

Deconstruction Program City of Portland, Oregon

Shawn Wood

Construction Waste Specialist



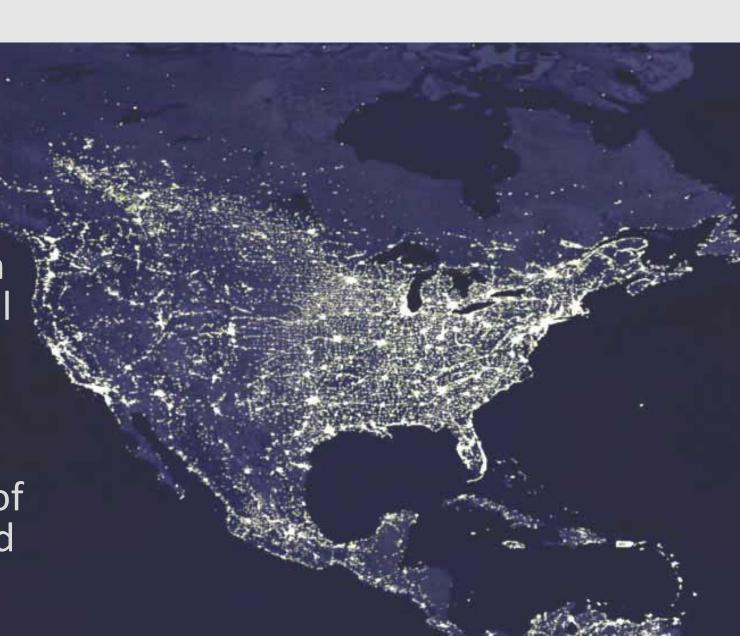
What's the Problem?

 800 billion tons of natural resources worldwide are stored in the built environment

 Construction and demolition debris – up to 50% of Landfill

 Global volume to nearly double by 2025

 Environmental impacts associated with production of new materials and fate of old materials



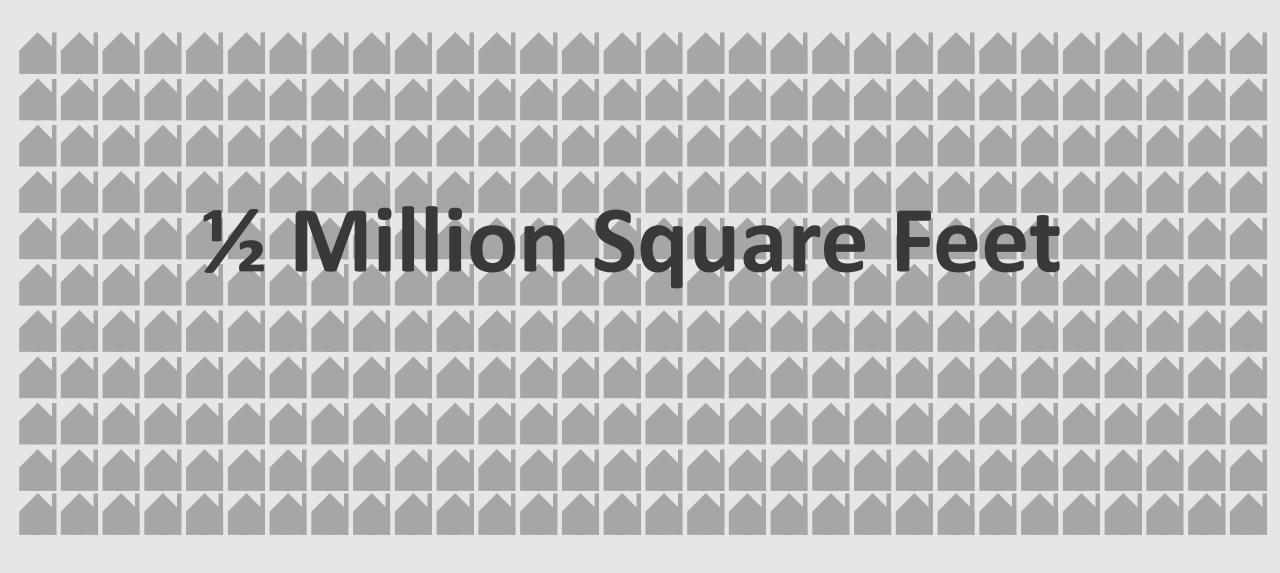
Unnatural Disaster



Construction debris causes landslide in Shenzhen, China (2015)

