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The Politics of the Trash Heap

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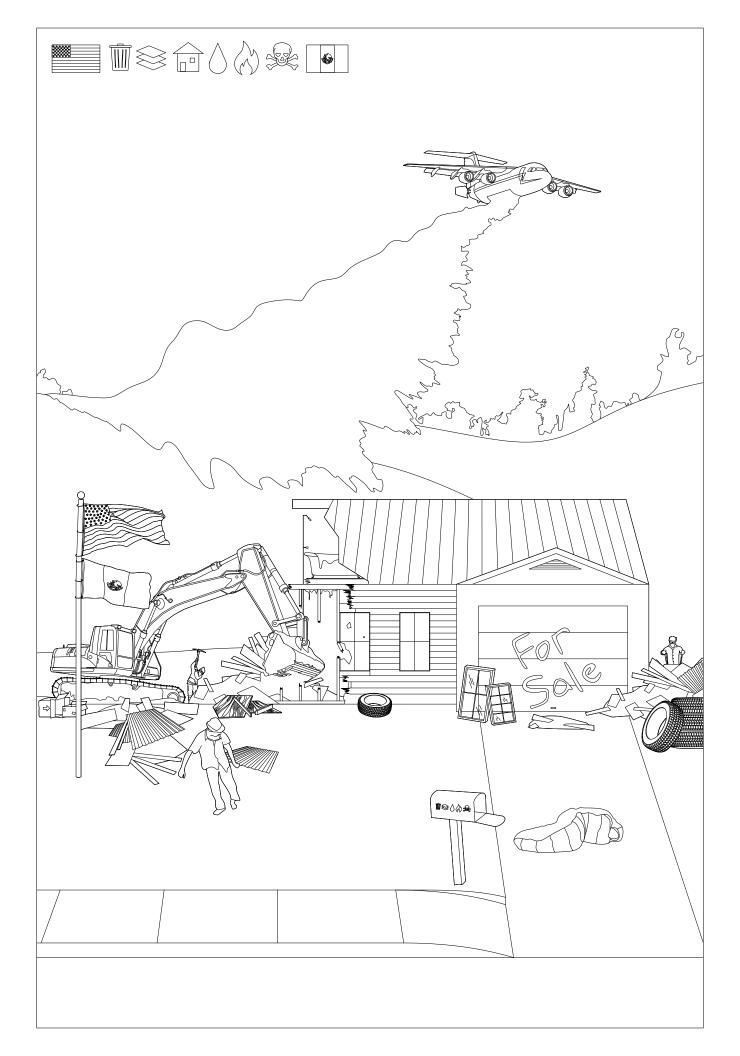


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THE POLITICS of THE TRASH HEAP

Towards a new material dwelling











Kyle Neumann Elizabeth Kamell Timothy Stenson 12/14/2020 Syracuse University School of Architecture

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Thesis Publication Spread



The border region that lies between the US and Mexico is a ribbon of over 2000 miles and stretching 62 miles to the north and south, effectively developing a new border country. The La Paz agreement in 1983 was developed to maintain a strong alliance between the two countries, allowing resources to be shared and policies to overlap in the interest of a more permeable border threshold. But for whom does this threshold provide the most benefit, arguably not for the citizens of towns like Mexicali or Tijuana where a lack of sufficient resources and policies leave them vulnerable to poverty, sickness and climate related issues. The largest of these issues is the lack of proper housing due to rising urban growth and lack of sufficient resources such as water and building materials for homes.

Architects are called to intervene with the upmost cultural competence to emerge a new manifesto on housing and what it means to dwell in ever-shifting realities.

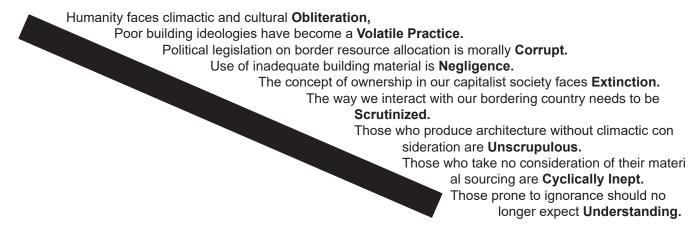
I propose to develop a new methodology on housing fabrication and community development and engagement in the region of northern Baja to be achieved through material sourcing and fabrication, localized infrastructure, and larger scale infrastructure throughout the border region of Mexico and California. This will be done at three scales: Macro-scale, studying ecologies, climate, and political landscapes; Meso-scale, studying infrastructure, resources, population density, and agriculture; Micro-scale, studying familial types, dwelling infrastructure and the cultural community. The Human dwelling will be the amalgamation of this border redevelopment, as refuse material from the US can be augmented to produce climatically appropriate materials for this region. The thesis speculates on these materials being processed in localized facilities to promote cross border comradery and bring financial stability to border settlements in Mexico. The uses for these materials will aid in the construction of necessary dwelling for families of workers on both sides of the newly formed border country. The development of these homes will be made more obtainable through a comprehensive kit of parts and a modular interchangeable system that allows for family growth/downsizing and mobility if climatic threats such as fires infringe on settlements.

Thesis Claims

I propose to develop a new methodology on housing fabrication and community development and engagement in the region of northern Baja to be achieved through material sourcing and fabrication, localized infrastructure, and larger scale infrastructure throughout the border region of Mexico and California. This will be done at three scales: Macro-scale, studying ecologies, climate, and political landscapes; Meso-scale, studying infrastructure, resources, population density, and agriculture; Micro-scale, studying familial types, dwelling infrastructure and the cultural community. The Human dwelling will be the amalgamation of this border redevelopment, as refuse material from the US can be augmented to produce climactically appropriate materials for this region. The thesis speculates on these materials being processed in localized facilities to promote cross border comradery and bring financial stability to border settlements in Mexico. The uses for these materials will aid in the construction of necessary dwelling for families of workers on both sides of the newly formed border country. The development of these homes will be made more obtainable through a comprehensive kit of parts and a modular interchangeable system that allows for family growth/downsizing and mobility if climactic threat such as fires infringe on settlements.

How we dwell in this reality faces OBLIVION!

A fire is burning under our existence, A smokeless sky leaves us in peril to our malcontent brutality. Our inability to reconcile facts leads us down this path of inherent demise, Dwelling is a moral right! Recognize these facts to preserve and improve our collective cultural and climactic context!



The hard boundary is just that. HARD! Preexisting policies promise a palpable new threshold in which the allocations of life-giving resources are obtained unanimously by all municipalities. This is a FALLACY! The inept nature of such preexisting treaties have found their policies antiquated and impotent for the tasks at hand. Leaving communities fighting scrambling over one another to obtain enough to survive in this context. This boundary is not a transparent threshold. It is HARD. And until it can be dissolved this region will find its issues ever-growing.

We REJECT the inability to consider climactic building positioning.

We REJECT the monetization of home as commodity and not necessity.

ve REJECT the monetization of nome as commodity and not necessity.

We REJECT the blatant ignorance of building material sourcing and construction methods.

We REJECT the loss of our habitation/habitat in result of capitalistic monetization.

We DEMAND issues on building with climate change be addressed.

We DEMAND adaptive dwellings that work in tandem with their social/political/climatic contexts.

We DEMAND the permeability of our border for egalitarian transfer of resources.

We DEMAND that the fragility of cultural relevance be preserved through integration of modern building practice.

AMENDMENTS TO PREEXISTING TREATIES ARE EXISTENTIAL FOR EGALITARIAN ALLO-CATION OF RESOURCES TO MUNICIPALITIES ON EITHER SIDE OF THE BORDER. WITH-OUT THESE CONTINGENCIES, LIFE GIVING RESOURCES WILL NOT FIND THOSE WHO NEED THEM MOST AND ACTIONS SO INFORMAL WILL HAVE TO TAKE PLACE IN ORDER TO PRESERVE ORDER. ON THE EDGE OF A RESOURCE AND HOUSING CRISIS, ARCHITECTS ARE CALLED TO INTERVENE WITH THE UPMOST CULTURAL COMPETENCE TO EMERGE A NEW MANIFESTO ON HOUSING AND WHAT IT MEANS TO DWELL IN EVER-SHIFTING REALITIES.

Diciplinary / Theoretical / Historical

Policies

1. The La Paz Agreement

The La Paz Agreement of 1983 affects over 2000 miles of border territory between the US and Mexico expanding 62 miles on either side of the border developing a politically unique border area. The agreement covers a broad area of subjects with 5 annexes and over 100 articles addressing specific issues, most notable are the articles on allocating resources between the two countries and the effort to develop a more integrated border region. This agreement was meant to provide mutual benefit for individuals on either side of the border, yet the Mexican side suffers from severe medical, insurance, migration inequitable health and poverty issues. While Mexico's sister cities in the US see little to none of these issues due to different policies and access to essential resources like **WATER AND BUILDING MATERIALS FOR HOMES**.

ARTICLE 1 The United States of America and the United Mexican States, hereinafter referred to as the Parties, agree to cooperate in the field of environmental protection in the border area on the basis of equality, reciprocity and **MUTUAL BENEFIT**. The objectives of the present Agreement are to establish the basis for cooperation between the Parties for the protection, improvement and conservation of the environment and the problems which affect it, as well as to agree on necessary measures to prevent and control pollution in the border area, and to provide the framework for development of a system of notification for emergency situations. Such objectives shall be pursued without prejudice to the cooperation which the Parties may agree to undertake outside the border area.

Policies

2. Water Treaty of 1944

The Water Treaty, signed in Washington on February 3 1944 allocated water along the United States-Mexico border based on a negotiation formula. in Article 4, the 1944 Treaty allotted the waters, of the Rio Grande/Bravo between Fort Quitman, Texas and the Gulf of Mexico to the two countries as follows:

A. To Mexico

- a) All the waters reaching the main channel of the Rio Grande (Rio Bravo) from the San Juan and Al amo Rivers, including the return flow from the lands irrigated by the last two rivers.
- b) Half of the flow in the main channel of the Rio Grande (Rio Bravo) below the lowest major interna tional storage dam, insofar as said flow is not specifically allotted under this Treaty to either of the two countries.
- c) Two-thirds of the flow reaching the main channel of the Rio Grande (Rio Bravo) from the Conchos, San Diego, San Rodrigo, Escondido and Salado Rivers and the Las Vacas stream.
- d) Half of all other flows not otherwise allotted by this Article 4 occurring in the main channel of the Rio Grande (Rio Bravo), including contributions from all the unmeasured tributaries, which are those not named in Article 4, between Fort Quitman and the lowest major international storage dam.

B. To the United States

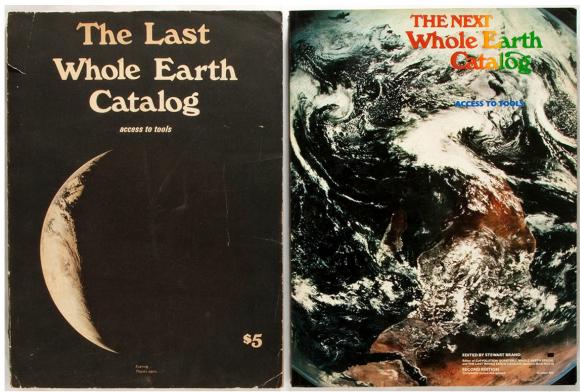
- a) All of the waters reaching the main channel of the Rio Grande (Rio Bravo) from the Pecos and Devils Rivers, Good-enough Spring, and Alamito, Ter-lingua, San Felipe and Pinto Creeks.
- b) One-half of the flow in the main channel of the Rio Grande (Rio Bravo) below the lowest major in ternational storage dam, so far as said flow is not specifically allotted under this Treaty to either of the two countries.
- c) One-third of the flow reaching the main channel of the Rio Grande (Rio Bravo) from the Conchos, San Diego, San Rodrigo, Escondido and Salado Rivers and the Las Vacas Arroyo, provided that this third shall not be less, as an average amount in cycles of five consecutive years, than 350 000 acre-feet (431 721000 cubic meters) annually. The United States shall not acquire any right by the use of the waters of the tributaries named in this subparagraph, in excess of the said 350 000 acre-feet (431 721 000 cubic meters) annually, except the right to use one-third of the flow reaching the Rio Grande (Rio Bravo) from said tributaries, although such one-third may be in excess of that amount.
- d) One-half of all other flows not otherwise allotted by this Article 4 occurring in the main channel of the Rio Grande (Rio Bravo), including the contributions from all the unmeasured tributaries, which are those not named in this Article 4, between Fort Quitman and the lowest major international storage dam.

