

SUBTOPIA

REINVISIONING THE SUBURBS

DISRUPTION IN SUBURBIA

1800

1850

1900

1950

2000

2060

Dutch Hill
New York City

Ancient Alexandria
Alexandria, Egypt

Heights
Houston, Texas

Garden City
England

Linear City
Madrid, Spain

Metropolis
New York City

The Radiant City

Broad Acre City

EUR
Rome, Italy

Levittown
Levittown, Pennsylvania

Agricultural City
Japan

Image of a City

The Woodlands
Woodlands, Texas

Conventional City

Regional City

Infinite City
San Francisco, California

Long Island Rezoned

LEVEL 1

POWER

LEVEL 2

WATER

LEVEL 3

FOOD

SUBTOPIA

POLITICS
War, Economy, Social Inequality



HEALTH
Congestion, Air Quality,



TECHNOLOGY
Cars, Trains, Interstate



ENVIRONMENT
Natural Disasters, Clean Energy



PANDEMIC



SUBURB

sub·urb | /'səbərb/

sub: beside, smaller, less than
urb: city

An outlying district of a city, especially a residential one, or a smaller community adjacent too or within commuting distance of a city

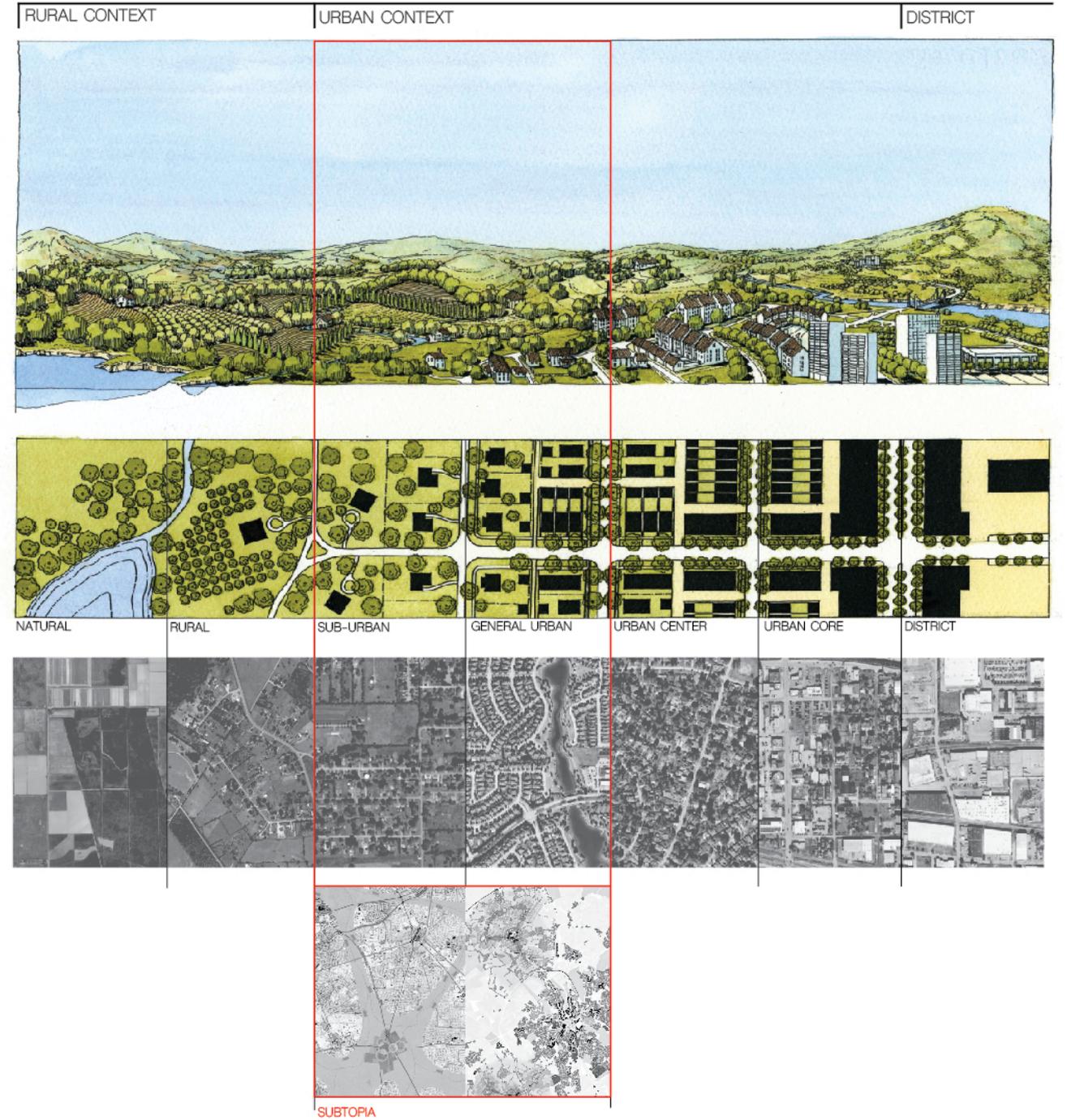
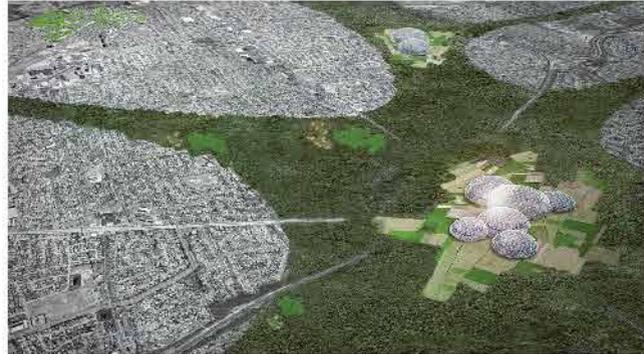


SUBTOPIA

sub·to·pia | səb'tōpēə \

sub: beside, smaller, less than
utopia: no place, no where

A dynamic residential and mixed use area that is self efficient, cohesive, and evolves all aspects of life



PROPOSED SUBTOPIA

Subtopia will be established South of Houston, Texas in an area known as Pearland. These areas are slowly being developed with residential neighborhoods, and commercial centers. Suburbia is a dynamic system that will revolutionize everyday life and help resolve a number of issues facing the greater Houston area. Pearland is an ideal area to explore due to its large neighborhood systems mixed with undeveloped farmland.

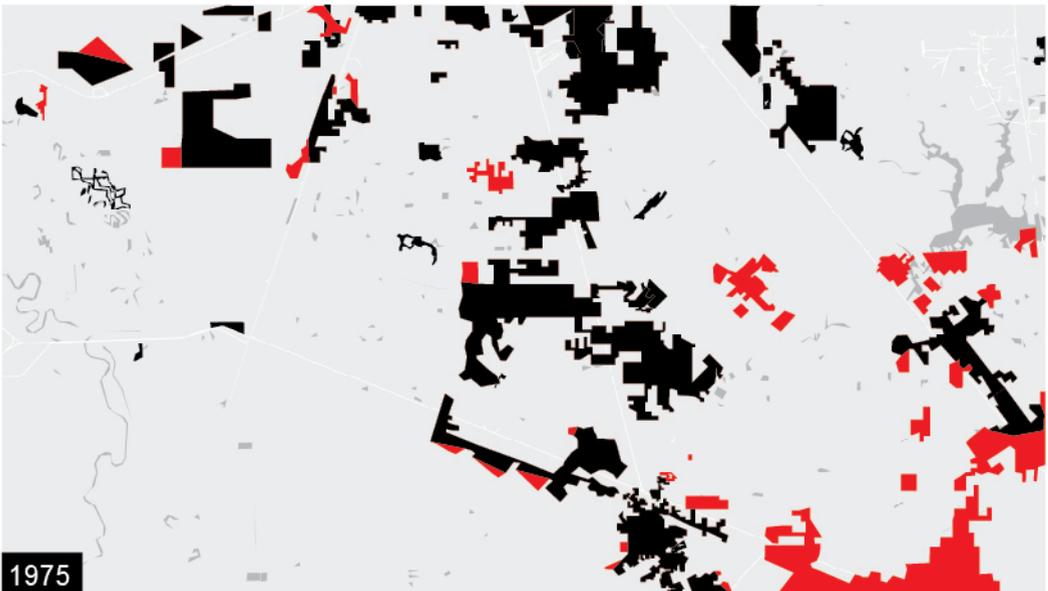
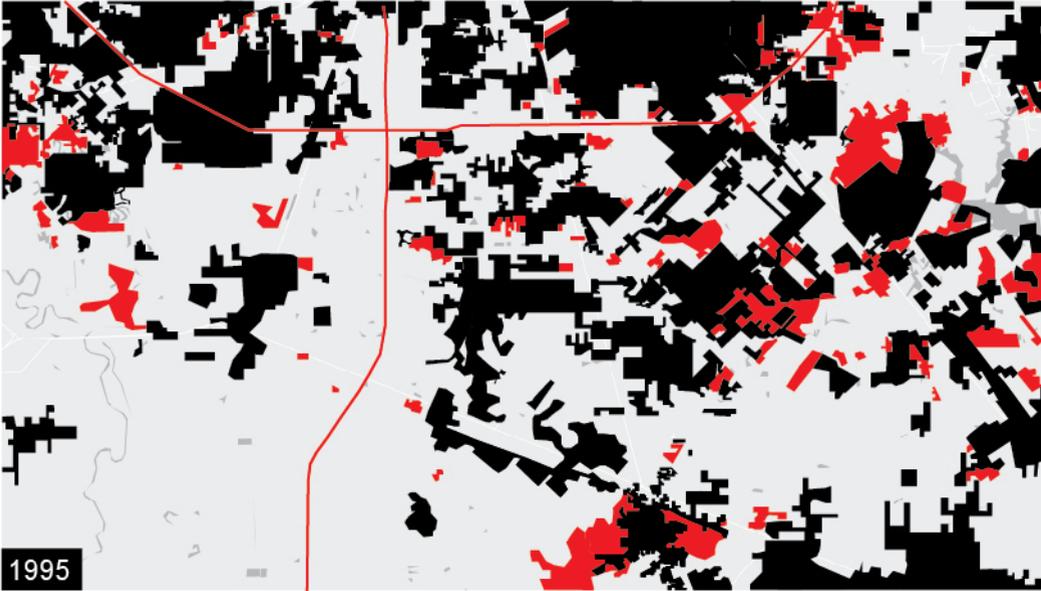
■ ESTABLISHED DEVELOPMENT

