with other waste generation and recovery data
 - Disposal facilities
 - MSW landfills
 - periodic waste characterization studies measure C&D in mixed MSW
 - more goes to MSW landfills as homogeneous materials (concrete, wood, etc.)
 - Limited purpose and Inert landfills report homogeneous loads (no mixed MSW)
 - Energy recovery and incineration facilities

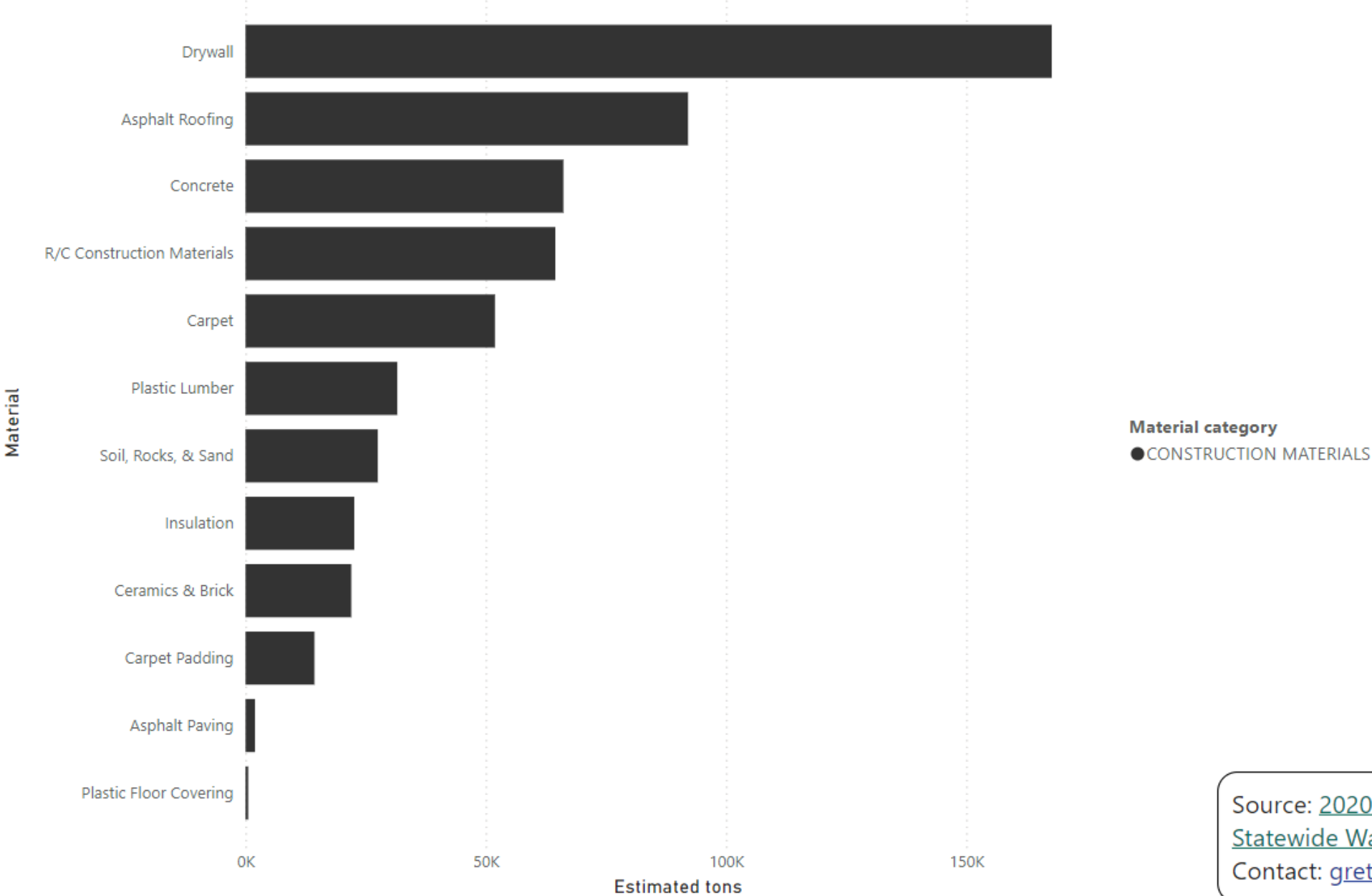
C&D MATERIALS DISPOSED IN MSW (TONS)



C&D MATERIALS DISPOSED IN MSW (TONS)



Solid Waste Categories 2021 Waste Characterization

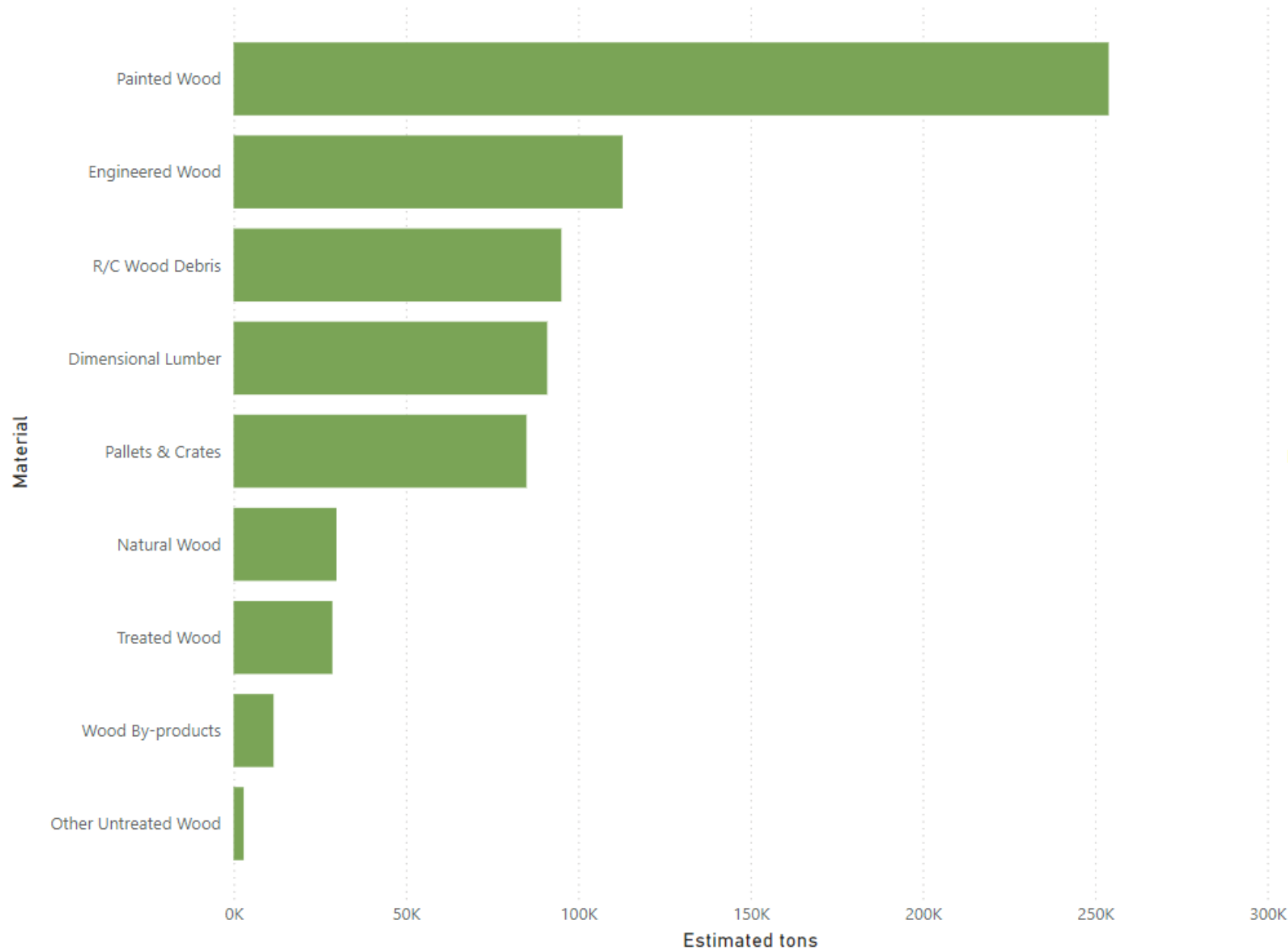


Drill down by category

All
Organics
Paper
Wood debris
Plastic
Construction material
Metal
Consumer products
Residuals
Glass
Hazardous and special wastes

Source: [2020 – 2021 Washington Statewide Waste Characterization Study](#)
Contact: gretchen.newman@ecy.wa.gov

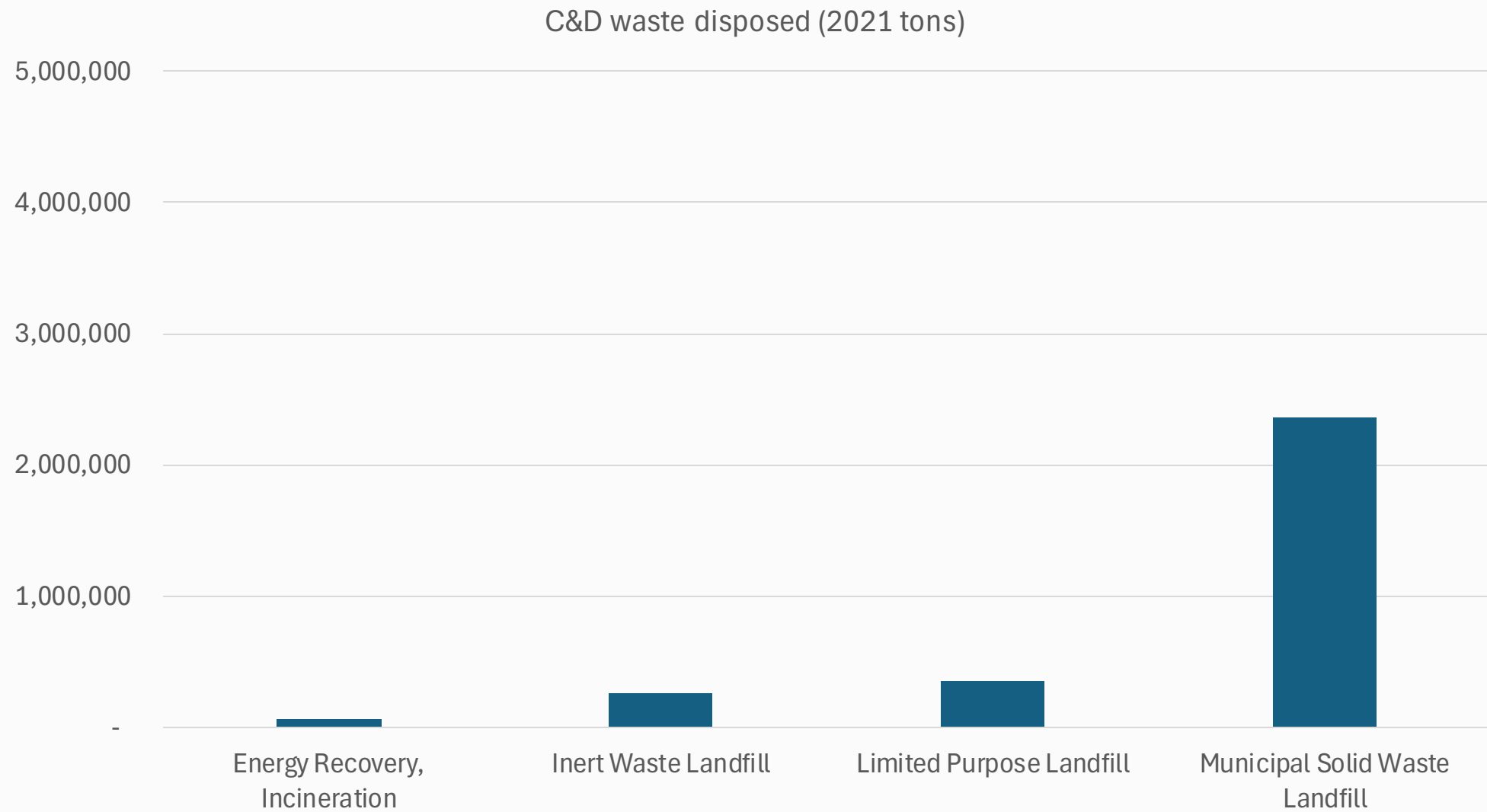
Solid Waste Categories 2021 Waste Characterization