Policies

3. Material Border Crossing

The materials that make up much of the border towns and cities in Mexico are originally sourced from the US, often refuse or leftover building materials from luxury homes find their way over the border and are used to construct informal settelments on the fringes on cities like Tijuana or Mexicali. Often constructed quickly, these structures house individuals whom cannot abide by Tijuana's steep housing interest rates or who wish to free themselves from financial obligations of land ownership. Since the 1940's the U.S. has been providing or disposing of waste building products in TJ, everything from rubber tiers, wood, glass, metal, masonry and even entire buildings make it across the border each year. Often newcomers to TJ looking for work find themselves homeless and instead of living on the street they construct dwellings of this type on often unbuildable land with no utilities or formal infrastructure. This fact is so pervasive in Mexican border towns that it can be seen as a vernacular building, where culture and family have strong roots.

Precedents Precedents



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Image by Stewart Brand

Understanding Whole Systems

Shelter and Land Use

Industry and Craft

Comunications

Comunity

Nomadics

Learning



Image by Teddy Cruz

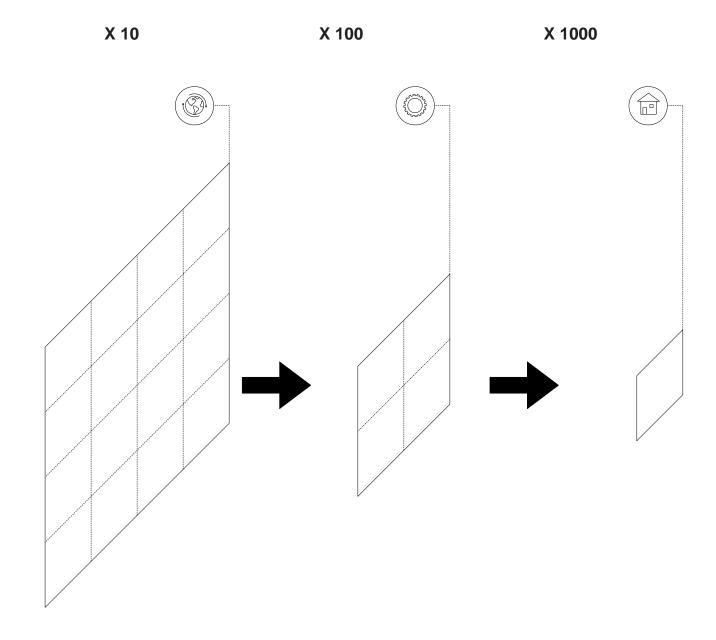
Criteria of Evaluation

The evaluation of this thesis depends:

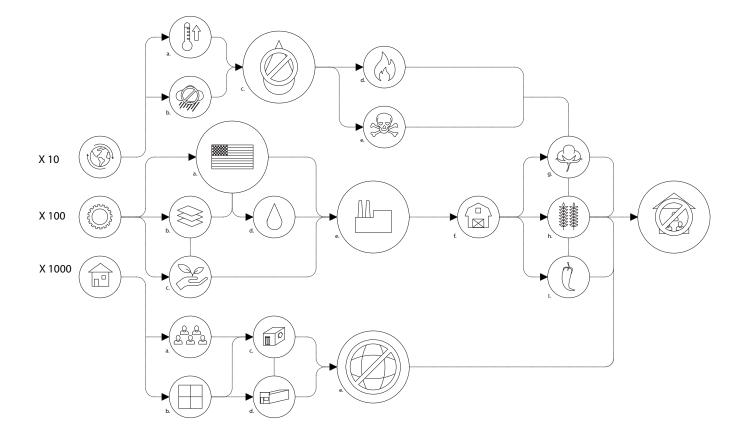
- 1. On the formation of relationships between the three proposed scales, Macro, Meso and Micro.
- 2. Establishing a base infrastructure for a sustaning community model.
- 3. re-evaluating political criteria on climate change, resource allocation and land use.
- 4. Establishing a projected timeline for climate change in this region.
- 5. Defining what it means to dwell in this region (domestic living).
- 6. The development of a process to form a cultural kit of parts for domestic living.

Research

The border region that lies between the US and Mexico is a ribbon of over 2000 miles and stretching 62 miles to the north and south, effectively developing a new *BORDER COUNTRY*. The La Paz agreement in 1983 was developed to maintain a strong alliance between the two countries, allowing resources to be shared and policies to overlap in the interest of a more *PERMEABLE BORDER THRESHOLD*. But for whom dose this threshold provide the most benefit? Arguably not for the citizens of towns like Mexicarna or Tijuana where a lack of sufficient resources and policies leave them vulnerable to poverty, sickness and climate related issues. The largest of these issues is the *LACK OF PROPER HOUSING* due to rising urban growth and lack of sufficient resources such as water and building materials for homes.



Issues at 3 scales Macro Questions



X 10 Macro Scale
Climate / Landscapes / Ecologies

a. temperature rise

b.lack of rain

c. no water

d. fire threat

e. death

X 100 Meso Scale
Infrastructure / Recourses / Policies

a. relationship with USA

b. materials

c. agriculture

d. water as a resource

e. industry

f. farms / main crops

g. cotton

h. wheat

I. produce

X 1000 Micro Scale Community / Dwelling / Material

a. population growth

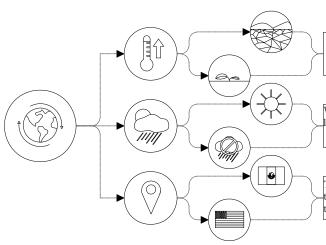
b. zoning

c. informal settlements

 $\ \, \text{d. houses produced from housing crisis}$

e. death of culture

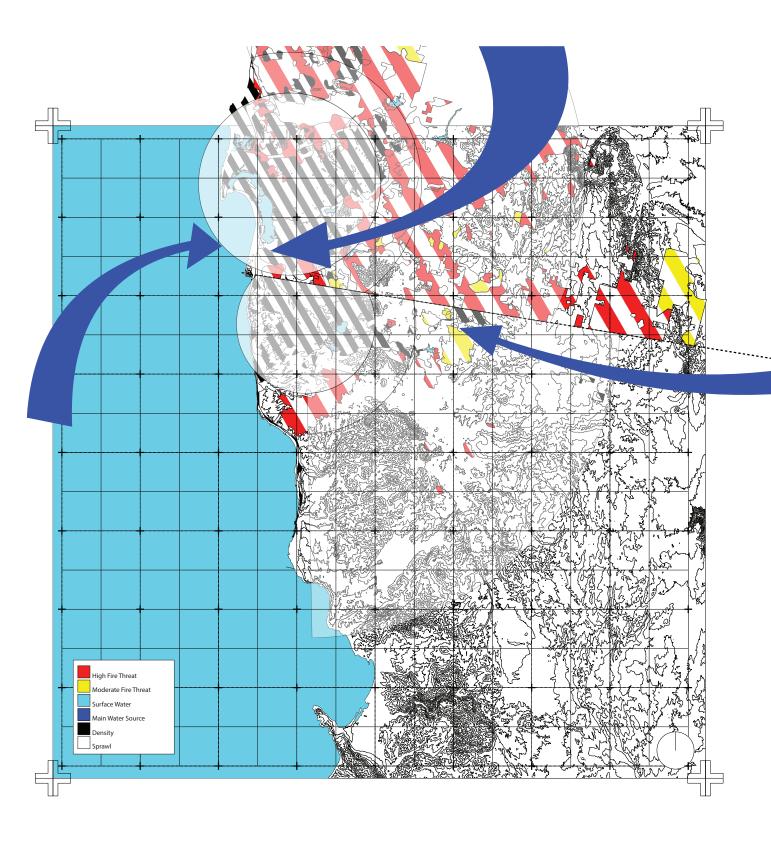
- How will climate most likely affect these regions and the people who dwell in these regions?
 - a. How will pre-instated treaties, regarding resources, protect or destabilize communities within the border region?
- How have border treaty agreements allocated resources unequally, or equally, to either side of the border region?
 - a. Do these allocations provide more or less benefit to municipalities and localized communities within the La Paz border treaty?
 - b. Who does this benefit?

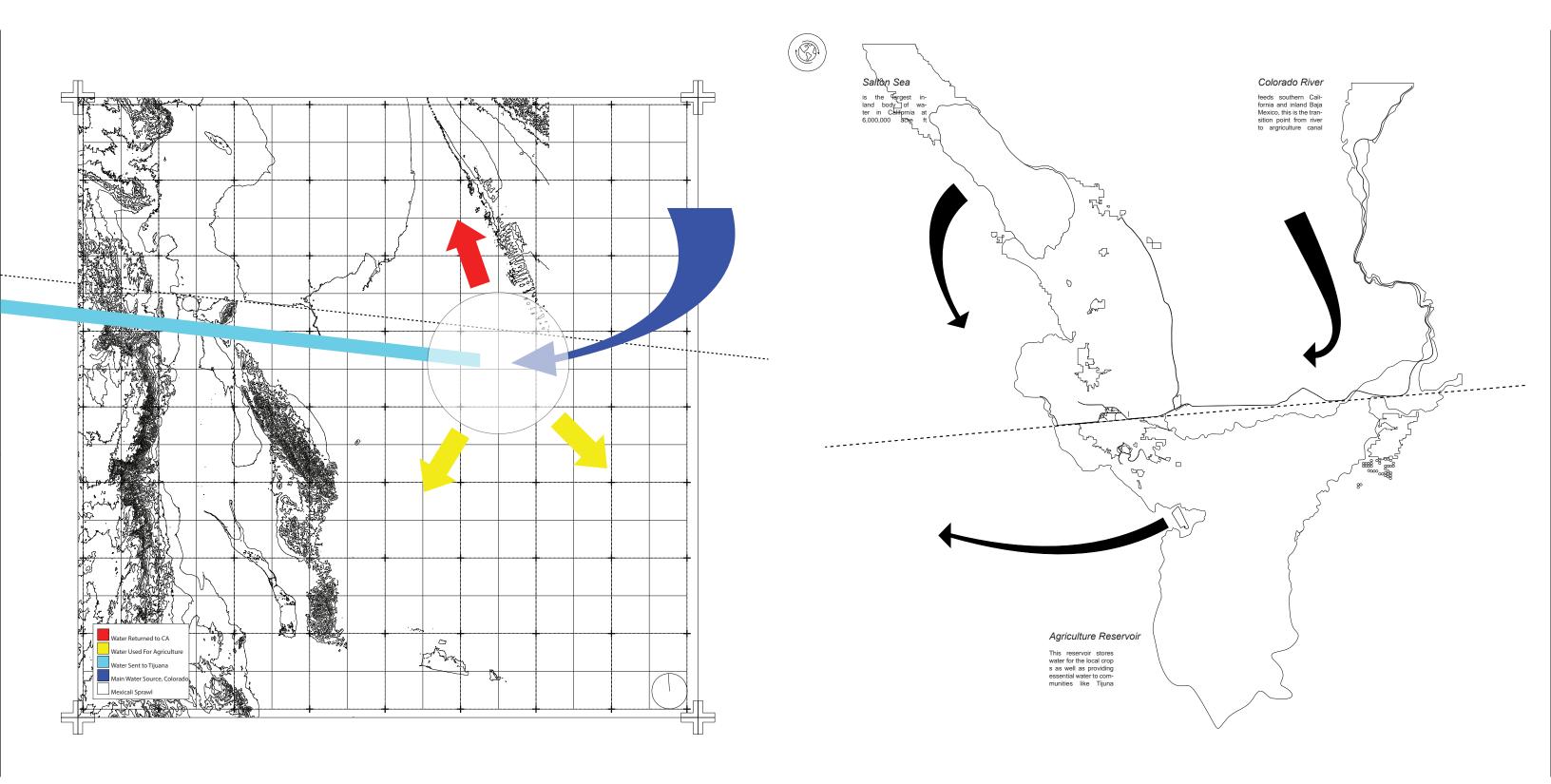


Rise in temperature would pose great threat for inland Mexicos farmland, as water wanes and heat increases drought will become more common, eventually leading to death of crops, livestock and eventually people.

