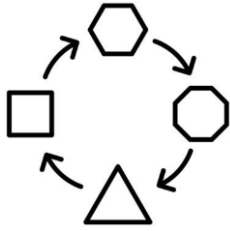




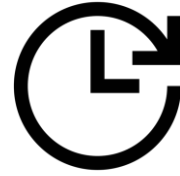
Casa Más



Adaptable



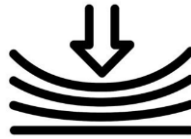
Equitable



Future-Ready



Sustainable



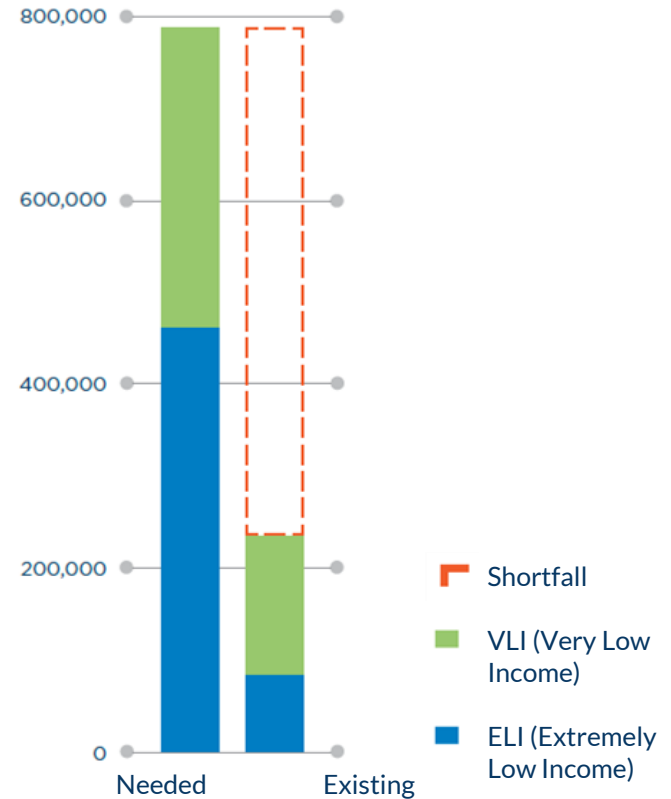
Resilient



Affordable

PROBLEM: Housing Shortage

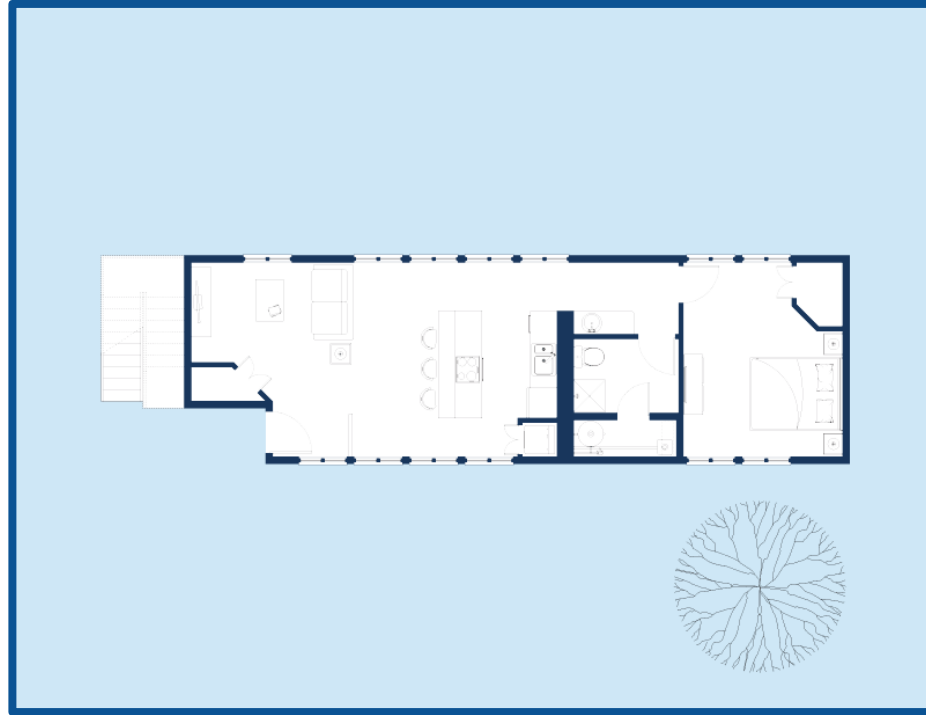
LOS ANGELES COUNTY NEEDS