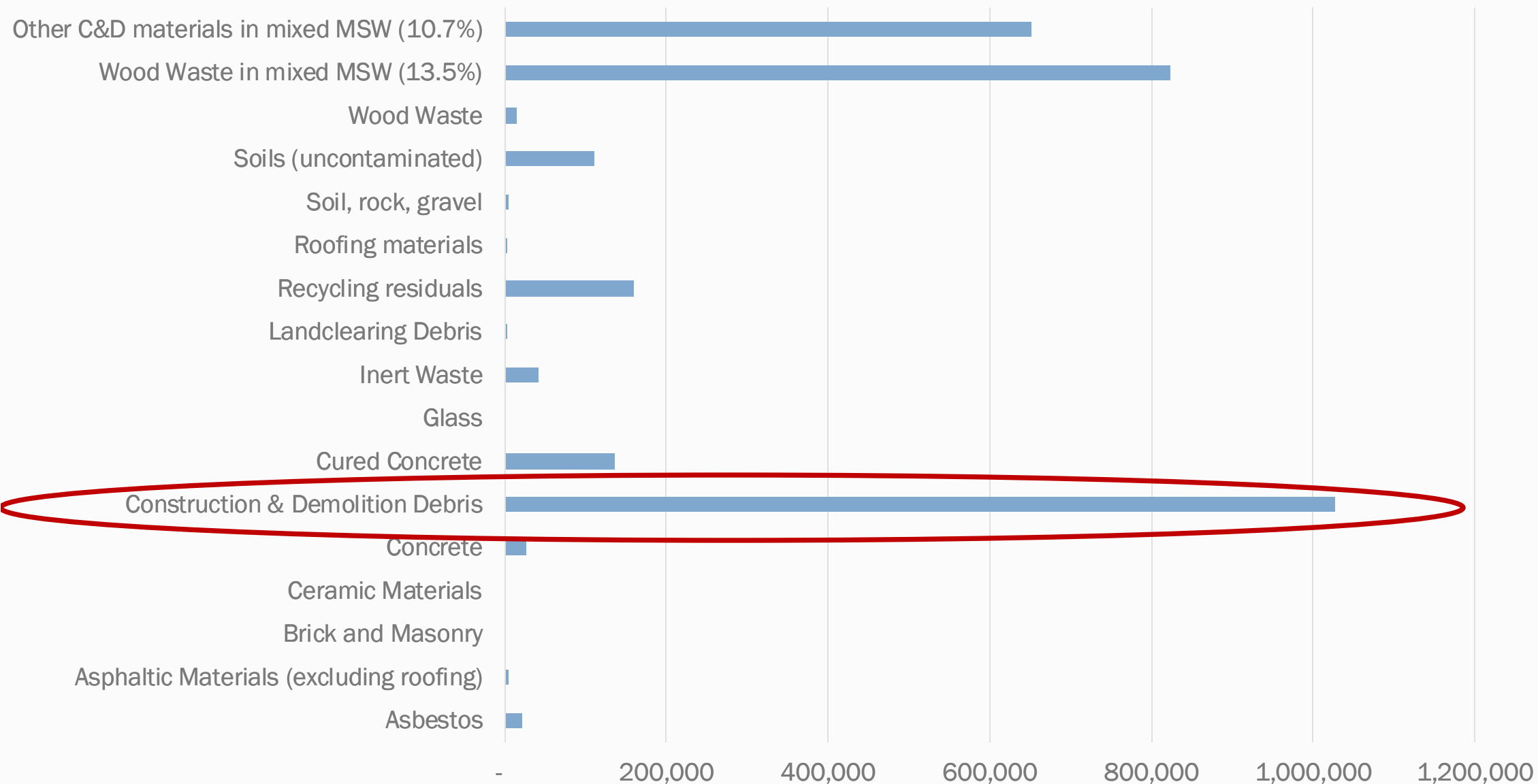
Drill down by category



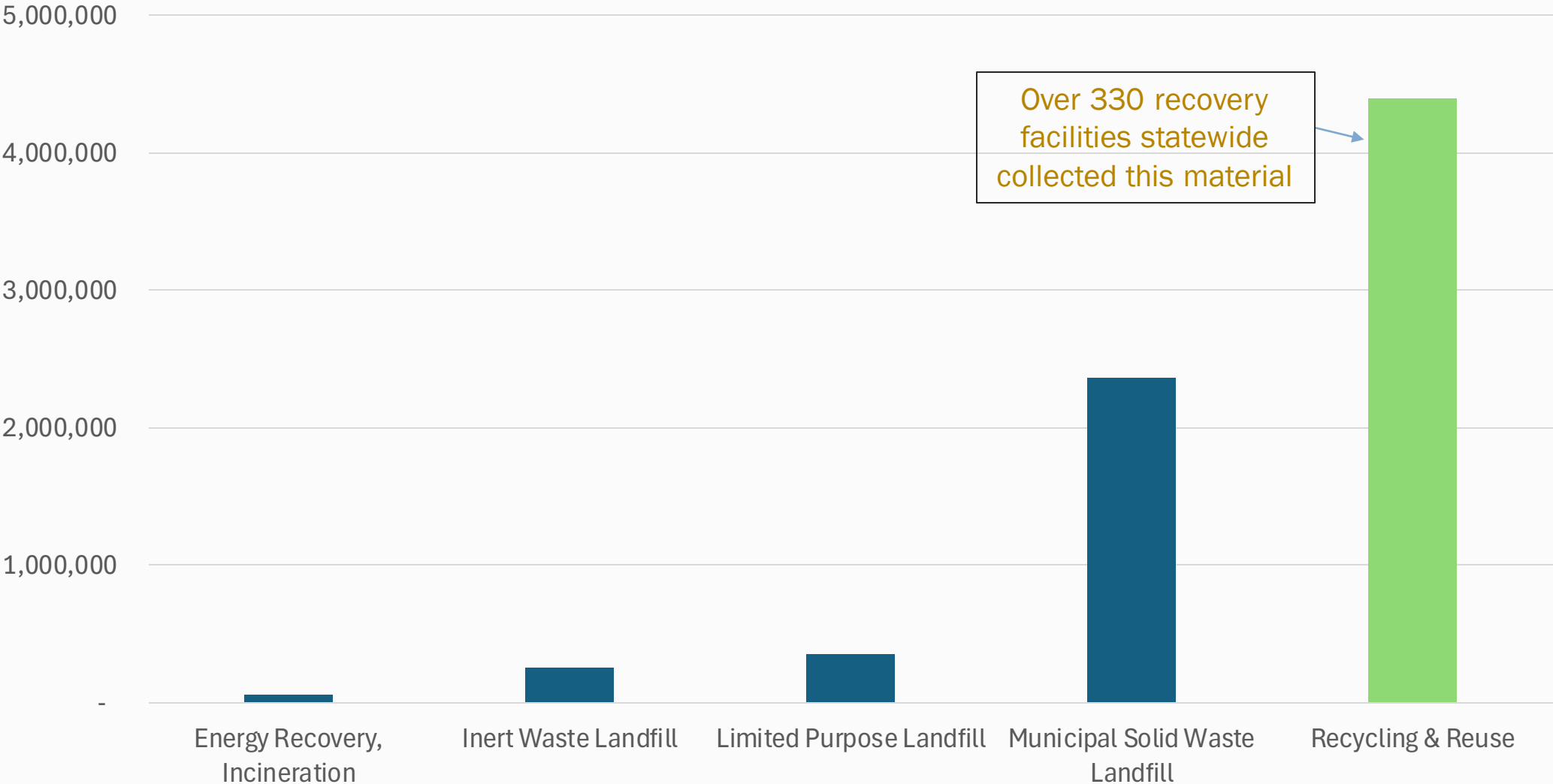
Source: [2020 – 2021 Washington Statewide Waste Characterization Study](#)
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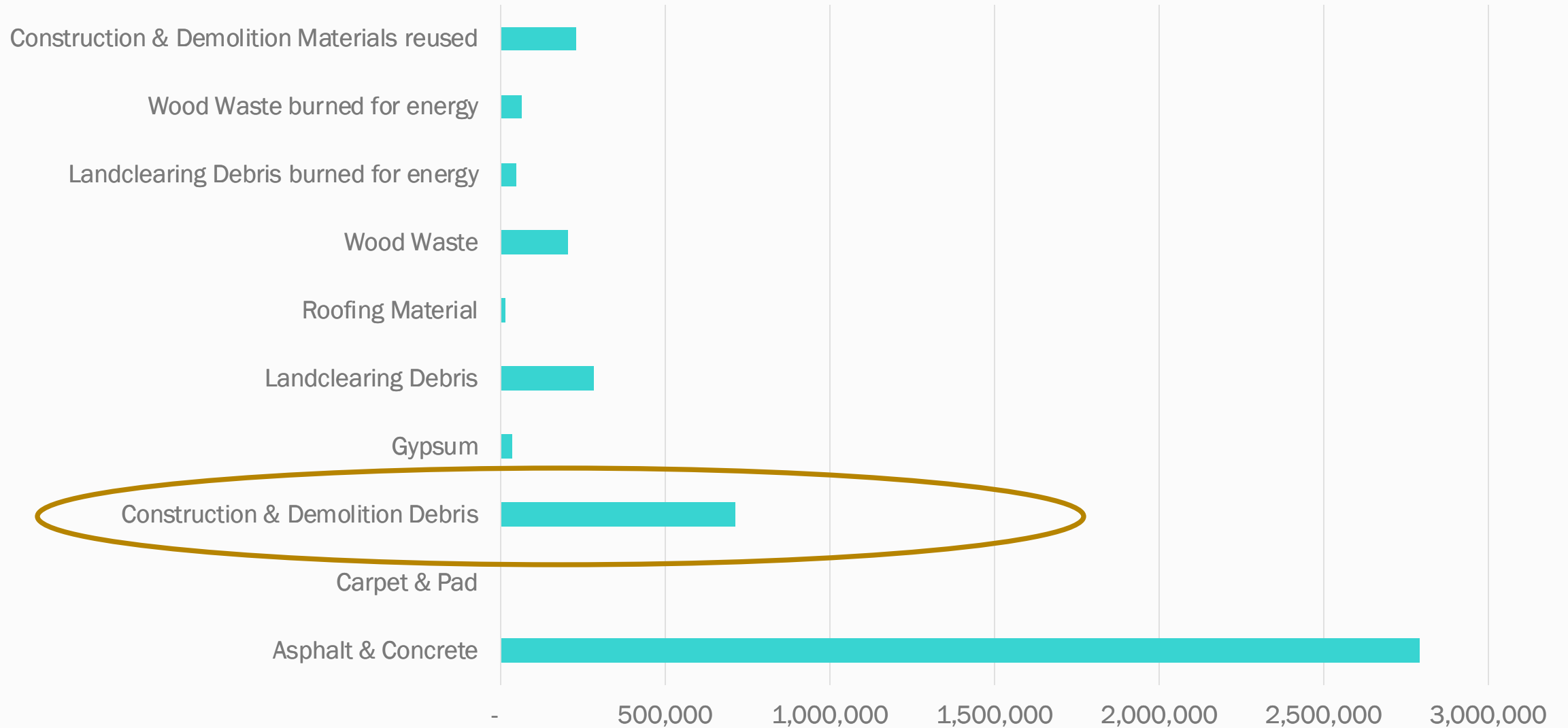
Disposed C&D materials reported (2021 tons)



C&D waste disposed and recovered (2021 tons)



Recovered C&D materials reported (2021 tons)

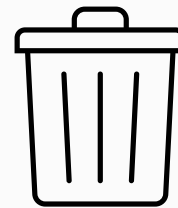
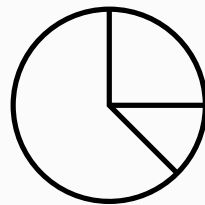
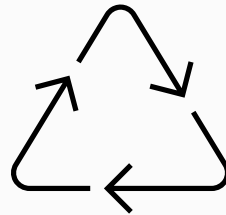


