

# **GREENLYNX DIVISIONS**



# Deconstruction

Houses Commercial wood structures Remodels



### Reuse Store

Fixtures
Cabinets
Lumber



### Woodworks

Reclaimed wood tables
Benches
Showroom open late April

# Rapid Growth

- Deconstruction division began 2013 with 3 part time staff
- Completed over 50 residential deconstruction and commercial reuse logistics projects
- Reuse store opened August 2017 with 5 full time staff
- Woodworks in development adding 3 additional staff
- Projecting 30 staff by 2023 with new volume lumber division





"The Voice of the Reuse Community" Revitalizing organization as a:

- Local network for distribution reclaimed, surplus, and durable used goods
- Incorporating reuse into Disaster Relief
- Research & advocacy for reuse industry innovation
- Reuse Business incubator/fiscal sponsorships
- Here to assist government agencies with access to our members

### Best Practices & Priorities for Decon

Deconstruction can be best utilized to preserve old growth wood that we will never see again, to save reusable materials for those less fortunate, and to save modern fir in large volumes to use in manufacturing homes and lumber products.

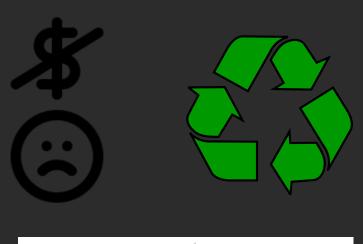
- 01 | Save furniture grade lumber
- 02 | Save modern fir for manufacturing
- 03 | Reclaim durable and historic

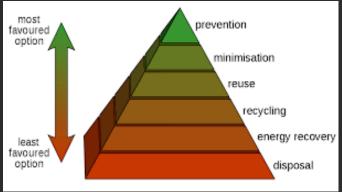


### Barriers to Deconstruction & Reuse

Deconstruction meets many barriers in the planning process for construction. In general, deconstruction takes 1 week per 1,000 sq ft for residential buildings vs. 1 hr of excavator time and 1-2 days of hauling.

- 01 | Timing
- 02 | Ineffective waste ordinances
- 03 | No funding no infrastructure
- 04 | Lack of Data

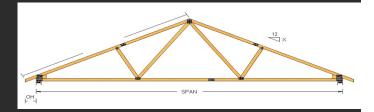


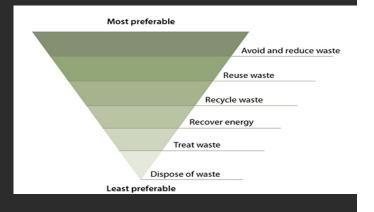


#### Benefits of Deconstruction & Reuse

Deconstruction employs 4-5 more people per thousand square feet than demolition. Reuse employs 61 more people at 10,000 TPY than landfilling. Deconstruction and reuse build our local resiliency and ability to cope with natural disasters and changes in global trade.

- 01 | Increased job creation
- 02 | Carbon and Methane sequestration
- 03 | Preserving historic
- 04 | Toxic containment opportunity

