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AASIYA MAAVIAH | MS.AUD PORTFOLIO

AASIYA MAAVIAH

ARCHITECT + URBAN DESIGNER

VISA: FI Status with OPT and Stem Extension

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New York, NY, 10027

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WORK EXPERIENCE

Al-Bawani Construction

Riyadh, Saudi Arabia

Intern Architect

[July 2018 - May 2019]

Assisted in the design and construction of three significant administrative buildings for the Riyadh Government and the design of numerous institutional and residential design-build construction projects. Led the team for the design of an ancillary building for a housing project expansion. Tasks included conceptual drawings, construction drawings, and preparing client presentations.

Sri Venkateshwara College of Architecture

Hyderabad, India

Teaching Assistant for Urban Design Studio VI

[Sept 2016 - July 2017]

Awarded a Teaching Assistantship with Prof. Nagraj Naidu for the Urban Design Studio. Assisted with the preparation of course material, studio schedules, and presentations. Additionally performed several office related tasks for course projects.

VOLUNTEER WORK

Columbia University Task Force

Columbia University, New York, NY

Member of Graduate Group for Inclusion and Belonging

[Fall 2019 - Spring 2020]

M.A.D - Make a difference foundation

Hyderabad, India

Teaching Assistant for 10th Grade Science

[May 2017 - August 2017]

Ashray Akruiti for the hearing impaired

Riyadh, Saudi Arabia

Teaching Assistant for 6th Grade English

[June 2014 - August 2014]

AWARDS

Dean's List Recipient

Jawaharlal Nehru Architecture and Fine Arts University,
Sri Venkateshwara College of Architecture, Hyderabad, India

[August 2019]

Best Playwright Award

College October Festival for Architecture,
Sri Venkateshwara College of Architecture, Hyderabad, India

[December 2017]

EDUCATION

Columbia University in the City of New York

NY, New York

Master of Science in Architecture and Urban Design

[Summer 2019 - Spring 2020]

JNAFAU - Sri Venkateshwara College of Architecture

Hyderabad, India

Bachelors in Architecture, Head of Student Union, Member of
Dean's Student Advisory Committee, Class Representative

[September 2014 - May 2019]

CERTIFICATIONS

Council of Architecture Registration Certification

Council of Architecture, Delhi, India

License Number: CA/2020/120753

[December 2019]

Revit Certificate of Completion

Engineers CADD Centre (P) Ltd, Hyderabad, India

License Number: 99653

[May 2018]

3D Studio Max Certificate of Completion

Engineers CADD Centre (P) Ltd, Hyderabad, India

License Number: 99653

[February 2018]

AutoCAD (2D, 3D and Civil Engineering)

Autodesk Authorised Training Centre, Hyderabad, India

License Number: 170AUT00A7

[January 2017]

SKILLS

Computer Aided Design + BIM

AutoCad (2D, 3D and Civil), Revit, Rhino, Grasshopper, Maya,
3DS Max, Sketchup, V-Ray Render, Keyshot

Adobe

Photoshop, Illustrator, InDesign, After Effects, Premier,
Lightroom

Microsoft Office

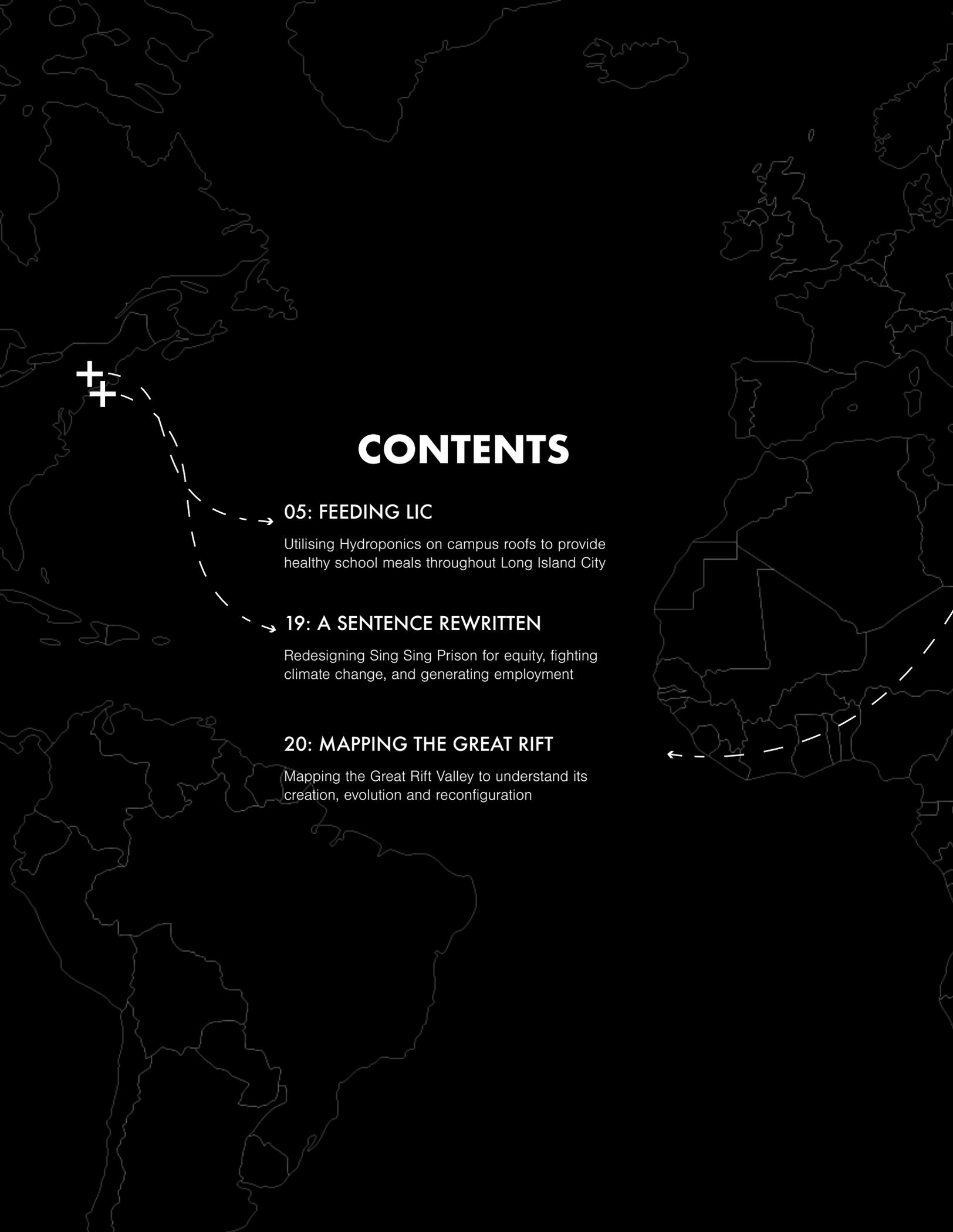
Word, Powerpoint, Excel

Other Tech

3D Printing, Preparing Files for Laser Cut and CNC

Languages

English [Fluent], Arabic [Fluent], Hindi [Native], Telugu [Native]



CONTENTS

05: FEEDING LIC

Utilising Hydroponics on campus roofs to provide healthy school meals throughout Long Island City

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Redesigning Sing Sing Prison for equity, fighting climate change, and generating employment

20: MAPPING THE GREAT RIFT

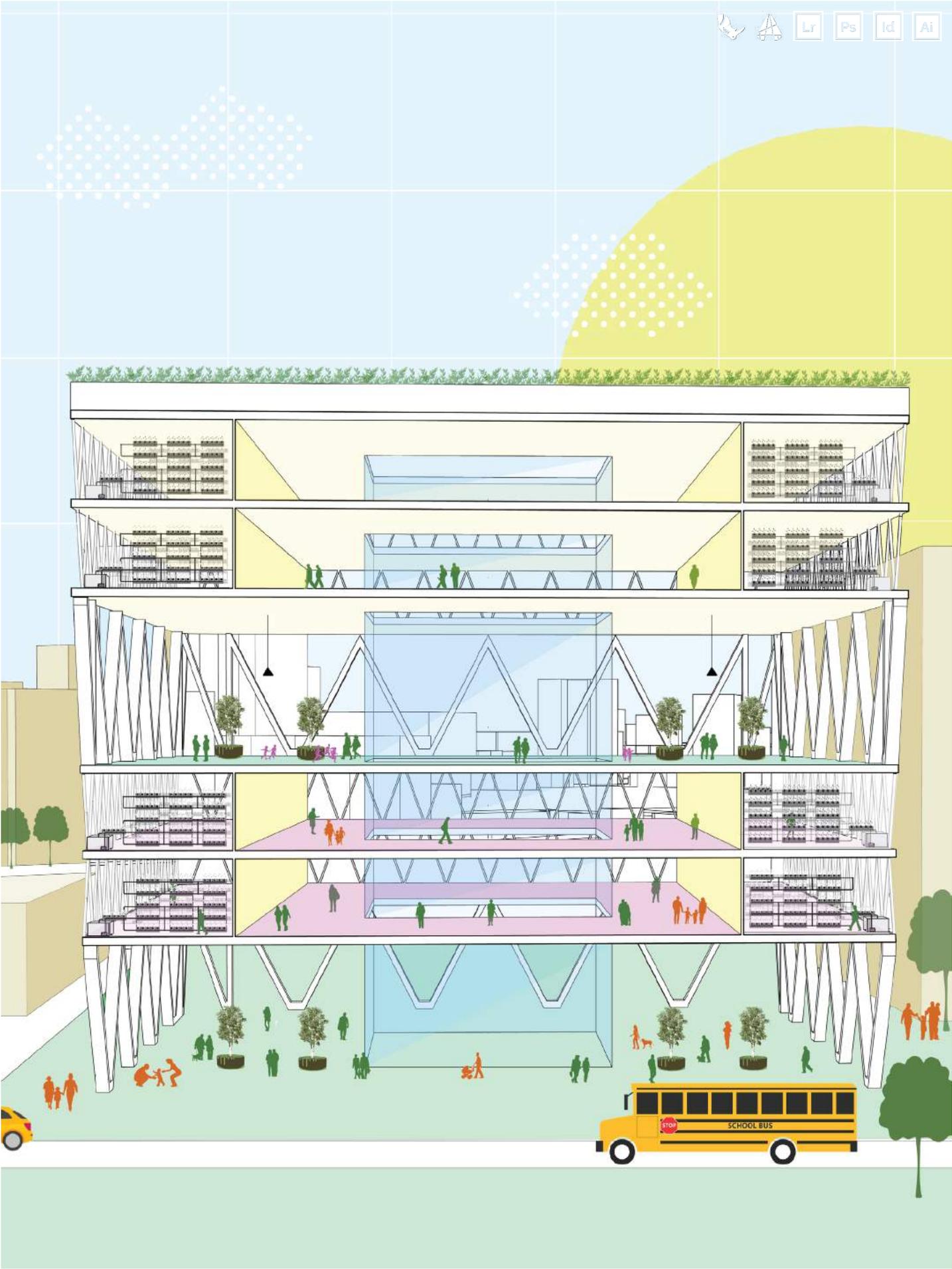
Mapping the Great Rift Valley to understand its creation, evolution and reconfiguration



FOOD ACCESSIBILITY

FEEDING LIC

MS AUD Portfolio



FEEDING LIC

Long Island City, Queens, New York

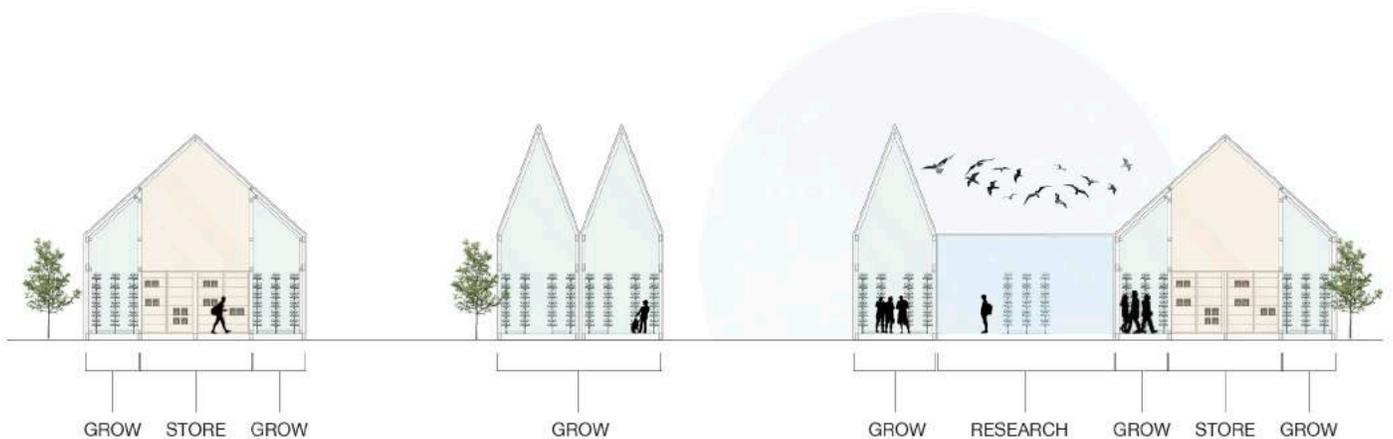
Summer 2019

Academic Project | Urban Design Studio I

Project Partners | Zixuan Zhang | Eleni Stefania Kalapoda

CONTEXT | Children of long island city rely heavily on school lunch meals to rescue themselves from hunger. However, these meals are often inadequate, of poor quality, and exported from outside the city. This pattern of neglect is observable in many growing urban societies.

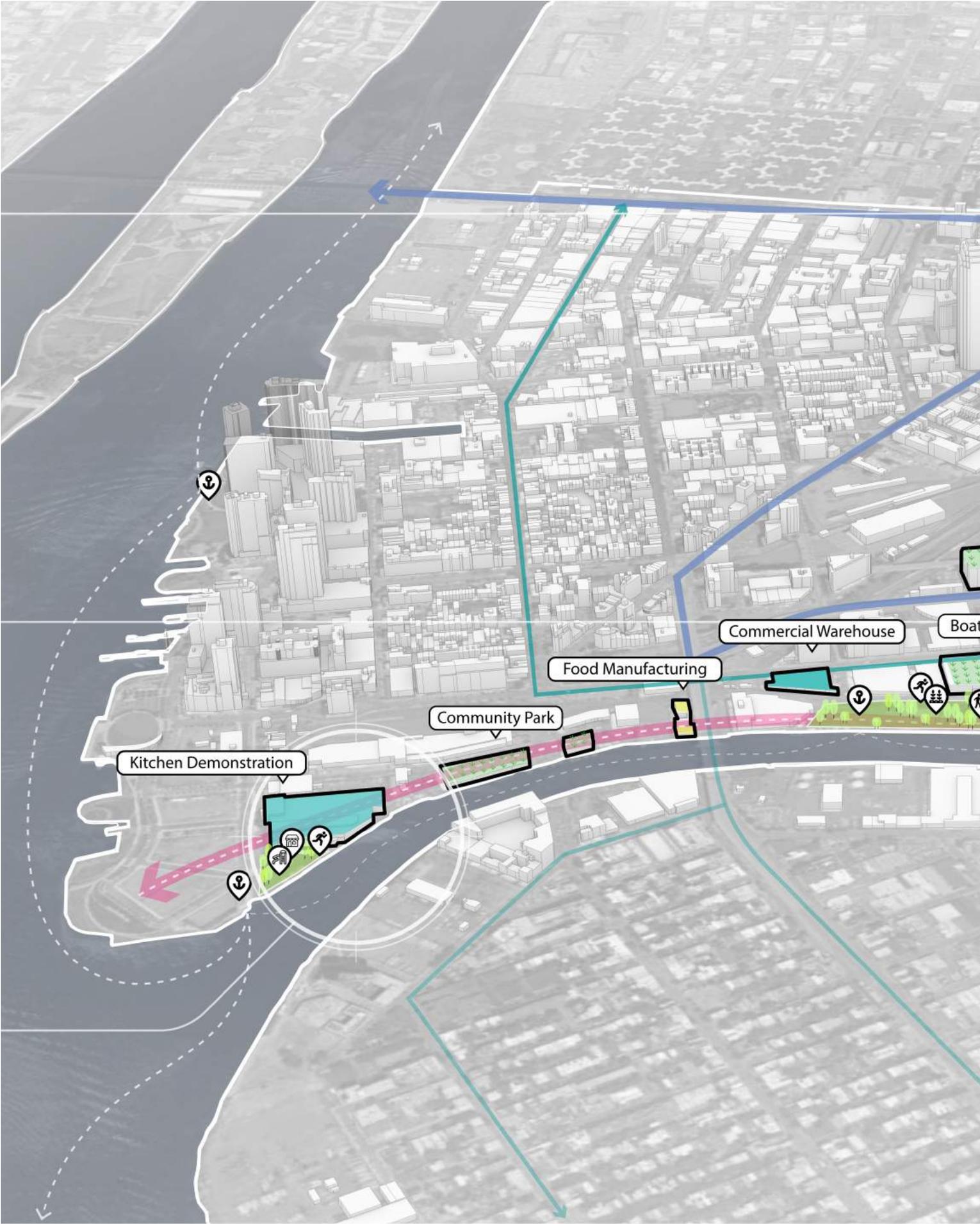
PROJECT | The proposal is an agricultural experimentation centre with three categories of replicable modules in Long Island City's industrial business zone. Firstly, the program offers students of agriculture an opportunity to grow and package food at a massive scale using advanced hydroponic techniques. Secondly, this concept is supported by infrastructural modules for distribution to create a system around the life cycle of food. The third category of modules proposed aim to educate through mentorship programs and start a dialogue around the way we think about food and pass these lessons down to our children.