Managing C&D: City of Seattle

- City of Seattle: Municipal Code 21.36.089
 - Prohibits recyclable materials from being disposed with C&D waste, including concrete, bricks, asphalt paving, metal, cardboard, gypsum, unpainted and untreated wood, asphalt shingles, carpet, and plastic film.
 - Enforced by periodic inspection by Seattle Public Utilities
- Promotion of deconstruction and salvage vs. demolition

City of Seattle C&D, continued

- C&D specific waste composition studies in 1997, 2007, and 2017



City of Seattle C&D, continued

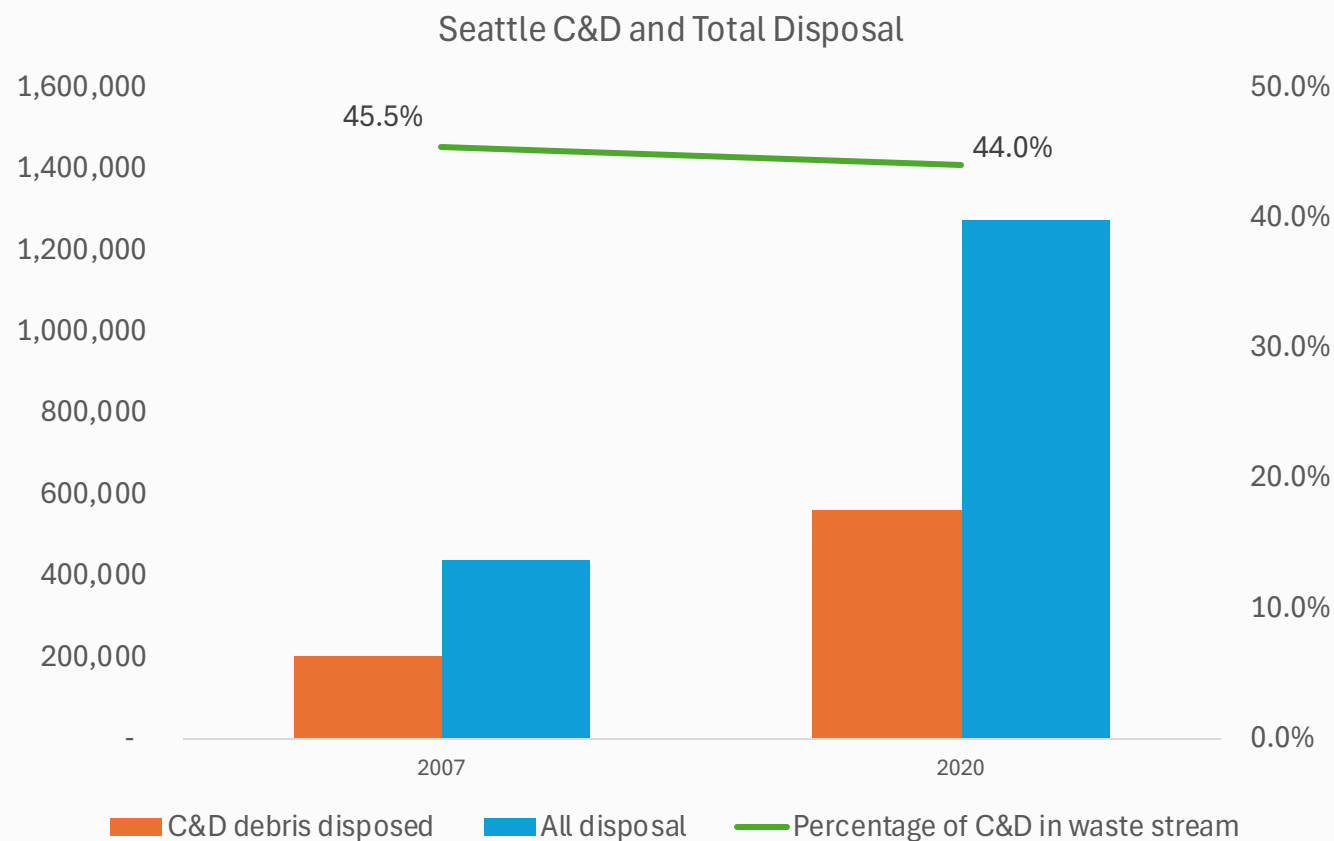
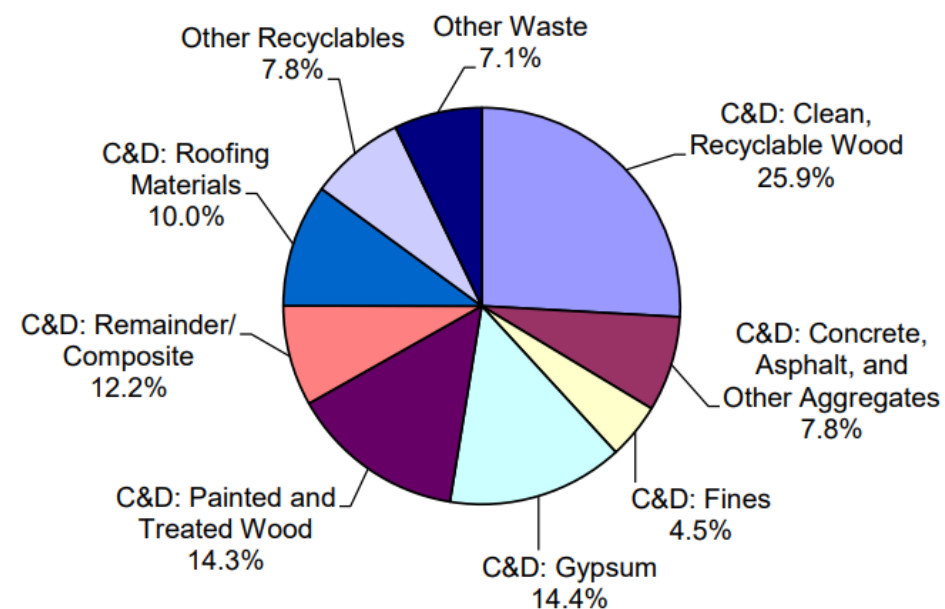


Figure 3-1: Composition Summary – Overall Disposed C&D (July 2013 – June 2014)



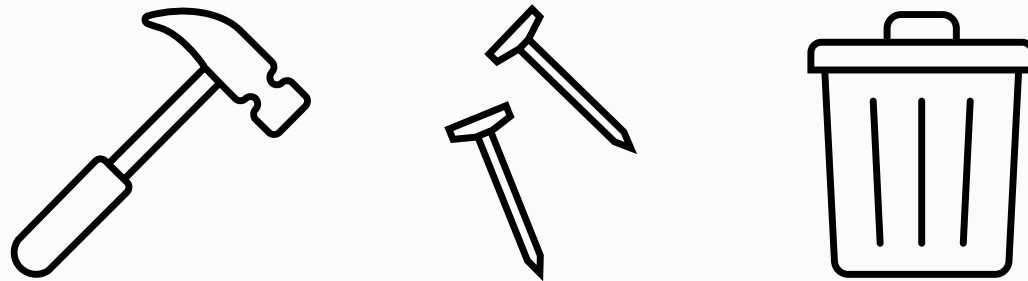
Gaps

- Markets for wood and other C&D materials are lacking
 - Facilities may not be separating recyclable wood waste or other C&D waste if there is not a favorable market.
- Incorrect reporting and tracking
 - Facilities may not provide material detail on annual reports
 - Categorization of individual materials such as “wood” or “C&D” may cause confusion/inaccuracy
 - Inconsistent methods of estimating tons

No statewide study of C&D composition has been done in WA

What can we do

- Statewide C&D waste characterization study for disposal and recovery streams
- Look into options for reinstating green building team/work group at ECY (dissolved in 2011 due to legislative proviso)
- Promotion of sustainable building materials, deconstruction and salvage vs. demolition





Questions?

Contact:

Gretchen.newman@ecy.wa.gov

Sources

- [Chapter 173-350 WAC](#)
- [2003 WA State Waste Composition Study](#)
- [2009 Washington Statewide Waste Characterization Study](#)
- [2015-2016 Washington Statewide Waste Characterization Study](#)
- [2020-2021 Washington Statewide Waste Characterization Study](#)
- [Seattle Solid Waste Director's Rule SW-405.2](#)
- [Construction & demolition – WA Department of Ecology](#)
- [Recycled Concrete Aggregate Leachate: A Literature Review \(wa.gov\)](#)
- [PCBs in buildings - Washington State Department of Ecology](#)
- [2007 CDL Waste Composition Study \(seattle.gov\)](#)
- [2020 Recycling Rate Report, Chapter 8 \(seattle.gov\)](#)
- [Alternatives to Demolition - King County, Washington](#)
- ECY Staff Interviews

**Let's take a
10 minute
break**



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11:30 Wrap Up



Washington State Redistribution Network

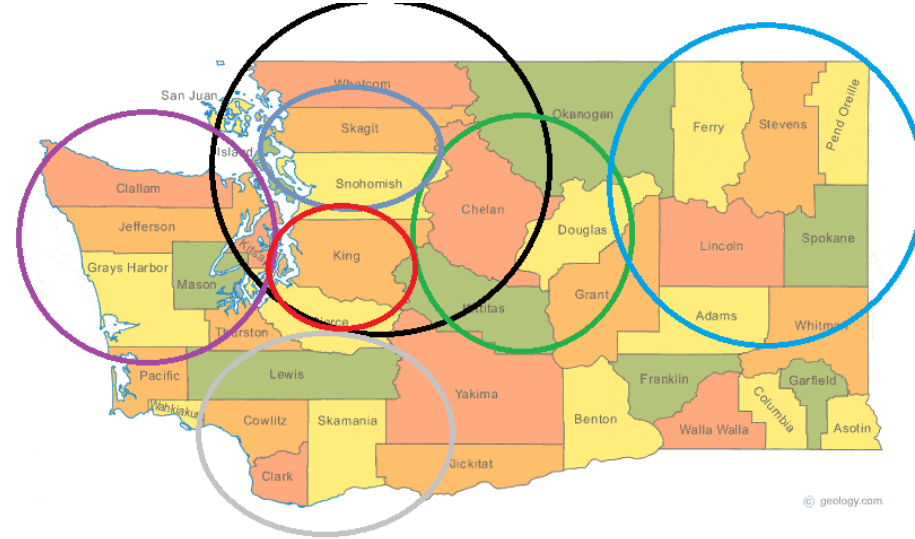
Dave Bennink

Building Deconstruction Institute
& Re-Use Consulting



Washington State Surplus - Tumwater

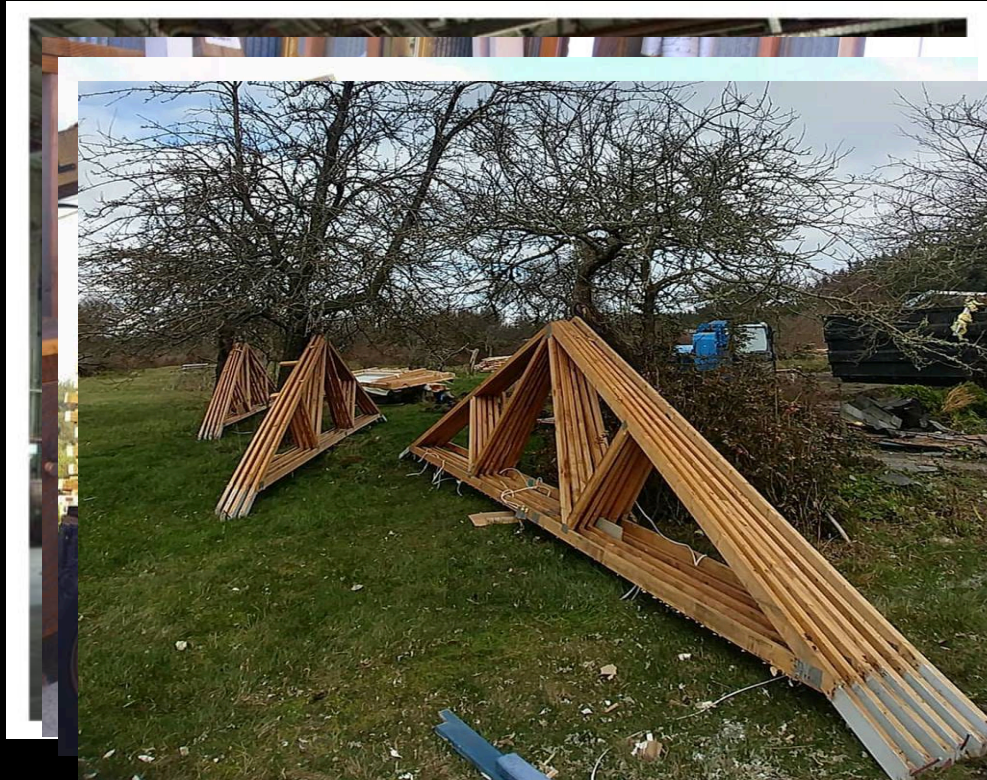
Washington State Redistribution Network



**Circular Construction: Where the Built Environment
and Circular Economy Intersect**

-Deconstruction Dave-

Re-Use Consulting



RE-USE

By the numbers:

100,000,000+ pounds
diverted from the landfill

5000+ jobsites

1500+ structures
deconstructed

500+ jobs created

98 Circular Businesses

Reuse Innovation
Centers

NYC,
Baltimore,
etc

Mid-block
Rowhouse
Practice



A LIFETIME'S WORTH OF WASTE

BUILDING DECONSTRUCTION INSTITUTE
www.reuseconsulting.com



The EPA states that Americans produce an average of **4.9** pounds of waste a day

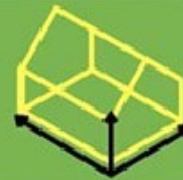
This adds up to about

135000 pounds of waste in 75 years, or one average **lifetime**



The average American home is 2,400 square feet and weighs about **55** pounds per square foot

This adds up to about **135000** pounds per home

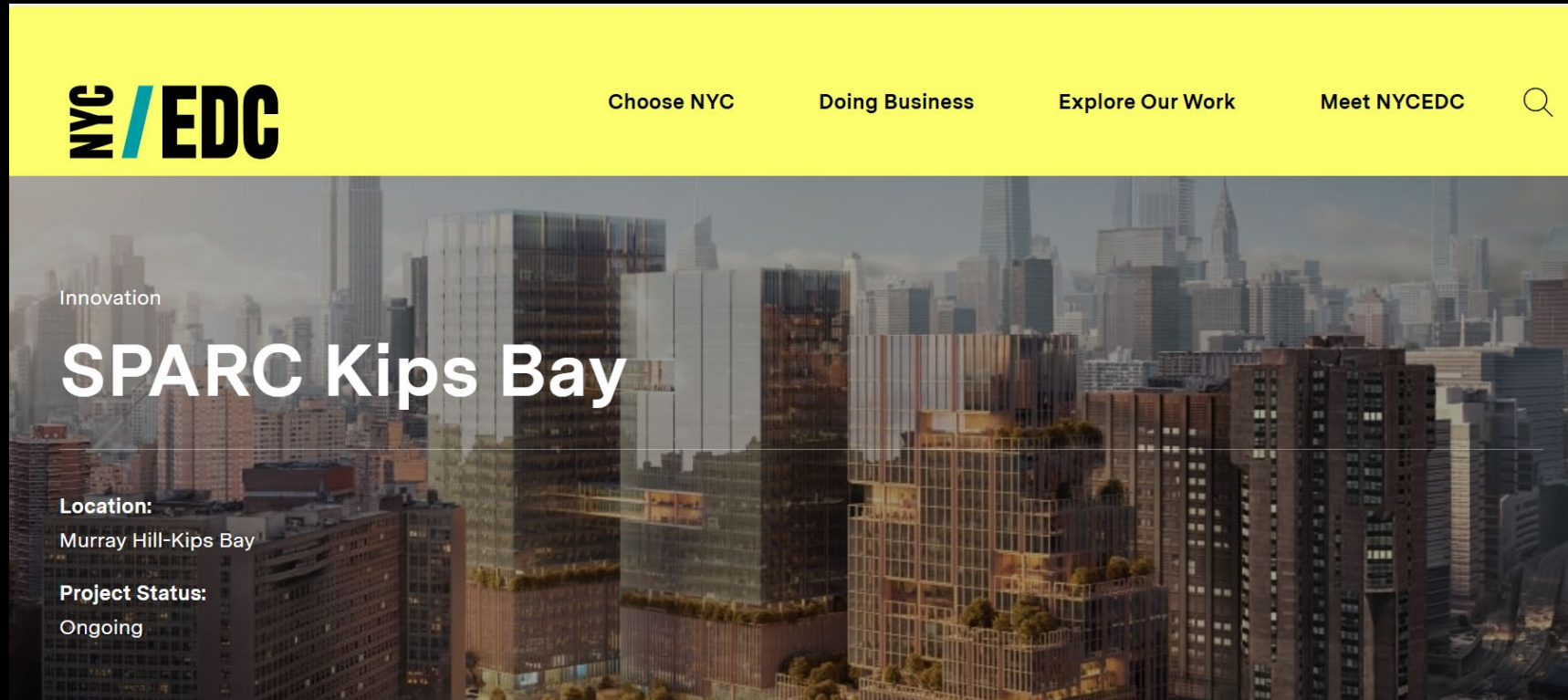


DEMOLITION OF ONE AMERICAN HOME IS EQUIVALENT TO A LIFETIME'S WORTH OF WASTE

Consider Building Deconstruction and ReUse to support an impactful circular and sustainable system



NYC's Flagship Circular Construction Project: \$2.1 billion SPARC Kip's Bay



This project will involve:
Hundreds of Green-Collar Jobs---Workforce development
Reuse-Repair-Recycling-Remanufacturing
Owner-reuse (existing materials incorporated into new buildings)

I'm building UP an industry that takes DOWN buildings...

- Deconstruction Contractor – thousands of job sites including homes, restaurants, sheds, hospitals, garages, schools, etc....
- Store owner – 21,000 square foot retail space selling an array of residential and commercial materials
- Consultant – Helped out in 44 States, 5 Provinces and 12 Countries
- Workforce Development – 1000+ jobs created and 98 Circular Businesses



25 Categories of materials –

- | | | |
|---------------------|-----------------|---------------------------|
| • 1. Doors | 9. Plumbing | 17. Masonry |
| • 2. Windows | 10. Yard/Garden | 18. Architectural salvage |
| • 3. Household | 11. Sheet goods | 19. Furniture |
| • 4. Hardware | 12. Roofing | 20. Finish wood |
| • 5. Electronics | 13. Insulation | 21. Post-Fabs |
| • 6. Lumber | 14. Cabinets | 22. Shelving/Garage |
| • 7. HVAC | 15. Appliances | 23. Building Materials |
| • 8. Flooring | 16. Antiques | 24. Plants/Landscaping |
| • 25. Miscellaneous | | |

Reuse Innovation Center

Process:

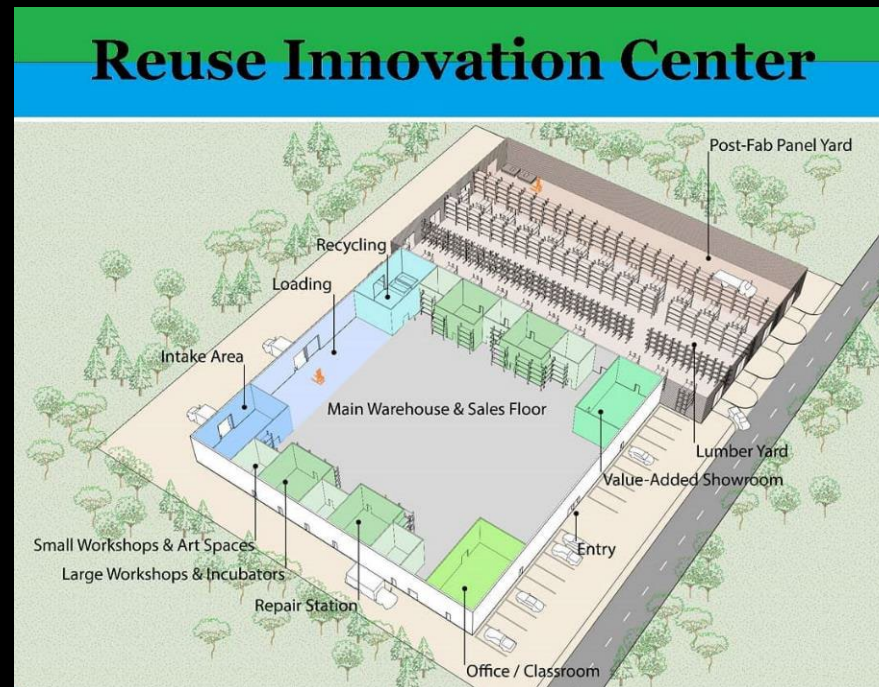
Collect used wood

Transport to RIC

Remanufactured

Placed in Showroom

Trainees involved in every step



Benefits:

20x more jobs

Job training—8 jobs in 1

90% Landfill Diversion

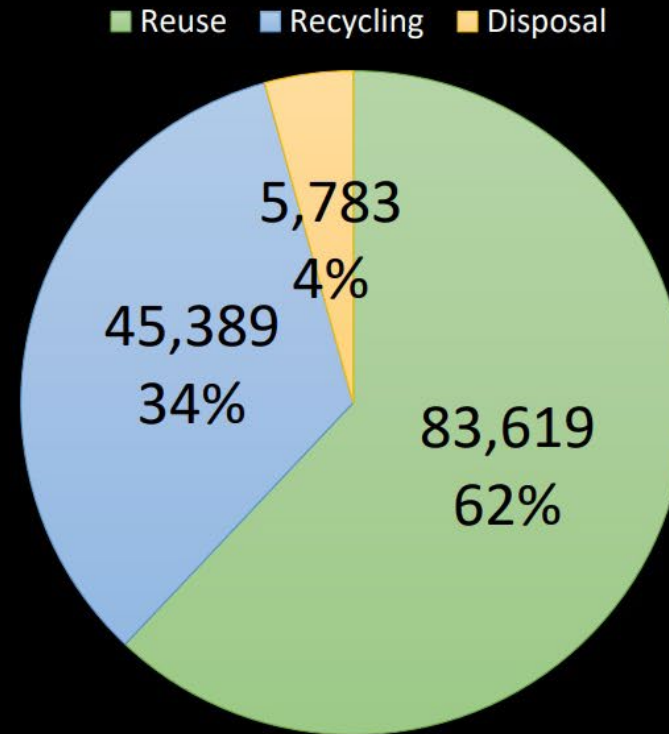
Diversity Achieved

Affordable materials

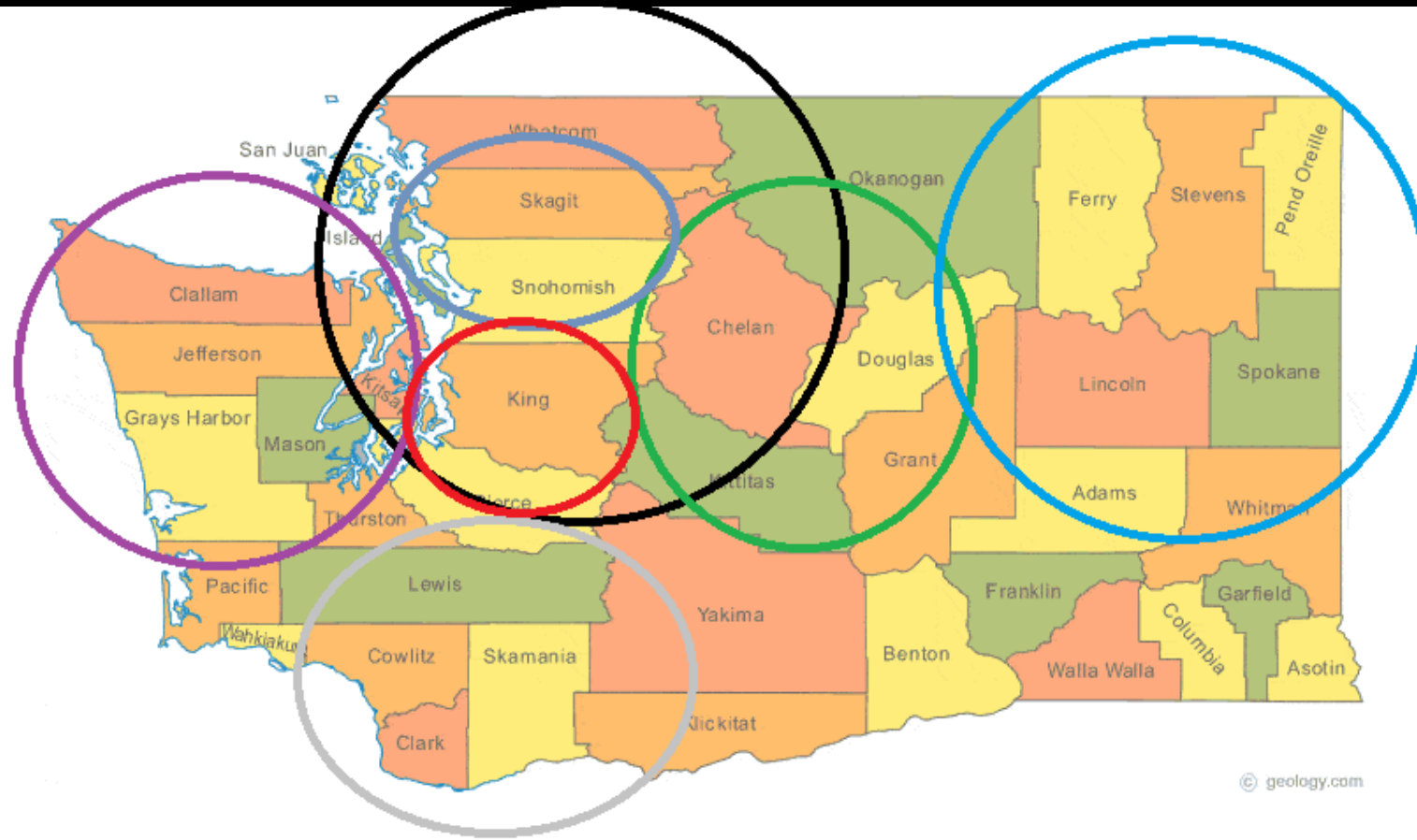
Total House Weight:
= **134,790 lbs.**
= **51 lbs. per sq ft**

Average lifetime worth of
waste for one person:
= **134,411 lbs.**

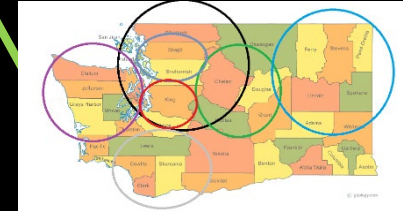
Materials Destination (lbs.)



WA: Redistribution Network



WA: Redistribution Network / Material Cycle





Reuse Innovation Center

The Washington State Redistribution Network

Insta: @DeconstructionDave
Consulting
Website: www.reuseconsulting.com

Facebook: Re-Use
Linkedin: Dave Bennink



Seattle Wood Circularity Loop

Katie Kennedy
Seattle Public Utilities



Washington State Surplus - Tumwater



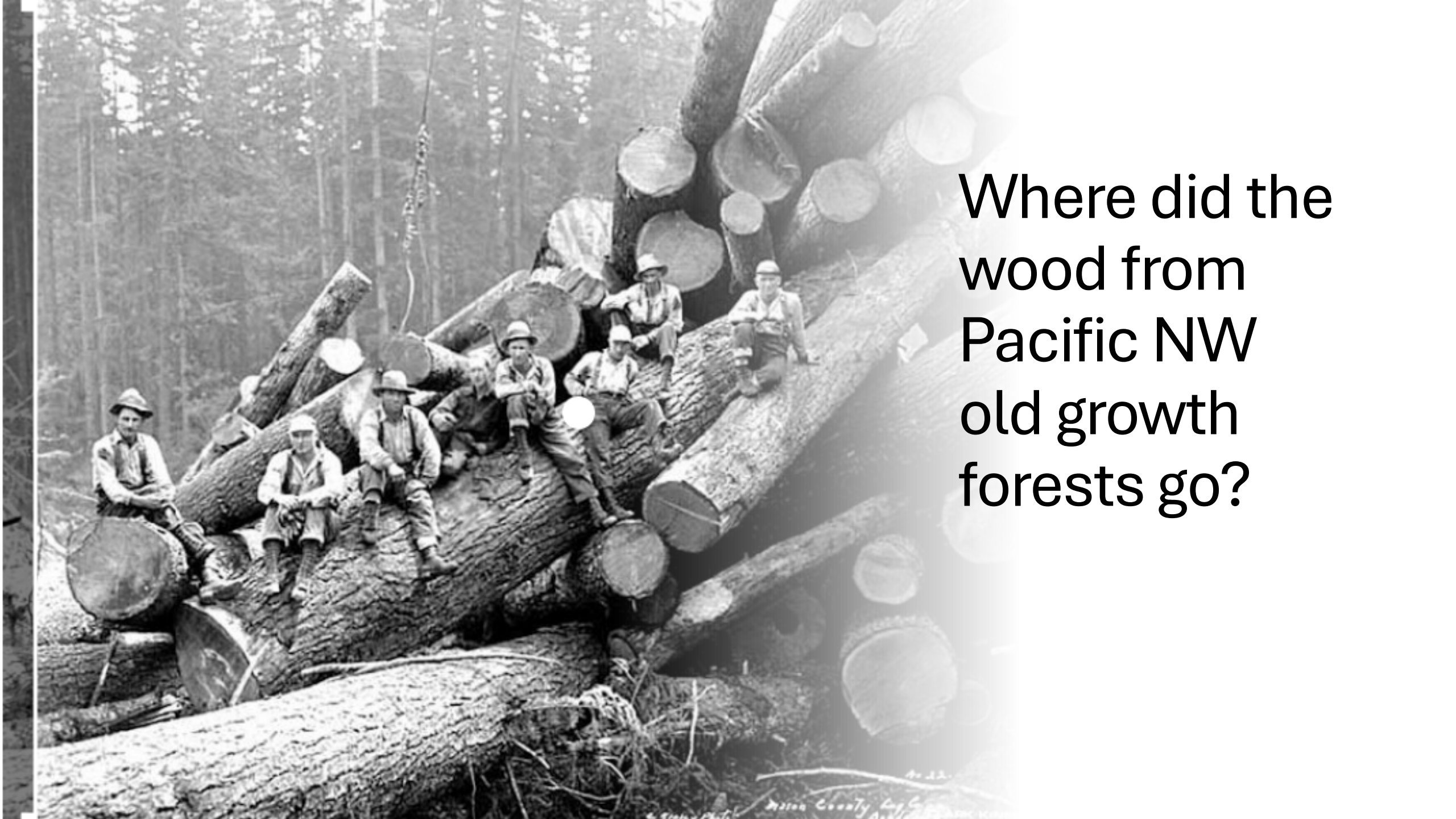
Seattle Wood Circularity Loop

Recycling
Development Center
Board Meeting

July 10, 2024



Photo Credit: Benjamin Benschneider

A black and white photograph showing a group of approximately ten loggers sitting on a large pile of cut logs in a forest. The loggers are wearing hats and work clothes. The logs are stacked in a way that creates a large, sloping structure. The background shows a dense forest of tall trees. The text "Where did the wood from Pacific NW old growth forests go?" is overlaid on the right side of the image.

Where did the
wood from
Pacific NW
old growth
forests go?

Potential Demolitions Since 2010

Select a Use Category
All Uses

KCA Details

Select a 2010 tax parcel with a potential demolition from the map to see the details.

◀ 1 of 50 ▶

Demo Permit Details

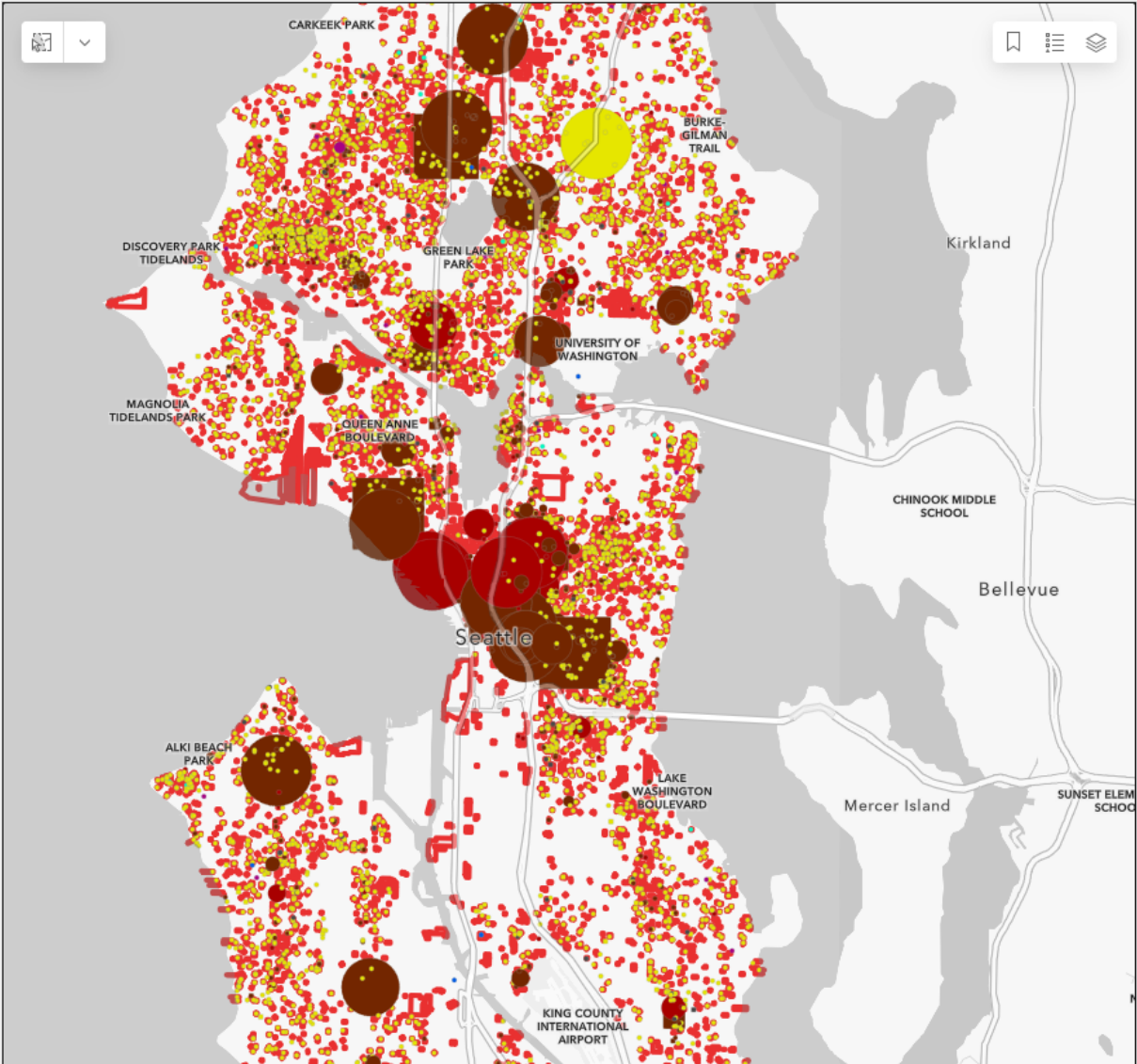
715 28TH AVE E
Building Permit: [6818737](#)

Permit Finaled

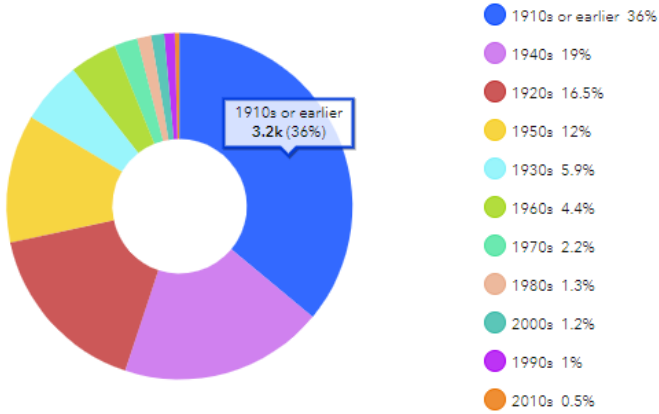
Application: 4/16/2021
(application to issuance: 143 days)
Issued: 9/6/2021

2023 KCA Details

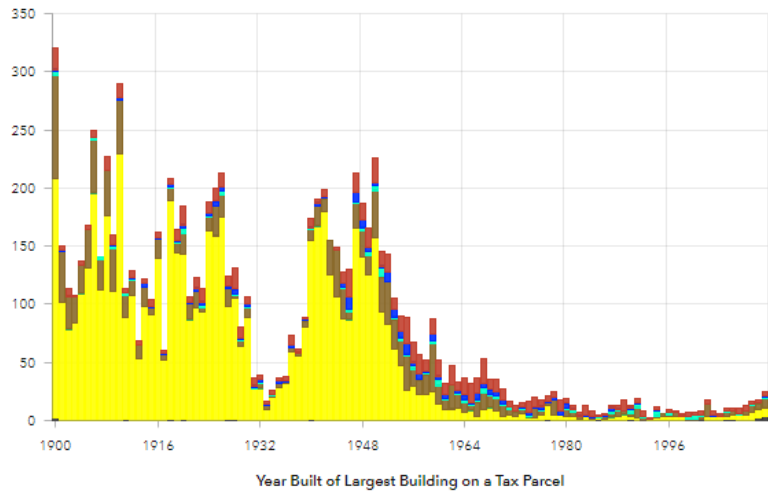
Select a 2023 tax parcel from the map to see the details.