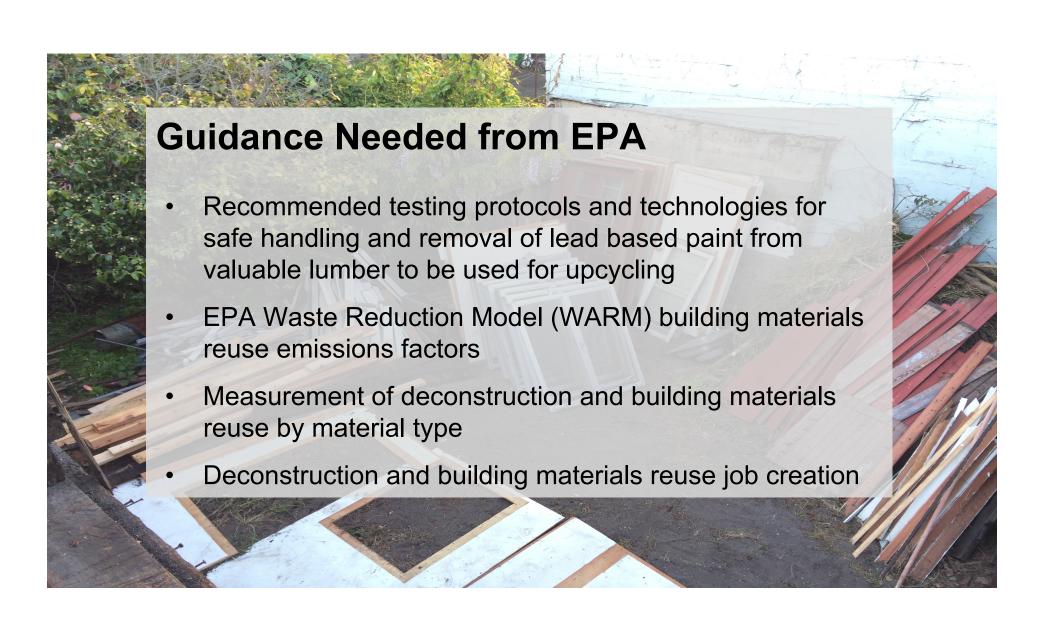


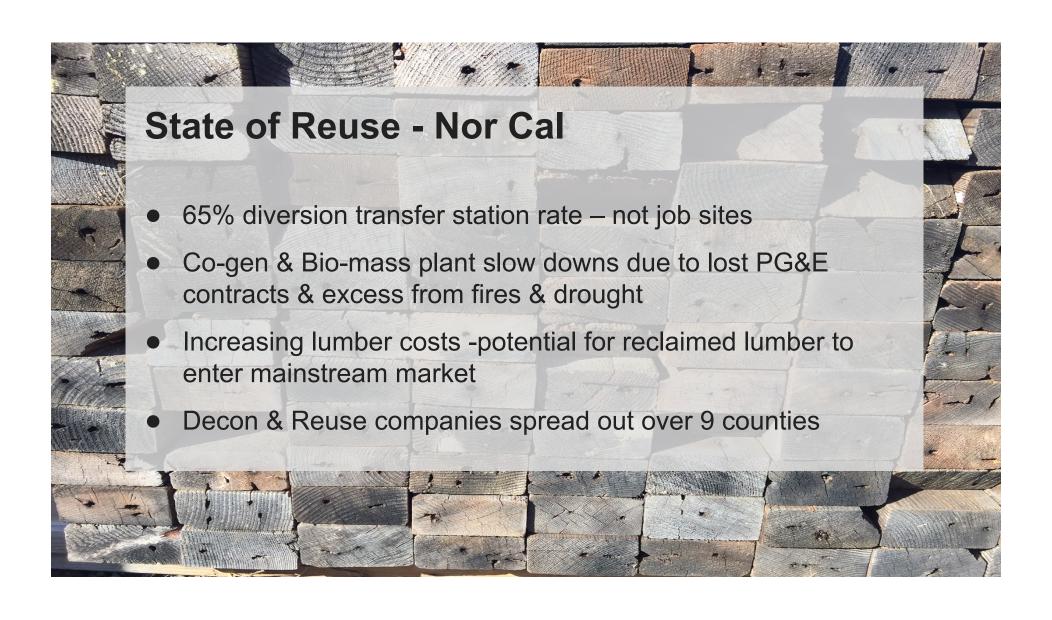


# **Demolition Results:**

- Landfill or incineration of valuable/ historic wood
- Lead contamination in all container loads
- Lead-dust fall
- Reuse not possible
- Detriot halts demolition 2018











- Mandatory Deconstruction Policy
  - Whole Home Portland Model
  - Renovations Could limit by:
    - Size square footage
    - Dollar value of renovation (for example over \$100,000)
    - Age of home Newer and/or pre-1940s to recover higher value materials
    - Sale Date Homes recently sold within 2-5 years more likely to have speculative renovation
  - Deconstruction Audit/Appraisal and Plan Submission
- Salvage Requirements Specific salvage percentages or dollar value of materials recovered



General Guideline - Deconstruction takes about 1 week per 1,000 sq. ft.