■ NEW DEVELOPMENT

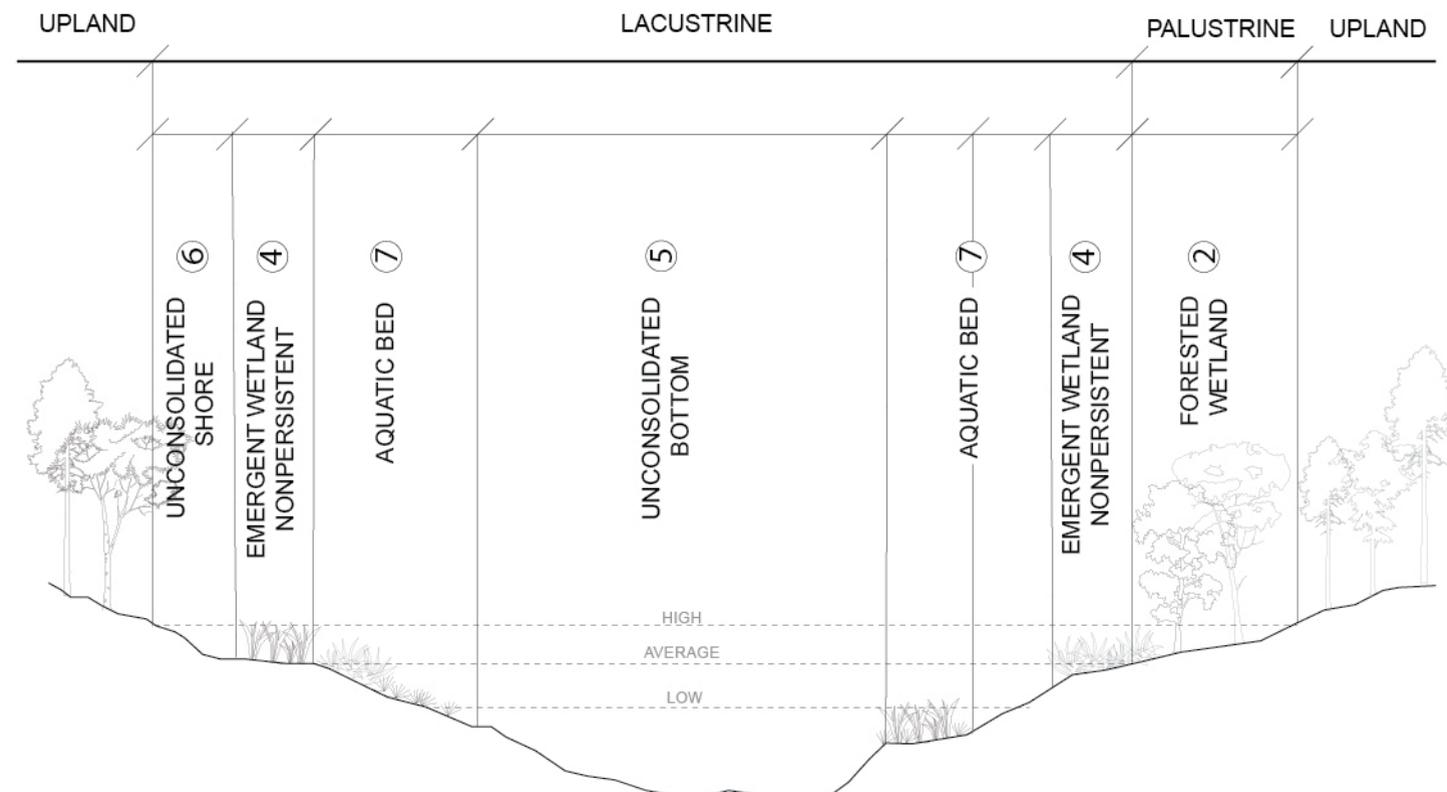
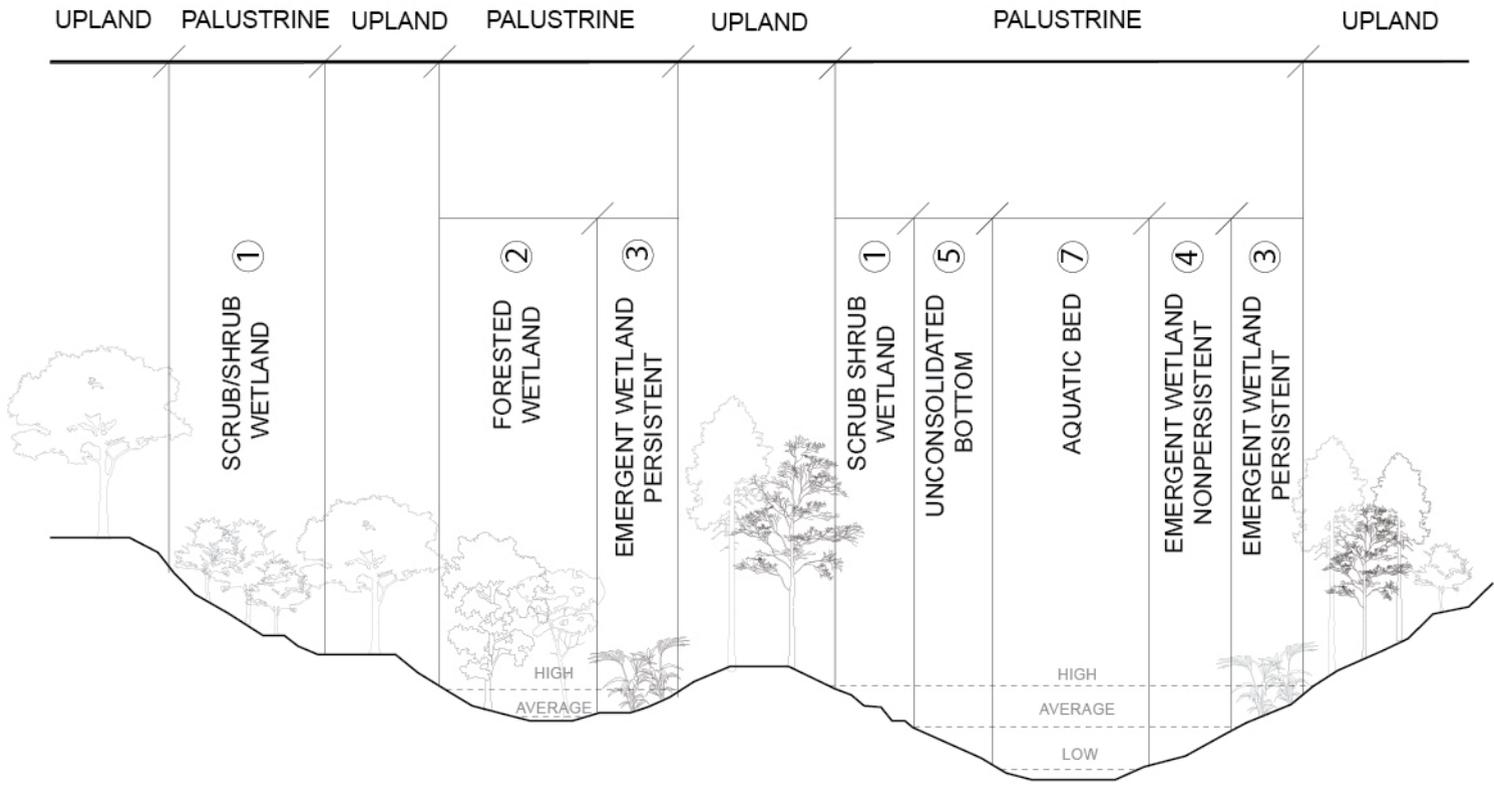


