

FUN BRIDGE

PEDESTRIAN BRIDGE ON EDGE OF VEDADO

SUN YUWEI
TUTOR: PAUL COURNET
2017.7.7

60-YEAR-OLD VINTAGE CARS







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Car Sales in Cuba, a Market Opening

December 22, 2013 |



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By **Fernando Ravensberg***

HAVANA TIMES – With the announcement making possible the “retail sale of new and used motorcycles, cars, vans and minibuses,” for Cubans and foreign residents in the country, the government removes a restriction that remained for half a century.

New cars are considerably more expensive on the island than in other countries because they are taxed at 100%. However, with the revenue, the government announced it will create a national fund for the promotion of public transport.

To date in Cuba there were three markets for vehicles with a price difference of up to 500%. Paradoxically, the most expensive vehicles were second-hand and sold among the citizens of the island.



After 5 decades of prohibition, Cubans can buy tens of thousands of cars.

Beijing air pollution

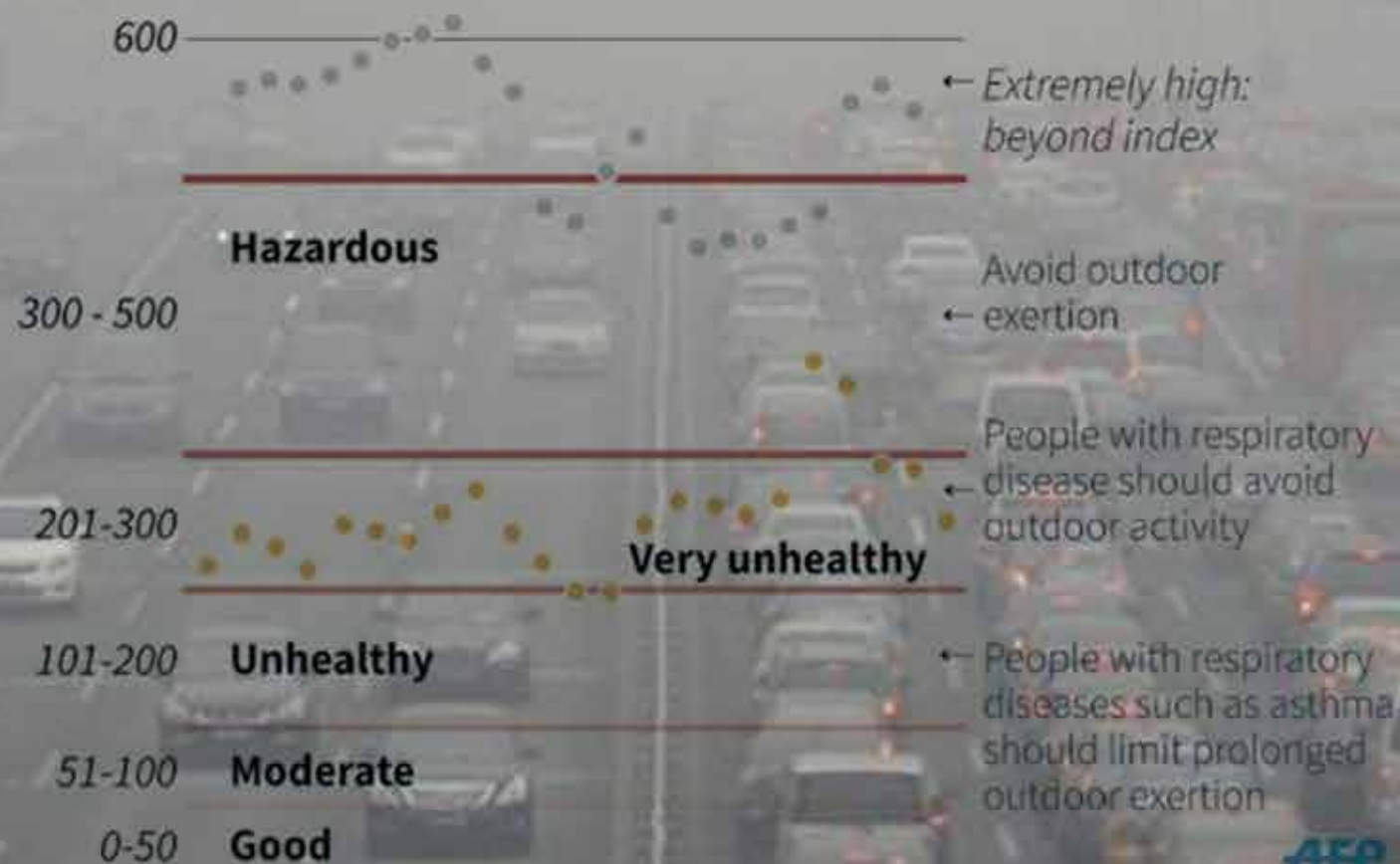
Data from US State Department

Hourly readings

Air Quality Index

• Dec 7, 11 am -
Dec 8, 9 am

• Nov 30, 12 pm -
Dec 1, 11 am







AS CUBA OPENS UP,
IS IT DOOMED TO FOLLOW THE
CAR-DEPENDENT
ROAD TO DEVELOP
LIKE OTHER DEVELOPING COUNTRIES?

HAVANA TRANSPORT

1753 - 2017

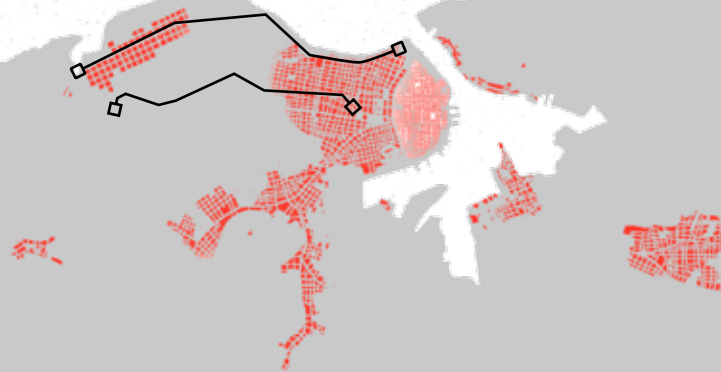




VIEJA
1753



 **VEDADO**
1853



TRAM

IN 1900-1930, THERE WAS A GREAT DEAL OF INVESTMENT IN PUBLIC TRANSPORT, BASED AROUND A WELL-DEVELOPED NETWORK OF ELECTRIC TRAMS AND RAILWAYS.



VEHICLE

IN THE EARLY 1950S, THESE NETWORKS WERE DISMANTLED (LIKE US) AS PRIVATE CAR OWNERSHIP INCREASED.



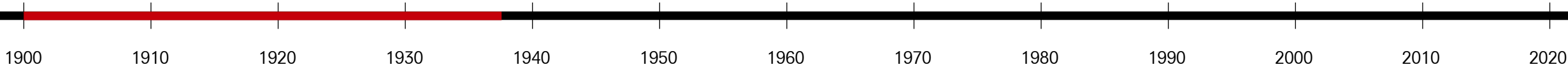
BUS

AFTER REVOLUTION, GOVERNMENT PROMOTED BUS NETWORKS AND LIMITED PERSONAL USE OF CARS.

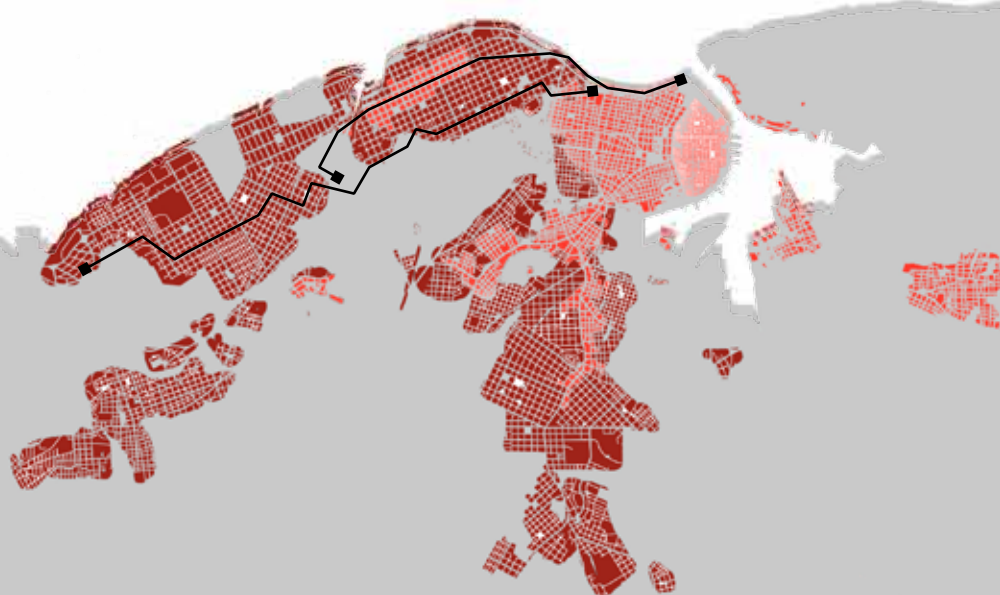


BIKE

AFTER EMBARGO, CUBA IMPORTED FROM CHINA A LARGE AMOUNT OF BIKES.



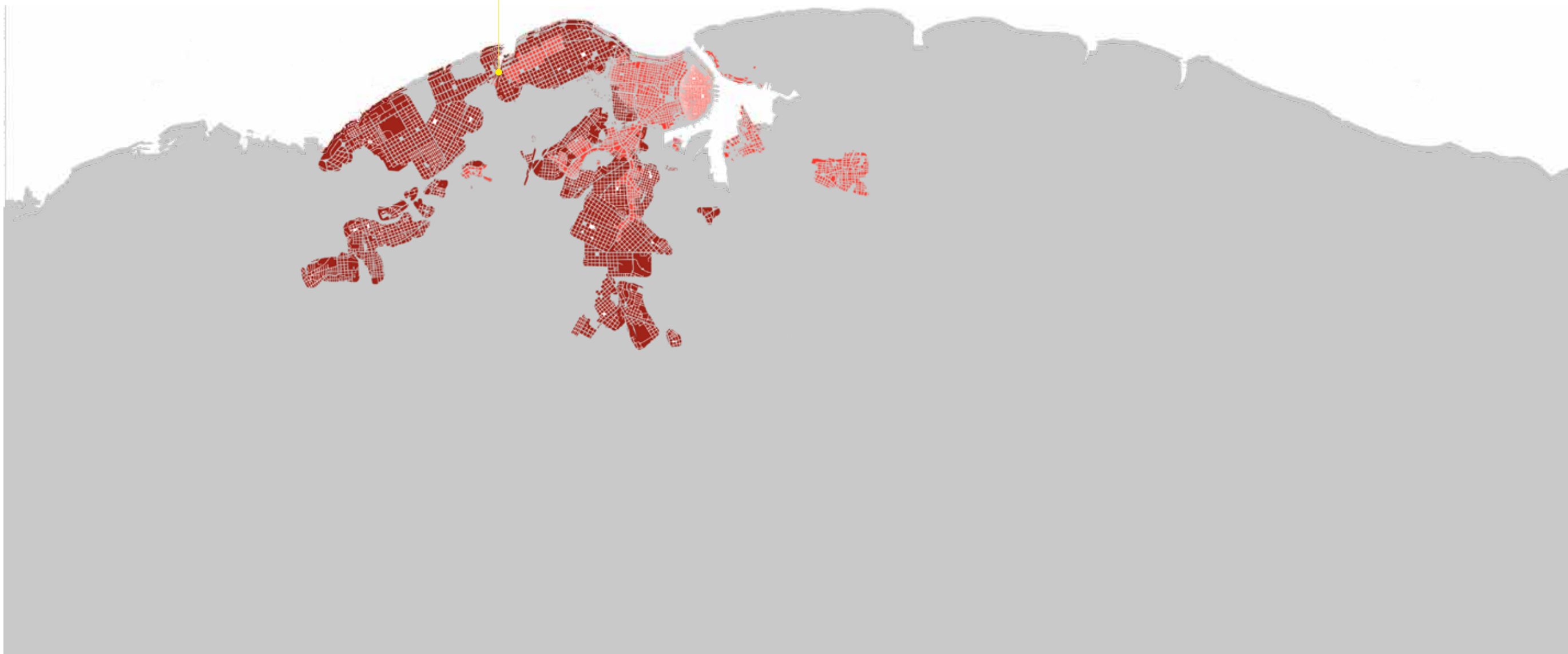
 **MIRAMAR**
1924



MIRAMAR

SITE

VEDADO



TRAM

IN 1900-1930, THERE WAS A GREAT DEAL OF INVESTMENT IN PUBLIC TRANSPORT, BASED AROUND A WELL-DEVELOPED NETWORK OF ELECTRIC TRAMS AND RAILWAYS.



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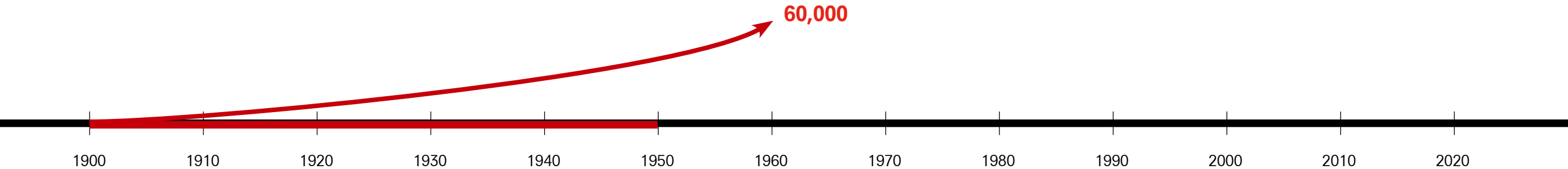
BUS

AFTER REVOLUTION, GOVERNMENT PROMOTED BUS NETWORKS AND LIMITED PERSONAL USE OF CARS.



BIKE

AFTER EMBARGO, CUBA IMPORTED FROM CHINA A LARGE AMOUNT OF BIKES.





Havana, Cuba

1959

REVOLUTION

1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020

TRAM

IN 1900-1930, THERE WAS A GREAT DEAL OF INVESTMENT IN PUBLIC TRANSPORT, BASED AROUND A WELL-DEVELOPED NETWORK OF ELECTRIC TRAMS AND RAILWAYS.



VEHICLE

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BUS

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BIKE

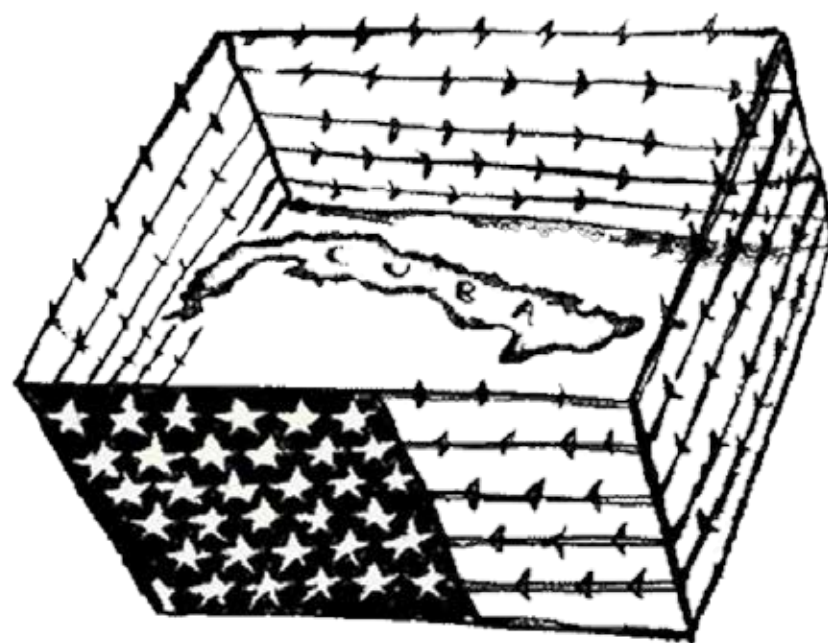
AFTER EMBARGO, CUBA IMPORTED FROM CHINA A LARGE AMOUNT OF BIKES.



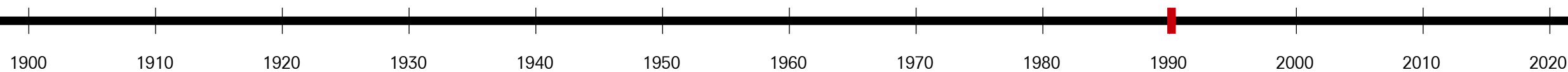
REVOLUTION



1960s



EMBARGO



TRAM

IN 1900-1930, THERE WAS A GREAT DEAL OF INVESTMENT IN PUBLIC TRANSPORT, BASED AROUND A WELL-DEVELOPED NETWORK OF ELECTRIC TRAMS AND RAILWAYS.



VEHICLE

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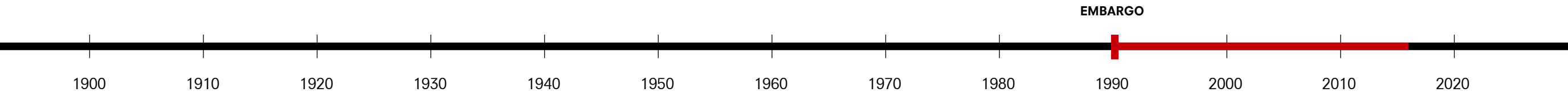
BUS

AFTER REVOLUTION, GOVERNMENT PROMOTED BUS NETWORKS AND LIMITED PERSONAL USE OF CARS.

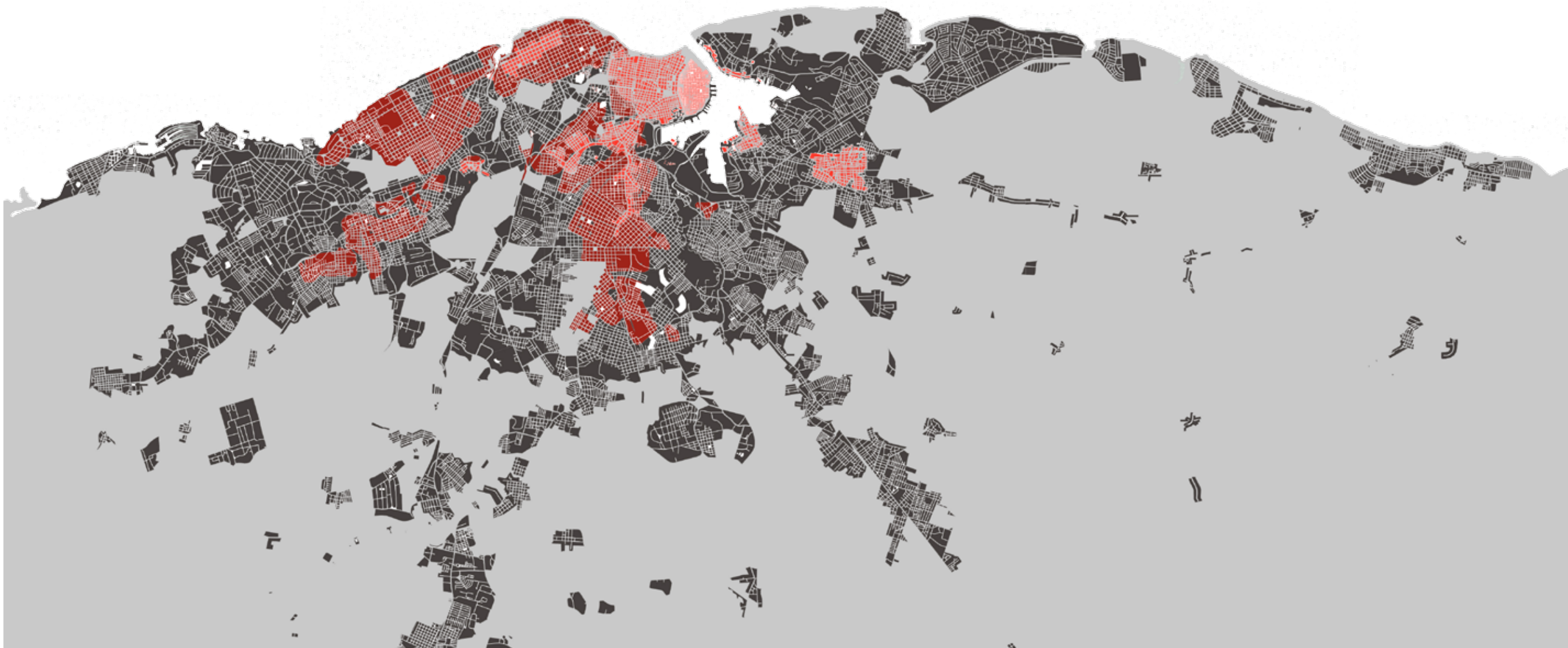


BIKE

AFTER EMBARGO, CUBA IMPORTED FROM CHINA A LARGE AMOUNT OF BIKES.



50KM



HAVANA WAYS OF TRANSPORT TODAY

WALKING



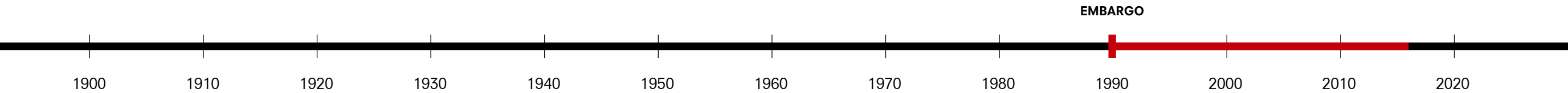
CYCLING



VEHICLE SHARING



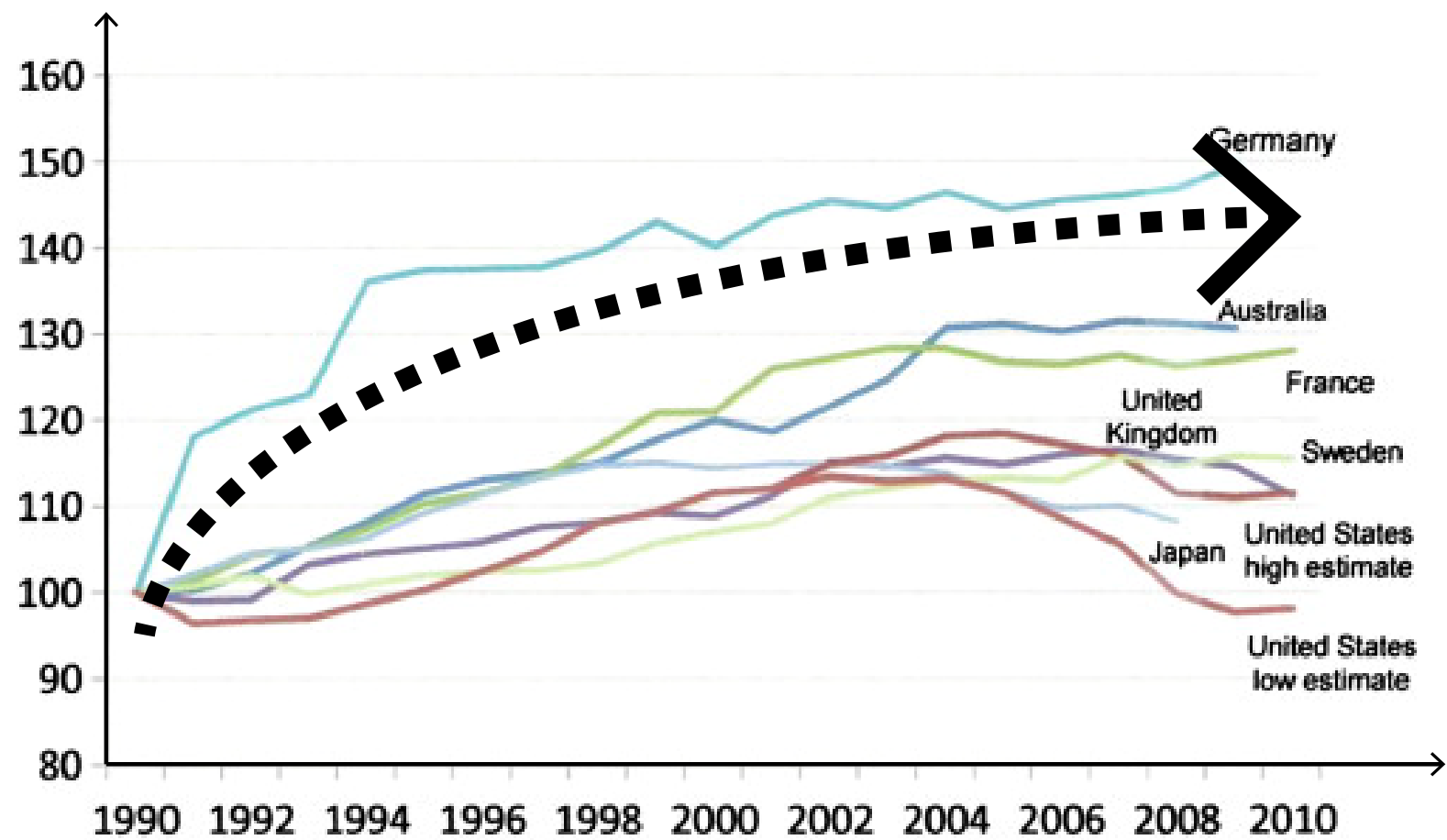
BUS





SO WHAT'S NEXT?

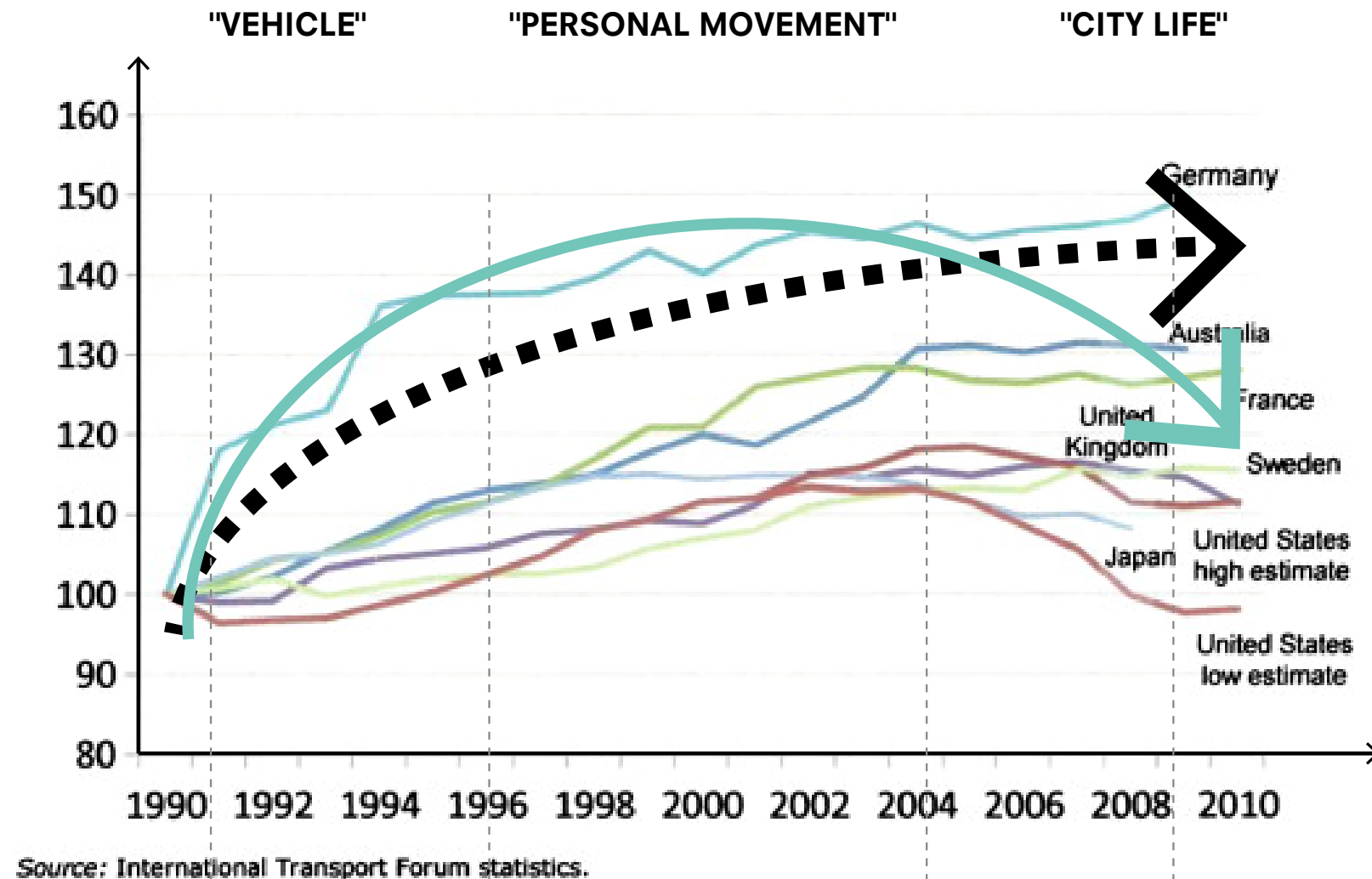
HOW SHOULD HAVANA TRANSPORT IN FUTURE?

