

HALE TAKAZAWA, Architect Research Owner

Hale Takazawa, AIA is an Architect, Researcher, and Owner of the firm HALE (pronounced hah-lay). The firm focuses on creating Living Buildings and Communities that are socially just, culturally rich, and ecologically regenerative.

Currently they are working on providing Technical assistance to various non-profit community partners who are applying for Environmental Protection Agency Community Change and Climate justice grants.

Famous projects Hale has worked on include:

the Akaka VA Outpatient Clinic in Kapolei, The Dole Plantation Store and Master plan, the Maui Ocean Center, and the Amundsen Scott South Pole station in Antarctica, and the Ko Olina Marina.

Hale is currently an Affiliate Graduate Faculty member at the University of Hawaii School of Architecture where he reviews Doctoral Candidates' final projects related to climate, sea level rise, and resilient buildings and communities.

Hale is currently on the Advisory Team for the National Science Foundation Convergence Accelerator Track K: Towards Resilient, Equitable, Safe and Sustainable Water for Islands (RESSI-H2O) Award Abstract # 2344418

Education: Iolani School 1986

Undergraduate: UCLA, BS Civil Engineering 1990

Graduate: University of Oregon, M. Architecture 1993

Graduate Teaching Fellow - 1992-93, Prof. Glenda Utesy, University of Oregon School of Architecture

Graduate Research Assistant - 1992-93 Prof. G.Z Brown, University of Oregon Energy Studies in Buildings Laboratory

Post Graduate Certificates:

2004 Planning and Design for a New Generation of Seniors: A Focused Look at Retirement, Harvard GSD

2006 Project Budgeting, Concept Estimating, and Life-Cycle Costing for Economic Sustainability, Harvard GSD

Internship: Ferraro Choi and Associates 1993-1996 Honolulu



Practice:

NCARB: 49964

Licensed in Hawaii - AR-9396

Owner at Pacific Atelier - 1998-2010

Director of Design - 87ZERO - industrial design 2012-2016

Owner at HALE, 2010-present

Community & Professional:

Hale sits on the Board of the Rotary Club of Honolulu Sunrise, the Read to Me International Board, the SHADE Institute Board.

AIA Honolulu Board of Directors - 2019-2021

AIA Honolulu Design for Risk and Resiliency Committee under president Joe Ferraro. - Founder and current chair.

AIA Hawaii State Council - 2019-2021

Projects:

Hale works as an architect with teams across the islands, nationally and internationally. His experiences range from work in the World Trade Center Twin Towers in New York, the Amundsen-Scott South Pole Station with Ferraro Choi, the Maui Ocean Center, master plans for Ko Olinga, The Dole Plantation Store Expansion, 1000+ units in Kona during the Kona boom of the mid-2000's, industrial and furniture design for Ward Village, and multiple luxury homes. He has been involved with growing 3-firms in his career - both in New York and Hawaii. Recent & Current Commercial Projects:

72,000 sf Hawaii Pacific University: relocate campus from the Windward Campus to the Water Front Towers. Worked as a subconsultant to Ferraro Choi

90,000 sf Veterans Affairs Outpatient Clinic, Kapolei. Working as a sub-consultant to Ferraro Choi

34,000 sf Senplex Campus move from old warehouse to upgraded facility for Airconditioning, plumbing, Sheet metal fabrication/ production, engineering and administrative functions.

20,000 sf Reflections Glass headquarter move from Waipio to an upgraded facility in Waipahu.



16,000 sf 724 Ekela - Bill 7 housing project converting a small, residential property to a 5-story 20 unit affordable housing project. Utilizing panelized heavy and light gauge steel, pre-fabricated construction strategies.

Recent & Current Residences:

Kodama Residence, self-sufficient Living Building, Agricultural Building, new residence, security residence, 15-acre Helmano Farm
Padwe Residence, gut renovation & new residence, Kapahulu
Ko Residence, new residence, Manoa
Blangiardi Residence, Penthouse renovation Honolulu
Bramhall Residence, gut renovation Portlock Beachfront
Murray-Kim Project, new residence, Portlock
86 S Kalaheo, gut renovation, Kailua Beachfront
Hauula Beach House, gut renovation, Hauula Beachfront
Chong Residence, new residence, Makaha Beachfront
Wong Residence, new residence, Manoa Streamfront, Floodway
Kemble Residence, Makiki Hts.
Verhoef Residence, Makiki Tantalus
Taber Residence, Punahou
Henderson Residence, Hawaii Kai

Current Activities:

Pursuing research grants w/EPA, NOAA and FEMA for sea level rise and resiliency Challenges related to self-sufficient infrastructure and buildings.
Pursuing housing research and collaboration w/ the AIA Honolulu Housing Committee for Ord. 19-8 (Bill 7) projects knowledge share.
Collaborating with CERENE and HIEMA's HHARP programs.