SITE/ PEARLAND DEVELOPMENT 1965-2015

- ESTABLISHED DEVELOPMENT
- NEW DEVELOPMENT



THE WETLANDS

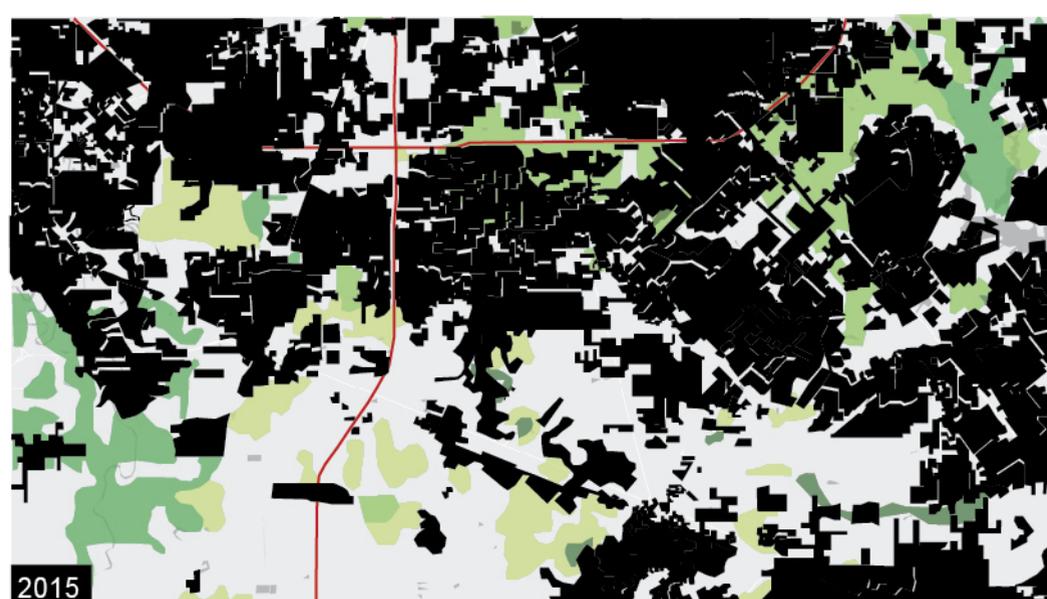
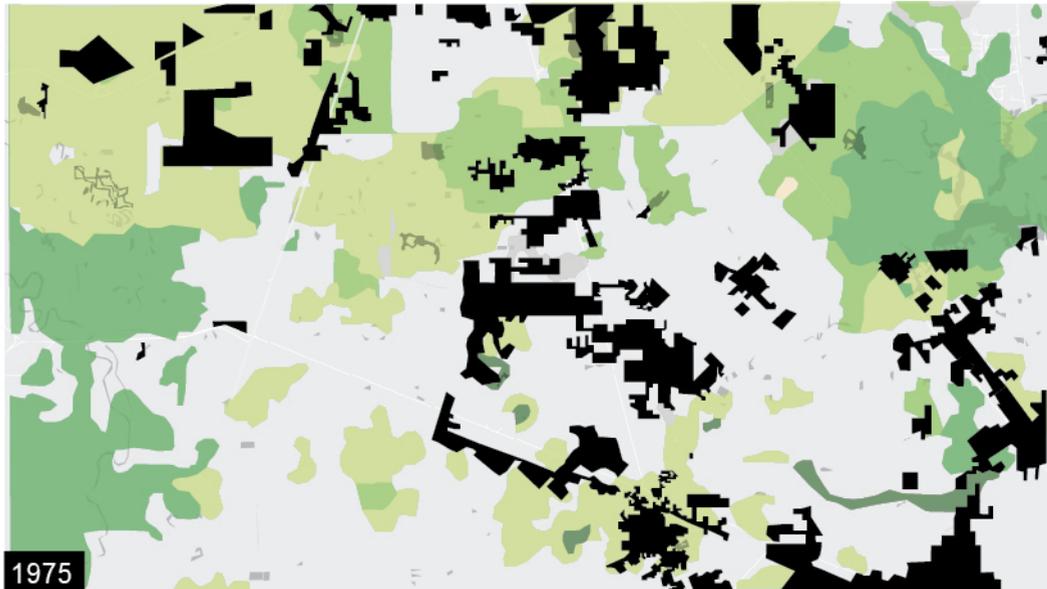
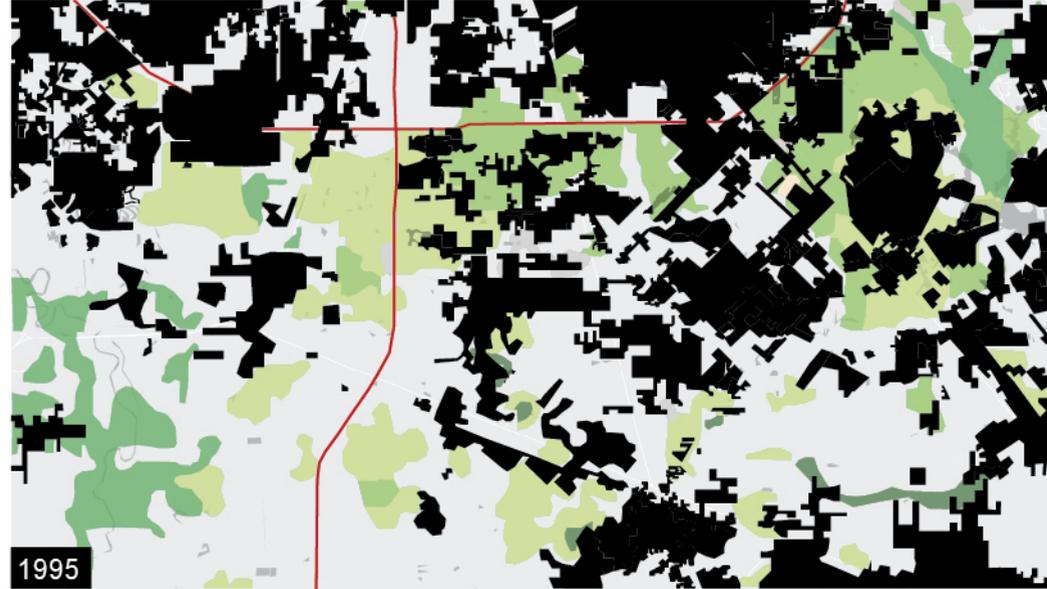


- SCRUB/SHRUB WETLAND ①
- FORESTED WETLAND ②
- EMERGENT WETLAND PERSISTENT ③
- EMERGENT WETLAND NONPERSISTENT ④
- UNCONSOLIDATED BOTTOM ⑤
- CONSOLIDATED SHORE ⑥
- AQUATIC BED ⑦



PEARLAND WETLAND DEVELOPMENT 1965-2015

- URBANIZED AREA
- UPLAND FOREST
- BOTTOMLAND FOREST
- COASTAL PRAIRIE: HIGH INTEGRITY
- COASTAL PRAIRIE: MODERATE INTEGRITY
- PRIME FARMLAND SOIL