- Size of 70 football fields
- 80+ people died
- 33 buildings destroyed

Annual House Demolitions in Portland









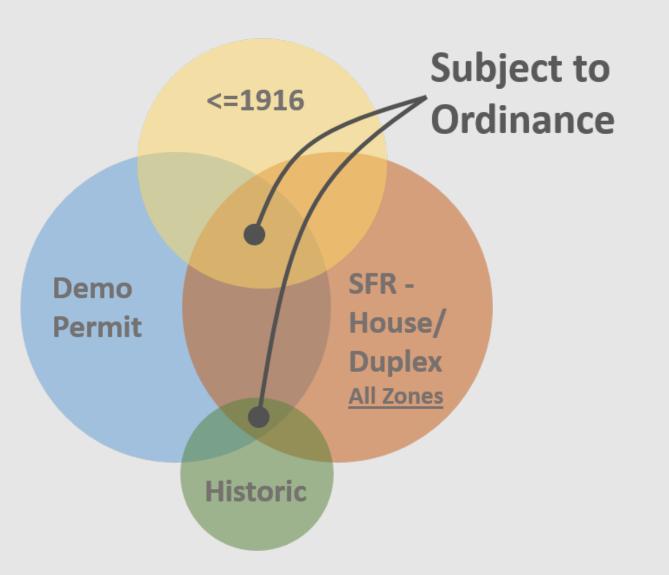
Issue and Action







Deconstruction Ordinance

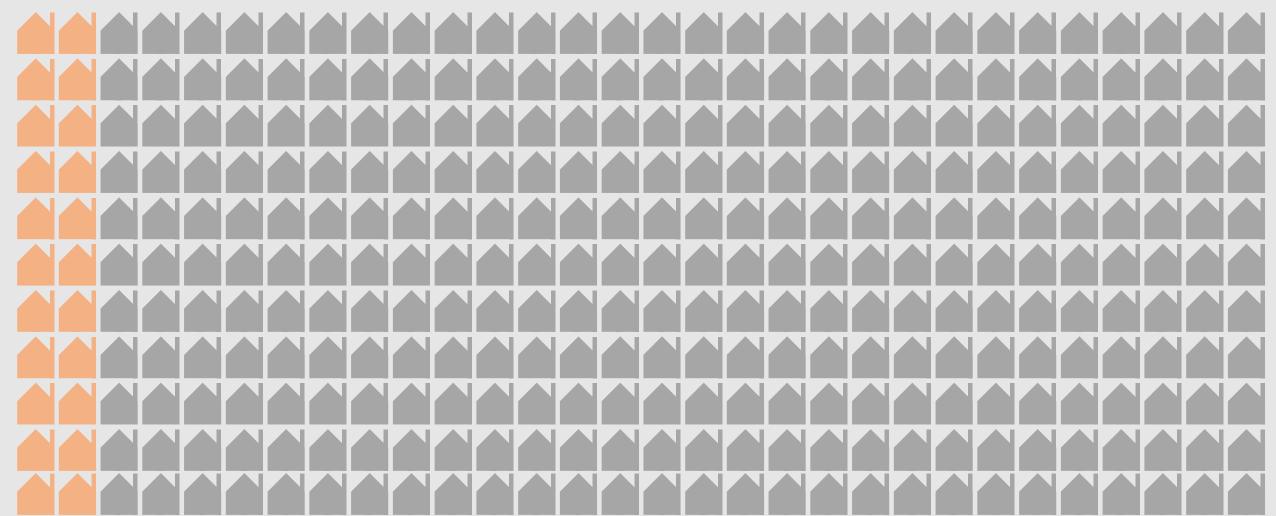


Effective Oct 31, 2016 deconstruction required for house/duplex if:

