



MULTI COMFORT

Student Contest, Paris 2020/2021

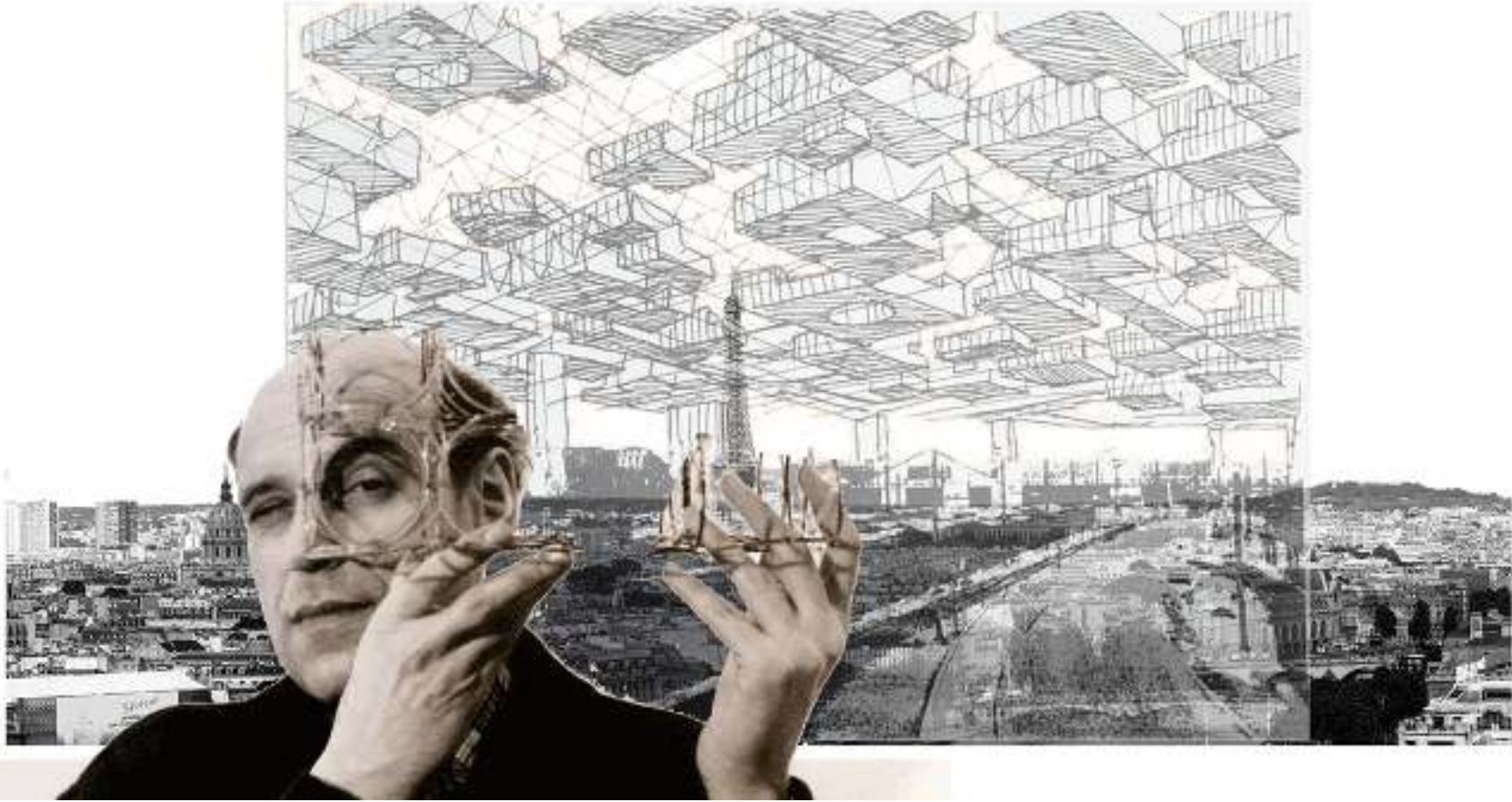


“ENTRE LES BRANCHES”