550,000
MORE AFFORDABLE RENTAL HOMES

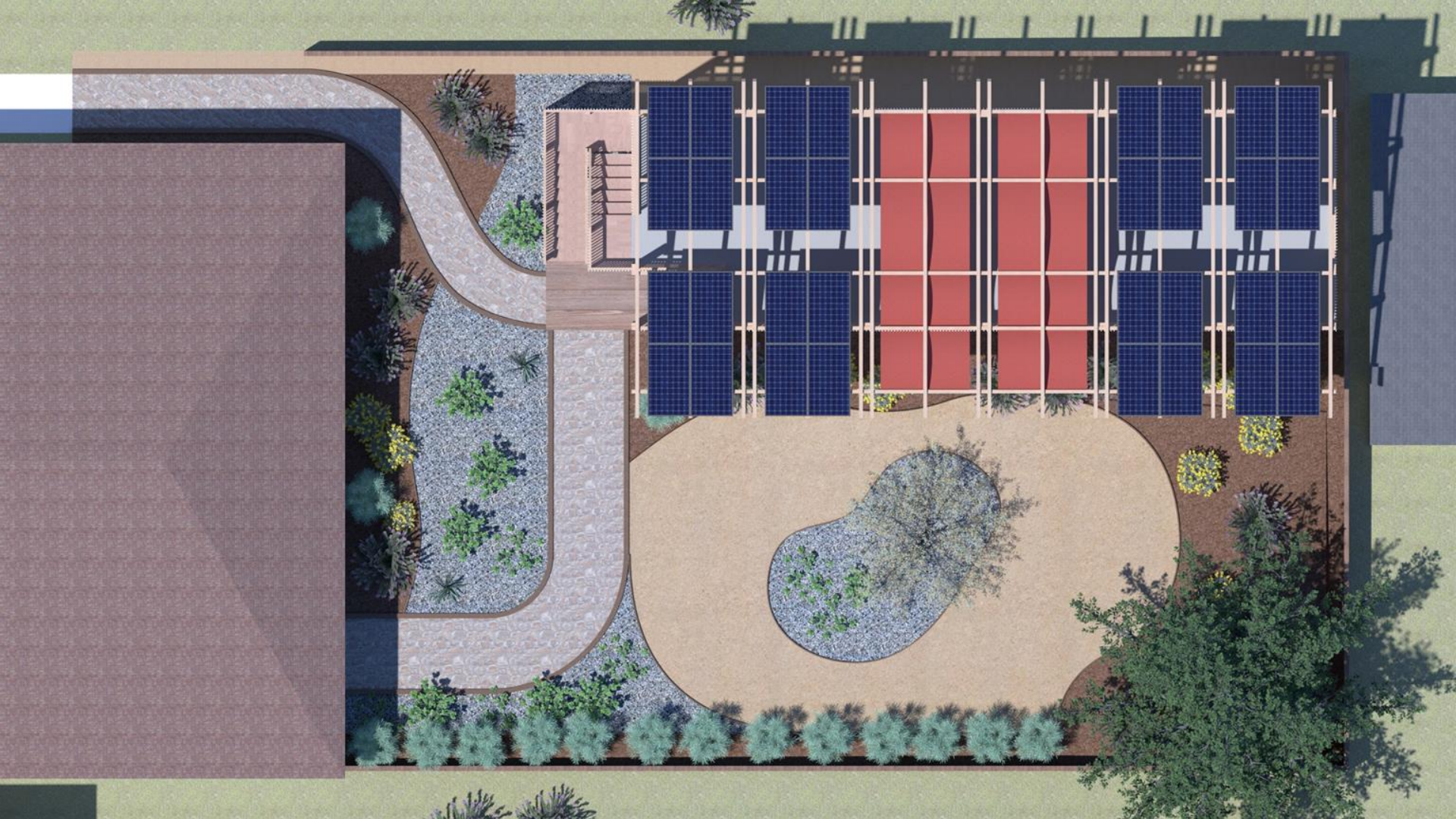




Solution: ADUs

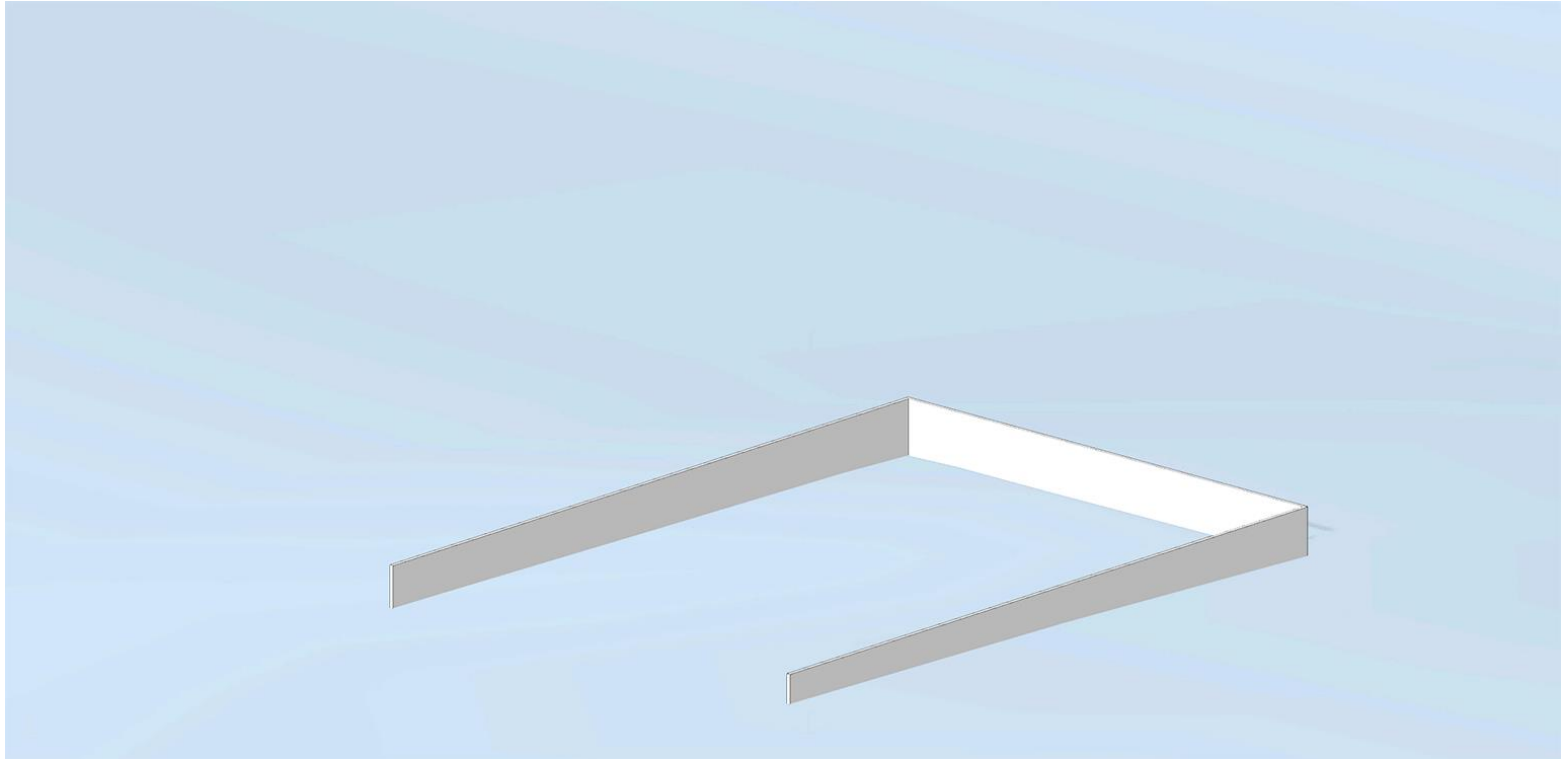
More Más



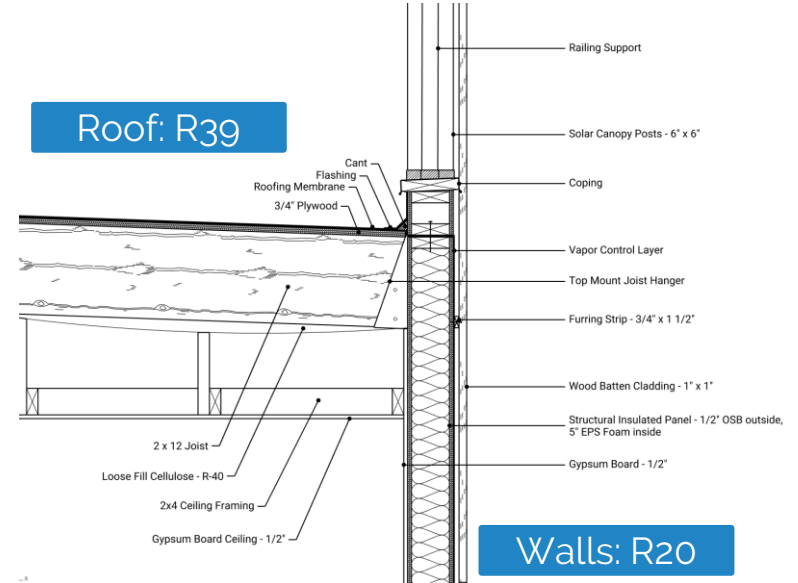
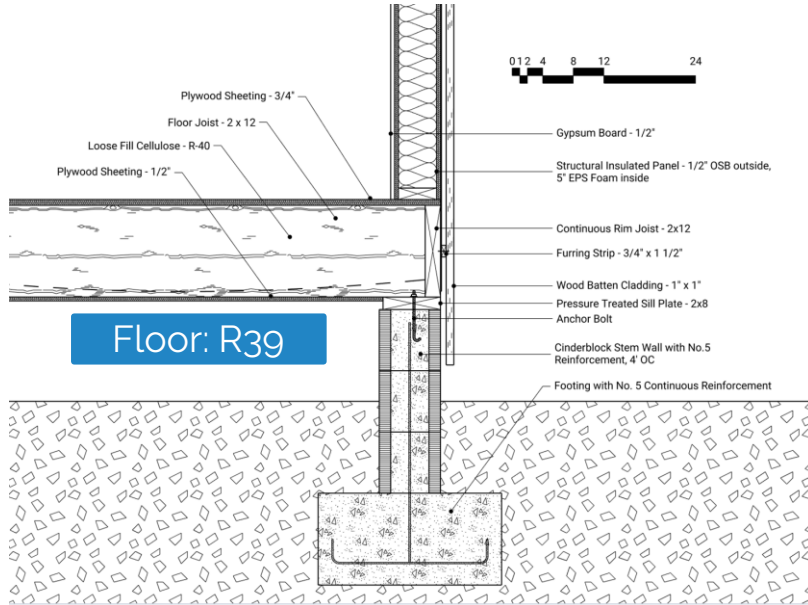




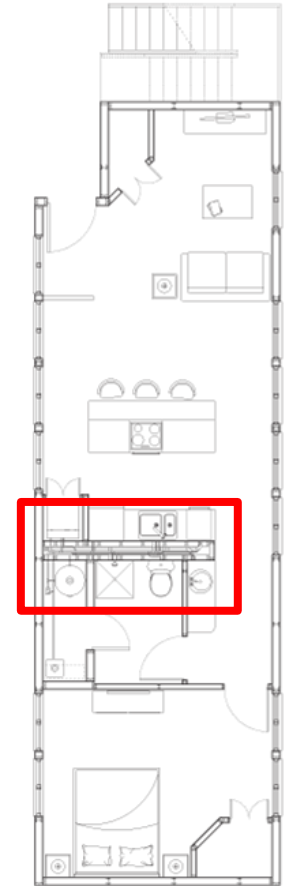
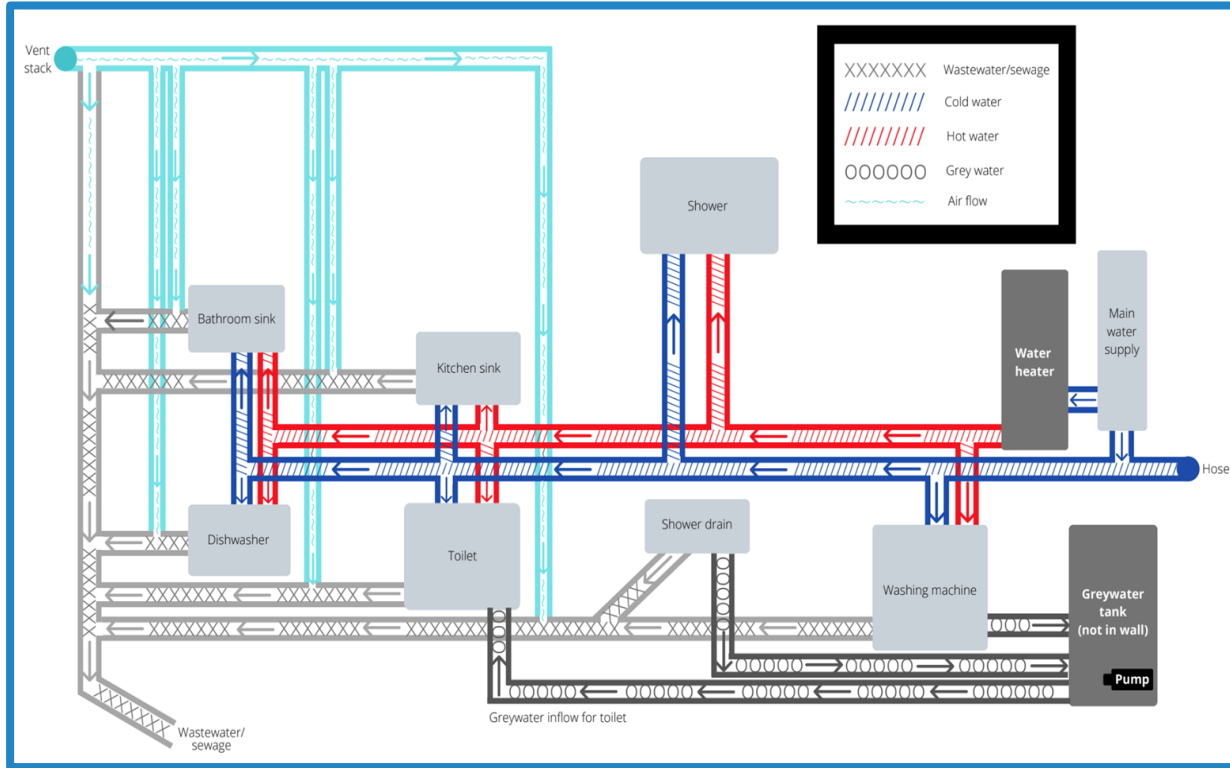
Sustainable Construction