Follow writing and editorials on linked in:

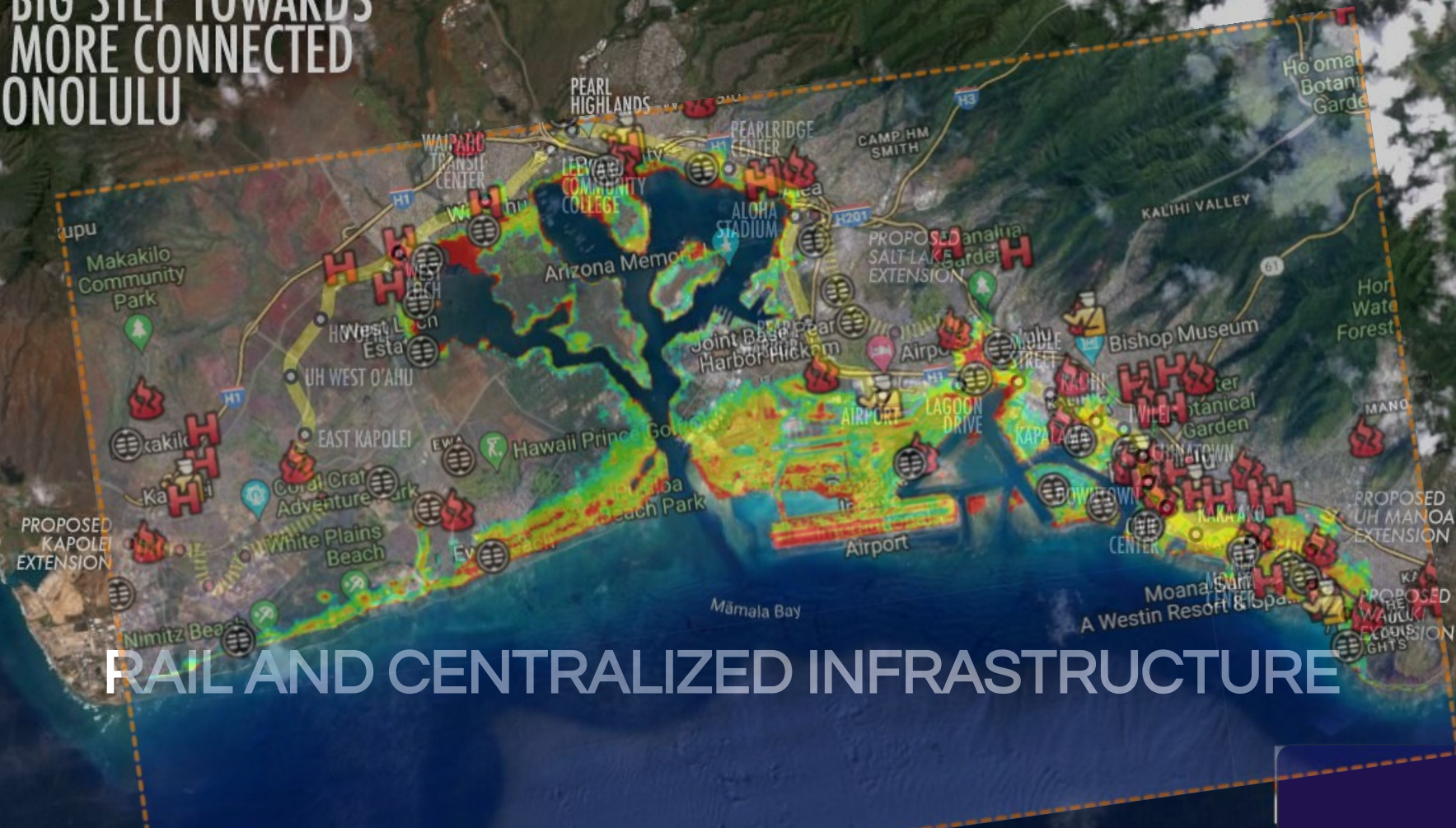
<https://www.linkedin.com/in/hale-takazawa/>



