

matilda terolli

## portfolio.















### DOMESTIC ATMOSPHERES

DESIGNING SPACE THROUGH TEMPERATURE, NOT WALLS.





### RESIDUAL **FUTURES**

WHEN WASTE BECOMES THE MAP, THE ARCHIVE, AND THE RESOURCE.















TRACING HOW BODIES, FOOD, AND INFRASTRUC-TURE SHAPE SPACE.



























## Paris in 2100 Winter Room Spring Room Summer Room 30° C

### domestic atomospheres.

Status: School Project Location: Paris, FR

My Role: Climate Research, Concept Design, Modular

System Development, Technical Integration
Additional Credits: Philippe Rahm

Mariami Maghlakelidze

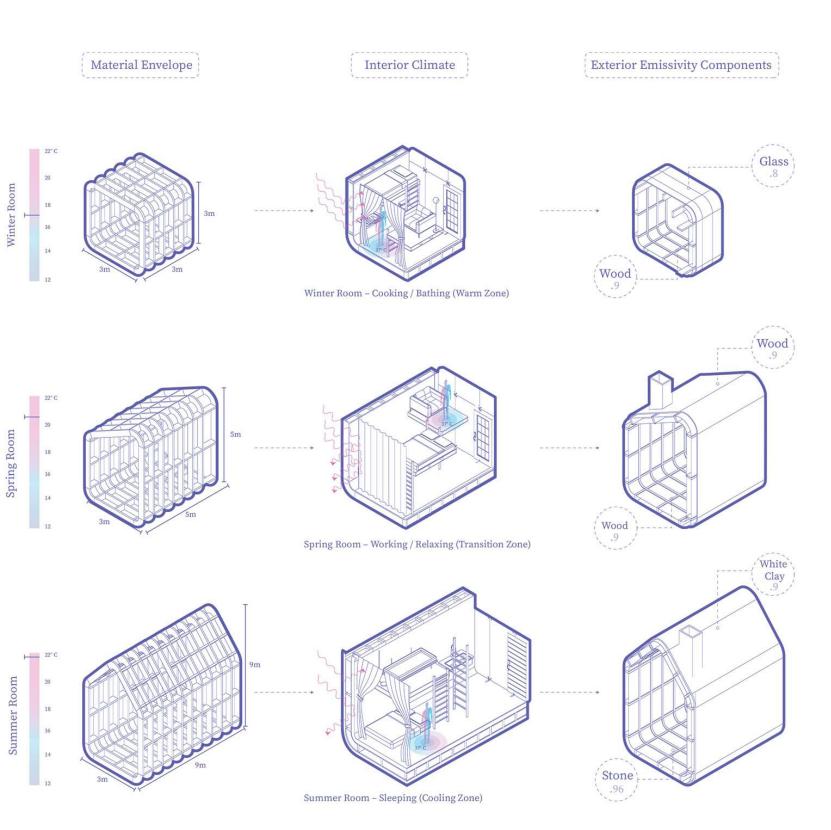
Coordinates: 48°51′ N 2°21′ E (Paris, 2100)

28°C - Humid Subtropical Climate

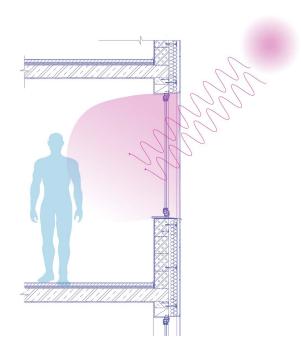
Due to the Paris Agreement, this project proposes climate-adaptive housing for Paris in 2100, addressing rising temperatures, thermal stress, and the need to reduce building emissions (currently 39% of global CO2). The design introduces three seasonal volumes with 25 cm insulation: a flatroofed winter unit for heat retention, a shed-roofed spring unit for cross-ventilation, and a pitched-roof summer unit optimized for cooling.

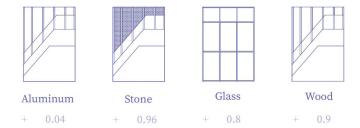
Bedrooms shift vertically with the seasons-highest in winter, mid-level in spring, and ground level in summer - linked by ladders and compact floors. The modular system transforms an existing  $5\times18\times30\,\mathrm{m}$  structure into micro-living units that maintain  $20\text{-}28^\circ\mathrm{C}$  thermal comfort while minimizing energy demand.