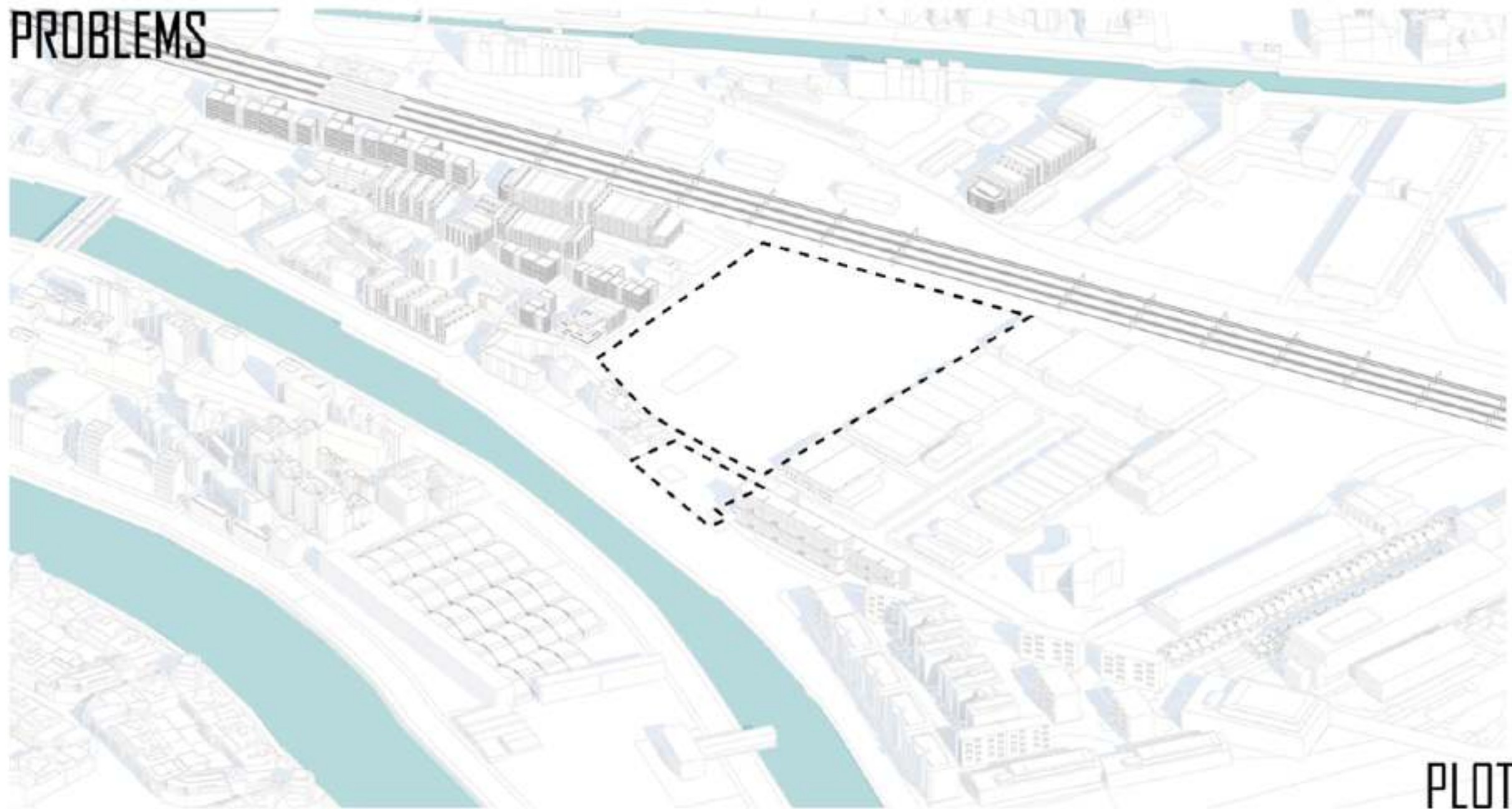
Colombia
Pontificia Universidad Javeriana