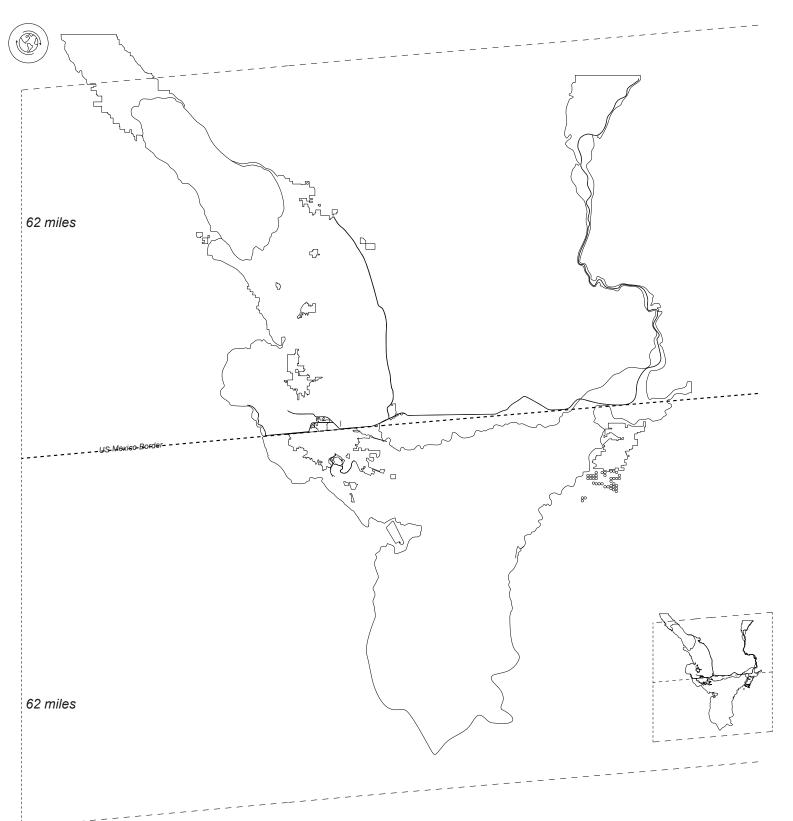
Weather for the inland region of Baja Mexico receives 4% less rain than the coastal regions already low 5% anual rainfall, making it one of the driest places in the America's.

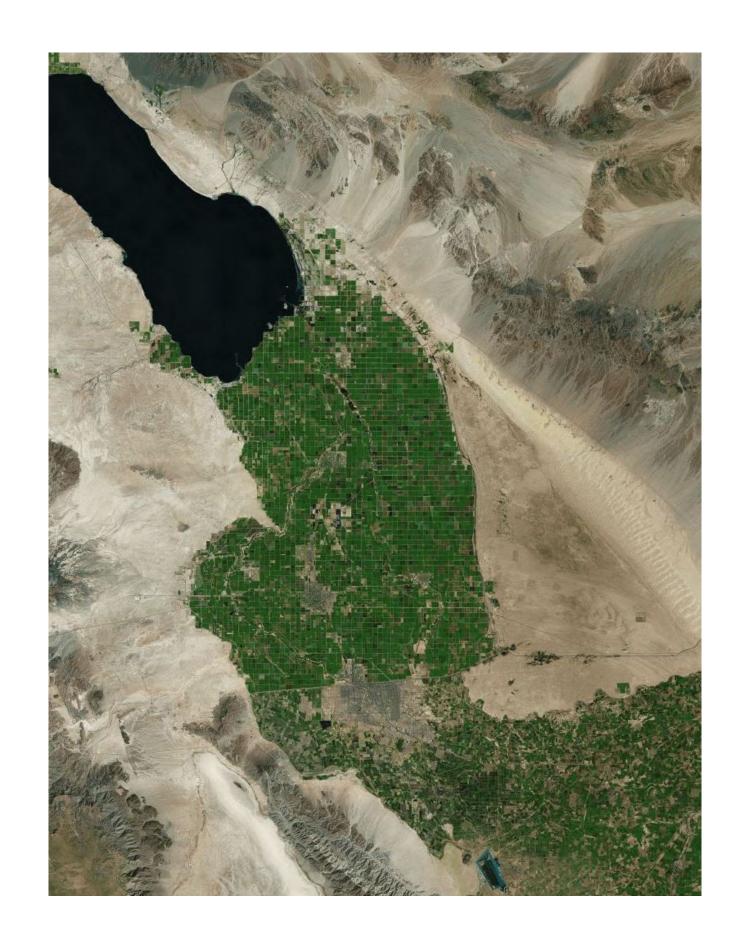
The location as a border region posses many unique climate, political, and social problems, even—though exsisting treaties between the US and Mexico exsists, there is a growing tension behind their credibility lately.

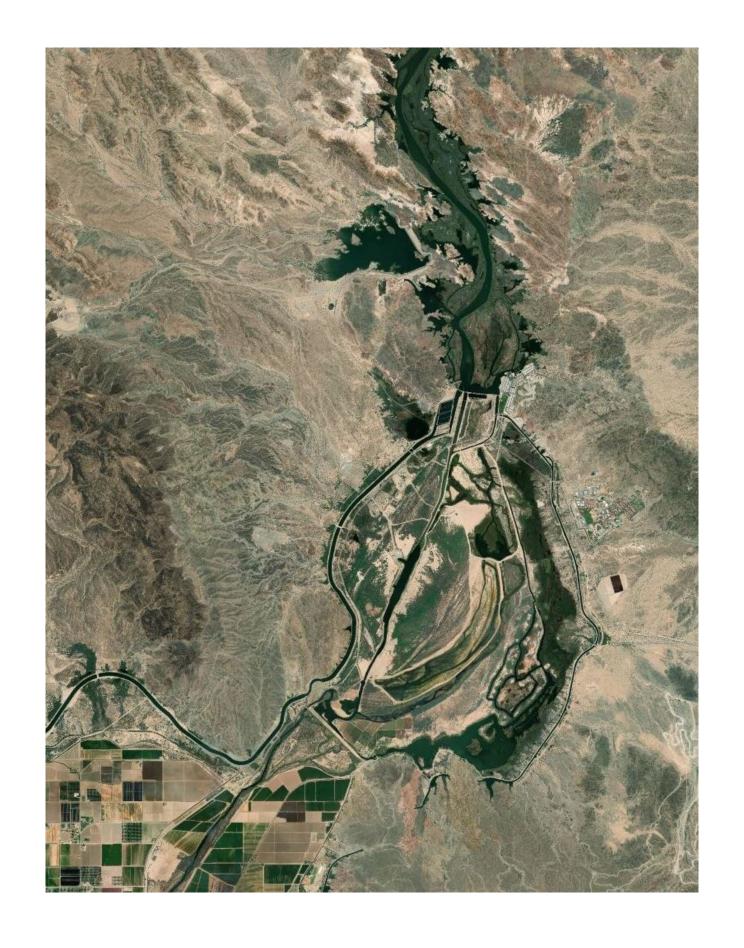












Meso Questions Meso Issues

- How is the water treaty of 1944 affecting the region of inland Baja?
 - a. Who benefits from this water treaty and are primary resources negatively impacted? (e.i., agriculture)
- What are the key components of these communities for survival?

steady power generation is essential for a community system to operate at scale, this will all depend on the cost and generative ability to produce clean power.

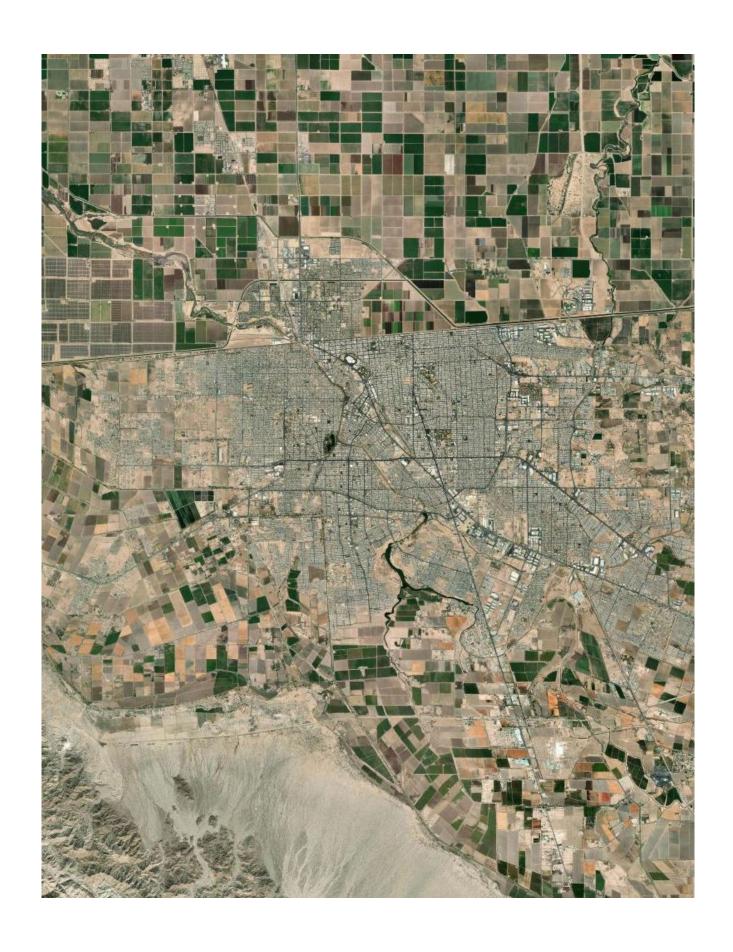
Agriculture is essential for the community and the neighboring communities who all provide on this infrastructure to survive in the desert climate. farms access to water will be essential.

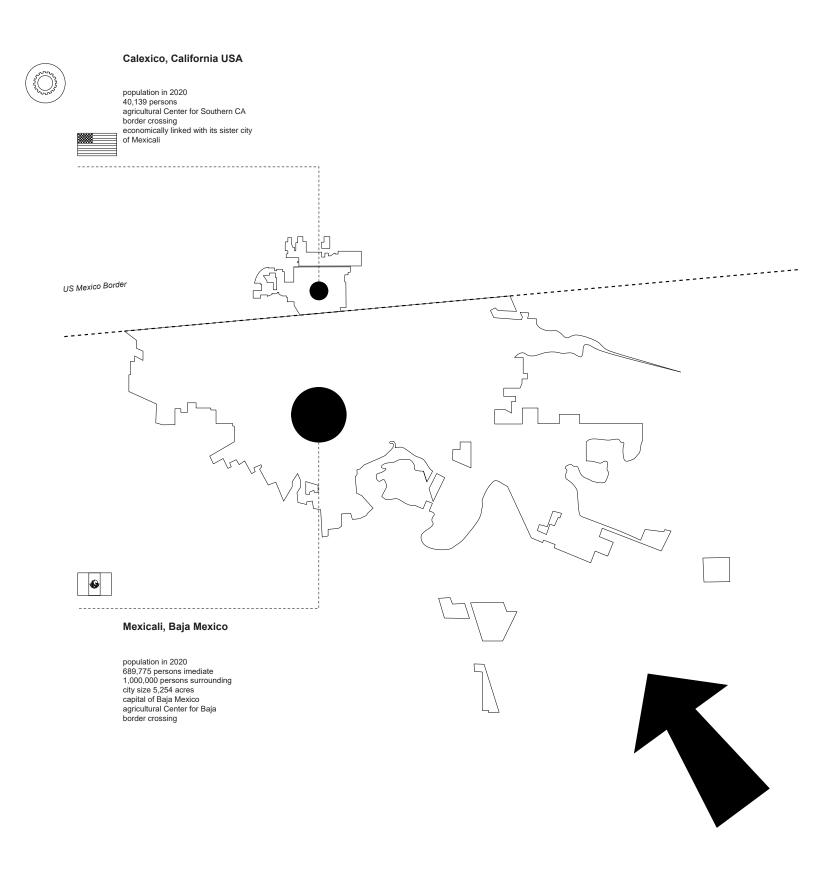
the relationship that exsists between the US and Mexico provides much of the water and material resources to the border cities as well as inland towns and villages.

industry in Mexico has been growing steadily over the past couple decades and has been one of the driving forces to mass migration the the border towns as employment opportunities arise.

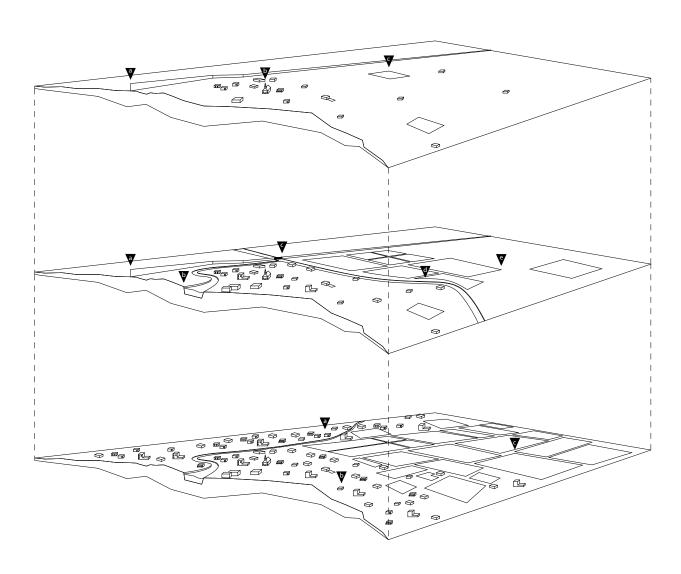
the resulting population increase and lack of funds and proper zoning leaves thousands homeless, having to fend for themselves, often forming communities of informal settelments as a result. This reaks havoc for local infrastructure and makes simple resources like water difficult to obtain.