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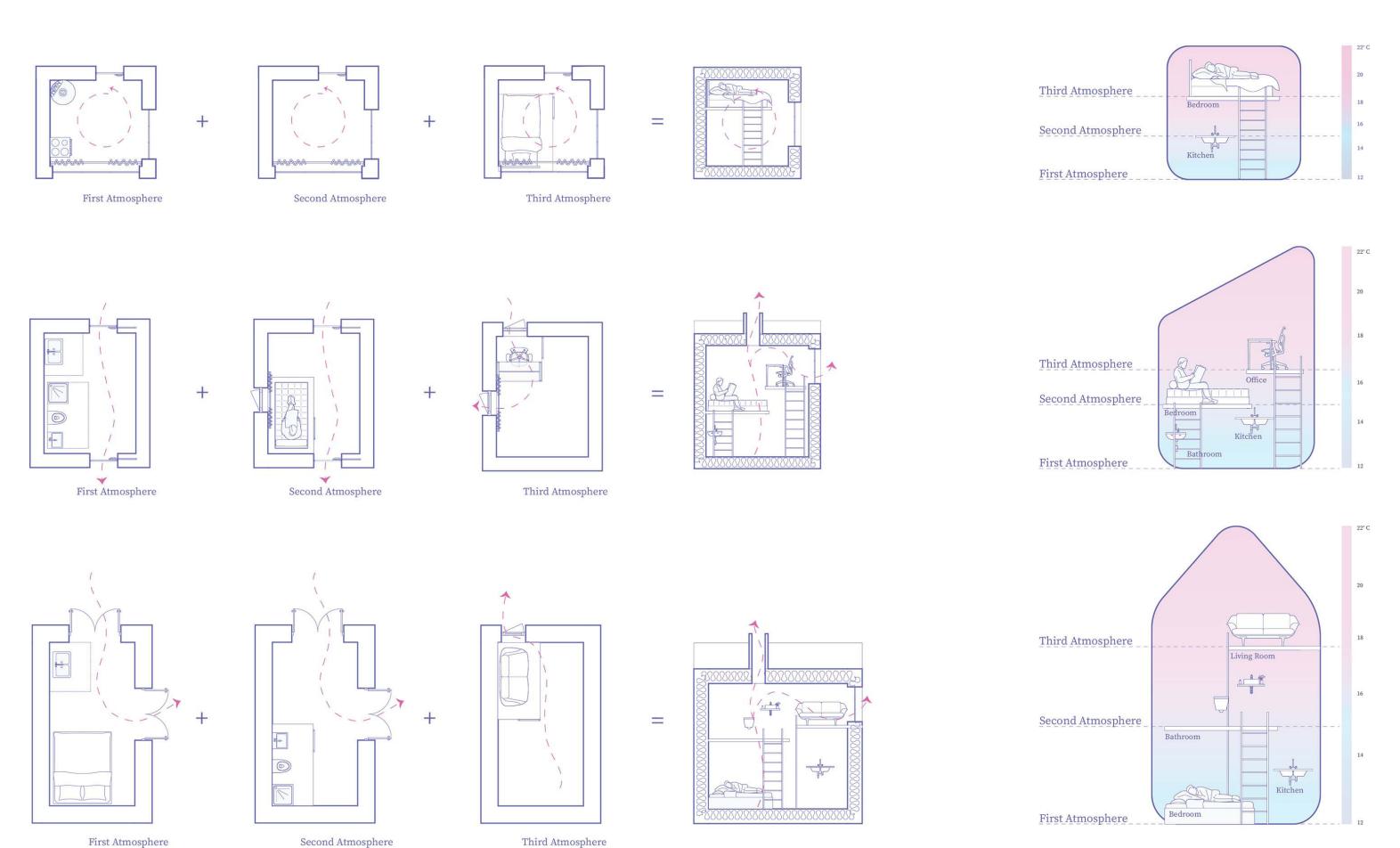
Across the year, the body experiences heat, shade, moisture, and air differently, so the architecture shifts with it. Each room becomes a small climate: winter is warm and enclosed for cooking or bathing, spring opens slightly for working and relaxation, and summer is the coolest space for sleeping. The envelope, interior airflow, and material selection are not decorative choices but thermal tools. High- and low-emissivity materials shape how heat is absorbed, stored, or released, creating comfort without mechanical systems. The section and material diagram reveal how radiation interacts with the human body, showing that climate can be designed through surfaces and form, not just temperature control.