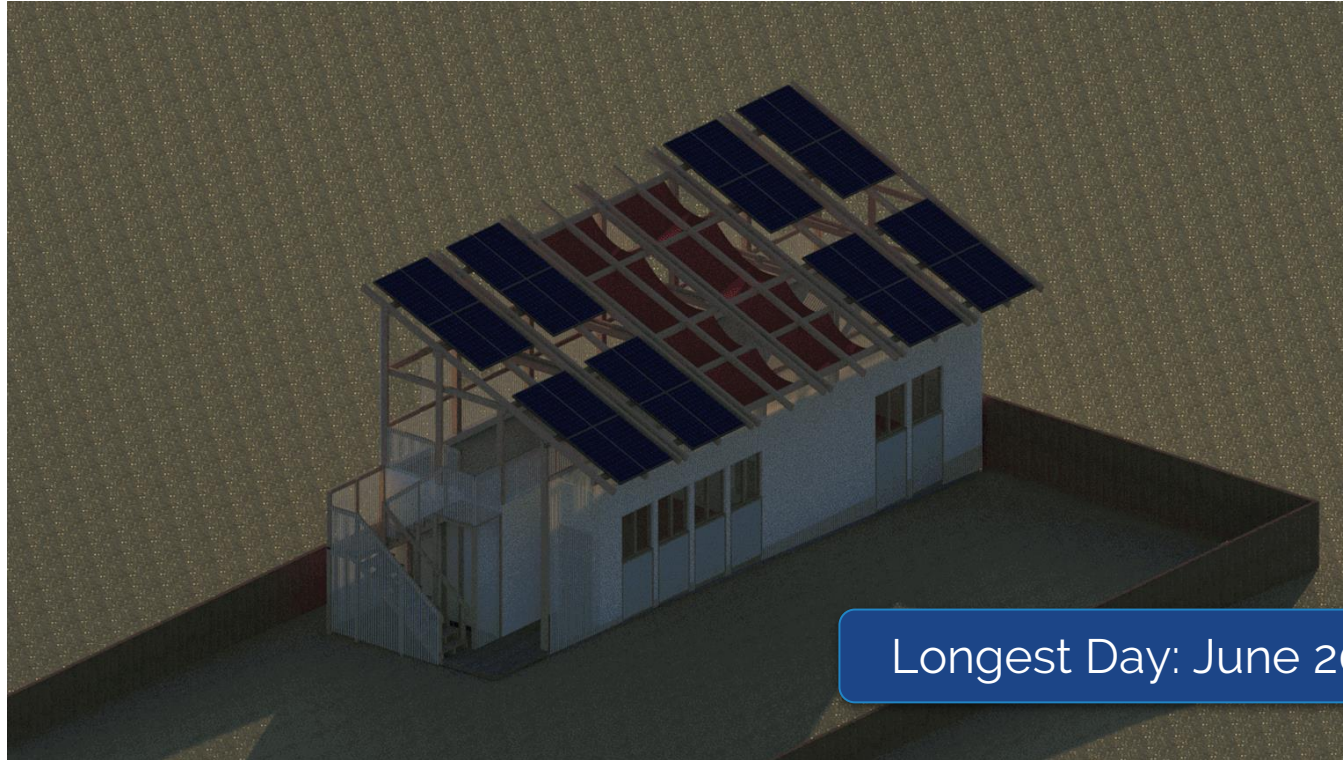
Building Enclosure



Plumbing Wall

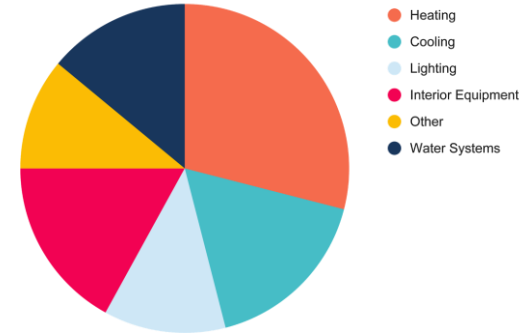
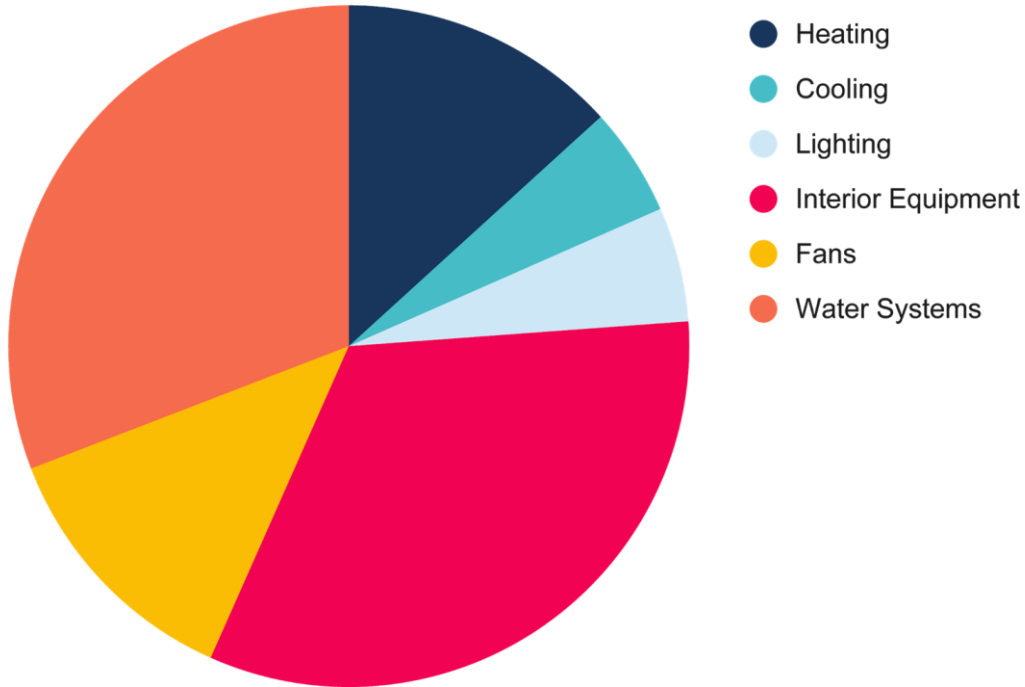


Passive Performance



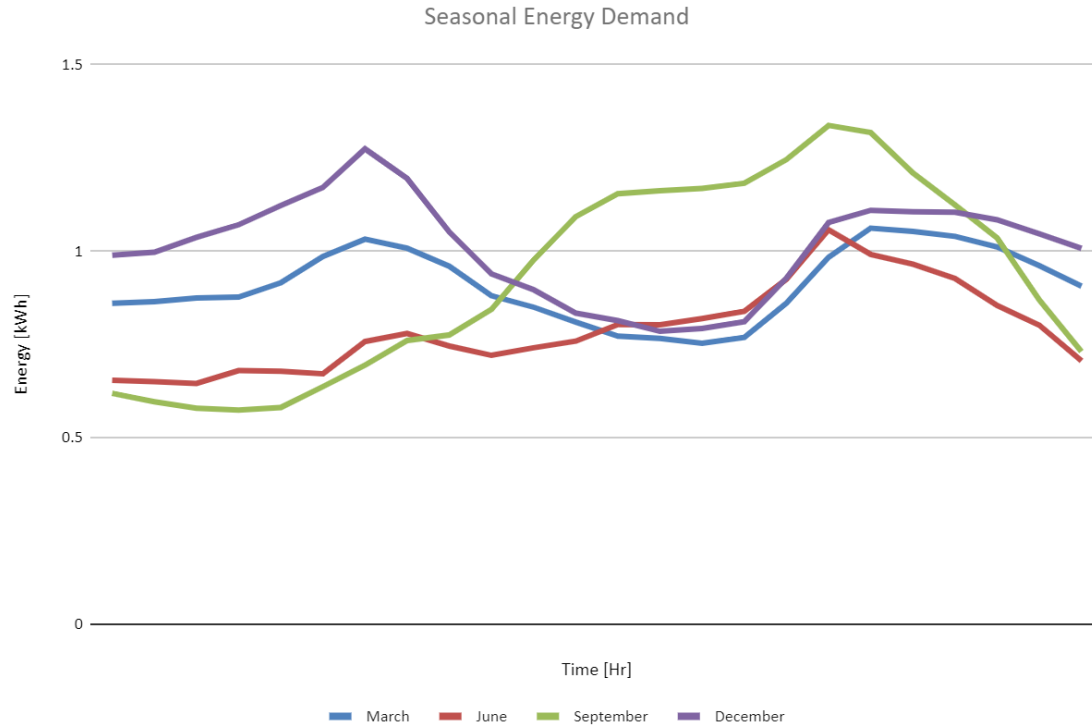
Longest Day: June 20, 2020

Energy Use Intensity



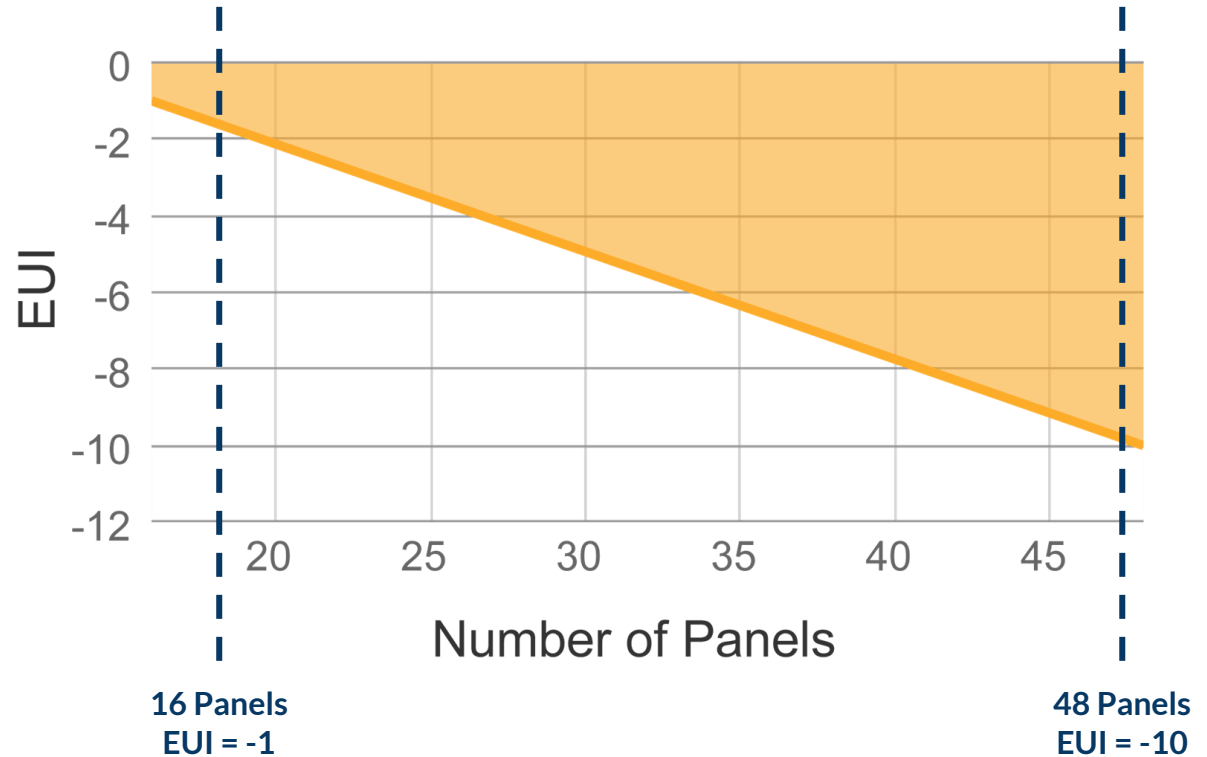
Energy Use
vs. Average
Household

Seasonal Energy Demand

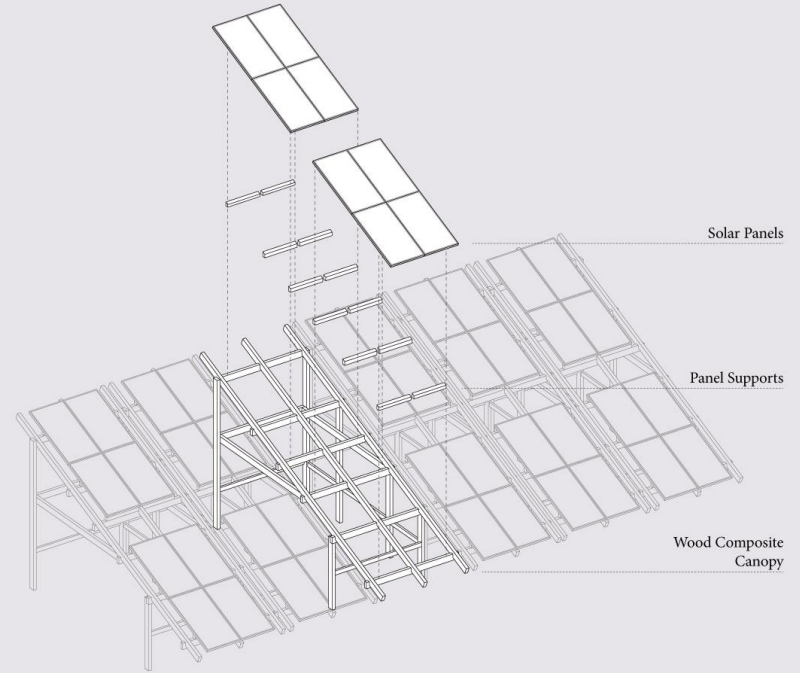
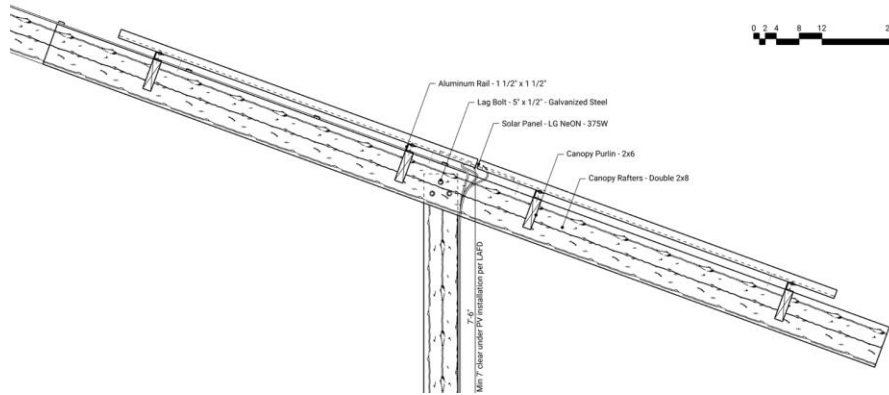