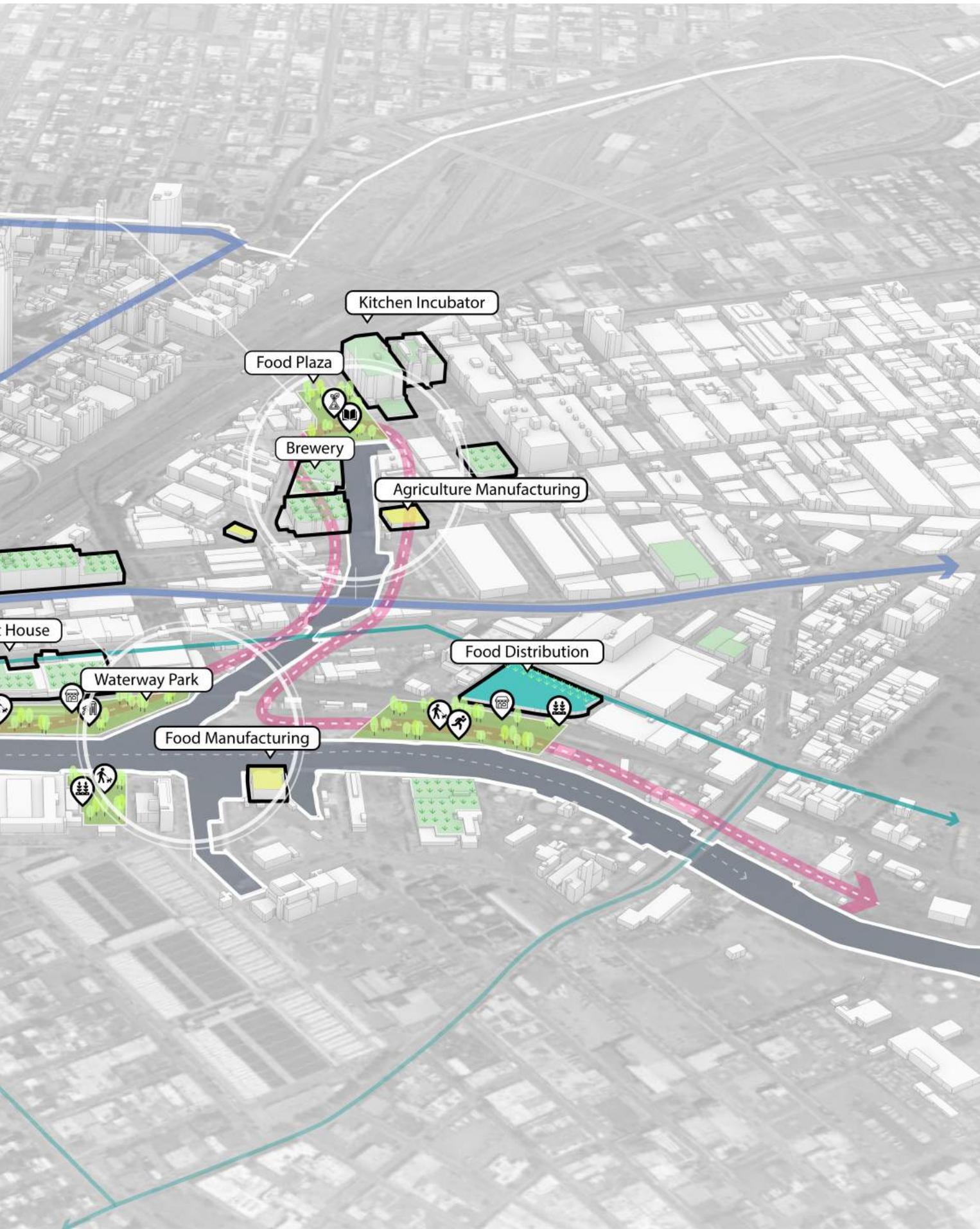


PROPOSAL LAYOUT

FEEDING LIC

MS AUD Portfolio





PROPOSAL LAYOUT



FEEDING LIC



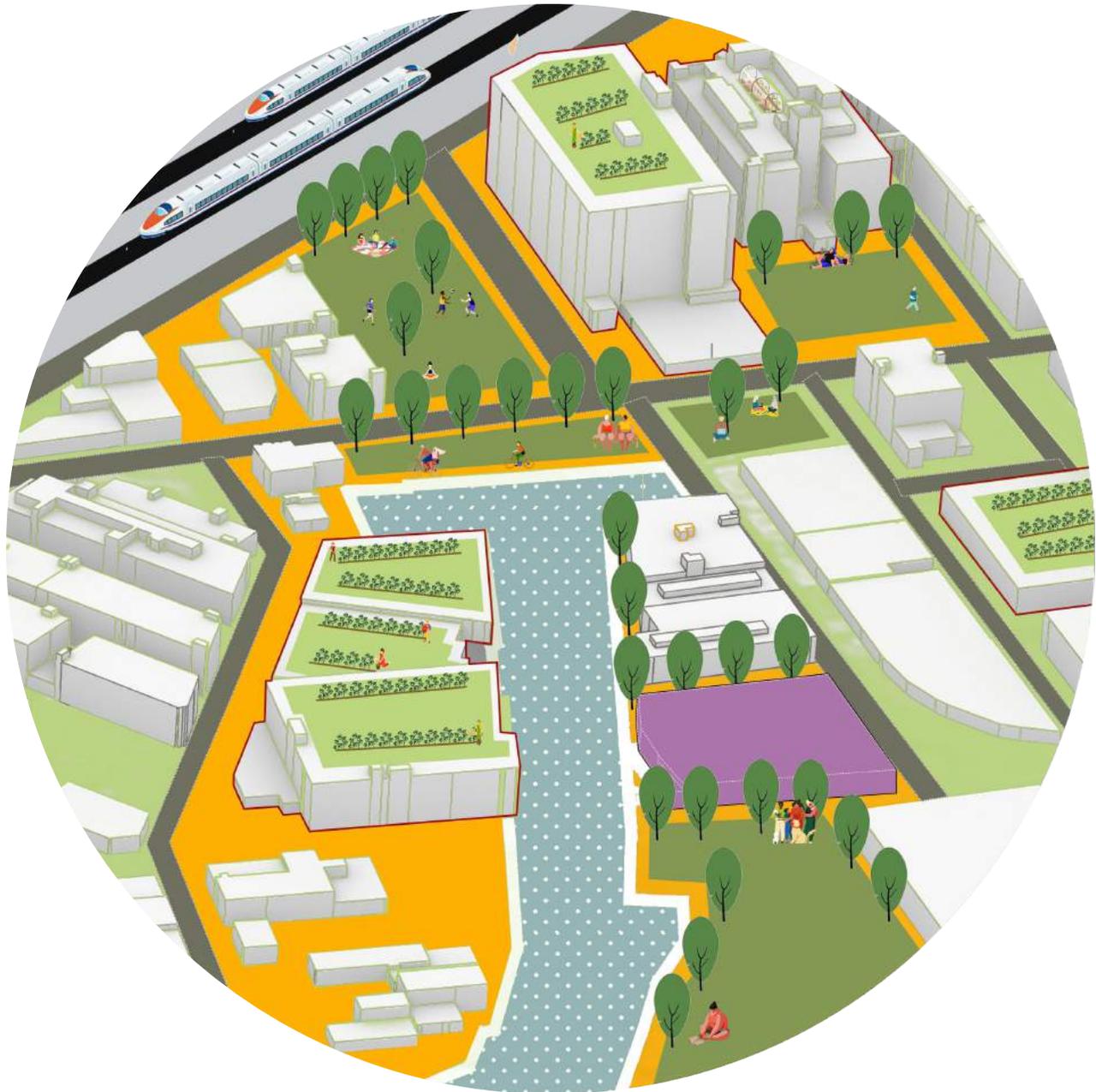
MS AUD Portfolio

top-left

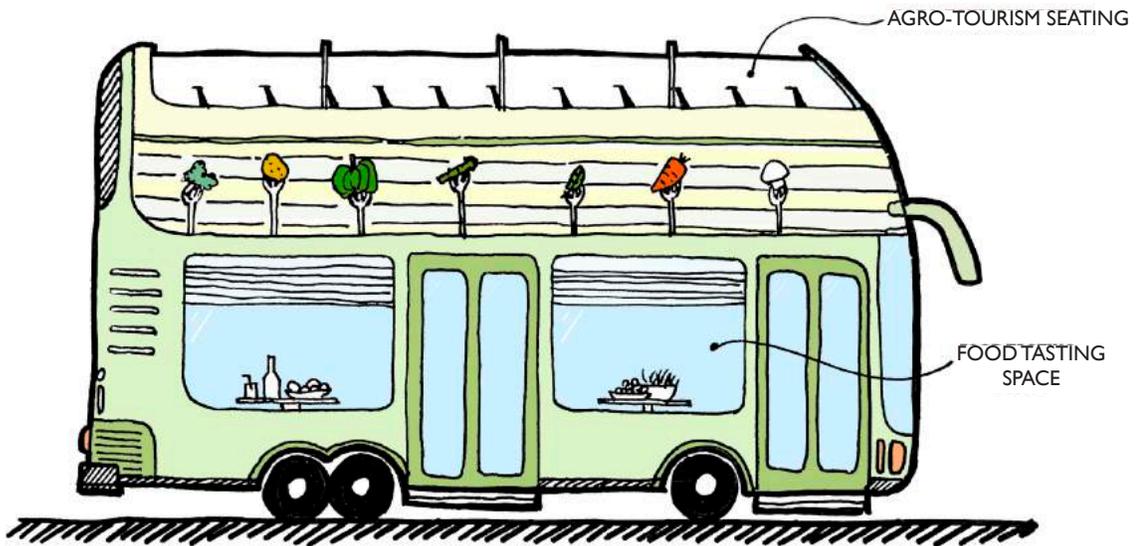
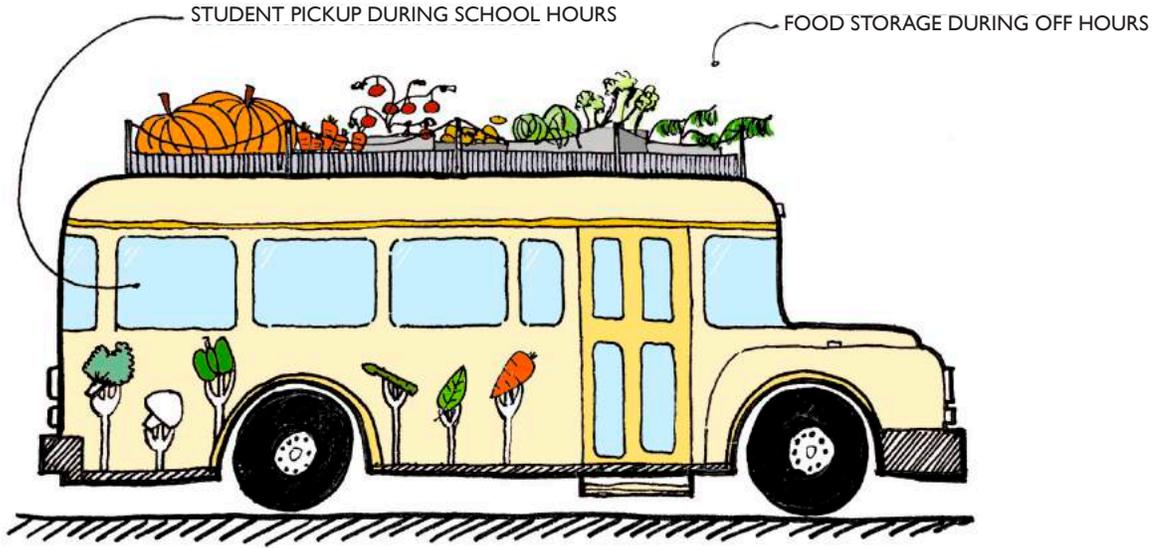
utilising the cargo ships in the canal to move food material between industrial sites

bottom-left

utilising vacant parking lots for packaging produce

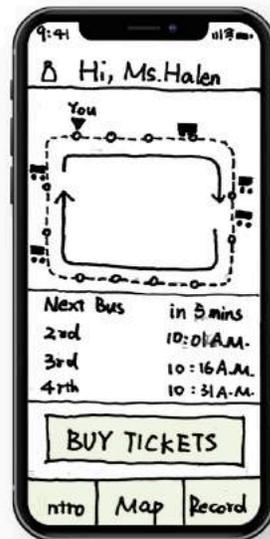
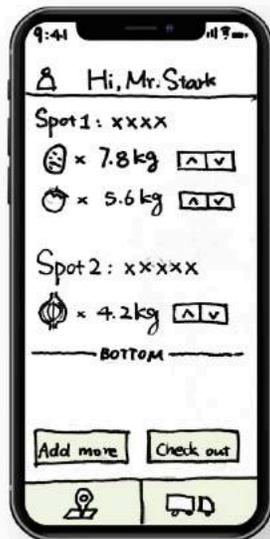
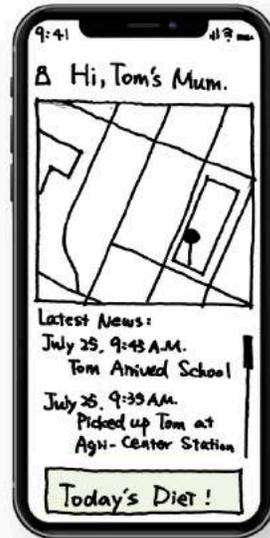
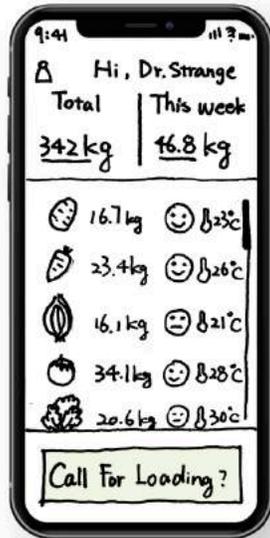


right creating more circulation space for agro-tourism



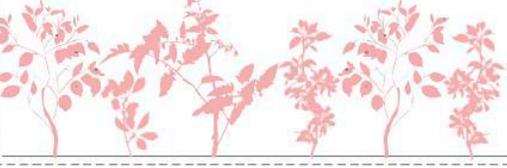
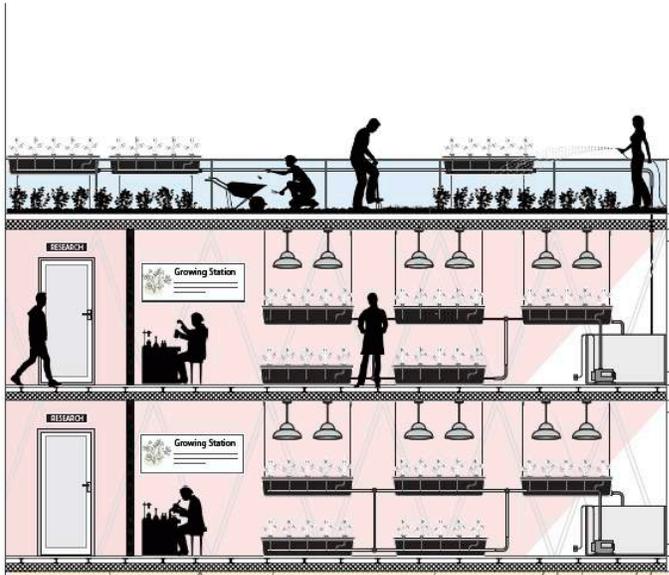
top-left adding custom modules to school buses to deliver produce during off hours

bottom-left reconfiguring tour buses to promote agro-tourism

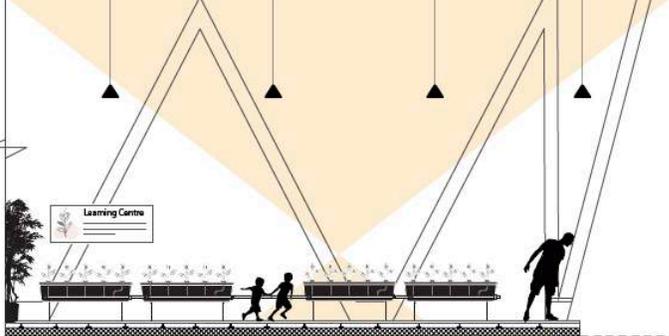


right app design for users to customise and track produce

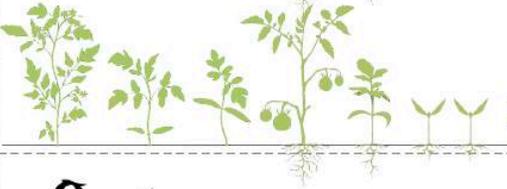
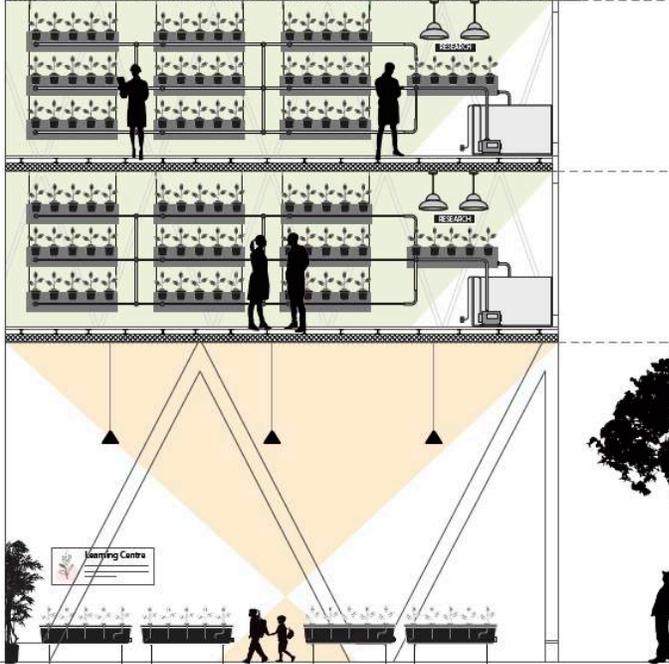
FOOD PRODUCTION

