

# RARE HAWAII

BUILD A BETTER FUTURE





THE FUTURE OF HOME DEVELOPMENT



## A BETTER WAY TO BUILD

At RARE Hawai'i we're committed to a better way to build homes.  
Our mission is to build high quality developments **using the latest in 3D printing technology.**



# A SHORTAGE OF HOMES



Between 2012 and 2023, the U.S. built approximately **7.2 million fewer single-family homes** than necessary to meet the growth in households.

In Hawai'i, there are **28,000 beneficiaries** awaiting houses on the current DHHL waiting list .

Hawaii needs a **faster way to build quality homes** within the next decade.



# TACKLING AFFORDABLE HOUSING

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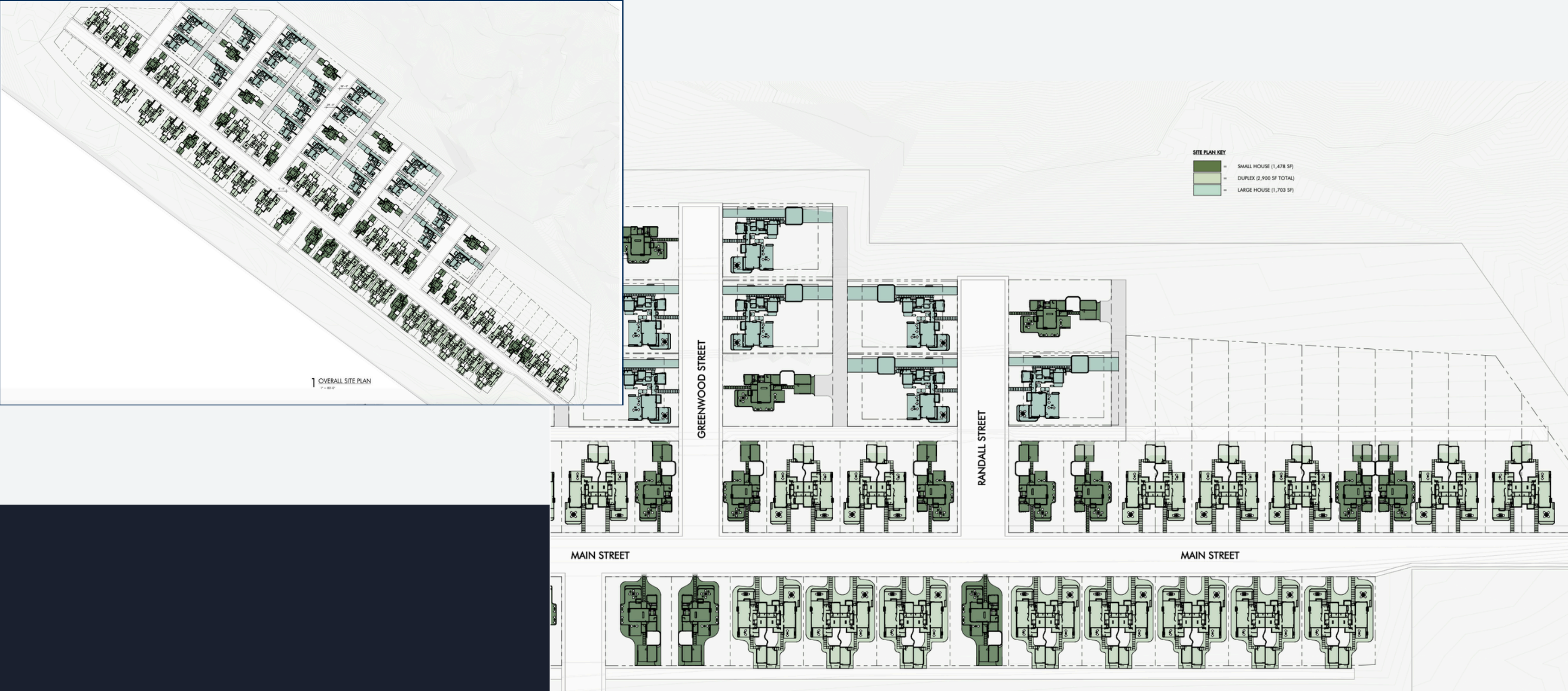


3D printed homes provide an efficient, effective, and affordable solution for a global problem in need of innovation. Easily customizable, these homes can fit a spectrum of community needs.