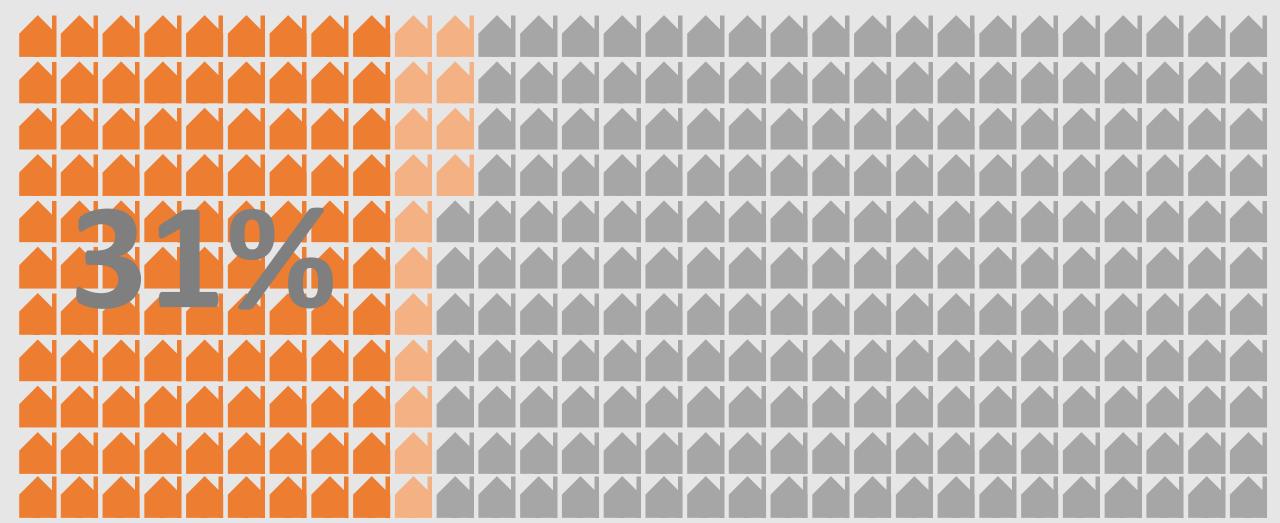
- The structure was built in 1916 or earlier; or
- The structure is a designated historic resource.

Only certified deconstruction contractors can do work

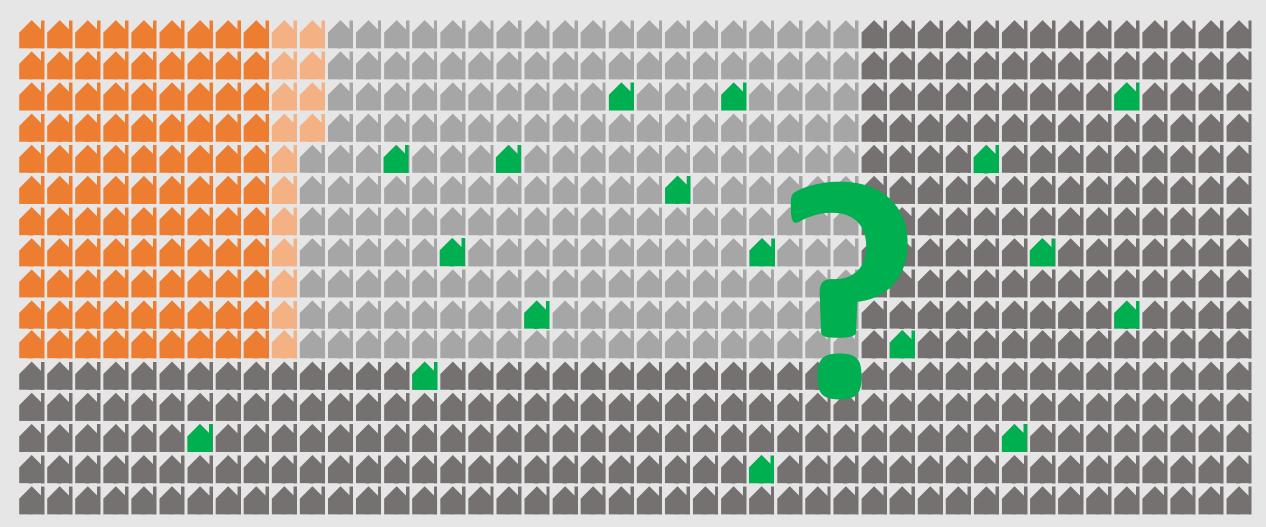
Annual House Deconstructions – Pre Ordinance



