

Deconstruction Program

City of Portland, Oregon

Shawn Wood

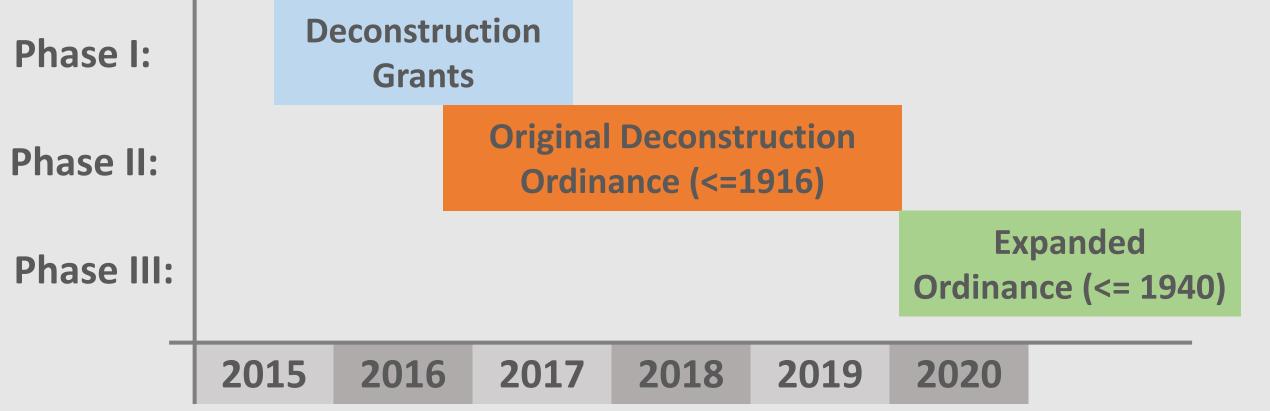
Construction Waste Specialist



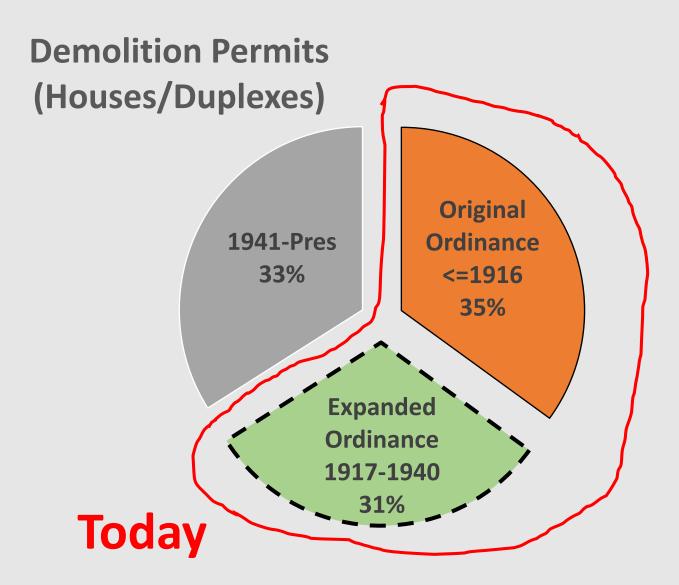


Multi-Phased Approach to Deconstruction

- Incentives (deconstruction grants)
- Requirements that could grow over time



Ordinance Expansion



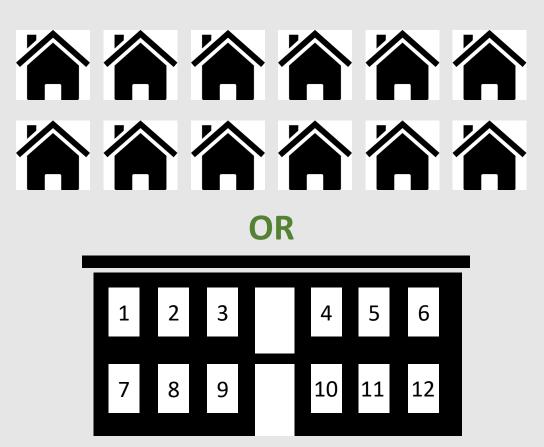




Cost Per Unit

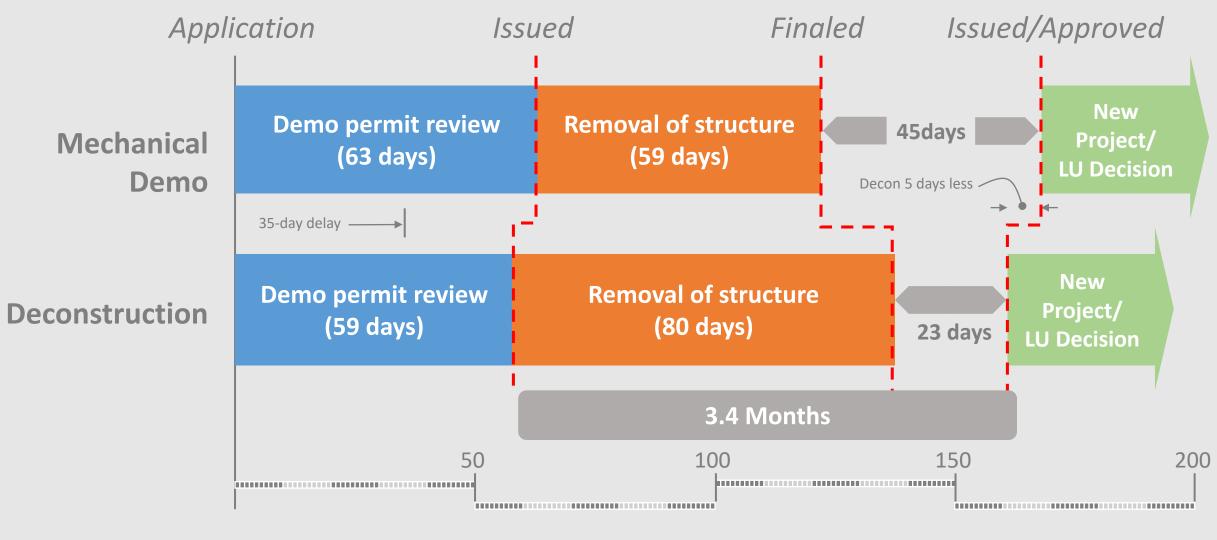
- Assuming \$3,000 more for decon
- 12 units created for each decon (\$250 additional per unit)





New Development - Replacement Units

Carrying Costs – Average Development Timeline



How Has Deconstruction Cost Come Down?

- Competition
 - 2 Deconstruction Contractors prior to ordinance companies
 - 12 Certified Deconstruction Contractors currently
- Most successful contractors have complementary salvage retail stores
- Contractors offering additional services associated with building removal
 - Excavation foundation/basement removal; backfilling; utility trenching
 - Asbestos testing/abatement
- Material donations/tax benefits not a major part of ecosystem



What is true cost of removing a building?

- Loss of embodied carbon
- Hazmat
 - Air Quality
 - Soil
- Decon starts to address these true costs
- New requirements for mech demos (2018)
 - Hand removal of all exterior painted (nonstructural) materials prior to mech demo (includes siding, trim, windows, doors, porch flooring)
 - Watering prior to and during removal, and loading (wet, wet, wet)
 - Plastic on ground during exterior removal
 - 3 new inspections



Ecosystem Policy

Deconstruction
Ordinance
(Supply)

~125 houses/year

Lumber (10,000 lbs/house)

Others to boost demand?

People

12 Certified
Deconstruction
Contractors

Good Wood

NW Decon Specialists

Lovett Decon

9 Additional

Places

Retail/ Wholesale/ Donation

Good Wood

Reclaim NW
Some consignment

Salvage Works

Buys lumber

ReBuilding Ctr Non-profit

Site Sales/Internet

Other(s)?

Things

Projects/
Demand

Furniture

Cladding (Int/Ext)

Art

Tiny Houses/
Structures

More of above?
Others?