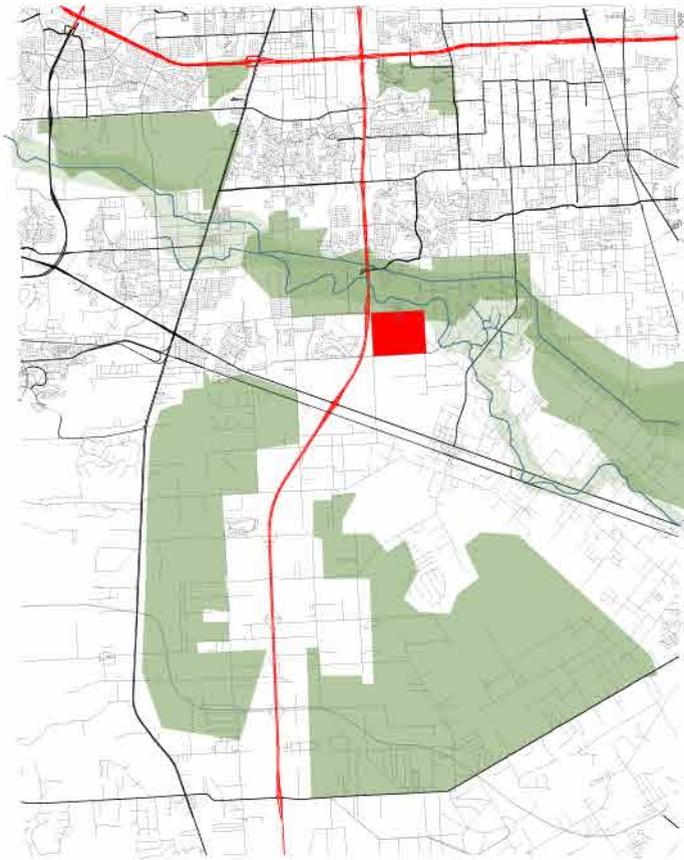


LEVELS OF DEVELOPMENT



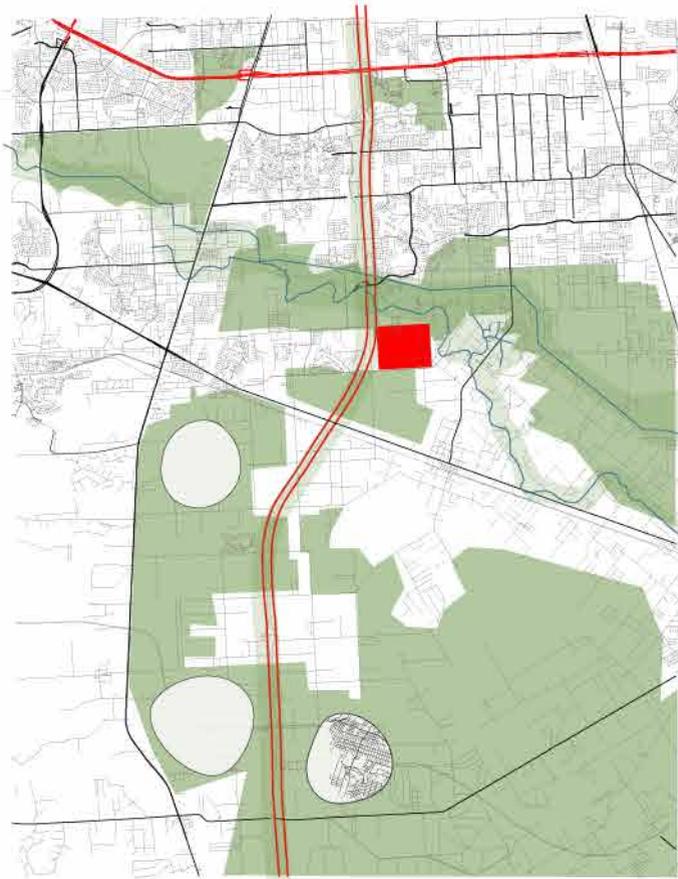
2030

ORGANIZATION



2040

GROWTH



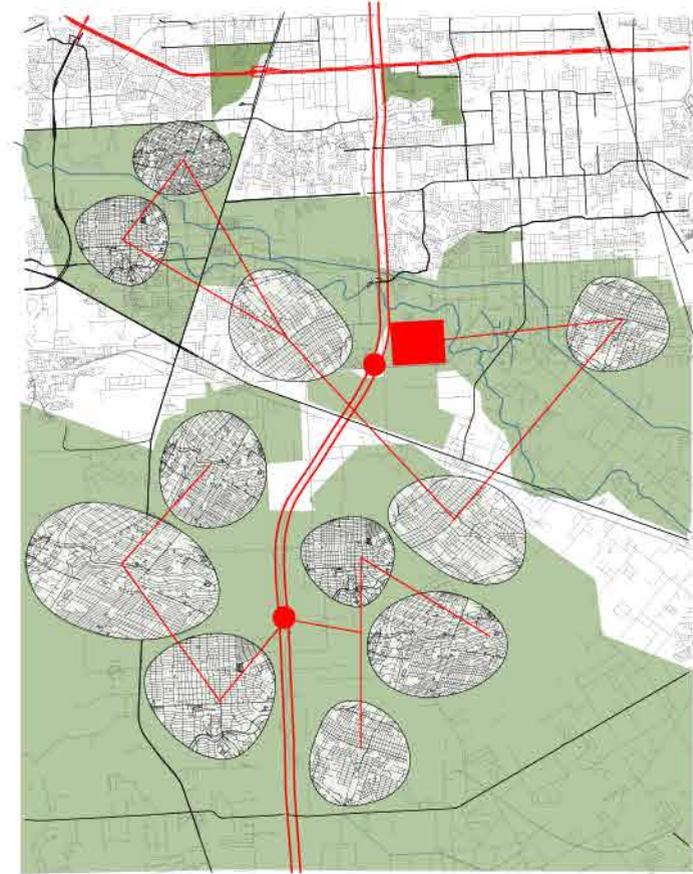
2050

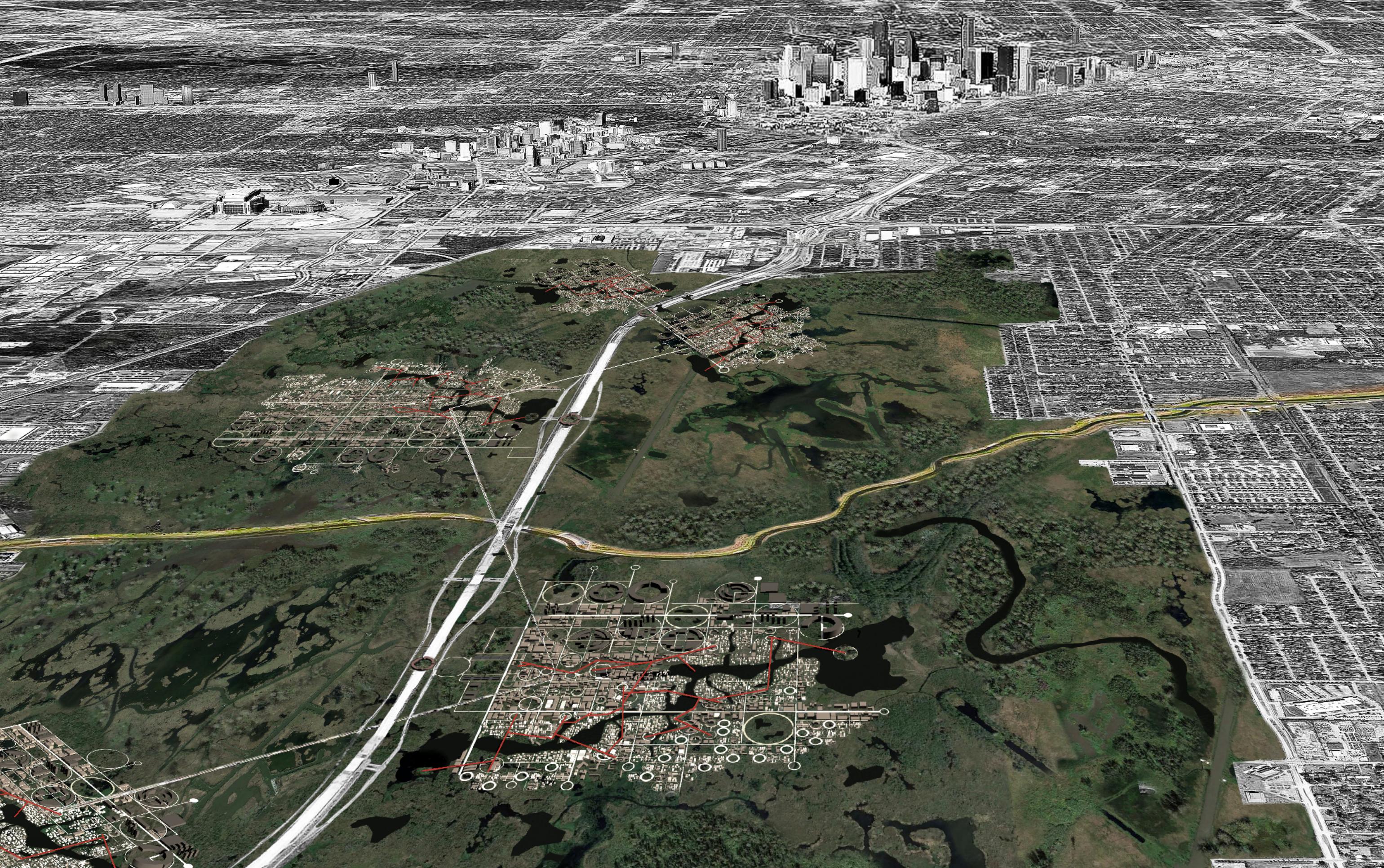
REVITALIZE



2060

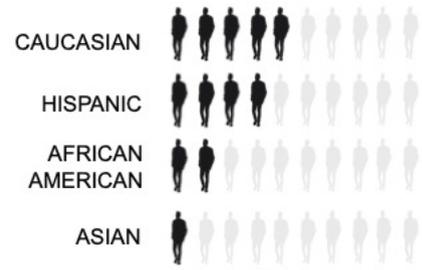
EVOLVE





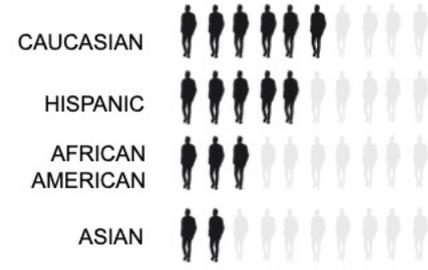
SUBTOPIA DIVERSITY: INCREMENTAL INCREASE

2030



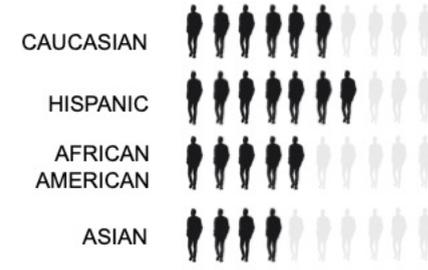
INFLUX OF LOCAL PEOPLE

2040



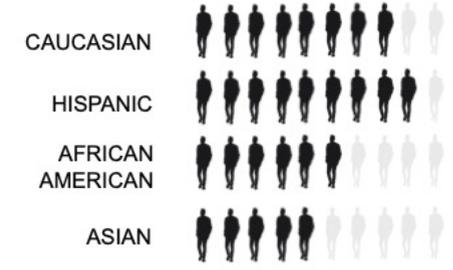
INCREASE IN LOCAL JOBS

2050



INCREASE IN HOUSING

2060



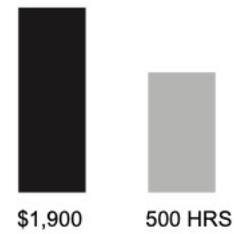
A DENSE AND DIVERSE SUBTOPIA

COMMUTE

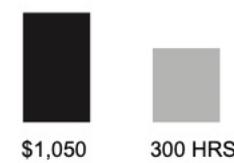
ANNUAL TRAVEL TIME
ANNUAL GAS SPENT



GAS MOTOR VEHICLES



INTRODUCE ELECTRICAL VEHICLES



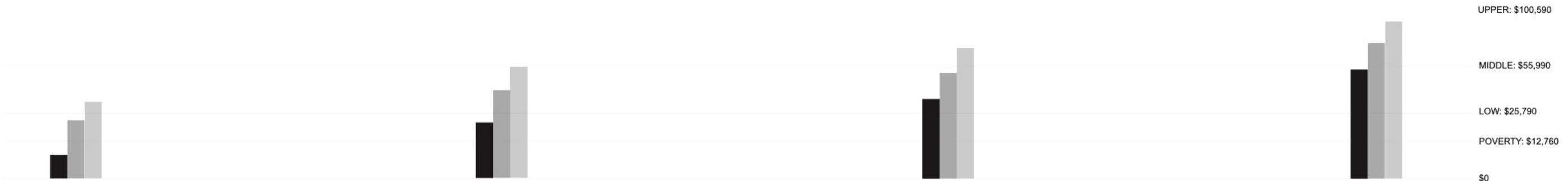
AT-HOME WORK + ELECTRICAL VEHICLES



HYPERLOOP IS BUILT AS A CONNECTION FROM SUBTOPIA TO HOUSTON.