Energy Use Intensity

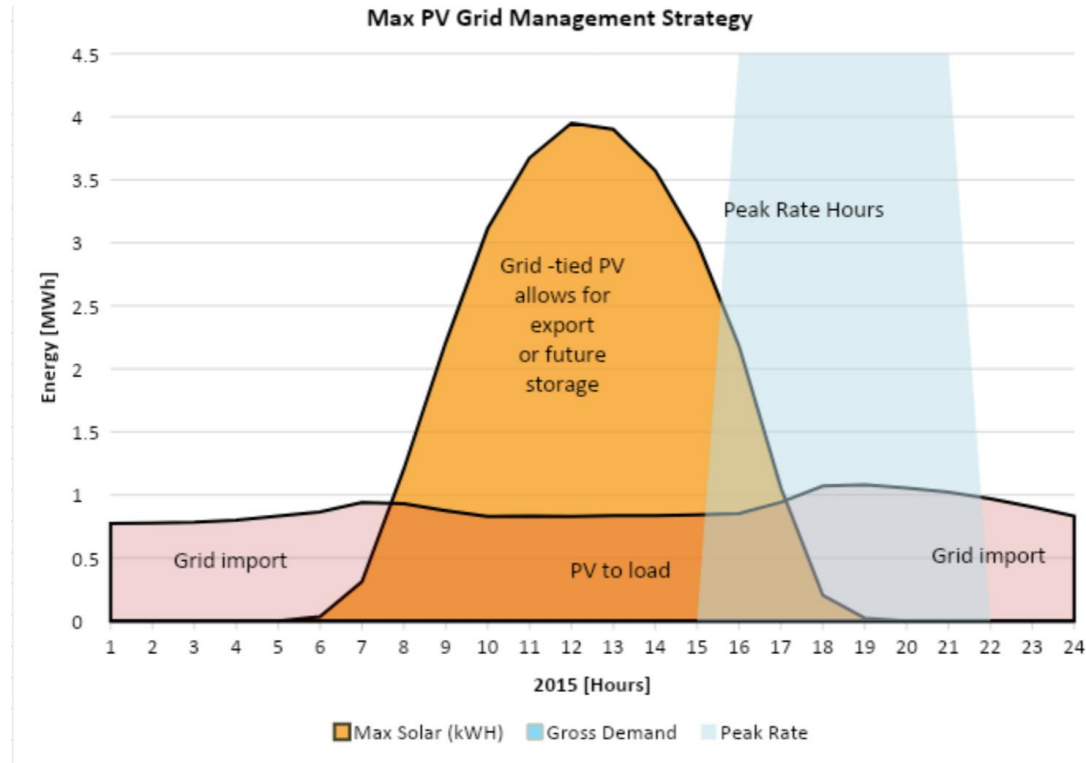
Our Energy Use Intensity (EUI) decreases as we install more Solar Panels



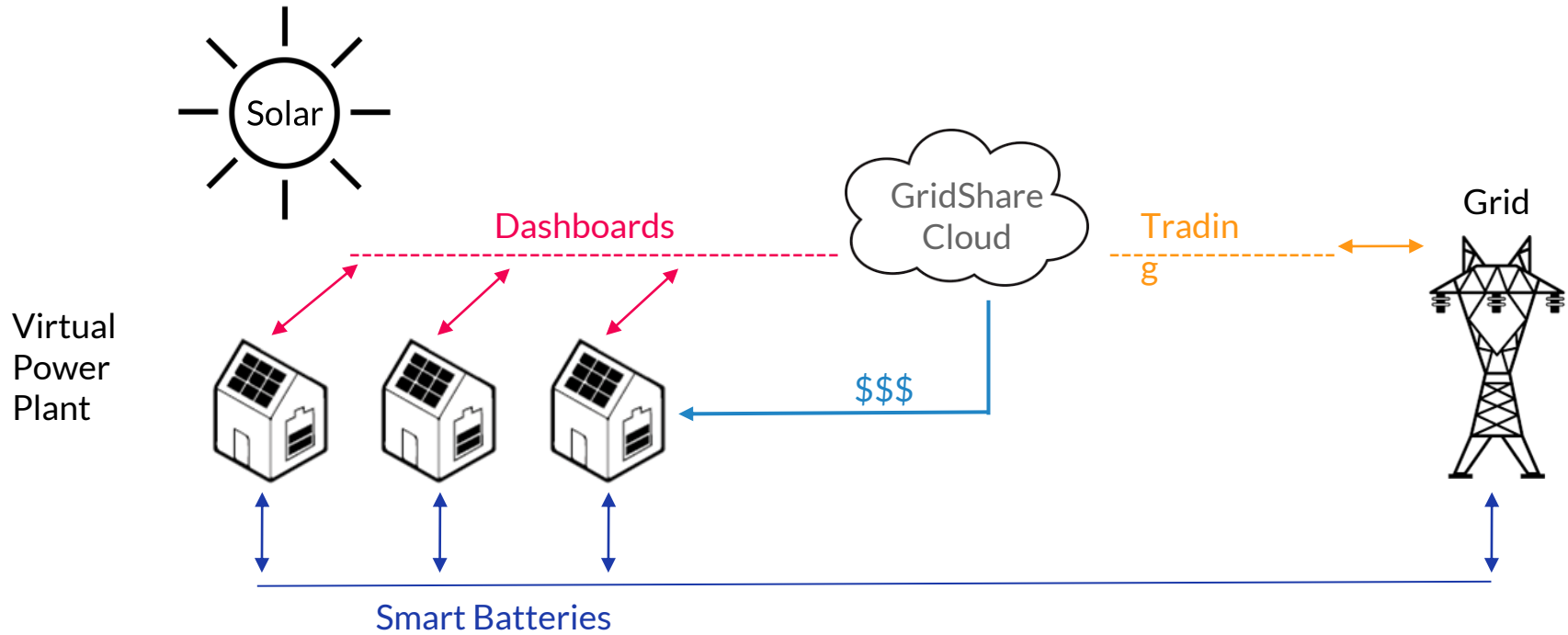
Energy Generation



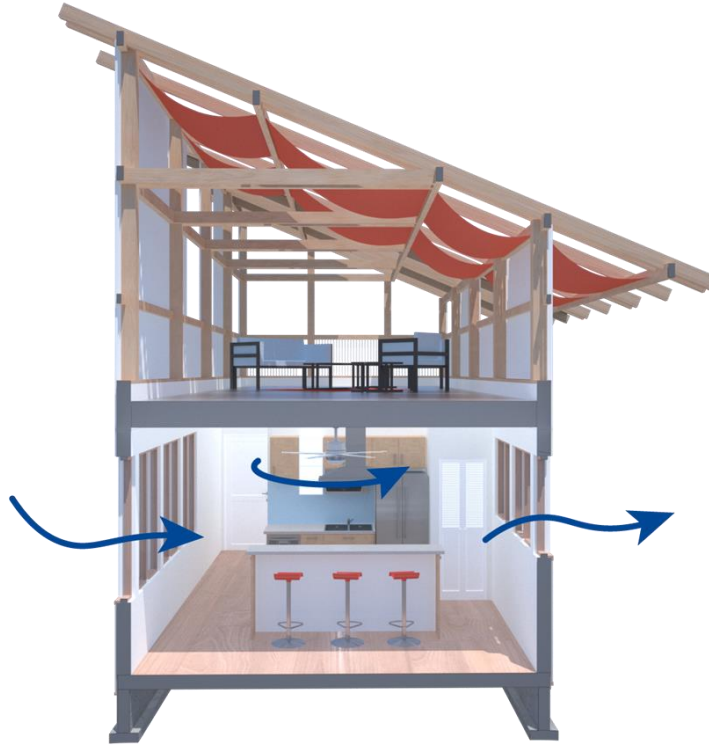
Solar Expansion



Future-Proof



Thermal Comfort

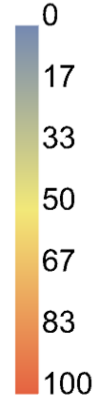


Lighting

Daylight Autonomy (300 lux)