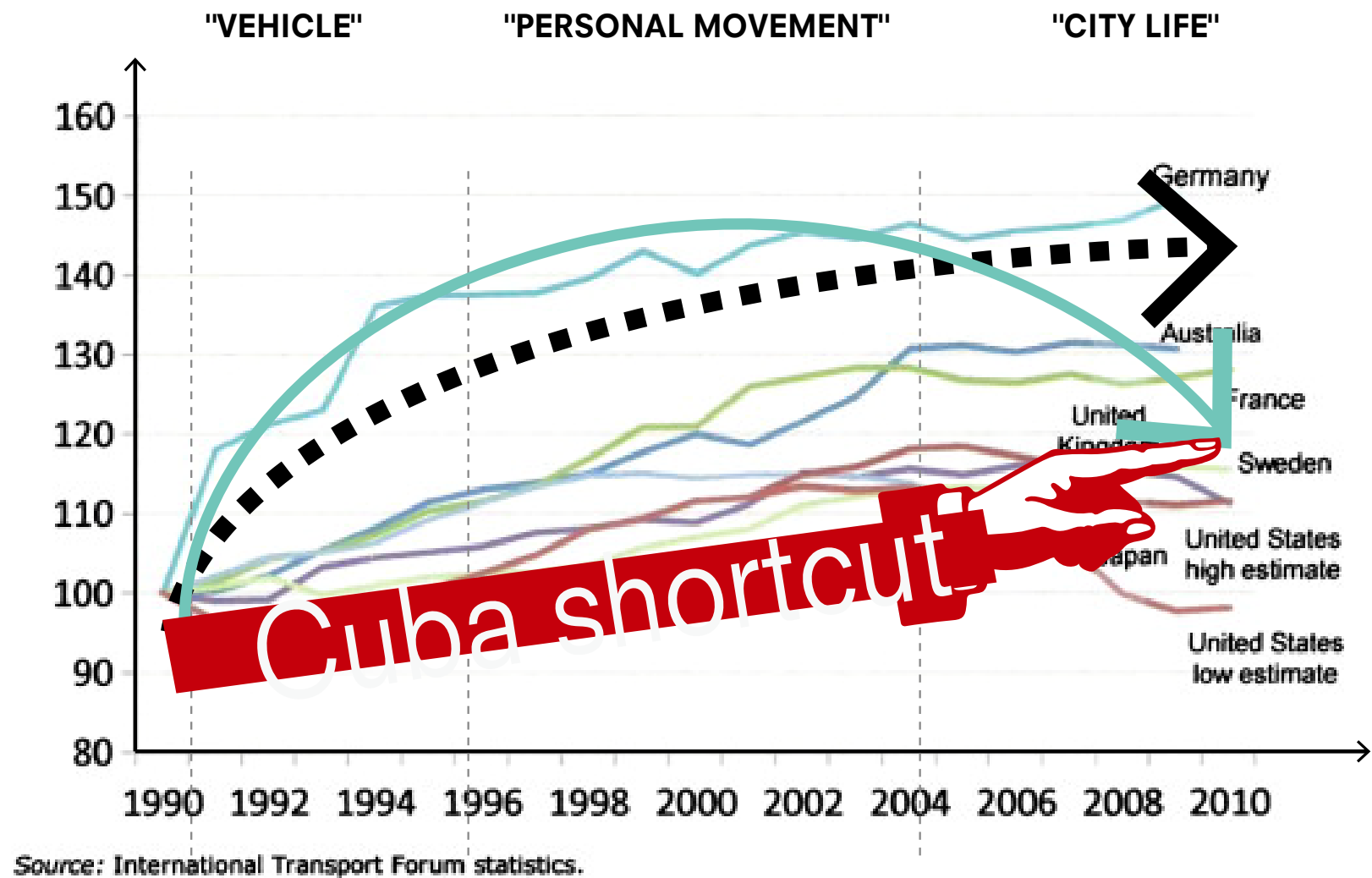


Source: International Transport Forum statistics.

FIG. 2.
PASSENGER KILOMETRES BY PRIVATE CAR AND LIGHT TRUCKS 1990–2009.
(INDEX 1990 = 100) SOURCE: [15], FIG. 1.

THREE STAGES IN GLOBAL URBAN MOBILITY POLICIES.





caso de La Habana, el servicio de transporte público se ha caracterizado a lo largo de los años por su inestabilidad, insuficiencia y baja calidad, incluso en los momentos de mayor capacidad de transportación.

“Como línea estratégica aprobada, hay elementos fundamentales para garantizar un mejoramiento del transporte en general, donde se destacan la separación de las funciones estatales de las empresariales; darle prioridad al transporte colectivo; incentivar el uso de transporte no motorizado, como la bicicleta; mantener los servicios básicos del transporte de omnibus públicos y ferrocarril (bajo un esquema estatal, aplicando nuevas formas organizativas); organizar Cooperativas los servicios complementarios de transporte incluyendo la

CONESA GONZALEZ

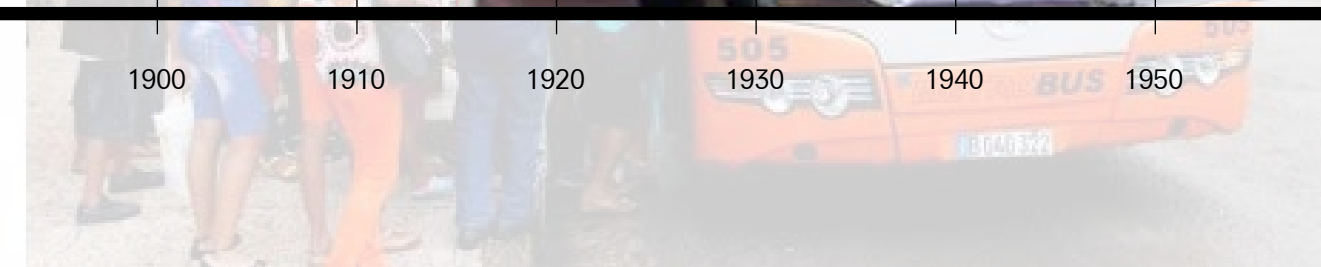
THE DIRECTOR GENERAL OF TRANSPORT HAVANA

de Regla, los taxis ruterios, el servicio de ómnibus de transporte de trabajadores de las entidades estatales y los peajes; entre otros. Las políticas que conforman un documento de 16 páginas, año 2016.9

El Director General de Transporte La Habana se comprometió de acuerdo a las organizativas posibilitará un incremento de la transportación de pasajeros, con una mayor eficiencia en las condiciones del país y sentará las bases para un desarrollo sostenible que asegure la movilidad de la población.

"GIVE PRIORITY TO PUBLIC TRANSPORT.
ENCOURAGE CYCLING.
ENABLE AN INCREASE IN PUBLIC TRANSPORTATION
OF PASSENGERS IN CURRENT CONDITIONS AND LAY
FOUNDATION FOR SUSTAINABLE LONG-TERM DEVELOPMENT"

2016.9



Por su parte, la Msc. Guadalupe Rodríguez Rodríguez, Directora de Planeamiento Dirección General de Transporte La Habana, comentó que partiendo de este principio (separación de las funciones estatales a las empresariales y la creación de la Empresa Provincial de Transporte) se puede decir que esto permitirá dirigir y controlar el cumplimiento de la política estatal que tiene que ver con los servicios, el control y financiamiento de satisfacer las crecientes

de la implementación de las políticas y de los planes de desarrollo que debe organizar la

De acuerdo a lo planteado en el Programa de transporte, se marcará 14 subprogramas en los que destaca la Construcción de nuevas vías, la ampliación de tramos, la construcción de 24 Estaciones Urbanas de pasajeros, en los principales nudos de transportación de la ciudad, la construcción o rescate de bases de ómnibus y la construcción de Paradas. De las 3030 paradas identificados, el 35% (1060) tienen cubiertas.

Estamos trabajando en enlaces como el de Berroa- Alamar, donde existen puestos de trabajo y la zona de Alamar es residencial, pero llega más rápido al centro de la ciudad al no existir vialidad. También laboramos en la ampliación de tramos como Vía Blanca, intersección entre Vento con Camagüey, la Ampliación de tramo desde el Café Colón hasta la Calle Maceo, ampliación a 4 carriles de la Calzada de Bejucal, la Calzada de Güines, entre otros muchos puntos.

La Dirección de Planeamiento agregó que también se está trabajando en los inspectores no solo para controlar el transporte y los trabajadores de los ómnibus, también están pasando un curso de capacitación para dar un servicio de ayuda y orientación al pasajero.

2016

VIEJA



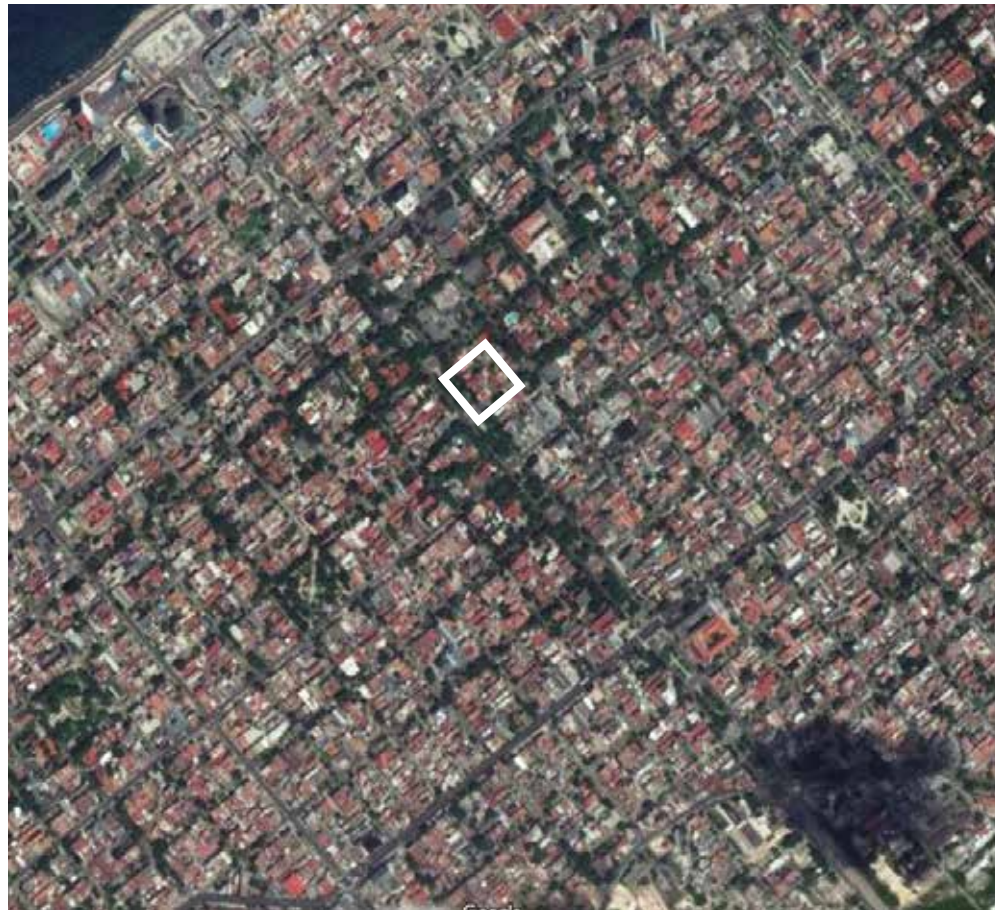
VIEJA



VEDADO



VEDADO



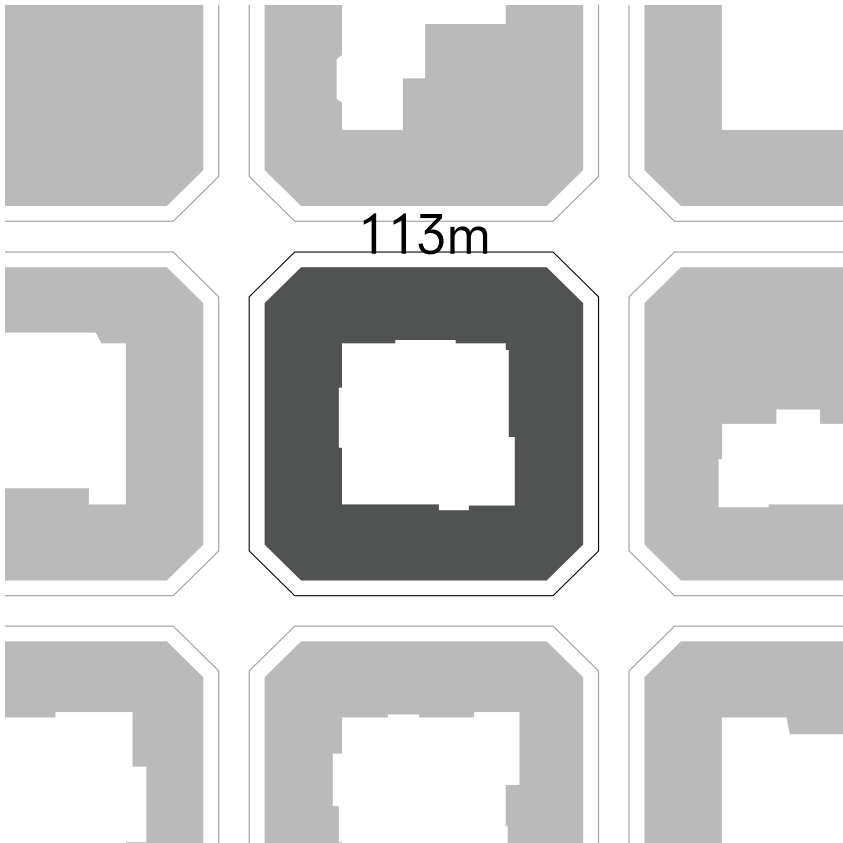
2.1KM

BARCELONA

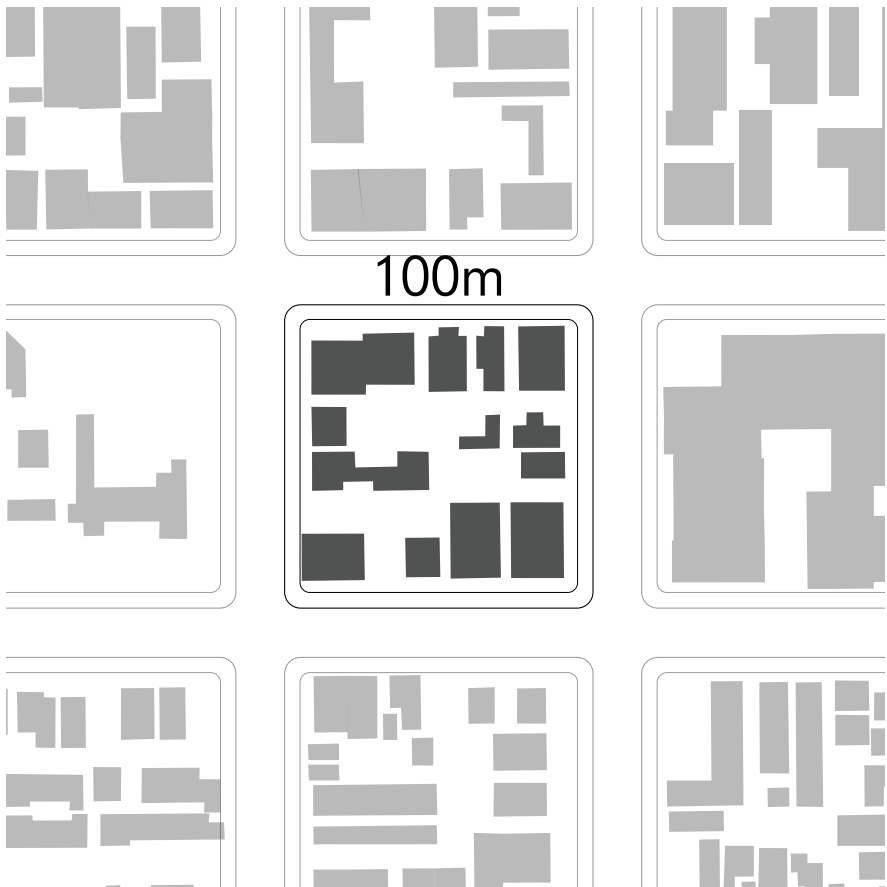


2.1KM

VEDADO

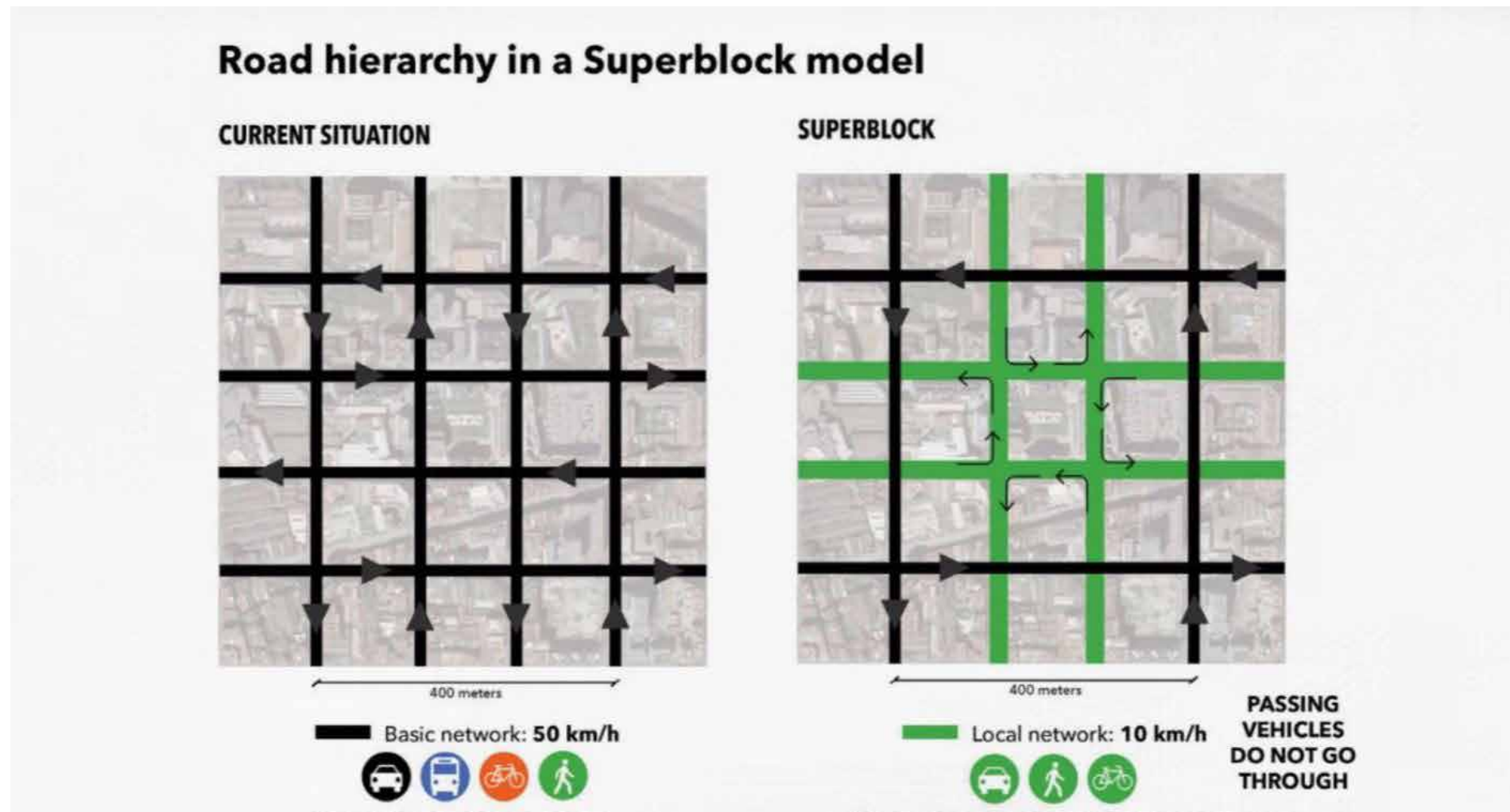


BARCELONA



BARCELONA PEDESTRAIN STREET

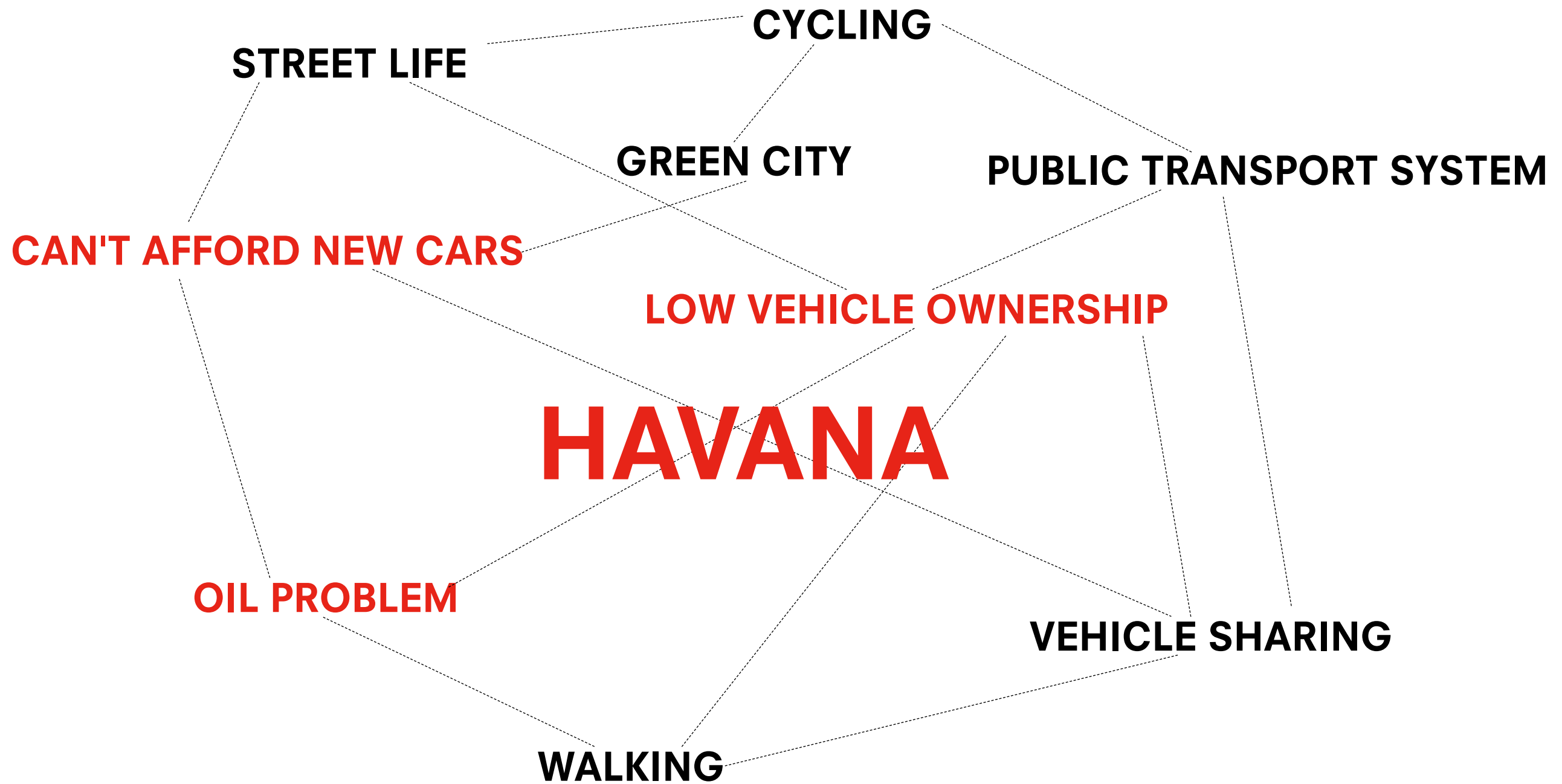
TRANSPORT IN A TRULY “LIVEABLE CITY” HAD TO FACTOR IN SOCIAL INCLUSION, PUBLIC HEALTH AND ENVIRONMENTAL SUSTAINABILITY. SMALLER INTERVENTIONS SUCH AS PEDESTRIANISED STREETS OR CYCLE LANES TRIGGERED POSITIVE CHAIN REACTIONS.