INCOME

FAMILY OF 7
FAMILY OF 5
FAMILY OF 3



DAILY COMMUTE + CAR INSURANCE

DECREASE IN COMMUTE INCREASE IN LOCAL JOBS

AT-HOME WORK

CAR INSURANCE IS UNCOMMON. ELECTRICAL BIKES AND GOLF CARTS ARE PROVIDED FOR THE NEIGHBORHOOD.

SUBTOPIA PLAN



1 MILE

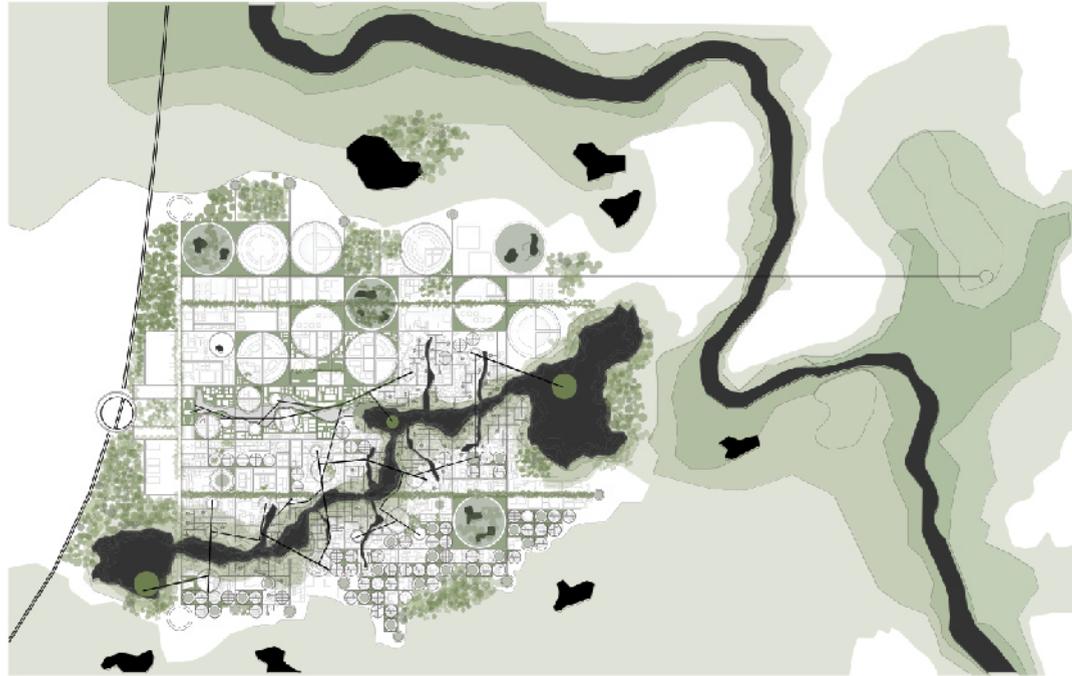


1 MILE

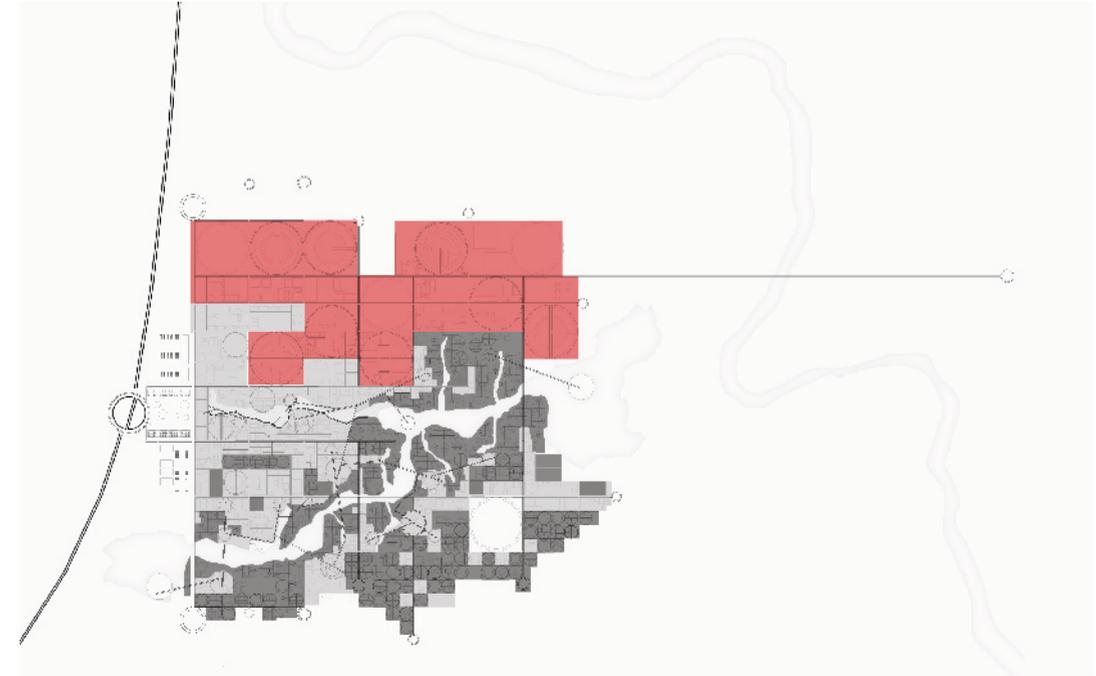


600 FT

RULES OF SUBTOPIA



LIVING WITH NATURE



BLENDED PROGRAM

RESIDENTIAL COMMERCIAL INDUSTRY



HYPERLOOP

HYPERLOOP SYSTEM



NET ZERO

FOOD POWER WASTE WATER

LIVING WITH NATURE



WETLAND

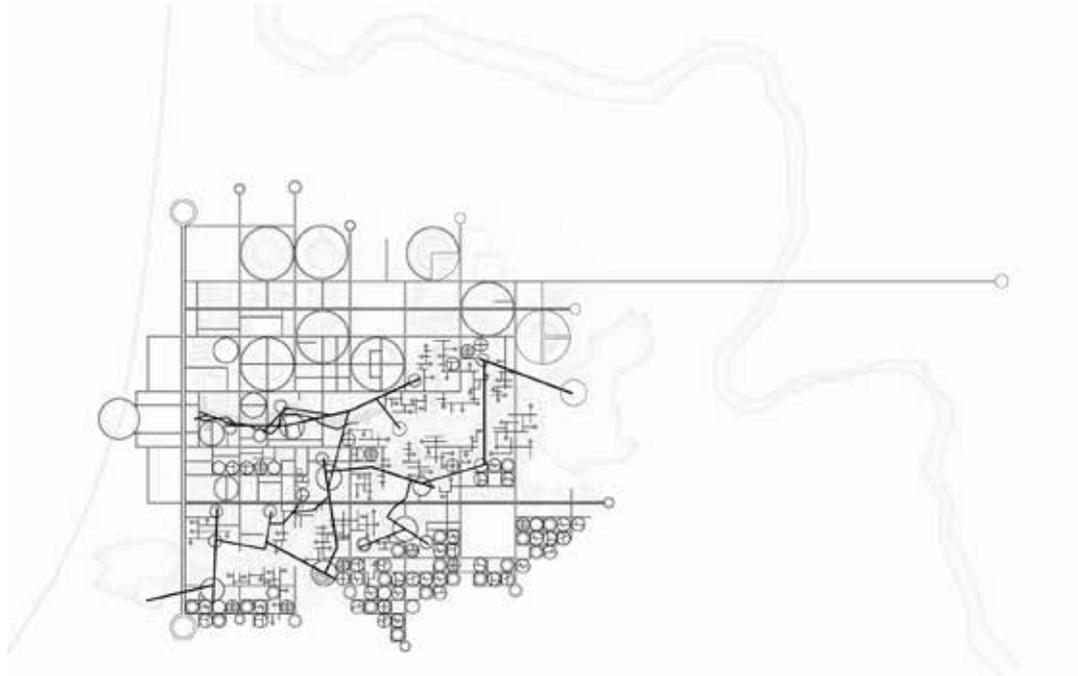


FLOOD PLAINS

100 YEAR FLOOD 500 YEAR FLOOD 100 YEAR FLOOD



GREEN SPACES/ NATIVE PLANTS



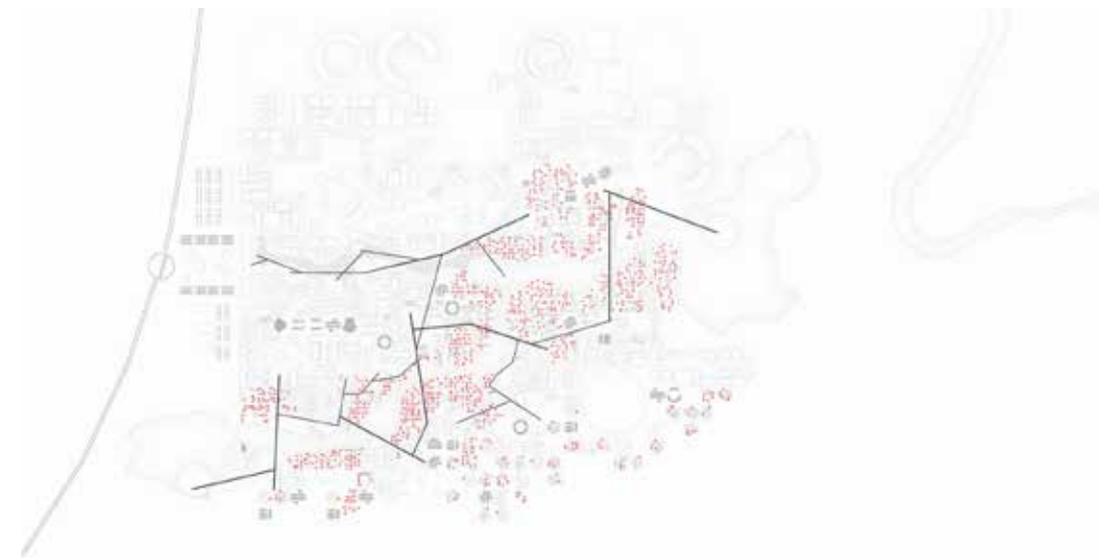
PERMEABLE SURFACES



BLENDING PROGRAM



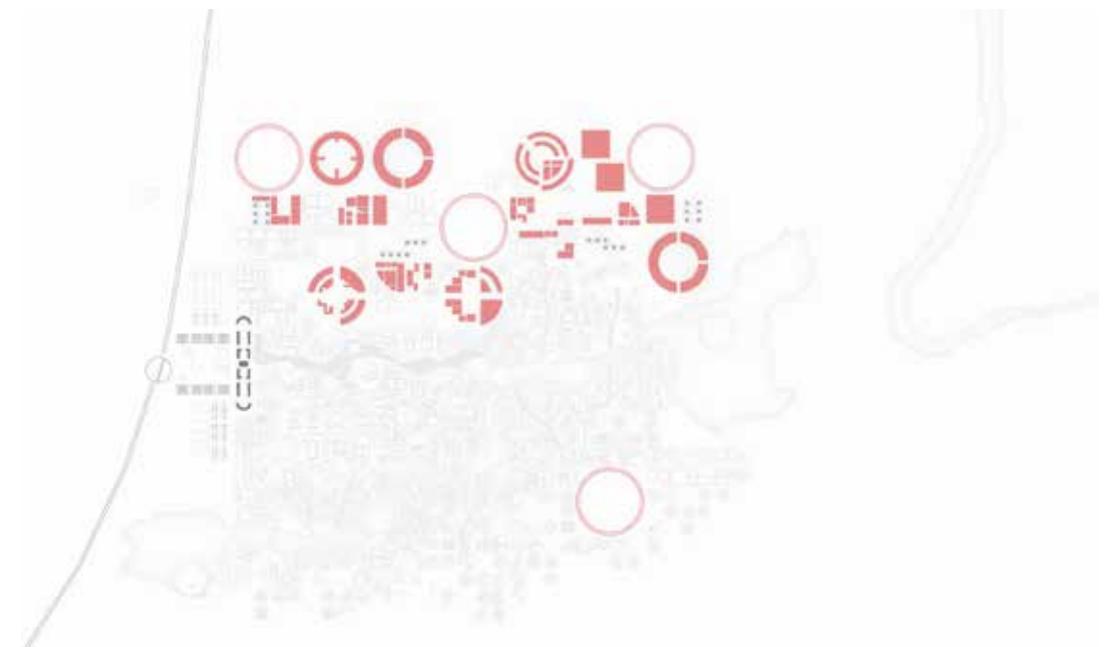
■ RESIDENTIAL	■ COMMERCIAL	■ INDUSTRY
SUBTOPIA		
POPULATION:	12,250	
BUILDINGS:	942	
FAR:	1.13	



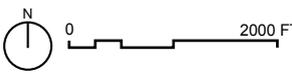
■ SINGLE FAMILY	■ MULTI-FAMILY	■ APARTMENTS	 TOWNHOUSES
RESIDENTIAL			
POPULATION:	6,820		
HOUSING:	478		
FAR:	SINGLE FAMILY	MULTI-FAMILY	APARTMENTS TOWNHOUSES
	1	2	1.57 1.50



■ COMMERCIAL	■ OFFICES	■ ADMINISTRATION	
COMMERCIAL			
POPULATION:	4,350		
BUILDINGS:	386		
FAR:	SCHOOL	OFFICES	ADMINISTRATION
	1.09	0.96	0.86



■ RESEARCH	■ MARKETS	■ HYDROPONIC TOWERS	
INDUSTRY			
POPULATION:	1,880		
BUILDINGS:	60		
FAR:	RESEARCH	MARKETS	HYDROPONIC TOWERS
	1.60	0.32	0.45

