



A-2 Retrofit Concierge serve for homeowners

Machine Learning

Tool Development

Explainable AI

Retrofit Identification

Summary

The primary challenge to large-scale adoption of deep retrofits is not a capital gap but rather an information gap; a homeowner who knows "what to do", "in which sequence" and "by whom" is much more likely to undertake the deepest retrofits that they can afford. Researchers will investigate introducing transparency in machine learning models used to inform home-owners of residential retrofit opportunities.

Partners

OPEN Technologies develops software that supports the sustainable transition of the built environment.

Researchers

Under Development

METHODS AND DATA USED

Under Development

Final Outcomes

ReBuild research will be essential in providing the machine-learning algorithms that will underpin the tool. This tool will start at the city scale, then expand to the Provincial- and Canadian-scale. This project will span three objectives:

1. Predicting home attributes.
2. Retrofit decision optimization.
3. Community-scale retrofit scenarios.