% Occupied Hours



Living Room:
Mean Daylight Autonomy
= 76.08 % of time occupied

Bedroom:
Mean Daylight Autonomy
= 79.09 % of time occupied

Operations



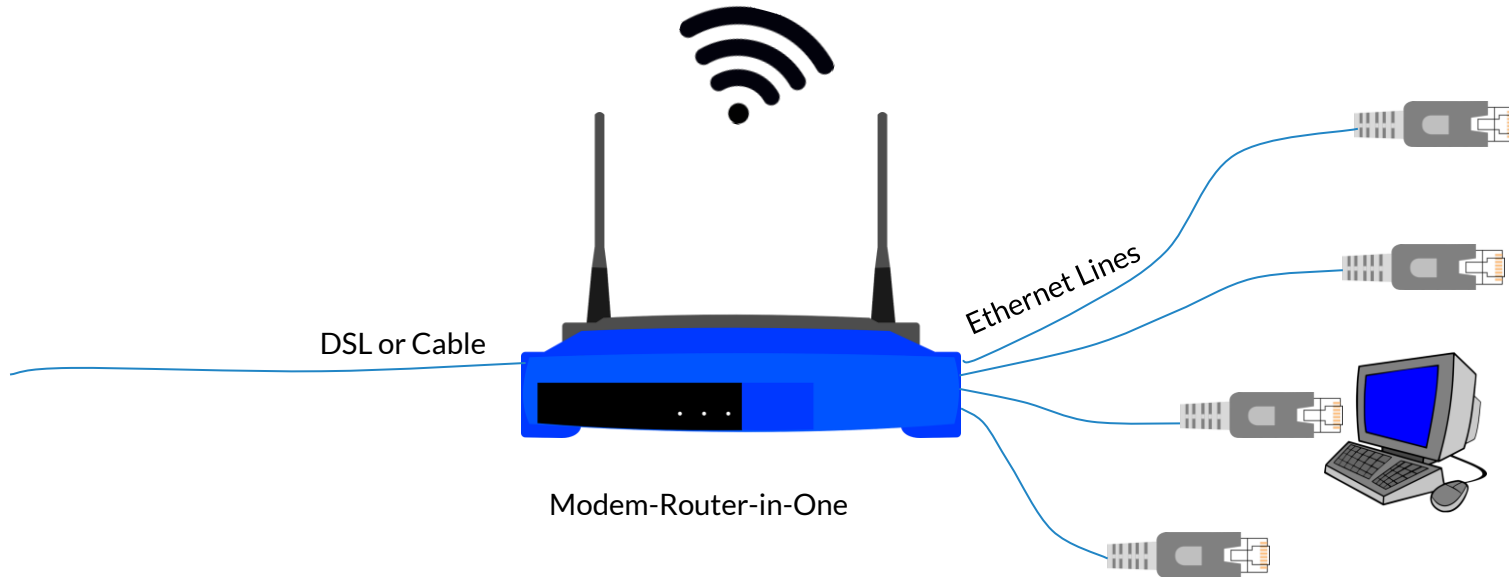
Appliances



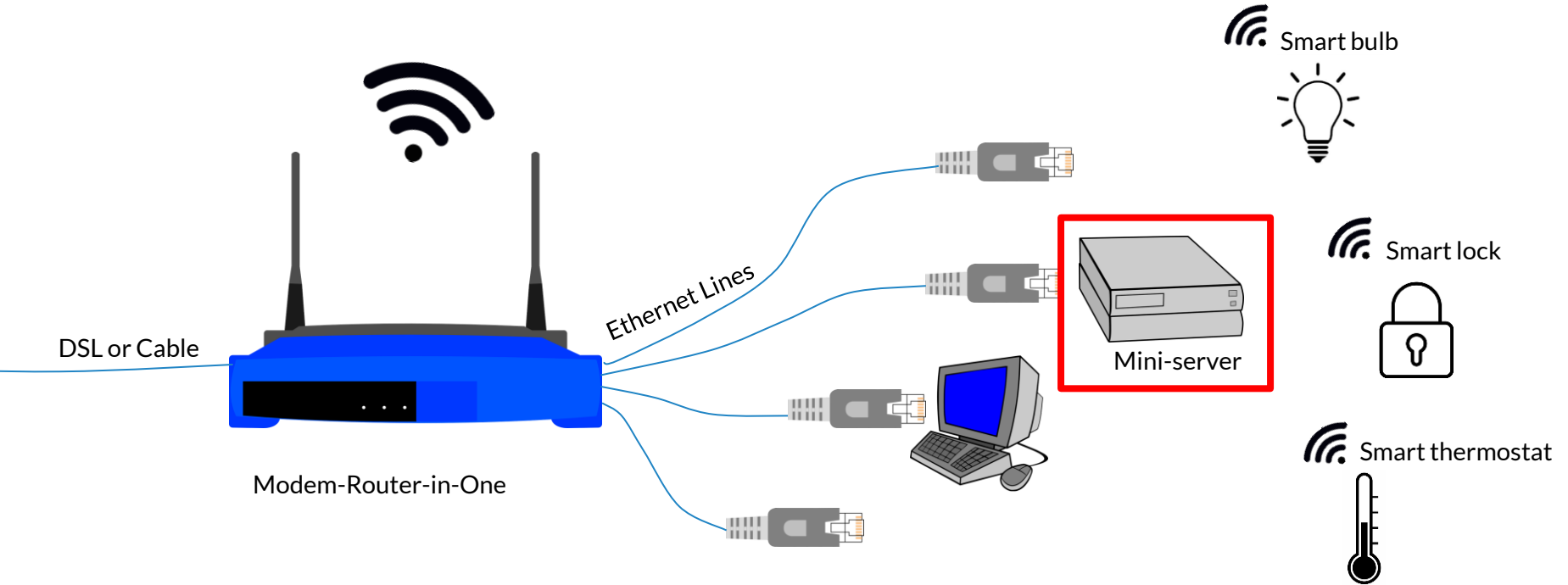
&



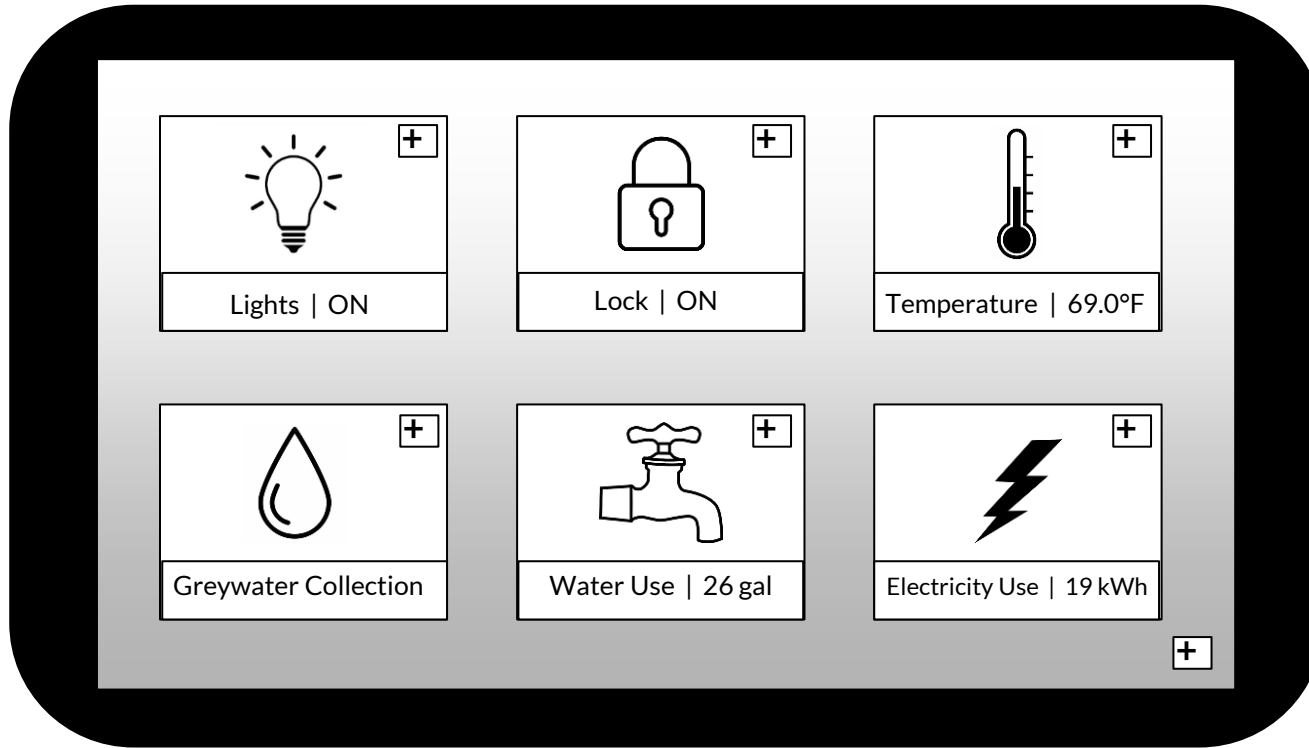
Core IT Infrastructure



IoT Infrastructure

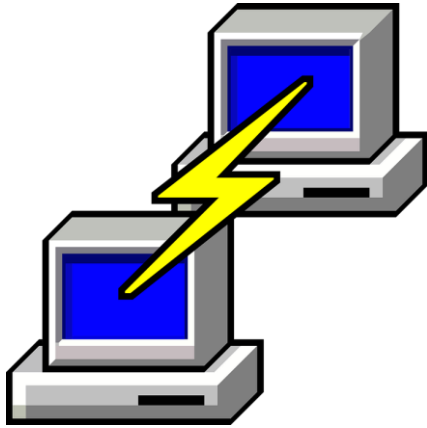


User Interface



- ▷ Basic Casa
- ▷ Más interface
- ▷ Pre-installed IoT devices

Extensibility and Customization



SSH via PuTTY to Access IoT Linux OS



Intel Edison Board

Operations



Equitable



Accessible



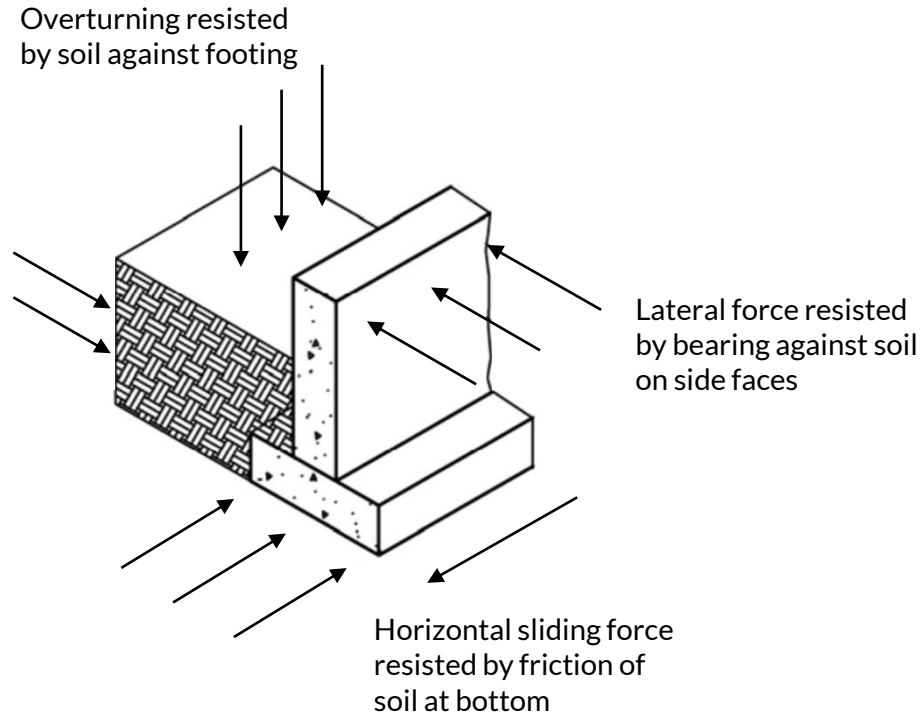
Easy to Use

Resilience

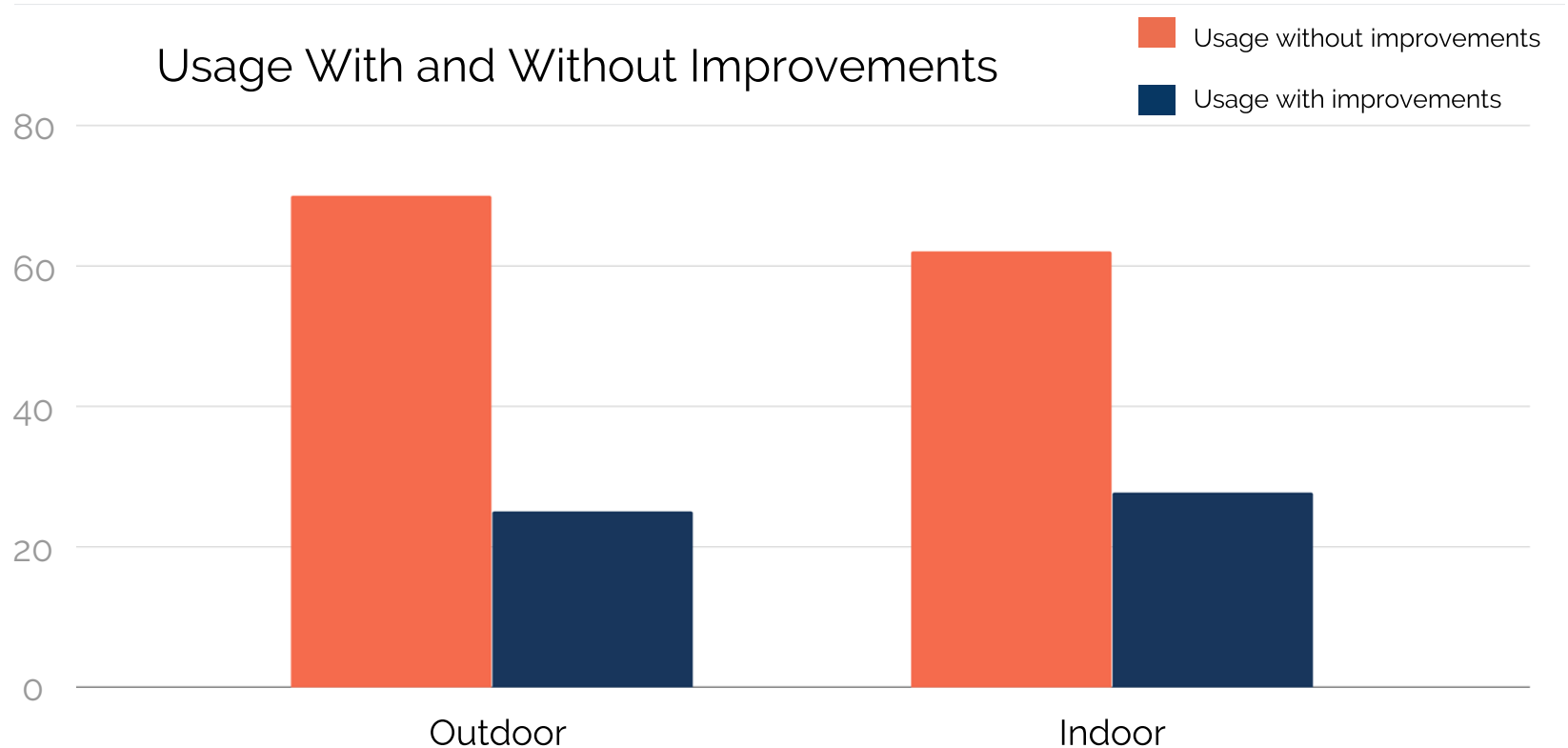
- ▷ Earthquake
- ▷ Drought
- ▷ Flood
- ▷ Fire
- ▷ Blackout
- ▷ Future