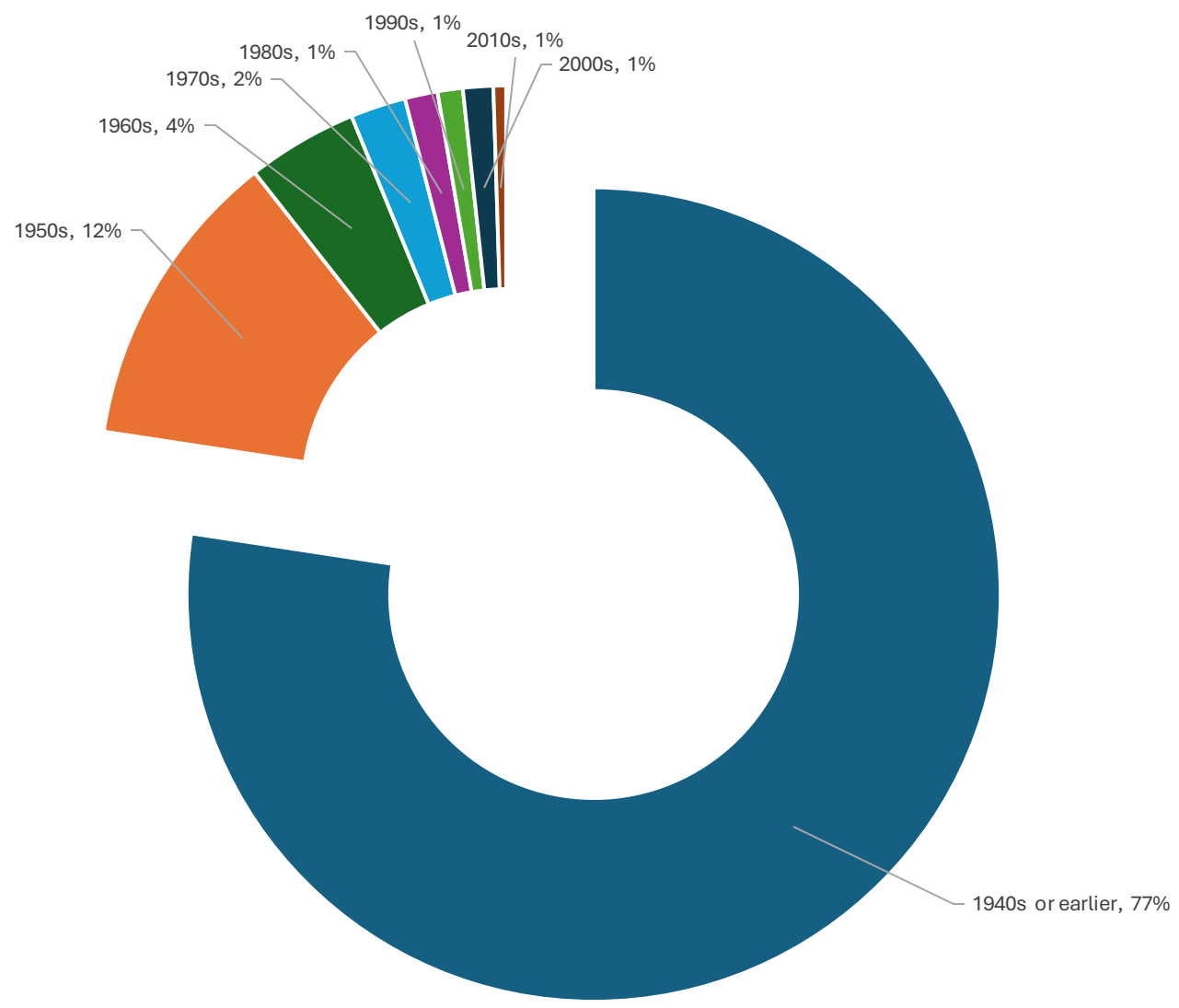
Decade Built of Buildings Potentially Demolished since 2010



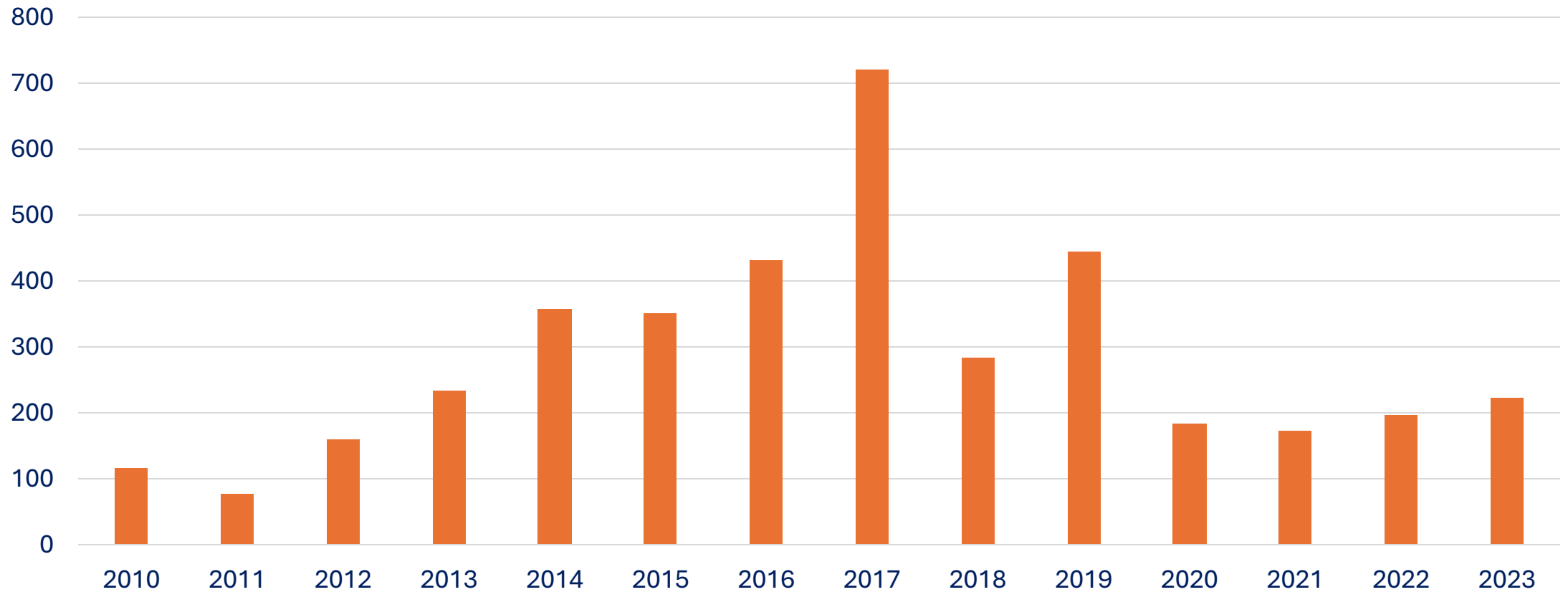
Year Built of Buildings Potentially Demolished since 2010



77% of Single-family homes demolished since 2010 were built in the 1940s or Earlier