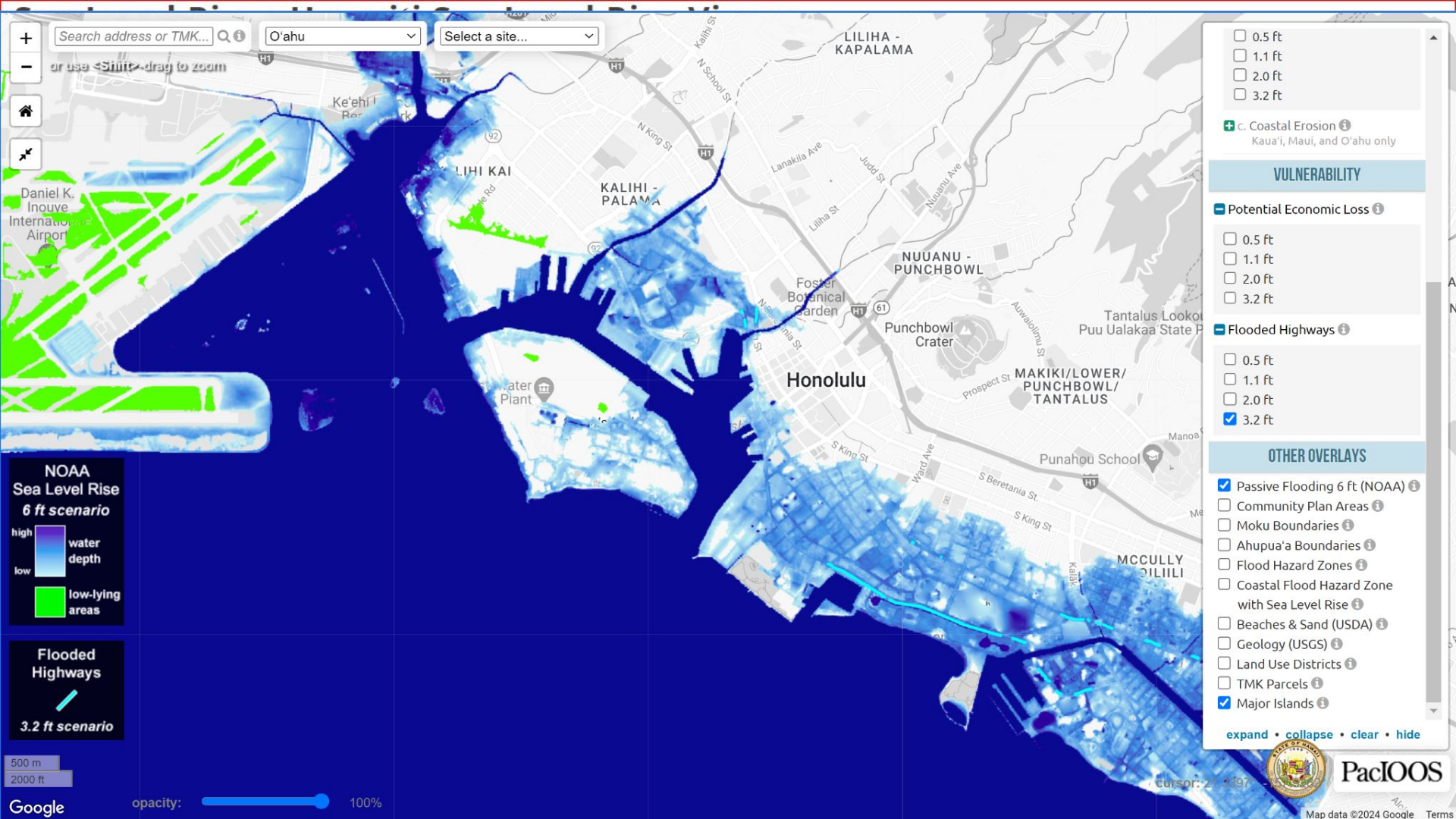
HONOLULU | UNPLUGGED KAKAAKO MAKAI



A BIG STEP TOWARDS A MORE CONNECTED HONOLULU



RAIL AND CENTRALIZED INFRASTRUCTURE



Search address or TMK...