Diana Catalina Barrera Agudelo &
Juan Sebastian Jaramillo Ortiz

#54



PROBLEMS



PLOT

POTENTIALS

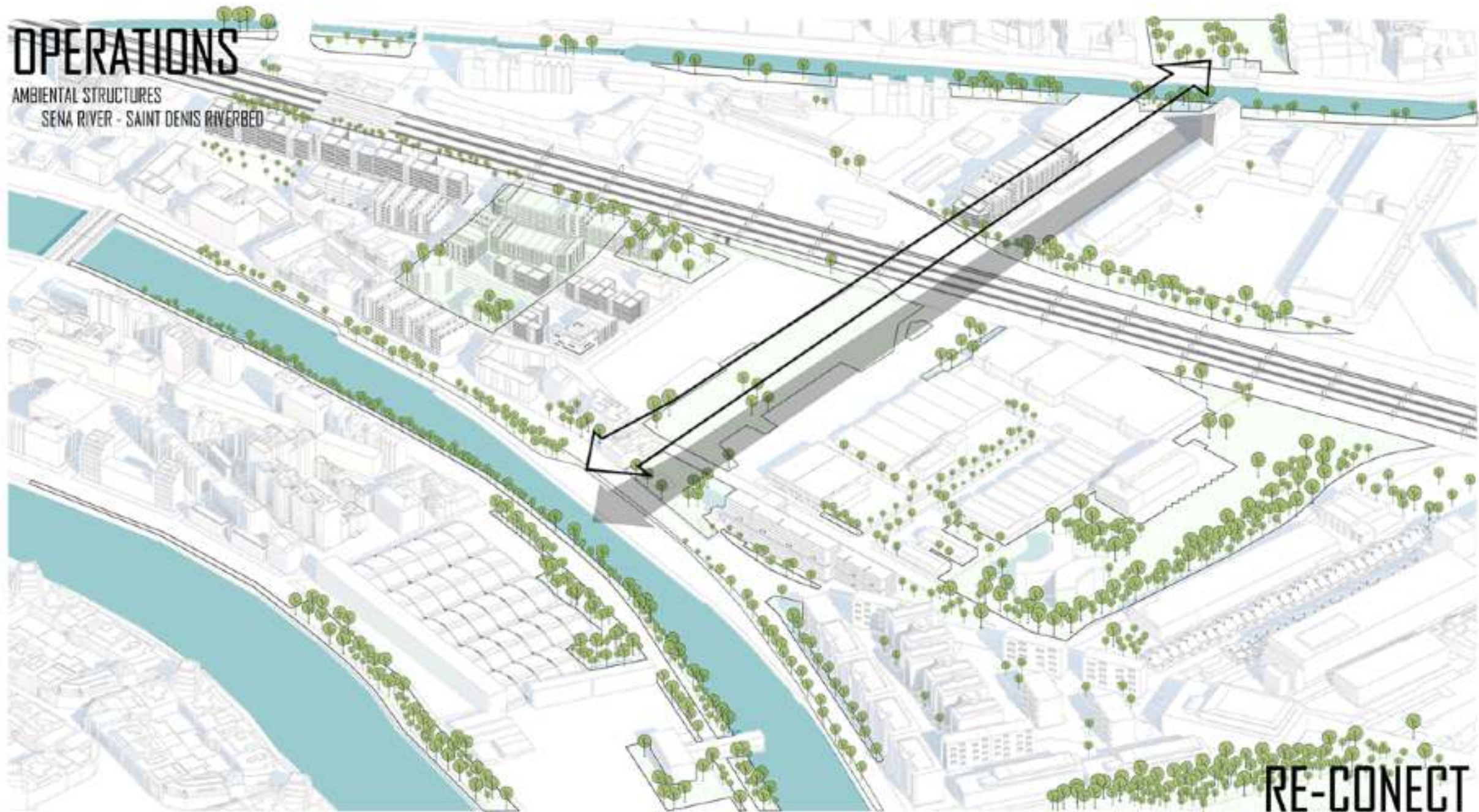
URBAN STRUCTURES



EX-PLOT-ED

OPERATIONS

AMBIENTAL STRUCTURES
SENA RIVER - SAINT DENIS RIVERBED



RE-CONNECT



PUBLIC SPACE

PUBLIC SPACE