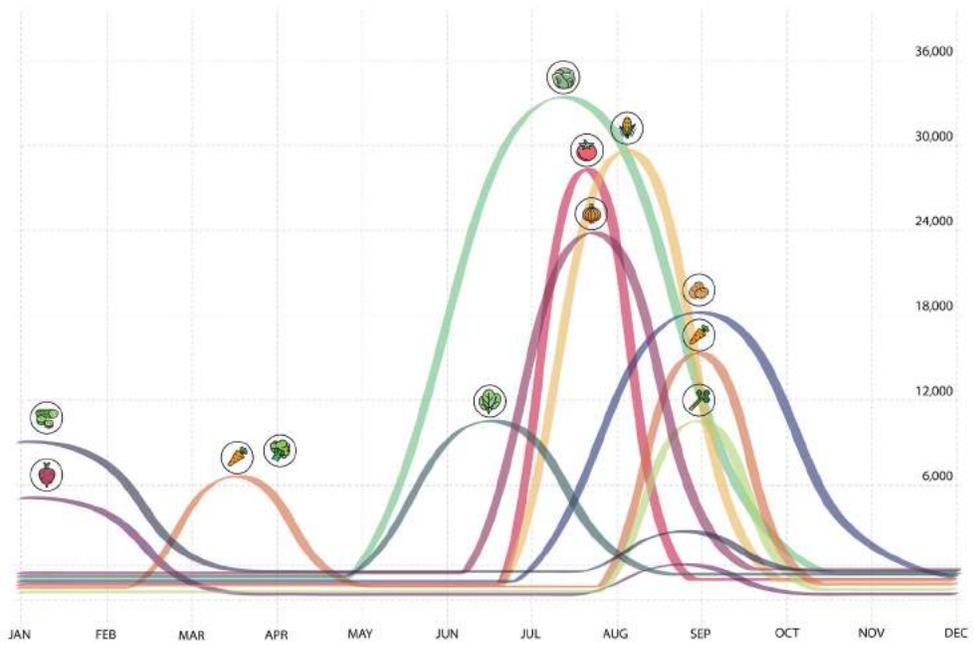
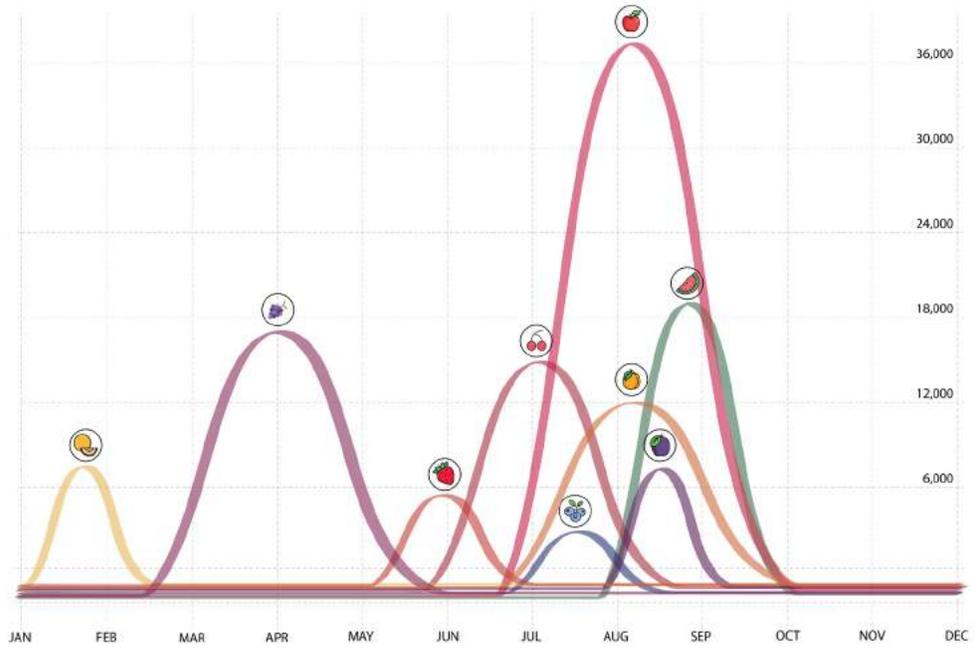
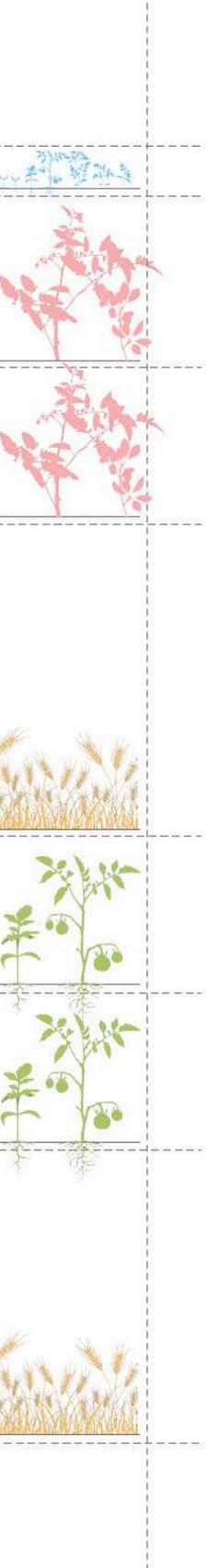


FEEDING LIC



MS AUD Portfolio





top-right

growing fruits with hydroponics

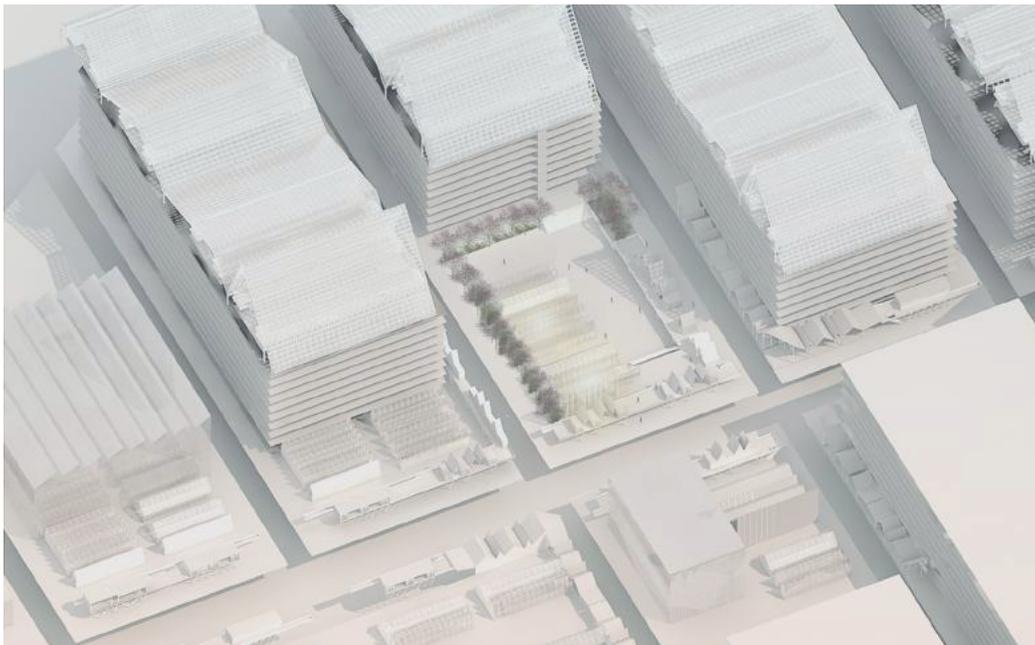
bottom-right

growing vegetables with hydroponics





STREET VIEW



FEEDING LIC

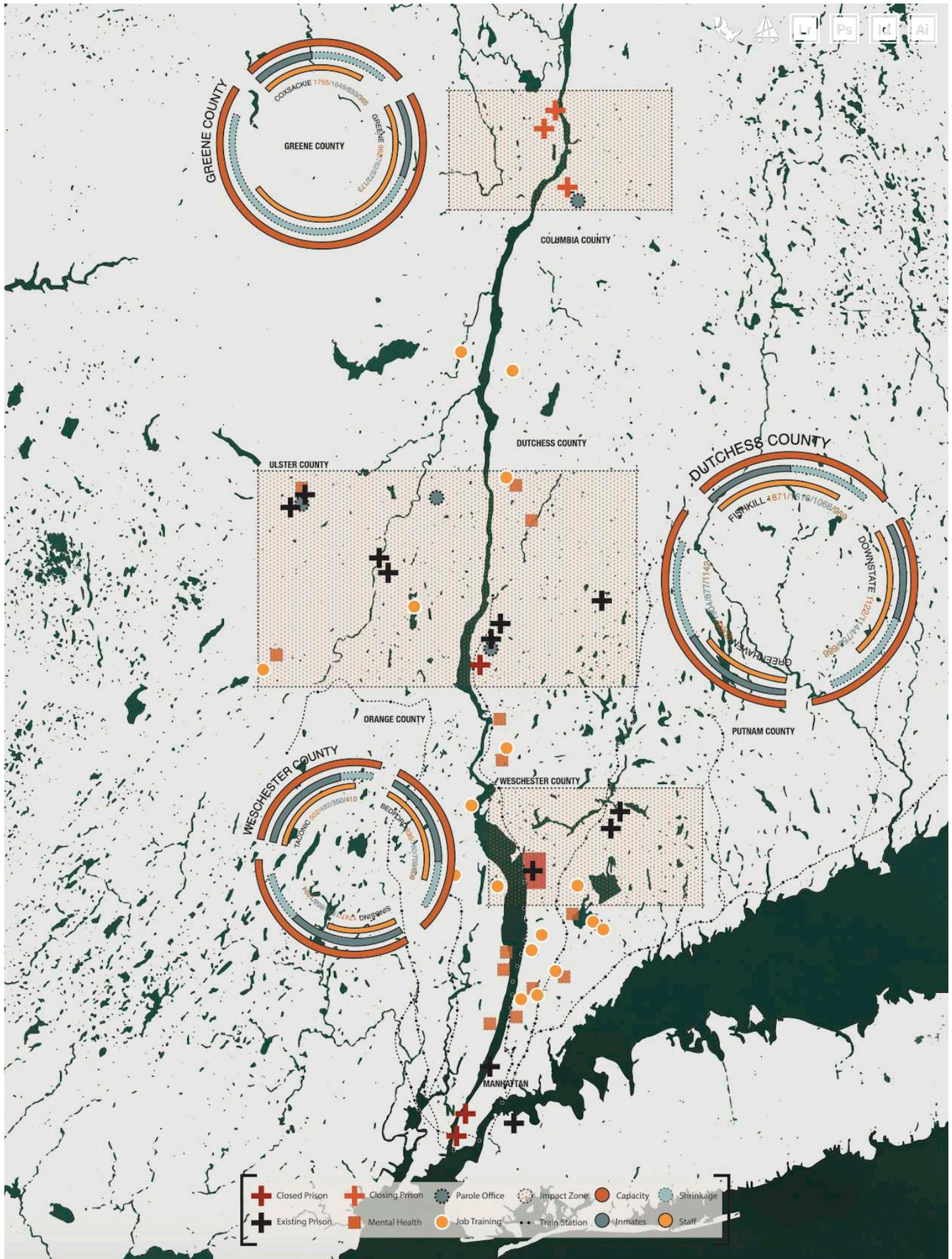
MS AUD Portfolio

top-right green houses in vacant lots

bottom-right rooftop hydroponic gardens







A SENTENCE REWRITTEN

Long Island City, Queens, New York

Fall 2019

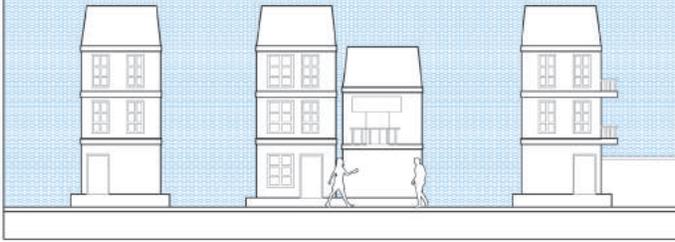
Academic Project | Urban Design Studio II

Project Partners | Alvi Rahman Khan | Yuan Qin | Zhen Hua

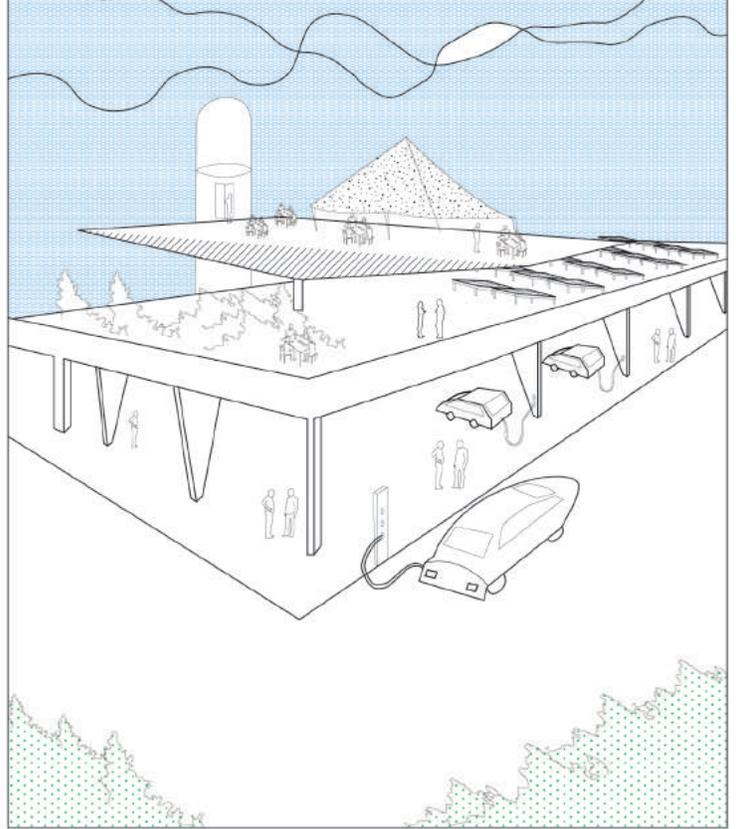
CONTEXT | The eradication of carbon emissions, the propagation of justice and the provision of jobs are the three primary goals of The Green New Deal. In the Hudson Valley, no system ranks lower in all three aspects than the Criminal Justice System. Prisons are the most inhumane spaces for those incarcerated and their families and the second most carbon-intensive public buildings after hospitals.

PROJECT | The redesign of Sing Sing Correctional Facility addresses three primary goals. Firstly, the creation of a more humane environment for the inmates and their families through family rehabilitation, educational programs, and more access to parole officers and social justice workers. By reopening the water-front to the public, there are also programs to connect the incarcerated population with the surrounding community. Secondly, it fights climate change by shifting to clean energy and recycling waste. Thirdly, it generates employment by creating green-job for both inmates and correctional officers.

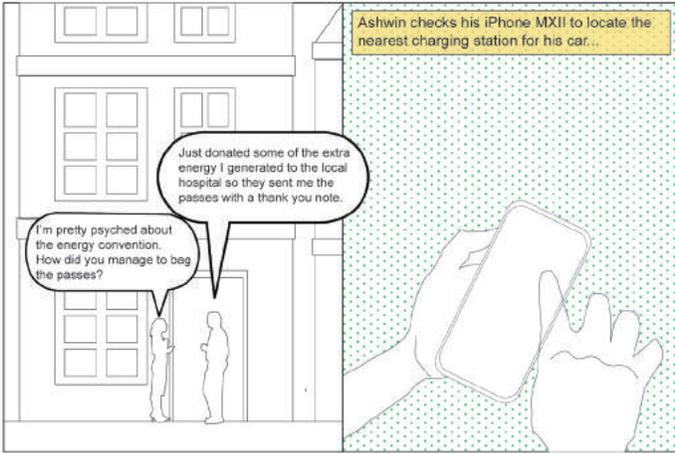
It's a nice sunny day in Hudson Valley. Ashwin and Moneerah meet outside his house to head for an energy convention...



They arrive at a charging station which doubles as a public space for community meetings. The station used to be a gas station in the year 2019 when carbon emitting fuel sources were the norm...



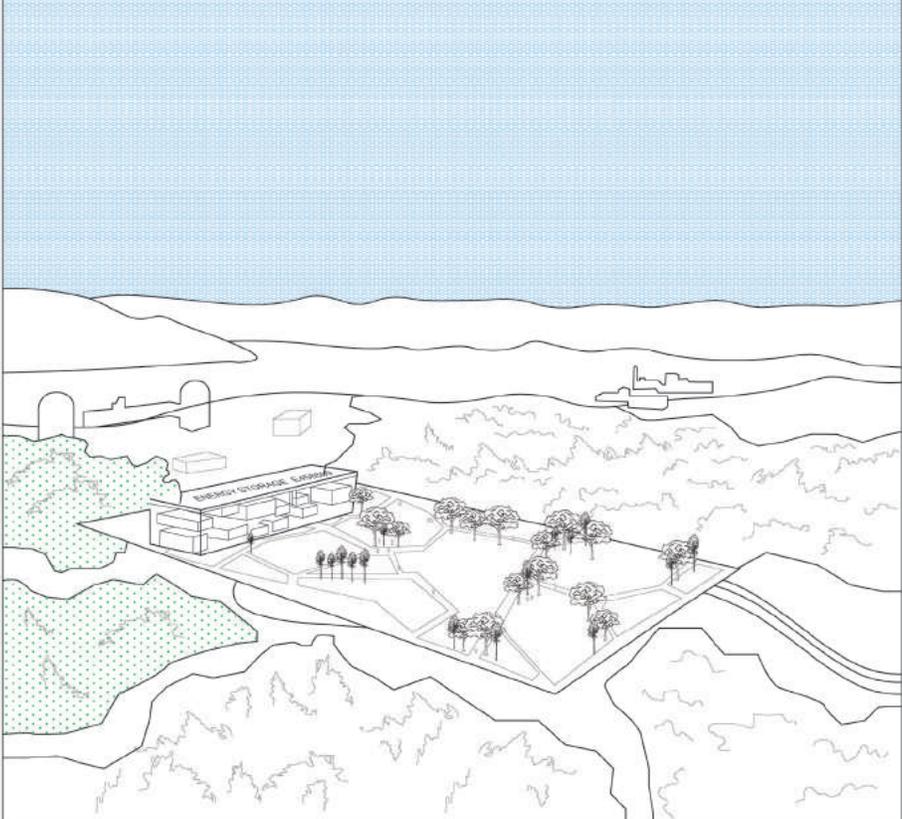
Ashwin checks his iPhone MXII to locate the nearest charging station for his car...