O'ahu

Select a site...

or use **Shift** drag to zoom

**NOAA
Sea Level Rise
6 ft scenario**



**Flooded
Highways**

3.2 ft scenario



opacity: 100%

- 0.5 ft
- 1.1 ft
- 2.0 ft
- 3.2 ft

+ c. Coastal Erosion
Kauai, Maui, and O'ahu only

VULNERABILITY

- Potential Economic Loss

- 0.5 ft
- 1.1 ft
- 2.0 ft
- 3.2 ft

- Flooded Highways

- 0.5 ft
- 1.1 ft
- 2.0 ft
- 3.2 ft

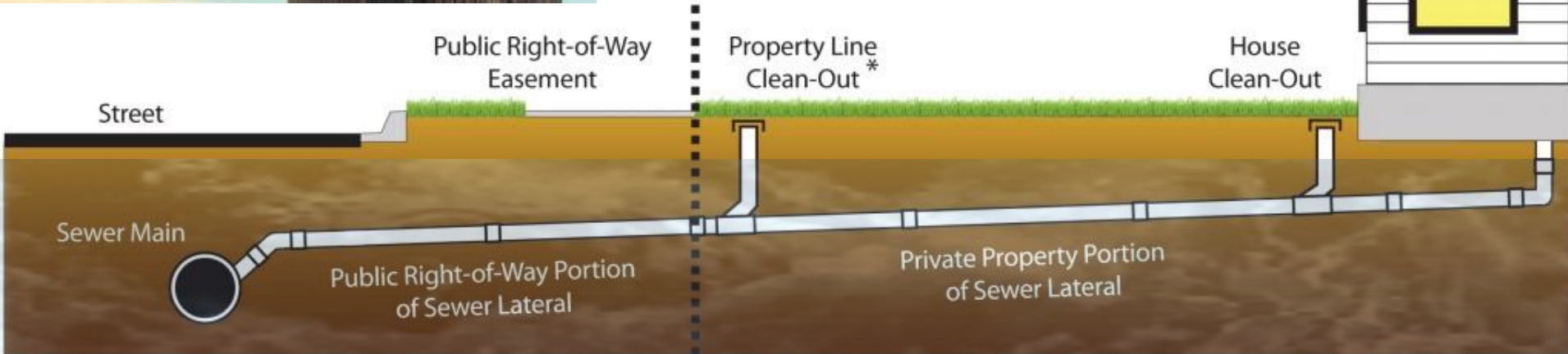
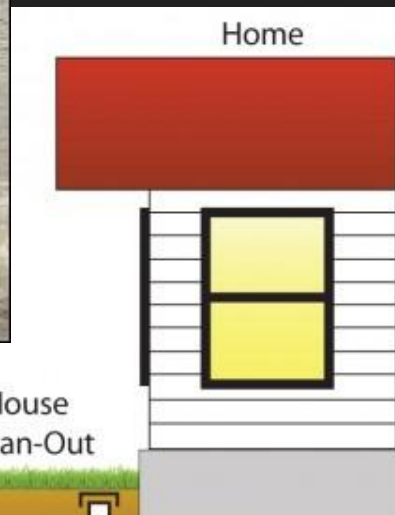
OTHER OVERLAYS

- Passive Flooding 6 ft (NOAA)
- Community Plan Areas
- Moku Boundaries
- Ahupua'a Boundaries
- Flood Hazard Zones
- Coastal Flood Hazard Zone with Sea Level Rise
- Beaches & Sand (USDA)
- Geology (USGS)
- Land Use Districts
- TMK Parcels
- Major Islands