VEHICLES AND PUBLIC TRANSPORT



TRANSPORT

PUBLIC SPACE

+110 dB

+90 dB

ACOUSTIC ISOLATION



PUBLIC SPACE

BIOMES

HIGH MOUNTAIN ECOSYSTEM

FORESTED ECOSYSTEM

WETLANDS AND INLAND WATERBODIES

SPERMATOPHYTES

ECO-PRODUCTIVITY

+1200 TREES

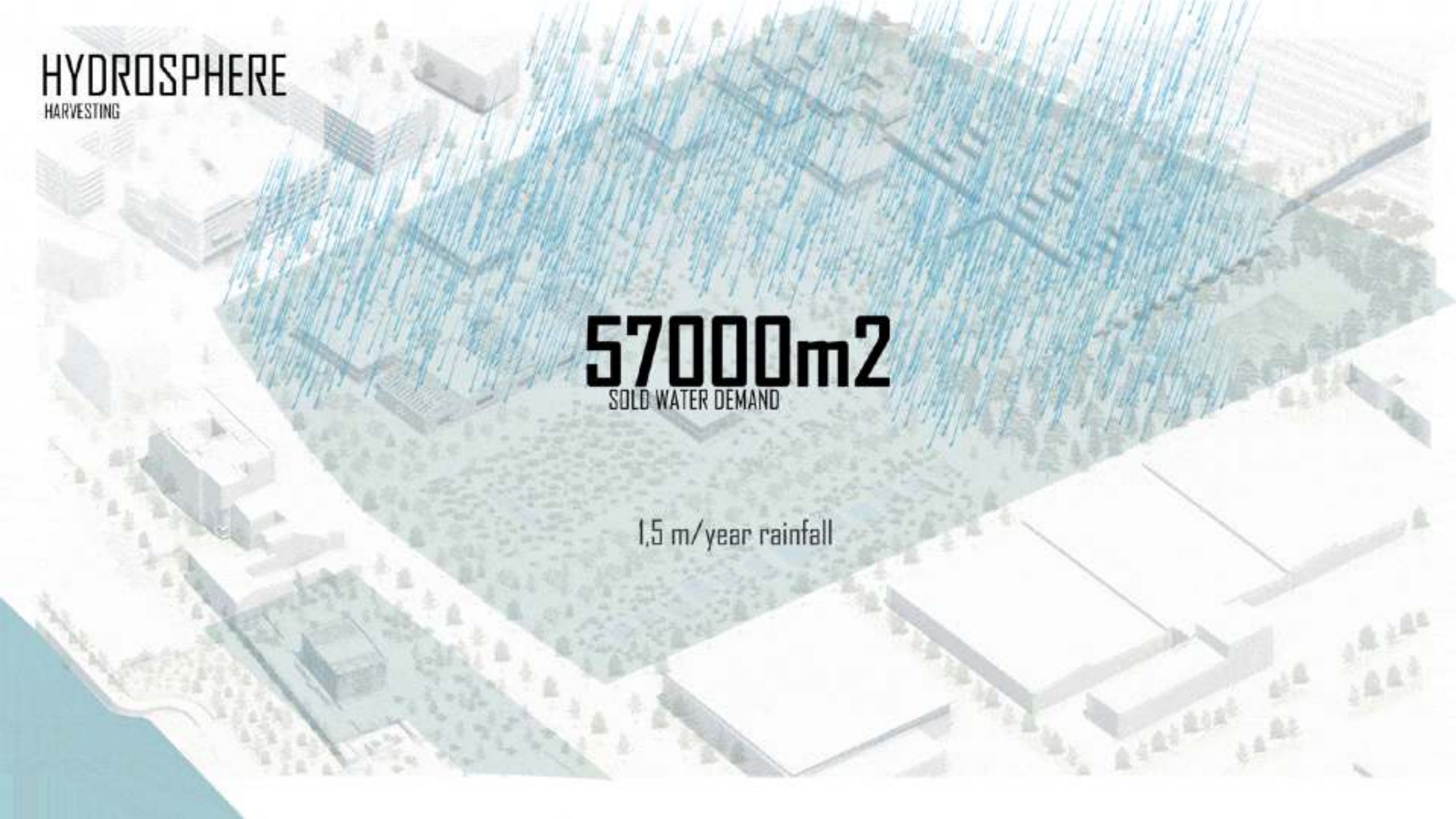