UNWALKABLE STREET







MALECON

LINEA

TUNNEL

TUNNEL

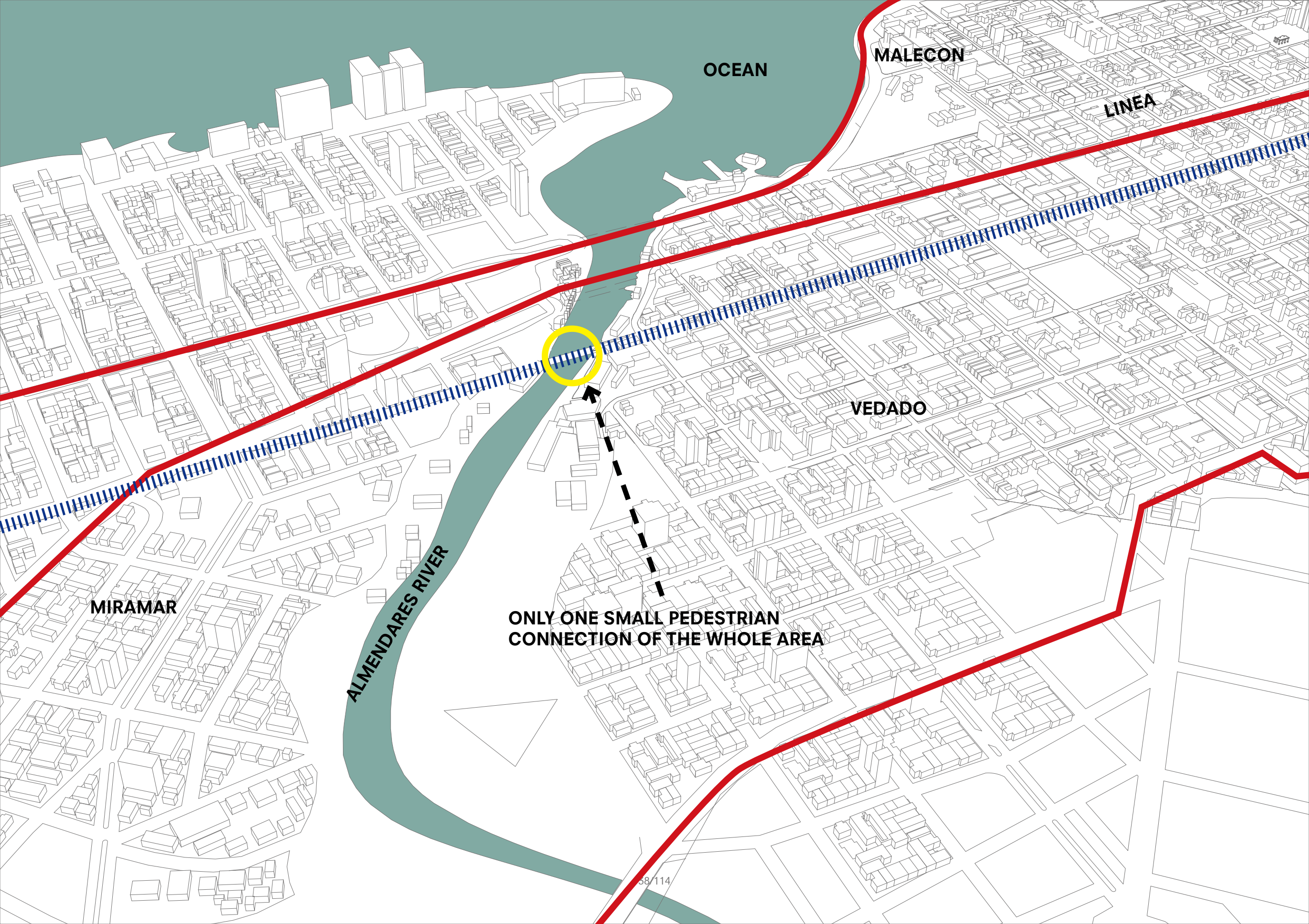
VEDADO

MIRAMAR

ALMENDARES RIVER

HIGHWAY

114



OCEAN

MALECON

LINEA

VEDADO

MIRAMAR

ALMENDARES RIVER

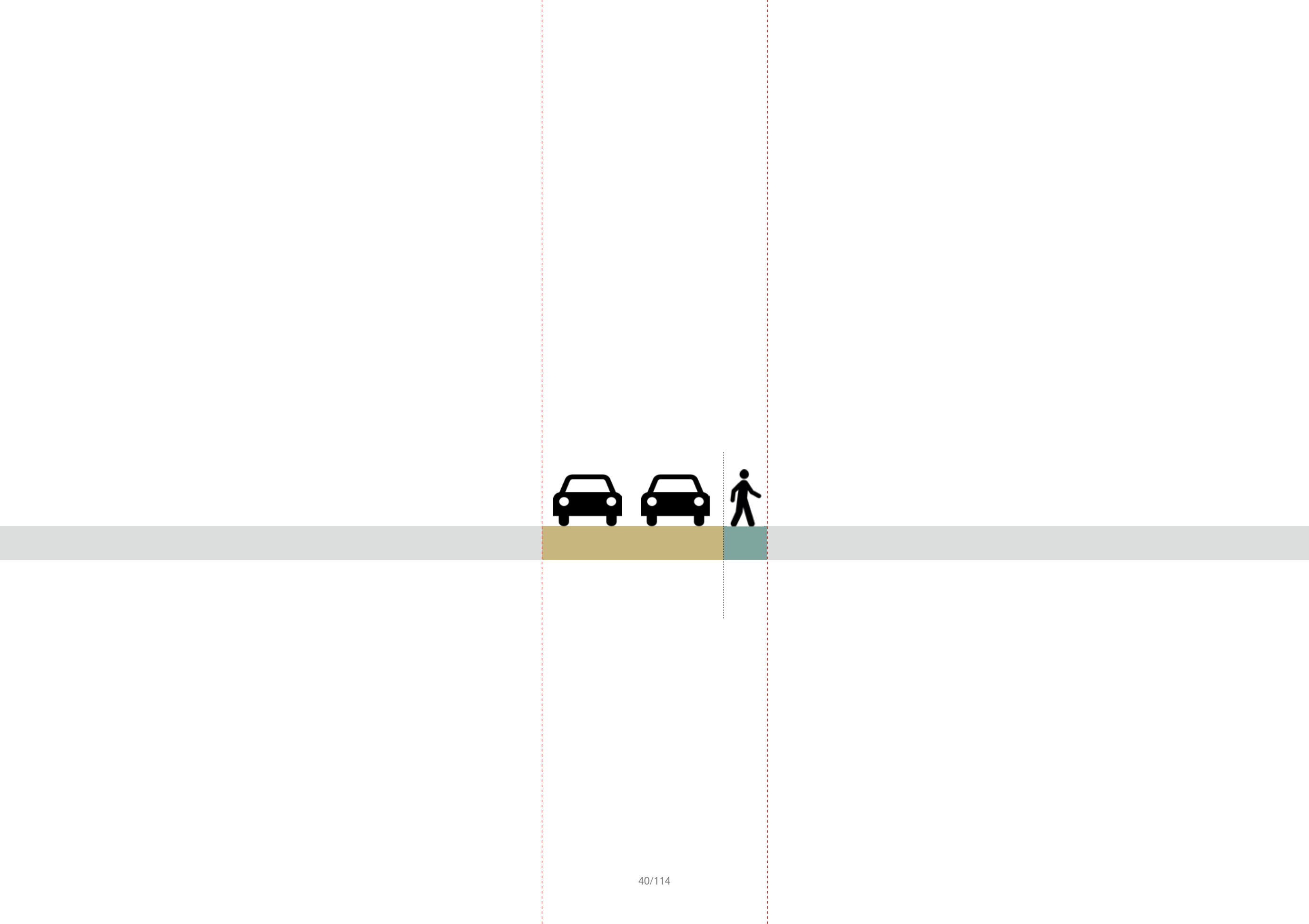
ONLY ONE SMALL PEDESTRIAN
CONNECTION OF THE WHOLE AREA

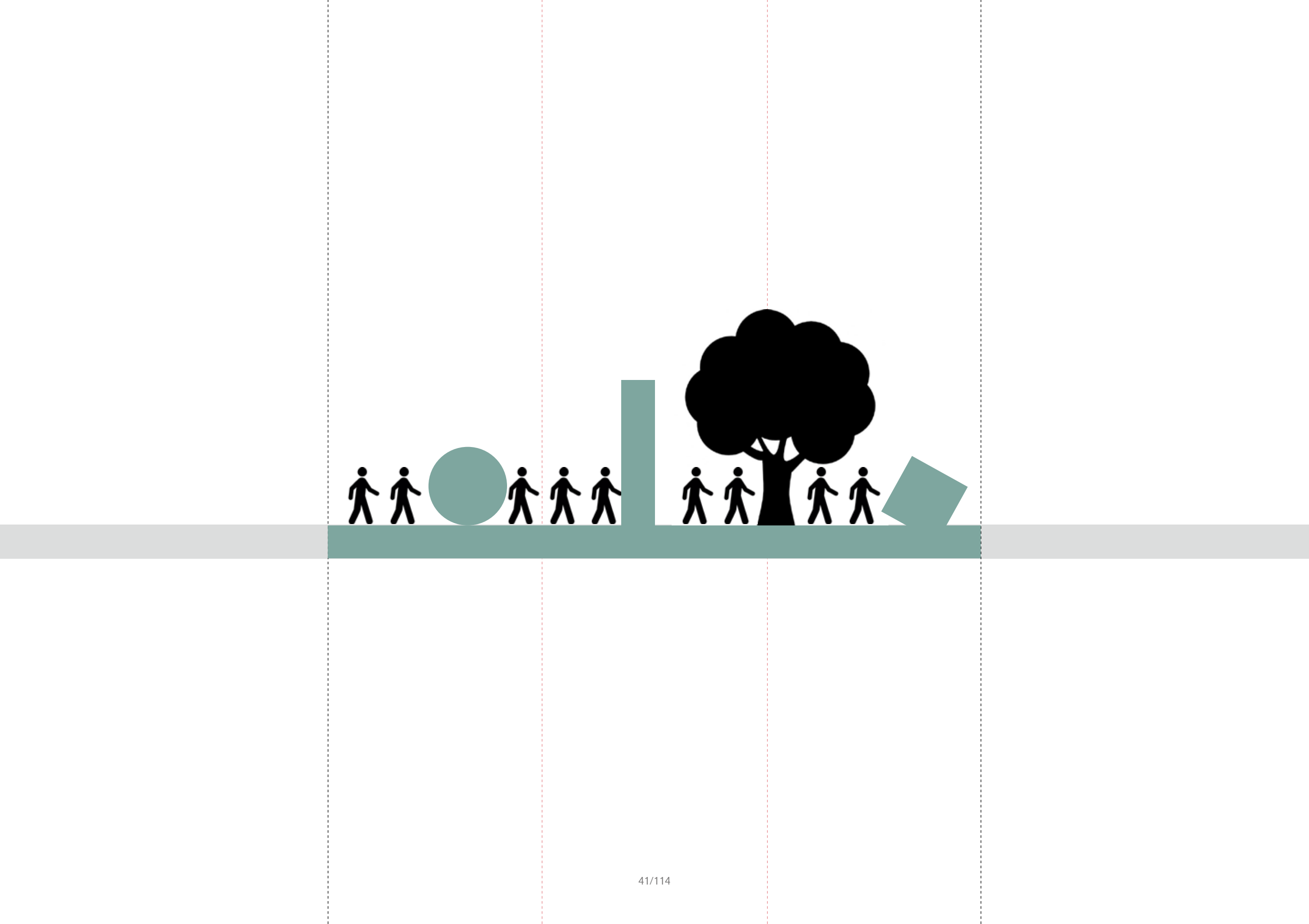
TUNNELS FOR CARS



BRIDGE FOR PEDESTRIAN









MALECON

PARQUE VUELA LAM

VEDADO

MIRAMAR

ALMENDARES RIVER







MALECON

VEDADO

ALMEDARES RIVER

MIRAMAR

ALMEDARES PARK



THE 8TH HAVANA INTERNATIONAL CHARRETTE ON URBAN DESIGN





NEW SQUARE 2016.10

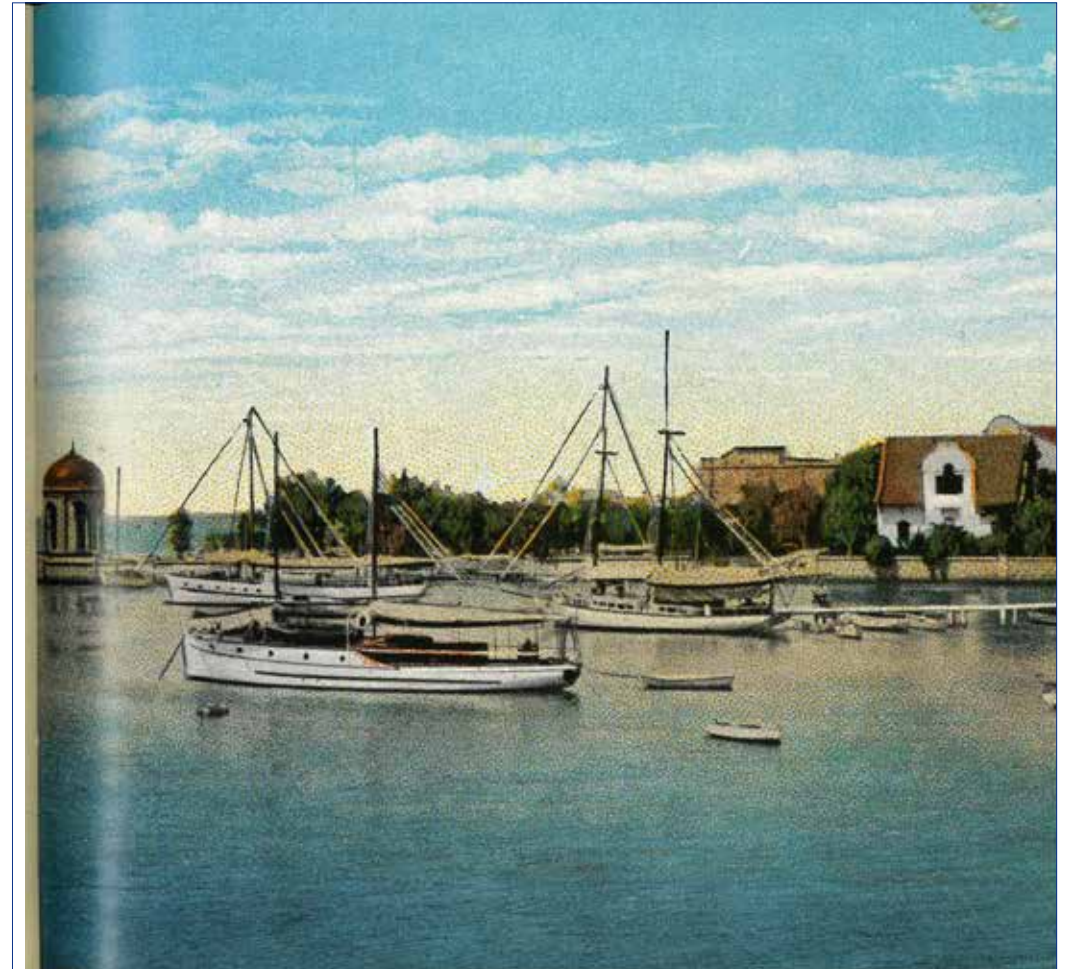


FABRICA 2014





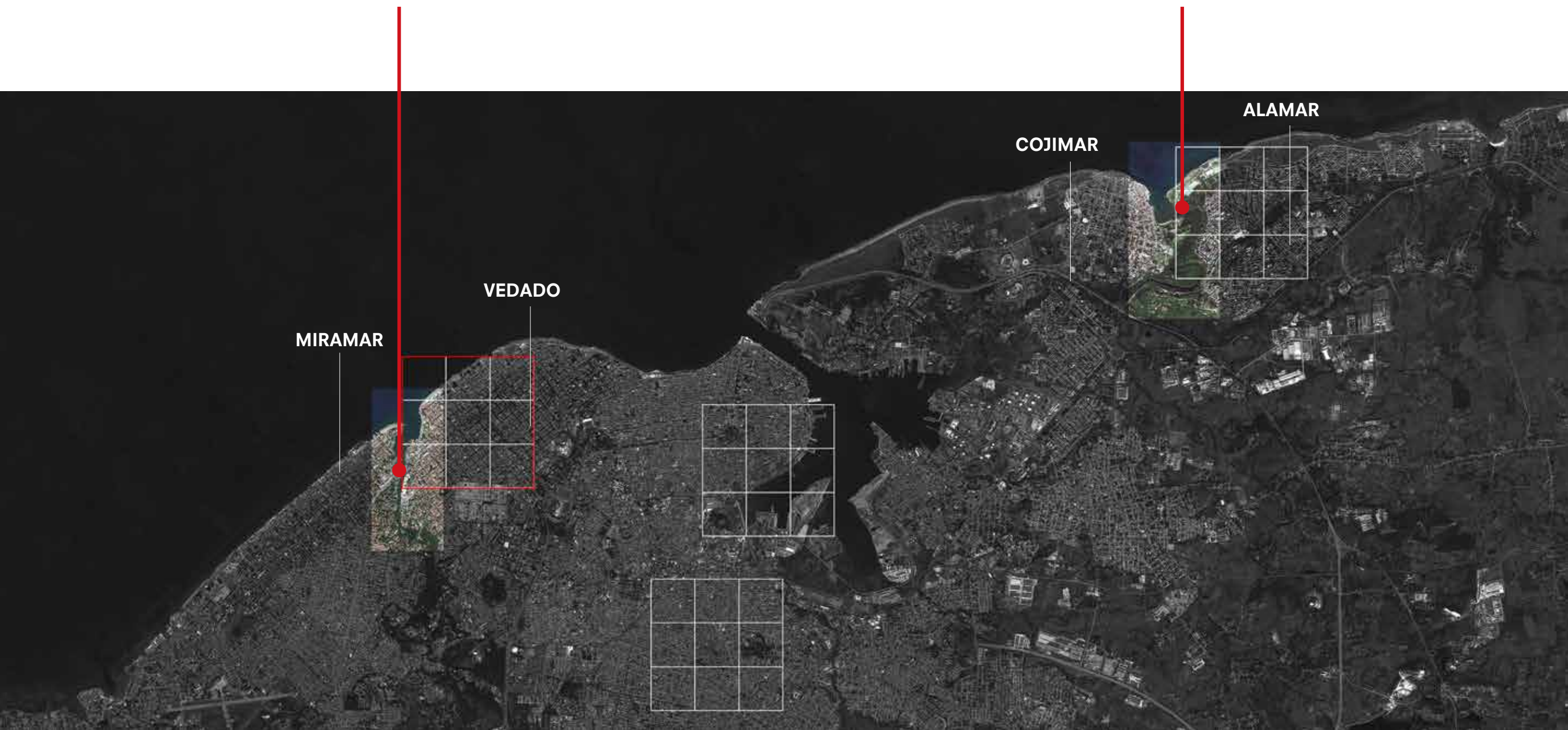
FISHERMAN WAREHOUSES



TWO FISHING POINTS IN HAVANA

1.ALMENDARES RIVER
FISHING POINT

2.COJIMAR RIVER
FISHING POINT







FROM FISHING AREA



MALECON

VEDADO

MIRAMAR

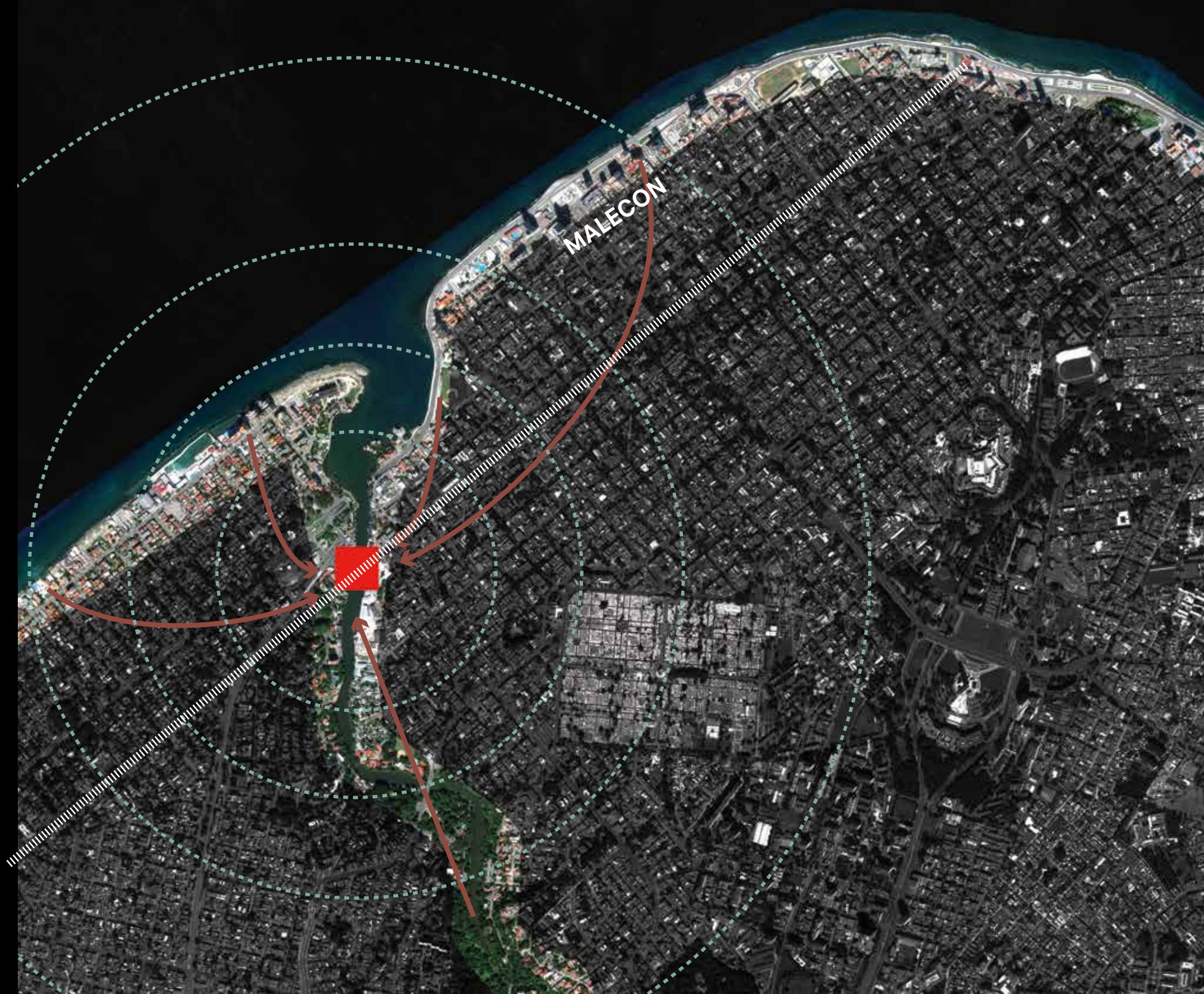
ALMENDARES RIVER

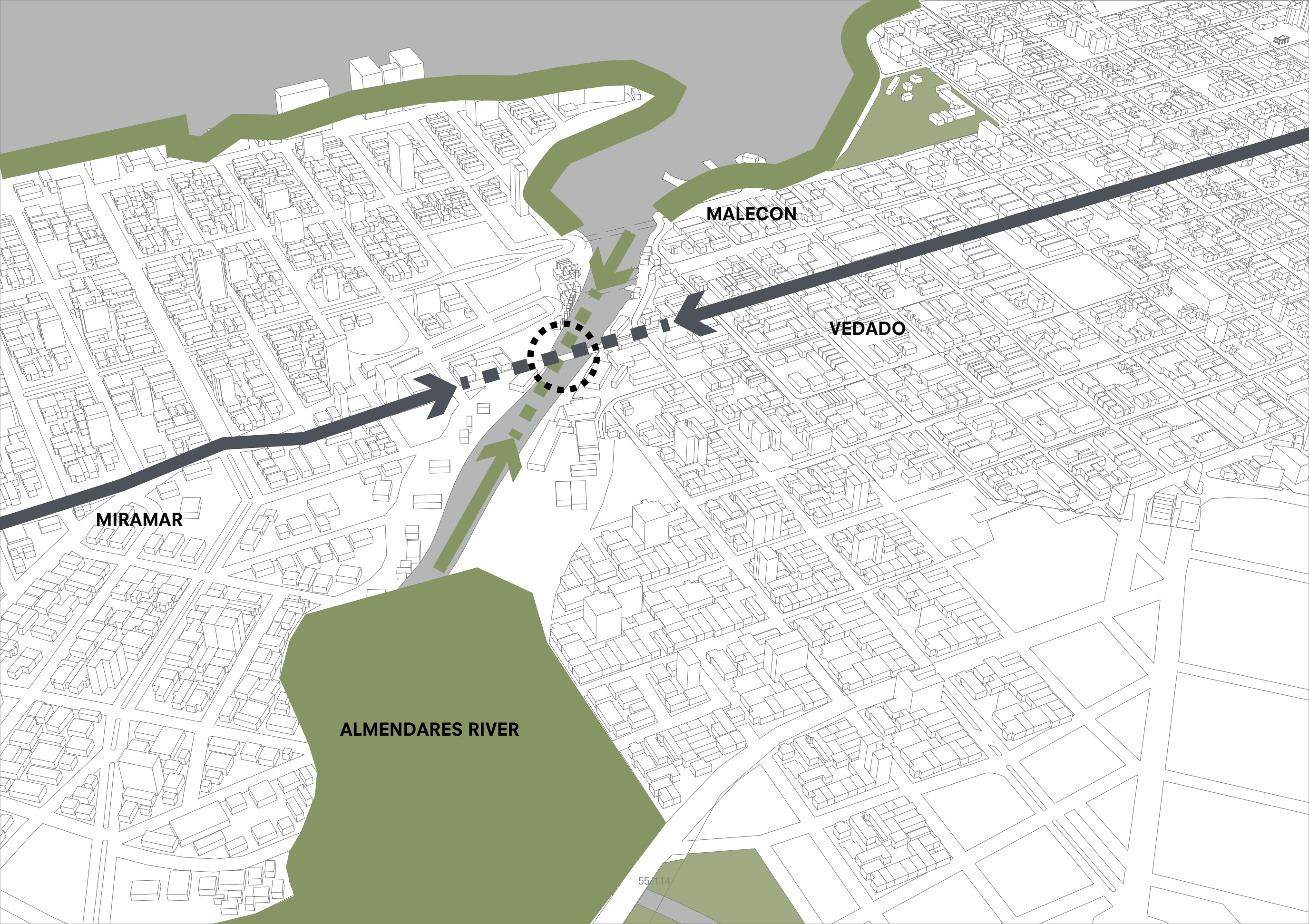


FROM RESIDENTIAL AREA



FROM FISHING AREA





MALECON

VEDADO

MIRAMAR

ALMENDARES RIVER

URBAN STRATEGY

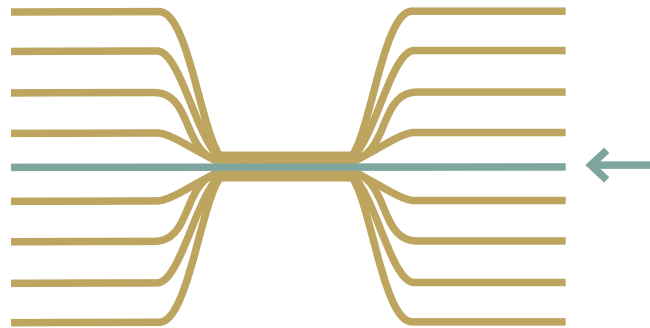
MIRAMAR AND VEDADO ARE
EVEN DISTRICTS

URBAN STRATEGY

MIRAMAR AND VEDADO ARE
EVEN DISTRICTS



PEDESTRIAN FLOWS GATHER
AT CONNECTION POINT
OF TWO DISTRICTS

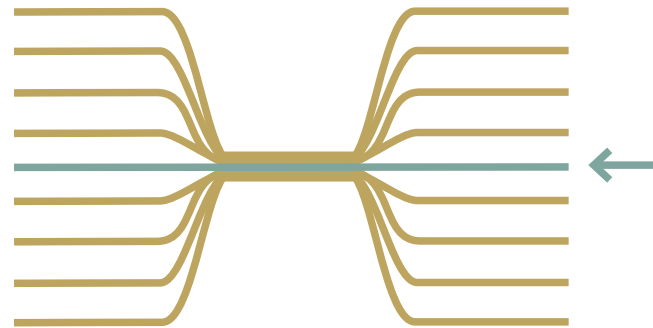


URBAN STRATEGY

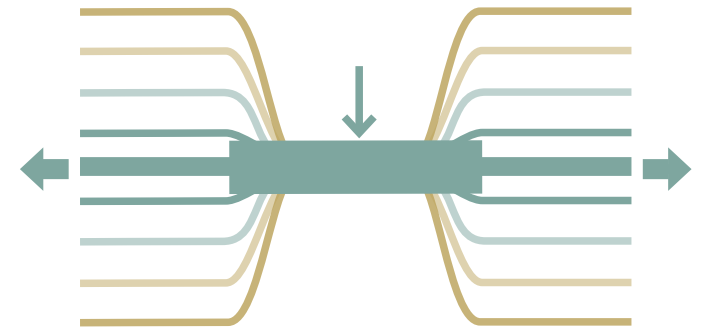
MIRAMAR AND VEDADO ARE
EVEN DISTRICTS



PEDESTRIAN FLOWS GATHER
AT CONNECTION POINT
OF TWO DISTRICTS



STRENGTHEN THIS POINT
AND BRING BACK POSITIVE
INFLUENCES TO URBAN AREA





ALONG THE RIVER DURING THE QINGMING FESTIVAL, ZHANGZEDUAN, 1101

1.BRIDGE

CHARLES BRIDGE, PRAGUE, CZECH REPUBLIC 1357



10M

RIALTO BRIDGE, VENICE 1524



20M

-INDUSTRIAL REVOLUTION 1800-

TOWER BRIDGE, LONDON 1894



20M

GOLDEN GATE BRIDGE 1937



27M

AKASHI KAIKYT BRIDGE, JAPAN 1998



35M

MILLAU VIADUCT, MILLAU, FRANCE 2004



32M

-WHO 2000-

D.C.'S 11TH STREET BRIDGE PARK, OMA 2014



25-60M

D.C.'S 11TH STREET BRIDGE PARK, OMA, 2014



18518M²



2. WATER



FAABORG HARBOR BATH

JDS, URBAN AGENCY, CREO ARKITEKTER A/S
FAABORG, DENMARK
2100.0 SQM
2014

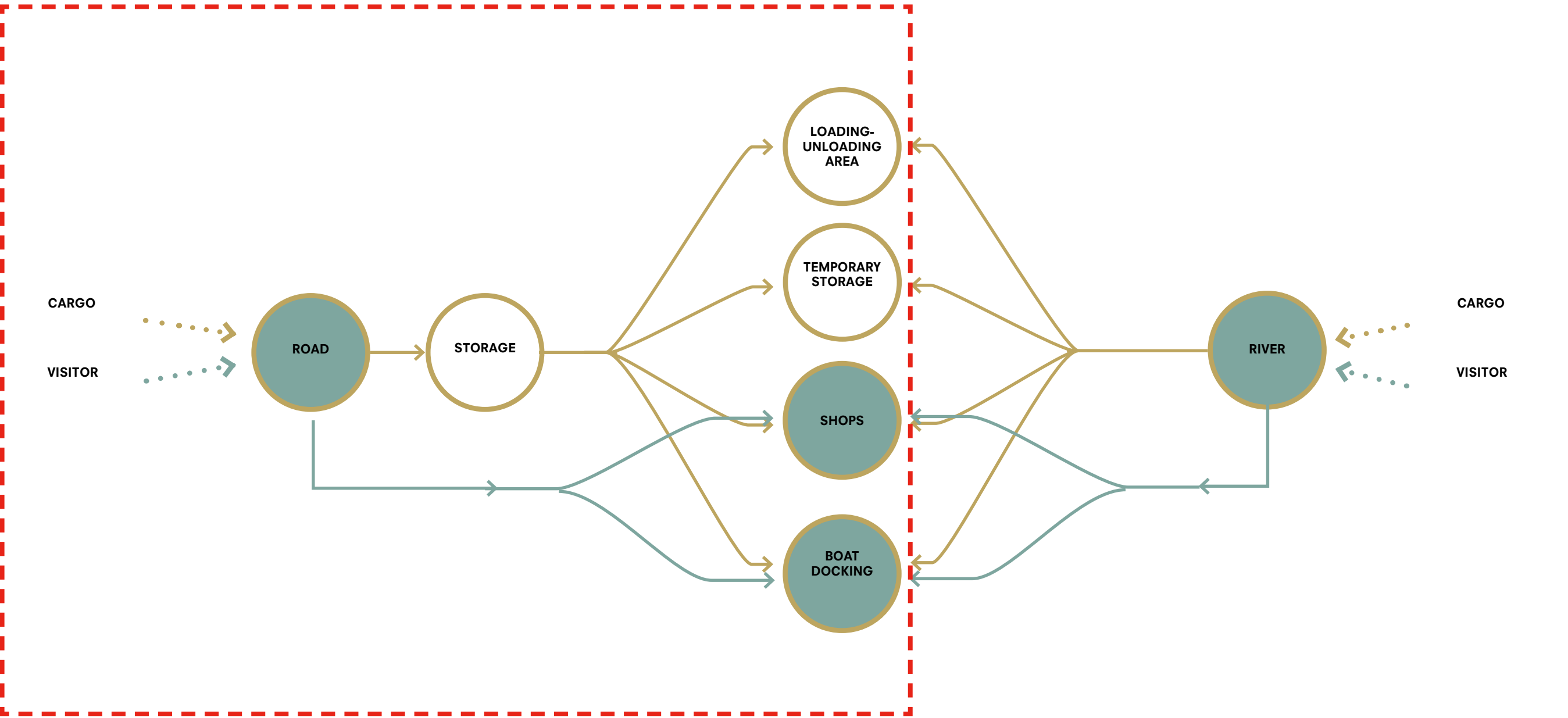




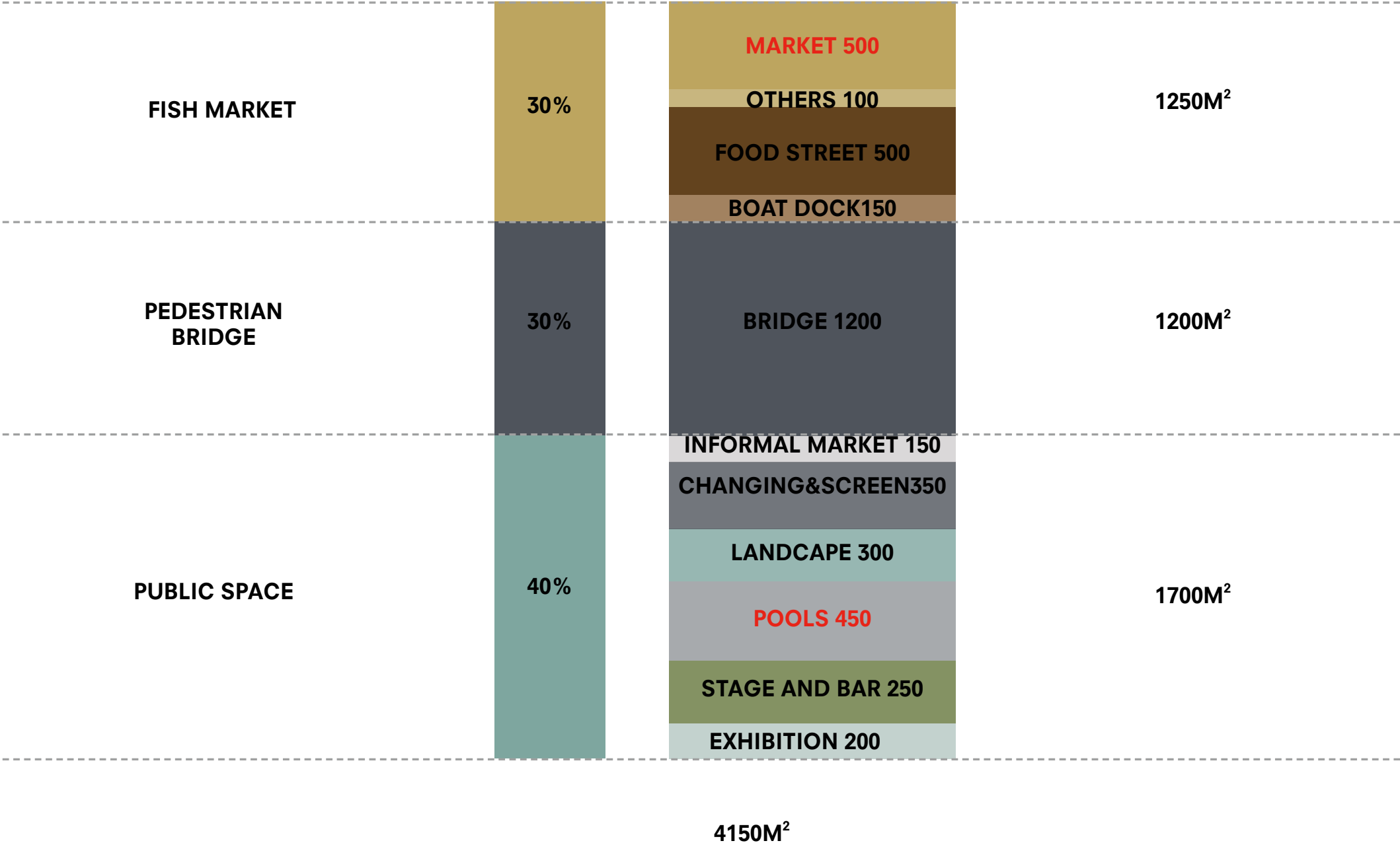
FLOATING MARKET



NORMAL MARKET



PROGRAM DISTRIBUTION



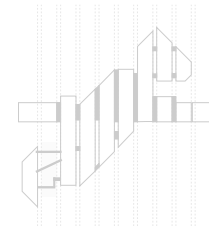
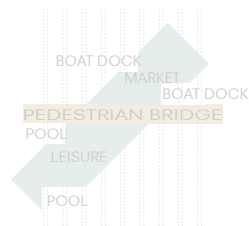
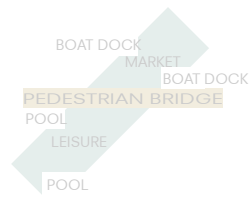
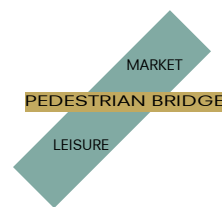