expand • collapse • clear • hide



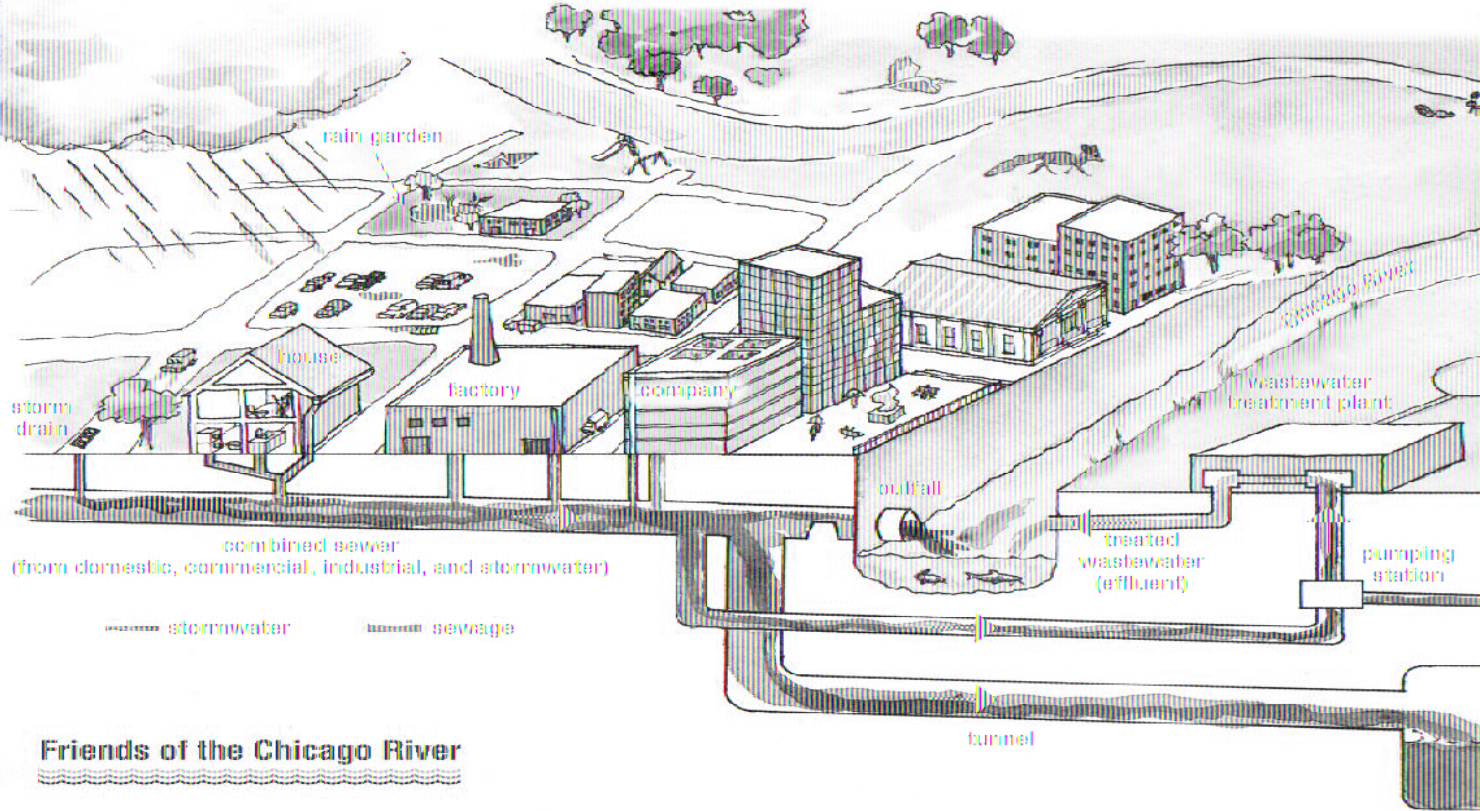
PacIOOS



WHAT HAPPENS WHEN SEWERS OVERFLOW?

*Not standard on all properties.

How Does the System Work When It Rains?



Friends of the Chicago River

FAST or SLOW water?

CIVIL ENGINEERS REPORT: The report includes an evaluation of the following categories: aviation (C-), bridges (C+), coastal areas (C-), dams (D), drinking water (D+), energy (C-), roads (D+), schools (D+), solid waste (C), **stormwater (D-)** and **wastewater (D+)**.

“The majority of Hawaii’s infrastructure has been operating beyond its useful life, and some components of systems are over 100 years old,” the findings said. **“Due to a lack of funding,** it has been difficult to effectively maintain and improve the existing infrastructure systems to keep up with increasing usage and rapidly changing lifestyles.”