ECO-INCREMENTAL PARK

HYDROSPHERE

HARVESTING

57000m²
SOLD WATER DEMAND

1,5 m/year rainfall



SGG PLANISTAR 6(4)6

TL= 71% SOLAR FACTOR=0.43

S=1.3

MAISON COIGNET

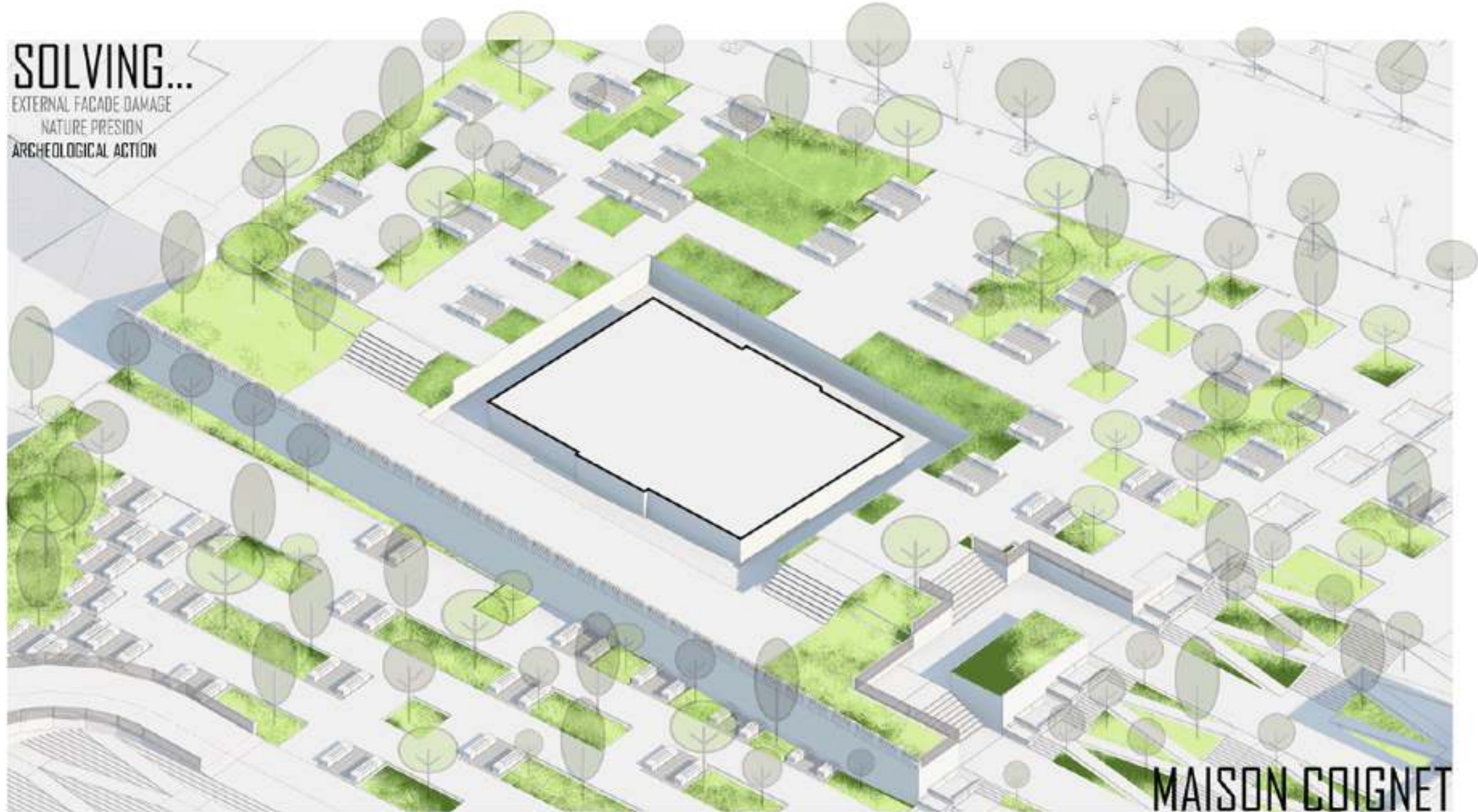
TO SOLVE...
EXTERNAL FACADE DAMAGE



MAISON COIGNET

SOLVING...