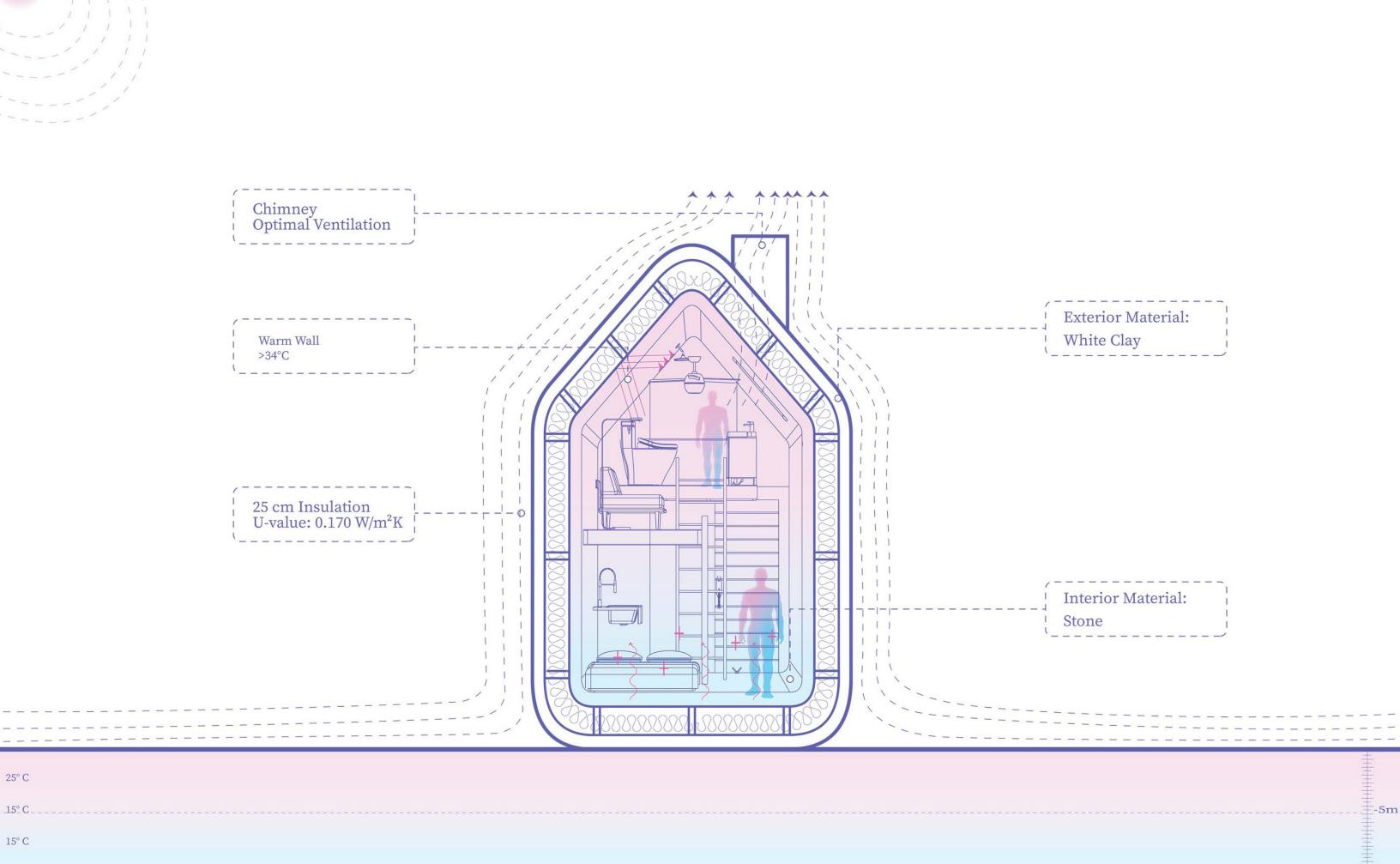


Pg-6 Pg-7

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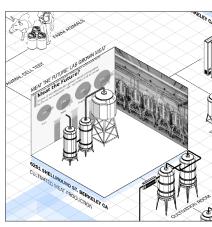
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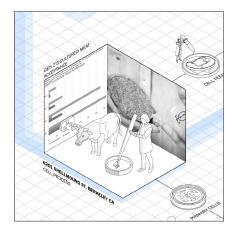
### **Cultivated Meat Production.**

MEAT THE FUTURE: LAB GROWN MEAT

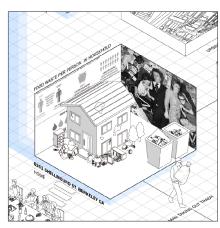


### Cell Process.

GEN Z'S CULTURED MEAT ACCEPTANCE



FOOD WASTE PER PERSON IN HOUSEHOLD



### **GUTSCAPES**

Status: School Project Location: New York, NY

**My Role:** Concept Development, Research + Framing, Design + Visualization, Editorial + Writing

Additional Credits: Uriel Fogué

Gutscapes Gazette is a speculative 'mobile food bank' publication that combines news, ideas, recipes, puzzles, stories, and a catalog of parts. Each issue explores food insecurity, urban ecologies, and systems of production and distribution. This edition focuses on initiatives in the Bronx, New York, examining how capitalism shapes not only our neighborhoods but also the way food is grown, circulated, and consumed. Addressing this crisis requires shared responsibility: between governments, nonprofits, farmers, supermarkets, restaurants, and individuals.