RIVER
LANDSCAPE
LEISURE
SLOW
PUBLIC SPACE

MARKET

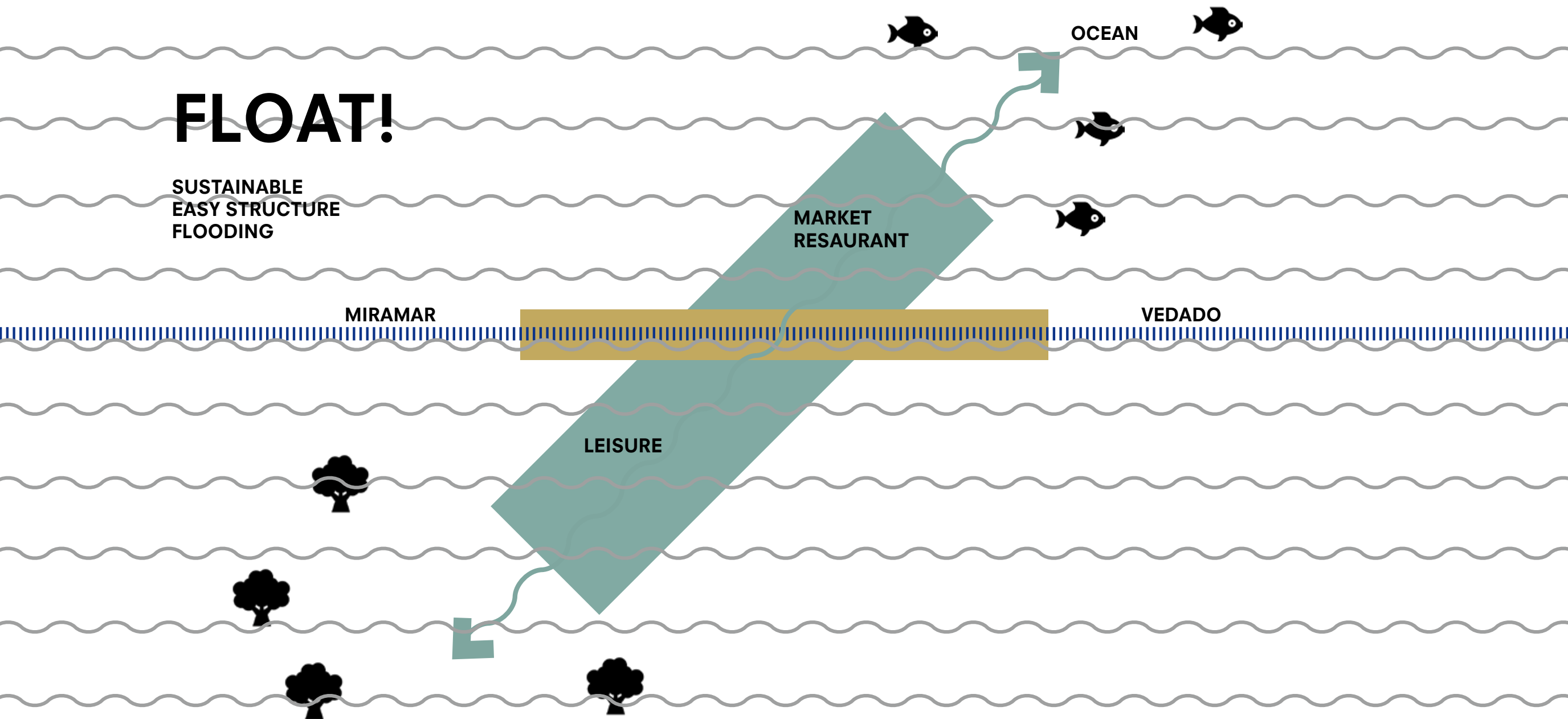
LEISURE

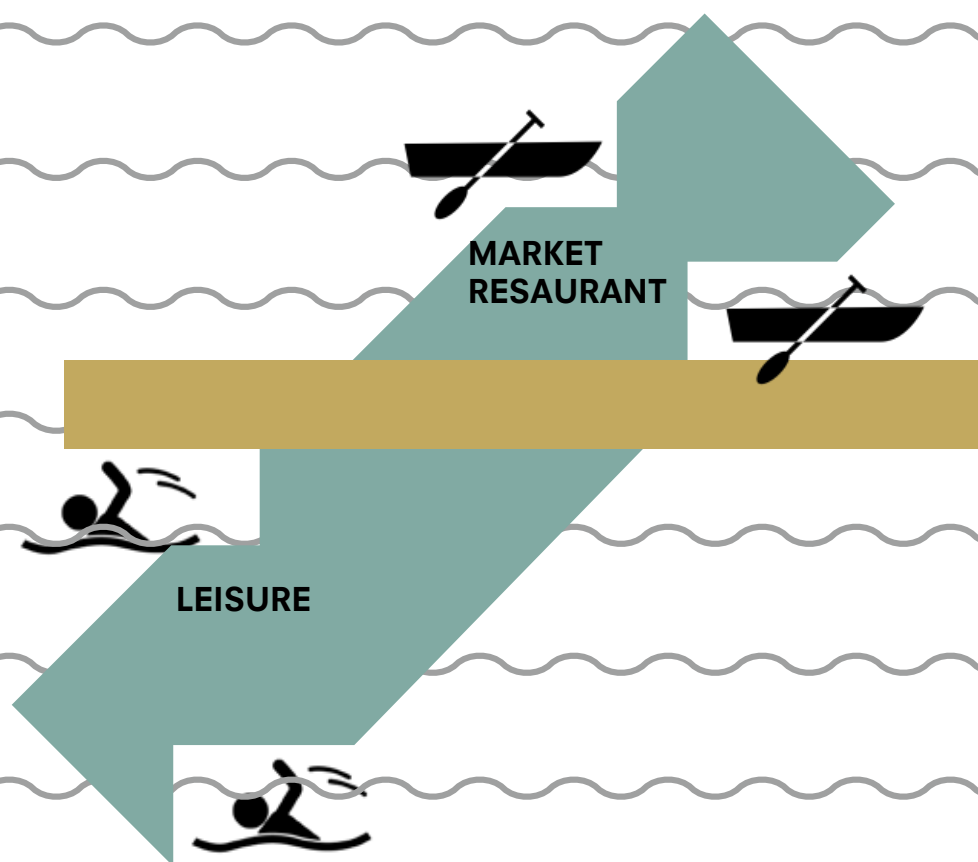
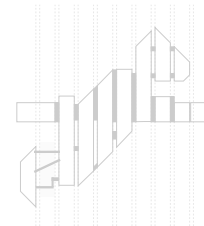
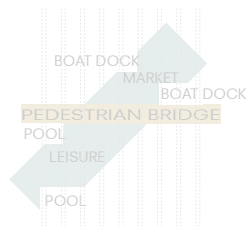
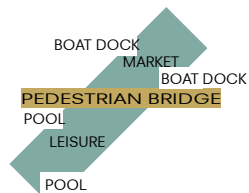
ROAD
TRANSPORT
COMMUTE
FAST
BRIDGE

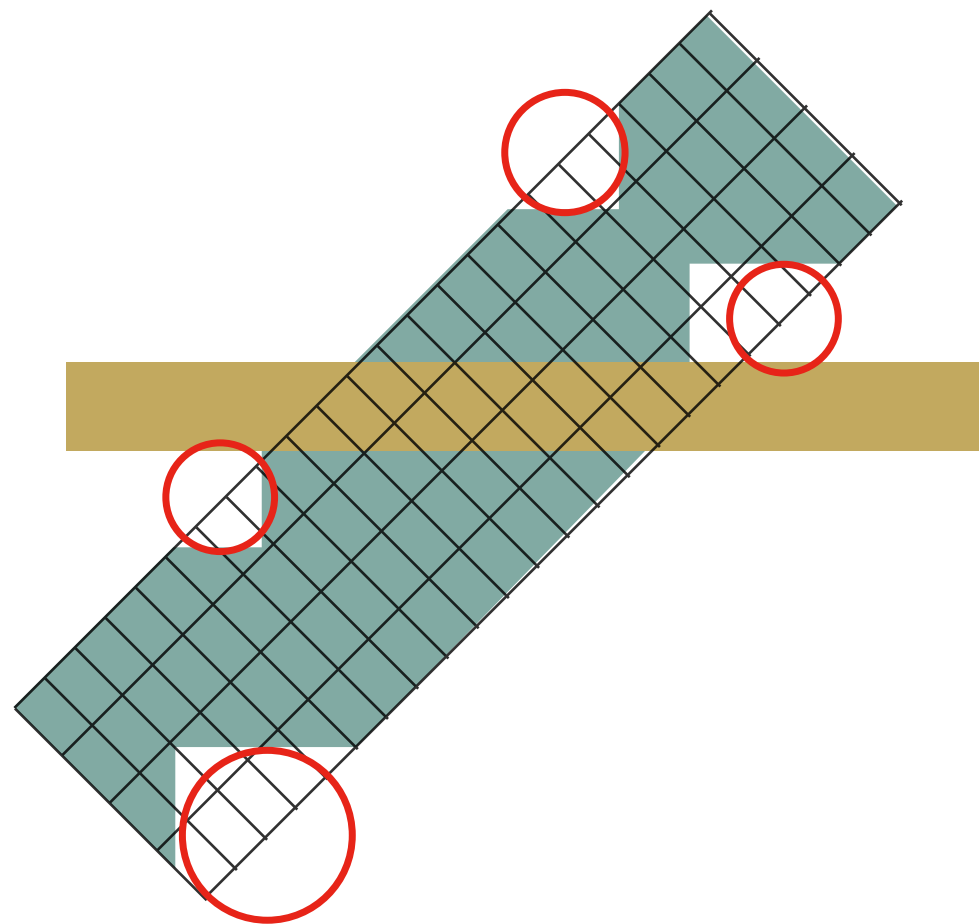
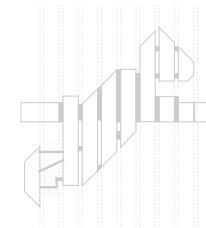
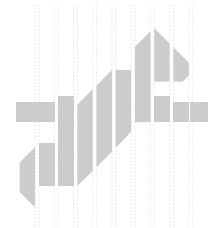
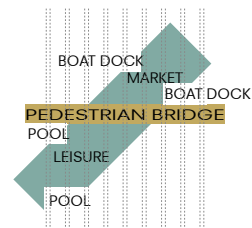
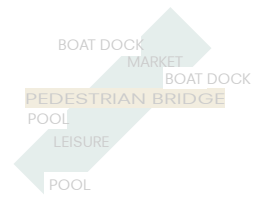


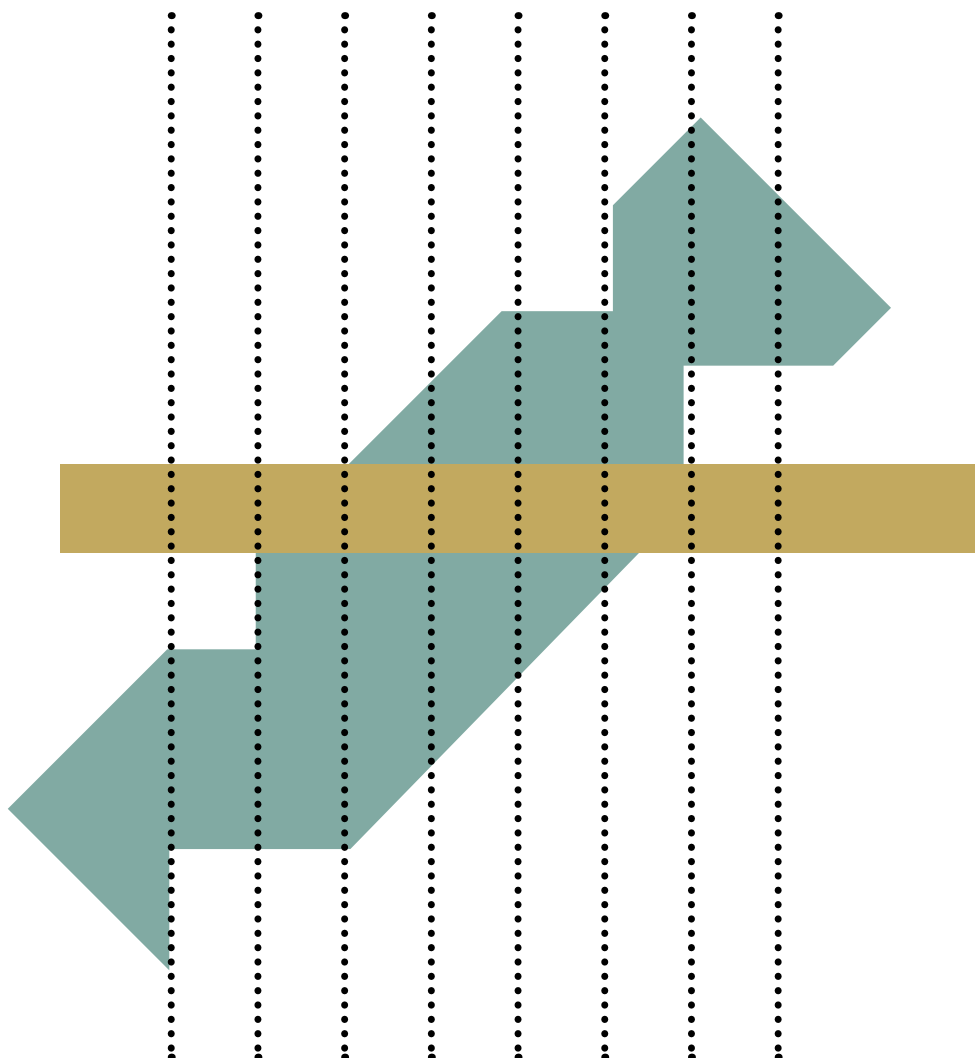
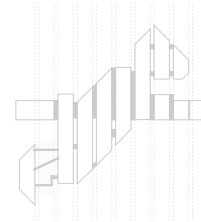
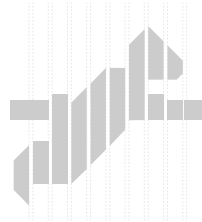
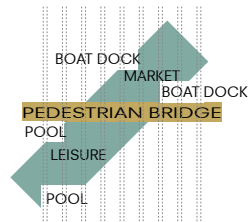
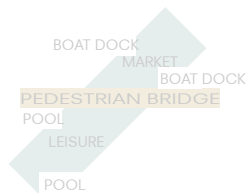
FLOAT!

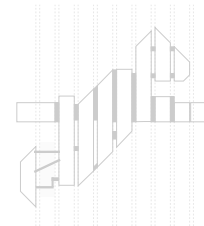
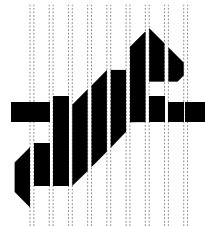
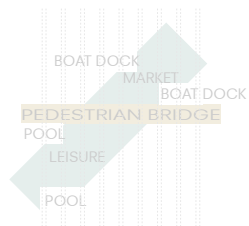
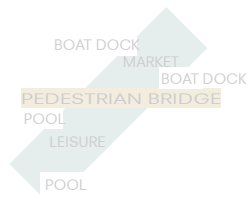
SUSTAINABLE
EASY STRUCTURE
FLOODING



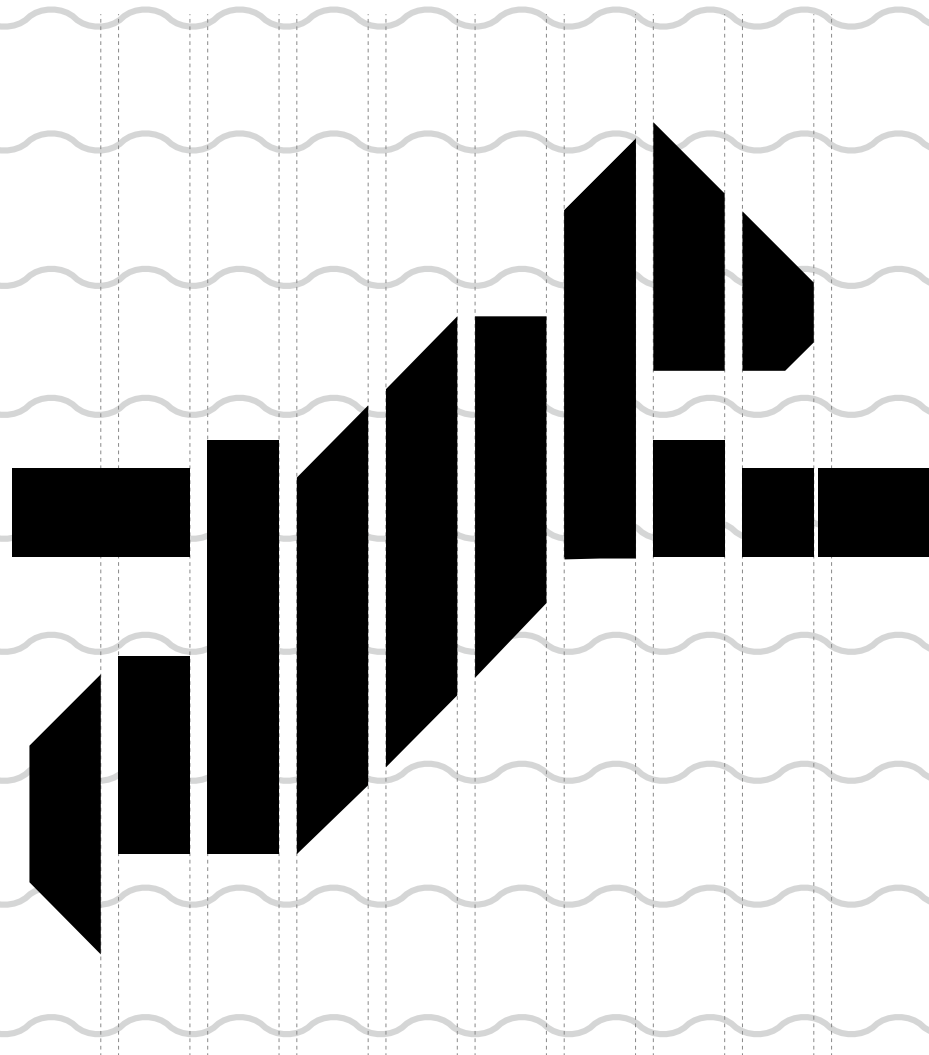


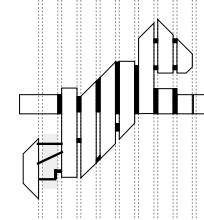
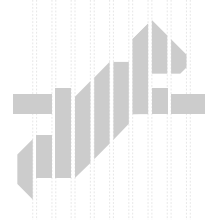
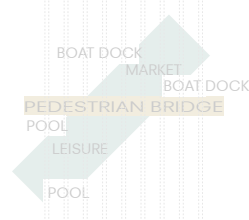
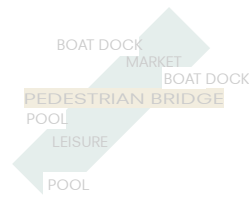




