

unbuilders



HERITAGE LUMBER



A New Future For Old Buildings

RECYC-Québec: May 26, 2021

The Problem - Demolition & Disposal

Construction industry wastes valuable resources, incl. **premium old growth lumber**

Canadian Construction
Industry Figures:



Traditional Demolition

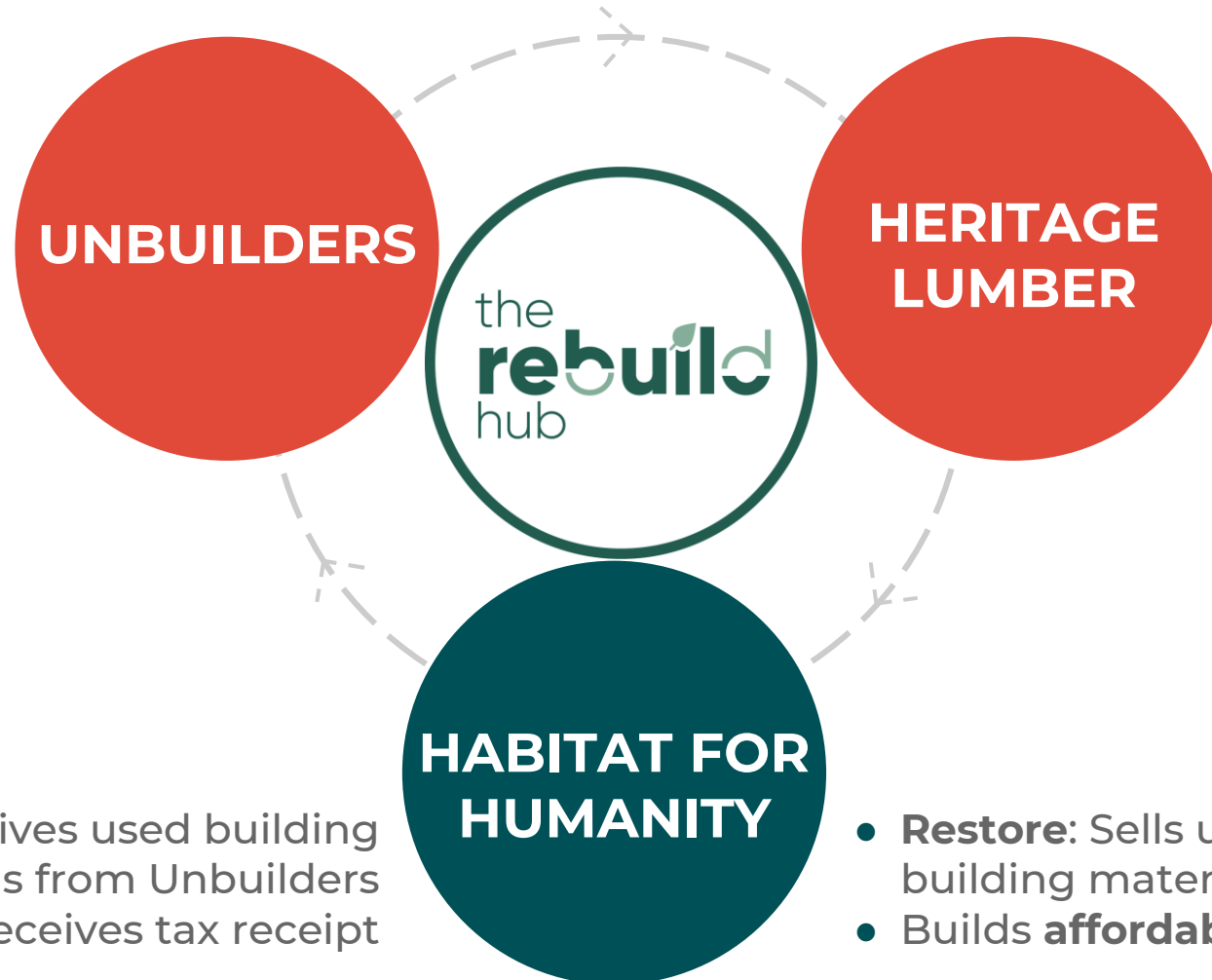


Our Solution - Salvage & Reuse

Unbuilders deconstructs & salvages; Heritage Lumber resells & remanufactures;
Habitat resells & builds affordable housing

- **First** dedicated deconstruction & salvage company in Canada
- **1,550 tonnes diverted** from disposal in 2020 (7,500 tonnes of CO₂)
- Record setting **99% salvage & recycle** on single family home