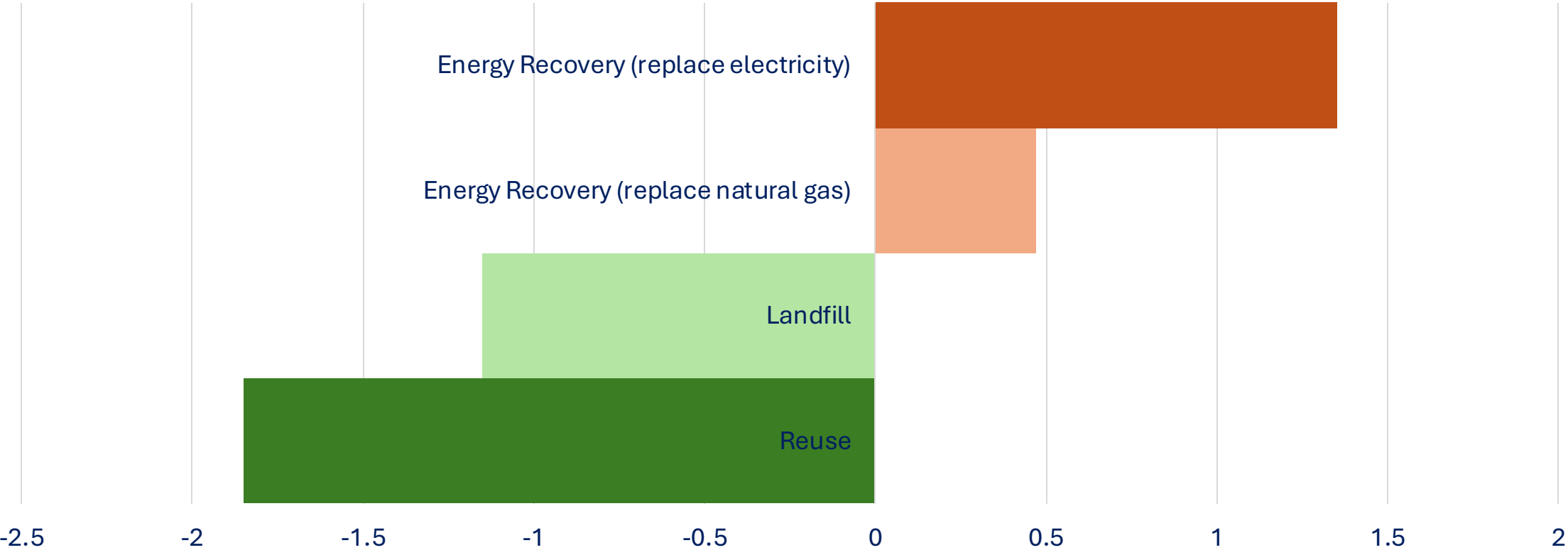


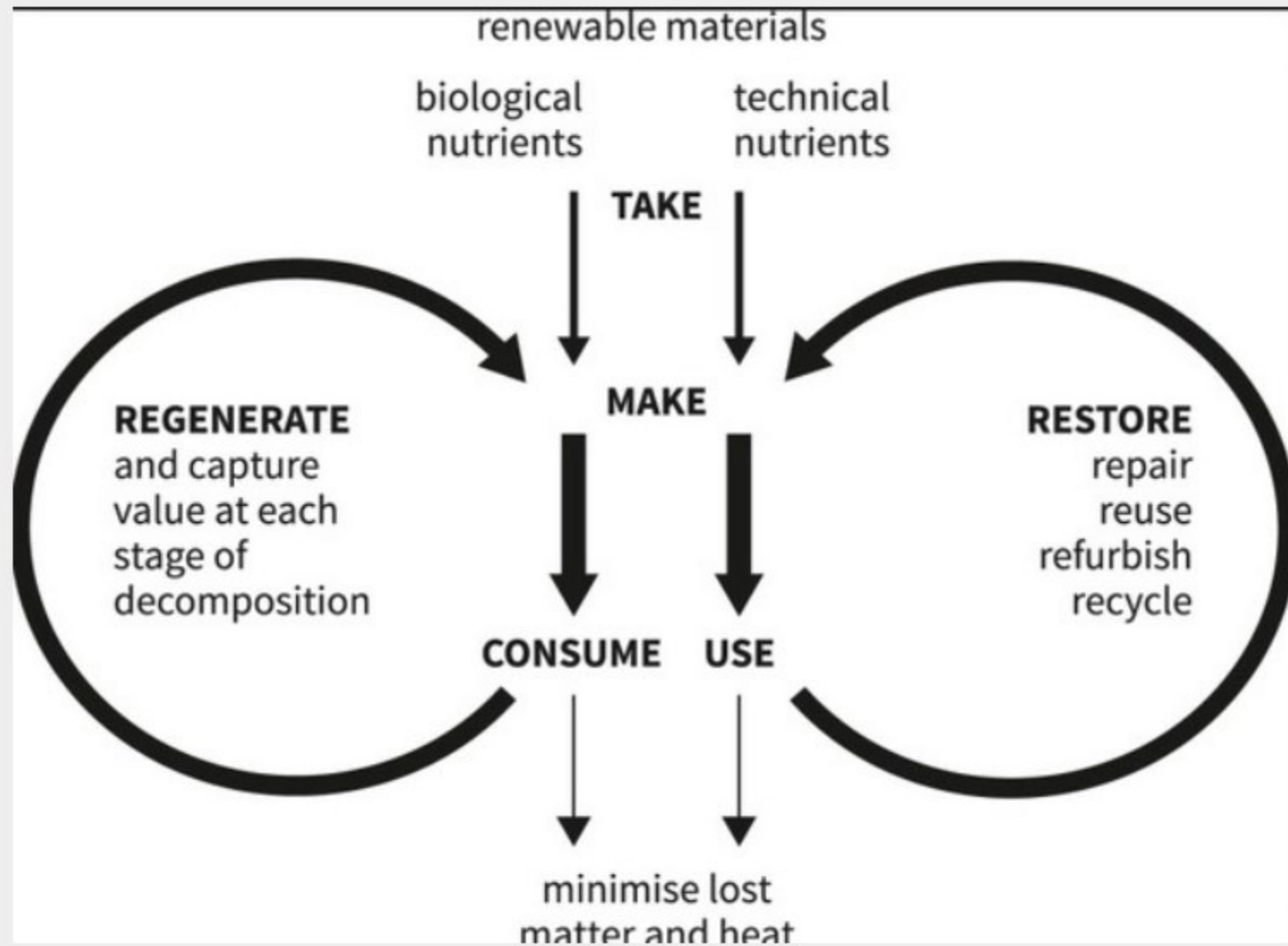
Demolitions of Single-family Houses in Seattle, 2010-Present



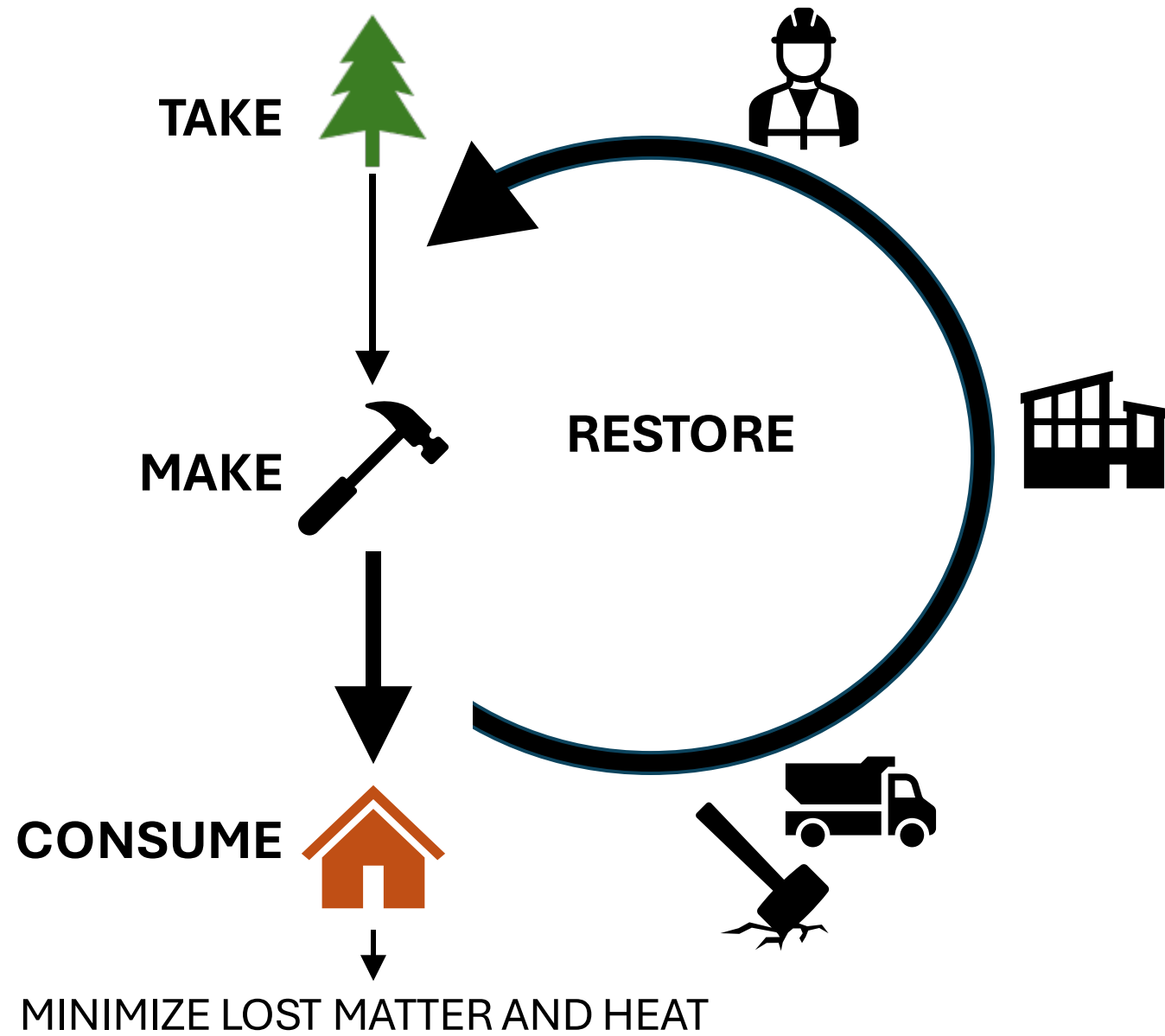
99% of recovered C&D wood: boiler fuel

Carbon stored, released and offset from End Of Life fates for wood (kg CO₂eq/kg wood)



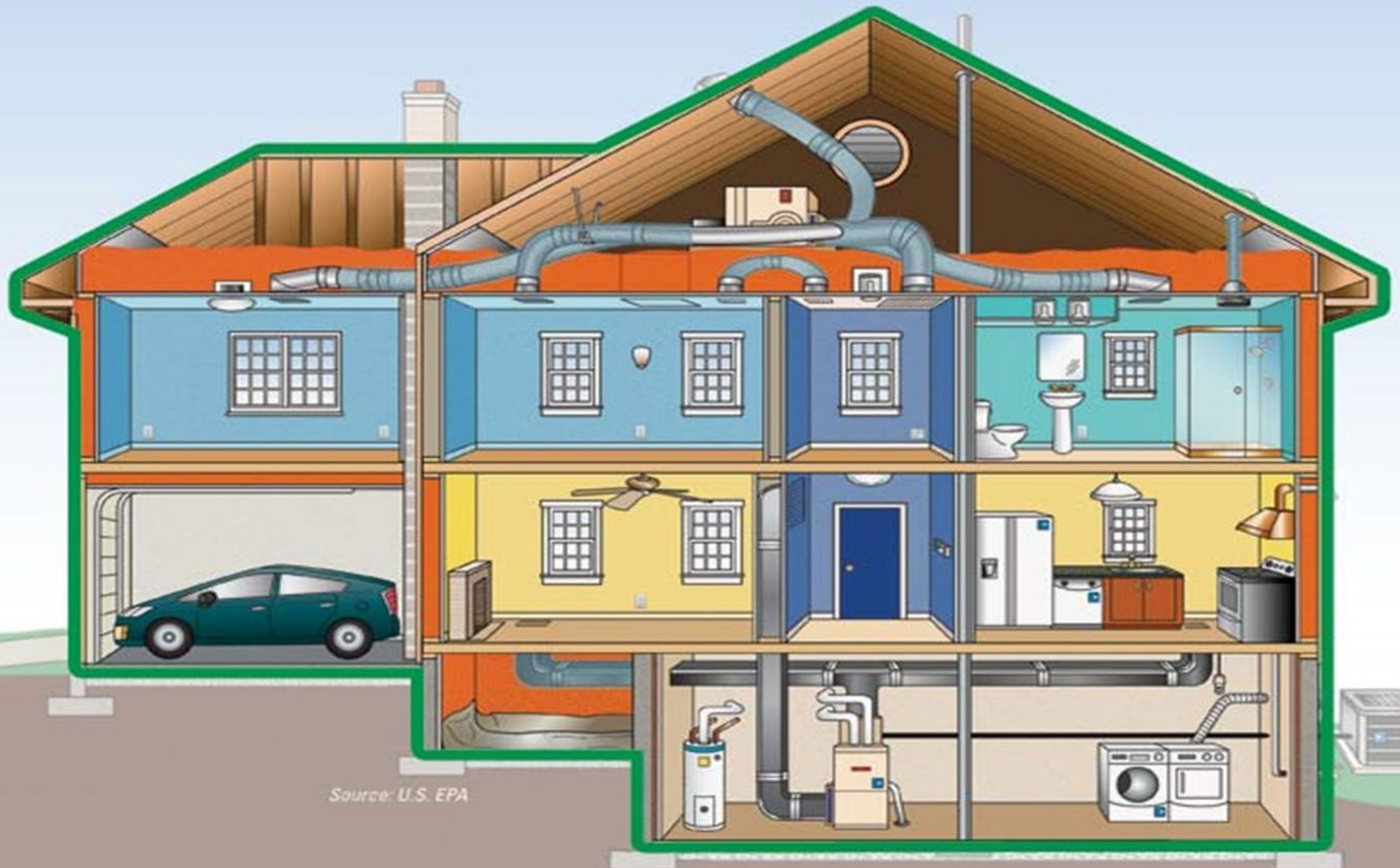


— The butterfly economy: regenerative by design.





Salvage professionals remove items of value from a building prior to demolition.