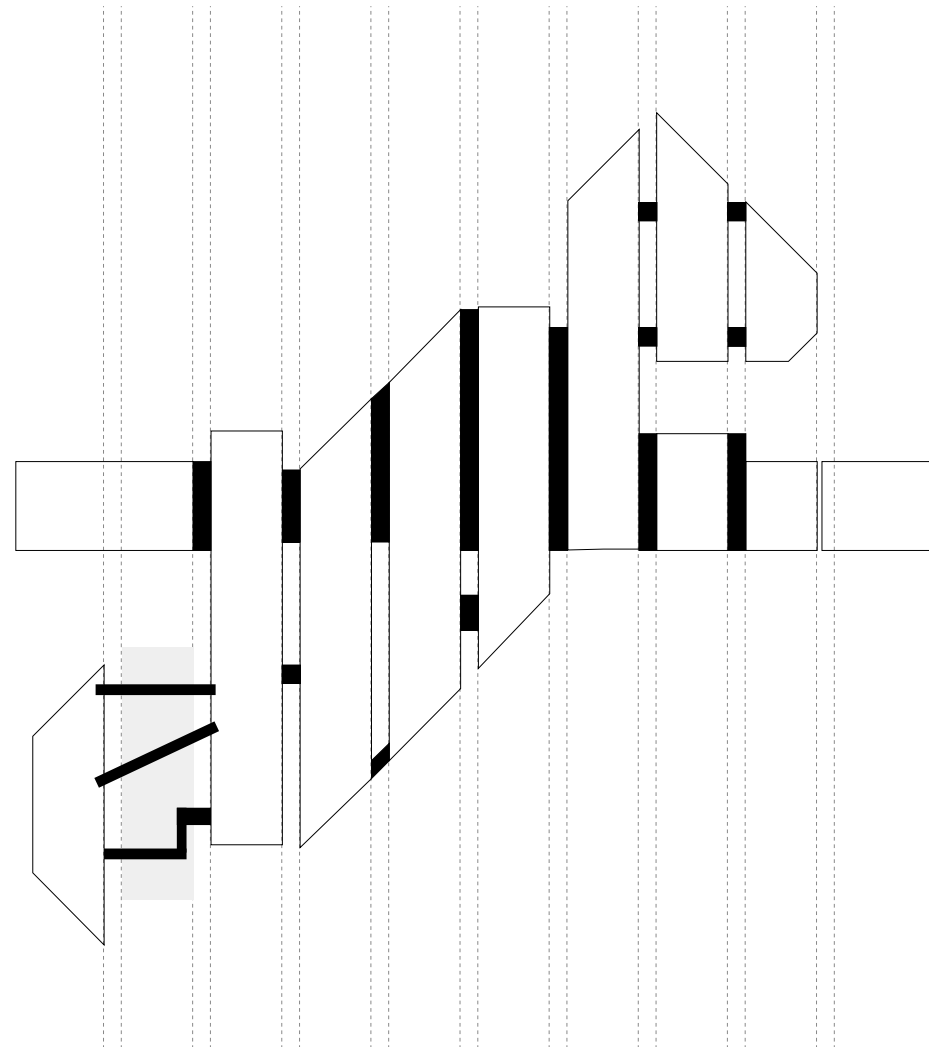


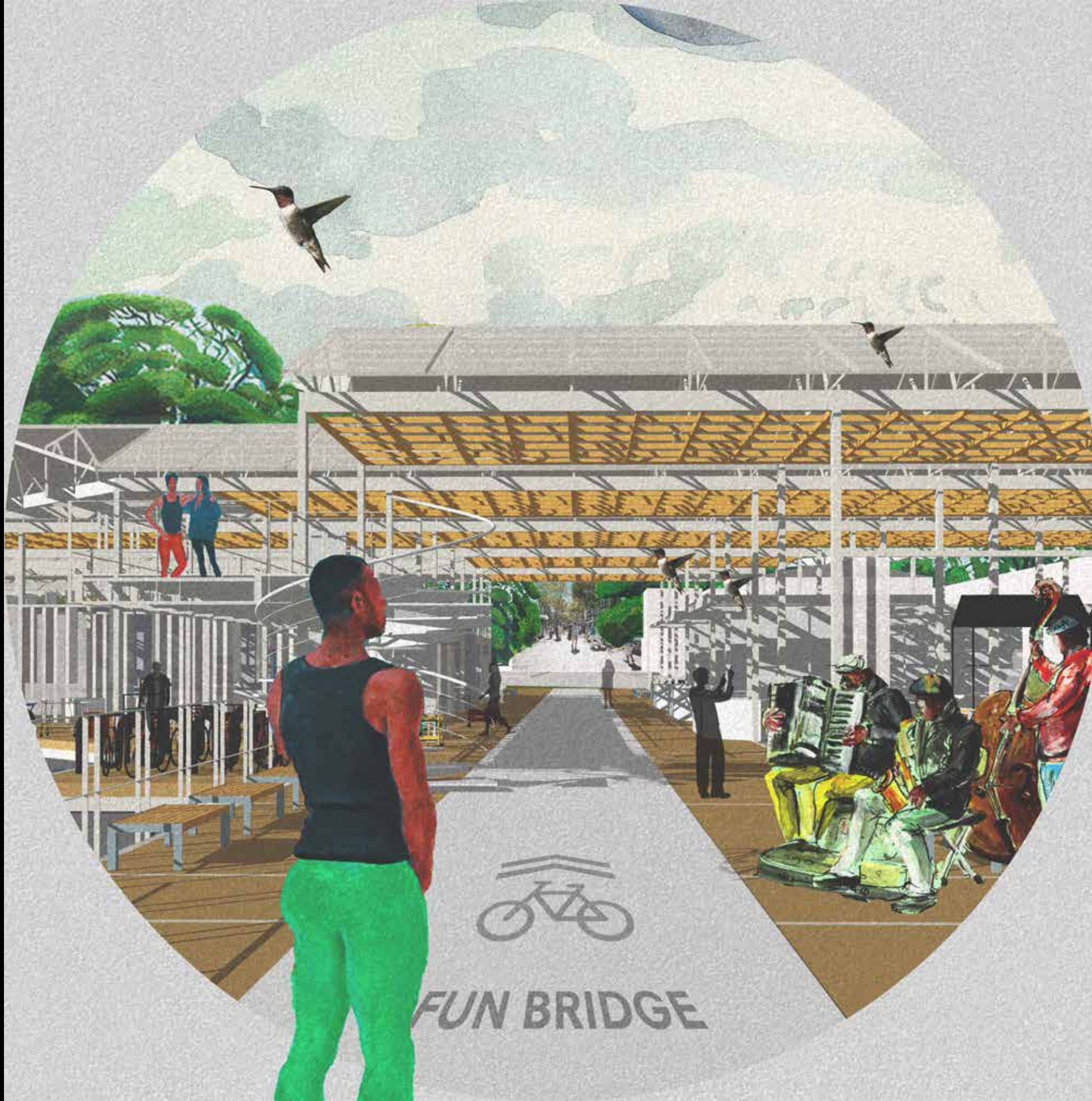
BARGES ON WATER



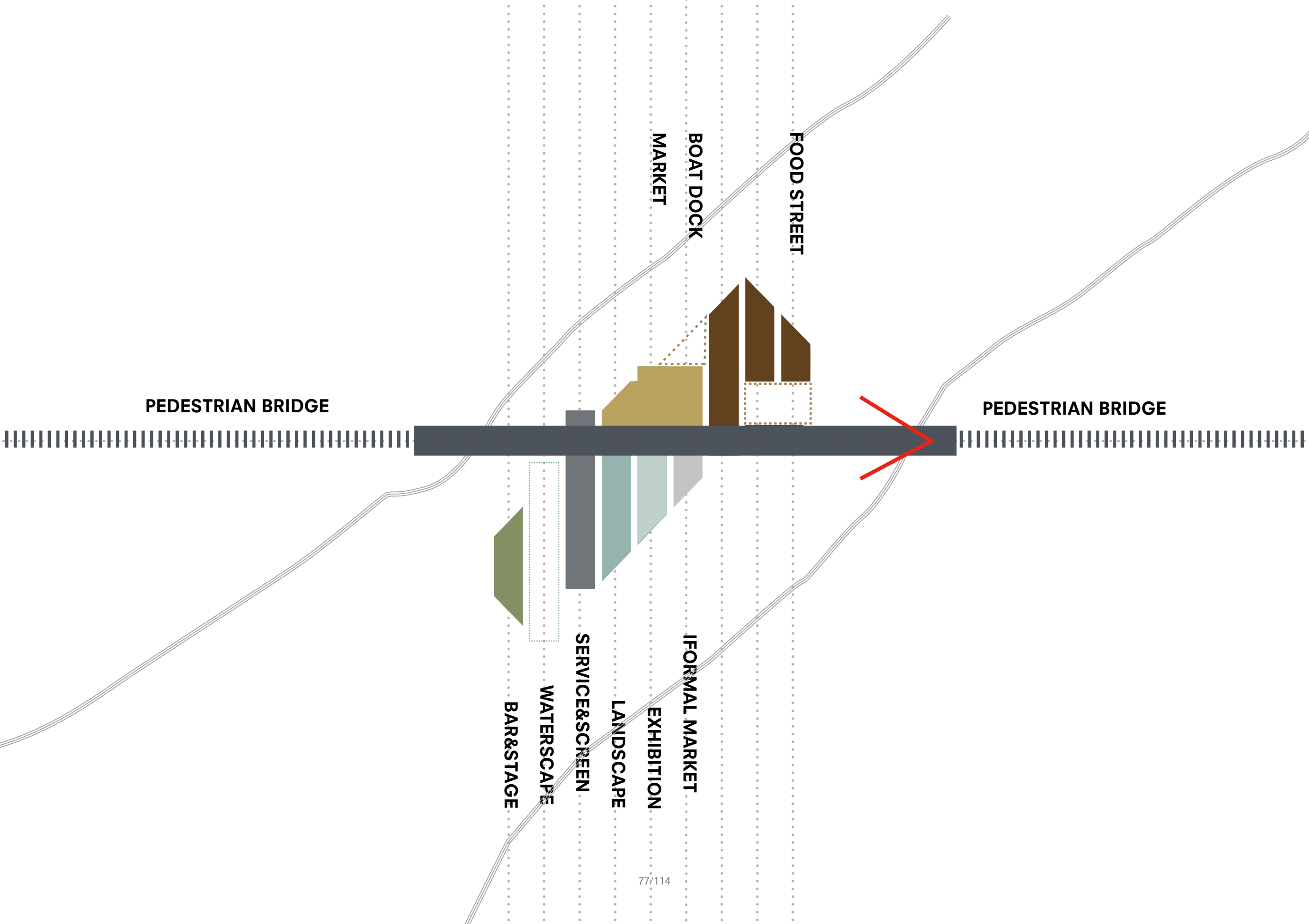


CONNECTIONS





FUN BRIDGE



PEDESTRIAN BRIDGE

PEDESTRIAN BRIDGE

FOOD STREET

BOAT DOCK

MARKET

FORMAL MARKET

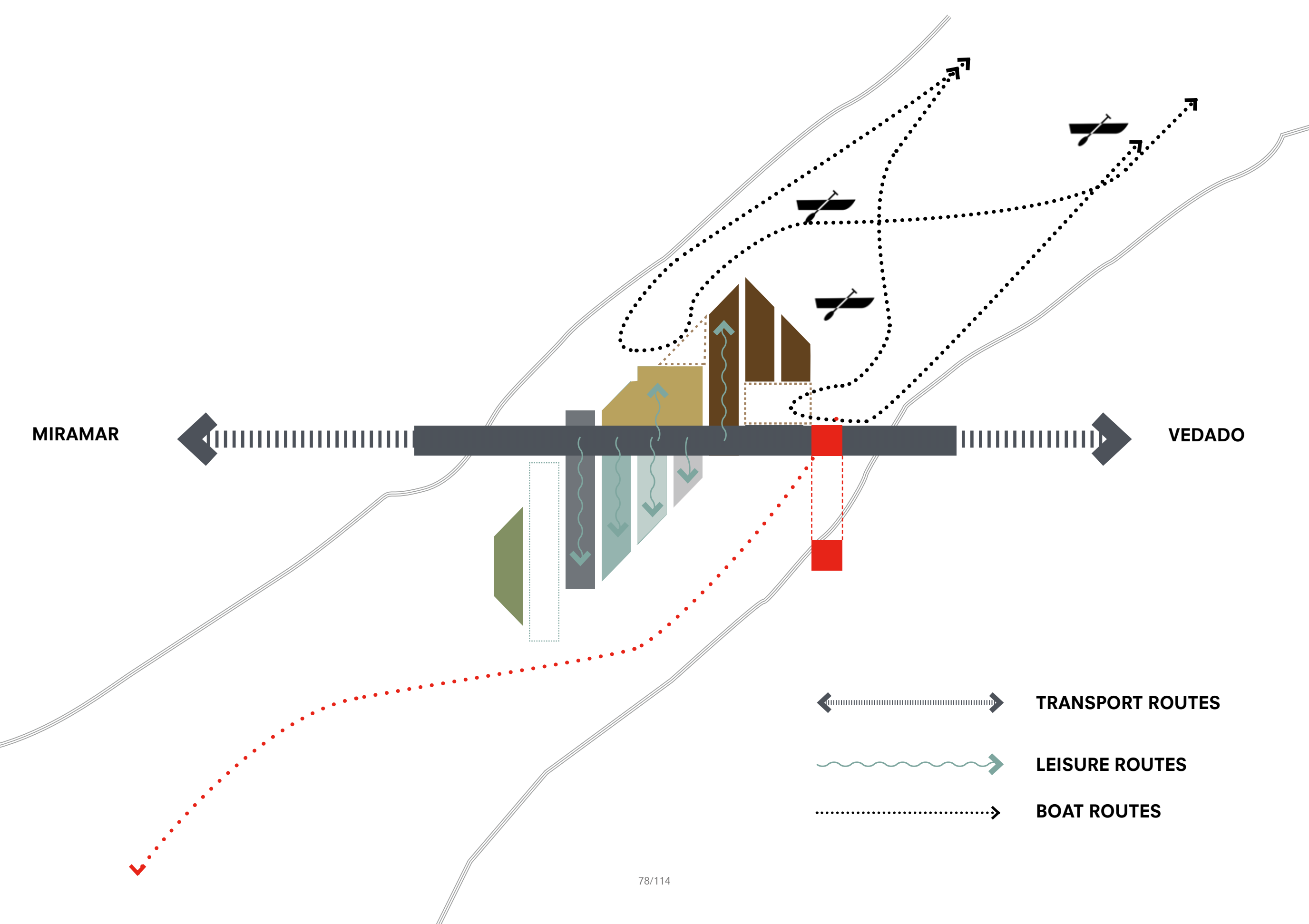
EXHIBITION

LANDSCAPE

SERVICE & SCREEN

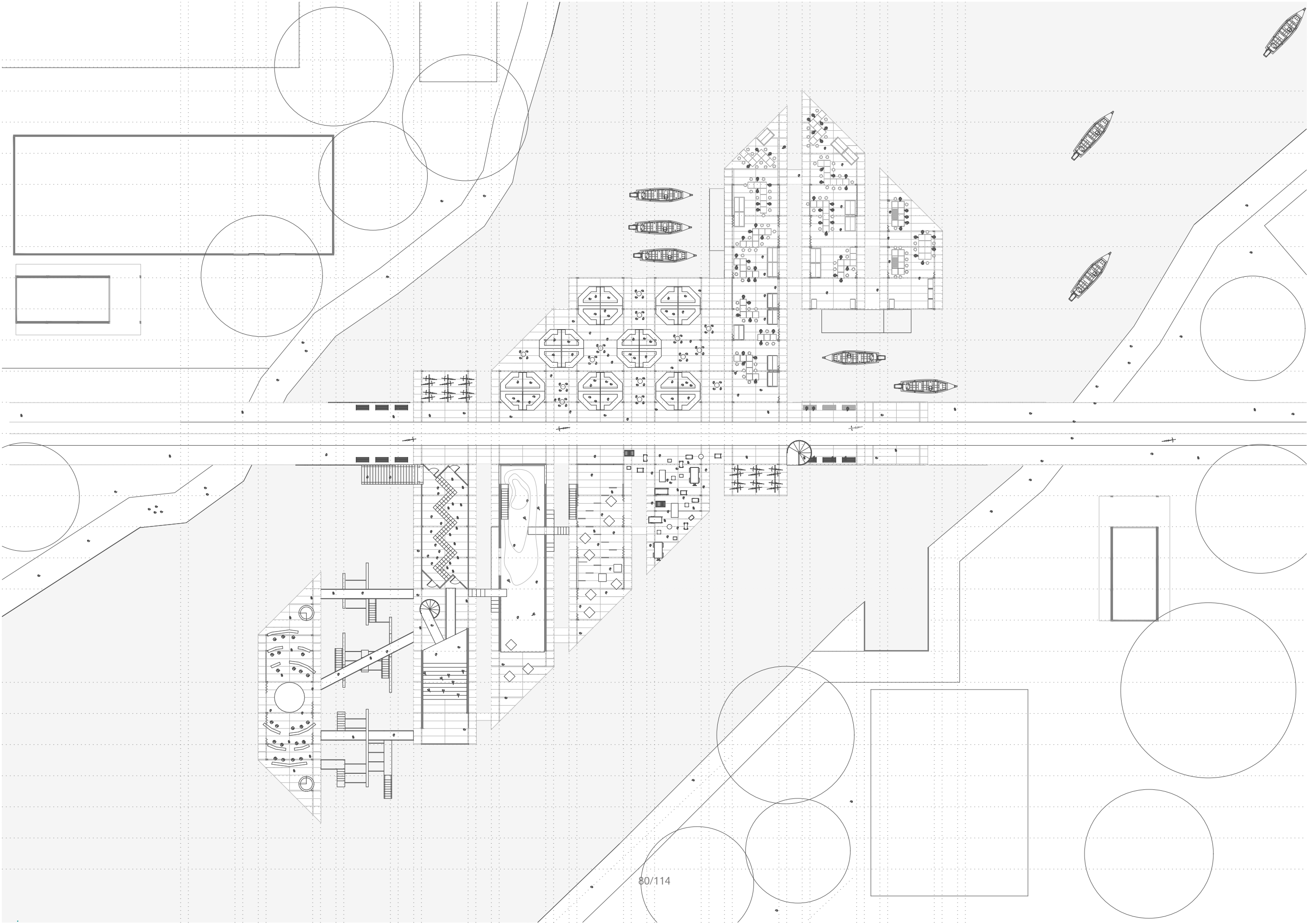
WATERSCAPE

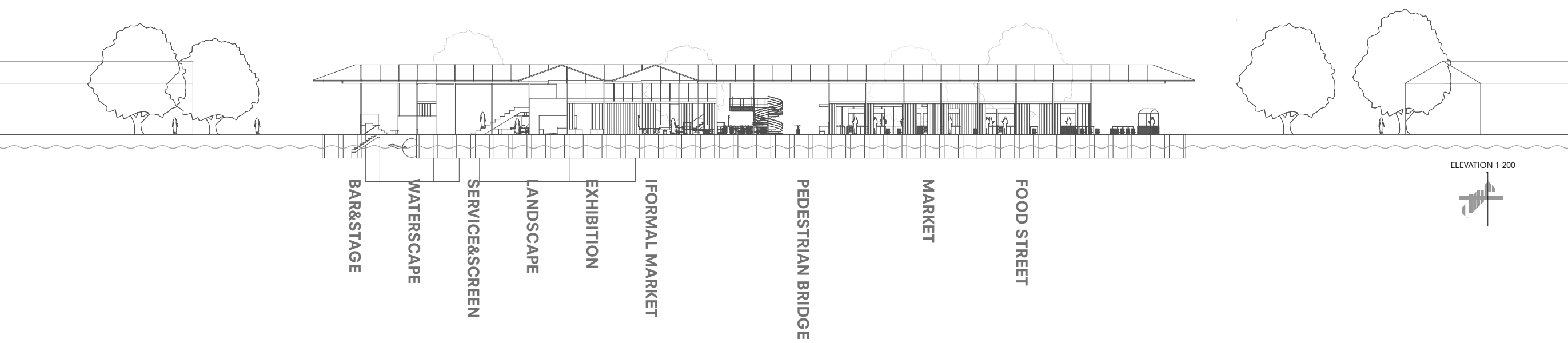
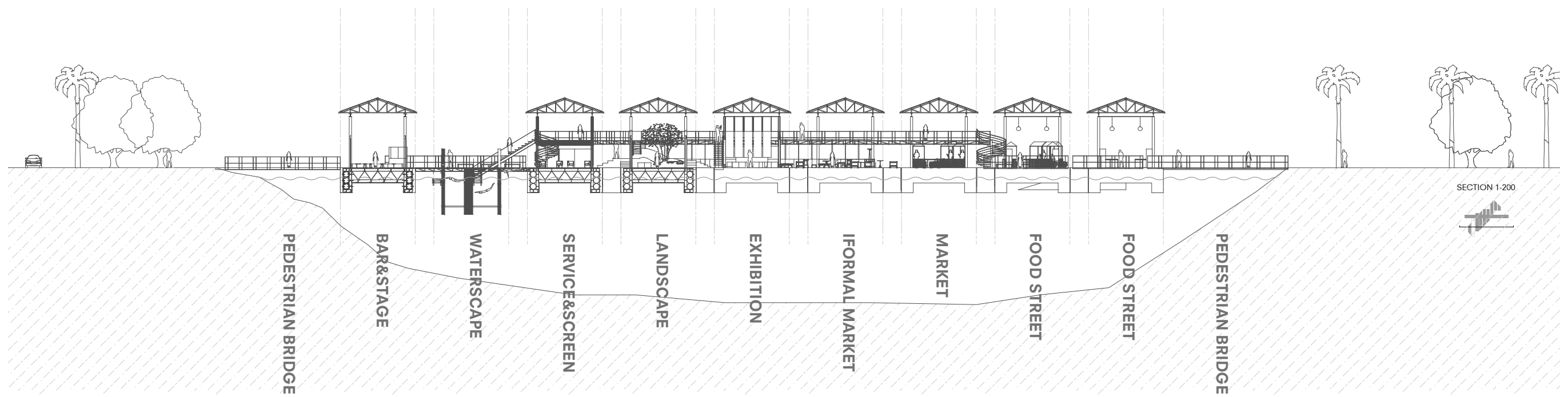
BAR & STAGE

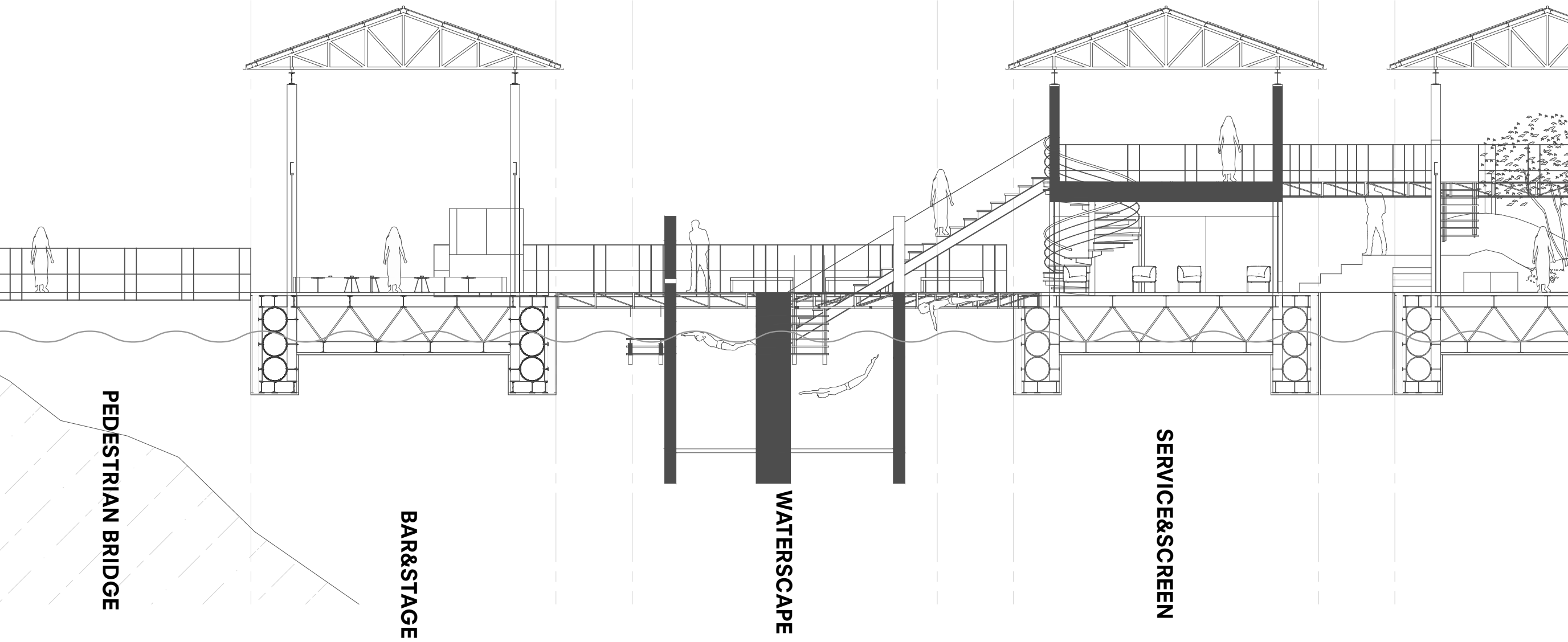


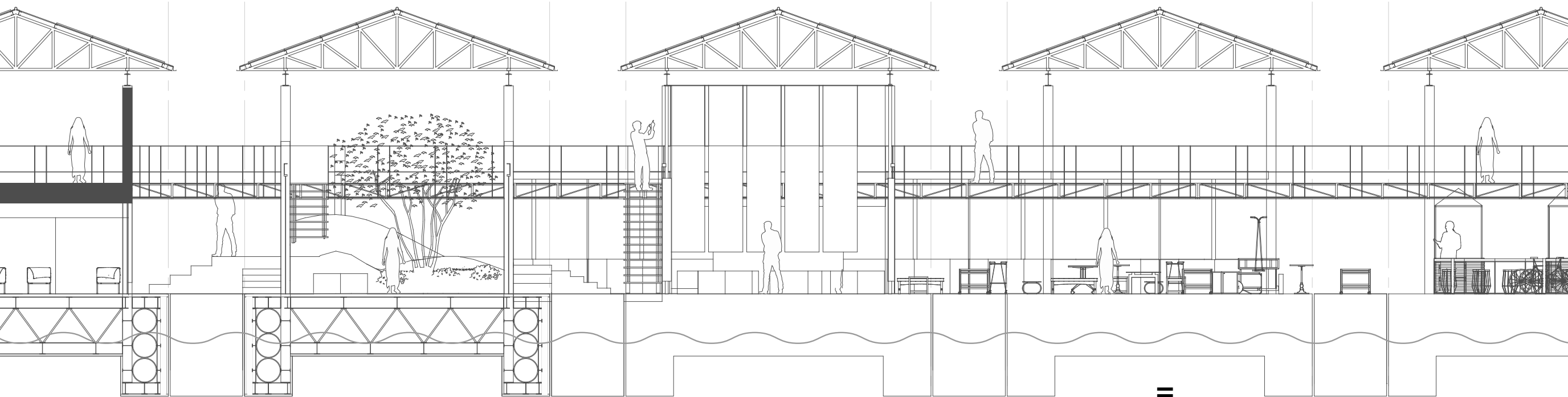


SITE PLAN 1-500





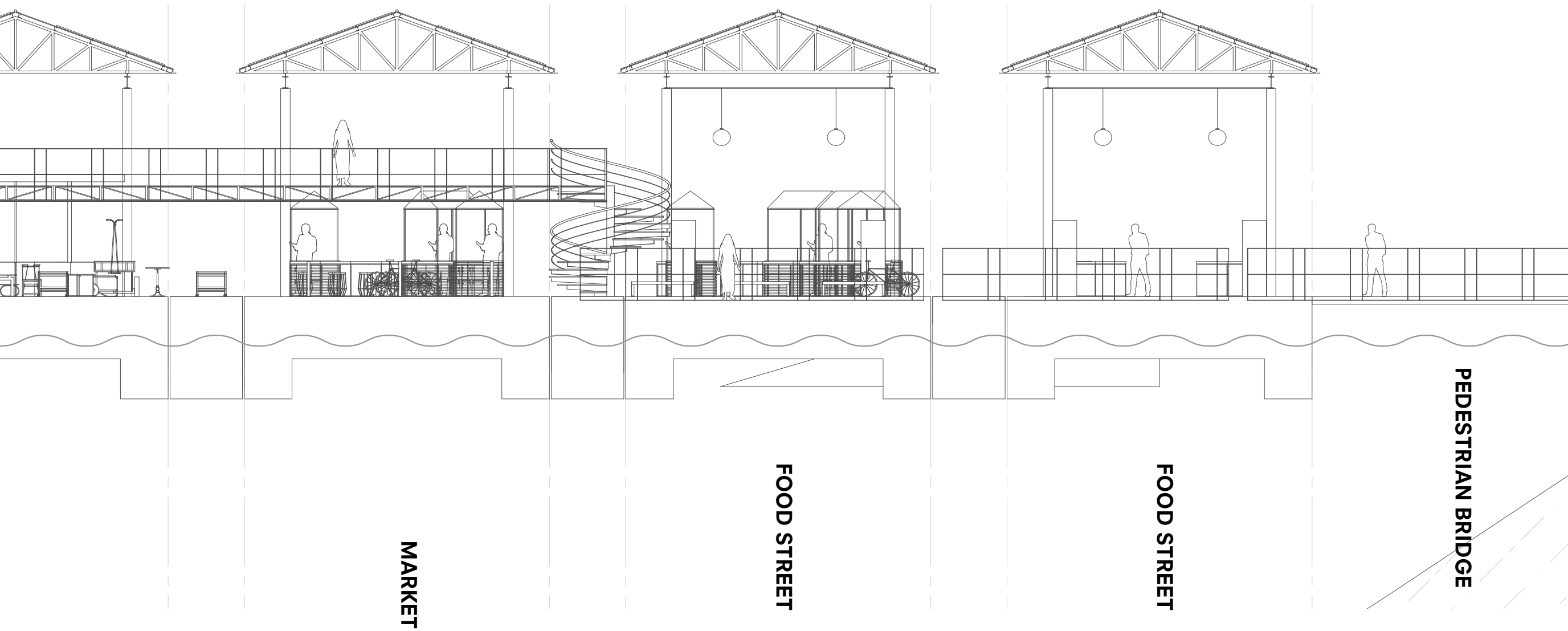


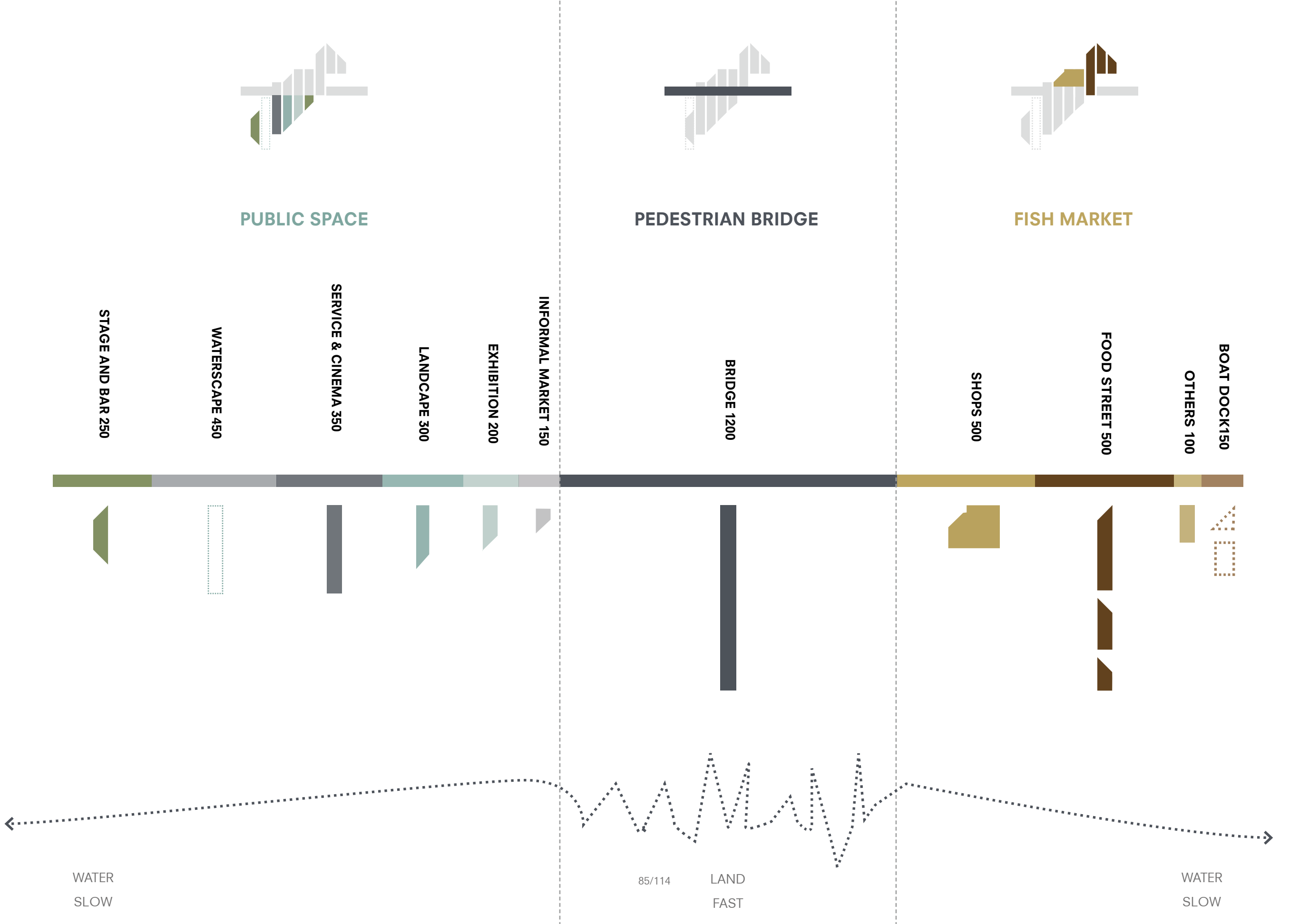


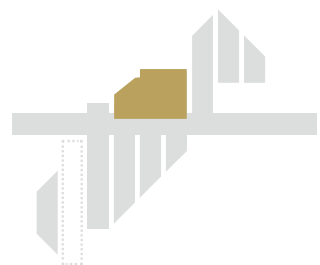
LANDSCAPE

EXHIBITION

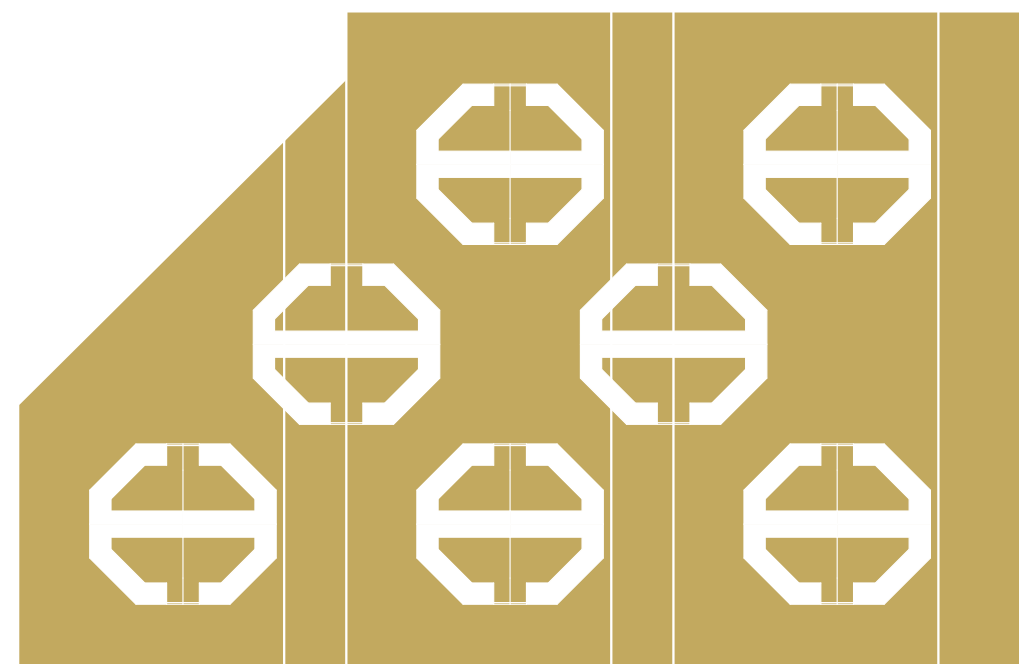
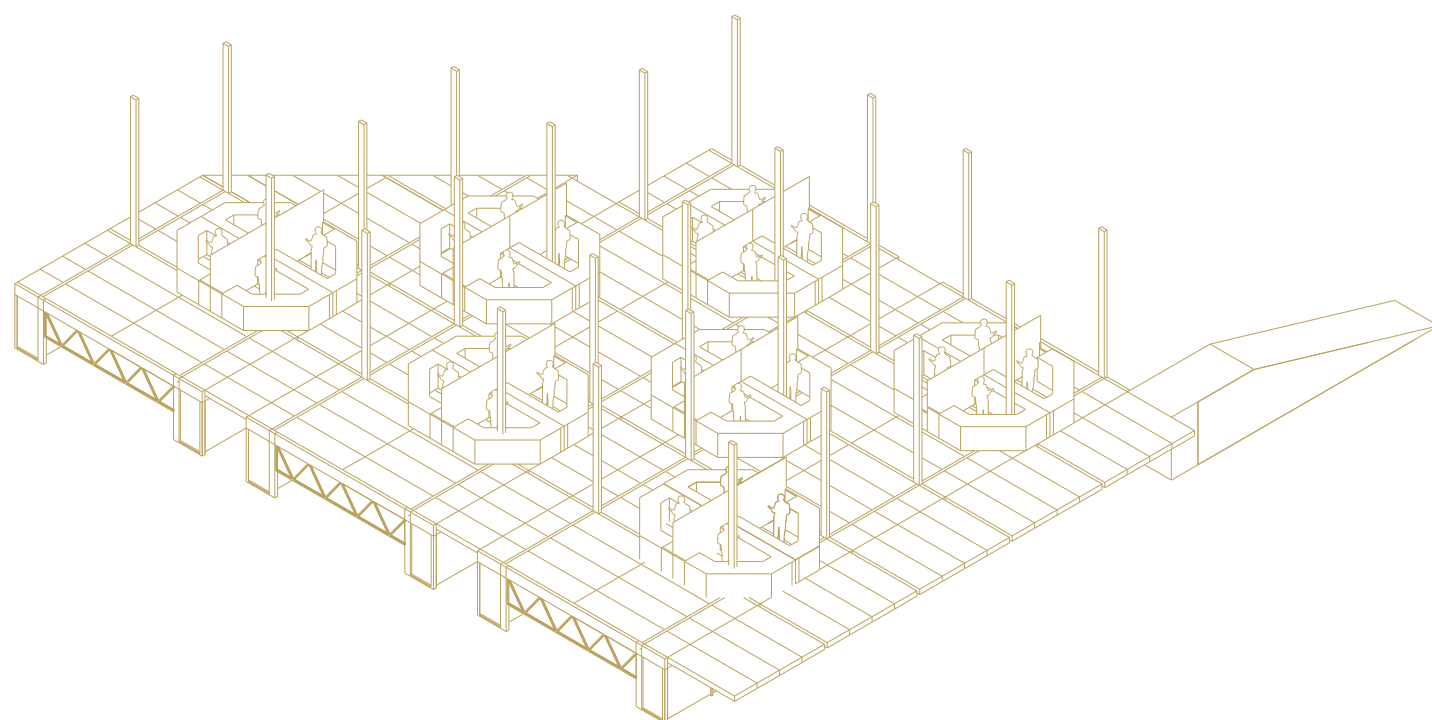
IFORMAL MARKET