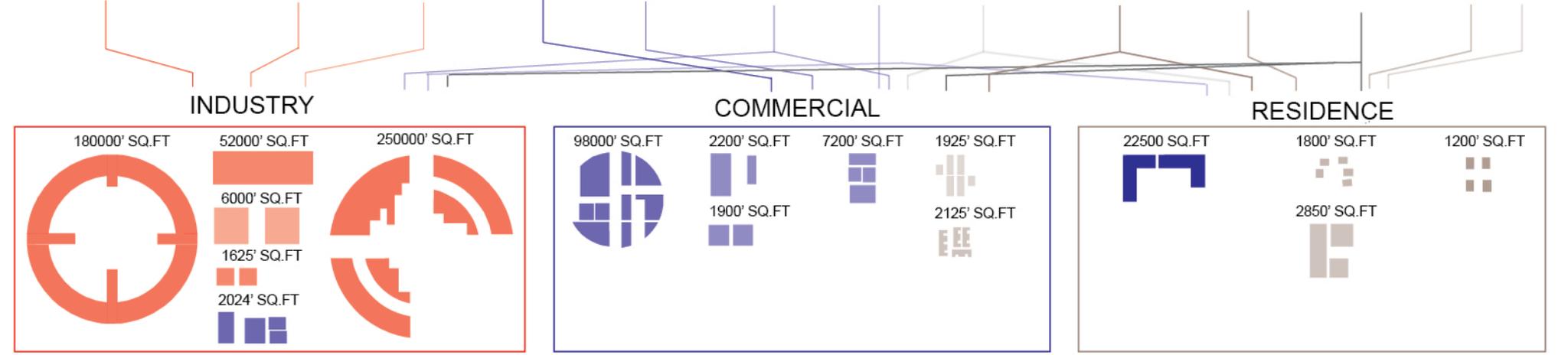


SUBTOPIA BREAKDOWN

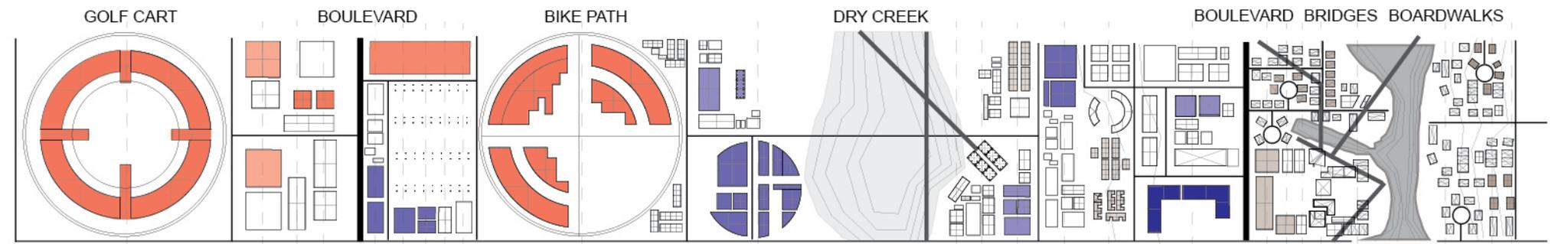
1
PROGRAM



2
DISTRICTS



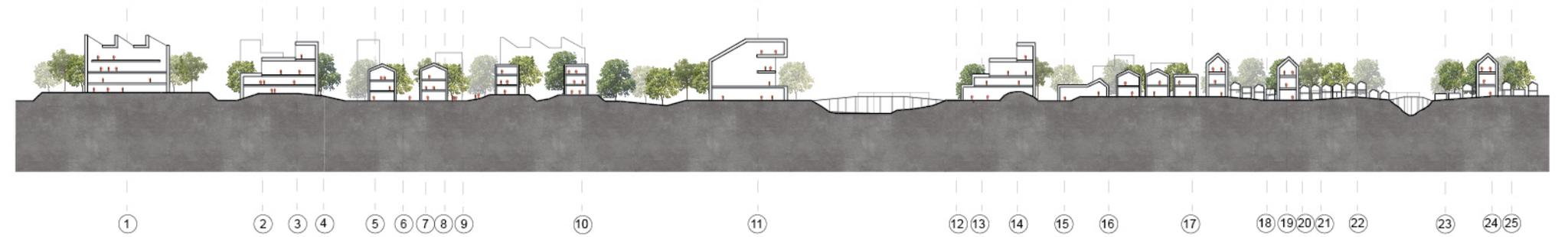
3
PATH



4
ORGANIZATION



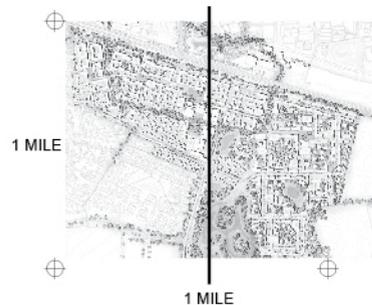
5
SECTION



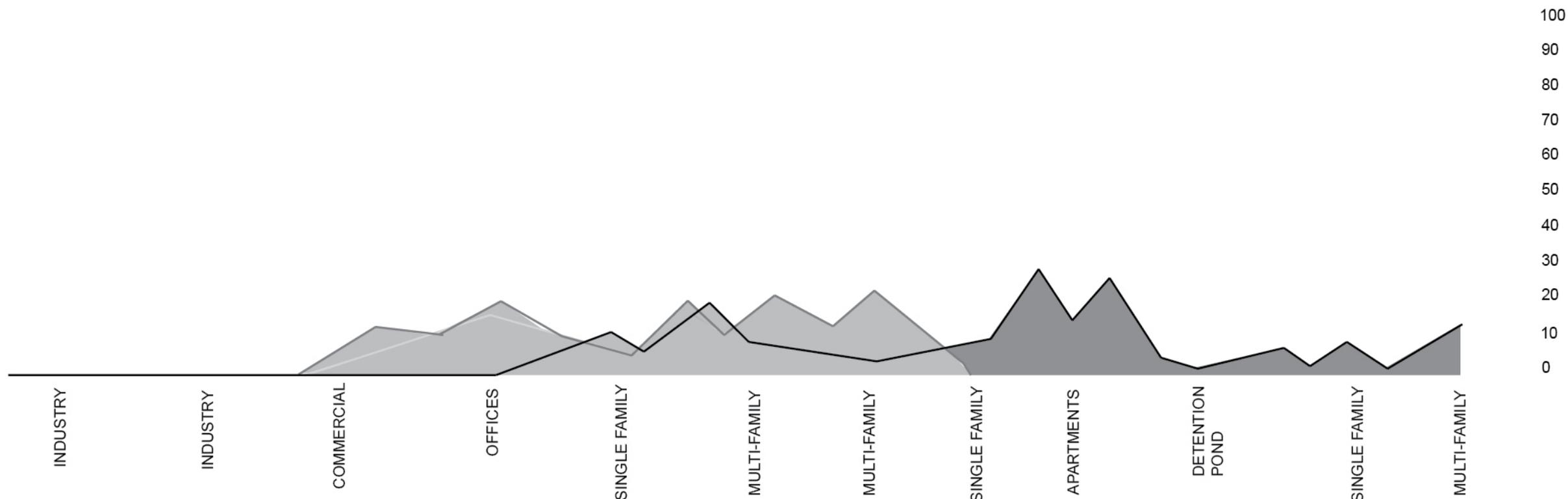
DENSITY: SUBTOPIA 2060 VS. SUBURBS 2020

PEOPLE PER ACRE

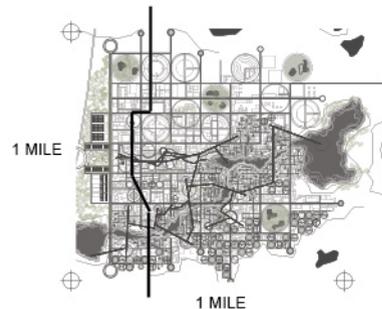
2020



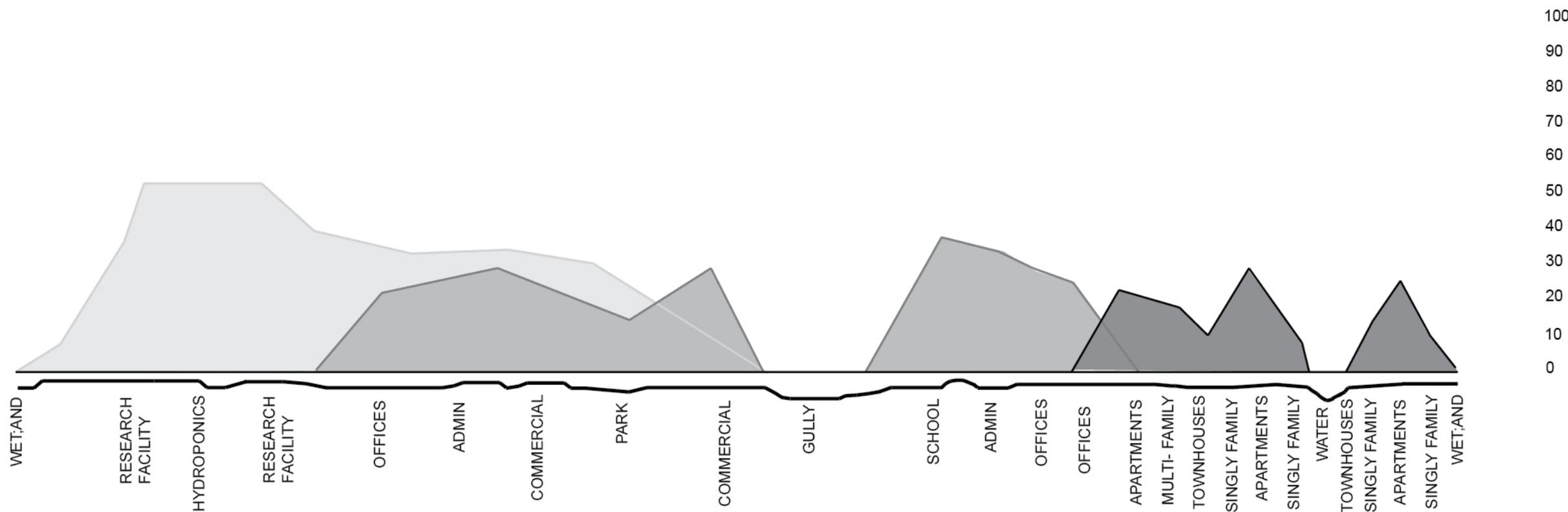
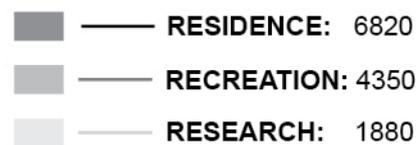
SUBURB "PEARLAND"
POPULATION: 4253