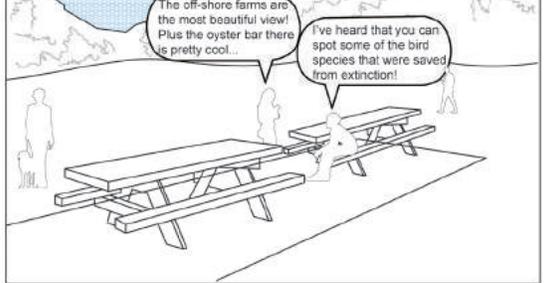
I'm pretty psyched about the energy convention. How did you manage to beg the passes?

Just donated some of the extra energy I generated to the local hospital so they sent me the passes with a thank you note.

One of the outcomes of the R&D investment was the development of clean batteries that are made from recycled plastic that existed in abundance in the early 21st century. The energy convention recycled much of the old oil refinery infrastructure to generate a large scale battery unit.



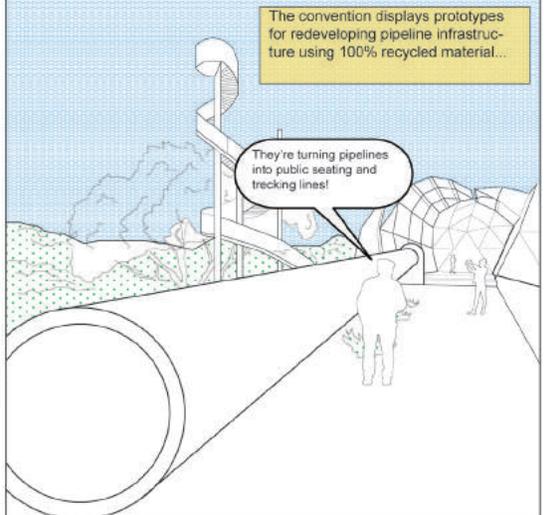
At the convention, they run into Kunal and Aasiya who tell them all about who tell them about a trek they're going on that ends at the offshore wind farms...



The off-shore farms are the most beautiful view! Plus the oyster bar there is pretty cool...

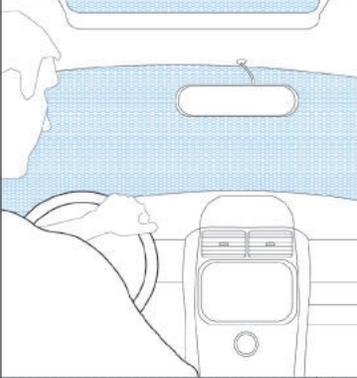
I've heard that you can spot some of the bird species that were saved from extinction!

The convention displays prototypes for redeveloping pipeline infrastructure using 100% recycled material...

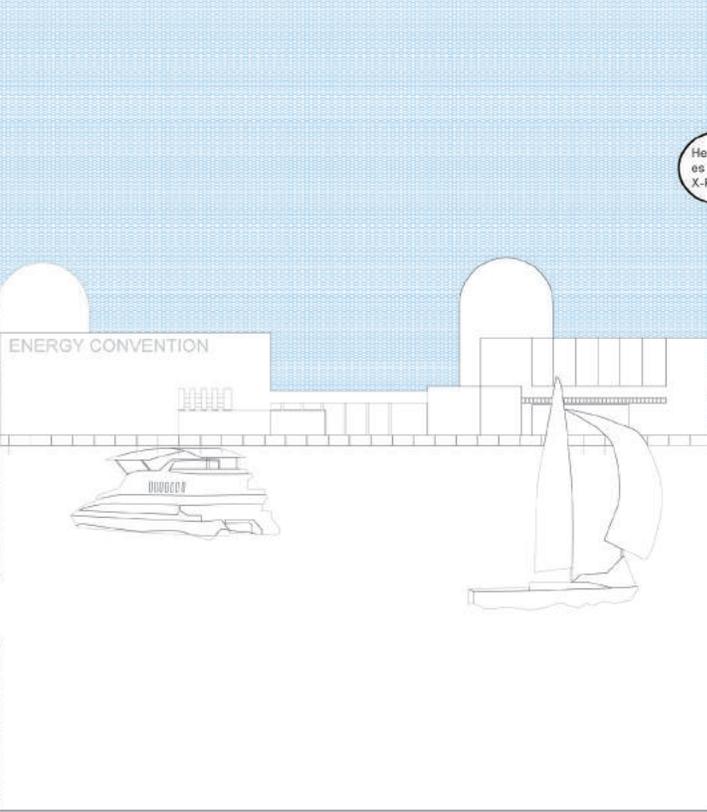


They're turning pipelines into public seating and trekking lines!

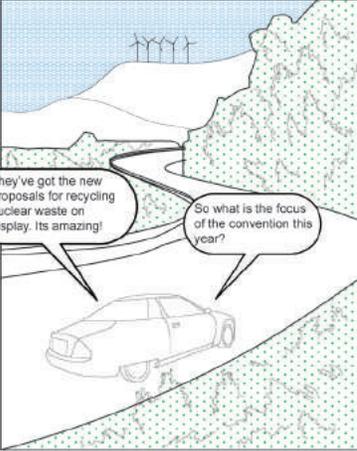
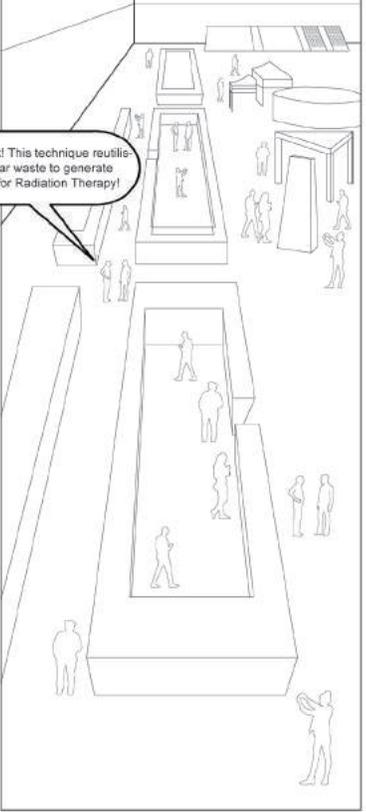
Ashwin navigates to the convention using his GPS that shows him the most energy efficient route to take...



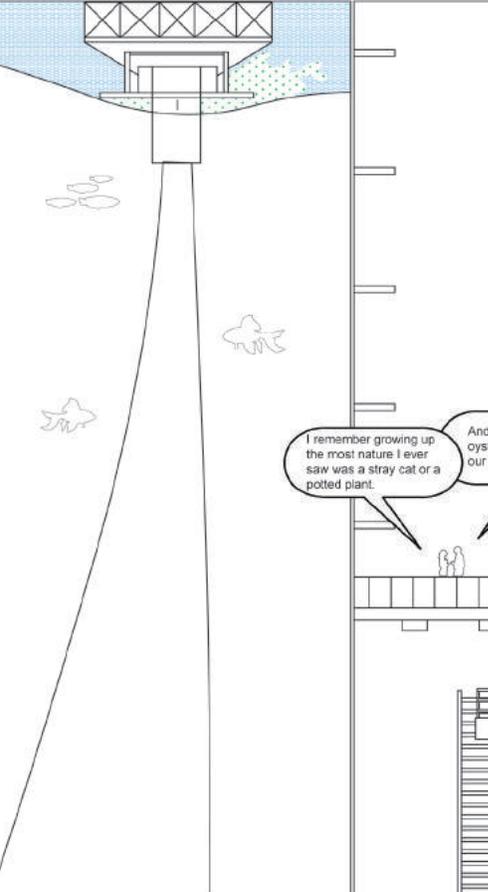
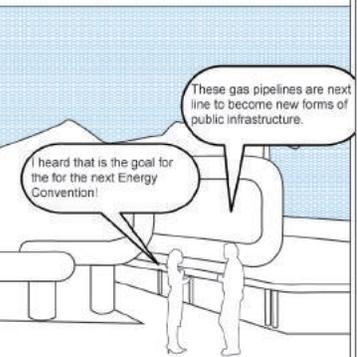
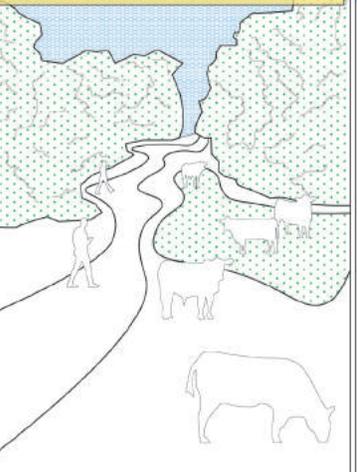
The convention is being held inside an old oil refinery plant. Such plants used to be the largest source of carbon emissions before the Green New Deal was passed in 2019. Instead of spending 4 Trillion dollars on revamping all the deteriorating Power Generating infrastructure, the buildings were redeveloped to a variety of public facilities...



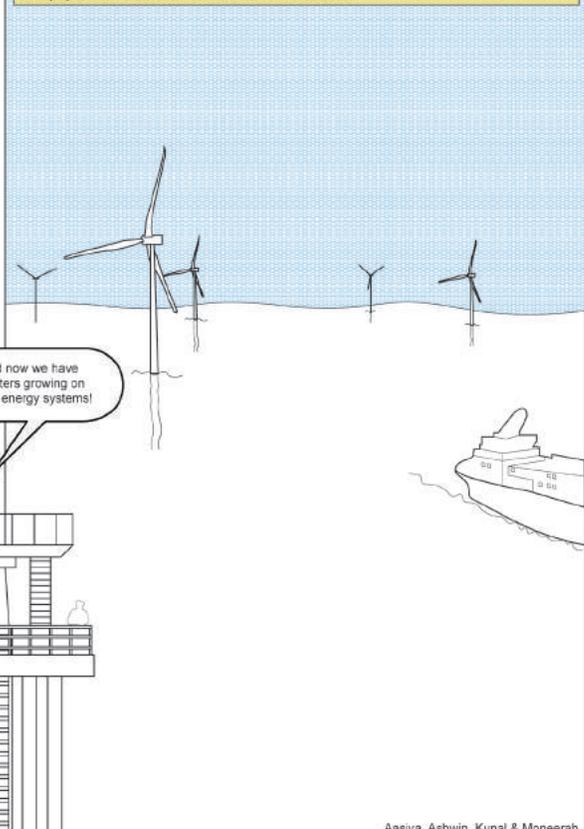
The displays include a variety of techniques of refining nuclear waste. This has been made possible due to the large number of grants allocated for Research and Development...

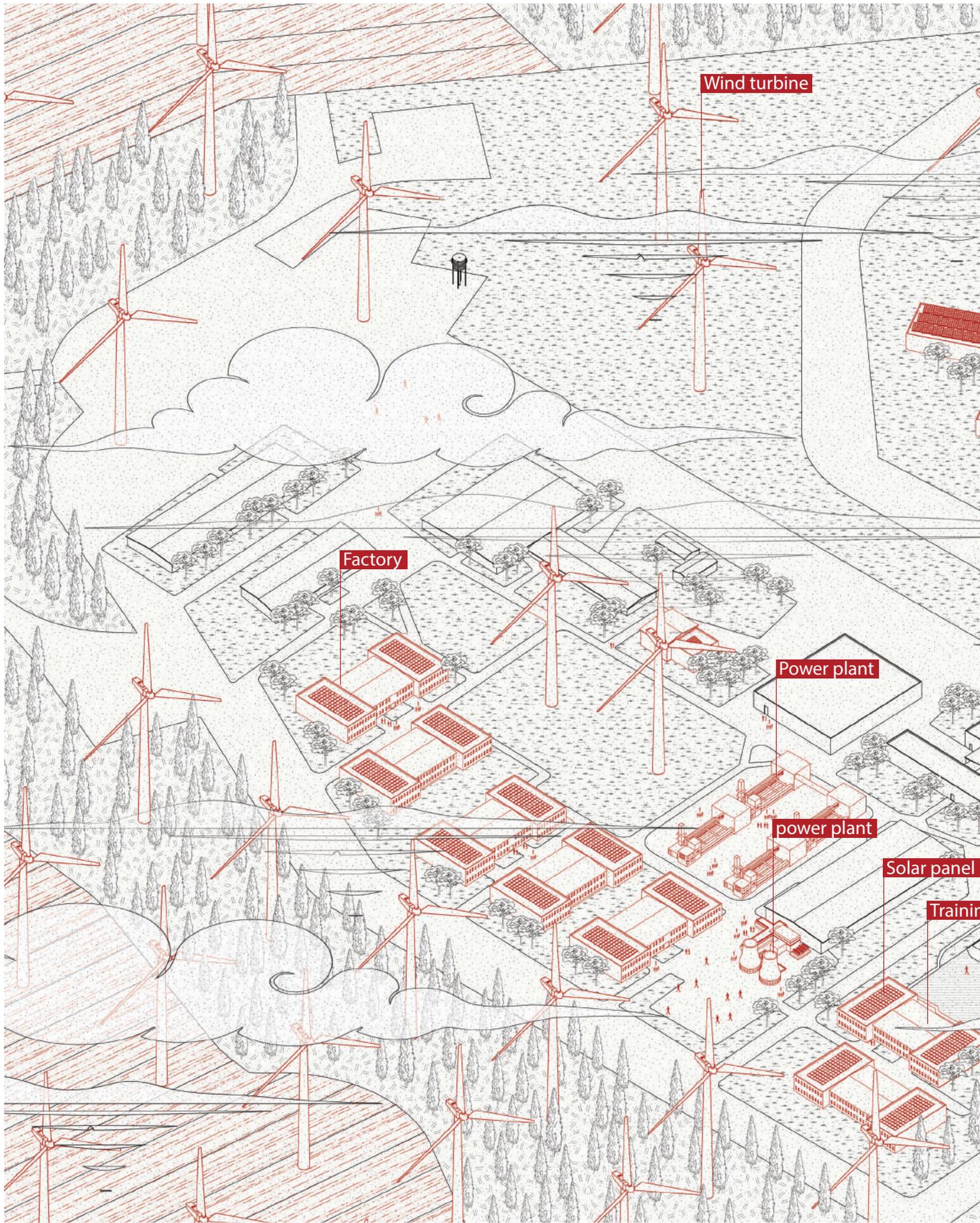


Moneerah and Ashwin join them on the trek and see the large expanses of forest and agricultural lands that have been conserved...



The trek ends with them reaching the Offshore wind farms where a thriving oyster population are threatened no longer by climate change, but only by the abundant bird population that was rescued from extinction...