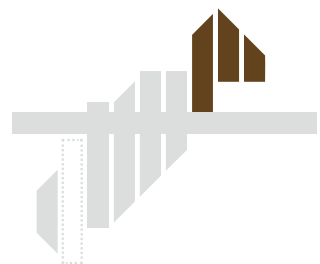




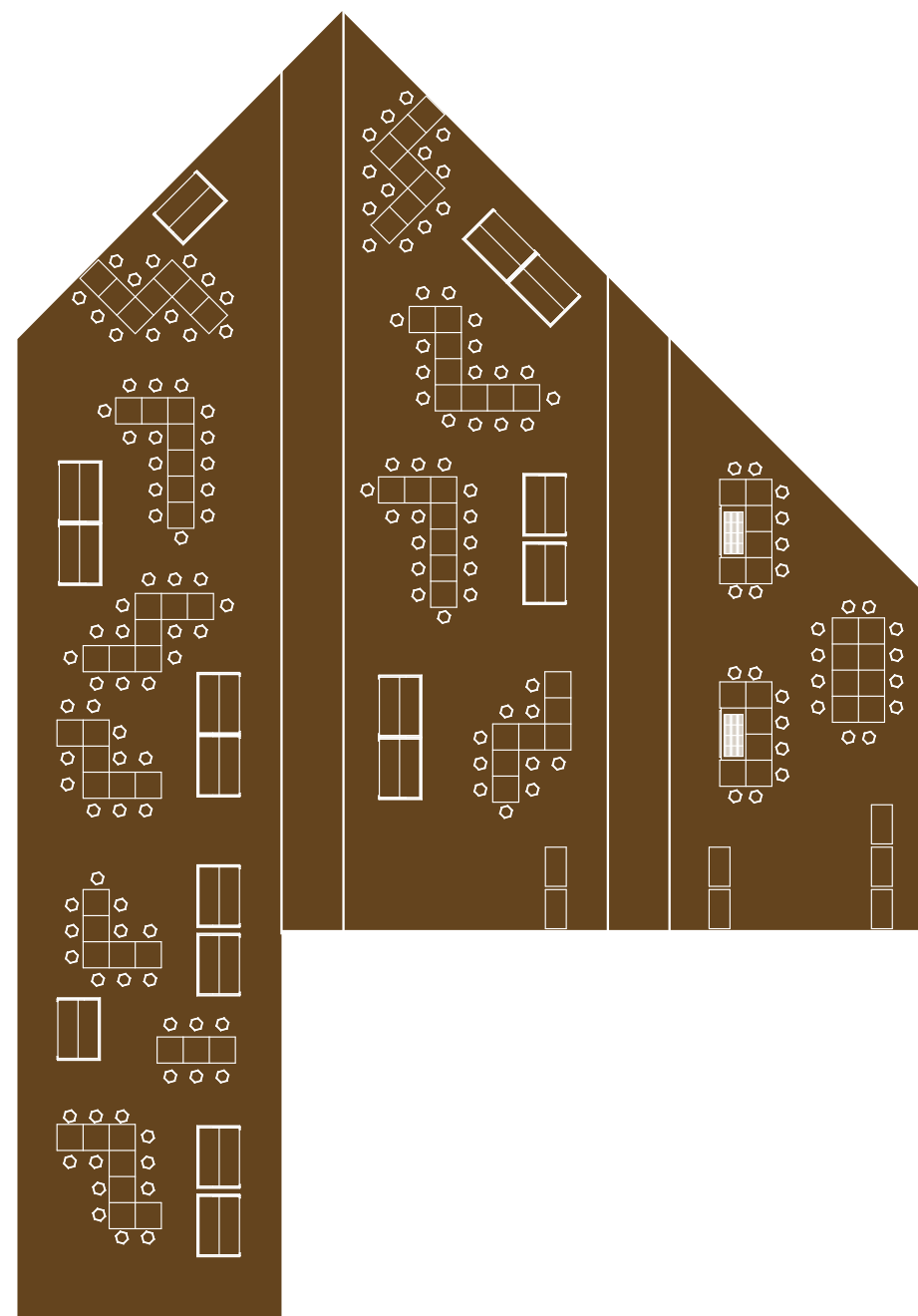
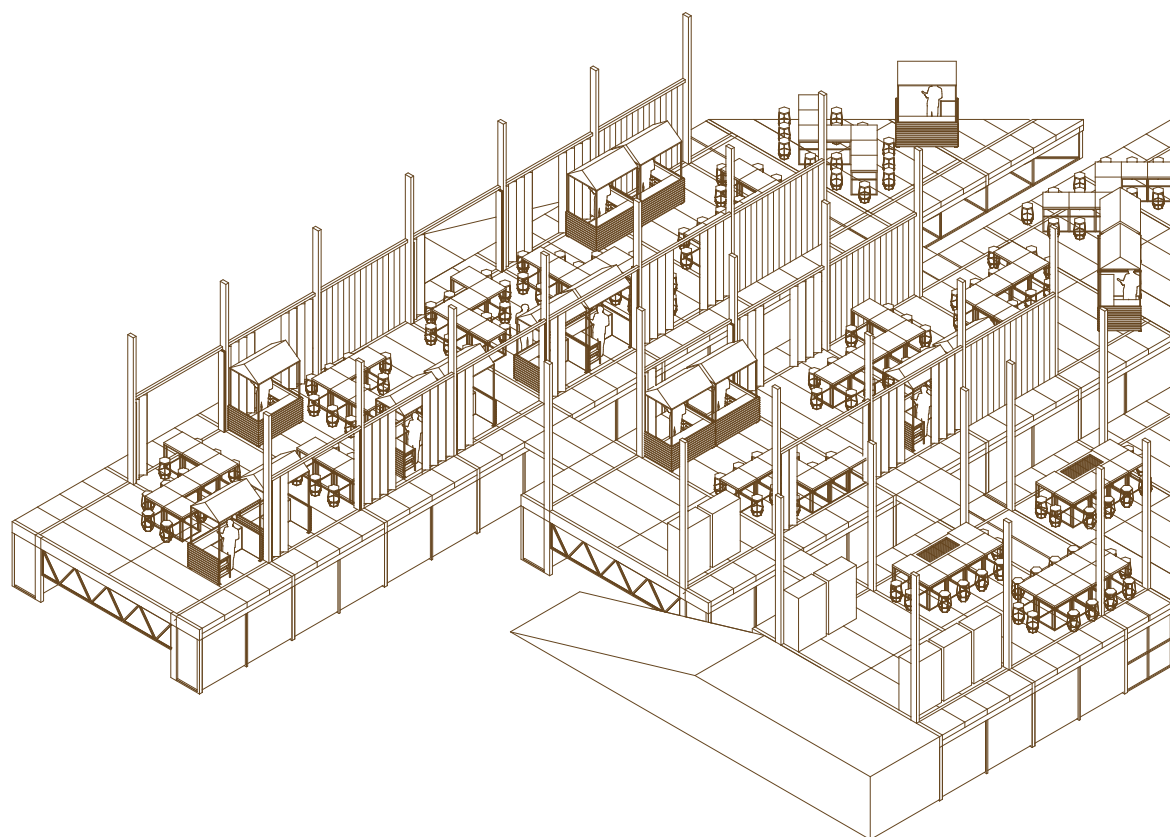


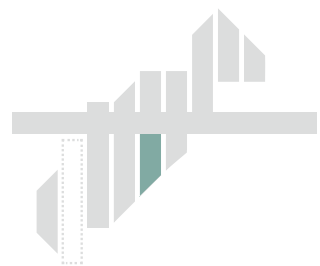
MARKET



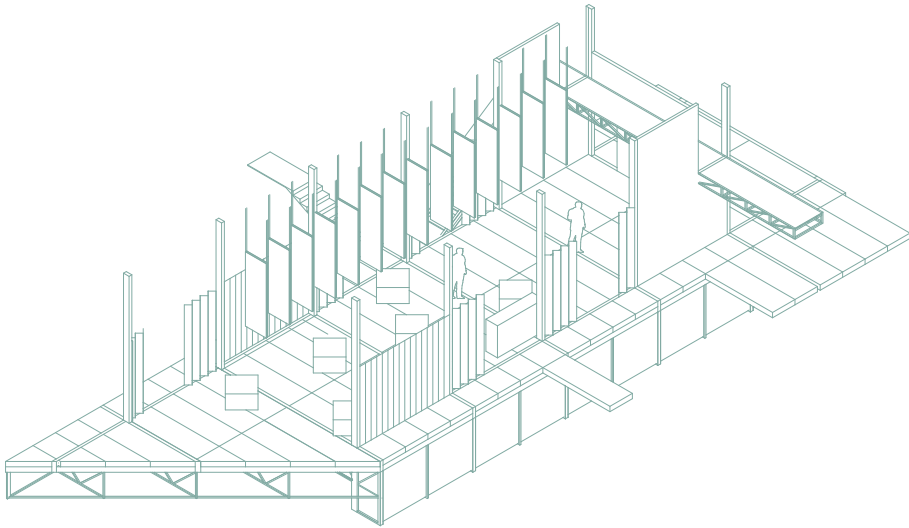
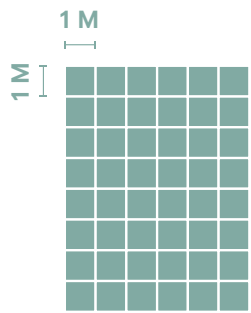


FOOD STREET

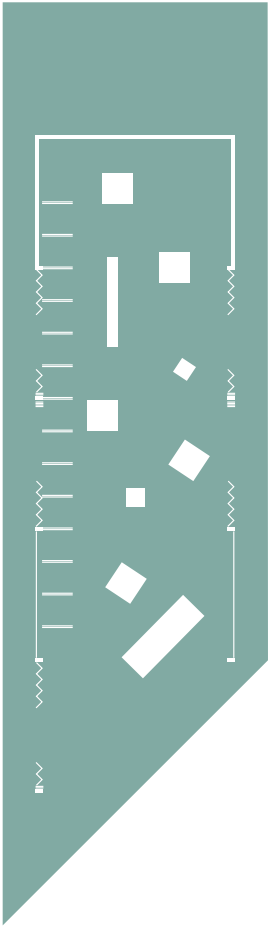




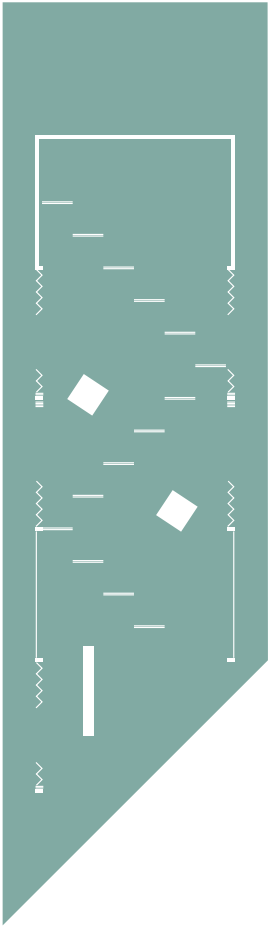
EXHIBITION



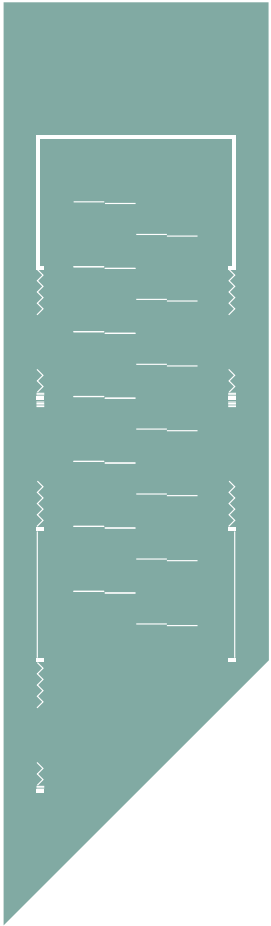
SCULPTURE



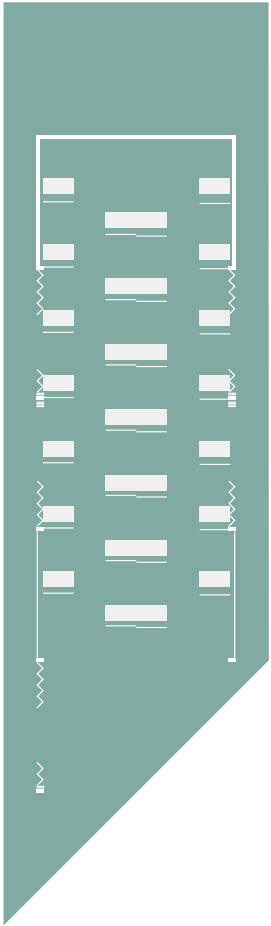
AREAS

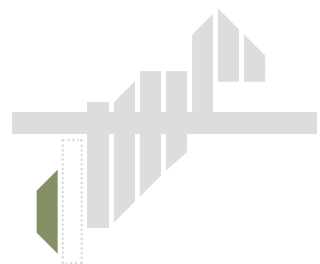


TRADITIONAL

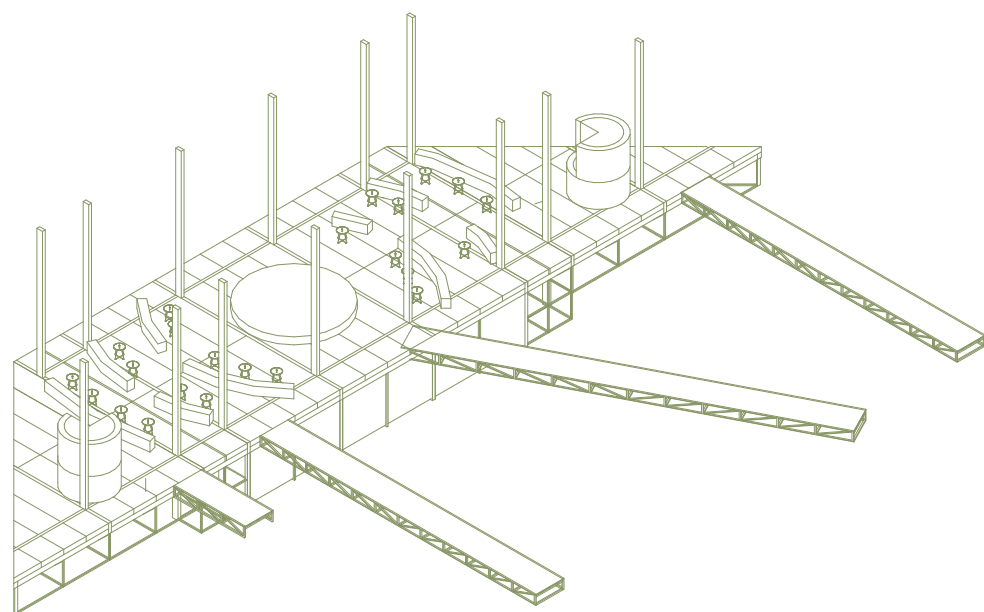


DRAWING&OBJECT

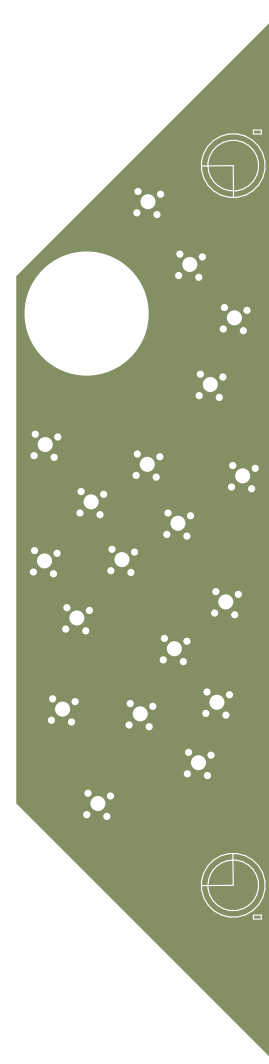




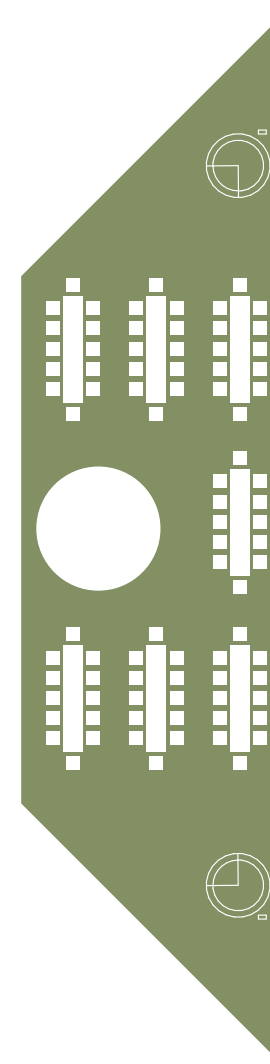
STAGE



LEISURE



DINNER

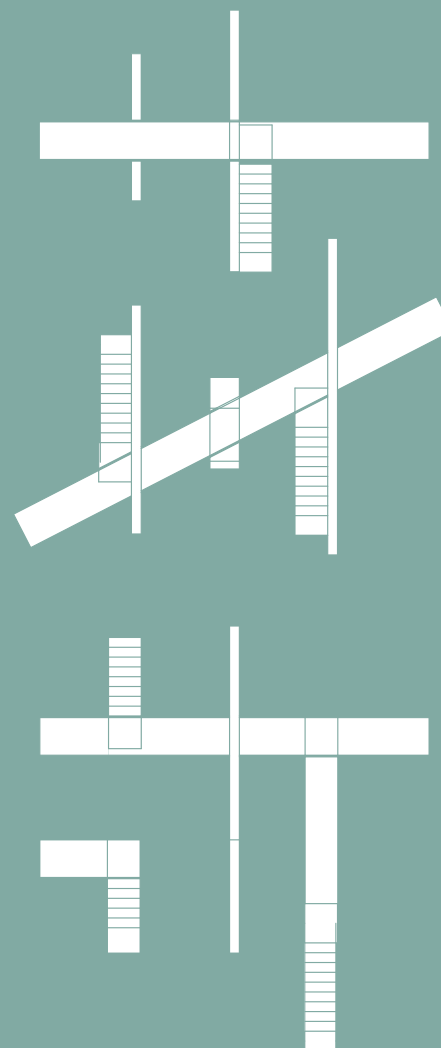
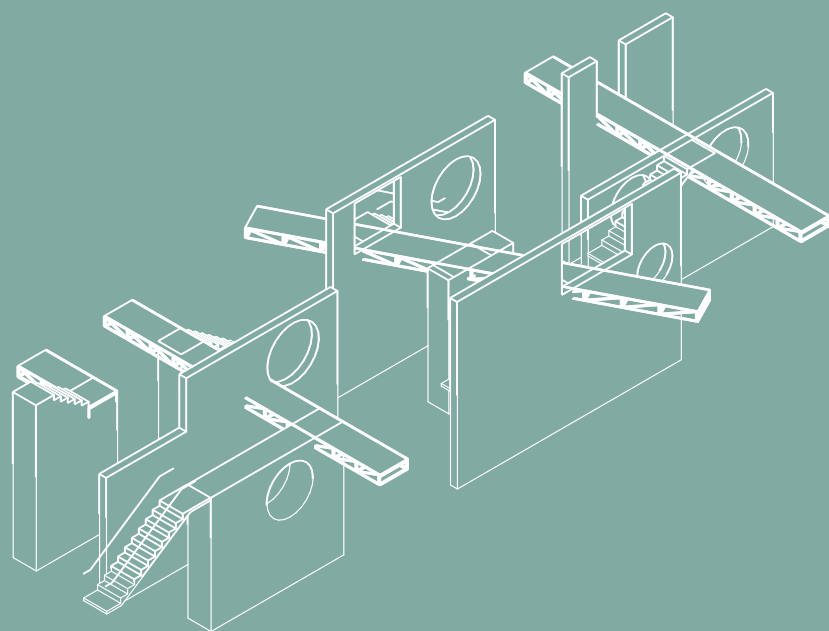


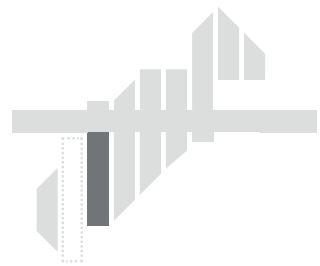
PERFORMANCE



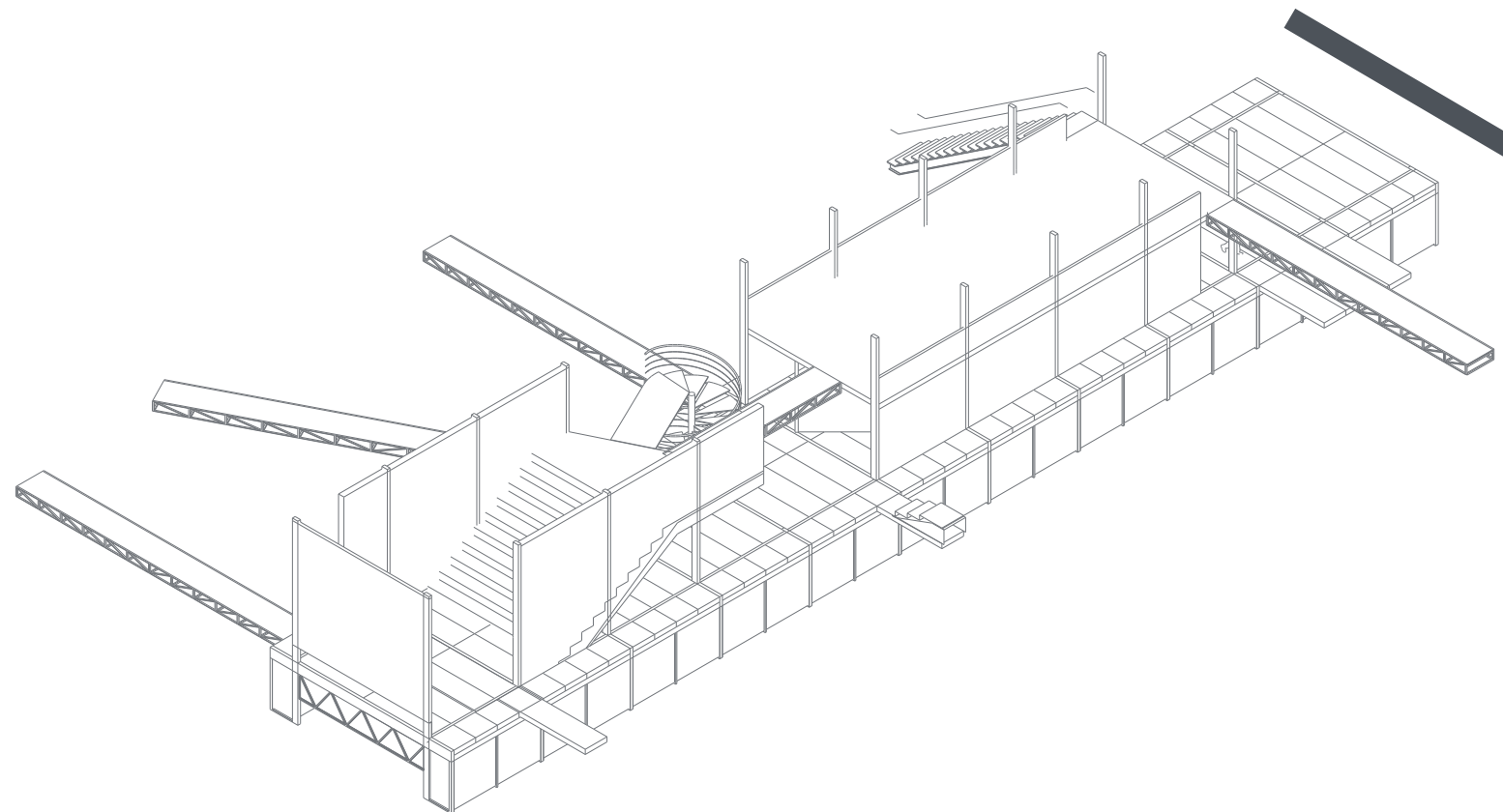


WATERSCAPE





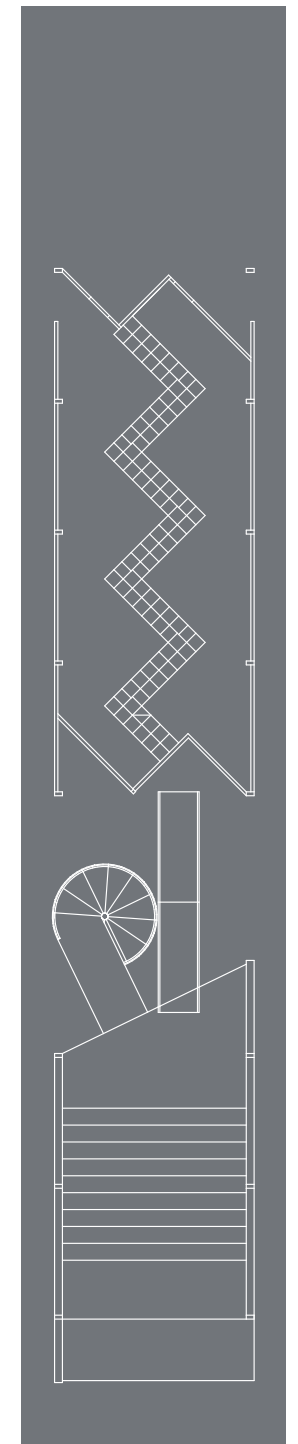
CHANGING ROOM & SCREEN



CHANGING ROOM
MALE/FEMALE

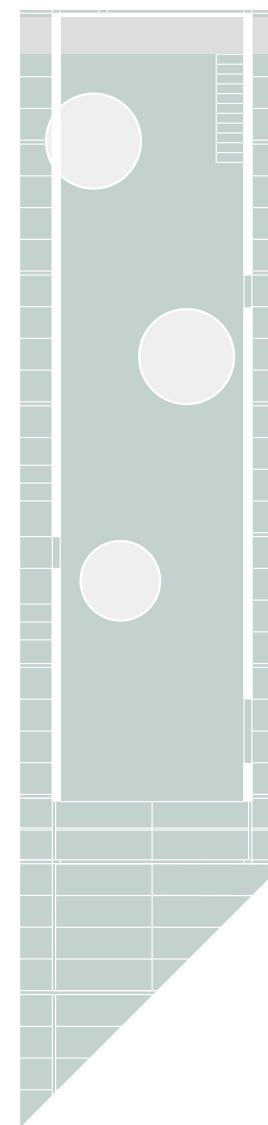
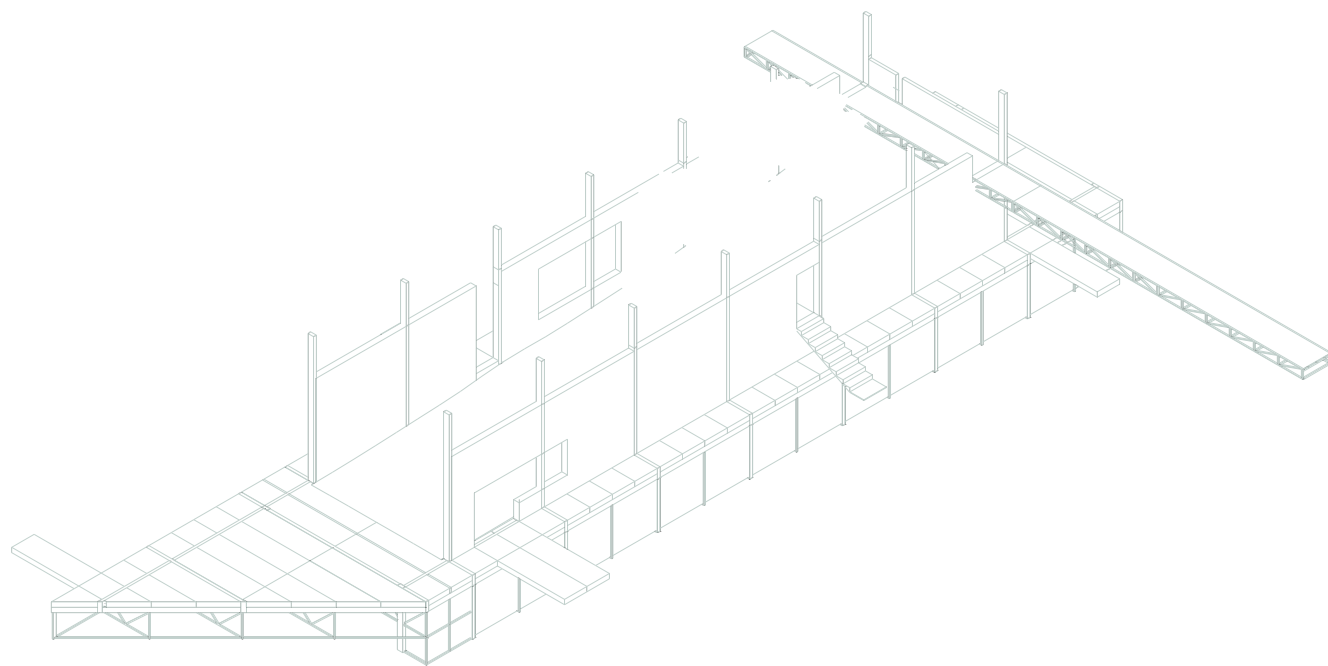
STAIRS