EXTERNAL FACADE DAMAGE
NATURE PRESION
ARCHEOLOGICAL ACTION



MAISON COIGNET



IT'S ALIVE!

SGG COOL-LITE® SKN 183

LT = 75% SOLAR FACTOR = 40%

S = 188

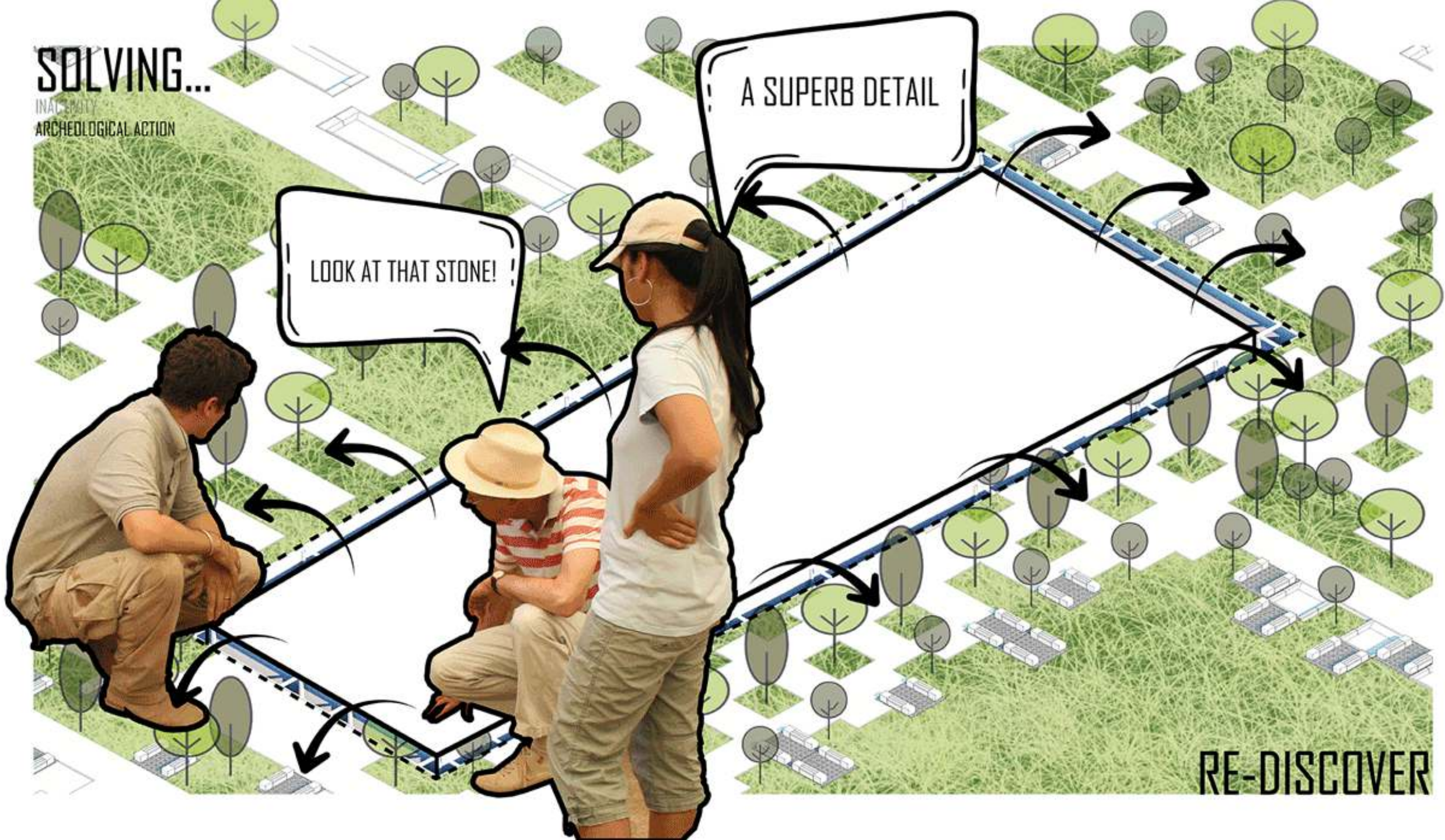


