



**climative**

# Energy Insights for a Climate-Positive World

March 6, 2023

# Accelerating the Transition to Low Carbon

Existing **buildings make up to 18%** of GHG emissions

**Only 1%** of residential buildings get retrofitted annually

**Only 10%** of buildings have been evaluated over 20 years

Need rapid deployment and beneficial electrification programs

Need to move from **declaring** a climate emergency to **taking action**



# Personalized Low Carbon Plan for Every Building

 Add insulation in the attic  
 3 Year Payback Period  
 13% Less Emissions

 Replace windows and doors  
 Install a heat pump  
 8 Year Payback Period  
 58% Less Emissions

 Add insulation on walls  
 Install a heat pump  
 9 Year Payback Period  
 71% Less Emissions

 Install a heat pump  
 5 Year Payback Period  
 82% Less Emissions

 Add insulation on walls  
 Install a heat pump  
 Replace windows and doors  
 9 Year Payback Period  
 48% Less Emissions



# A Low Carbon Plan for Every Building

mass market and personalized actionable insights for deep energy retrofits



## Building Blocks



Building's Basic Assessment Data



AI Based Energy Audits



Remote Audits - real-time energy advice

## What it is

- ✓ Current Energy/Carbon Rating/Label
- ✓ Energy Retrofit Recommendations & Costs
- ✓ Energy Savings Potential from Retrofits
- ✓ Carbon Savings Potential from Retrofits
- ✓ Matching of Regional Rebates & Offers

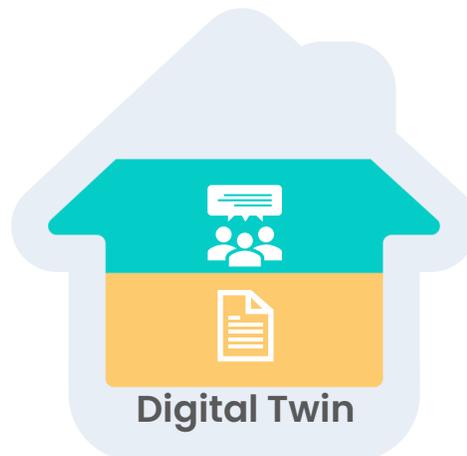


# Climative Approach – 100% Coverage

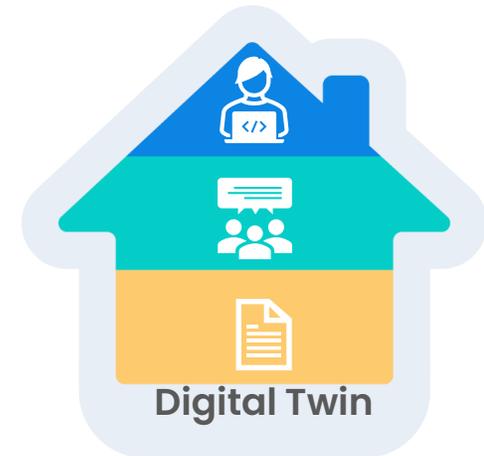
## Level 1 Audit Result



## Level 2 Audit Result



## Level 3 Audit Result



### Mass Digital Assessment

- Zero Touch Audit
- Assessment Data: Age, Location, Type, etc.
- 100% Building Coverage



### Online Customer Engagement

- Customer Claims Building
- Online Survey 3-5 Additional Data Points
- Gets Low Carbon Plan and Building Label



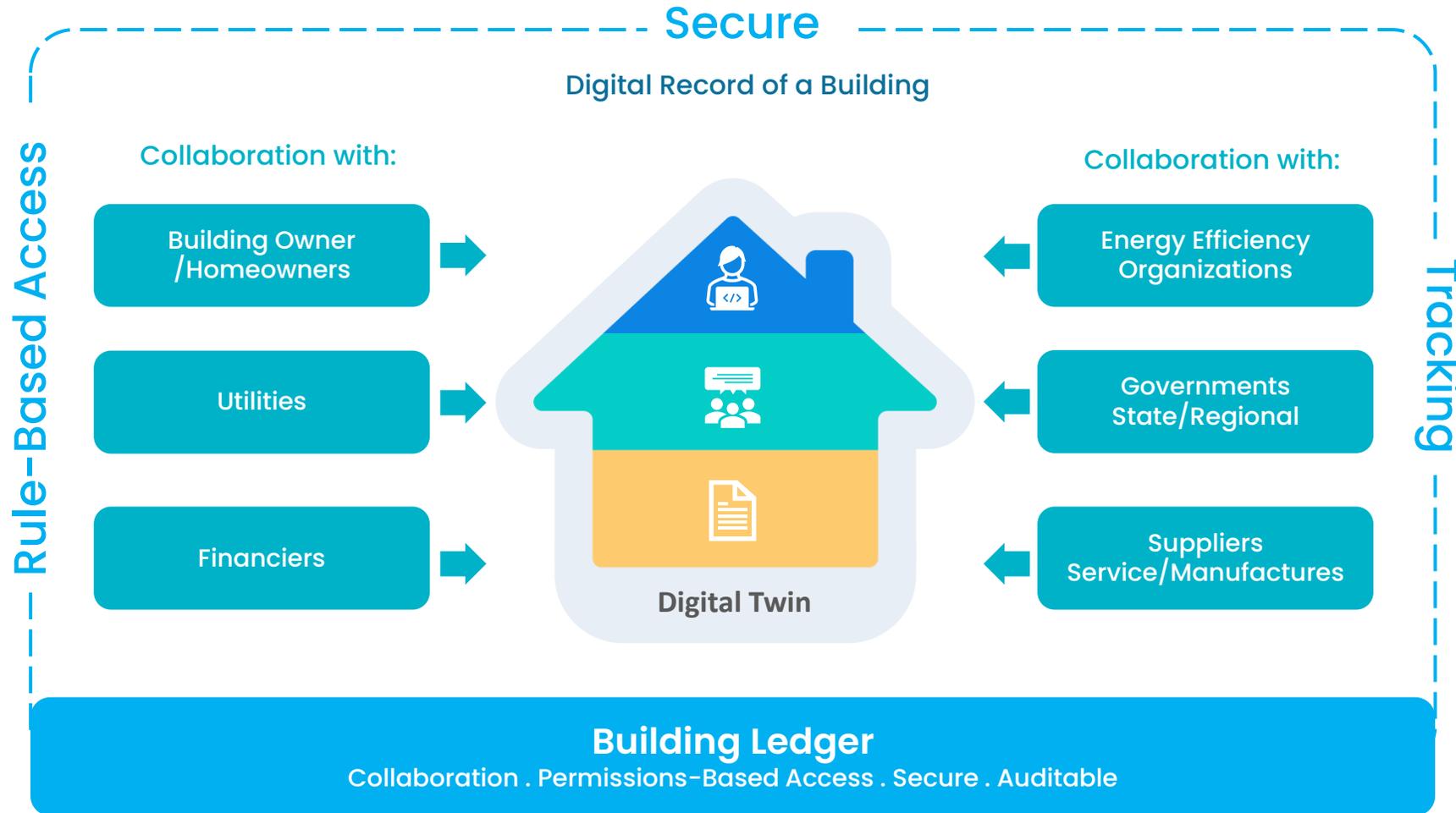
### Remote Energy Advisor

- Energy Advisor Engages with Customer
- 10-15 Additional Data Points
- Discussion and Updated Low Carbon Plan

(Building Digital Twin can be enhanced at any **step** in the process with data such as Census Data, Energy Data, Physical Audit Results, Past Programs Results)



# Digital Twin for Collaboration



# Climative – Enabling the Low Carbon Economy