The Site







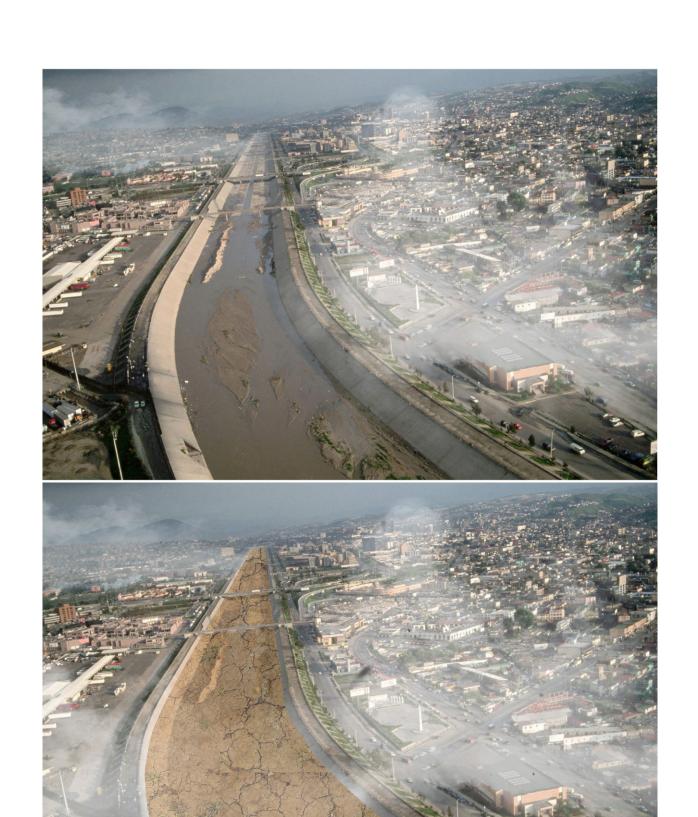


- a. border wall
- b. small settlement
- c. lack of agriculture due to water shortage
- a. border wall security increased
- b. canal bringing water from the US
- c. border crossing for water
- d. agriculture canals bring water to farther stretches of land
- e. growing agriculture due to more resources

- a. overlap of US and Mexican settlements after border is dissolved
- b. larger settlements as a result of increased resources
- c. expansive agriculture due to sufficient water supply







Micro Questions Micro Issues

- What are the vernacular building types and methods for community devel opment in this region?

a. How do locals of this region source materials for their dwellings and what are the pros and cons of these dwellings?

b. What can be learned from previous failed housing infrastructure projects and how can these failures be avoided in the future for housing projects?

mexican culture is a rich tapestry of old and new traditions, religions and customs, which strongly influences family life and comunity engangement.

population increase can cause a severe lack of housing leaving thousands without proper homes and can cause further difficulty for growing families in these conditions.

building materials are typically sourced from recycled sources and landfill; there is a sufficient lack of building knowledge and lack of abled bodies due to working demands.

water access is crucial to have a stable home environment, having running taps in the house is ideal, but as informal settlements increase this luxury vastly decreases.

proper medical and sanitation are two issues that get little to no attention; there currently is no medical infrastructure for families below the poverty line and living situatons have proven to be dangerous for children.

zoning in the border region of mexico dictates that land cannot be owned within a 62 - mile region from the border, making the prospect of home ownership less attractive and more expensive. This results in families construcing informal settlements instead to get around these zoning laws.

the location of site is unique in multiple ways, from climate change, political enviornment and lack of sufficient resources. All of these factors greatly effect the home and families ability to survive comfortably in this environment.

a. food access

- food types are made up of locally grown produce, meat and imported products
- a-2 cost of food per month

c. size of family

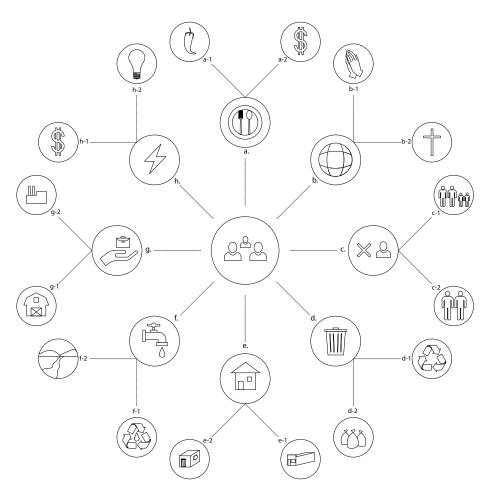
- c-1 the average size of a typical Mexican family is 3.5-4 persons
- $_{\mbox{\scriptsize c-2}}$ $\,$ newly married couples make up the rest of the housing family types

b. community and culture

- _{b-1} other religions and customs
- b-2 80% of Mexico's population is Roman Catholic

d. trash production

- d-1 recycling of trash is uncommon
- d-2 trash is often disposed of openly



e. dwelling type

- $_{\mbox{\scriptsize e-1}}$ $\,\,$ one million dwellings were constructed for the housing crisis they failed
- e-2 informal settlements spring up as a result

g. employment

- g-1 farms make up 80% of the current employment in northern Baja
- $\,$ g-2 $\,$ other industries in automotive, electronics and consumer goods supplement

f. water access

- f-1 naturally occurring water source
- f-2 water recycling can boost water accessibility

h. power access

- h-1 price per month for power
- h-2 a large percentage of families are without electricity

Comunity System



Housing Artifacts



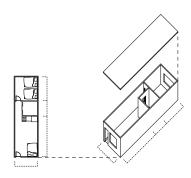
USA Single Family Home Single family home

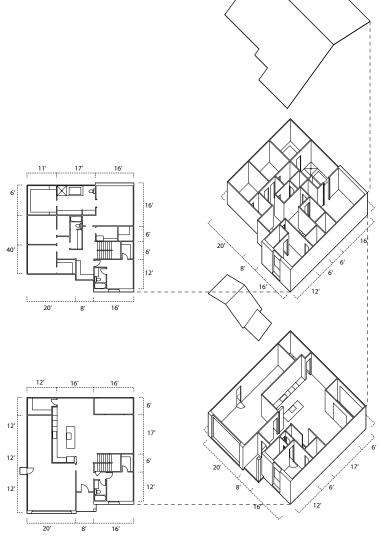
USA dwelling

- 84 91 gallons of water useage per day
- the average household uses 6,000 kWh per year with an average of 3 residents
- individuals use 2,000 kWh per year
- building cost per sq ft is \$225 350
- the median housing cost is \$699,000
- the average size of a new home is between 2,728 3,581 sq ft
- the average apartment size is 877 sq ft with a cost on average of \$2,237 per
- the average land cost per acre in California is between \$5,000 12,000

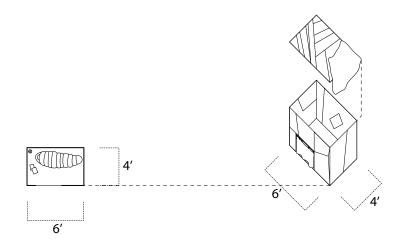
Mexican dwelling

- utilities for one month in a 900 sq ft apartment is 939 MXN
- low-income homes range from \$30 middle-income homes \$60 and high-income \$100 per sq ft
- informal settlements stats unknown
- low-income home 320 sq ft
- cost to rent a 900 sq ft home per month \$8,456 21,089 MXN
- cost to rent a 480 sq ft home per month \$6,309 10,210 MXN
- the cost to buy a home per sq ft \$1,072.55 1,994.74 MXN

