DECONSTRUCTION

A Zero Waste Boston Initiative

B

CITY OF BOSTON

- **1.** The alternate practice of demolishing a building to achieve resource conservation and material reuse.
- 2. It is the systematic dismantling of whole or parts of a structure to:
 - Maximize material salvaged for reuse;
 - Recycle what is not reusable;
 - Minimize the amount of material going to landfill or incineration.

3. The discipline enables projects to:

- Reduce their carbon footprint and consumption of virgin materials;
- Preserve historic and architectural character, and;
- Support the growth of secondary building material markets.



Why Deconstruction



C&D WASTE

of all discarded materials generated in MA are from C&D activities* DEMOLITION 99%

Of Boston buildings that apply for demolition are demolished annually 1% are preserved. CARBON EMISSIONS 78%

of carbon emissions from discarded materials can be reduced with a 90% diversion rate**

<u>*2019 Solid Waste Data Update (October 2020), MassDEP</u> <u>**Zero Waste Boston Plan, page 16</u>

CITY OF BOSTON

IMPACT OPPORTUNITIES - STAKEHOLDERS

Why Deconstruction

ENVIRONMENT	 Preserving Natural Resources - reducing consumption of virgin materials Embodied Carbon Savings - in energy and emissions from materials and construction GHG Emissions Reduction - preventing methane release, bypassing new materials
DEVELOPERS	 Cost Savings - decreased disposal cost, reuse of select items Tax deductions for donated materials Positive Environmental Impact - avoided use of raw materials, tons of materials diverted
COMMUNITY	 Preserving Boston History - retaining building character within neighborhoods Job Creation/Training - entrypoint and economic opportunities in the building trades Salvaged materials can be more affordable, which can support residents
СІТҮ	 Economic Development - Market Supply, Market Growth, Business Creation, Job Creation/Training Durable Goods Recovery - support affordability
COLLECTIVE	 Lead By Example - marketability and recognition Collaborating on policy New/improved data collection and metrics to support engagement and decision making

B

Zero Waste Boston, in partnership with RecyclingWorks MA, is connecting developers to technical assistance and support for deconstruction.



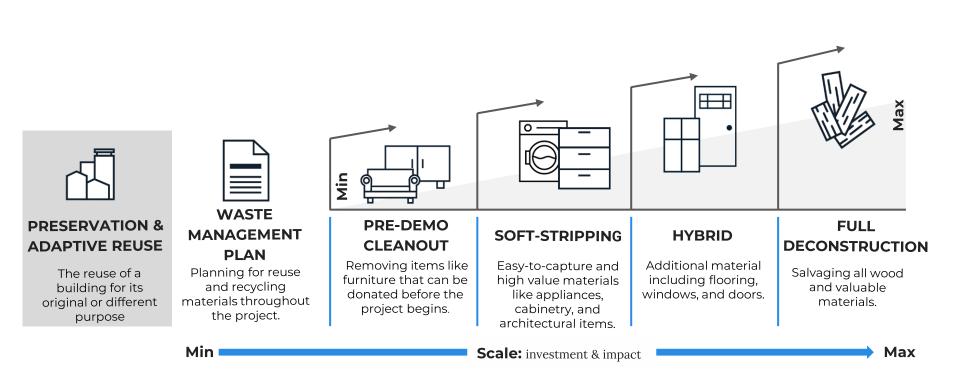
RecyclingWorks MA is a **free** recycling assistance program for businesses and institutions looking to recycle and reduce their waste. RecyclingWorks MA is funded by the Massachusetts Department of Environmental Protection.

FREE TECHNICAL ASSISTANCE:

- Reuse, recycling, and waste management planning
- Outlet for salvage materials
- Onsite assessment with local reuse organizations
- Identifying deconstruction crews
- Sorting-equipment planning
- Training recommendations for staff
- Customizable signage for sorting procedures
- Material tracking templates

DECONSTRUCTION

Pathways



Deconstruction Projects



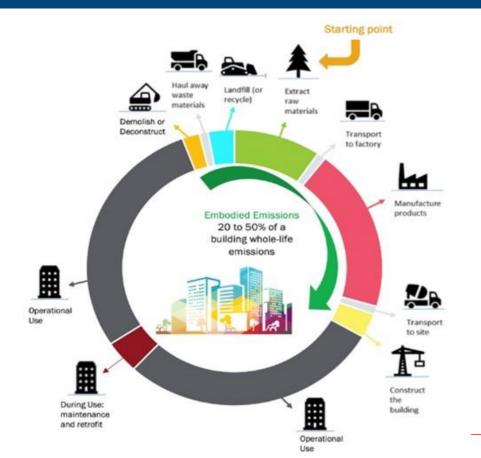
7-unit Victorian, 160-room Hotel,



University Science Lab



EMBODIED CARBON



CITY OF BOSTON