March 7, 2019 - Star Advertiser

SEWAGE TREATMENT & INFRASTRUCTURE

► Most Charitable Companies P. 65

NOVEMBER 2017

HawaiïBusiness

LOCALLY OWNED,
LOCALLY COMMITTED
SINCE 1955

LIFE OFF GRID

4 HAWAI'I
ISLAND HOMES,
FROM AFFLUENT
TO NO FRILLS

p. 28

⊕
RAT
LUNGWORMS
CASUALTIES
WILL INCLUDE
MANY FARMS

p. 42

RURAL
HOSPITALS
ON LIFE
SUPPORT

p. 74

⊕
OFF-GRID COMMUNITY BUILDERS

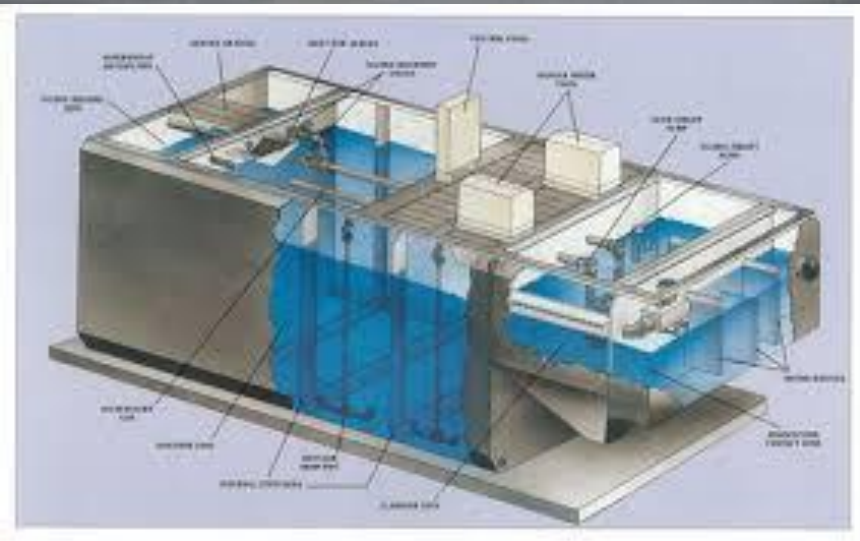
Mary and Galen live in a jungle-like setting in Puna.

NOVEMBER 2017 \$4.99

11

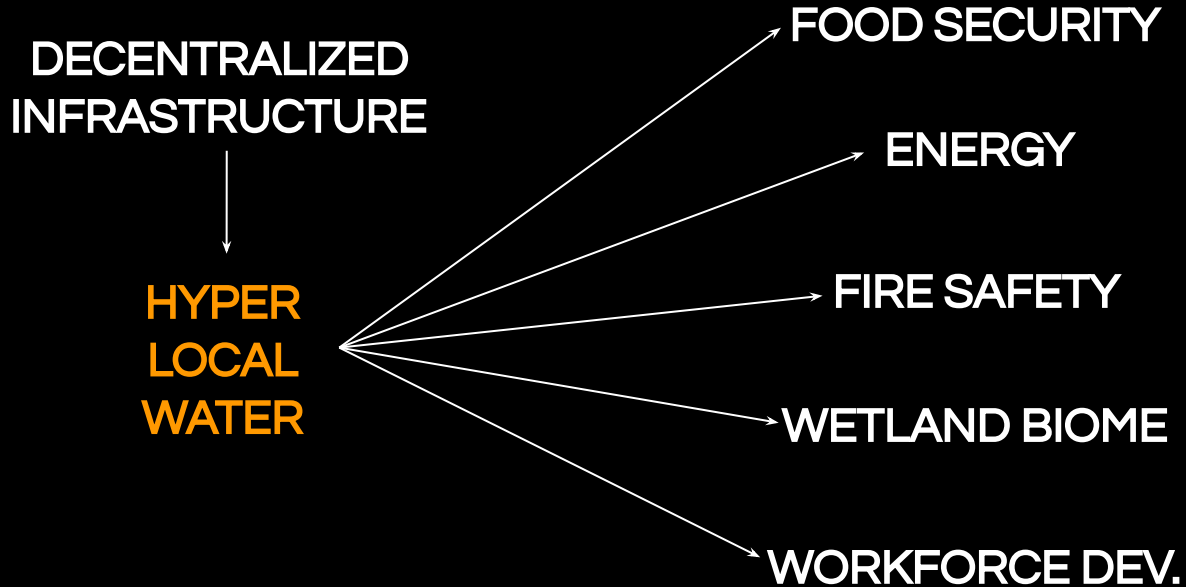


WATER COLLECTION
PHOTOVOLTAIC POWER
LOCAL SEWAGE
TREATMENT
EMERGENCY
INDEPENDENCE



WHAT IF WE DID THIS
TO ALL **LARGE**
BUILDINGS?