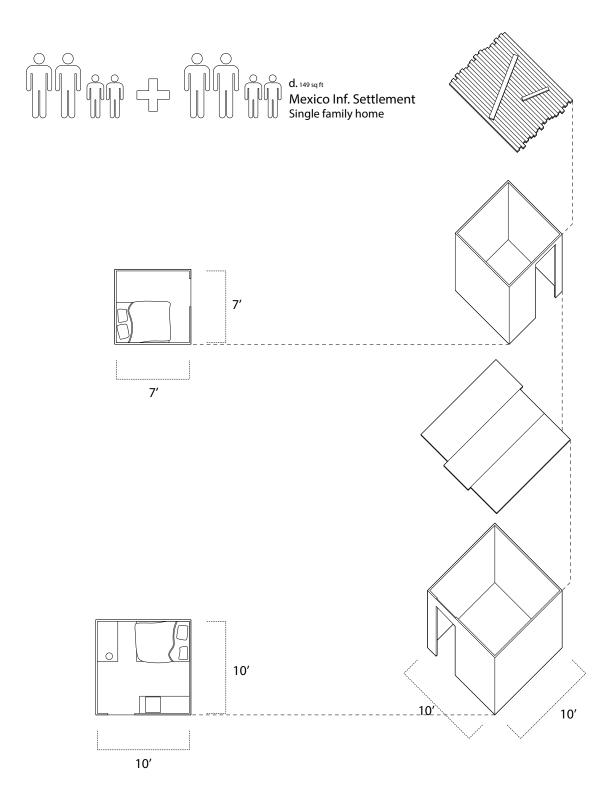


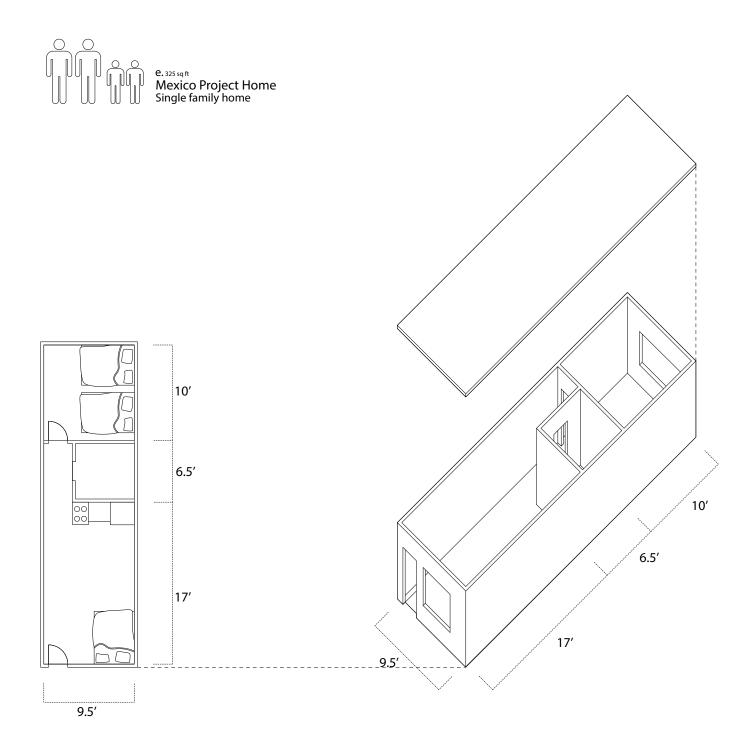




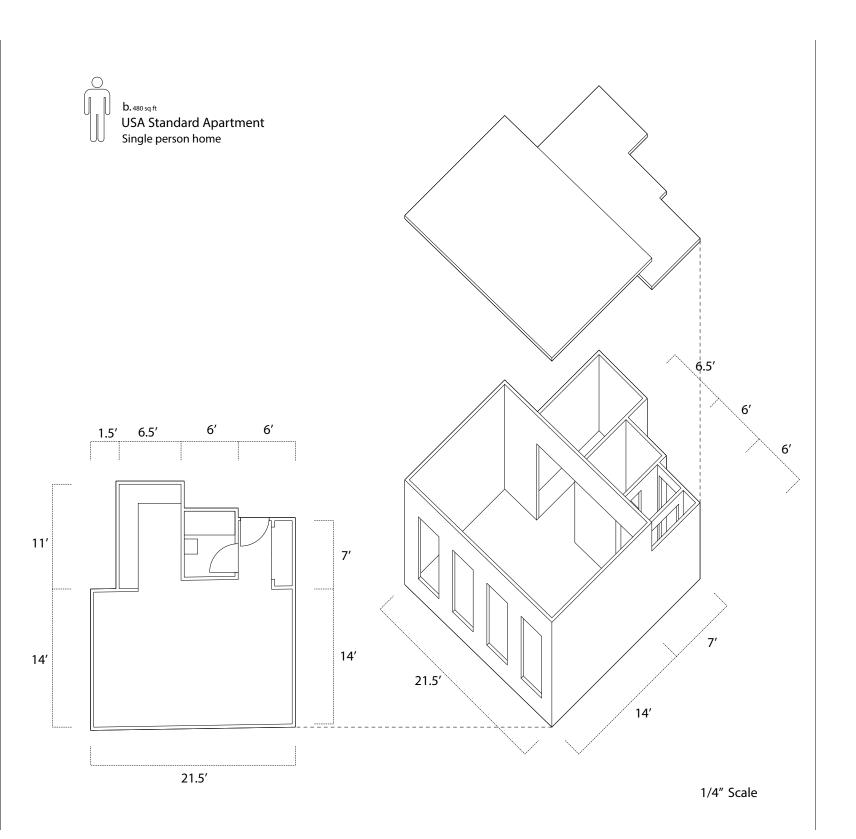


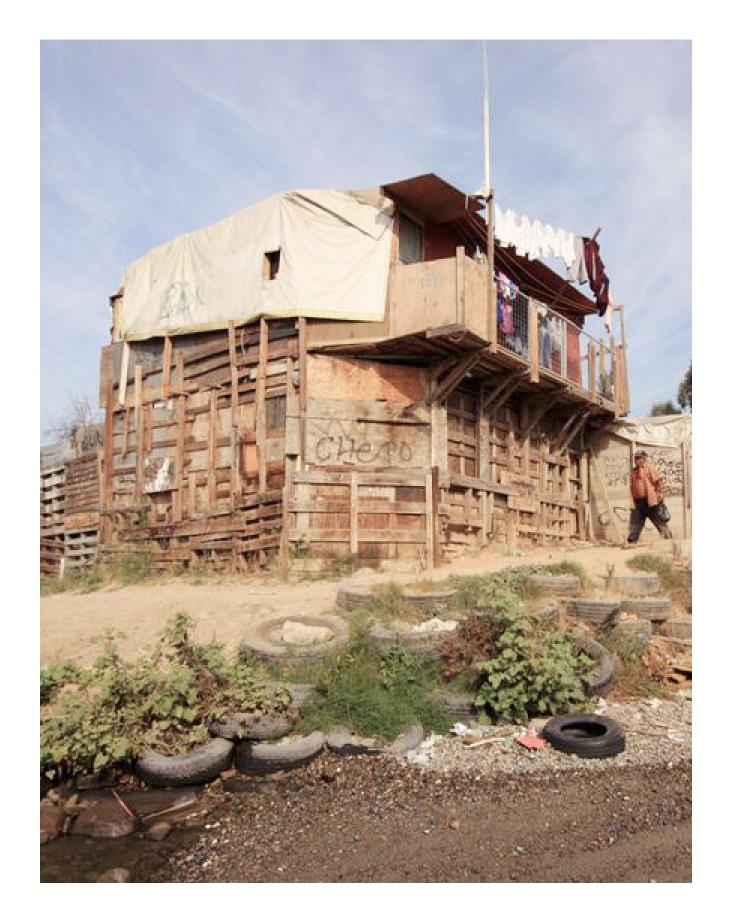
1/4" Scale 1/16" Scale

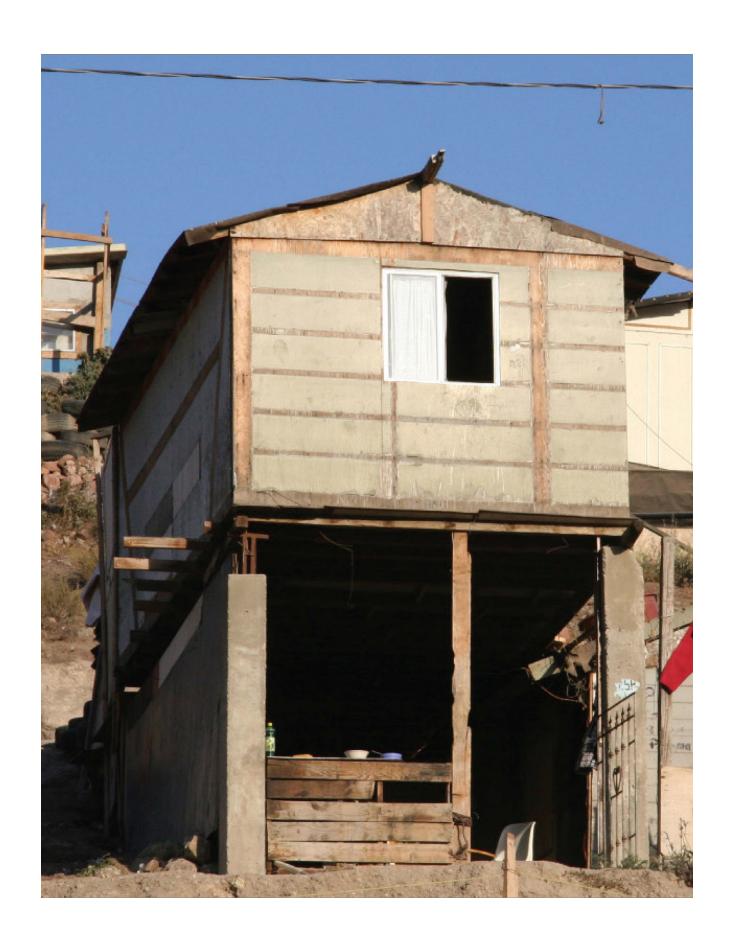


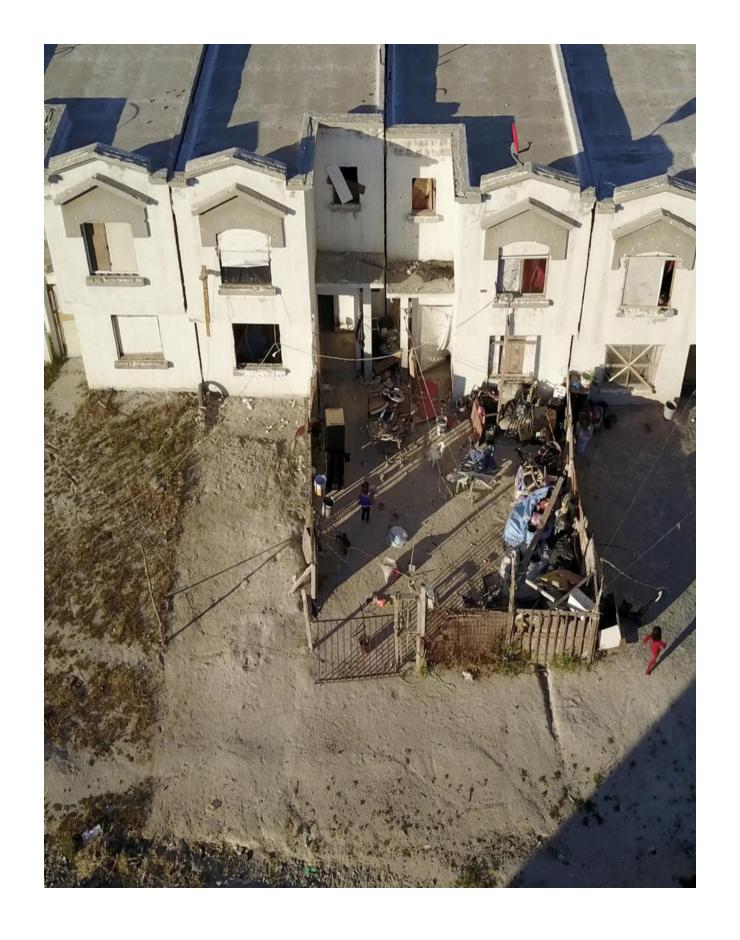


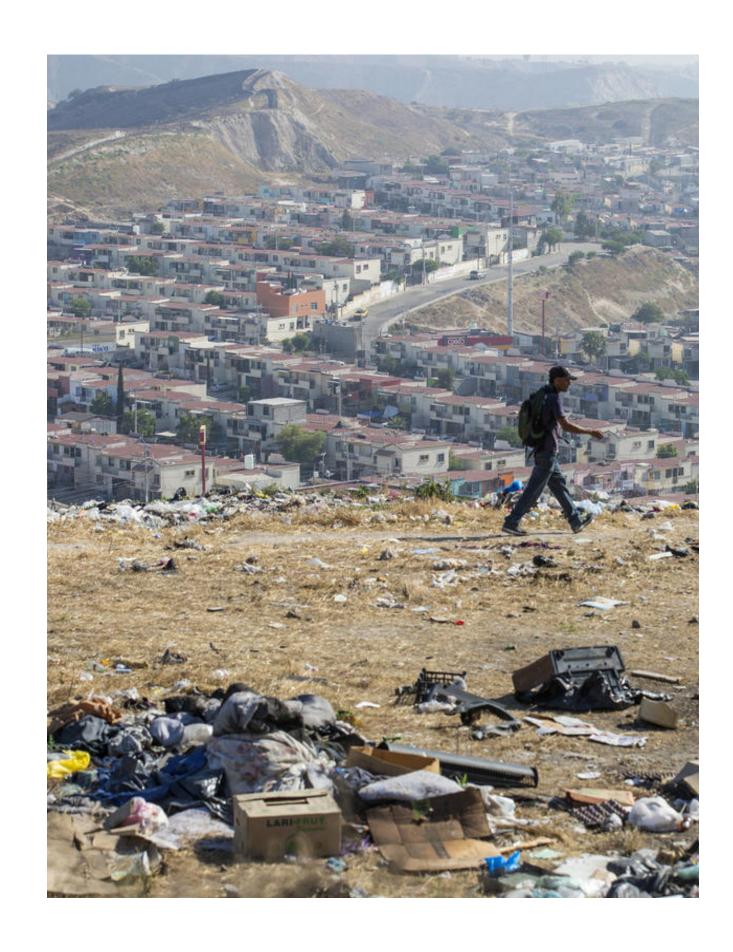
1/4" Scale

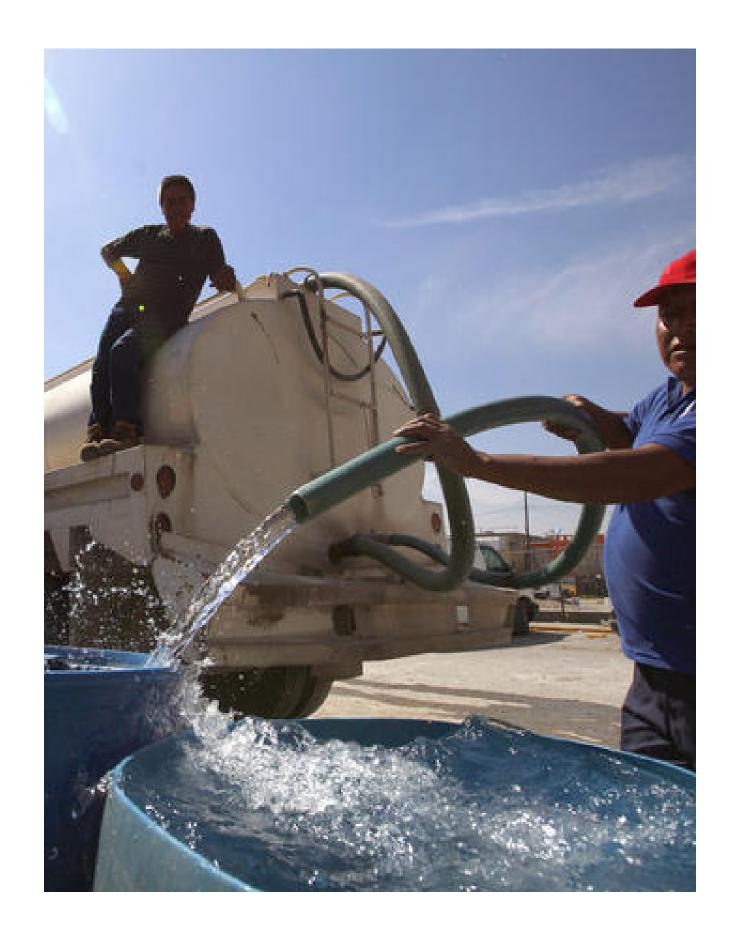


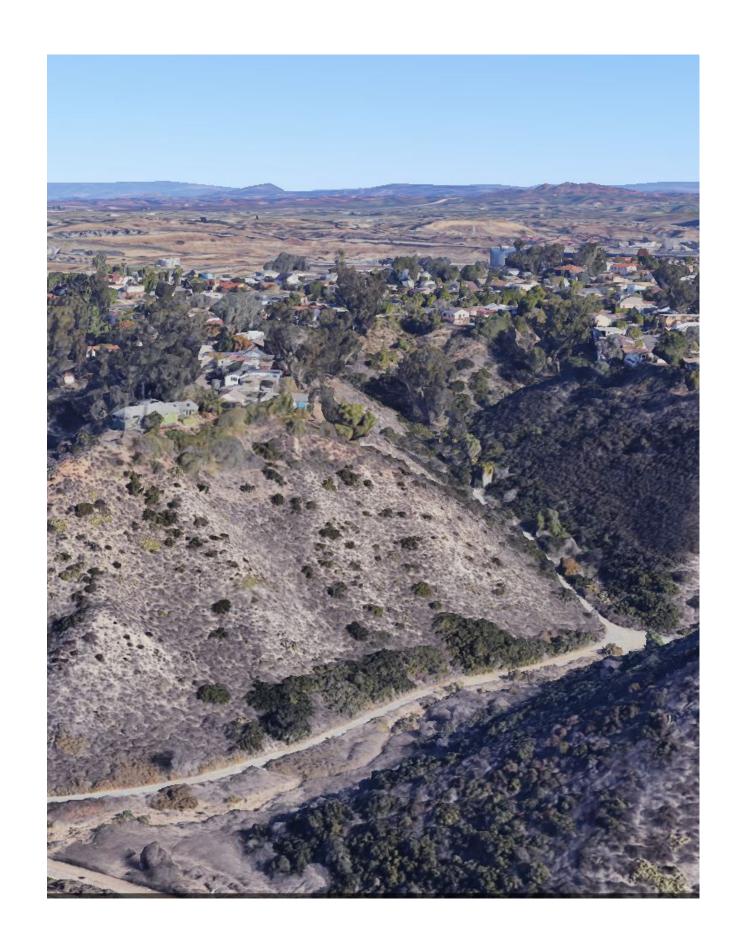


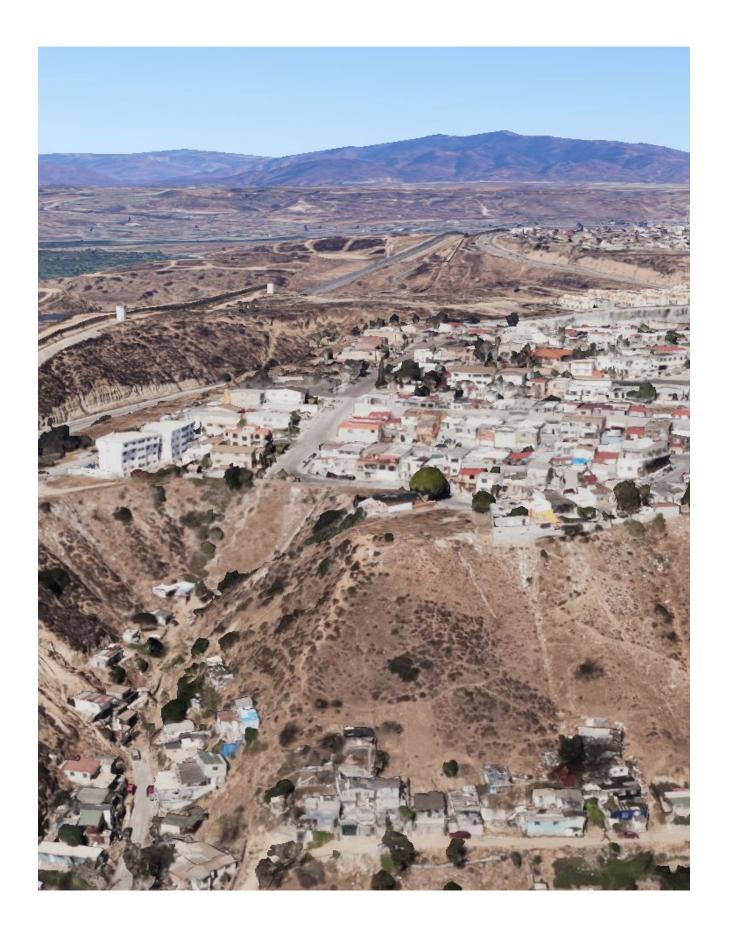




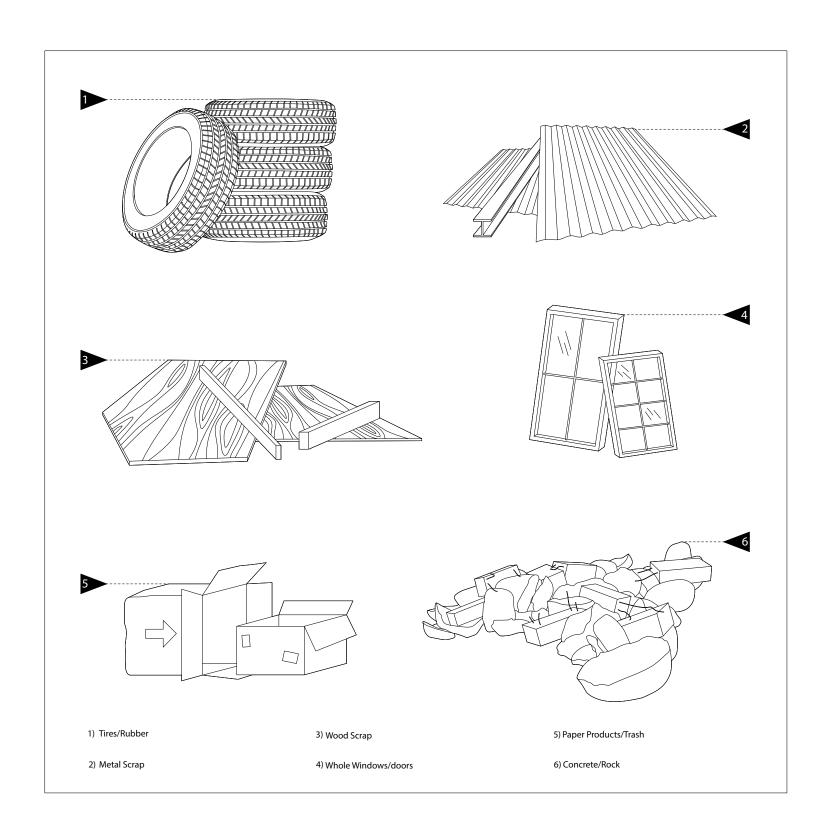


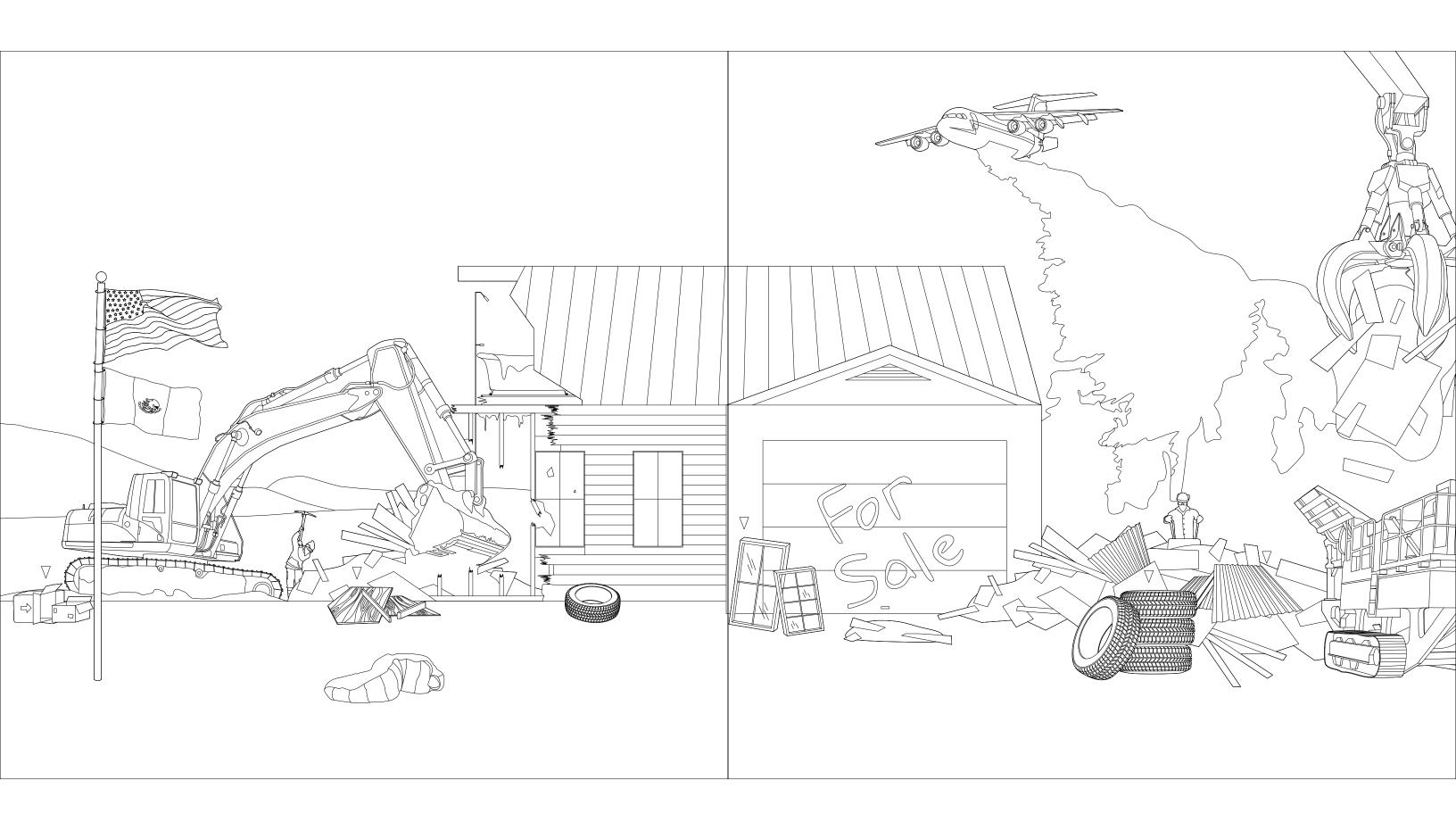