# BUILDING A COMMUNITY

## SAMPLE COMMUNITY PLAN



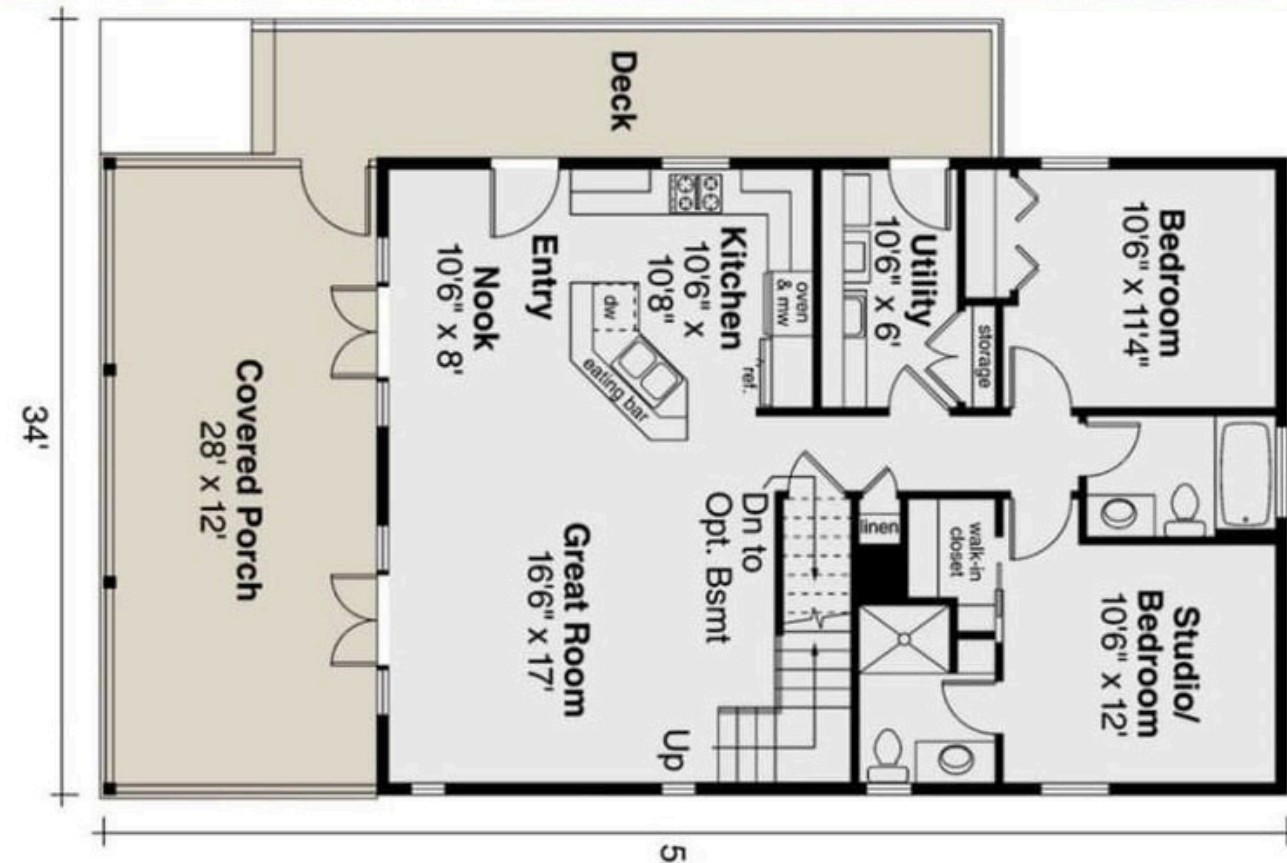


# SAMPLE HOMES





# SAMPLE HOMES & INTERIORS





# LARGER HOME DESIGNS





# WHY 3D PRINTED HOMES

## BENEFITS OF A WALL REPLACEMENT SYSTEM

**SPEED:** over 50 homes per printer/per year \*based on size

From blueprints and design to printing and curing, build homes faster. 2000 sq ft homes take 12 hours to print.

### LOW COST

3D printed walls lower the overall cost of building homes + **lower insurance and maintenance costs.**

### SUSTAINABLE, HIGH QUALITY MATERIALS

Built to withstand environmental factors such as: **hurricanes, earthquakes, fires, termites, extreme temperatures** and more.

### VERSATILITY

Computer aided design and 3D modeling lends to a **variety of design options** that encompass all considerations.



# ADDITIONAL BENEFITS



FannieMae  
FreddieMac

# 30%



## Decreased Cost

- Wall Construction
- Framing
- Sheet Rock
- Siding
- \$45-\$50 per sq/ft for interior and exterior wall system \*10-20 homes



## Waste Eliminated

Traditional construction methods can result in up to 30% of all building materials delivered to a site ending up as waste, meaning a significant portion of materials used in a typical construction project are discarded as debris. Not with 3D concrete construction.

# 99

year home



## Longevity

- Reduced human error, increased customization with automation.
- Print up to 10' walls in one printing.
- Withstand a category 5 hurricane.
- Print in any seismic zone.
- Prints without creating cold joints.
- No expensive concrete mix needed.