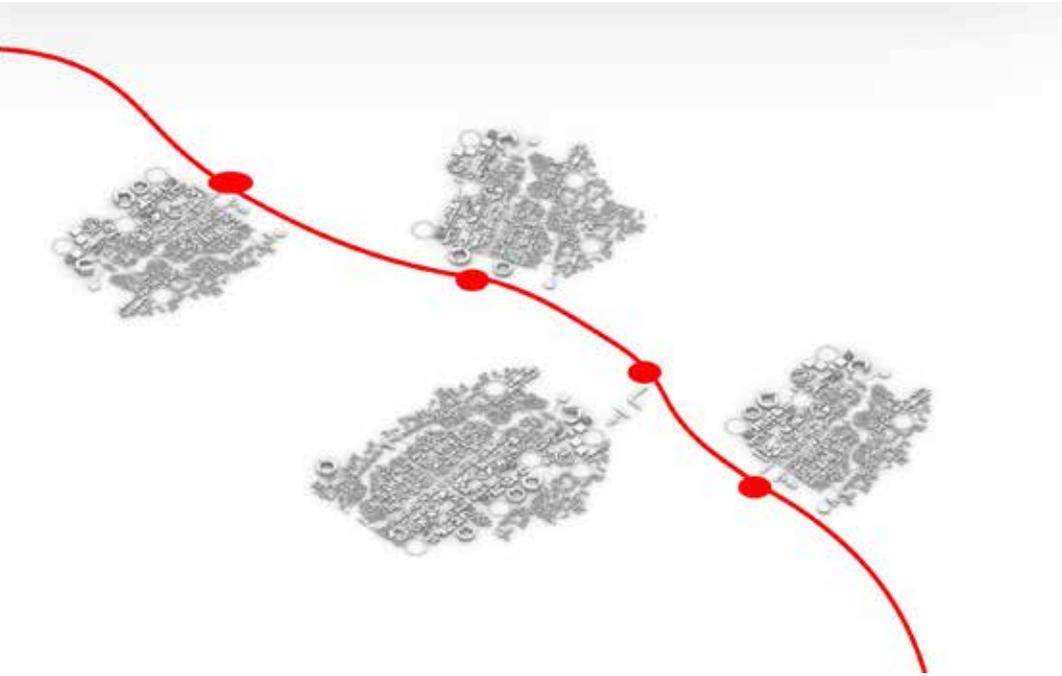
2060



SUBTOPIA
POPULATION: 13050



HYPERLOOP



HYPERLOOP STATIONS



URBAN TRANSPORT

■ VEHICLE ACCESS



LOCAL TRANSPORT

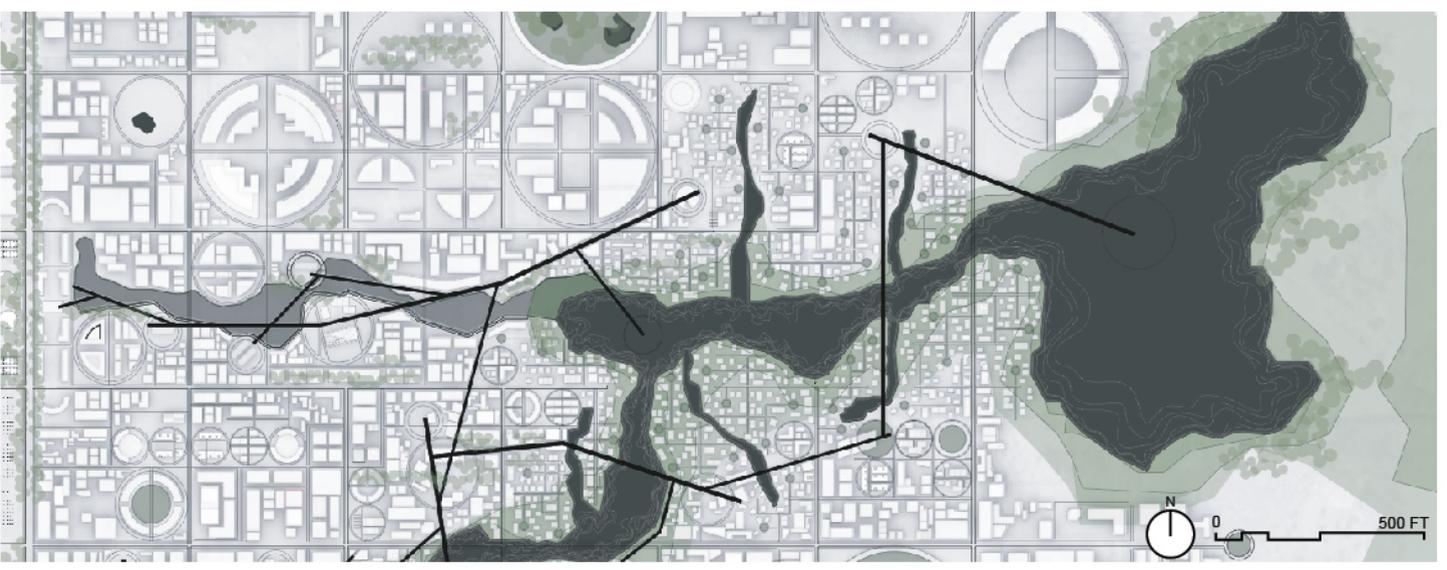
■ GOLF CART/ BIKE ACCESS



LOCAL TRANSPORT

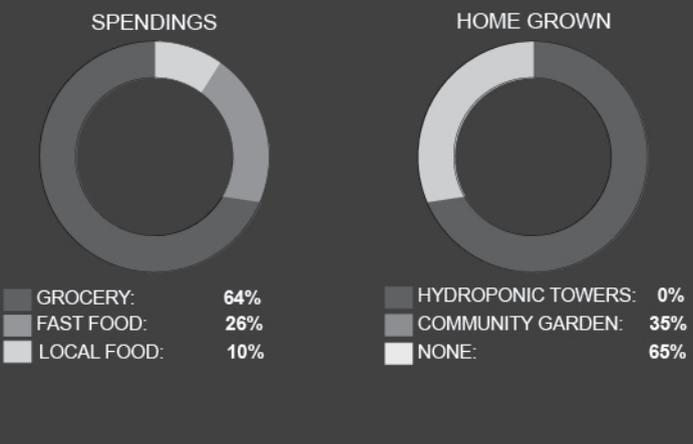
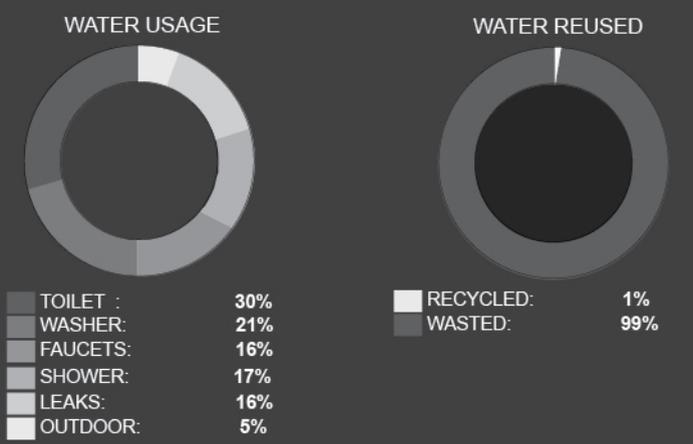
■ BIKE/ PEDESTRIAN PATH

■ BRIDGE/ BOARDWALK



WATER

FOOD

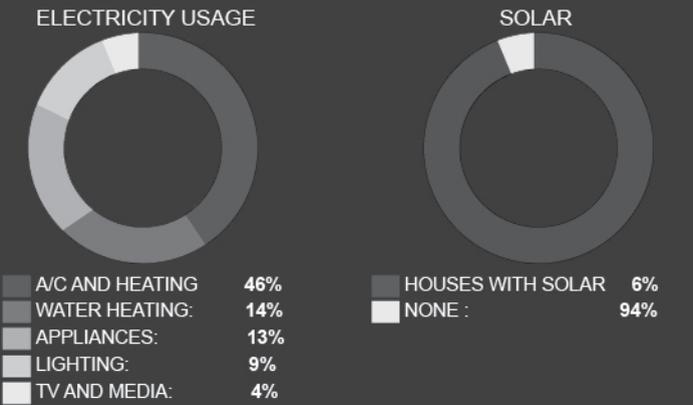
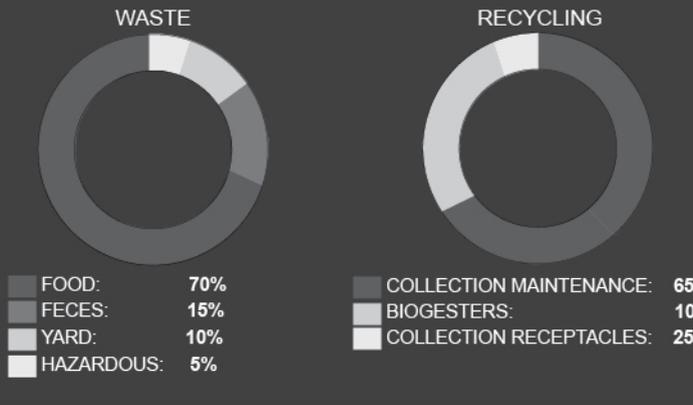


WATER CONSUMPTION PER HOUSE (FAMILY OF 4):
300 GALLONS PER DAY/ 4 PEOPLE

FOOD COST PER YEAR (FAMILY OF 4):
\$7,700 PER YEAR

WASTE

ENERGY