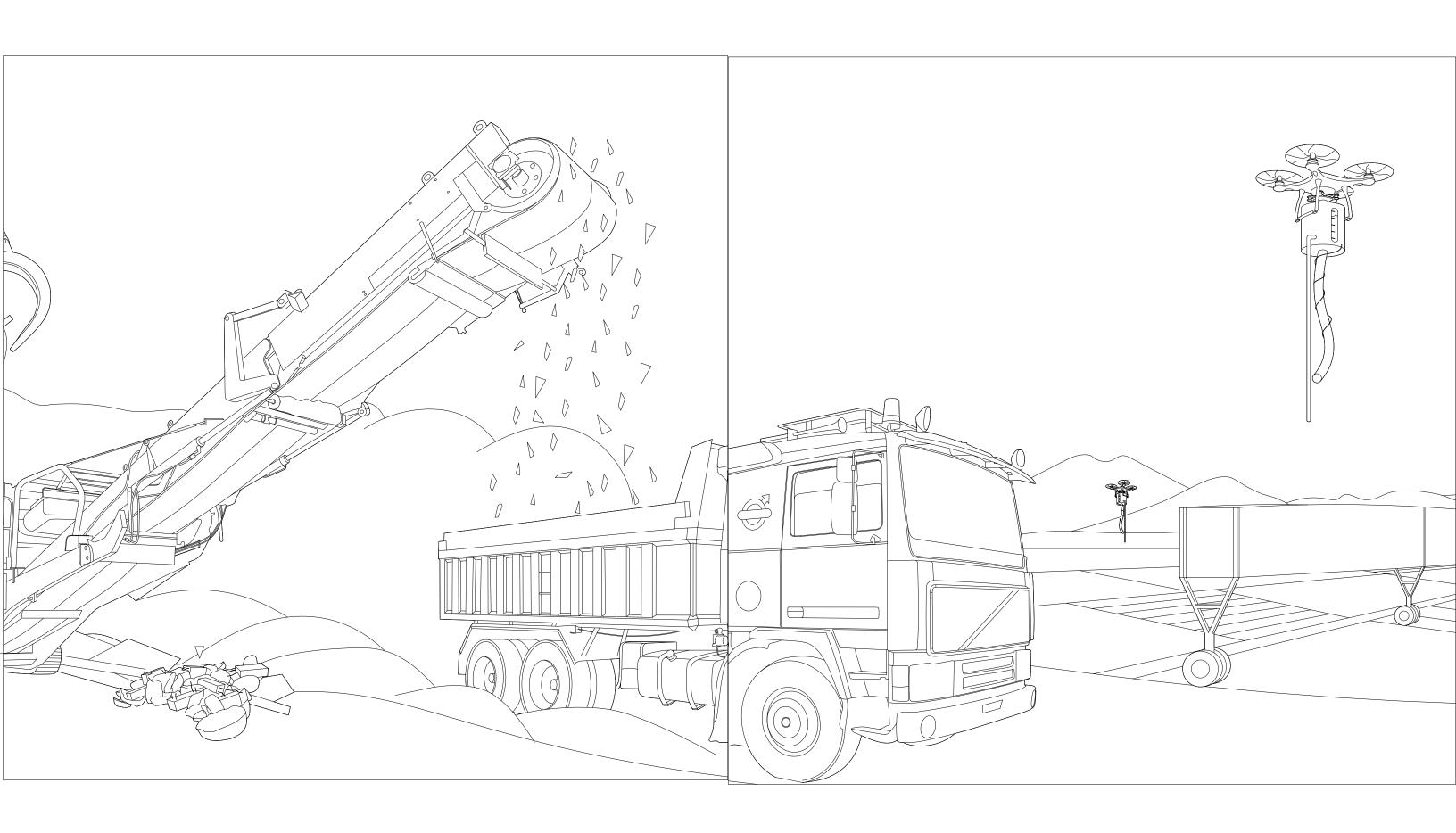


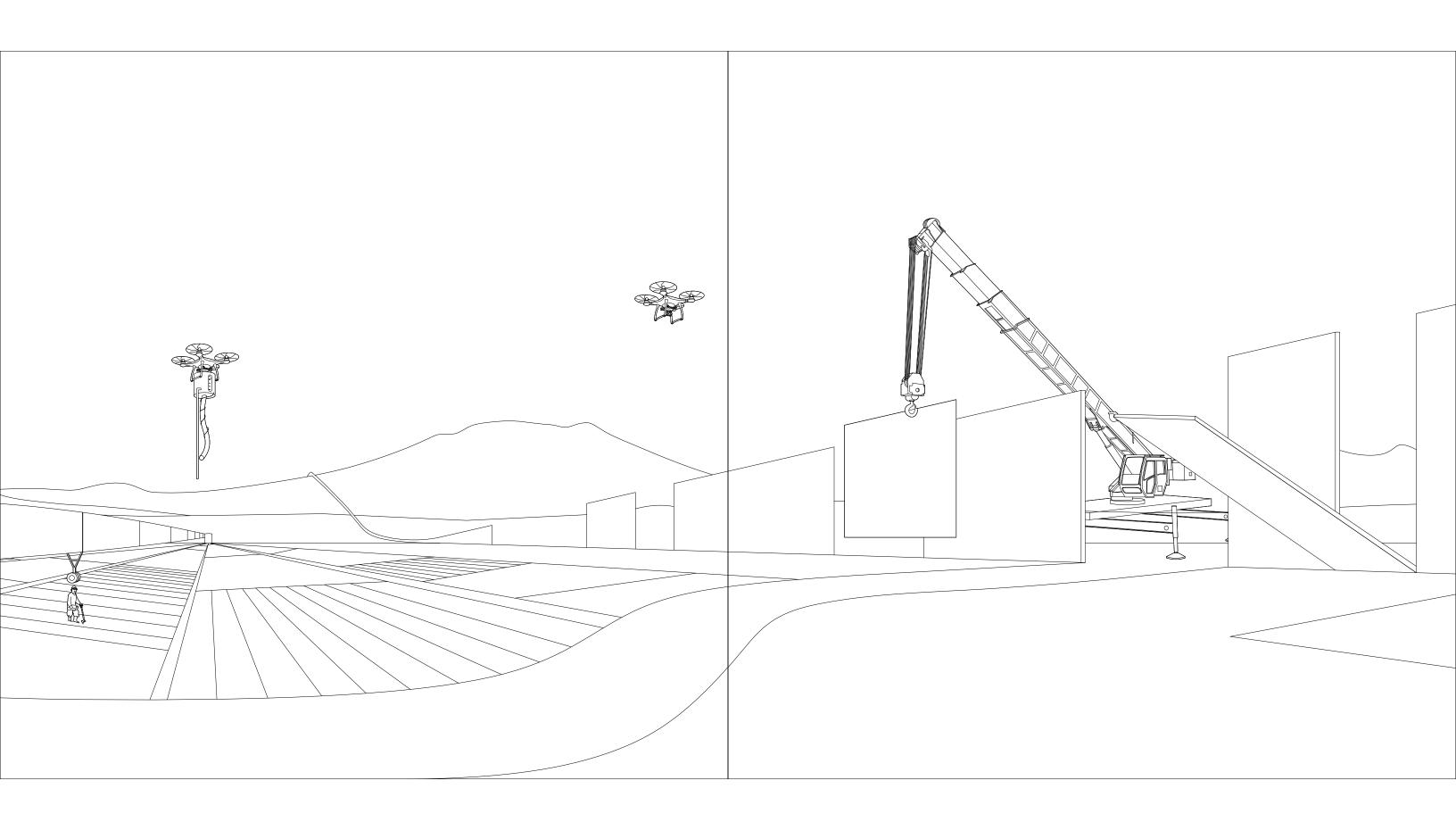


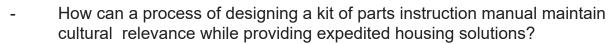
Production Material Artifcts



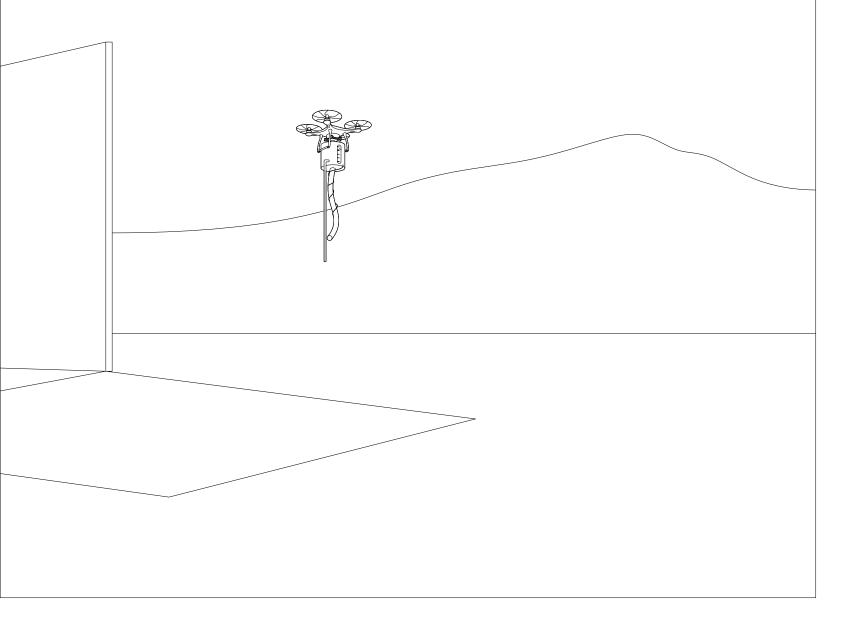








- a. What are the characteristics of "moral" housing pertaining to cultural dogma and social stigmas for this region?
- b. How can low tech vernacular building methods be modified for a large-scale fabrication boom?
- c. How can high-tech fabrication methods merge with vernacular low tech building