Earthquake



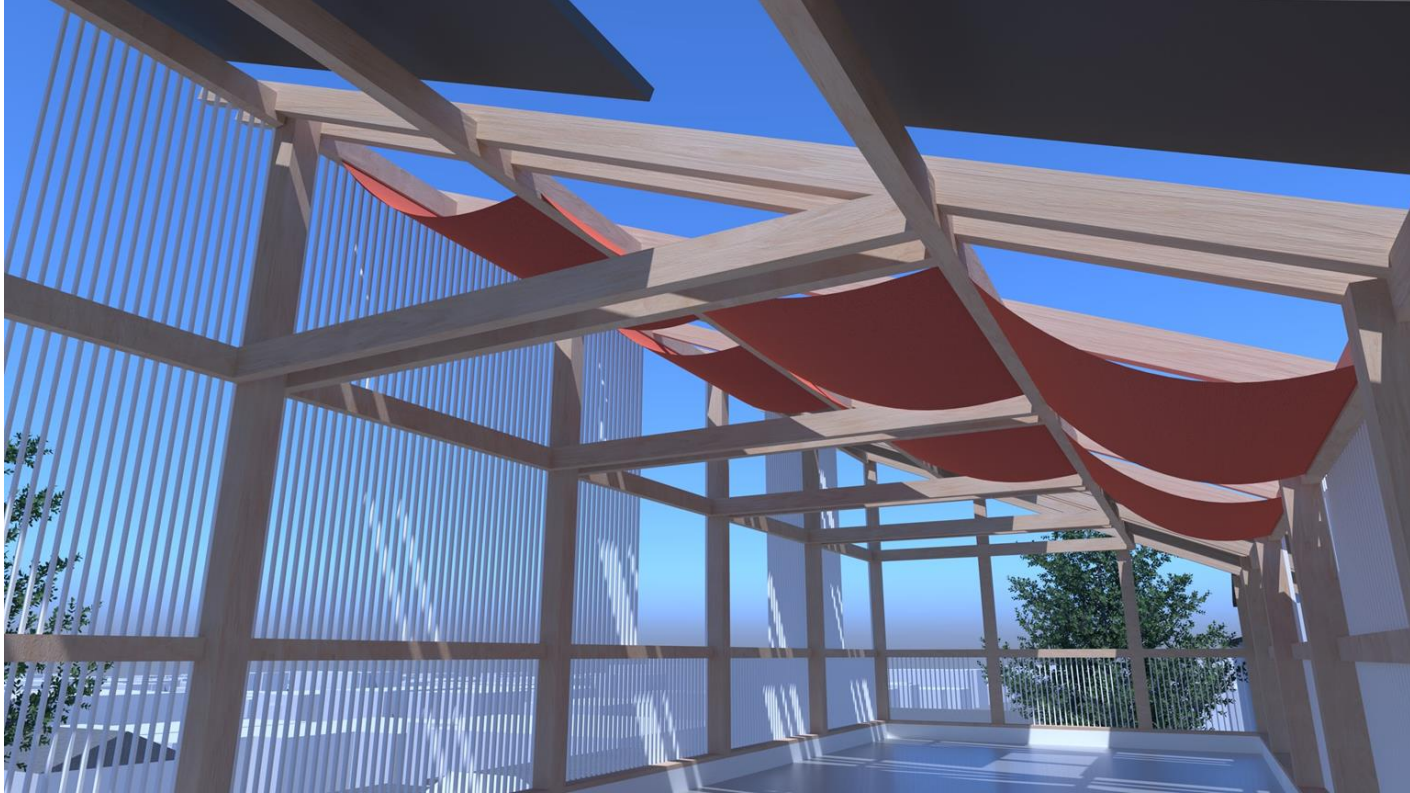
Droughts



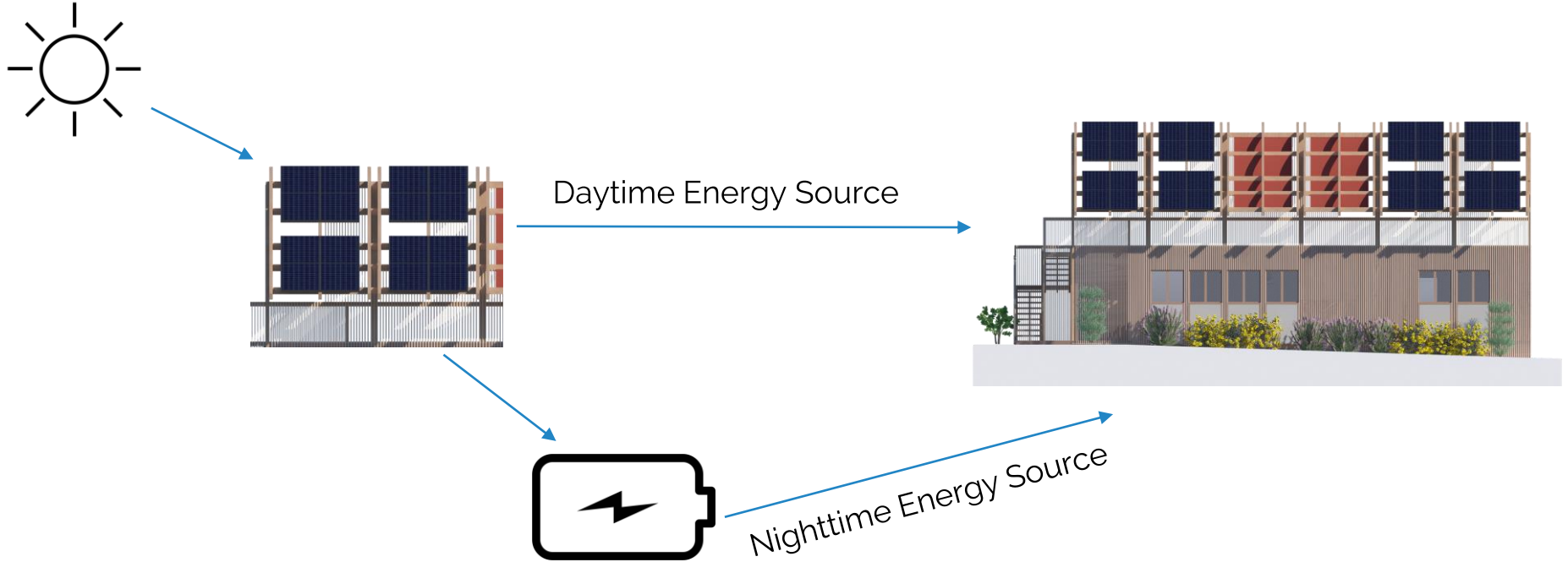
Flooding



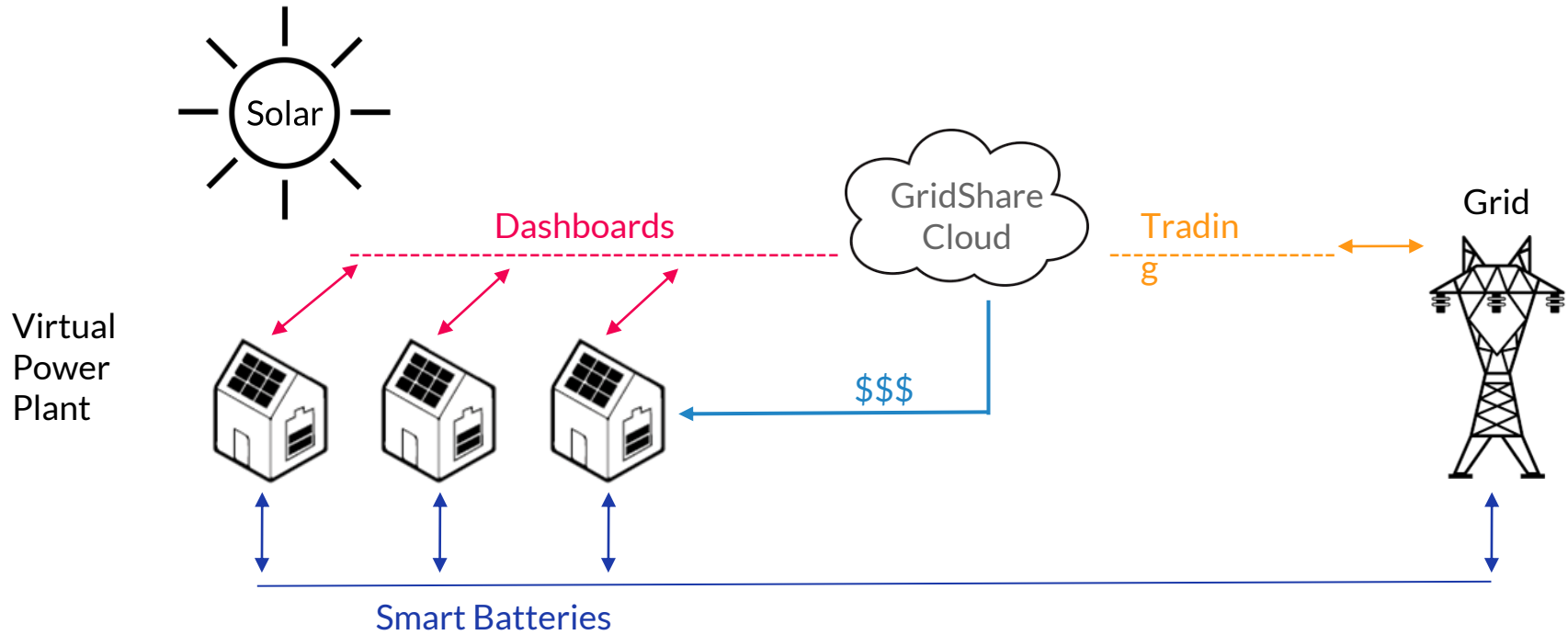
Fire



Blackout



Future-Proof



The Community

Important
city hubs

South Los
Angeles area

Recreation
and open
space

Jesse Ownes Park: 10m



LAX Airport: 45m



USC (College): 1h



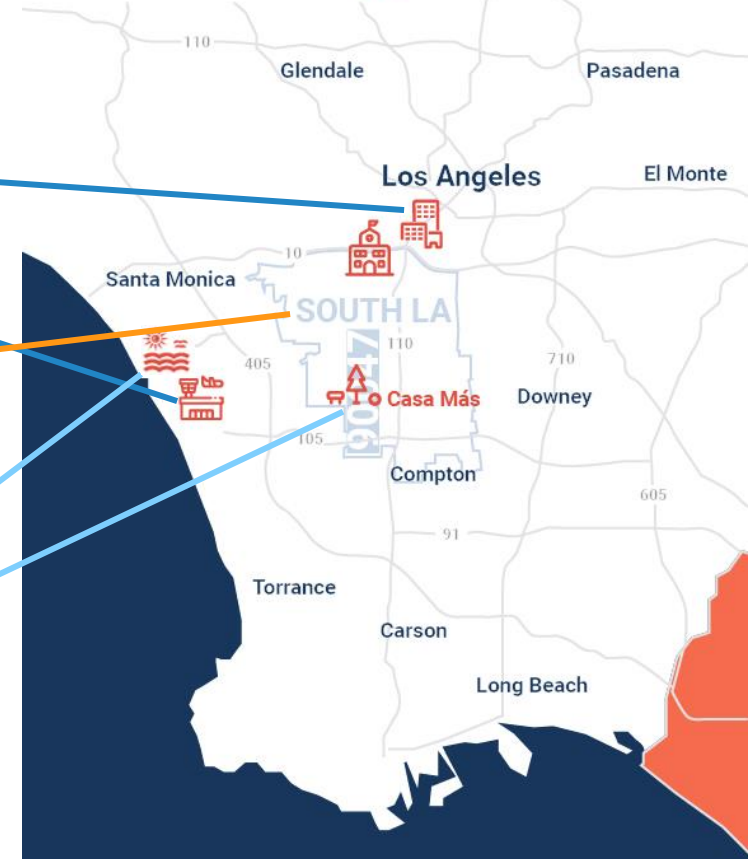
Downtown: 1h 20m



Dockweiler Beach: 1h 20m



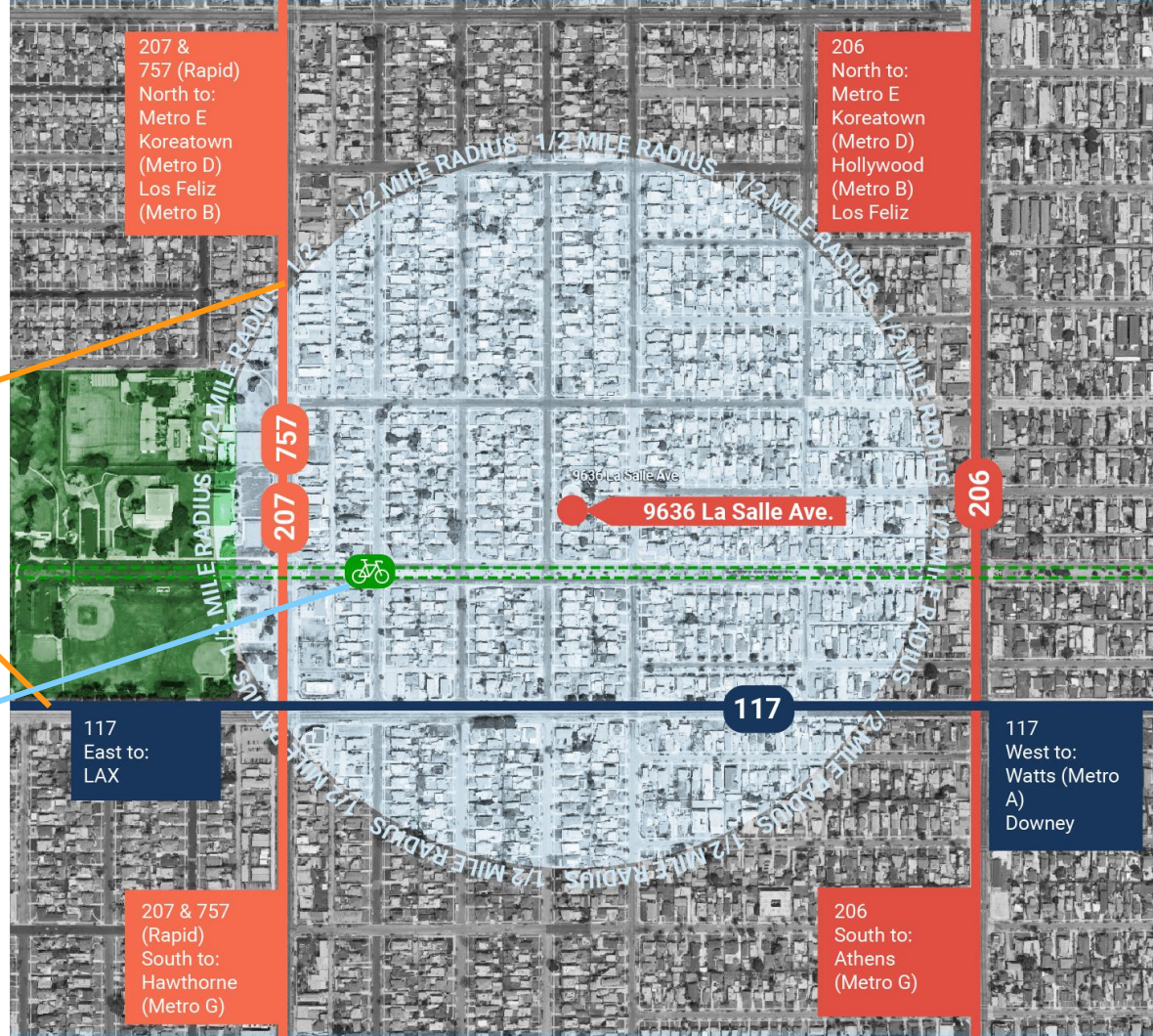
.K



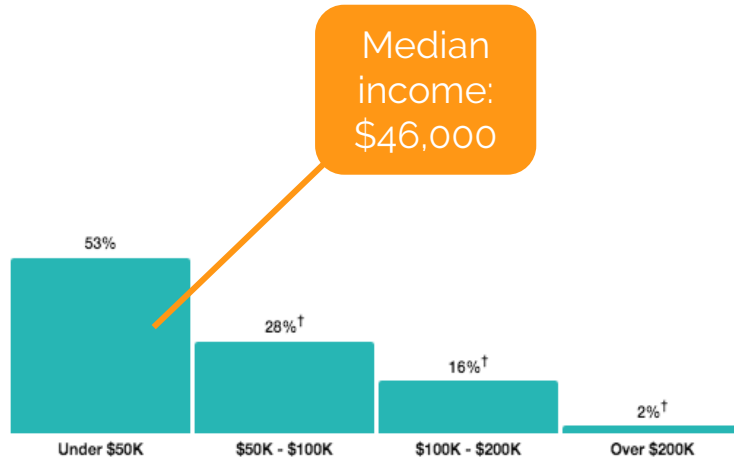
The Community

Proximity to
public
transportation
and cultural
hubs

Convenient