Wind turbine

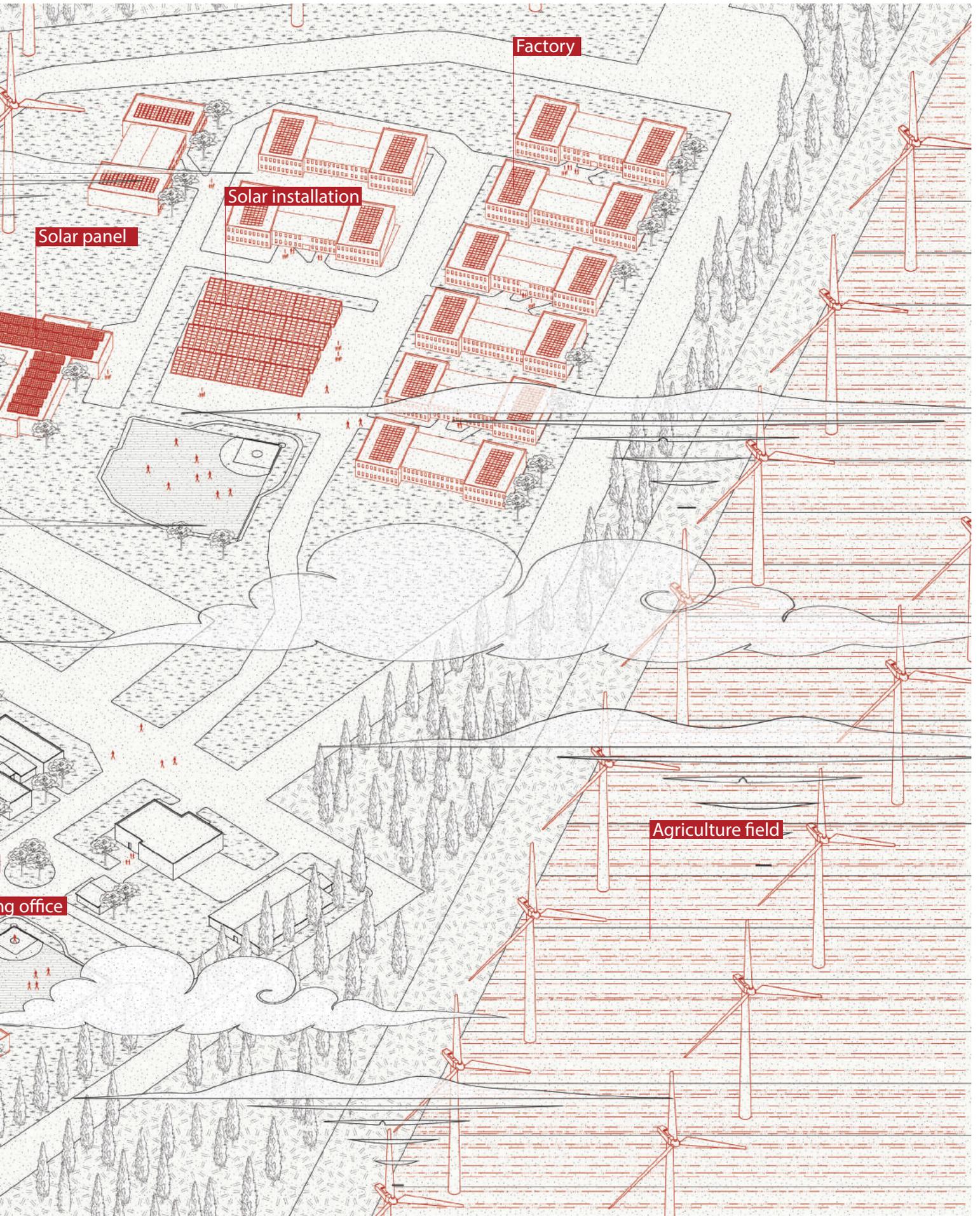
Factory

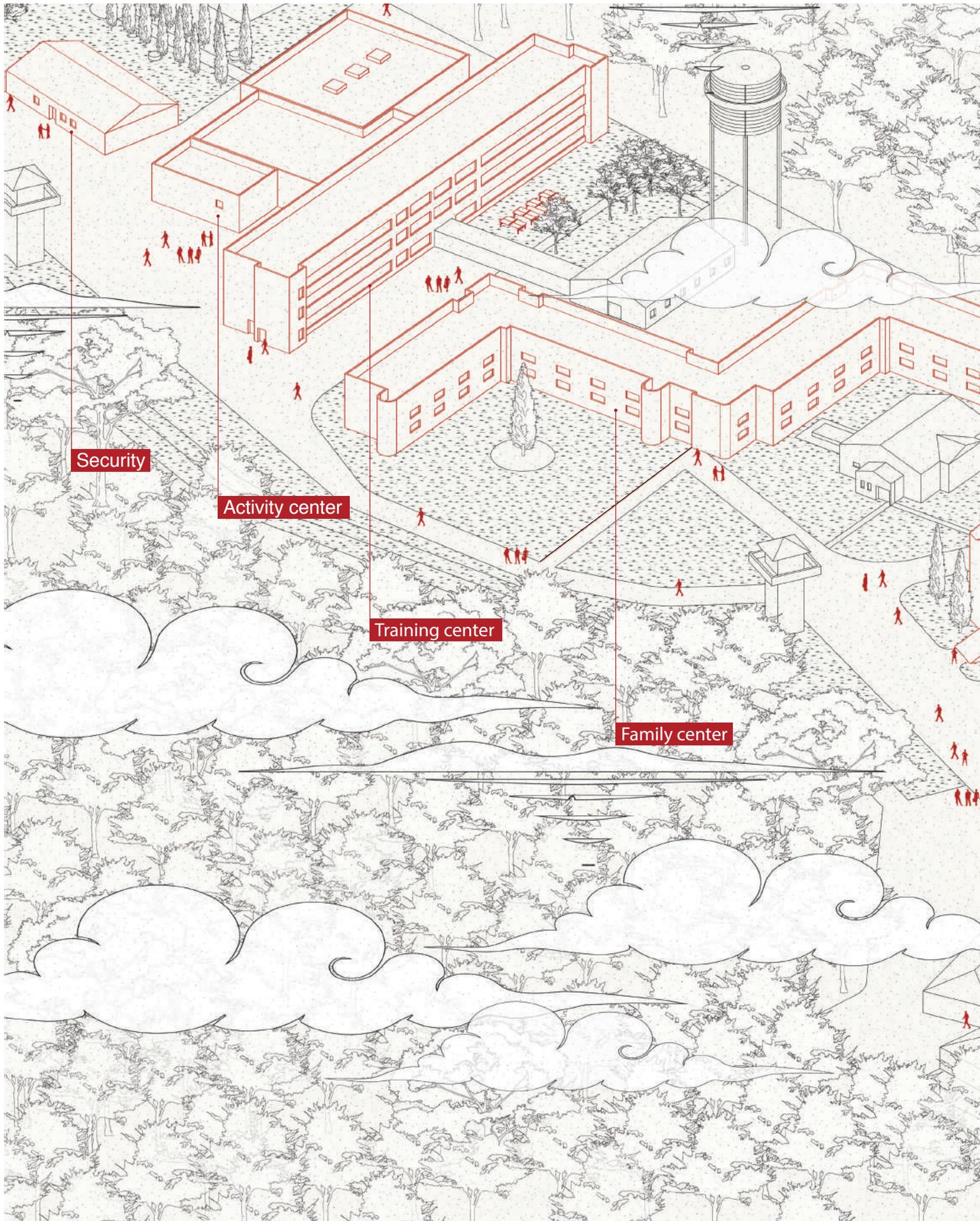
Power plant

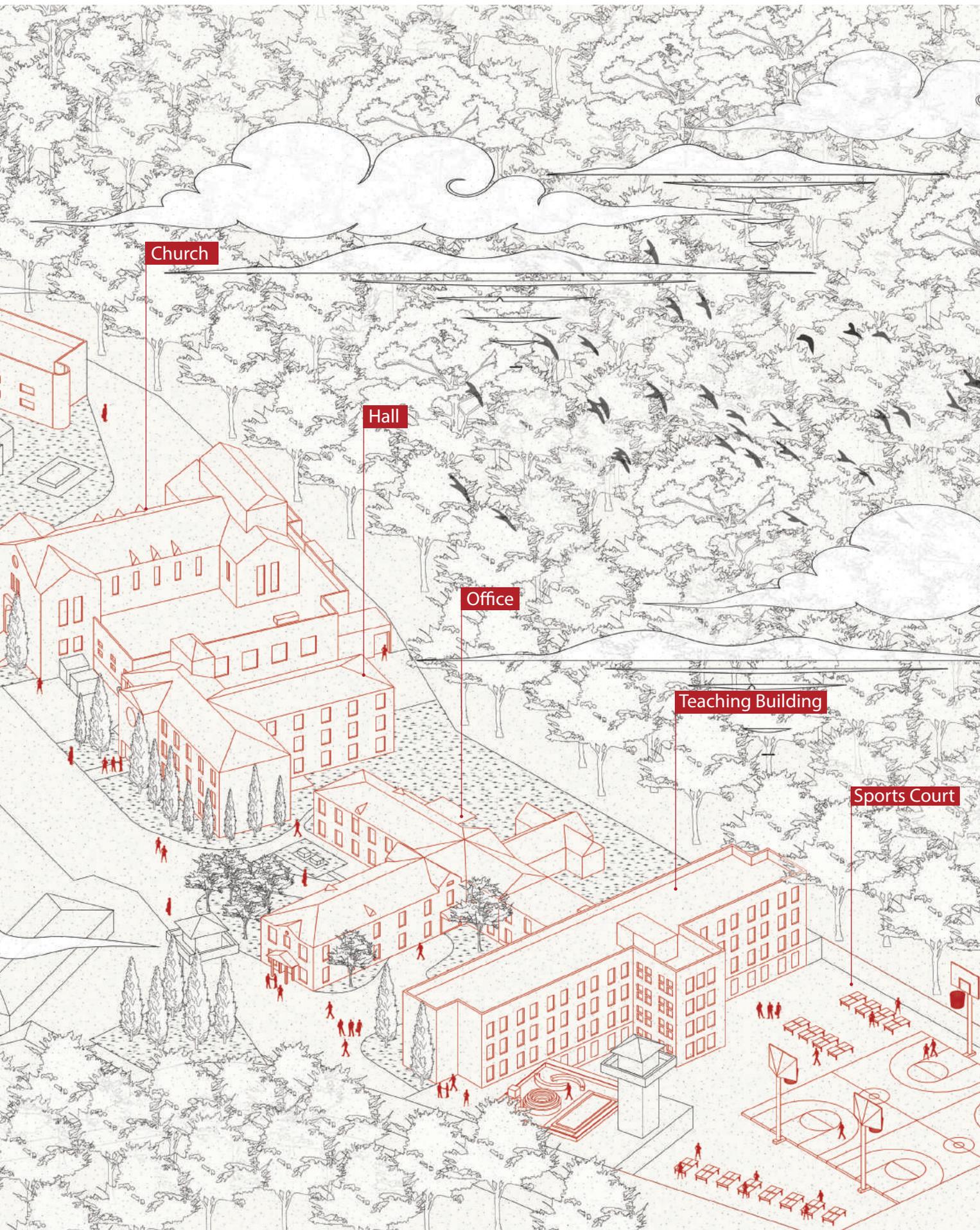
power plant

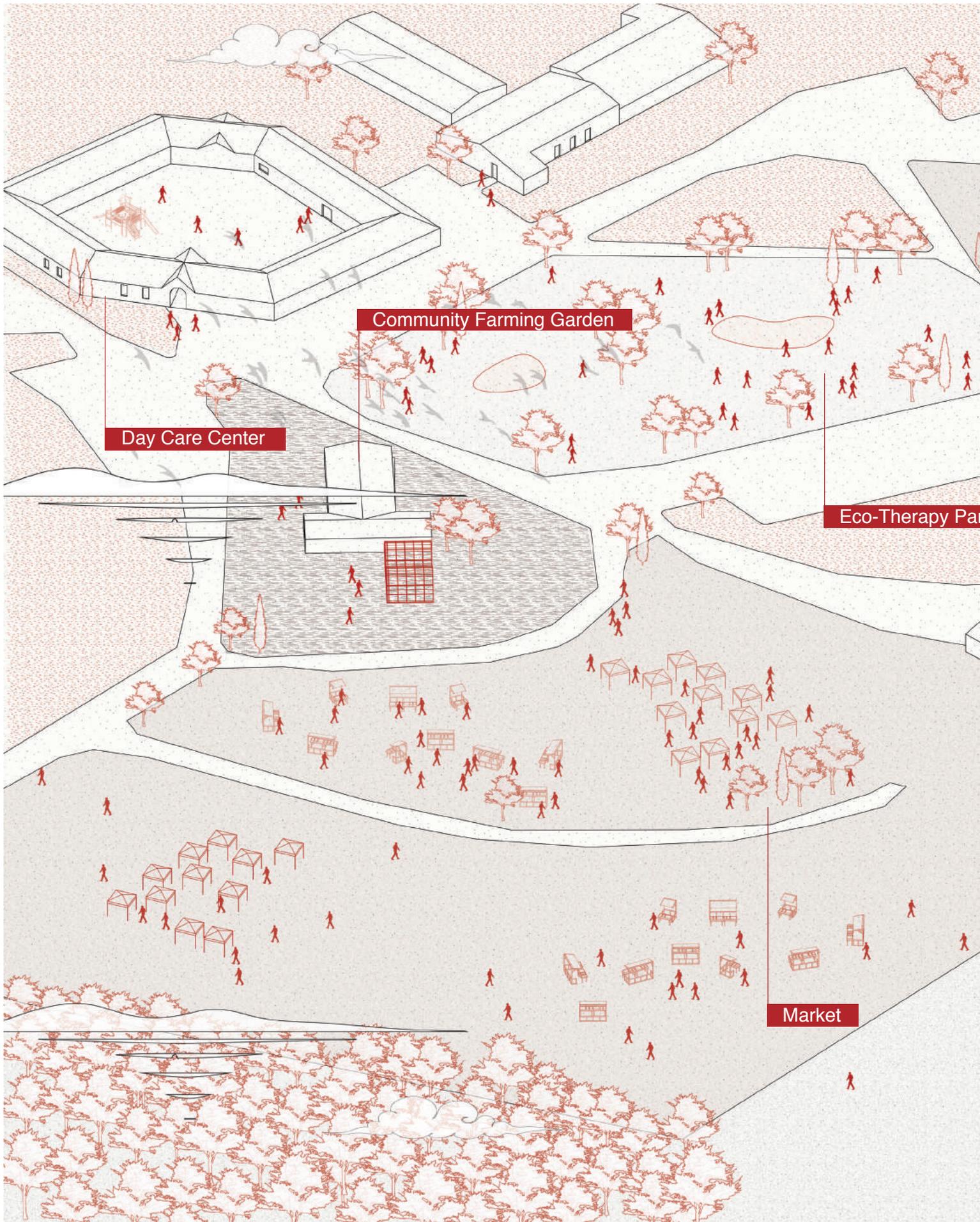
Solar panel

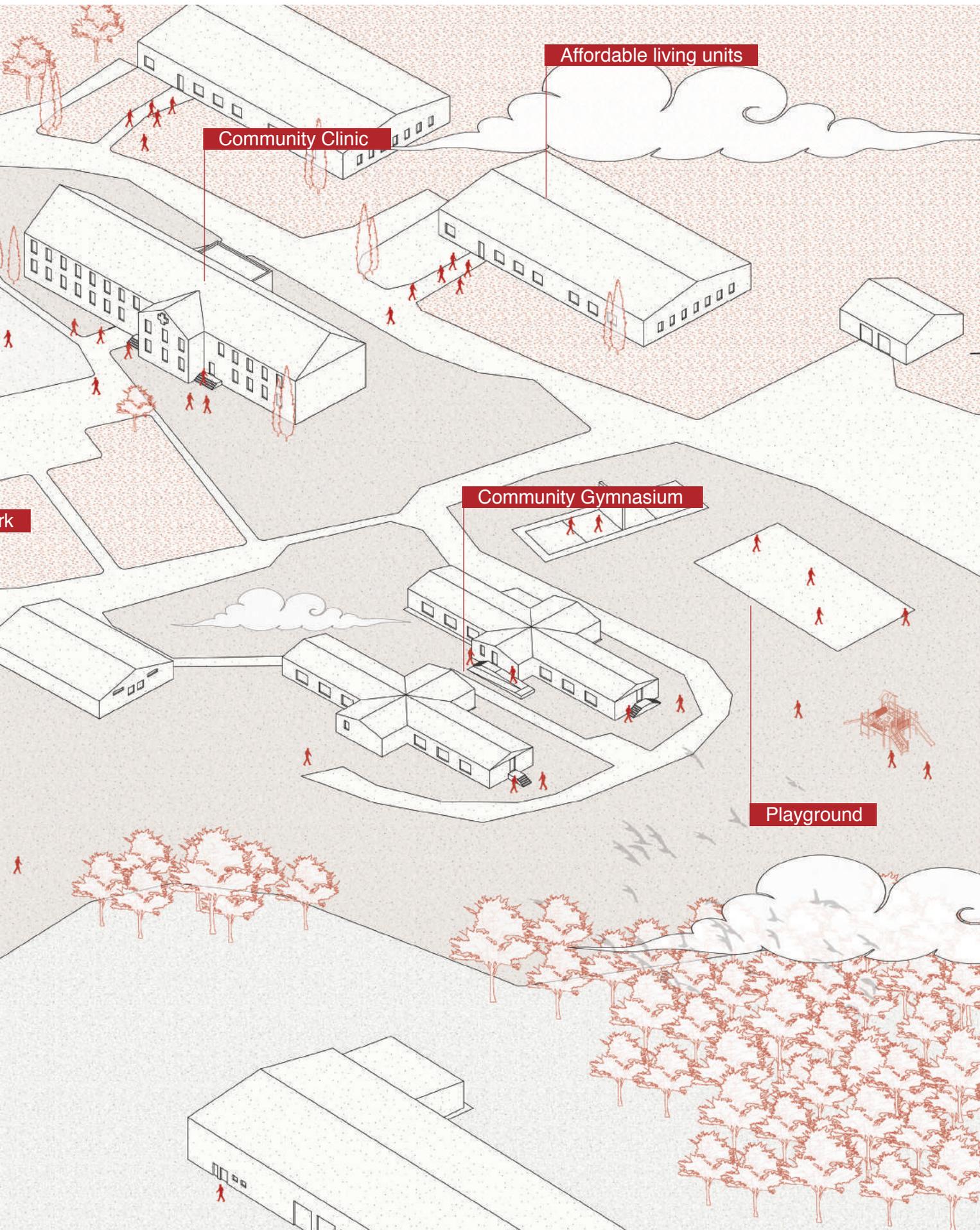
Train

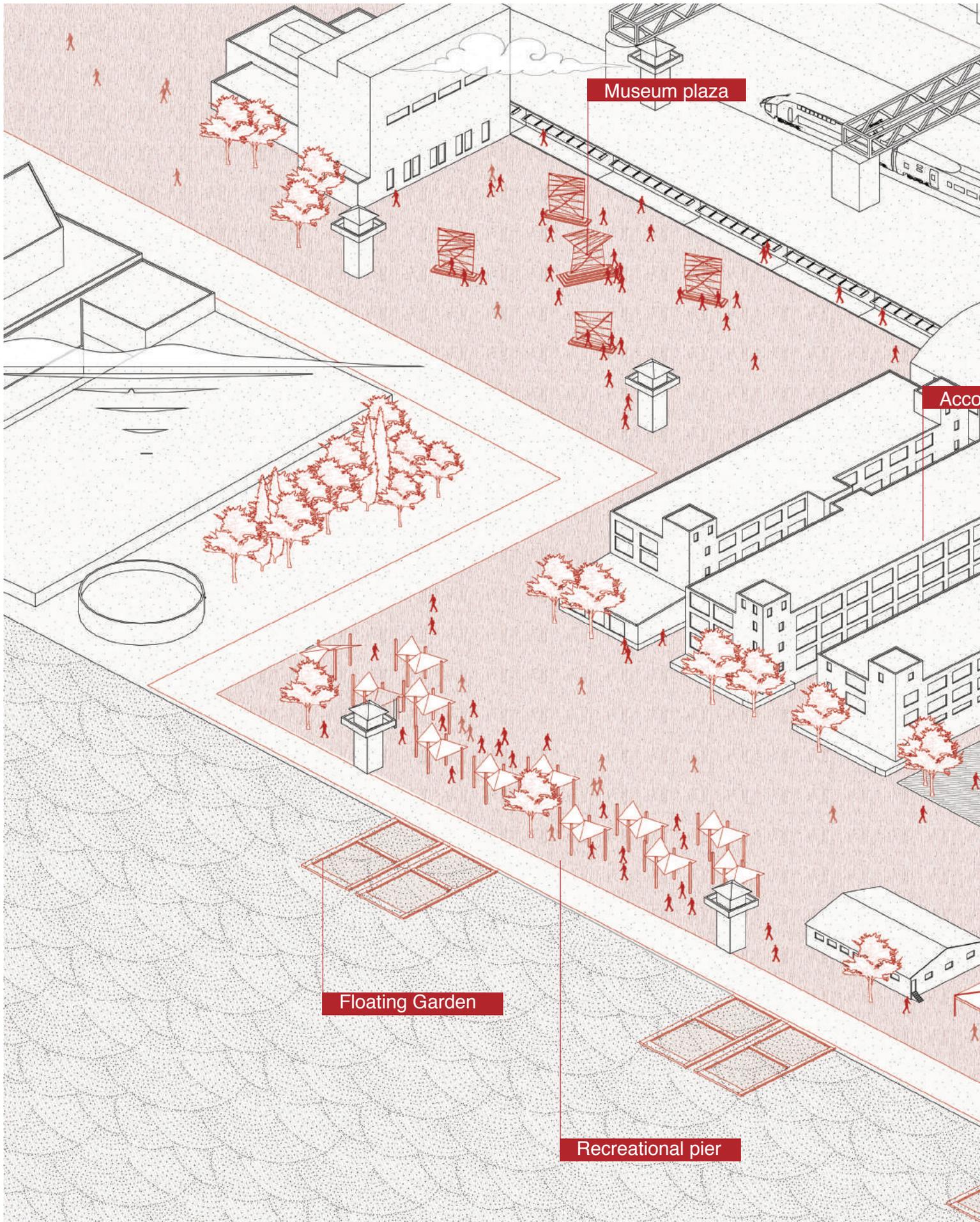










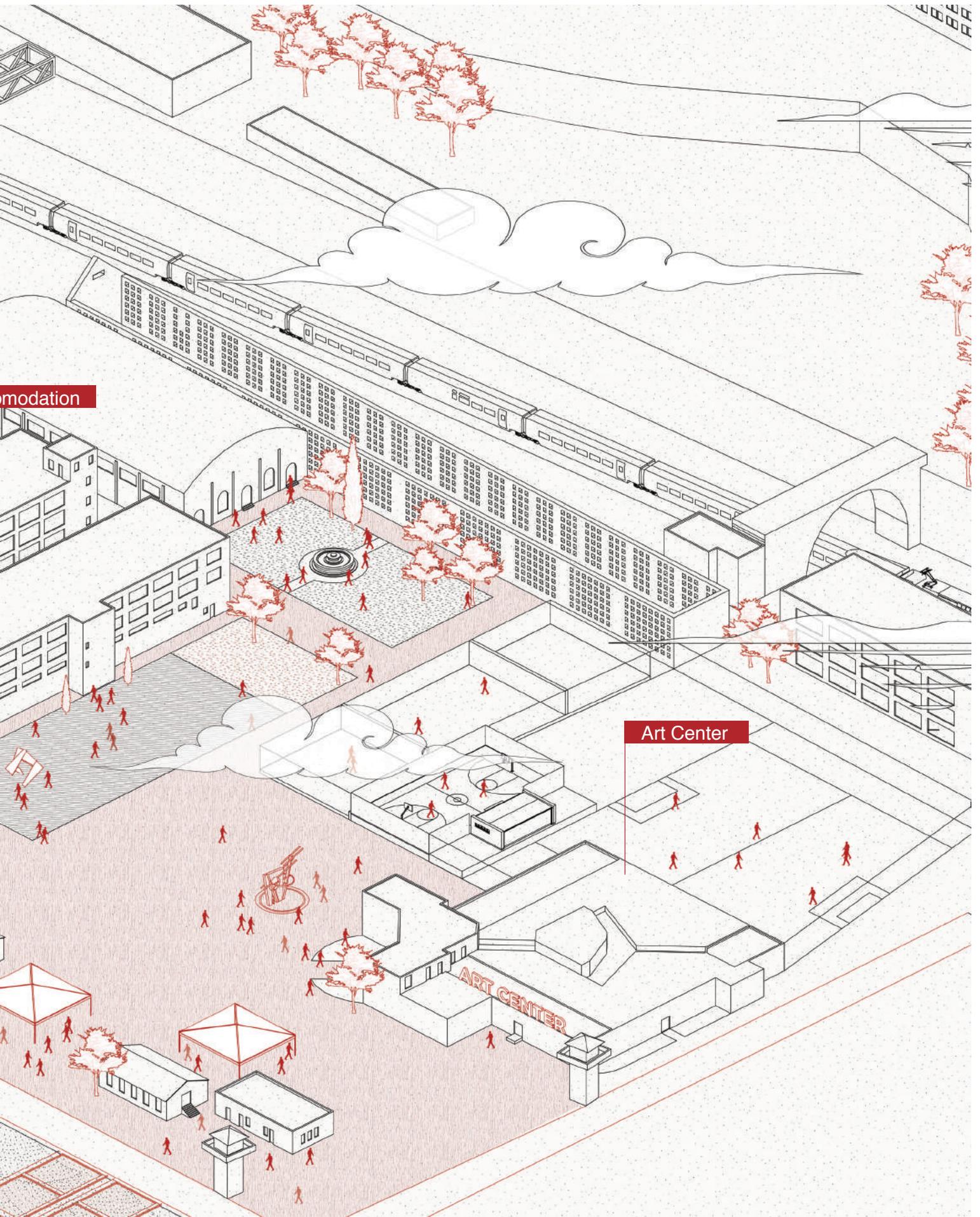


Museum plaza

Acco

Floating Garden

Recreational pier



Accommodation

Art Center

ART CENTER

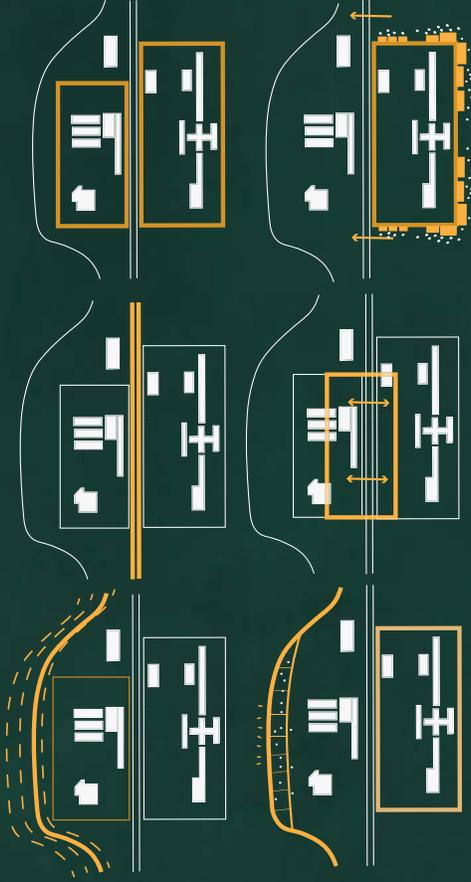
Sing Sing Correctional facility in the village of Ossining is a maximum-security prison in proximity to New York City. It has transitioned from using coal to oil in its powerhouse and produces over 30,000 metric tons of carbon per year. Its location on the waterfront also makes it vulnerable to flooding as water levels can rise to 4 feet. In a timeline spanning over 200 years, it has evolved from a community cooperation program to a walled facility that is isolated from the community.



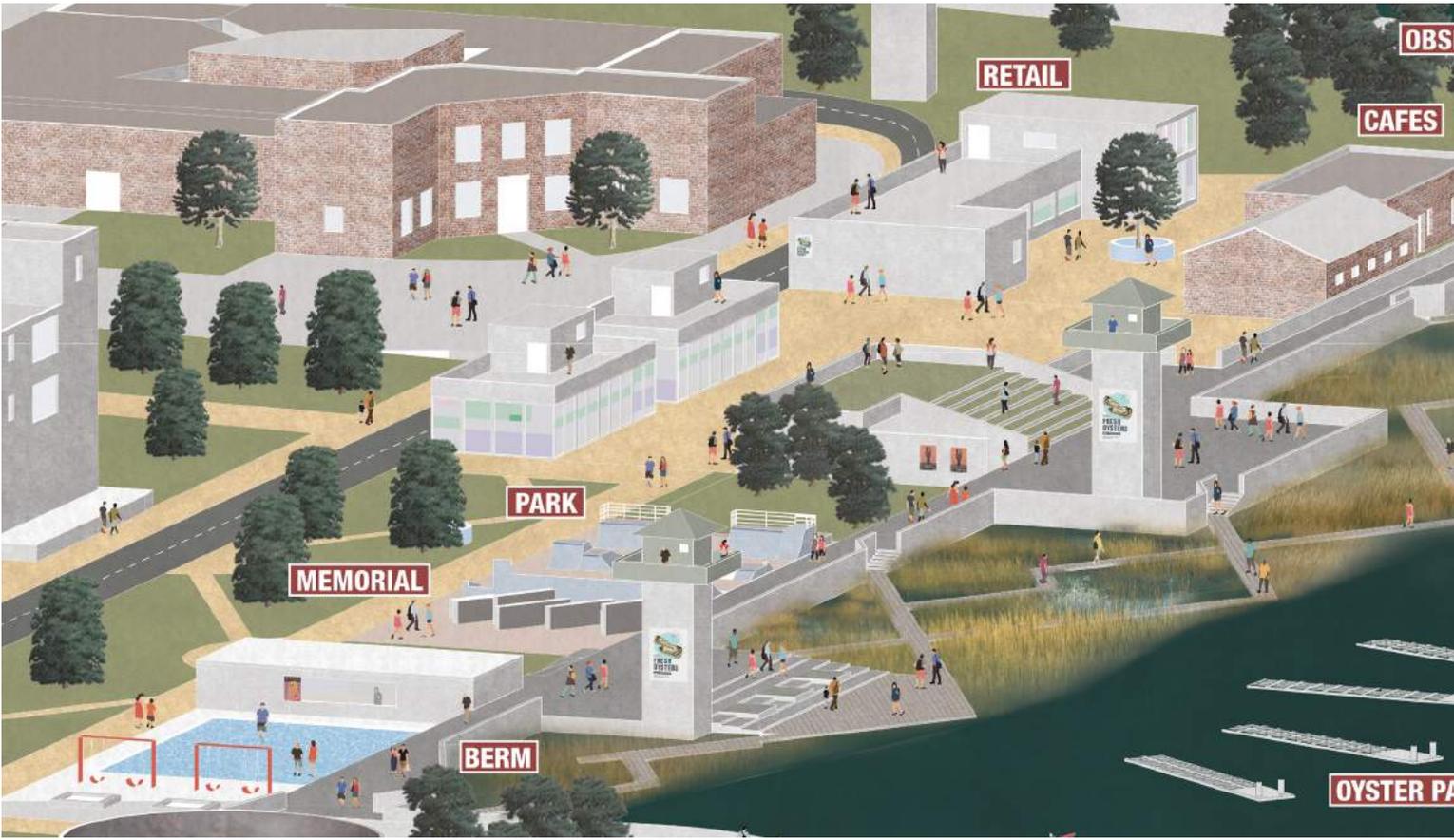
EXISTING SITE

A SENTENCE REWRITTEN

MS AUD Portfolio







The program reconfigures the abandoned warehouses inside the correctional facility into schools, creative and exhibition spaces. They are spaces that help further education, hubs for creativity and also therapeutic. Additionally, they have a positive influence on visiting families, correctional officers and community visitors.





By reopening Sing Sing's waterfront to the inmates and the community, the project aims to reduce stigma and reconnect people to one another. The incarcerated population has an opportunity to spend time with their families in productive landscapes that they built and maintain. These landscapes are an active ecosystem that contributes to the replenishment of the Hudson Valley. The oyster farming in this region is also a source of income for the inmates.



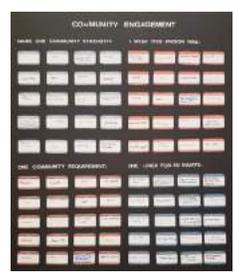


The Criminal Justice System is a complex network of people and institutions that have left people divided. How can a community engagement program ensure that all voices are heard and given equal significance?

What are the priorities of Sing Sing Correctional Facility in looking after their inmates? What does its incarceration population need? What are the best ways to help them? How do the inmates feel about Ossining? Would they want to live here someday? How do the correctional officers aim to improve the inmates? What are their fears and concerns? How does the local police manage security for such a notorious prison? How do the people of Ossining feel about a prison in their village? What do they think about a prison blocking the waterfront? What are their dreams for Ossining?