The mobile food banks envisioned in the Gazette function as distributed infrastructures: part meal center, part garden, part communal kitchen. They include rooftop farms, mobile farmers' markets, donation hubs, cultivation labs, and kitchens for collective use.

Pg-12 Pg-13 VOL. I...No. 1

NEWS FOR TODAY

MATILDA TEROLLI

PRICES 4.00

SEXY APOCYLYPSE

EMBRACING THE END

THE DIGEST

THE END OF GAIA

MATILDA TEROLLI



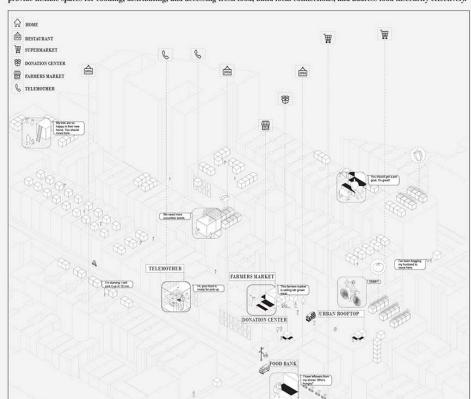
### **GUTSCAPES GAZETTE**



### **OUR WORLD IS FACING A MAJOR GLOBAL CRISIS**

### New Neighborhood Recipe: Revamping Old Buildings into a Fresh Community!

Mobile pop-ups, such as kitchens, food banks, cultivated meat labs, and communal kitchens, enhance community food sharing. They provide flexible spaces for cooking, distributing, and accessing fresh food, build local connections, and address food insecurity effectively



### Fighting Hunger: NYC Food Banks Rise to the Challenge!

Connie Verducci, Senior Vice President Bank of America

"Working together with Food Bank gives us the leverage to defeat hunger and put



### **Elevate Your Space**

Add a Mobile Pop-Up Kitchen to Your Apartment and Share Meals with Your Community!



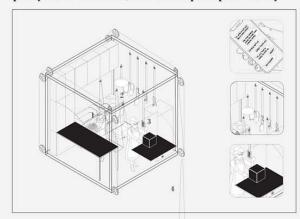
### What's the Beef?

Matilda Terolli Columbia University

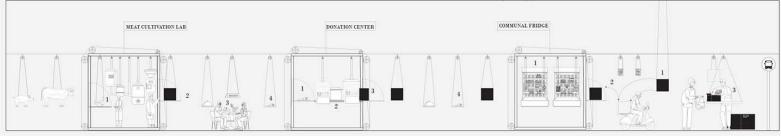
"Explore the Depths of Your Gutscapes!"

This gazette features news, recipes, crosswords, and a parts catalog. This issue explores food insecurity in NYC's low-income areas and introduces lab-grown meat as a solution to reducing food waste. Tackling these issues requires action from all sectors

Call our Telemother: Fresh meals delivered with a touch of home. Craving home-cooked meals? Call our "telemother," pick your favorite dish, and choose pickup or delivery!



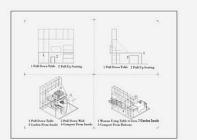
### Lift and Serve: Efficient Food Distribution with Our Mobile Pulley System!



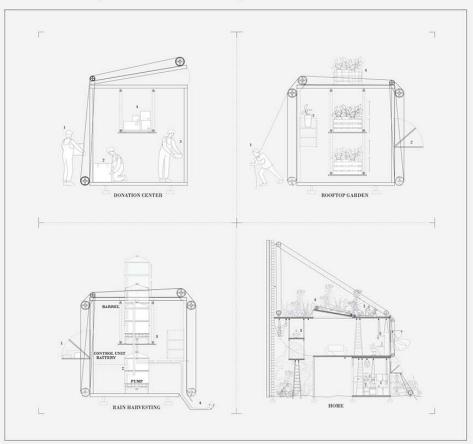
### Mobile Station Madness: Unpacking the Pulse of Portable Power in the Kitchen!

Columbia University

New York City is grappling with a significant environmental challenge, as residents generate an average of 200 pounds of organic waste per person each year. This highlights the city's need to improve sustainability and reduce landfill contributions. Local initiatives, including composting programs and educational campaigns, aim to encourage composting and minimize food waste. To further support these efforts, a new portable kitchen design has been introduced. This innovative solution facilitates easier composting at home, helping residents manage their organic waste more effectively and contribute to the city's environmental goals and waste management resilience.



### Rain Harvesting and Sustainable Living: Refresh Your Community with Eco-Friendly Solutions!



### The Great Garbage Showdown:

Compost vs. Trash - Who Wins the Green Tug of War?



### COOKING

What to make this week with lab grown meat. How about a lab grown meat burger?