biking routes

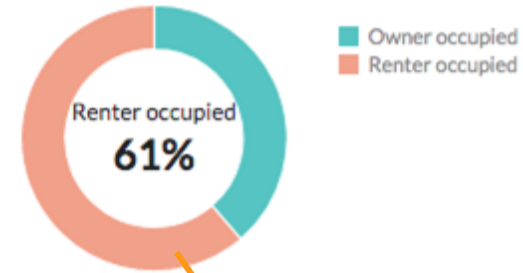


Challenges



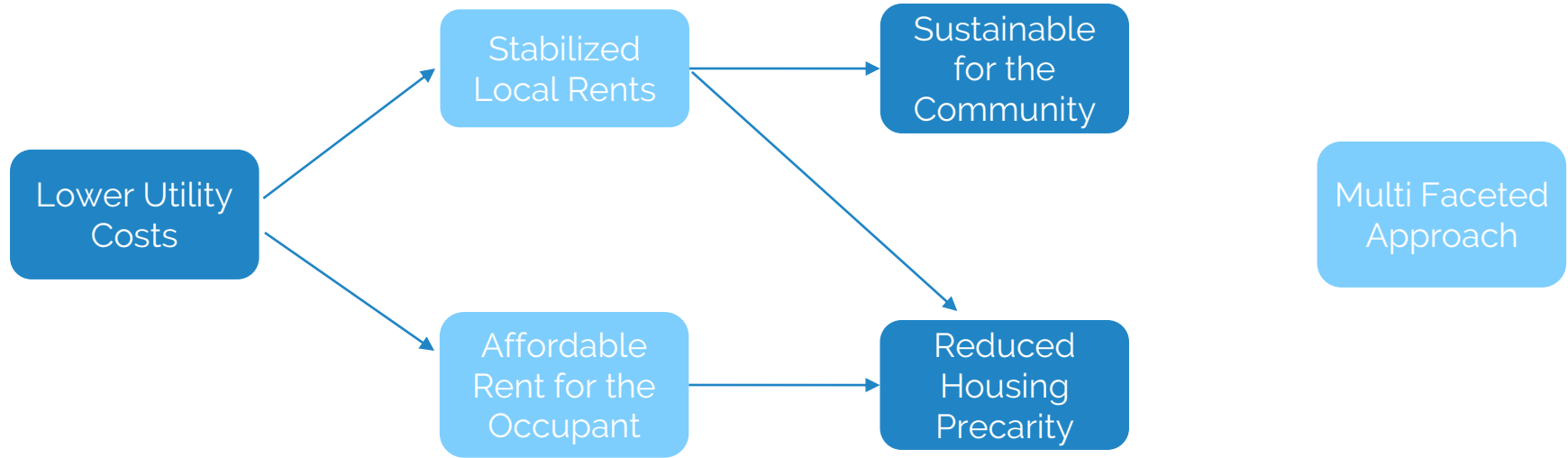
Household Income

Ownership of Occupied Units

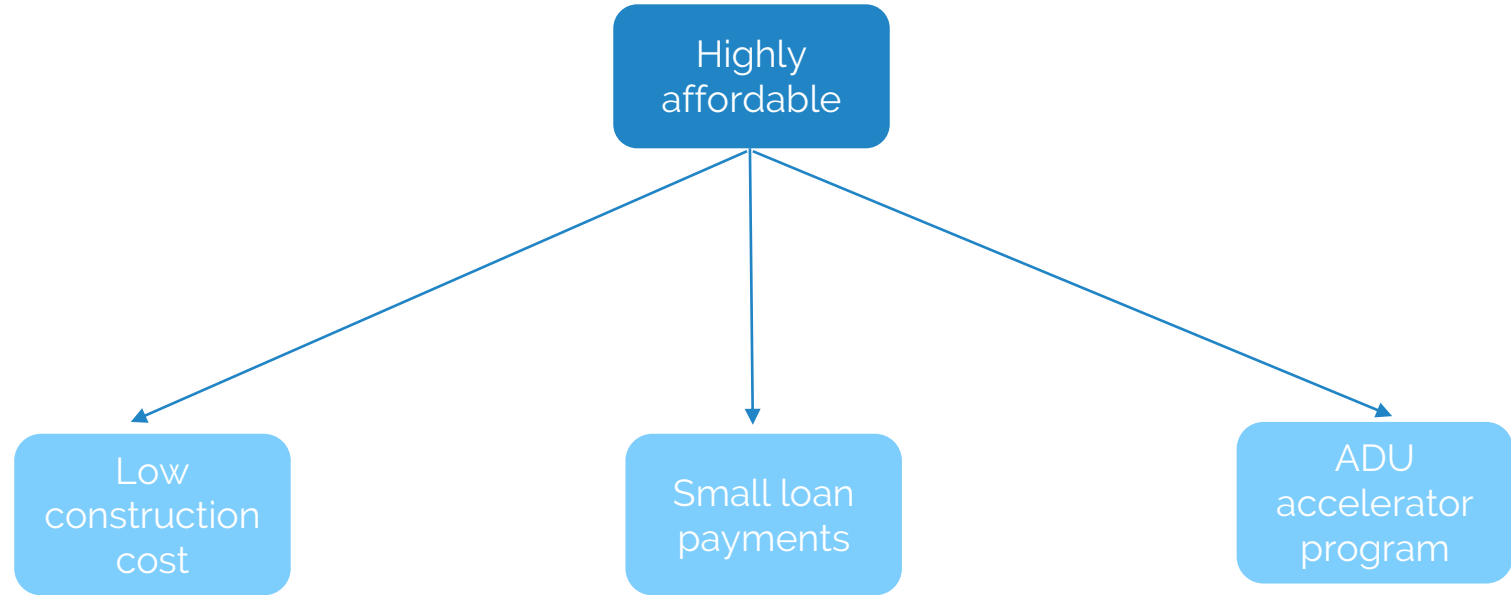


Average rent price:
\$2,500

The Más Approach



The Homeowner

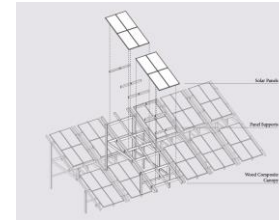


The Más Approach



Affordable
and modular

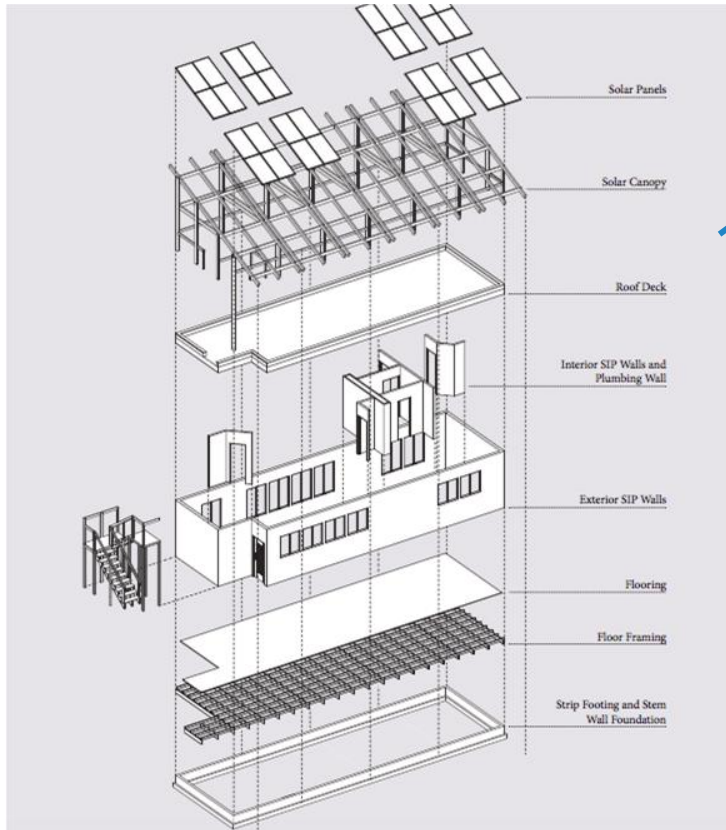
Resilient and
cost effective



Fire resistant
and
sustainable

Construction Cost Savings		
Construction Type	Casa Más	Standard Design
Exterior Walls	8,495	11,495
Batten	8,117	11,117
Canopy	6,453	14,453