traditions to better preserve culture while combating the housing crisis at scale?



Program

Design a process in which manuals could be developed in other regions of the world as well.

Meso Scale Infrastructure

Comprehensive Kit-of Parts

1. **Spatially Options**

- a. Localized culture
- b. Family Type
- c. Community Type

2. Fabrication and Construction

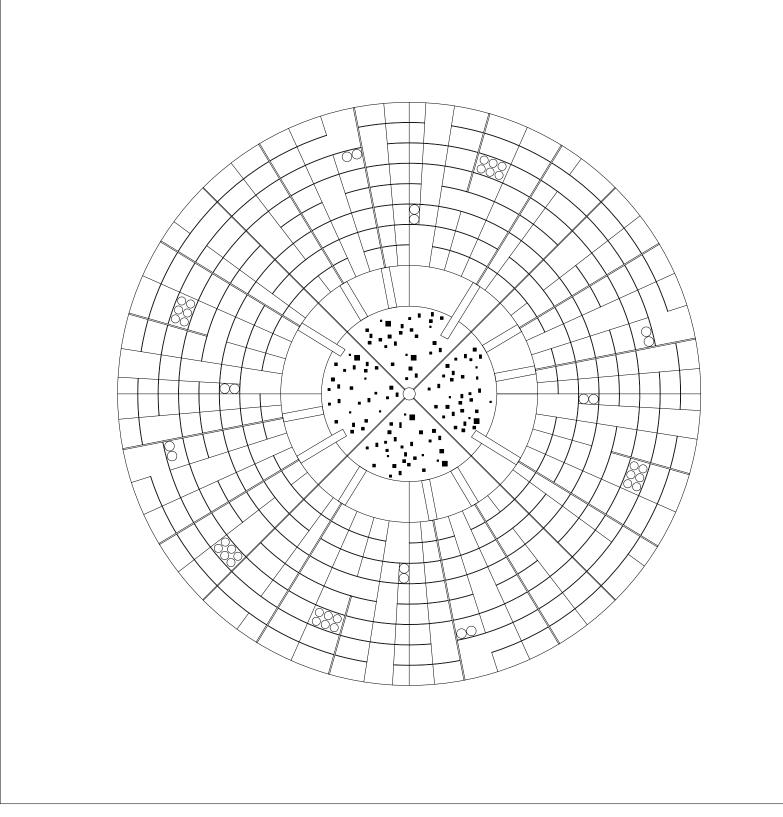
- a. Localized Building Materials
- b. Material augmentation
- c. Parts Fabrication
- d. High and Low-Tech Merge
- e. Expansions