# SAMPLE DEVELOPMENT NUMBERS

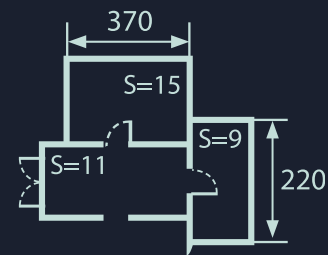
Units



4-8

per printer/  
per team/  
per month

Specs

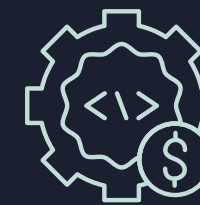


3<sub>bed</sub> / 2.5<sub>bath</sub>

1600-1800 sq ft

\*additional sizing available

Appraises



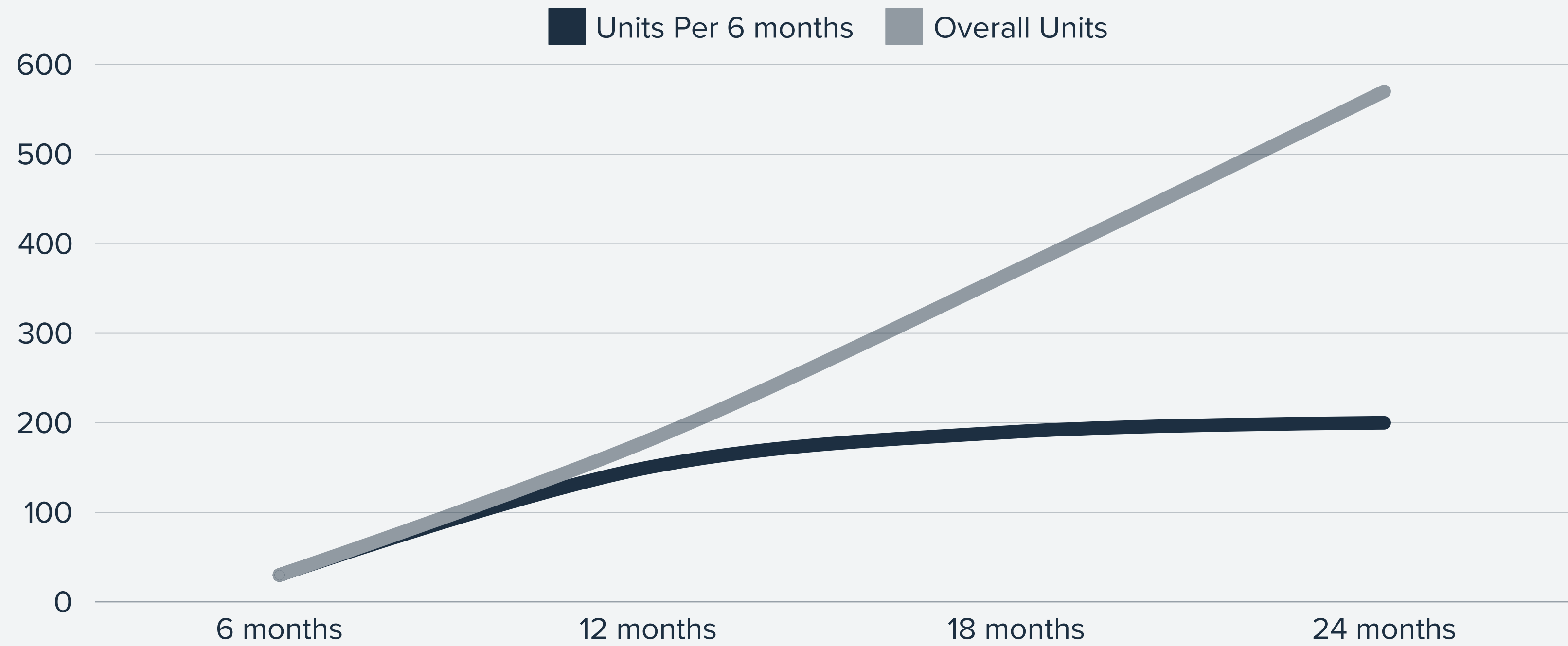
up to  
15-30%

versus  
stick build





# PROJECTED HOUSING UNITS





# TRAINING LOCALS

A TRAINING PROGRAM FOCUSED ON A LOCAL WORKFORCE

Bringing a new technology to market requires a level of **education and training** we can provide.

This training can create a new **highly skilled workforce** or advance the education of highly skilled laborers while **bringing jobs to Hawai'i**.

We can **work directly with the union and non-union workforce** to ensure the highest quality of training.





# AN INNOVATIVE ECOSYSTEM

At RARE Hawai'i we are working to make a difference in the housing development market. Being able to build quality homes faster will impact the waitlist significantly.

AFFORDABLE HOUSING

FINANCING AVAILABLE

HOME RENTAL PROGRAM

RENT WITH AN OPTION TO BUY

TARGET MARKET:

- NATIVE HAWAIIAN BENEFICIARIES ON DHHL LIST







BUILD A BETTER FUTURE

RARE<sub>HAWAII</sub>

THANK YOU!

FOUNDER: LAUREN SHIM