- 4 lab-grown meat burger patties (e.g., from a

4 burger buns, preferably brioche or whole

4 slices of cheese (ontional

2. \*\*Cook the Burger Patties:\*\* - Heat a grill pan or non-stick skillet ove medium high heat and lightly oil the surface.

Place the top half of the bun over the filling

Serve the lab-grown meat burgers immediately while hot.
 Optionally, serve with your favorite side dishes like fries, coleslaw, or a salad.



### **MEAT-O-METER** Analyzer for breakfast,

lunch and dinner

DONATION CENTERS

MEAT CULTIVATION LABS

FARMING WORKSHOPS

COOKING WORKSHOP

MOBILE FARMERS' MARKETS

MEAT CULTIVATION RESTAURANT

TO EAT

TO STAY

Salt and pepper, to taste
 Olive oil or vegetable oil, for cookin

\*\*Prepare the Burger Patties:\*\*
 Season the lab-grown meat burger pat with salt and pepper on both sides.

medium-high heat and lightly oil the surface. -Cook the burger patties for about 3-4 minutes on each side, or until they reach your desired evel of doneness. If using cheese, place a slice on top of each patty during the last minute of cooking to allow it to melt.

3. \*\*Toast the Burger Buns:\*\*
- While the patties are cooking, lightly toast the burger buns on the grill or in a toaster until

4. "\*Assemble the Burgers:"
- Spread ketchup and mustard on the bottom half of each bun.
- Place a lettuce leaf on top of the sauce.
- Add a cooked lab-grown meat burger patty on top of the lettuce.

- Layer with tomato slices, onion slices, and

FROM PETRI TO PLATE Matilda Terolli

### **Urban Oasis: Rooftop Gardens and Mobile Stations Bring Fresh Food to Your Neighborhood**





THE GUTSCAPES GAZETTE, TUESDAY, JULY 30, 2040 THE GUTSCAPES GAZETTE, TUESDAY, JULY 30, 2040

SEXY APOCYLYPSE

### Crossword Puzzle: Site Unveiled as Urban Landmark



SEXY APOCYLYPSE

EMBRACING THE END

- 1 Impact of food insecurity 5 Synonym for inadequate food supply, often due to economic or environmenta
- factors
  7 The direct effect of insufficient food, often
- linked with food insecurity.

  Often a root cause of food insecurity individuals lack the resource btain sufficient food. 11 A prolonged period of abnormally low rainfall leading to water shortages and potential food insecurity.

- 2 Condition caused by poverty, leading to hunger and malnutrition.

THE END OF GAIA



THE DAILY CRUMB





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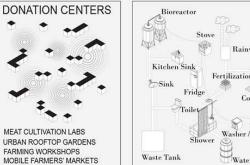
### EMBRACING THE END

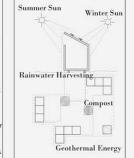
**MOBILE POP-UP** 

THE END OF GAIA

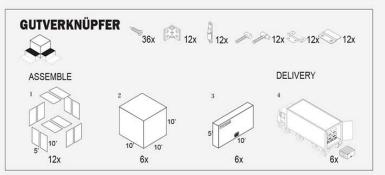
MATILDA TEROLLI

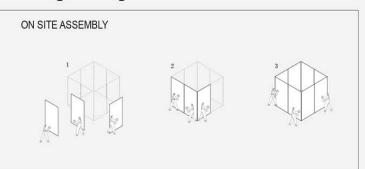
### Mobile Station Madness: Unpacking the Pulse of Portable Power!