#### Fast-Track Deconstruction Permits

- Fast track projects that agree to deconstruction over demolition when a project will be under review for 4-6 months or more - exceptions for historic buildings and projects not approved, etc.
- Provide additional time allowance for deconstruction based on square footage to incentivize contractors and owners



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#### DEMOLITION DEBRIS RECOVERY PLAN

DDRP#



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### **Deconstruction Policy Opportunities**

#### • Building Codes

- Design/Install for Reuse Deconstruction Requirements
- Deconstruction requirements (percentage diversion could target certain building types/construction dates, etc.)
- Allow reuse of undamaged used structural lumber Oregon Building Code Model

Consistent Reporting Forms – Different local government reporting requirements are a barrier to deconstruction in metro-areas. Requirement from different departments (Environmental, Public Works, Building, etc.) & agencies.

• **Space** – Require Transfer Station or other space for building materials diversion/
Proje off-site de-nailing

Demolition Permit Applicant Address \_\_\_\_\_



# **Deconstruction Policy Synergies**

- Recycling, Zero Waste, or Solid Waste Diversion -Policies or Requirements
- Asbestos Require early project Asbestos Permits, Surveys, and removal if necessary to allow safe, timely deconstruction
- Air Regulations and Inspections Deconstruction generates less dust and uses less heavy diesel equipment than demolition
- Greenhouse Gas Emissions Policies Deconstruction keeps wood out of landfills and reduces methane emissions
- Economic Development & Job Creation

### **Reuse Store**

Appliances
Cabinets
Doors
Light Fixtures
Plumbing Fixtures
Windows
&
Lumber



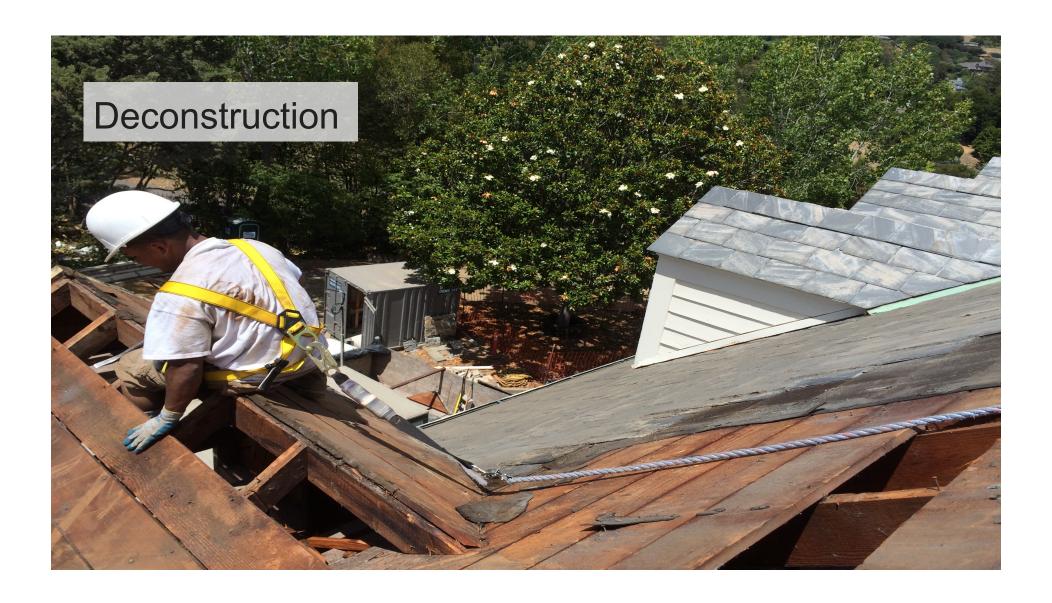


















### Resources

- Changes to Lead Concentration In Air and Soil During House Deconstruction and Demolition: Case Study Springwells, Detroit, Michigan https://digitalcommons.wayne.edu/oa\_theses/337/
- "Detroit to halt some demolitions over lead concerns"
   Detroit News March 20, 2018
- https://bmra.org/library/
- https://ilsr.org/recycling-means-business/

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