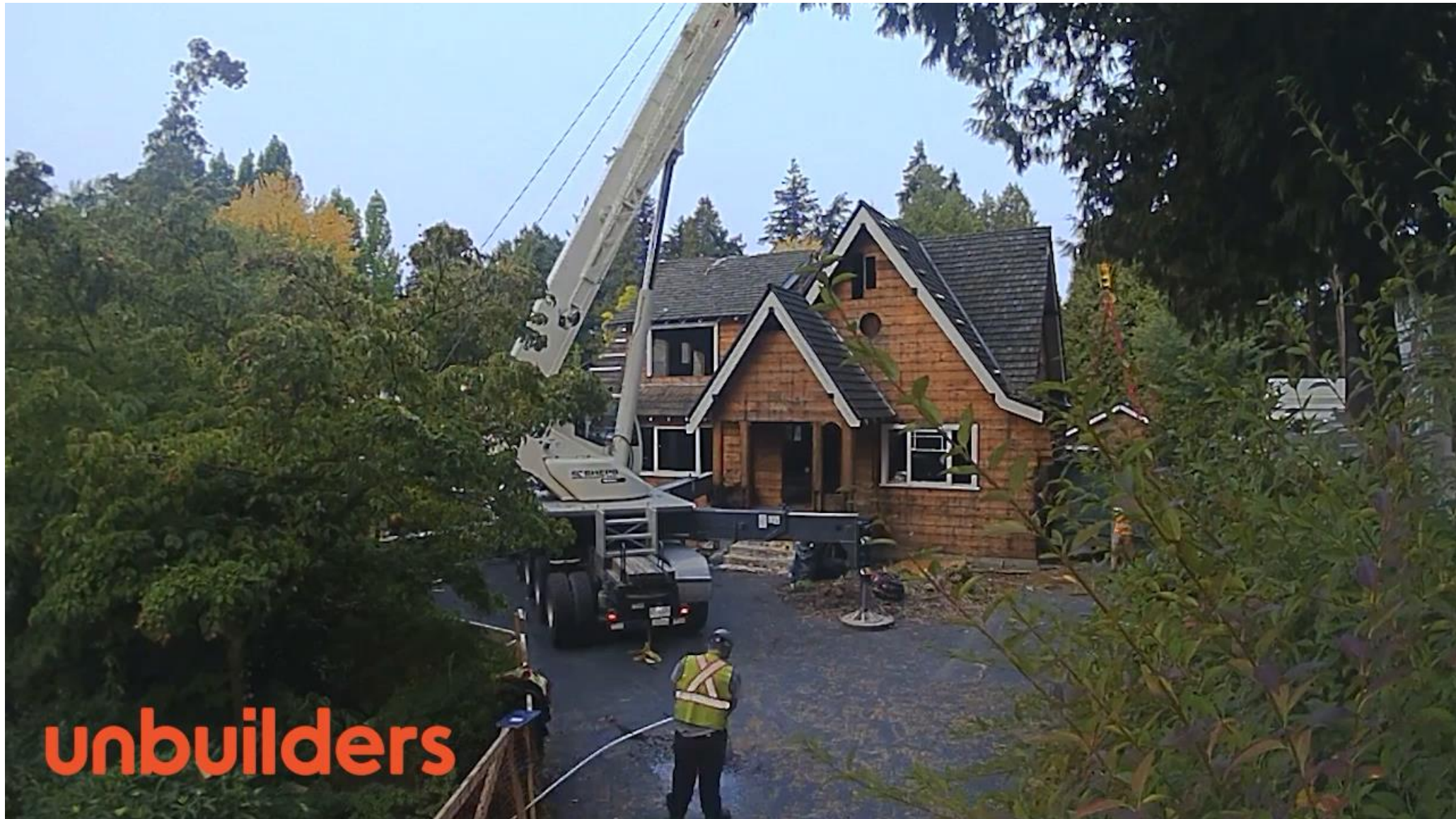
- Receives used building materials from Unbuilders
- Owner receives tax receipt



- Reclaimed wood brokerage
- Reclaimed wood **receiving yard** for wider industry
- **Reclaimed products** and R&D projects

- **Restore:** Sells used building materials through
- Builds **affordable housing**

Crane Deconstruction



Our Roots – Old Growth Lumber

Our company is harvesting more than a raw material, we are salvaging **our history**

Old Growth Lumber

- Trees **2000 years old** once covered our continent
- Used for framing buildings up until 1970
- **Scarce resource**, rarer with every demolition & will not grow back for generations
- Small amount left standing & no longer cut for dimensional lumber

Benefits of Old Growth Lumber

- **12 times less embodied carbon**
- **3 times stronger** than new lumber¹
- Most sustainable building material on the market¹

Though our cities may be young,
they were built with **ancient trees**



Reclaimed Products

Reclaimed Wood Products & Finishes

Applications

- Dimensional lumber
- Products: Flooring, wall/ceiling cladding, stairs, counters, tables, furniture, decks, siding, soffit, fascia

Products with a Story

- Reclaimed wood and fixtures from buildings with history



Deconstruction Impact - Environment

Huge positive impact on the environment

Environmental

- C&D generates **4 million tonnes** of waste annually - over $\frac{1}{3}$ of all solid waste
- **19.9 Million tons of CO₂eq** released into the atmosphere through decomposition
- Landfills are overflowing



Deconstruction Impact - Social

Making our communities healthier & more affordable

Social Impact

- Better for communities - quieter, cleaner
- Preservation of history through material salvage
- Contributes to the construction of **affordable housing** through partnership with Habitat for Humanity

Health

- Demolition does not remove all hazardous materials - we average 2 call backs per job; every demolition means hazardous material exposure
- Health risks to workers and community
- **Contaminating** landfills, recycling facilities and our communities



Deconstruction Economics

Creates jobs & stimulates the economy

Jobs

- Deconstruction jobs: over 45,000 jobs in BC alone, 250,000 jobs nationally
- Likely double that total from the offshoot economic activity & jobs needed:
 - Transportation, material handling
 - Used building material sales
 - Wood workers, carpenters, renovators
 - Designers
 - Recycling streams

Economics

- Metro Vancouver: **\$3.4 billion per year** from deconstruction & reclaimed wood sales
- National: **\$18.8 billion per year**



Future outlook

Deconstruction & remanufacturing to replace demolition & disposal

Unbuild

- Make unbuilding the industry standard
- Massive waste reduction

Incorporate Used Building Materials

- Install used building materials in new construction & renovations
- New systems for install & uninstall

Low Impact Design

- Prefabrication, off-site construction
- Wood construction, mass timber
- Design for disassembly - new buildings & renovations with reusable materials that are designed to come apart or adapt



It's Not Waste,



It's Just Wasted.



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