KEYSTONE PREMISE



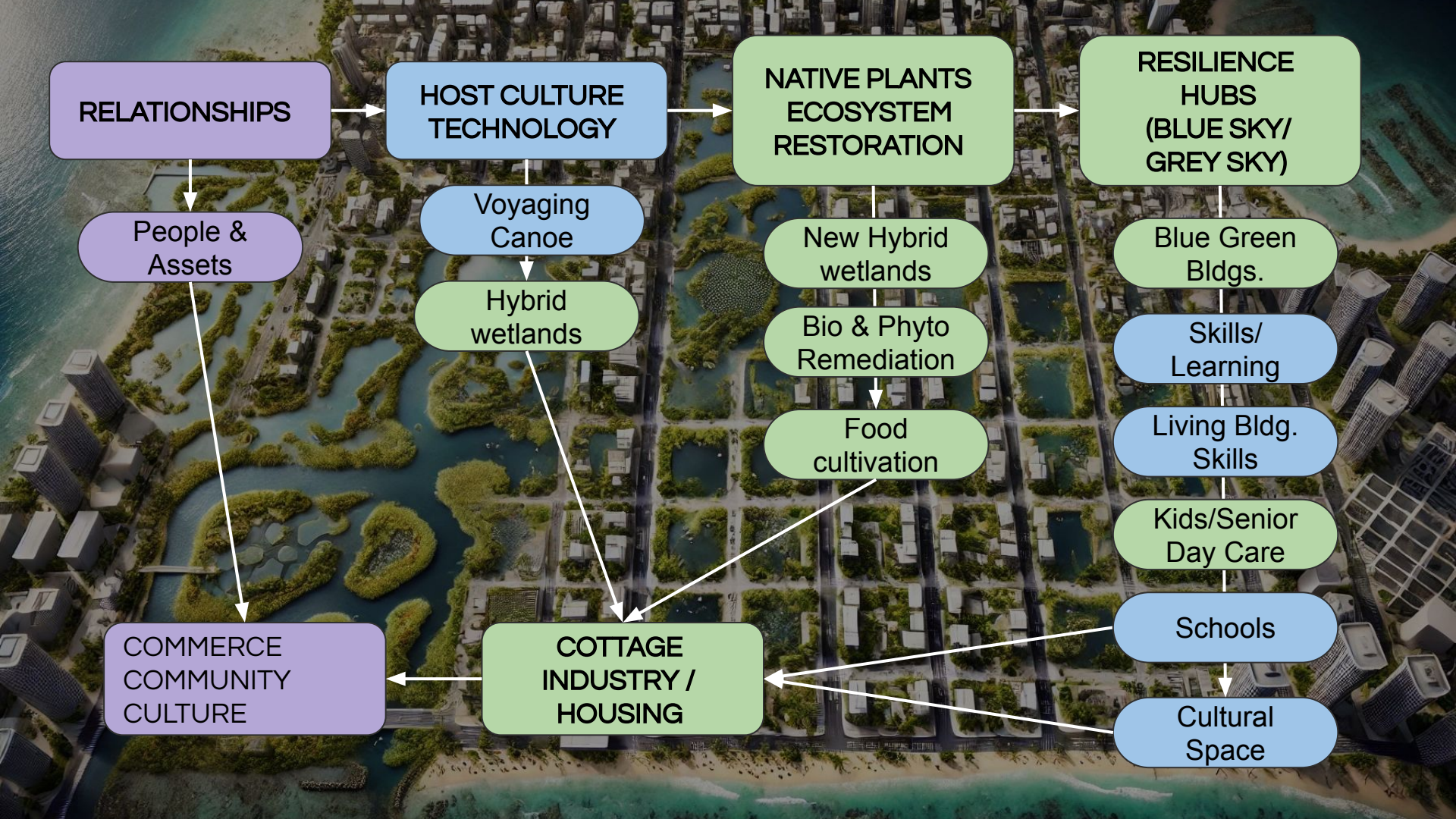
An aerial view of a futuristic city. A wide river flows through the center, with several floating agricultural plots. The city features a mix of modern, glass-clad skyscrapers and more traditional, rounded buildings. Green spaces and parks are interspersed throughout the urban landscape. The overall scene is bright and clear, suggesting a sustainable and advanced urban environment.