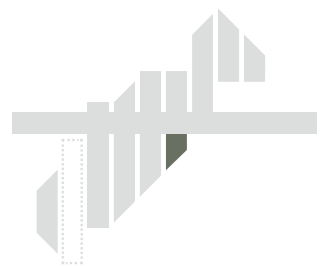
SCREEN



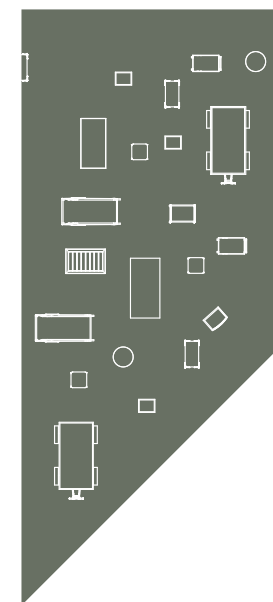
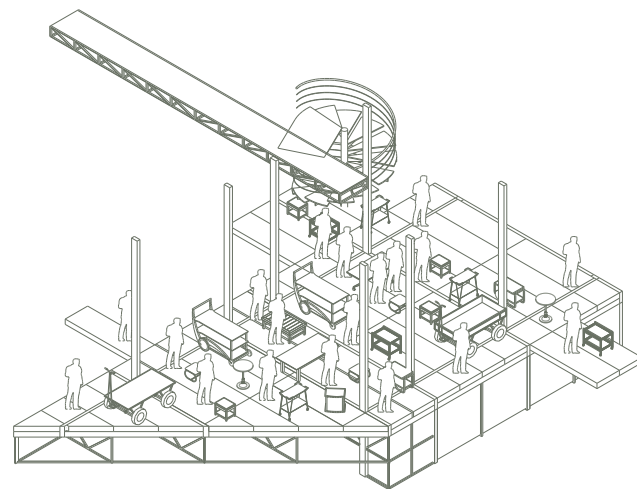


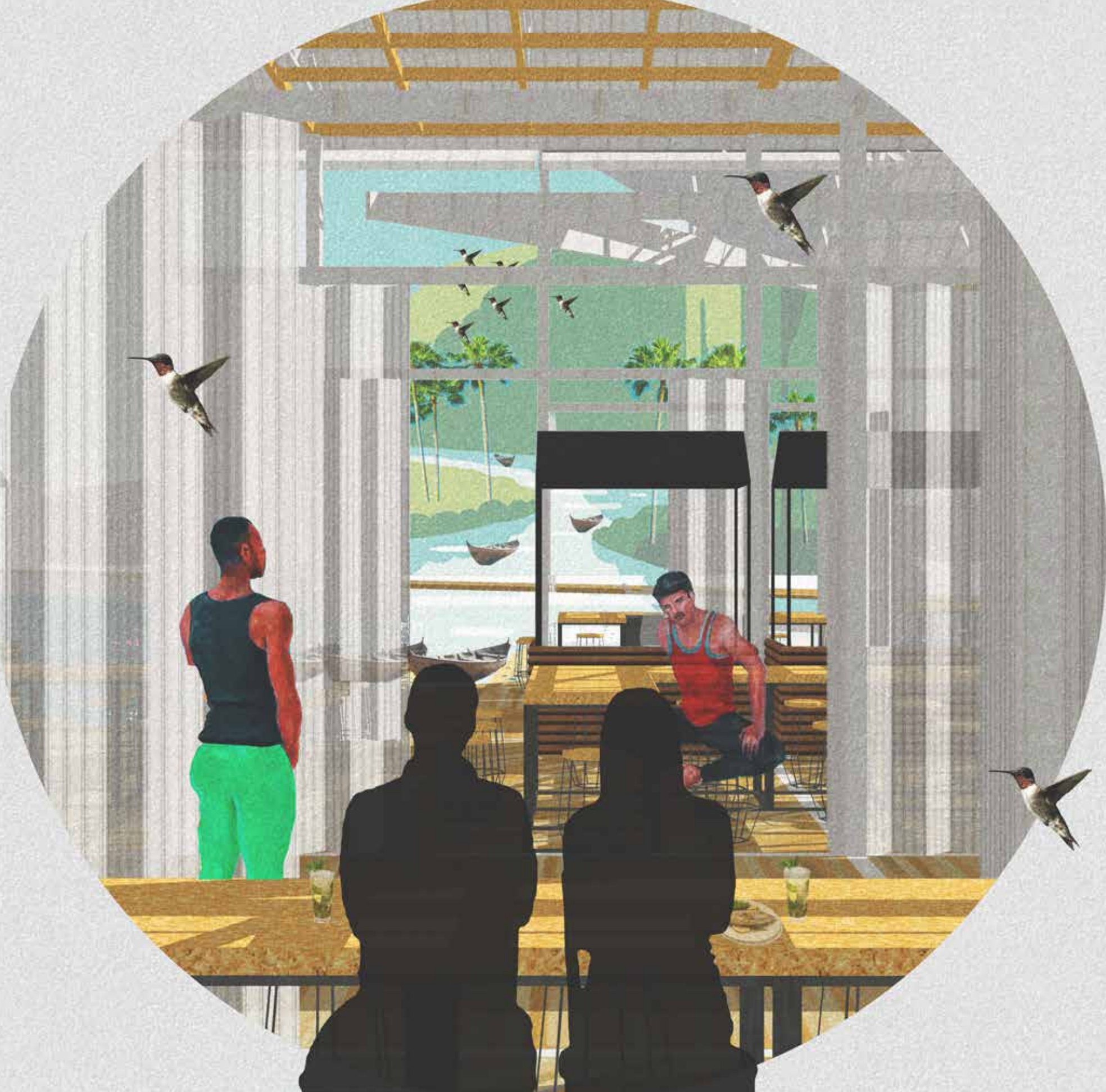
LANDSCAPE

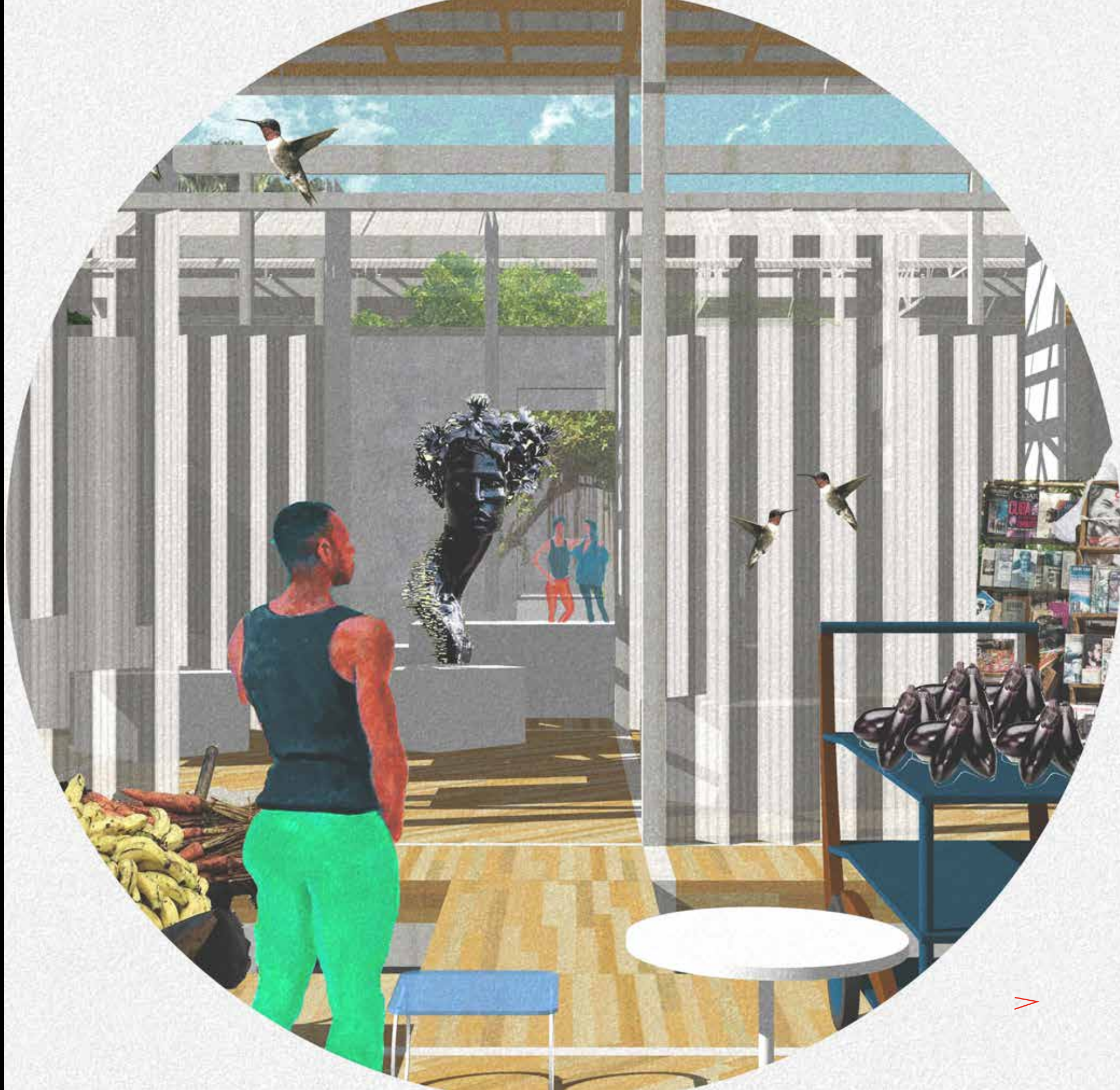




INFORMAL MARKET









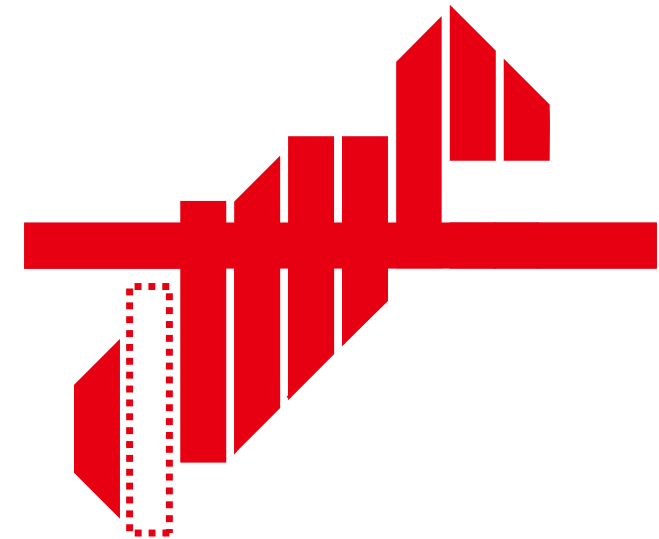
90 %

NORMAL



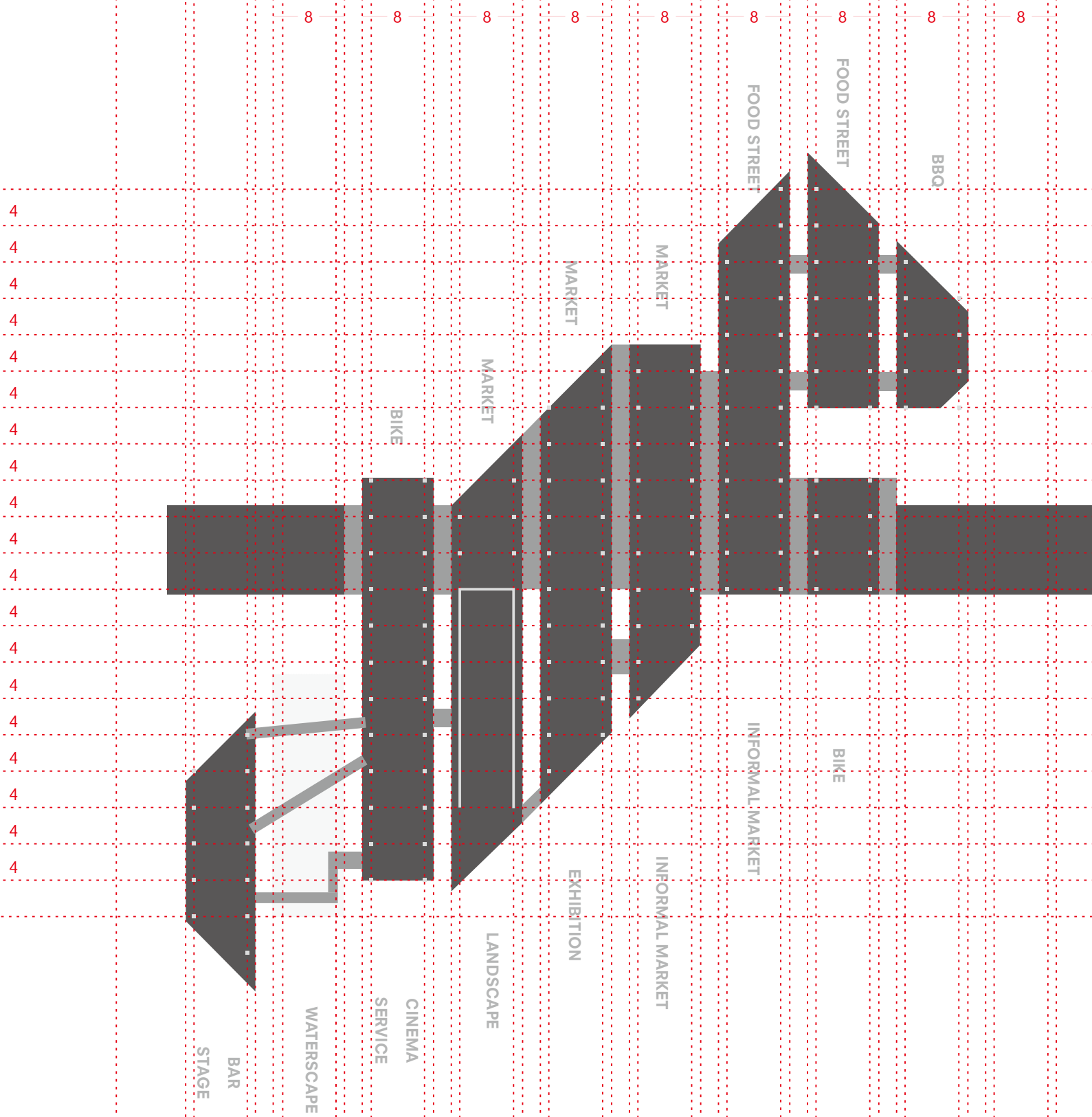
9 %

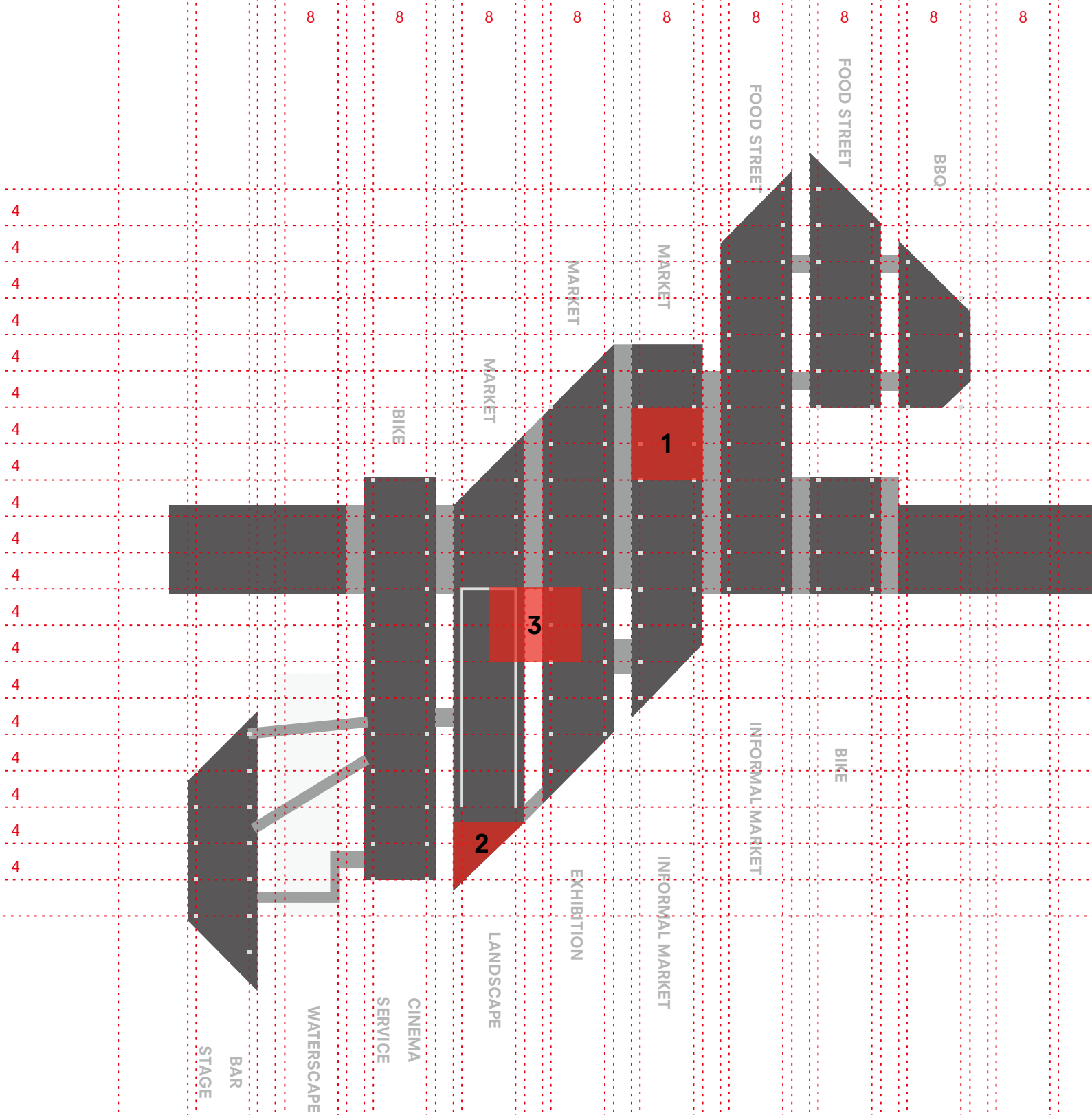
EVENTS

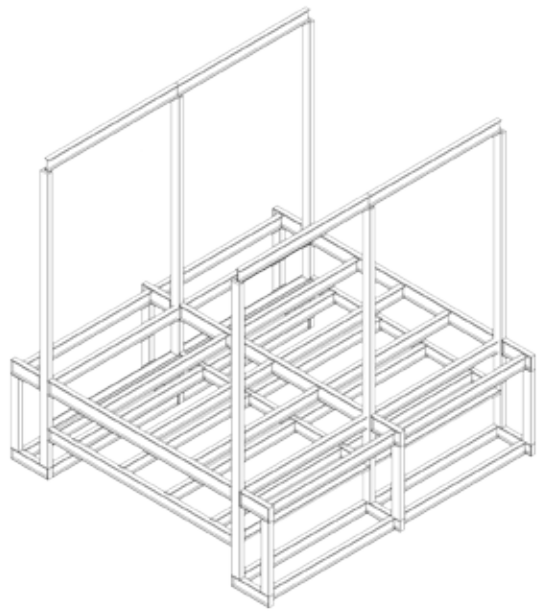
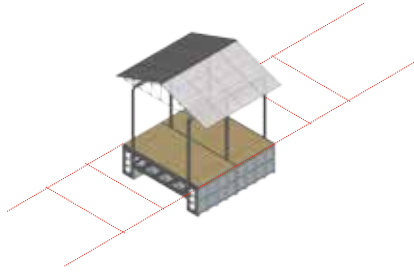
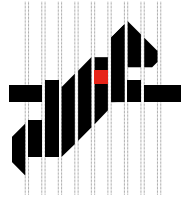


1 %

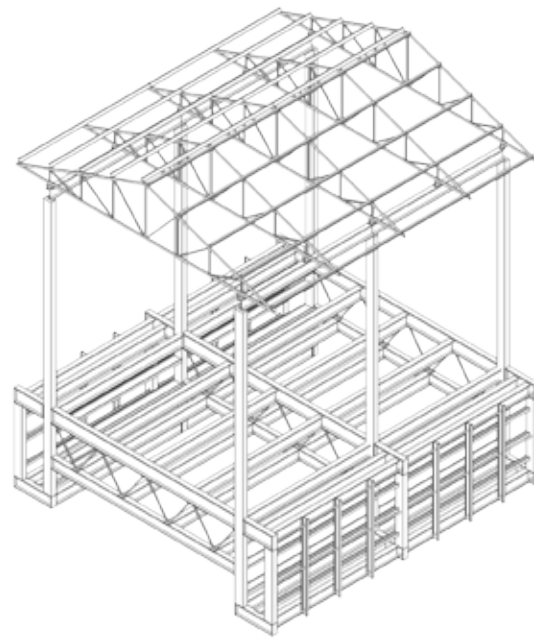
CELEBRATION



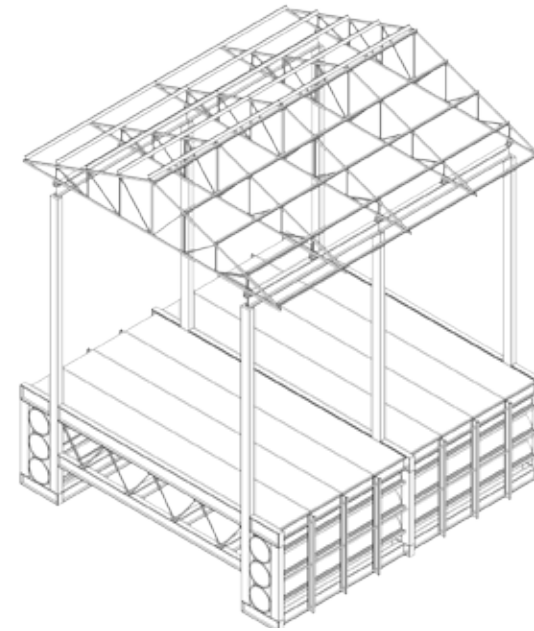




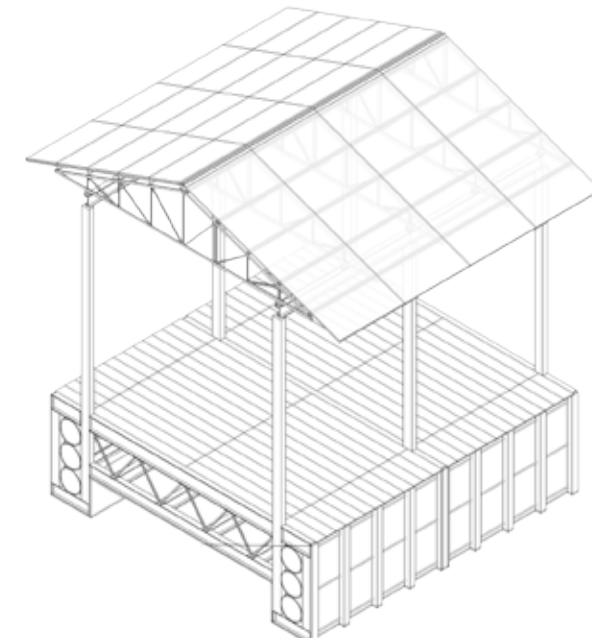
FOUNDATION



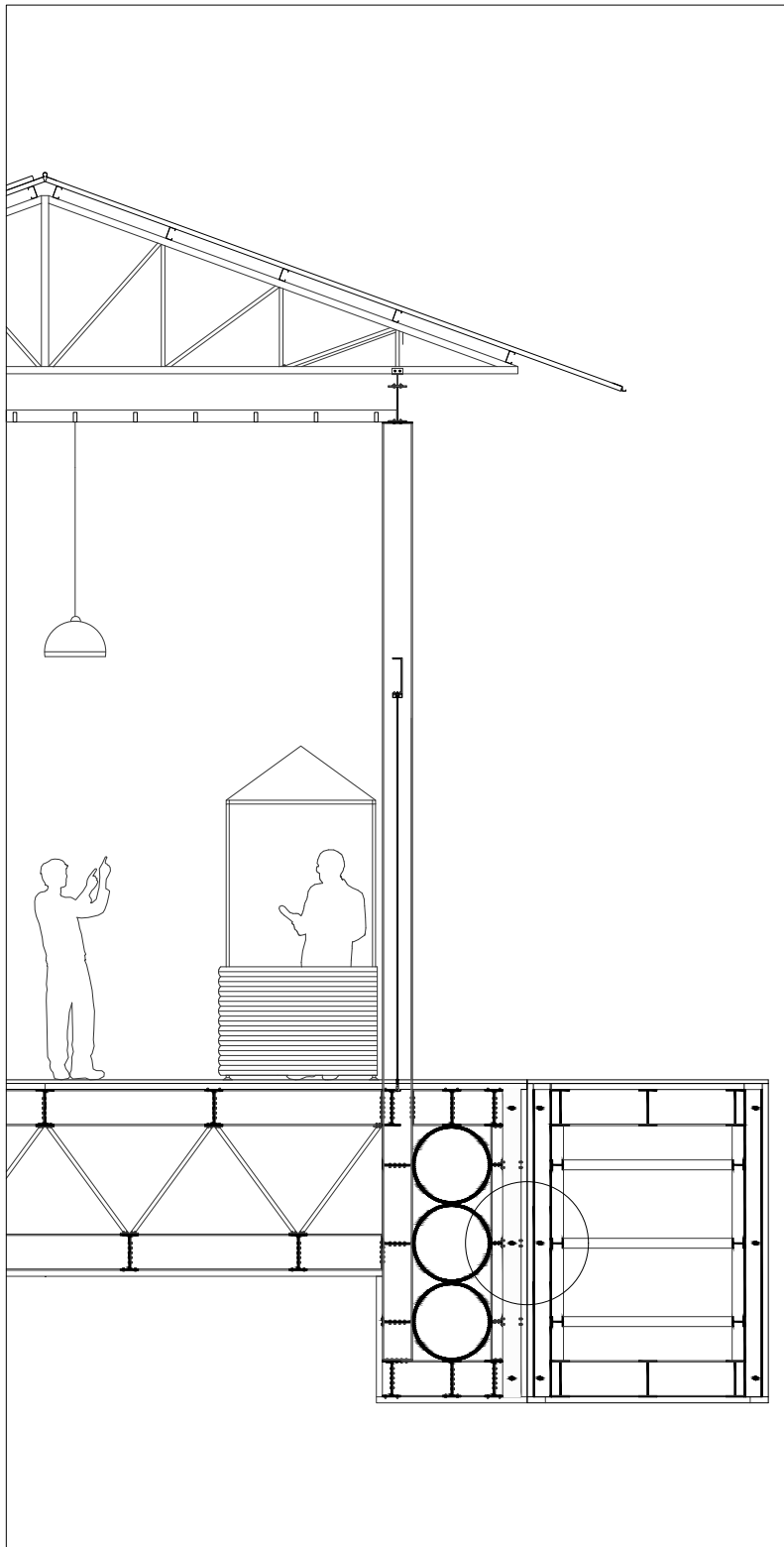
ROOF



WATER TANK



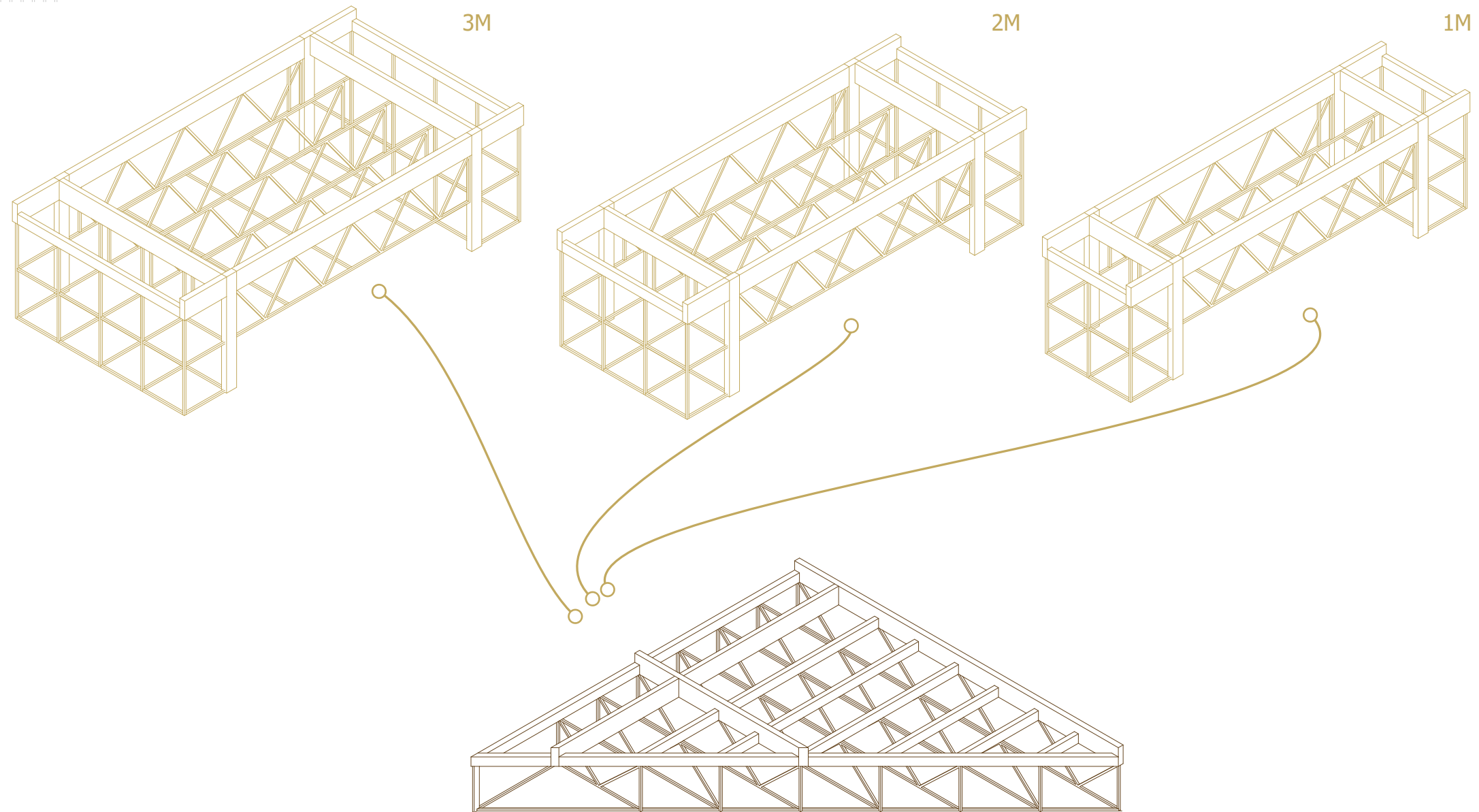
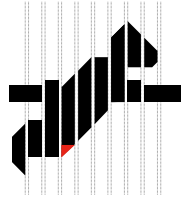
ENVELOPE