OSSINING FARMLANDS

COMMUNITY ENGAGEMENT BOARDS



CONVERSATIONS WITH THE COMMUNITY

"Most incarcerated people suffer from mental disorders. They do not get the help they need. When they get out, at 1500 inmates are lumped as dangerous. Most of us are very thankful for the mistakes we have made and want to make things right."
 -Dorian Roseberry, Project Manager of Hudson Link, Formerly incarcerated

"I don't think it's fair for a single community to take in an entire incarcerated population. Ossining already has a large population of low income people and they are struggling. But maybe if they had some rules that could benefit the community, things would be different."
 -Trevor E. Theron, Community Member, Resident of Ossining for 55 Years

"It's just every business I have kids and I don't know enough about any of this."
 -Community Member

"The most important contribution I'm bringing someone with a criminal record. I look on so much closer to get up this close and I can't make a bit for one person."
 -Community Member

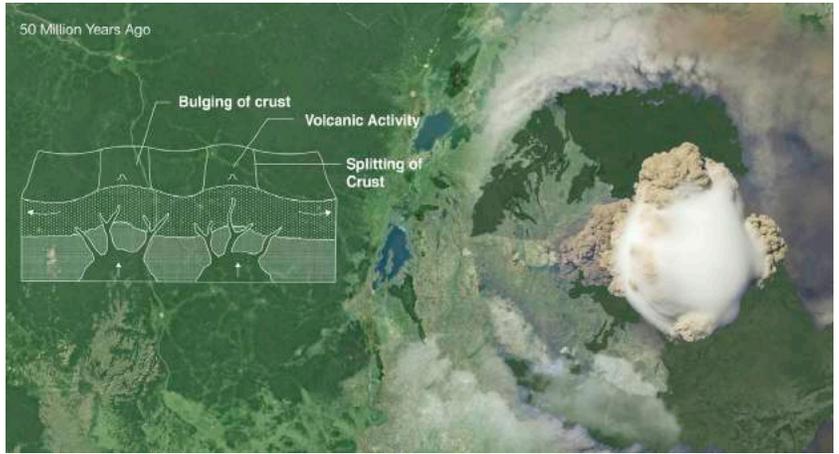
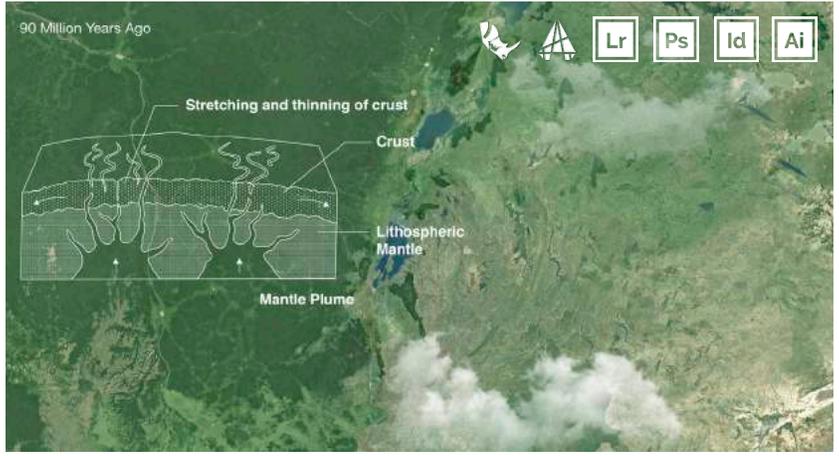
CONVERSATIONS WITH THE EXPERTS

"Customers come by rarely and it's usually just the same people. It's not easy running a business this way and as much as I want to help those who are incarcerated, I don't know if that is a risk I'm willing to take."
 -Juana Maria, Local Business Owner, Resident of Ossining

"Sing Sing is such an integral part of our fabric and most people don't even know its here. It's sitting up the beautiful waterfront. The people of Ossining need more affordable facilities. You've got this wonderful diverse population with no disposable income."
 -Steve Kevin Sylvester, Chief of Police, Resident of Ossining

"The best chance for the inmates to get their life together is to be closer to their families. Family reunion programs are our best bet at reaching out to them. Everywhere it's been implemented, recidivism has dropped drastically."
 -Arthur Wolskipala, Head of Connections at Sing Sing, Resident of Ossining

"It'd be nice to have something here we can afford. I mean you've got some stuff but nothing is free."
 -Community Member