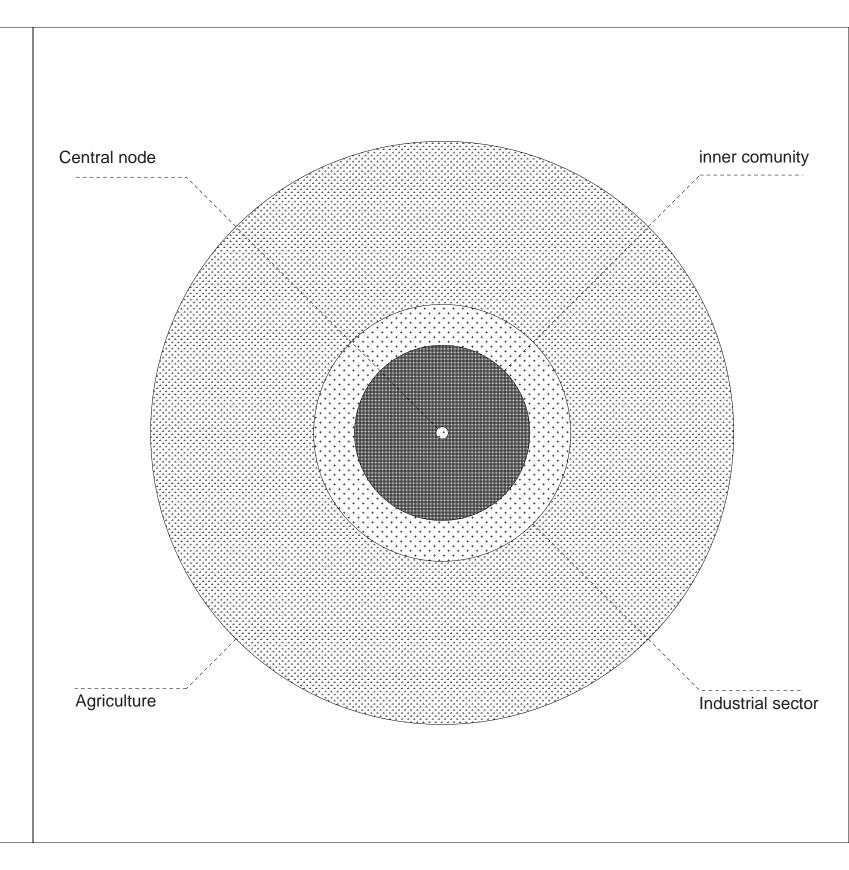
3. **Maintenance**

- a. Upkeep/ Detailings
- c. Replacement
- c. Locally relevant materials

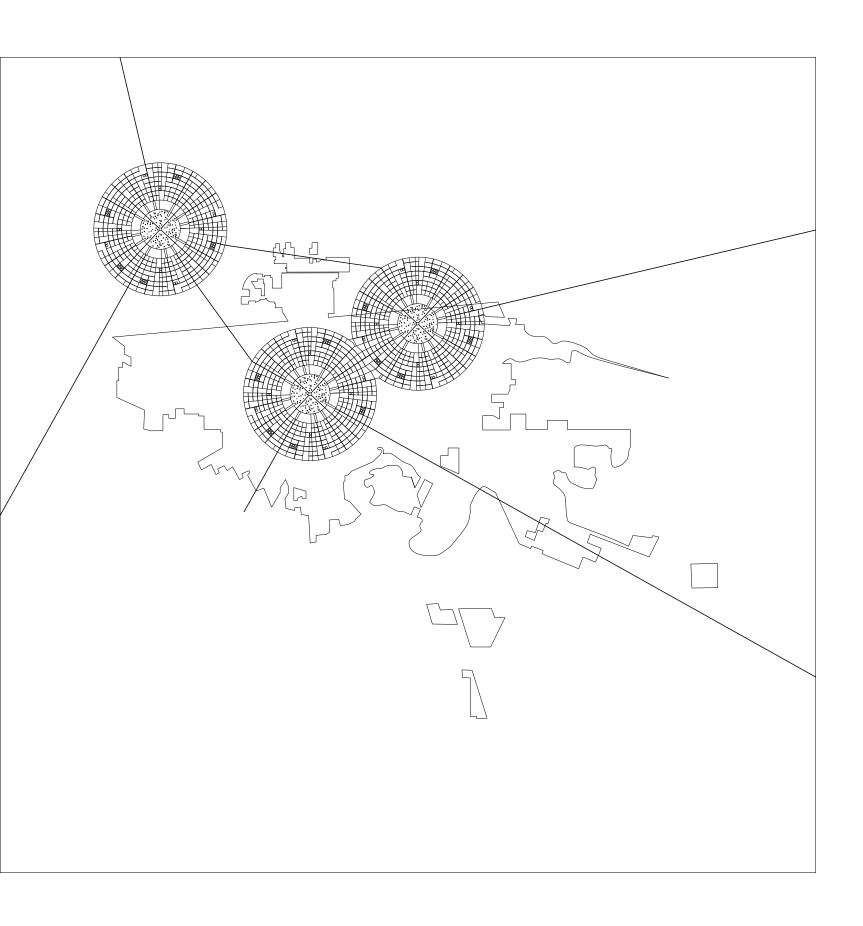
Intended Outcomes

- 1. Manual
- 2. Physical mock-ups of detailed system/ modularly developed system





Policies on Ownership



Individual Ownership

- -water access
- -building material/dwelling
- -access to local resources

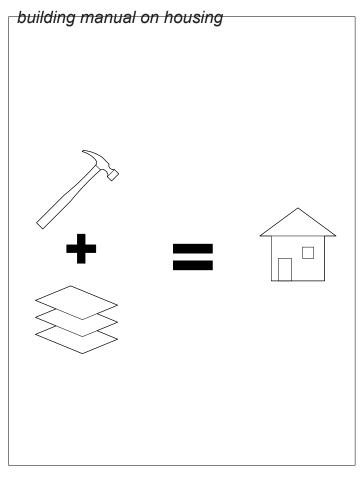
Communal Ownership -agriculture resources

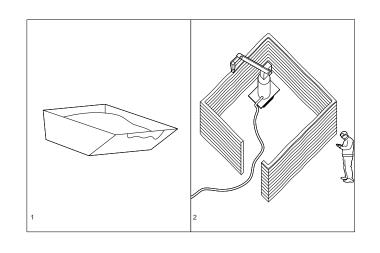
- -land access
- -employment

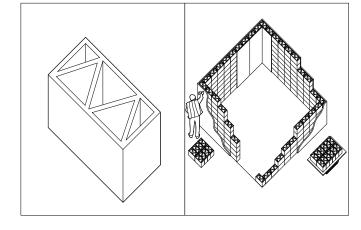
Municipal Ownership -border country

- -overall water access
- -treaties

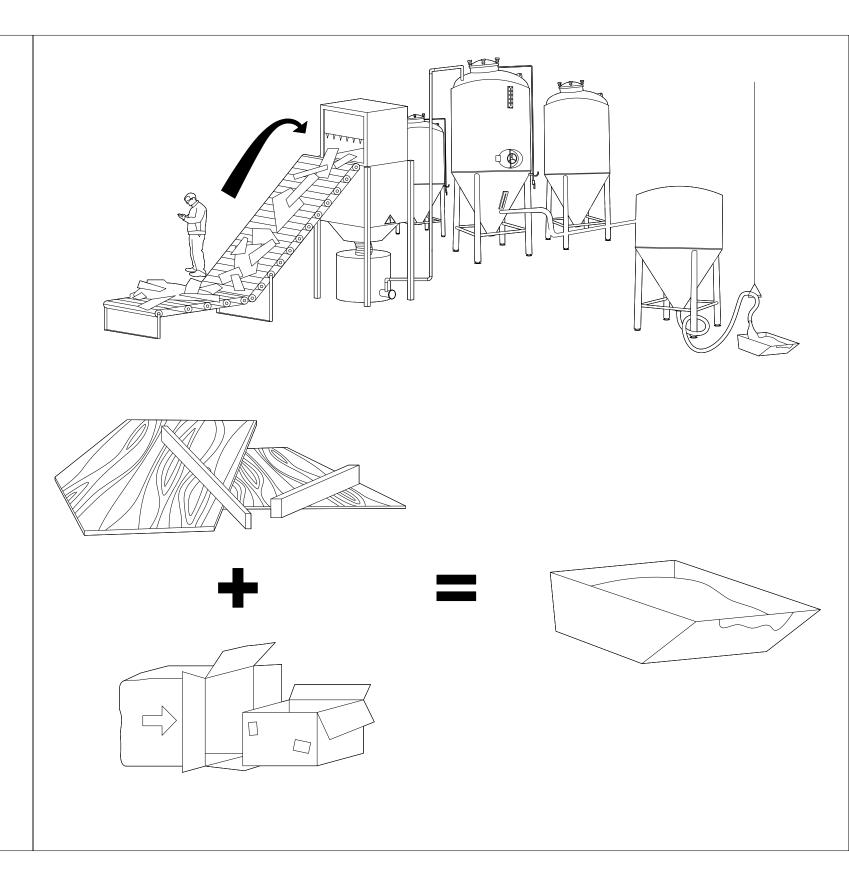
Kit of Parts

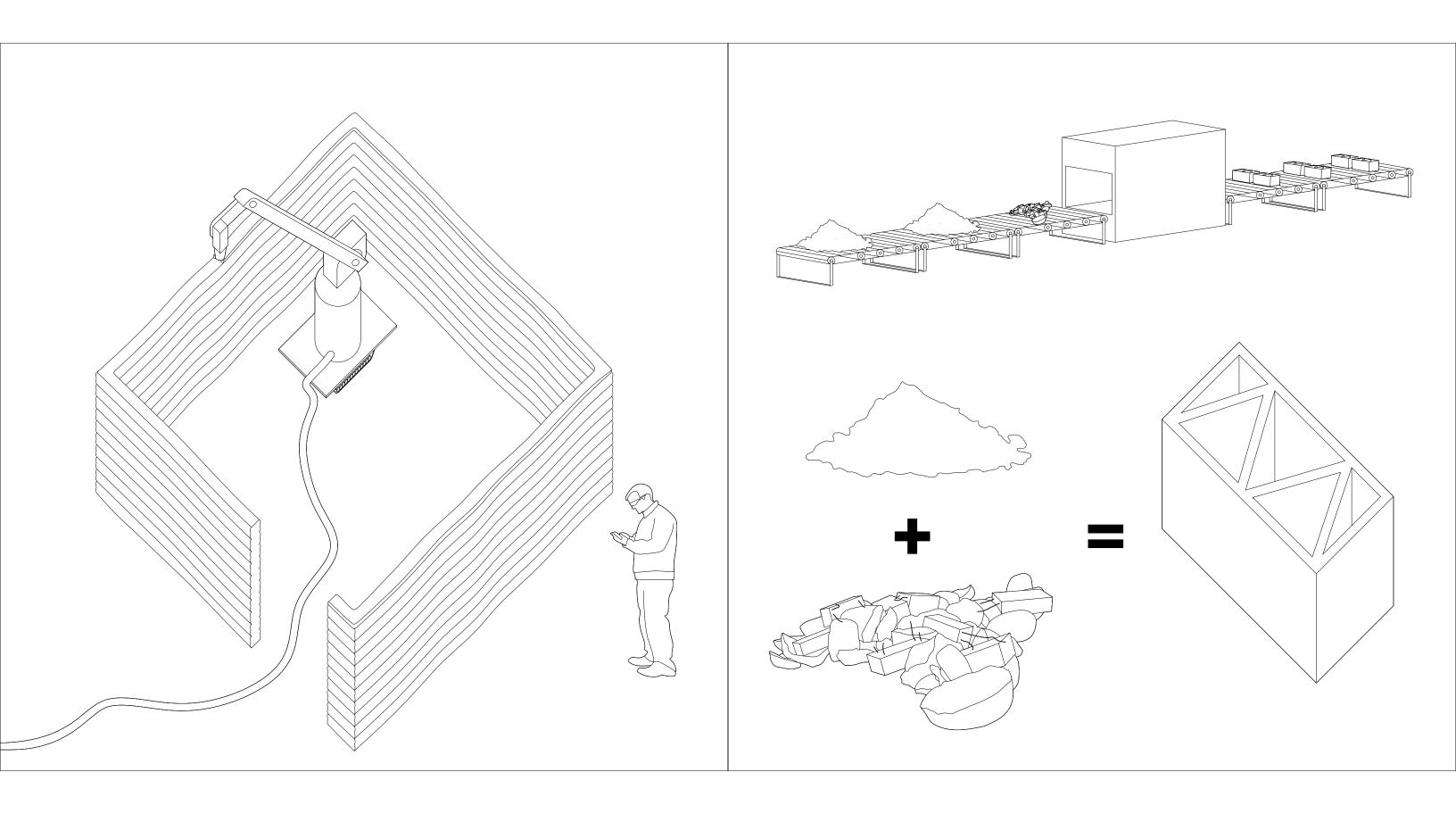


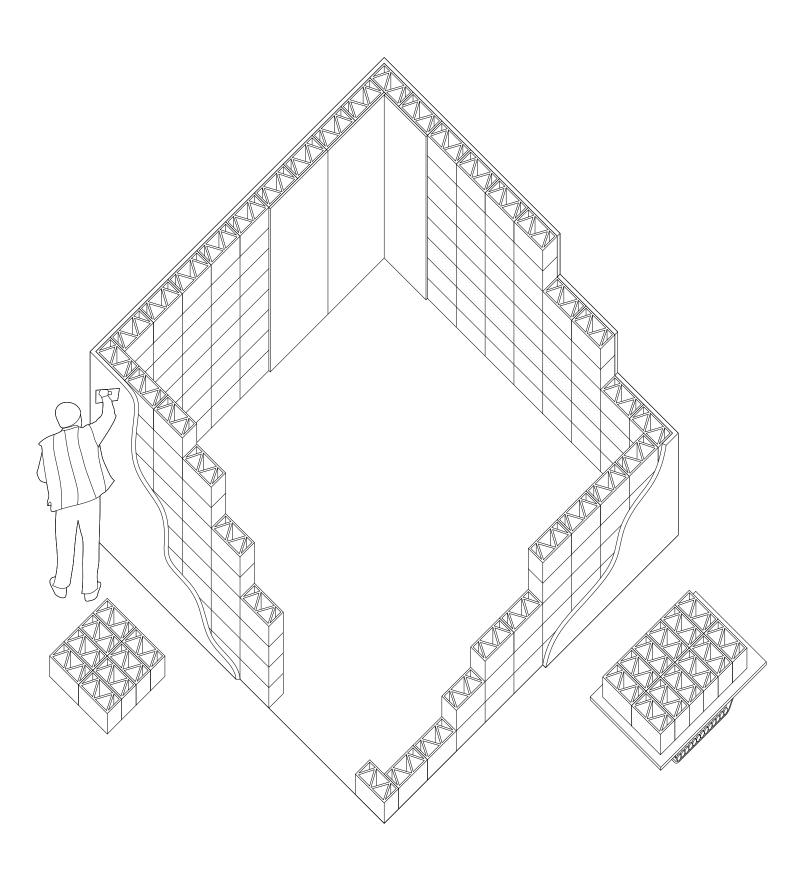




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