AI DECONSTRUCTION DOCUMENTATION (AIDD)

Our AIDD tool could be further commercialized, able to facilitate movement of deconstructed materials from wholesale to market. As a recent research publication highlighted, "convergence of AI-driven technologies would significantly contribute towards more efficient, sustainable, and streamlined materials management in reverse logistics operations within deconstruction." By potentially expediting and democratizing documentation, AIDD could have substantial macroeconomic effects.

PROJECT TEAM DETAILS

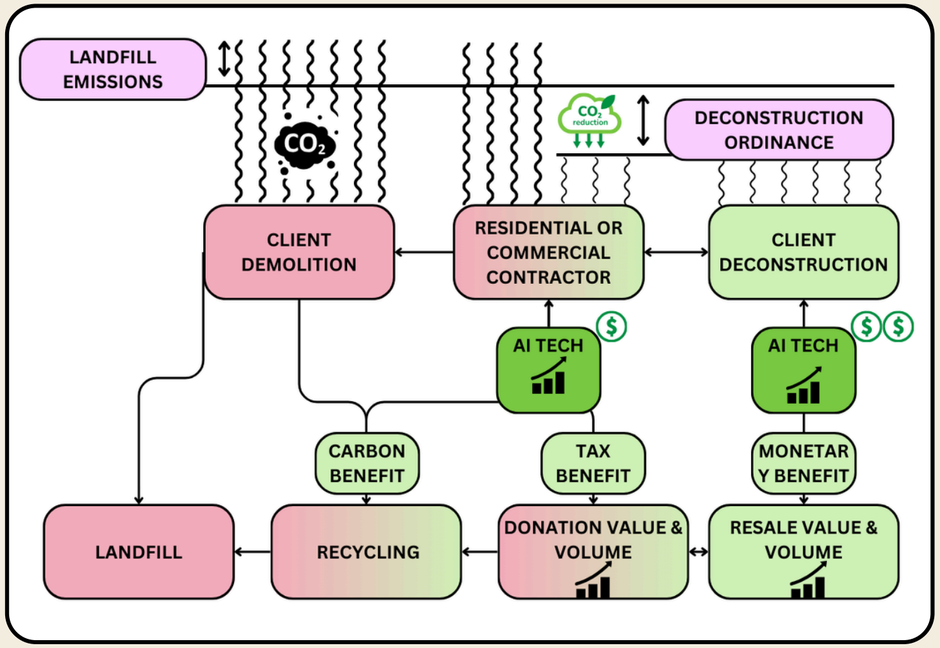
Business Name	Loop Layer
Primary Investigator	Garr Punnett
Company Location	Chicago, IL
Readiness Level	TRL 5
Type Of Innovation	Technology & Data Analysis

POSITIVE IMPACTS

- INCREASED MATERIAL INCENTIVE & SUPPLY
- DECREASED MATERIAL EXTRACTION
- DECREASED CARBON EMISSIONS
- SECONDARY MATERIAL PRICING INCREASE
- INCREASED LOCAL DECONSTRUCTION JOBS

- **Increased Efficiency:** Dramatically reduces the time and labor required to catalog salvaged materials.
- **Improved Accuracy:** Accurate identification of materials, reducing human error and improving inventory management across stakeholders.
- **Streamlined Tax Donation Process:** Easier for property owners to claim fair market deductions while adhering to the IRS Qualified Appraisal standard for donated materials.
- **Enhanced Material Matching:** Increases the likelihood of successful material reuse and increase of value.
- **Data-Driven Insights:** Providing valuable analytics on national material flows, market trends, and environmental impacts.
- **Scalability:** Handle increasing volumes of materials and users, supporting the growth of the Re-X supply chain.
- **Construction Industry Disruption:** Increase the democratization of deconstruction knowledge, processes, and market access, empowering new homeowners to solicit services and new contractors to offer them.

MACROECONOMIC IMPACTS OF AI ENABLED DECONSTRUCTION



DECONSTRUCTED MATERIAL AI DOCUMENTATION PROCESS EFFICIENCY