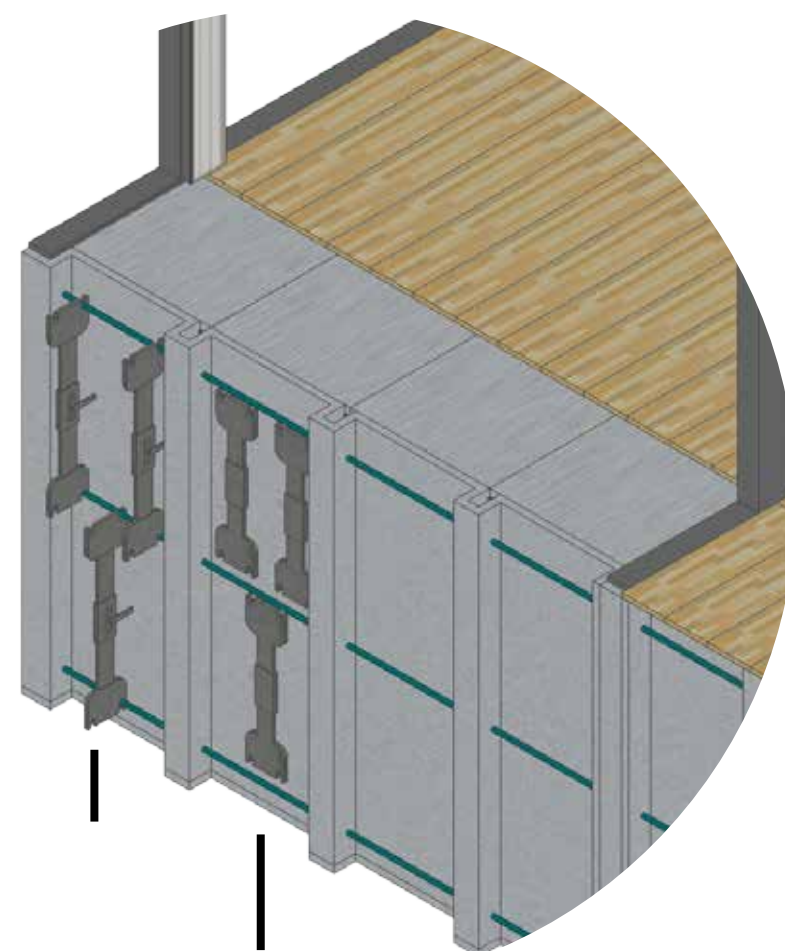
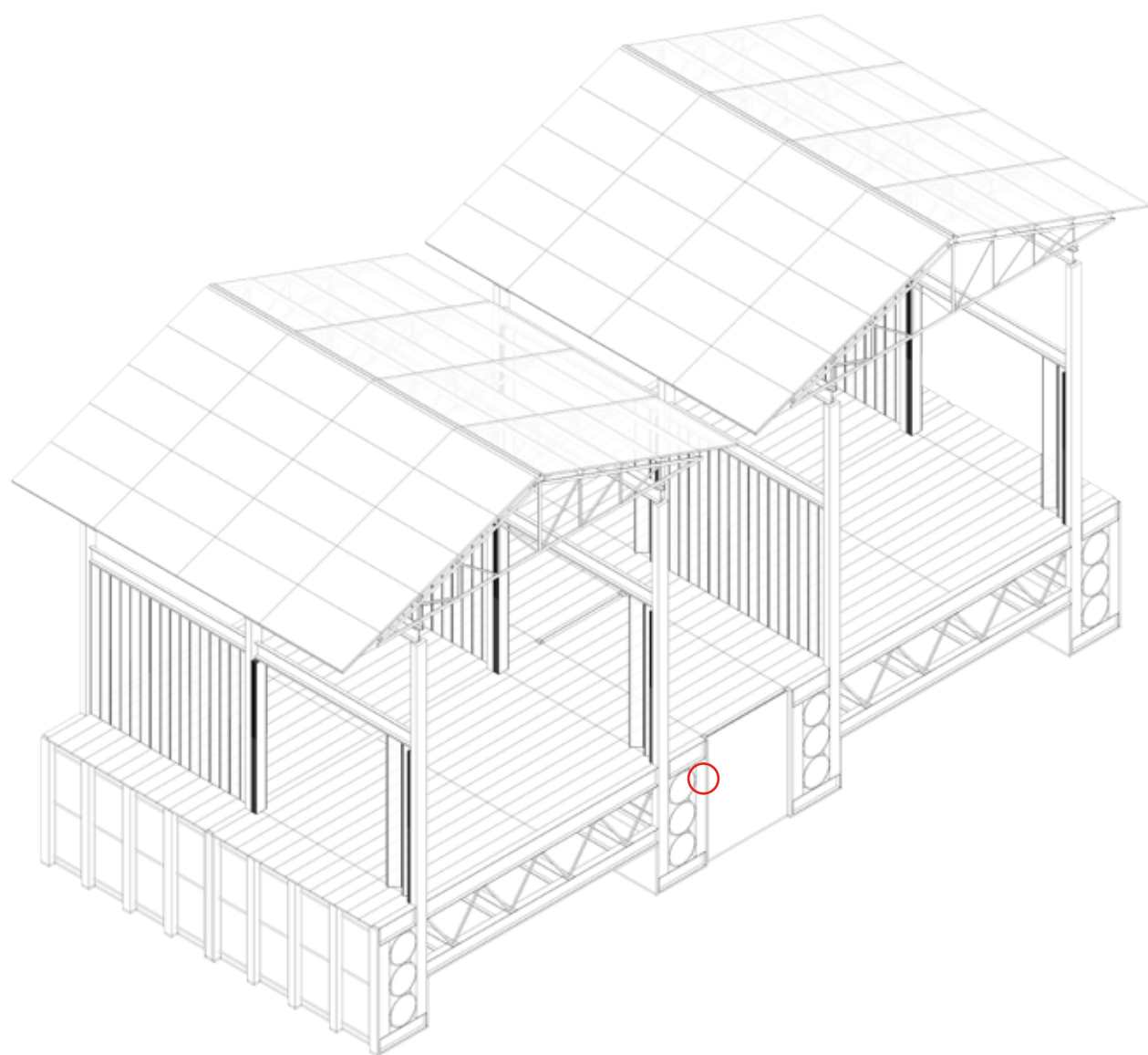
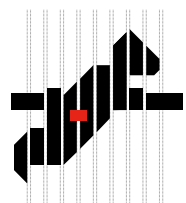


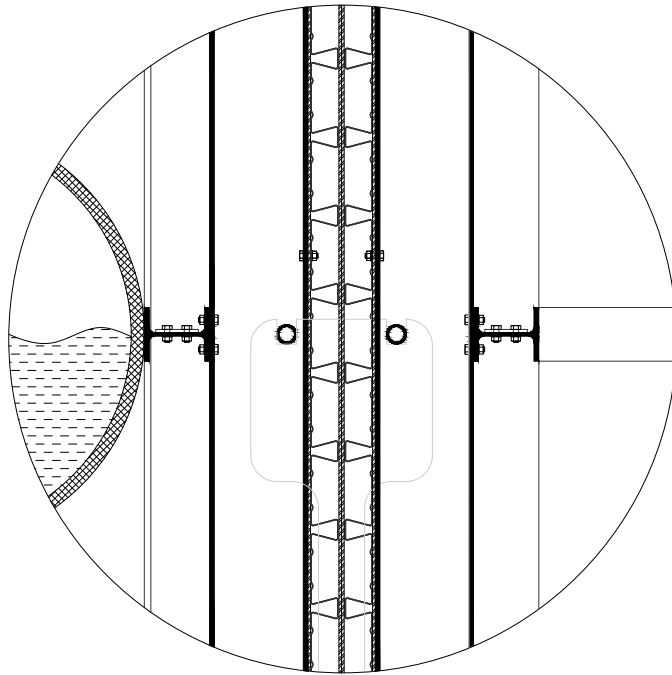
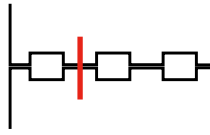
VERTICAL SECTION 1-20



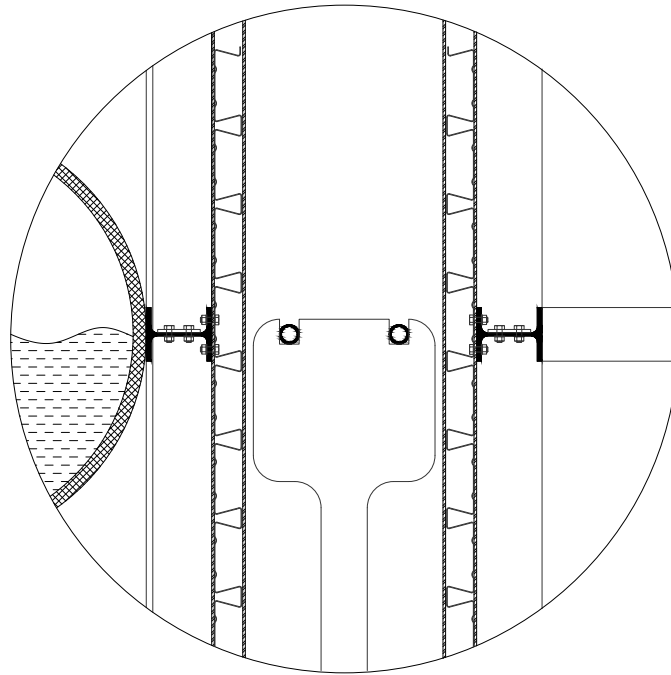
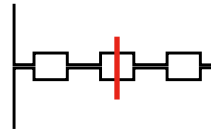
FACADE 1-20



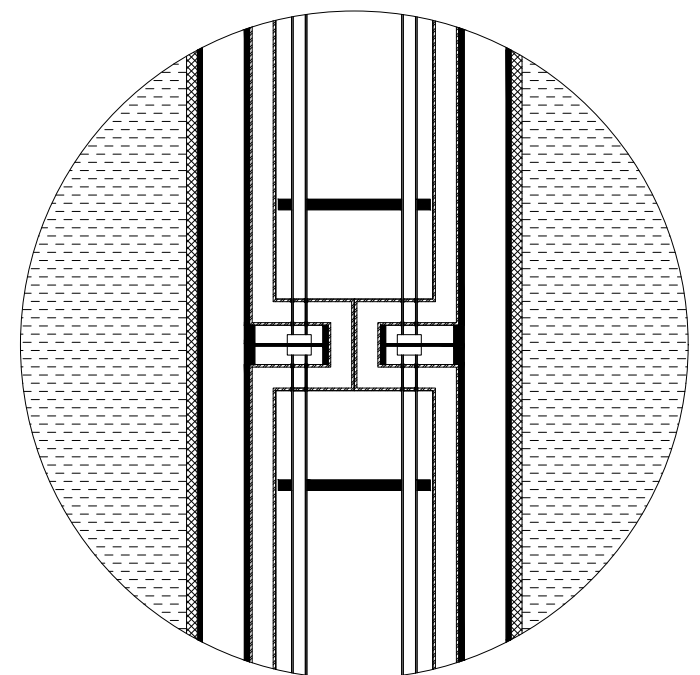
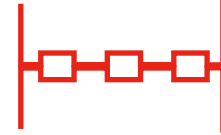




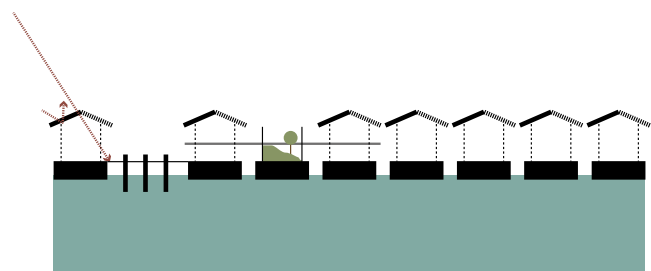
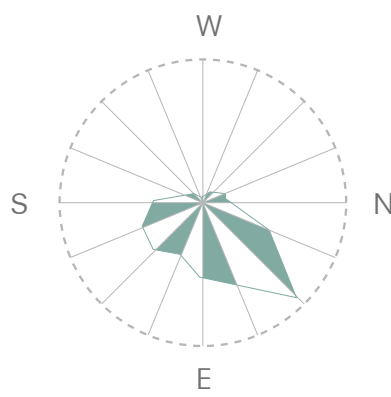
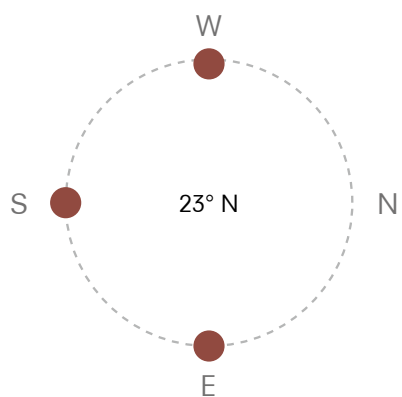
CONNECTION DETAIL 1-5



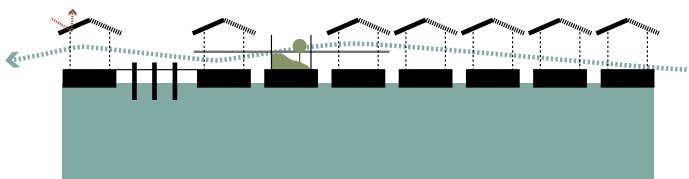
CONNECTION DETAIL 1-5



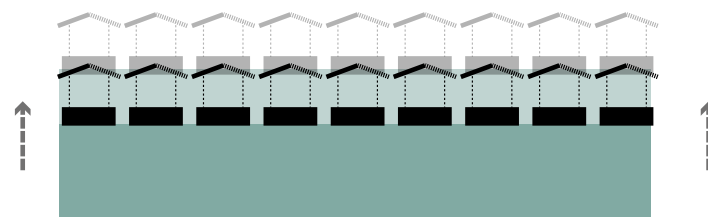
CONNECTION DETAIL 1-5



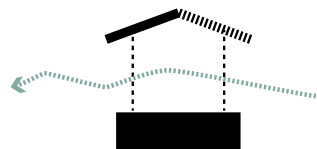
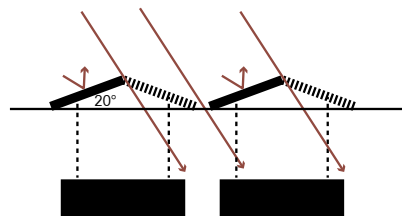
S U N

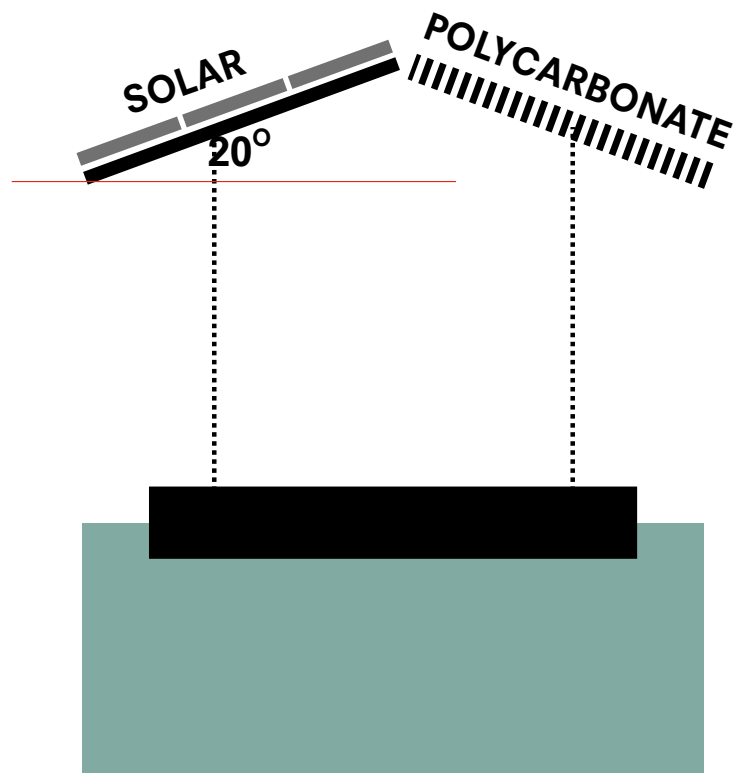


W I N D



F L O O D I N G

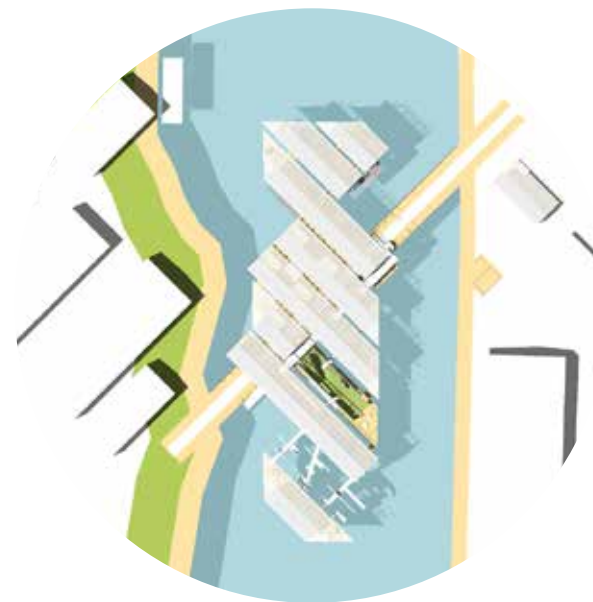




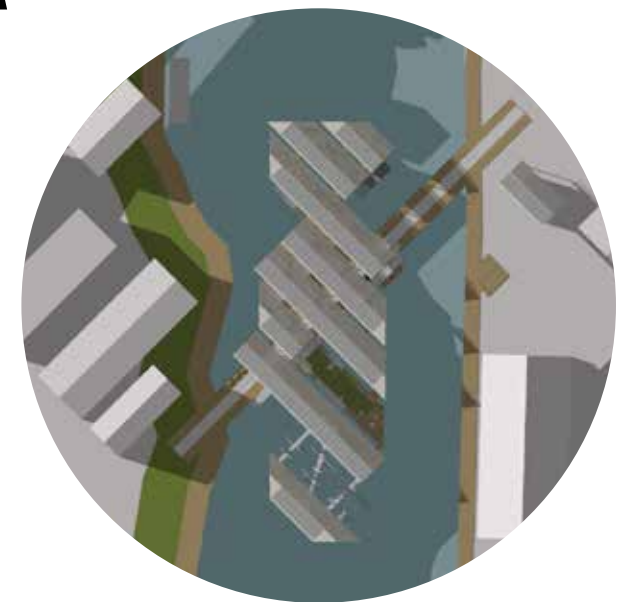
JUNE 0600



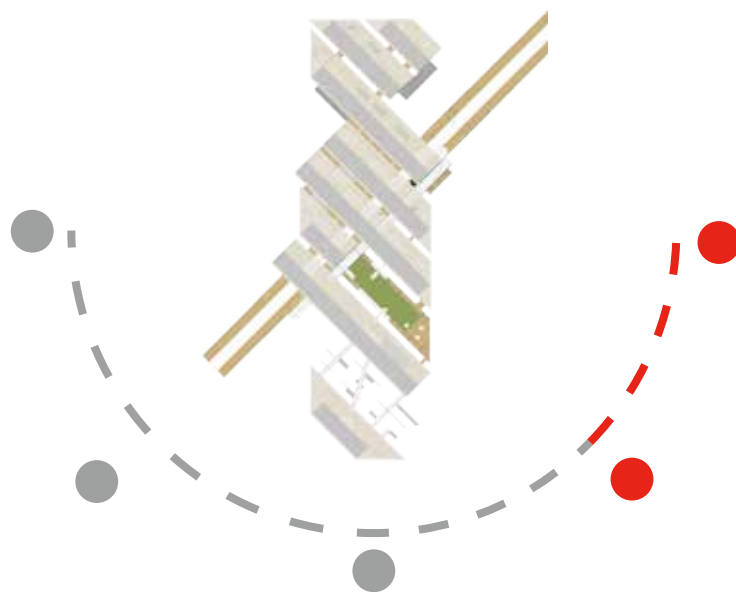
JUNE 1000

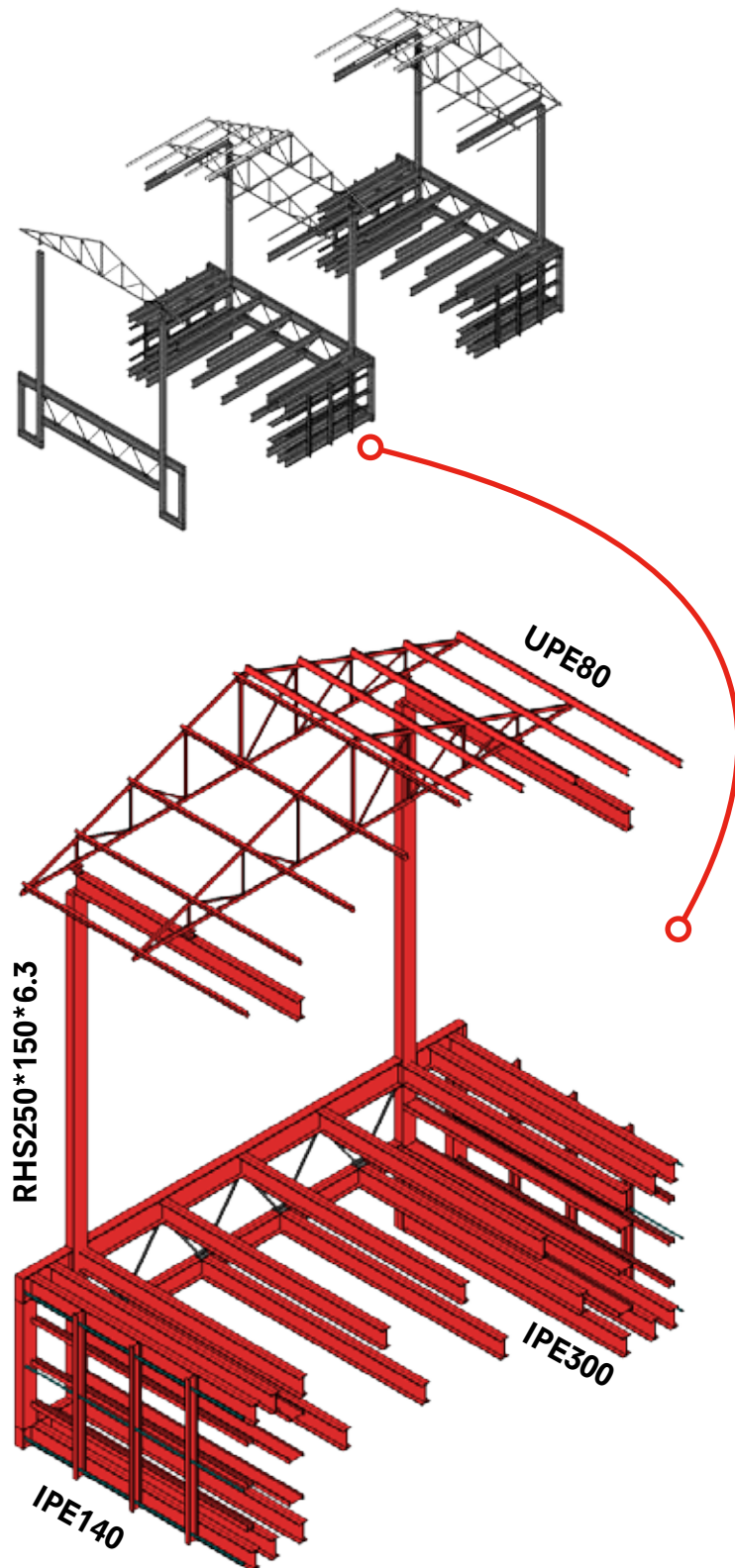


JUNE 1400



JUNE 1800





$$\left[\frac{8+4+4+5.6+5.6+1.5}{28.7} \right] \times 2.15 \text{ kg/m} \times 2 \text{ 层} \times 2$$

$$4+5 \times 2 \times 2 \quad (43.5) \quad \text{71.75}$$

$$4 \text{ m} \times 10 \times 7.98 \text{ kg/m}$$

$$\left(\frac{4 \text{ m} \times 2 \times 2}{108} \right) \times \frac{(0.9 \times 4 + 5.5 \times 2) \times 14.6}{42.2 \text{ kg/m}}$$

$$\left(\frac{2.5 \text{ m} \times 6}{15} \right) \times \frac{(7.8 \times 6)}{12.9 \text{ kg/m}}$$

$$\left(\frac{7.8 \times 2}{15.6} \right) \times \frac{(12 \times 2)}{38 \text{ kg/m}}$$

$$2 \text{ 层} \quad \text{UPE80} \quad 316$$

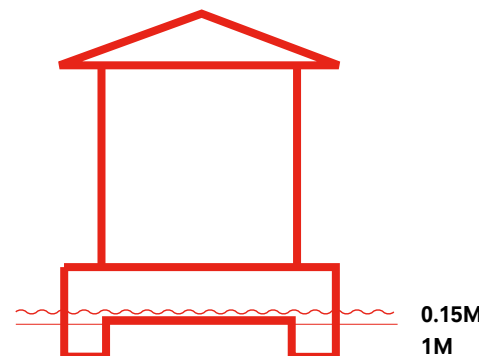
$$\text{IPE300} \quad 5173.72$$

$$\text{IPE140} \quad 487.62$$

$$\text{RHS } 250 \times 150 \times 6.3 \quad 749.8$$

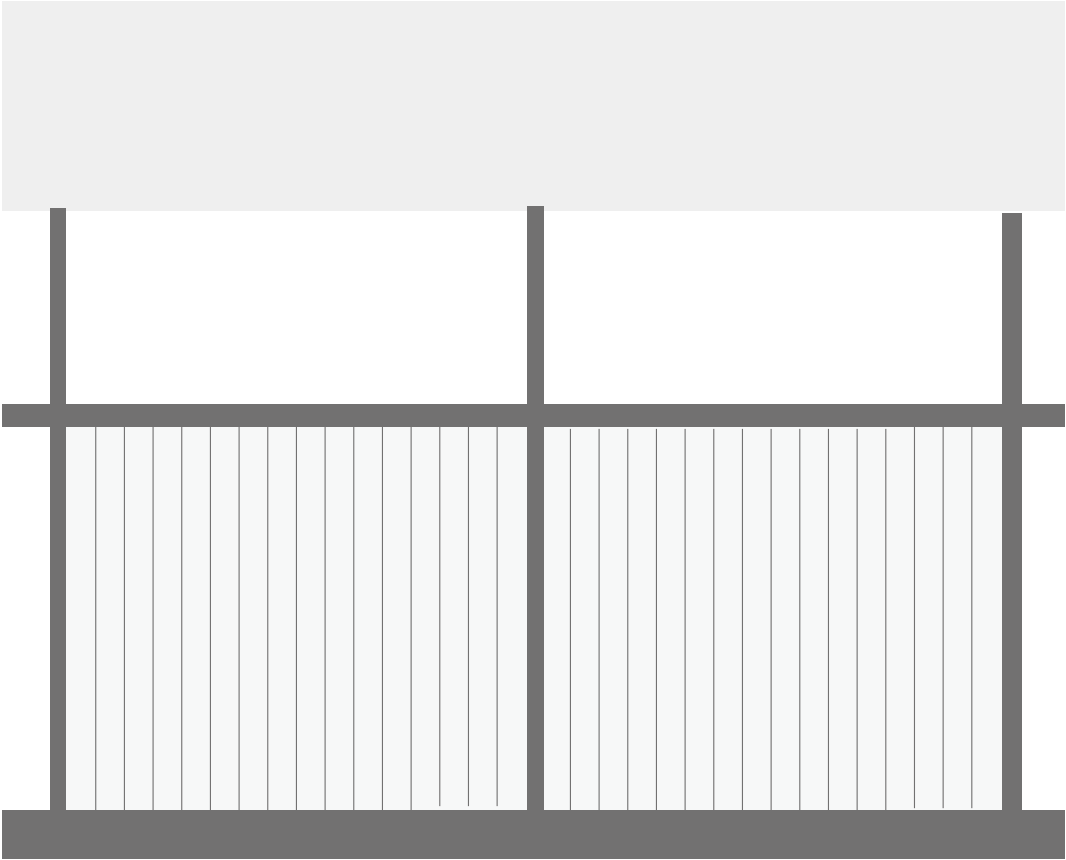
$$\frac{6.87}{32} = 0.21 \text{ m}$$

$$6.87 \text{ m}^3 \text{ water} \quad 6865.64 \text{ kg}$$



=6.87TON WATER





4M

16