Source: U.S. EPA



Credit: Sledge Seattle

Pilot Deconstruction Incentive Program

Summary

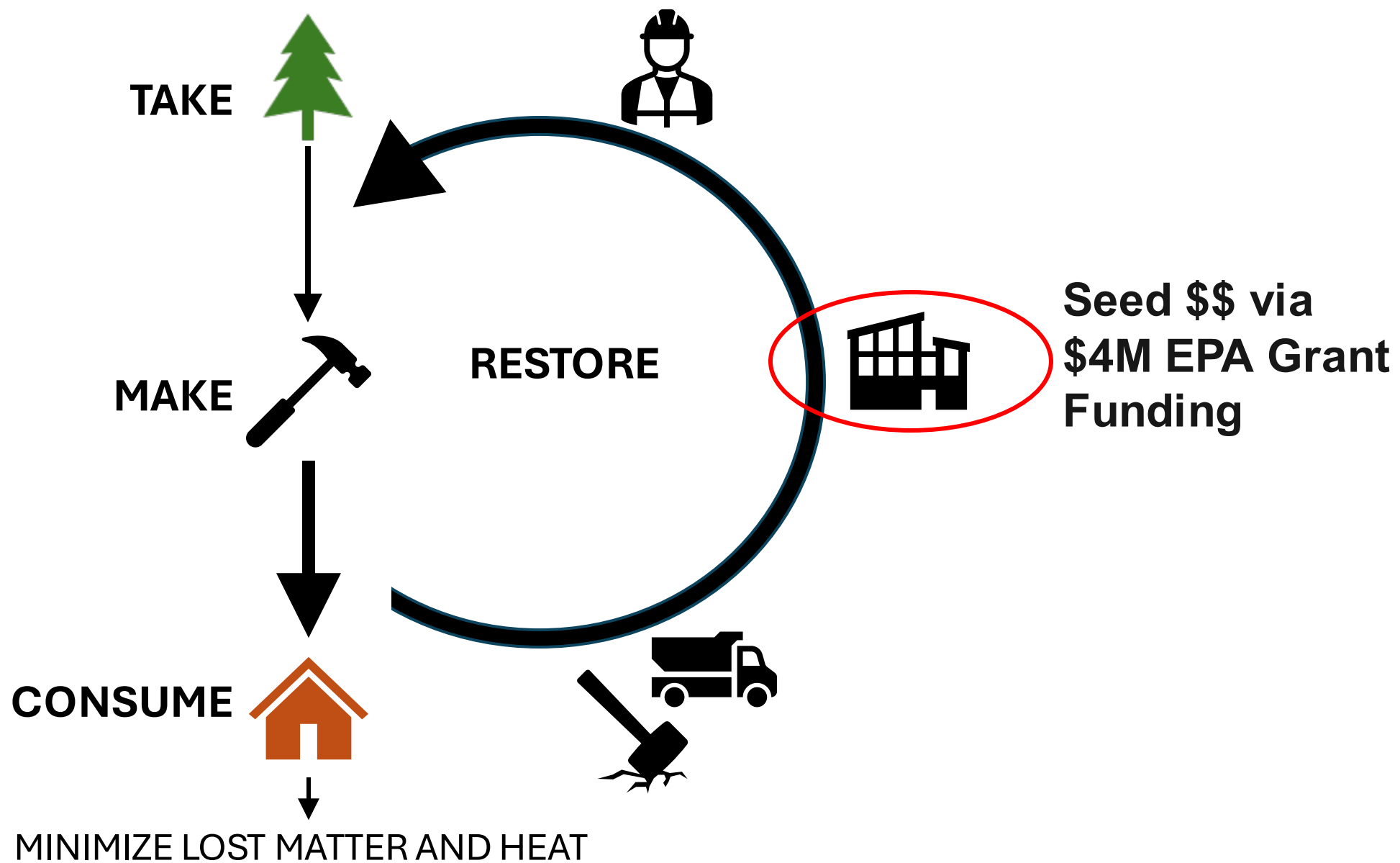
- \$4,000 per deconstruction project
- Must use approved deconstruction contractor
- Residential, wood-framed buildings are eligible
- Pilot program started late 2022
- Also, expedited electrical disconnects



Deconstruction Incentive Program

- Started November 2022
- 21 applications so far
- Year built: average is 1917, oldest built in 1900, newest built in 1940
- An average of 5 tons of wood recovered from each house, which were avg. 1,700 sq feet
- We are hearing that the incentive is working! It's making deconstruction more appealing
- Anticipate expanding to commercial buildings





EPA Solid Waste Infrastructure (SWIFR) for Recycling Grant



EPA awarded \$4,000,000 to City of Seattle for 3-year term



Will support the establishment of a salvaged wood warehouse



Warehouse will receive wood salvaged from deconstructed homes and remodeling projects



Ideally accept new construction scrap as well



Missing component in our local circular wood economy

Ecology Local Solid Waste Funding Assistance (LSWFA) Grant



Funding \$1.3M in projects this cycle (mid-2023 through mid-2025)



For the first time, SPU is using funds to support new work: 1) piloting furniture reuse events at the transfer stations and 2) supporting an “Urban Machine”



Urban Machine is a robotic piece of equipment that removes hardware (nails, screws, and staples) from wood



The Urban Machine will be located and used at the Salvaged Lumber Warehouse

Urban Machine



Where we will focus now...

- Supporting current contractors and training more
- Ensuring supply to the warehouse from a potential deconstruction ordinance
- Building demand for salvaged lumber







How to Build a Local Circular Wood Economy

What's Seattle's foundation?

- Values - residents have a shared ethic of environmentalism
- High construction activity
- City of Seattle has a zero-waste vision
- Building salvage stores
- Deconstruction contractors that have operated here for 30 years

What do we still need in our toolbox?

- More deconstruction contractors
- Warehouse where processing, sorting, and sales can occur
- Ordinance to require deconstruction
- Increased demand and awareness from builders
- Political feasibility



Thank you!

Katie Kennedy

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HB 1282 Buy Clean & Buy Fair Washington

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Department of Commerce
State Efficiency & Environmental
Performance (SEEP)



Washington State Surplus - Tumwater

Buy Clean and Buy Fair Washington

HB 1282

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SEEP DIRECTOR

07/10/2024



Washington State
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We strengthen communities



HOUSING AND
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DEVELOPMENT

Buy Clean and Buy Fair

- **Buy Clean:** Leveraging Environmental Product Declarations (EPDs) to report on the environmental impacts associated with the production of concrete, steel and wood used in state building construction projects.
- **Buy Fair:** Reporting on working conditions at manufacturing facilities to ensure that the transition to low-carbon manufacturing creates high-road jobs that support communities throughout our state.



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Figure 1. Embodied carbon (yellow) and operational carbon (blue) across the key life cycle stages of a building.

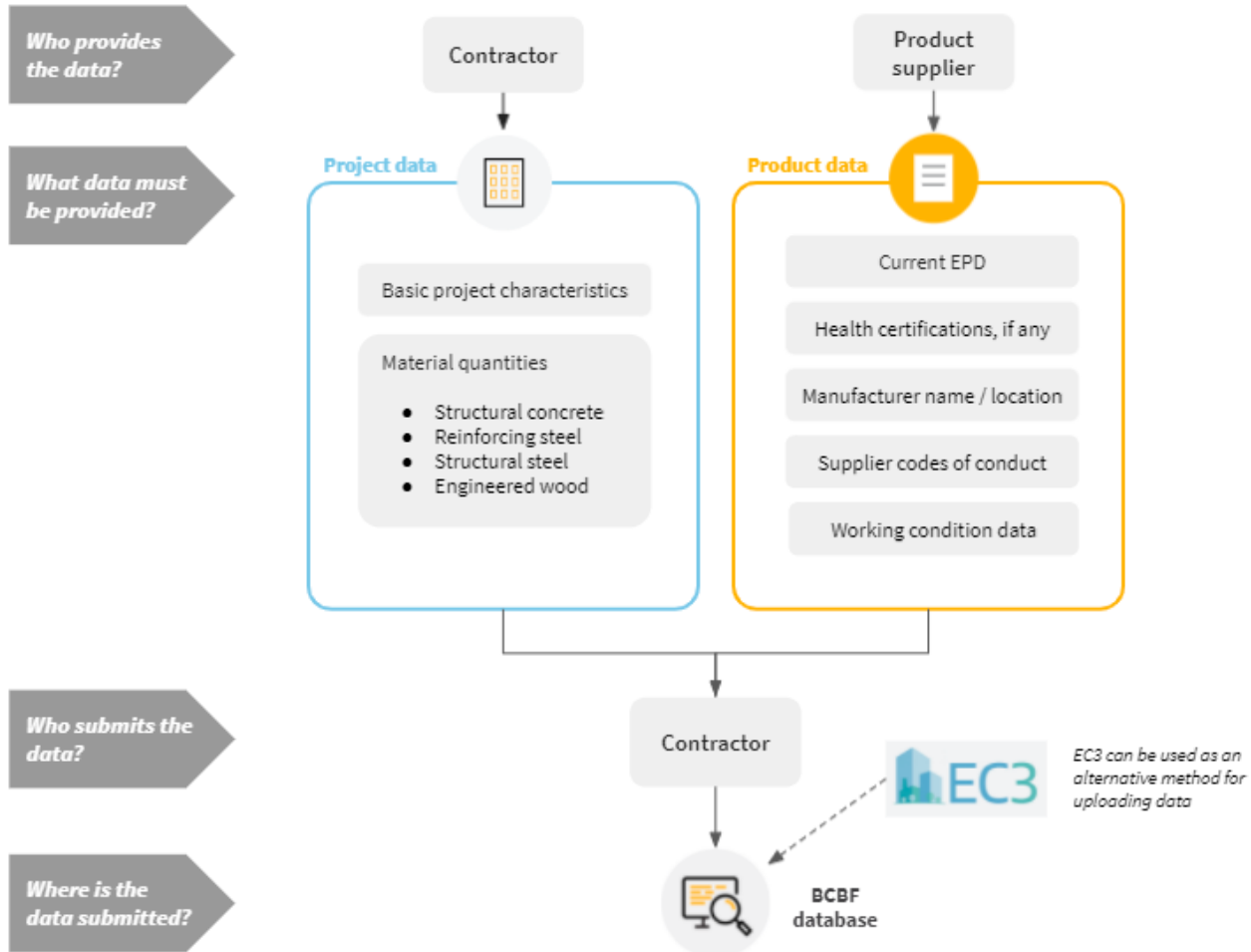
Reporting requirements

- **Reporting:**
 - Type III supply chain-specific environmental product declarations (EPDs) and workforce data
 - Covered products: structural concrete, reinforcing steel, structural steel, engineered wood
 - Covered projects: new state agency and higher education building construction projects and major renovations over 50,000 square feet (the first two years of reporting are limited to projects over 100,000 SF)
 - Includes a provision that would suspend reporting requirements for specific projects where these requirements would cause significant cost increases or delays

Other provisions

- **Centralized reporting database**
- **Technical working group**
 - Includes state agencies, manufacturing and construction industry representatives, the University of Washington, environmental groups, Office of Minority & Women's Business Enterprises (OMWBE)-certified businesses, and others
- **Financial assistance for EPD generation at small and diverse-owned businesses**
 - Not funded– but stay tuned for updates about federal funding opportunities (EPA announcement expected mid-July)

Reporting requirements



- Basic project information
- Product quantity
- Current EPD
- Health product declarations*
- Manufacturer name/location
- Workforce data
- Supplier codes of conduct*

*If any

Implementing Buy Clean and Buy Fair

- **Climate Commitment Act funding**
 - Budget bill delays expenditures until after January 1, 2025
 - Likely to delay implementation
- **Next steps**
 - Planning activities– staff position descriptions, implementation work plan, internal coordination
 - Laying groundwork for the technical work group
 - Responsible for two legislative reports
 - Policy and program recommendations
 - Low-carbon materials market development
 - Membership includes design & construction experts, manufacturing industry representatives, state agencies, labor unions, environmental groups, and other partners

Related work

- **Model specifications and educational resources**
 - Funding from US Climate Alliance
 - Partner: Carbon Leadership Forum
 - Specifications & training videos should be available in September or October
- **Federal-state Buy Clean Partnership**
 - Collaboration between states and federal agencies including the White House, FHWA, GSA, FEMA, HUD, and others
- **Pacific Coast Collaborative Low-carbon Construction Task Force**
 - Collaboration with west coast partners & jurisdictions

PCC Low-Carbon Construction Task Force

- **Vision and Action Plan**

- Pathway 1: Build regional demand for low-carbon construction
 - Increase awareness of and access to salvaged and reused construction materials
 - Support deconstruction ordinances and bylaws and/or salvage material minimums to limit demolition and encourage reuse of materials
- Pathway 2: Encourage growth of regional supply of low-carbon construction materials and services
 - Develop a guide highlighting available products that are salvaged and reused within the region
 - Support regional infrastructure for reuse of building and infrastructure materials
- Pathway 3: Build strategic partnerships

Q&A and discussion

- Additional embodied carbon resources can be found at carbonleadershipforum.org
- Feedback encouraged and collaboration is welcome!





Washington State
Department of
Commerce

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Thank you!

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SEEP DIRECTOR

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360-764-0015

Wrap Up



Tasks from today:

- Notes and slides from today will be posted to the Advisory Board website soon.
-



Next meeting:

- Wednesday, October 9th, 2024
 - Zoom: 9 am to 11:30 am (Pacific)
-



Tours:

Jefferson County facilities (time, date to be determined)



NextCycle Washington:

- Pitch showcase Monday September 23rd, 2024
- Seattle Public Library Central/Downtown (in-person only)



Thank you to our
speakers and
everyone that
attended!

See you all at the October 9th board meeting!



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