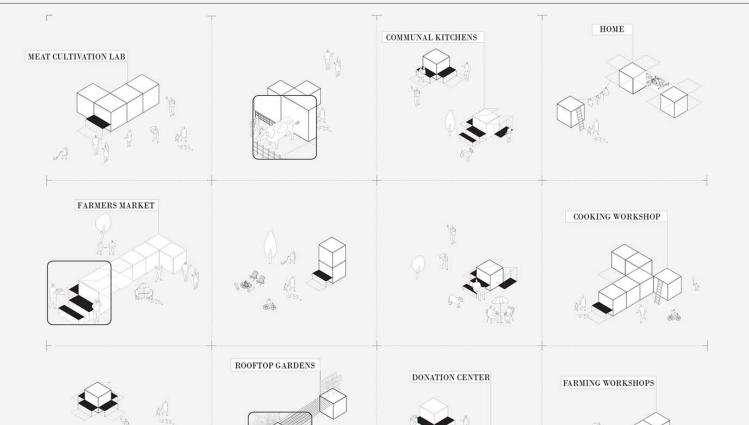


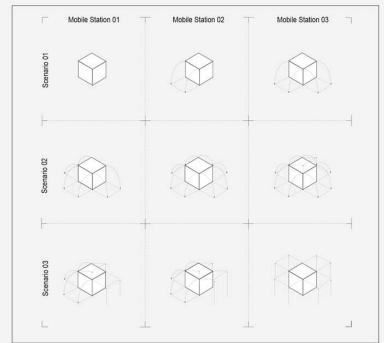


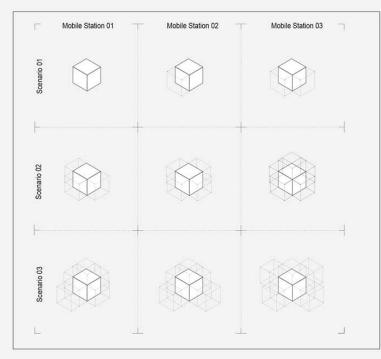
### Customizable Mobile Station Menu: Tailor Your Setup for Optimal Food Distribution!

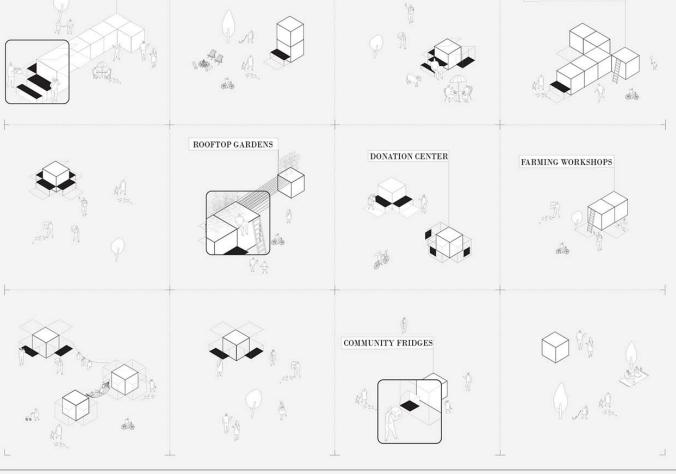


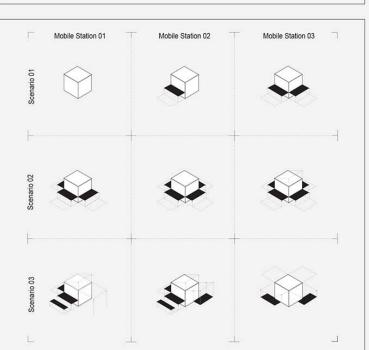


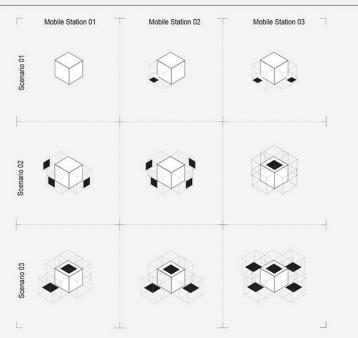














"Explore the Depths of Your Gutscapes!"





### Residual Futures.

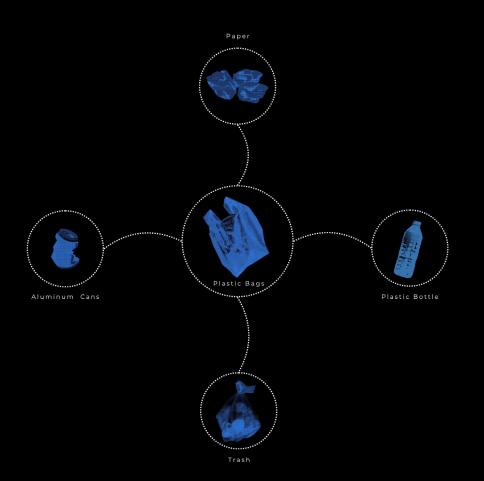
**Status:** School Project **Location:** Funafuti, Tuvalu

