



Reuse Innovation Center

Completing the Cycle: Building UP an Industry That Takes DOWN Buildings

Dave Bennink Owner

Image: Reuse of a

reuse store

- -100,000,000 pounds
- -10,000 acres forest preserved
- -5000 projects
- -500 jobs
- -44 States/4 Provinces
- -36 reuse operations
- 1 mission



Section 1: 30 years of taking buildings apart and selling the parts

5 Focus Areas:

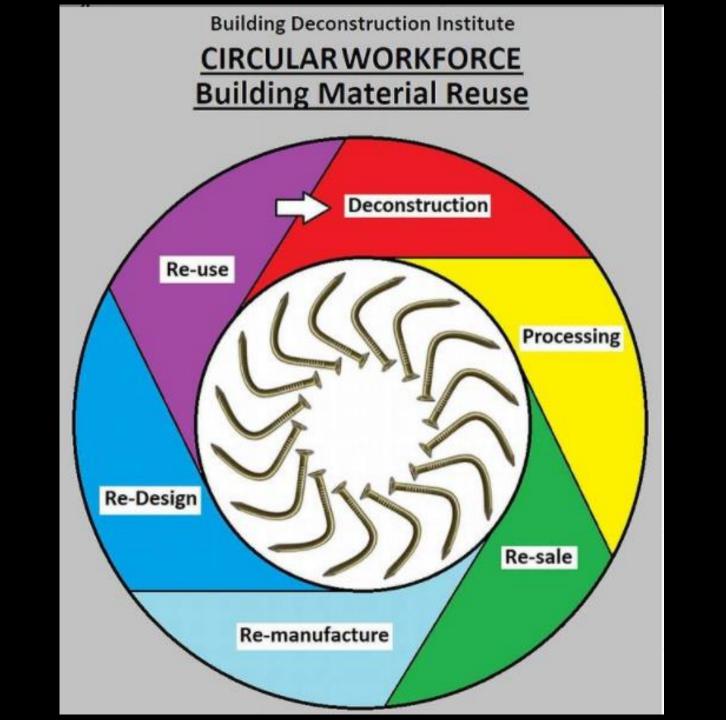
- Historic Preservation
- Environment / Climate
- Affordable housing / materials
- Job creation (NEW green jobs)
- Equity / Sustainability



#1 SCALE and Equity



Section 2: Deconstruction 101



A LIFETIME'S WORTH OF WASTE

BUILDING DECONSTRUCTION INSTITUTE www.reuseconsulting.com



The EPA states that Americans produce an average of 4.40 pounds of waste a day

This adds up to about
120,000 pounds of waste in
75 years, or one average



The average American home is 2,400 square feet and weighs about 50 pounds per square foot

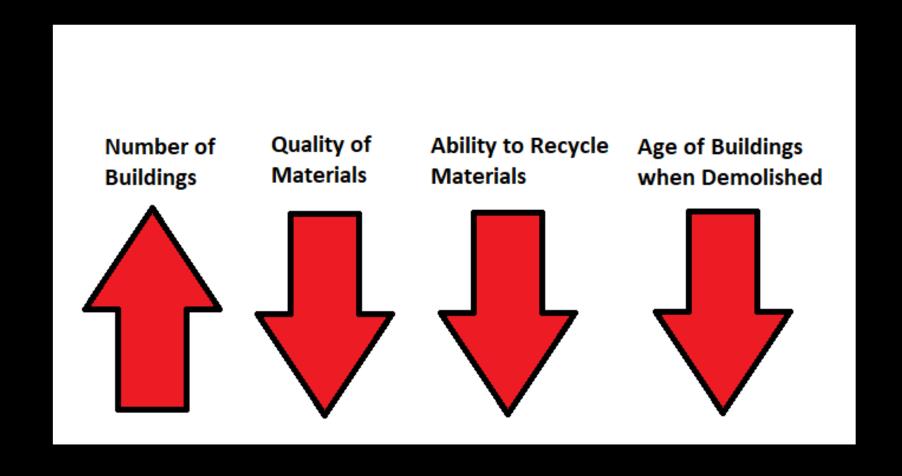
This adds up to about



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

The Cycle of Waste is Accelerating





25 Categories of materials – from 1800s to 2022

- 1.Doors
- 2.Windows
- 3. Household
- 4. Hardware
- 5. Electronics
- 6. Lumber
- 7. HVAC
- 8. Flooring
- 25. Miscellaneous

- 9. Plumbing
- 10. Yard/Garden
- 11. Sheet goods
- 12. Roofing
- 13. Insulation
- 14. Cabinets
- 15. Appliances
- 16. Antiques