GLOBAL WARMING IS FAKE

WAREHOUSES

SOLVING...

IN AN EMPTY
ARCHAEOLOGICAL ACTION



A SUPERB DETAIL

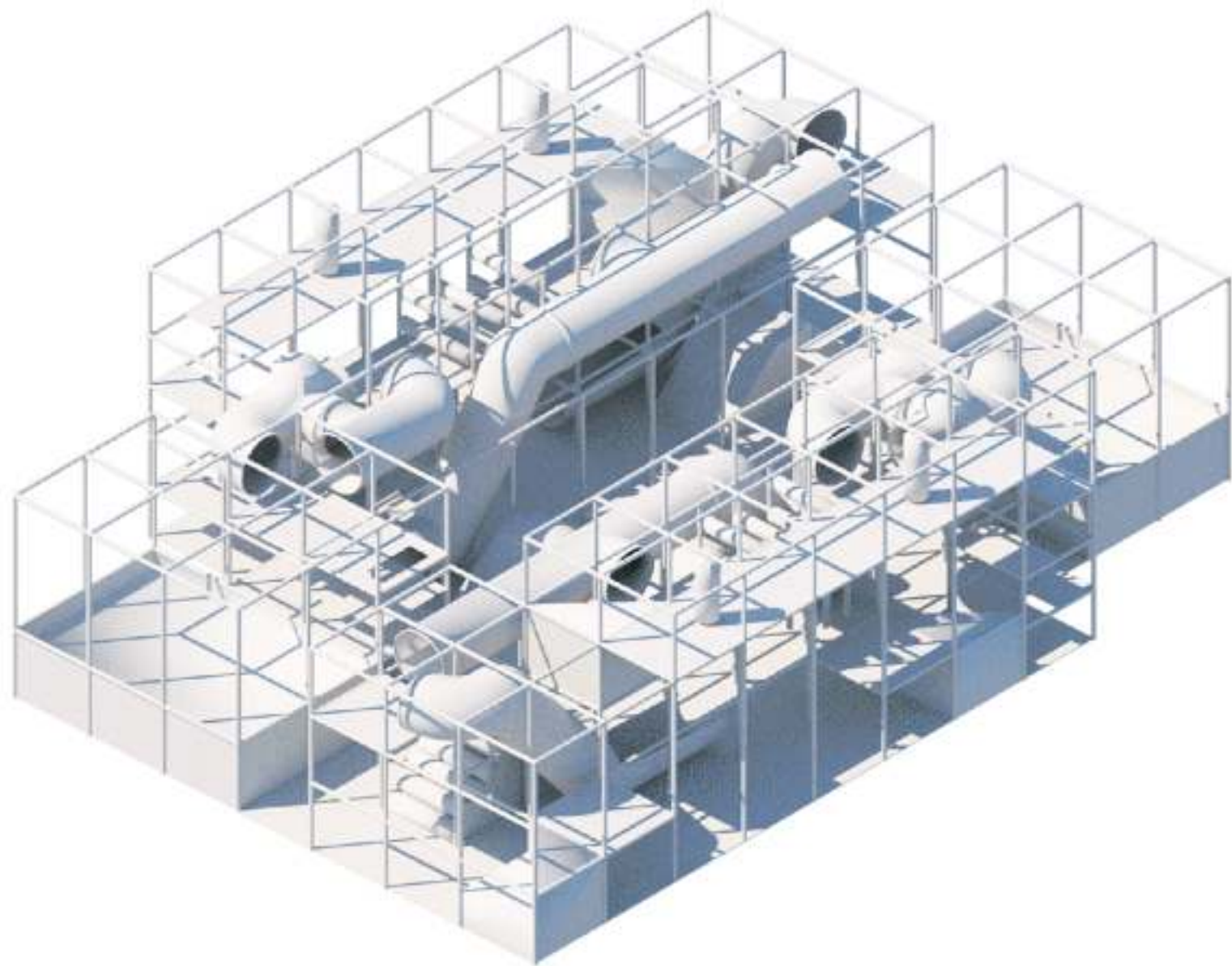
LOOK AT THAT STONE!