MAPPING THE GREAT RIFT VALLEY

The Great Rift, Lebanon to Mozambique

Summer 2019

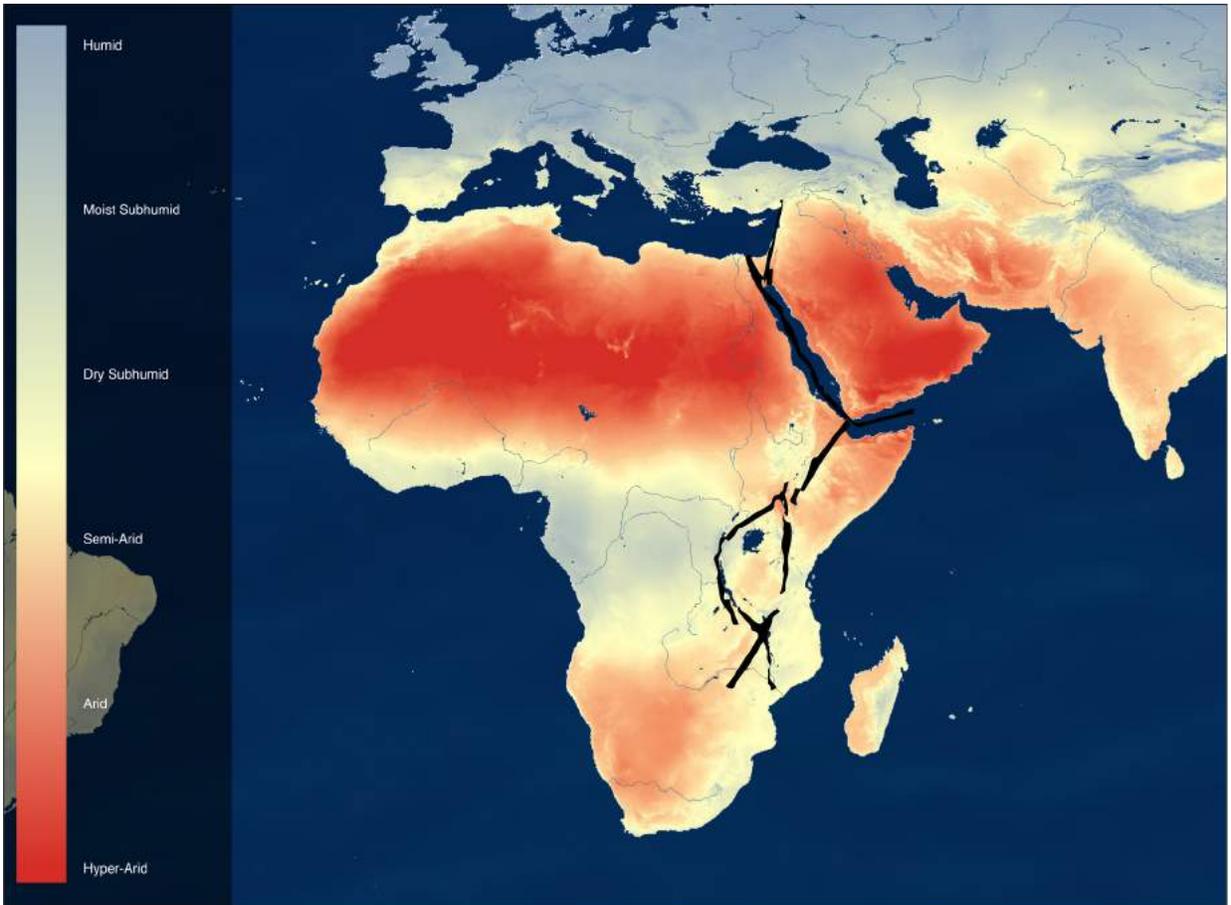
Academic Project | Urban Design Studio I

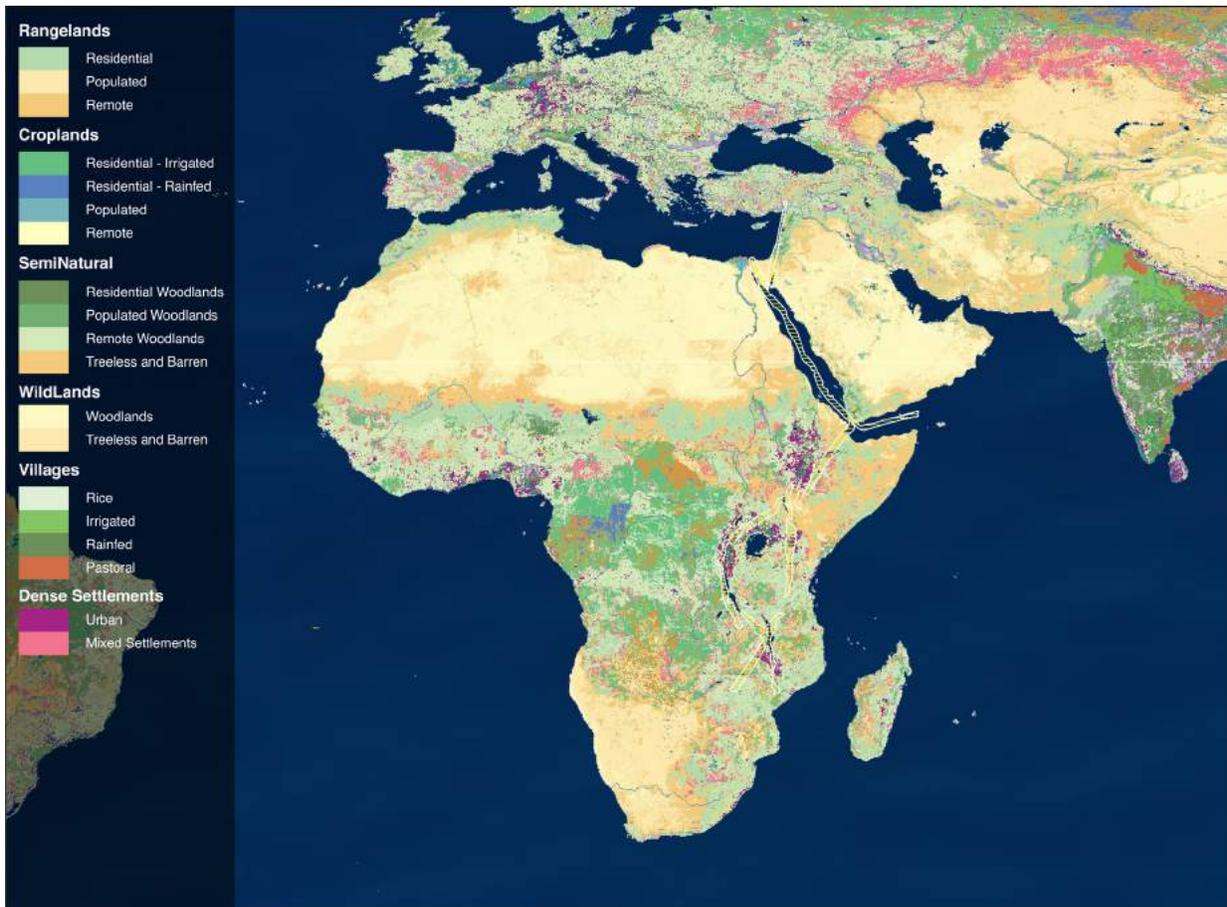
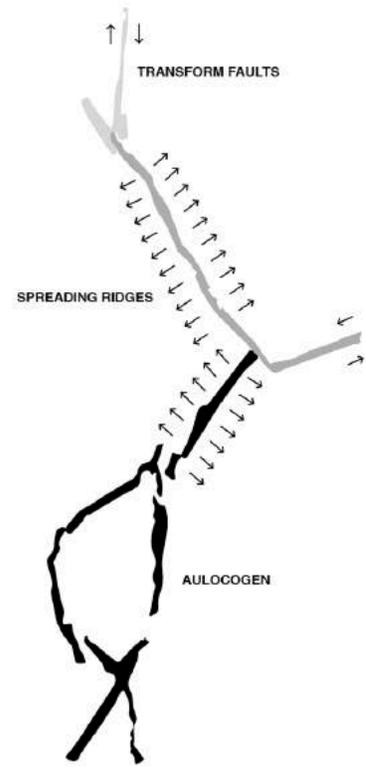
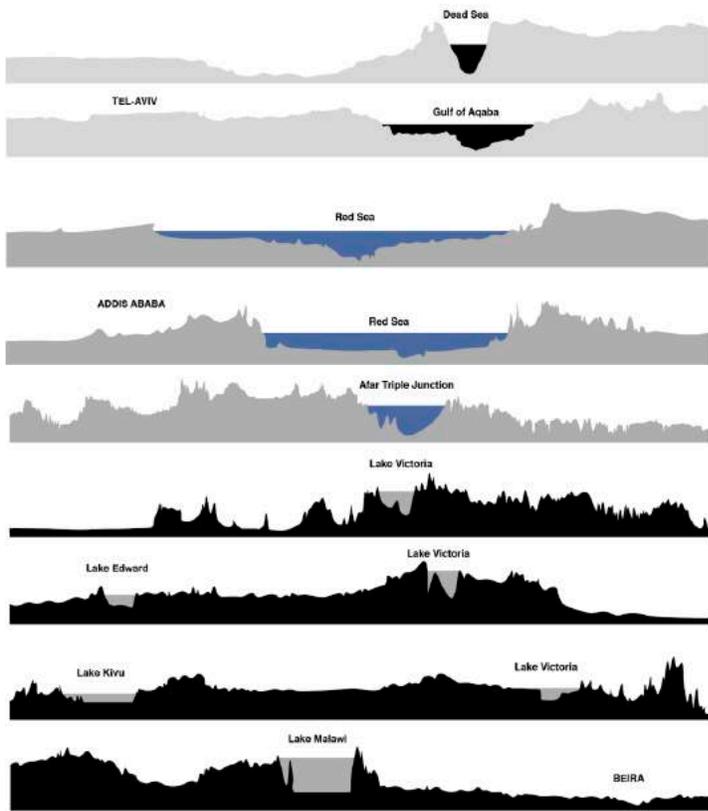
Project Partners | Zixuan Zhang | Eleni Stefania Kalapoda

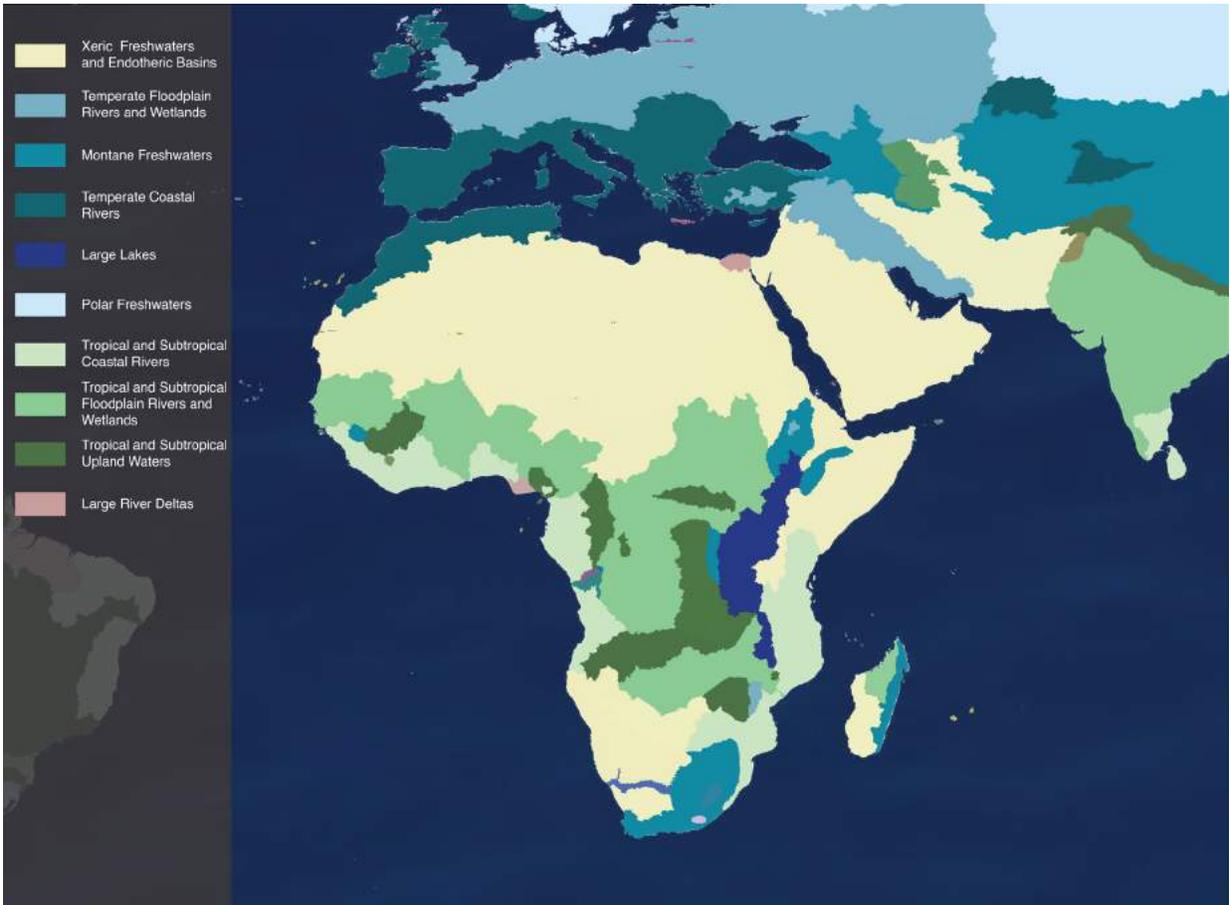
CONTEXT | The Great Rift Valley is the most elaborate system of rifts and faults on the planet. It extends from the Beqaa valley in Lebanon to Mozambique in south-east Africa. Unlike rifts that exist globally, formed by the movement of the crust, the Great Rift Valley is a tectonic rift. The formation of the rift took the collision and separation of 5 tectonic plates over 160 million years.

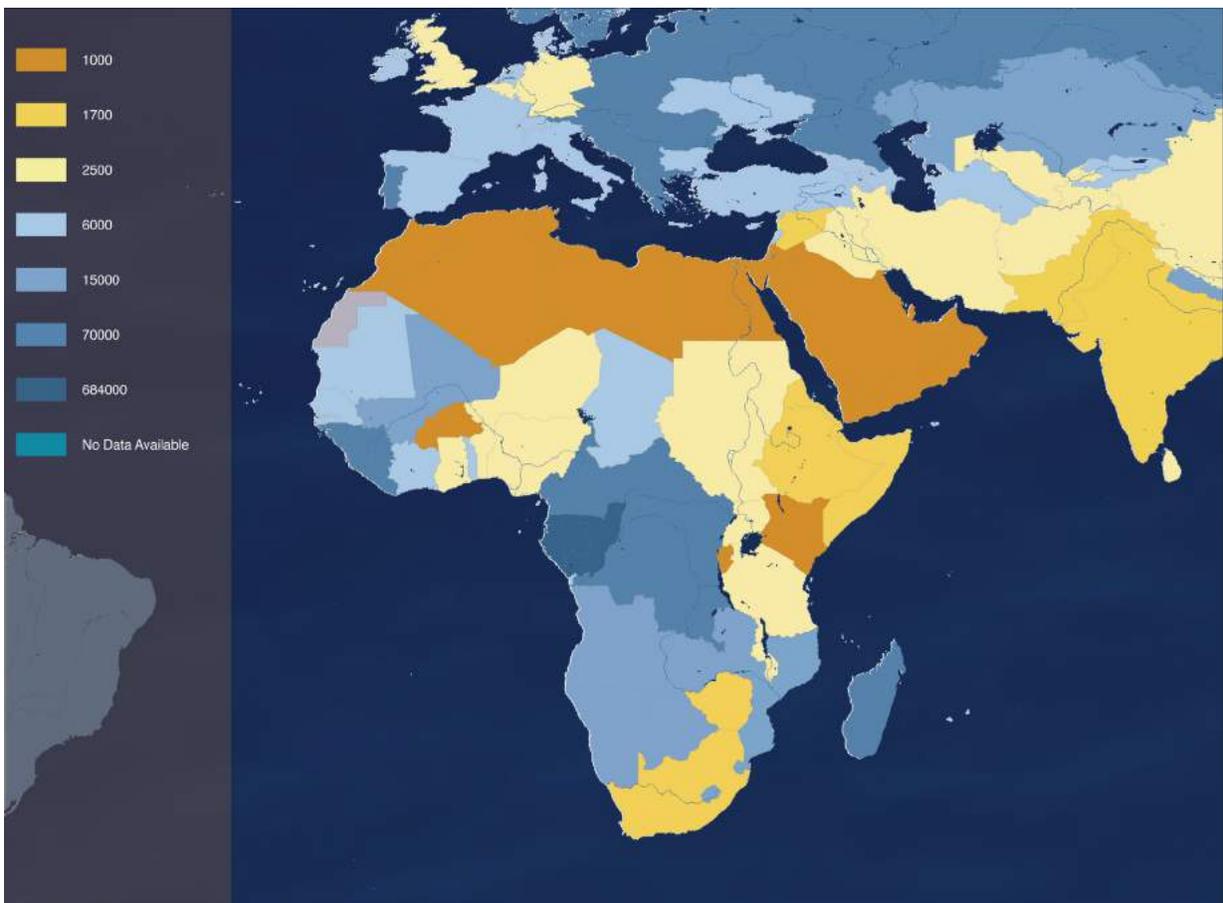
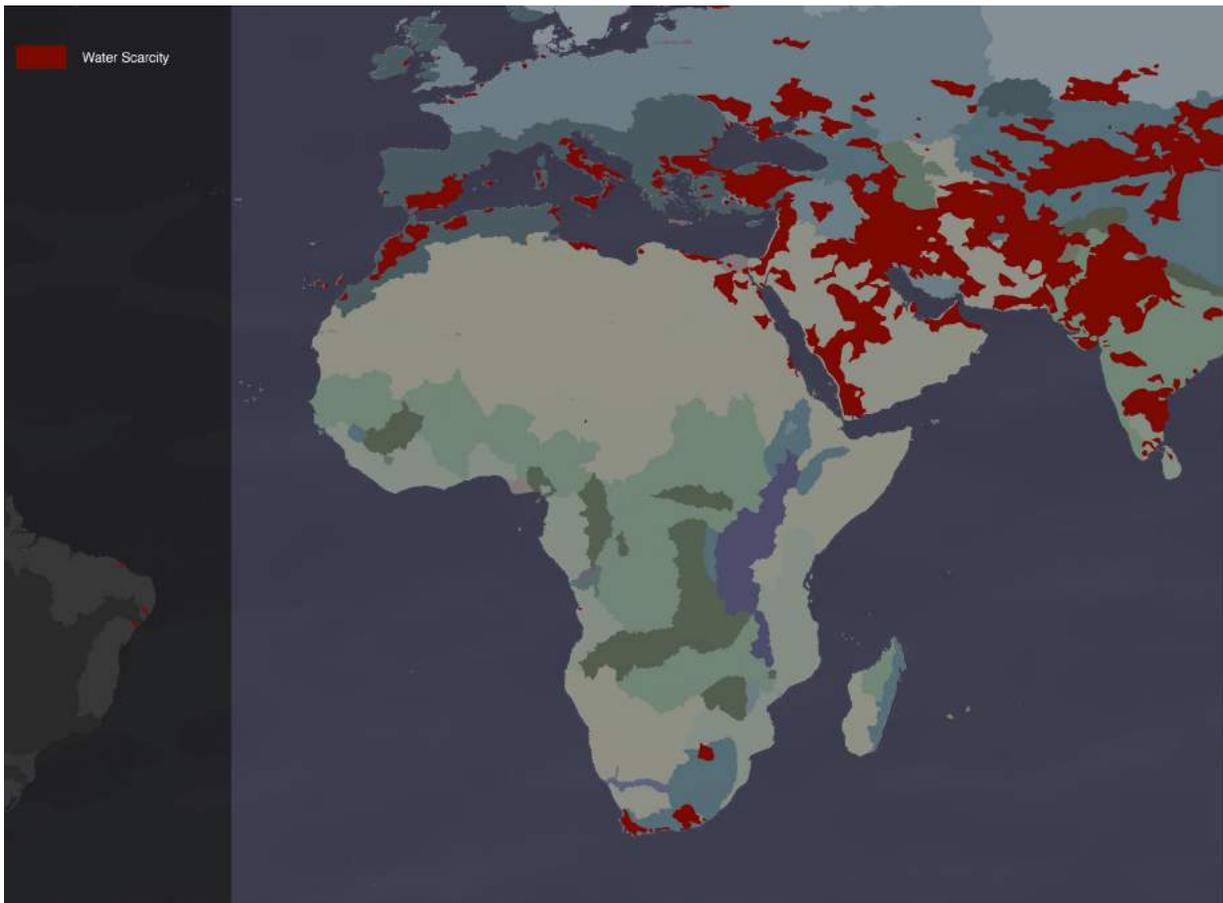
The Rift valley we recognise today has existed for 35 million years. The formation of the rift has created ecosystems in this region, making dense human settlement possible in these sites. Tel-Aviv, Addis Ababa, and Beira are three capital cities located along the Great Rift Valley.