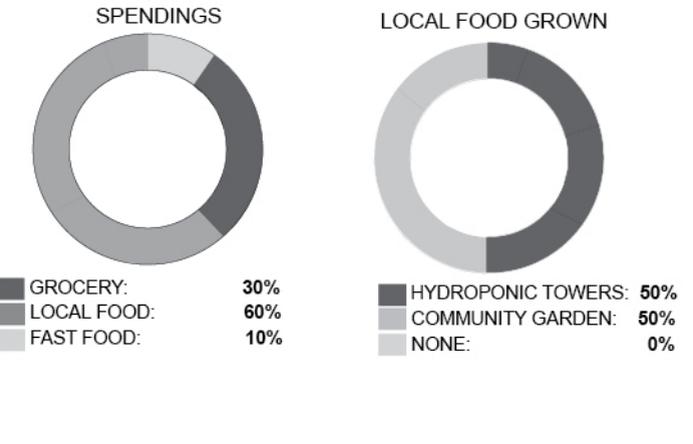
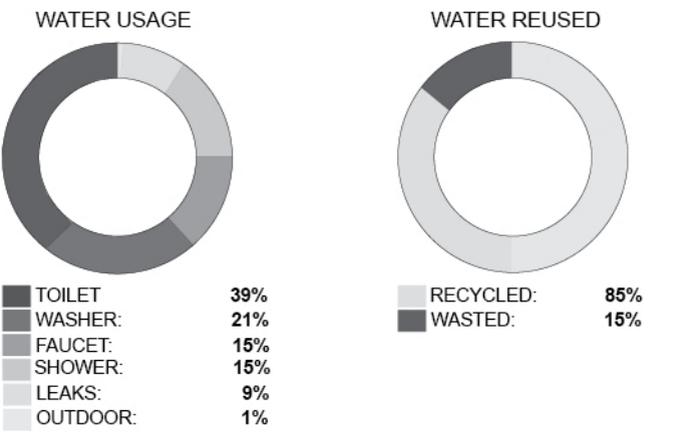


HOUSEHOLD WASTE PER DAY (FAMILY OF 4):
18 LBS/ 4 PEOPLE

ENERGY CONSUMPTION PER HOUSE (FAMILY OF 4):
10,649 kWh PER DAY

WATER

FOOD

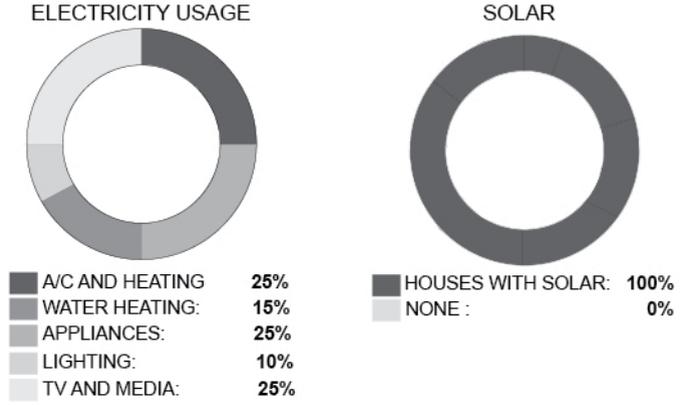
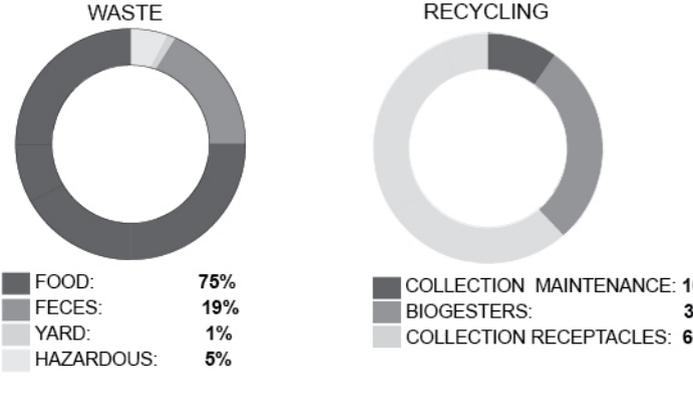


WATER CONSUMPTION PER HOUSE (FAMILY OF 4):
50 GALLONS PER DAY/ 4 PEOPLE

FOOD COST PER YEAR (FAMILY OF 4):
\$1,540 PER YEAR

WASTE

ENERGY



HOUSEHOLD WASTE PER DAY (FAMILY OF 4):
4 LBS/ 4 PEOPLE

ENERGY CONSUMPTION PER HOUSE (FAMILY OF 4):
6389 kWh PER DAY

LEVELS OF DEVELOPMENT



2030

ORGANIZATION

2040

GROWTH

2050

REVITALIZE

2060

EVOLVE