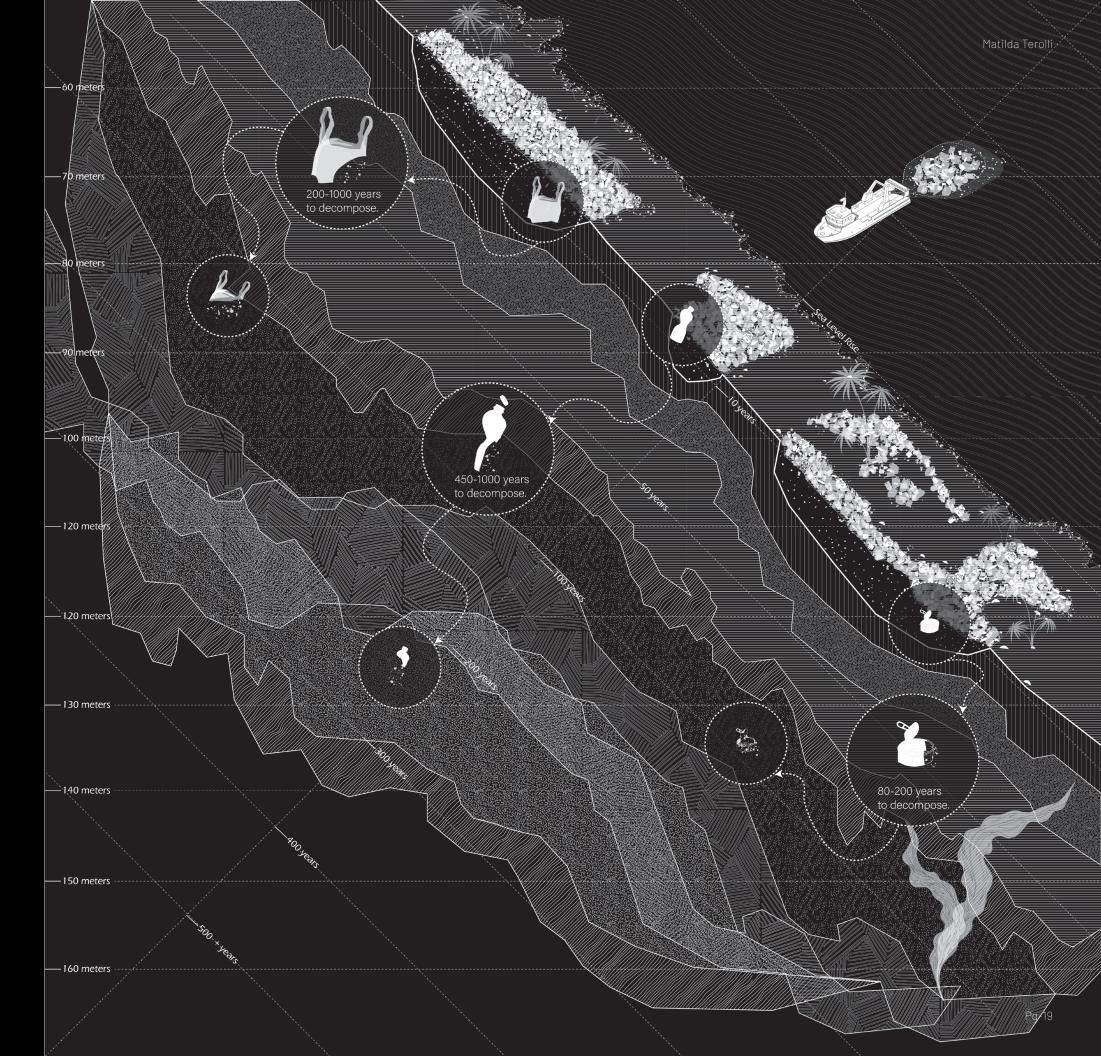
My Role: Concept Development, Research & Framing, Design & Visualization, Editorial & Writing

Additional Credits: Marina Otero Verzier, Dan Miller

In Tuvalu, waste becomes more than debris, it is a record of global dependency, climate vulnerability, and daily survival. The project develops a protocol to document waste as material and memory, working directly with local collection systems, landfills, and communities. Through mapping flows, filming processes, and collecting thermal and material data, waste is reframed as sediment and archive. Rather than an endpoint, it becomes a tool for design, resilience, and new spatial strategies in a disappearing landscape.



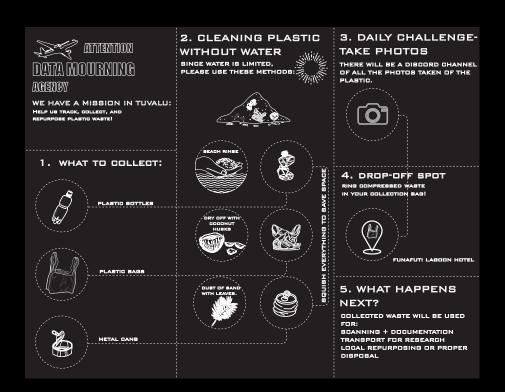


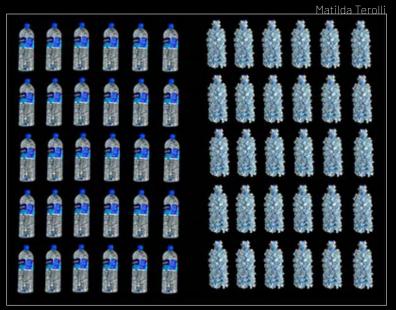


## taxonomy of waste.

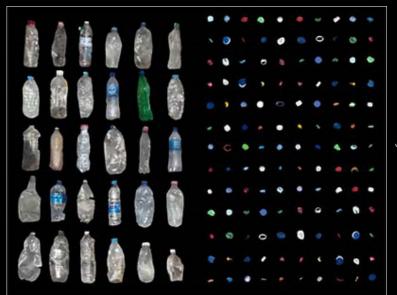
### How can collecting waste become an act of repair?