Total Savings		14,000

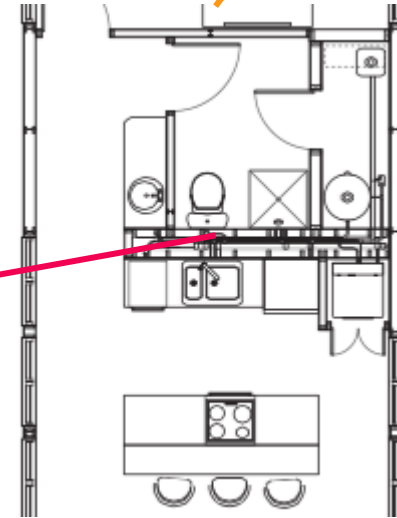
The Construction



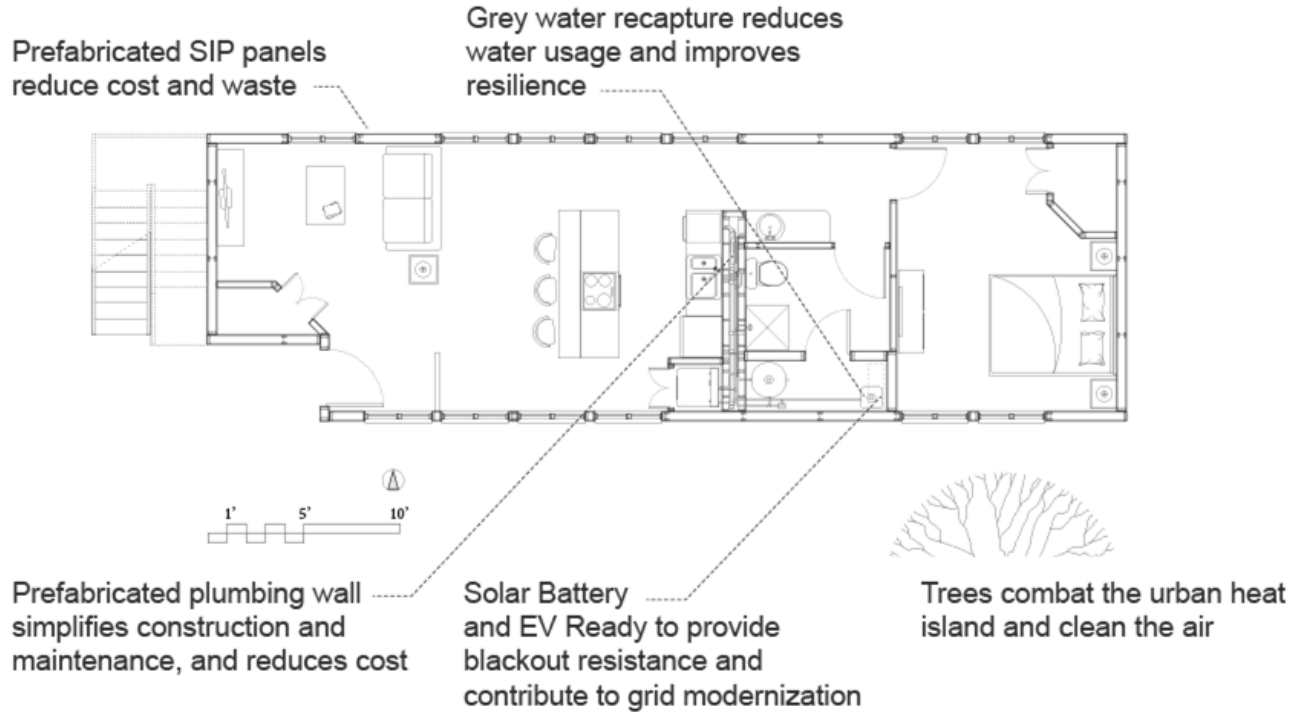
Reliable cost
projections

Smaller floor
plan

Simplified
design



Innovations



Innovations

Solar panels generate income to offset construction costs

Canopy structure provides patio space, shades structure, and can be converted to a second story



Sustainably sourced and fire resistant building materials

Earthquake resistant foundations that also minimize site disturbance

Xeriscape reduces water usage without sacrificing comfort or aesthetics



Casa Más
Welcome Home