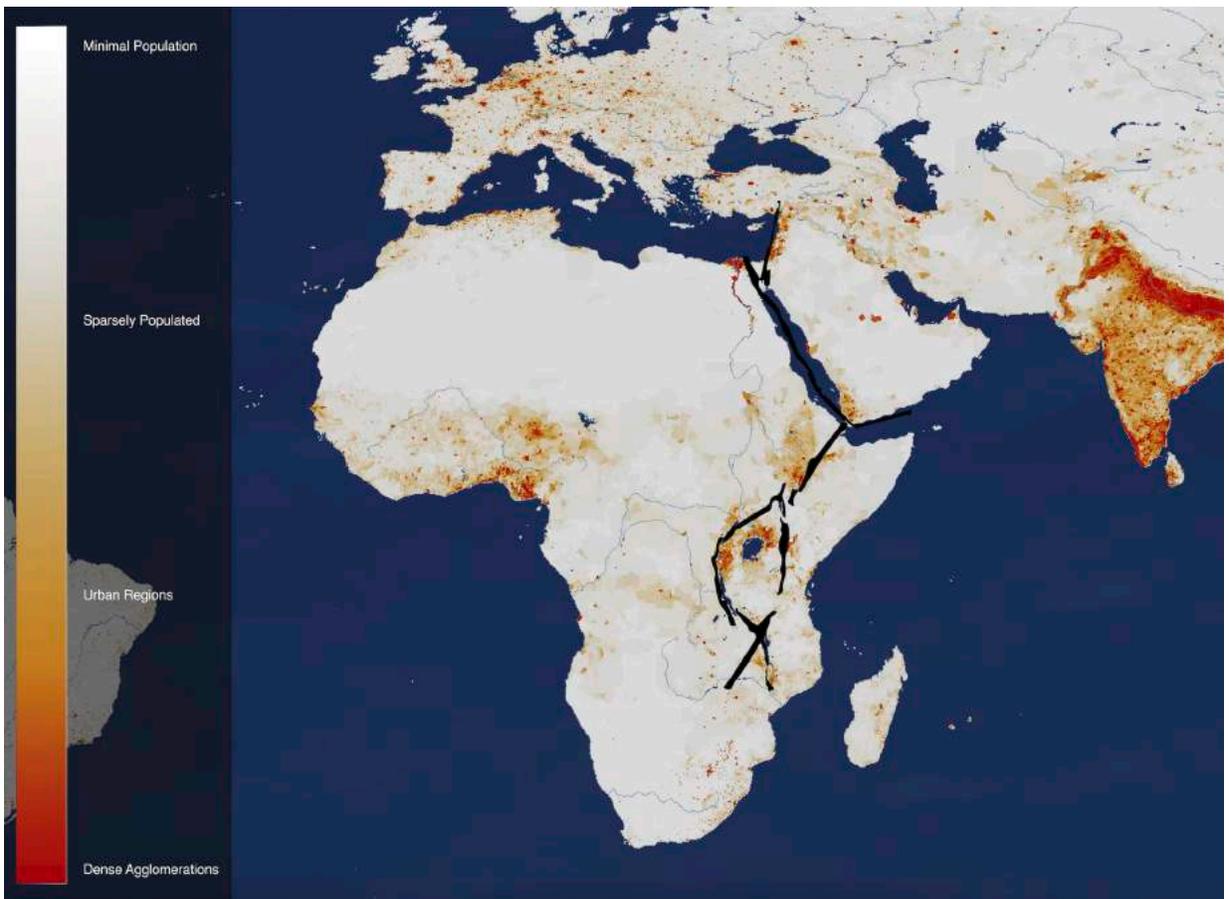
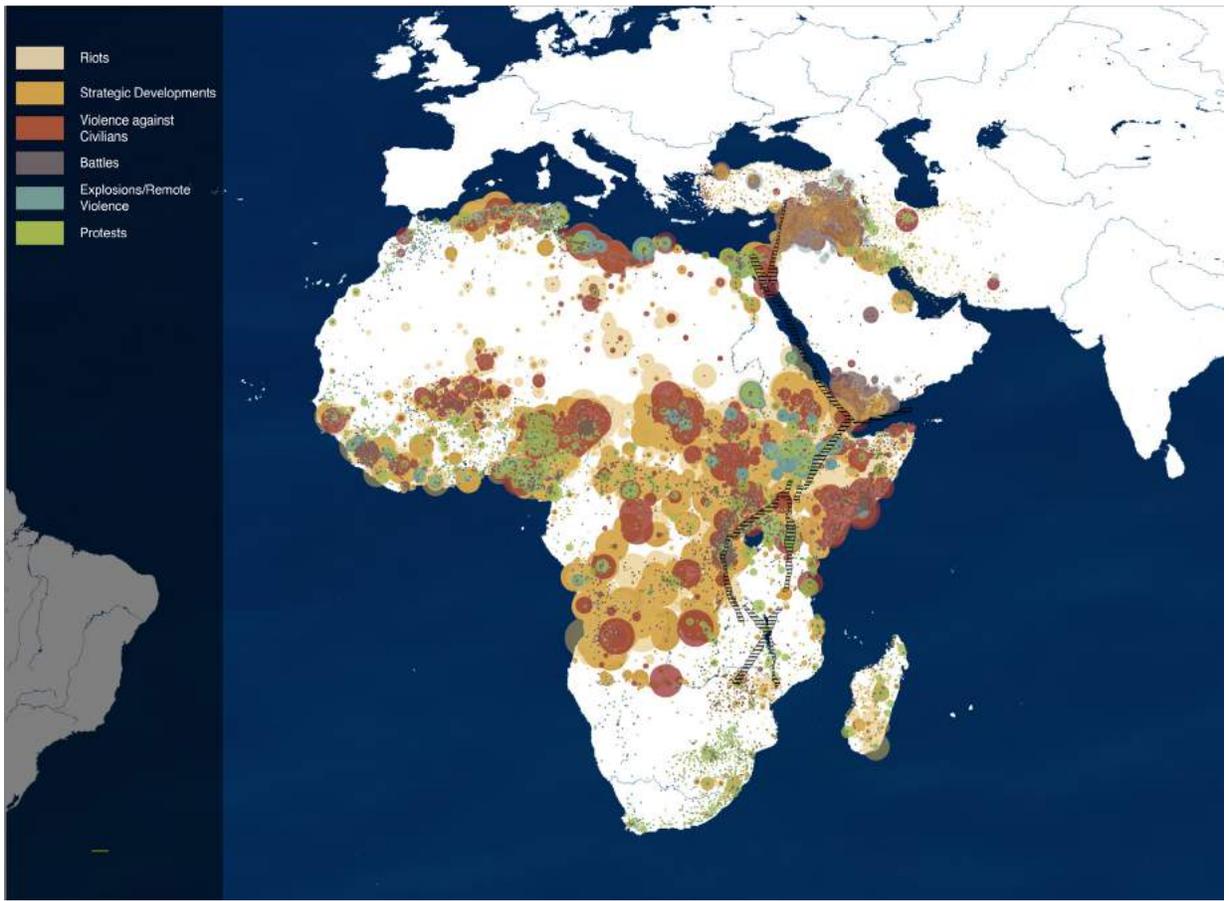
PROJECT | The project explores how the configuration of the rift has been altered drastically in the past hundred years. This change has come about due to the Anthropocene epoch. This change brought about by human activity has drastically changed the earth's geology, climate, and ecology. Residents of the three sites face increased risks from natural disasters, water conflicts, influxes of migrant labour and asylum seekers, and loss of ecosystems among many other outcomes of this rapid urbanisation.

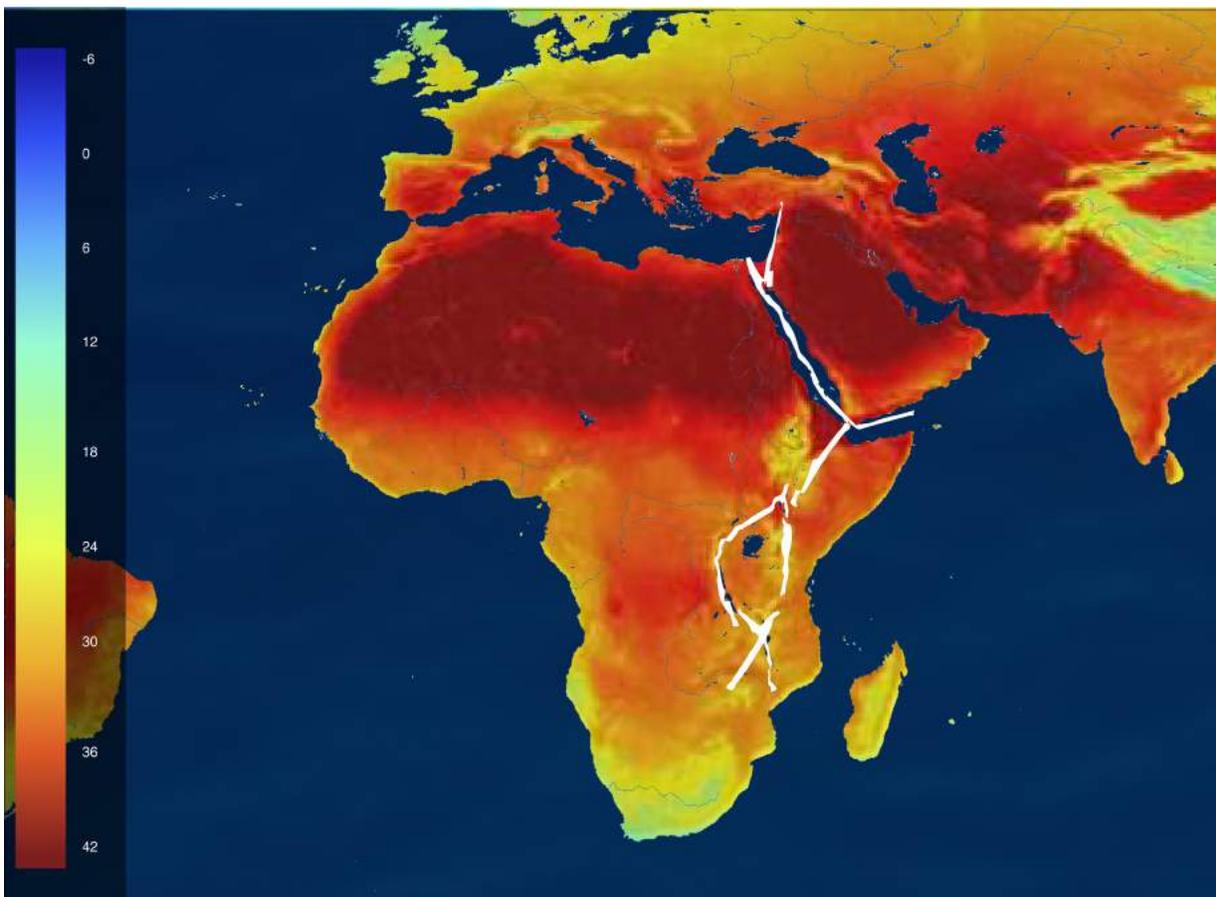
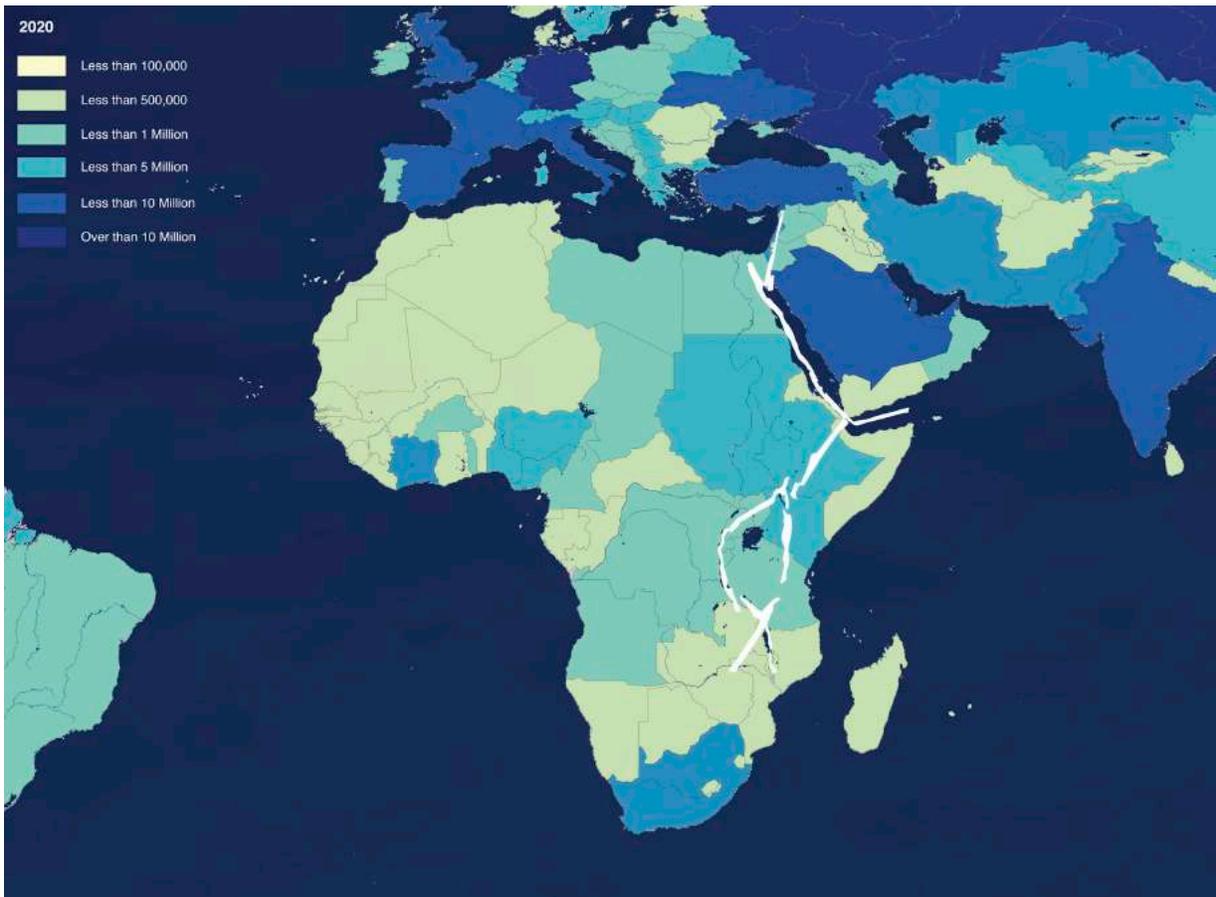












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