TRANSITION TO HYPER LOCAL MICRO-GRIDS

**SHARING POWER, WATER, SEWAGE
TREATMENT**

ENERGY SECURITY, WATER SECURITY

SELF-SUFFICIENCY= HAZARD MITIGATION



RELATIONSHIPS

People & Assets

COMMERCE
COMMUNITY
CULTURE

**HOST CULTURE
TECHNOLOGY**

Voyaging
Canoe

Hybrid
wetlands

**COTTAGE
INDUSTRY /
HOUSING**

**NATIVE PLANTS
ECOSYSTEM
RESTORATION**

New Hybrid
wetlands

Bio & Phyto
Remediation

Food
cultivation

**RESILIENCE
HUBS
(BLUE SKY/
GREY SKY)**

Blue Green
Bldgs.

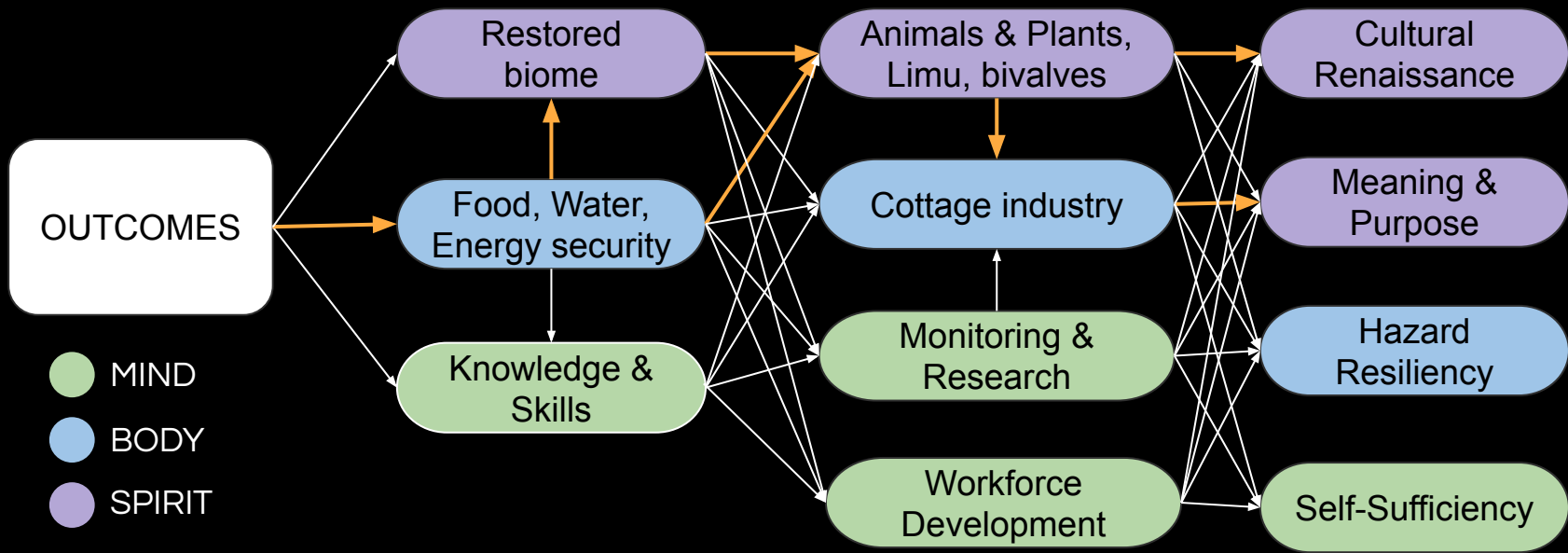
Skills/
Learning

Living Bldg.
Skills

Kids/Senior
Day Care

Schools

Cultural
Space





References and sources:

Douglas Tallamy, University of Delaware, Nature's Best Hope, 2019

International Living Futures Institute

[State of Hawai'i Sea Level Rise Viewer | PacIOOS](#)

[§ 43-1.5 Use of public sewers.](#)

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LIVING BUILDINGS