Annual House Deconstructions – Post Ordinance



Demolition Site Control Requirements (Lead/Asbestos) – July 2018



Outcomes



Certified Deconstruction Contractors







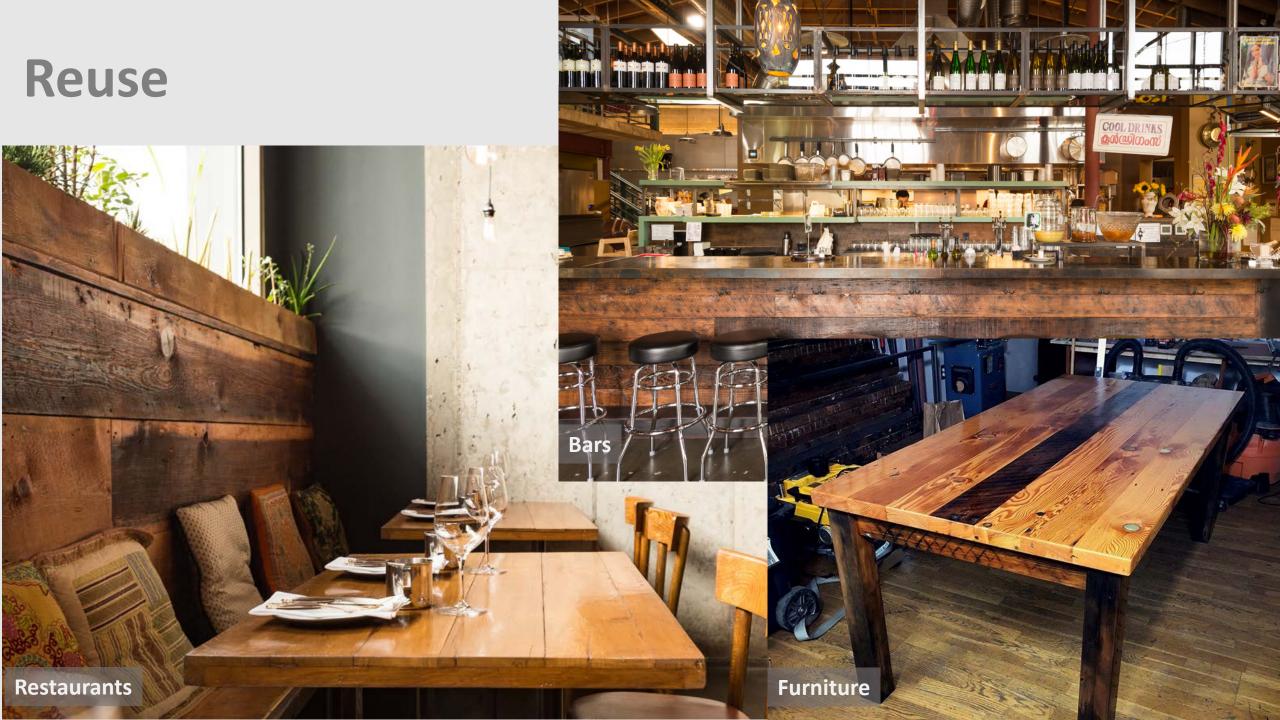




- Trained over 30 people
- Contractor training
- Workforce training







Net Environmental Benefits (Decon vs Demo)



Average Per House Benefit



= 689 gallons gas

Annual Total Benefit



= **1,501,716** miles driven



= 60 times around planet

Growth Rings... US EPA Building Materials Reuse Association (BMRA) Oregon DEQ University Students (West Coast, Mid West, East Coast)

Contact Information