As a class, we developed the Data Mourning Agency in Tuvalu: a collective protocol for cleaning and documenting waste where water is scarce. Using sand, coconut husks, and leaves, we cleaned and photographed each fragment, then transported the collected material back to the U.S. for further study and reuse, ensuring nothing was left behind.





### REPETITION IDENTICAL BOTTLES AS EVIDENCE OF DAILY HABITS



### TRANSFORMATION

DEFORMED PLASTICS REVEALING CLIMATE AND TIME



### FRAGMENTATION

BROKEN PIECES SHOWING DISINTEGRATION AND DECAY

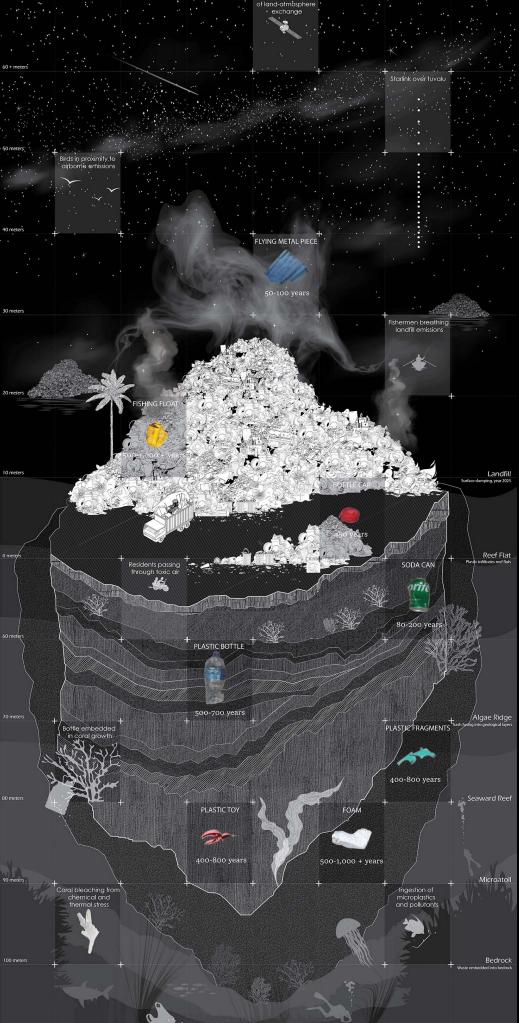
 ${\sf Pg\text{-}20}$ 

## What happens when what we throw away lasts longer than the land we live on?

Beneath the surface, waste settles into layers like geology, moving from land to reef to seabed, eventually becoming part of the earth itself. Each material decays on a different timeline: plastic bottles outlast coral reefs, aluminum cans outlive coastlines, and fragments sink deeper than memory.

This section reveals how discarded objects do not disappear, but slowly transform the landscape, the ocean, and the future of the island.

What we throw away quietly reshapes the future of the land-scape



Pg-22

## BOTTLE CAP SODA CAN PLASTIC BOTTLE + - <del>|</del> UNKNOWN OBJECT

## What traces of us survive when our materials outlive us?

Collected from the island's shores, these objects reveal an anatomy of endurance. Each piece - flattened, faded, or fractured, retains the stubborn permanence of its material.

Together they form an accidental archive, mapping the collision between human habit and oceanic time.

What was once useful becomes geological; what was once trivial becomes testimony. Through cataloging and imaging, the fragments expose a quiet truth: disappearance is a myth, and waste is a record of who we are and what we leave behind.

Portfolio Matilda Terolli

### Platic Shores

**Plastic Shores** documents Tuvalu's waste infrastructure through a series of site visits with the local Waste Department.

From neighborhood collection routes to informal dumping zones and finally the island's main landfill, the film traces how materials move, accumulate, and transform.

What begins as daily routine unfolds as an ecological narrative, revealing how waste shapes both land and memory in one of the world's most fragile environments.

# PLASTIC SHORES TUVALUS FIGHT AGAINST WASTE

### What does heat reveal that sight cannot?

Thermal imagery was used to study how materials across Tuvalu absorb, retain, and release heat.

The scans revealed invisible patterns: aluminum holds warmth long after exposure, plastics cool slowly in shade, and human and material temperatures merge under intense sun.

Through heat, the landscape's material behavior becomes visible-showing how



Example of a short film/documentary I created in Tuvalu, 2025. Field documentation from Tuvalu: Thermal Imagery Scans, 2024

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