- 17. Masonry
- 18. Architectural salvage
- 19. Furniture
- 20. Finish wood
- 21. Post-Fabs
- 22. Shelving/Garage
- 23. Building Materials
- 24. Plants/Landscaping

Introduction to Deconstruction – Help Wanted



'Designed for Demolition'

Construction Adhesive

Spray-Foam Insulation

Fasteners

Other challenges we face



Commercial Building Materials

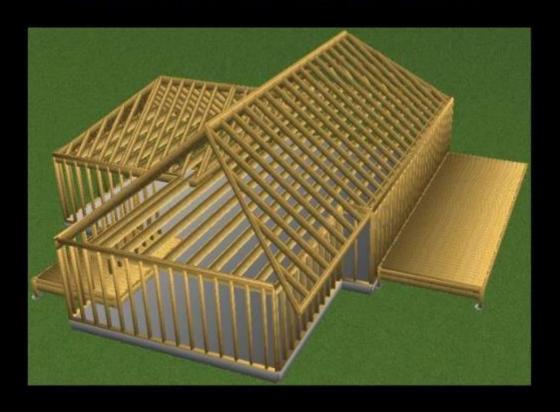
Generally higher value
Generally in larger quantities
Specialized
Demand must match supply



Section 3: Successful Approaches/Strategies

How to Structure a Reuse Business

Focus on what we want



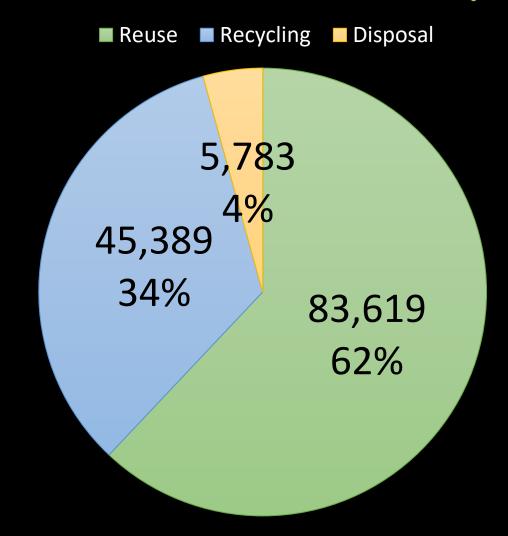
Materials Destination (lbs.)

Total House Weight:

= 134,790 lbs.

= 51 lbs. per sq ft

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



Green-Collar Jobs

Inner-city youth Homeless vets Previously incarcerated

Training business owners



Salvage Only



Value-Added Antiques



Portland, OR
Deconstruction
Ordinance

Trained all the contractors

Consulting

Infrastructure

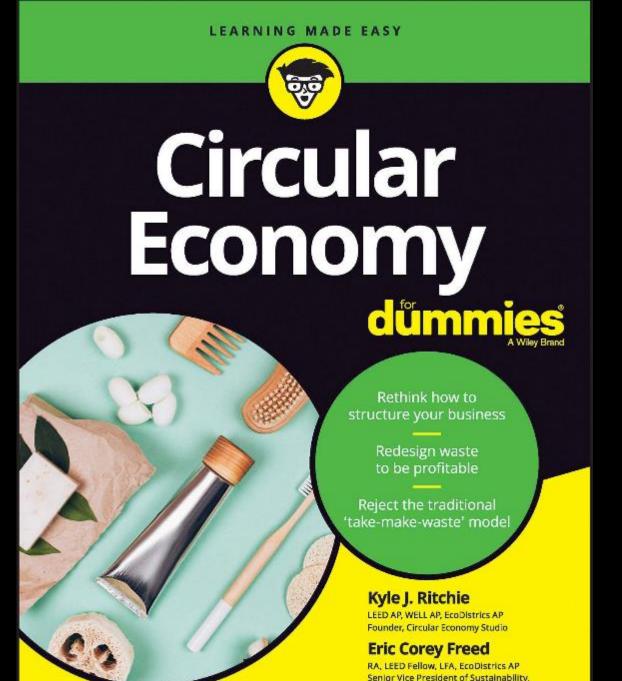


Section 5: The future of reuse/deconstruction



Deconstruction and the Circular Economy...

70 Reuse businesses started...and counting



Design For Disassembly

99% saved for reuse



Post-Fab Panels: Zero Waste



Design For Disassembly – modules/kits



Reuse Innovation Center

Process:

Collect Materials

Transport to RIC

Remanufactured

Placed in Showroom

Trainees involved in every step



<u>Innovation</u>:

Modular Buildings

Post-Fab Panels

Reclaimed content CLT

CLT building blocks

Wishlist / Brokering



JOIN OUR TEAM – START A REUSE INNOVATION CENTER NEAR YOU

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