RE-DISCOVER



ÉCOLE

CONCEPT
PEDAGOGICAL LAB



PROGRAM

PLAYGROUND COMPLEX

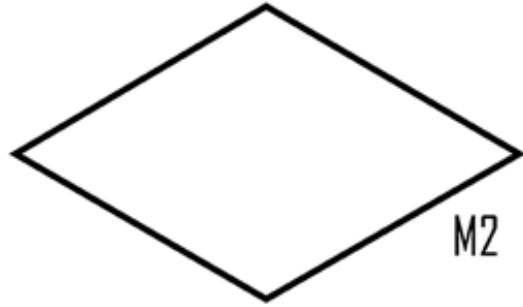




HOUSING

SETTINGS

MODULARITY
SQUARE METERS



HOUSING

SETTINGS

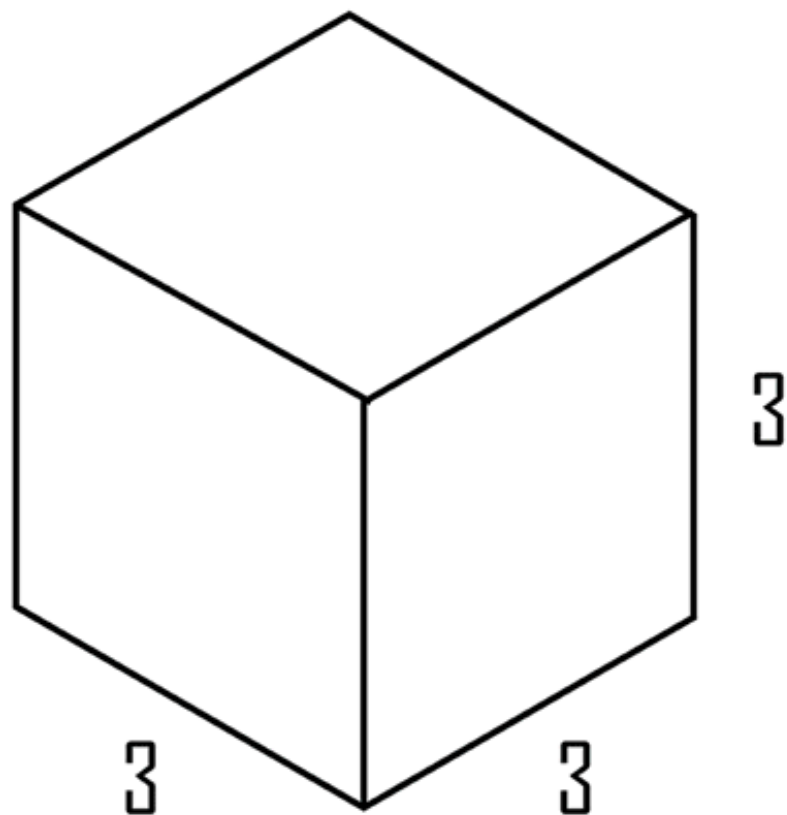
MODULARITY

SQUARE METERS

CUBICAL METERS

DENSITY

MINIMAL ARCHITECTONIC UNIT



HOUSING

SETTINGS

MODULARITY

SQUARE METERS

CUBICAL METERS

DENSITY

MINIMAL ARCHITECTONIC UNIT

BEDROOM

KITCHEN

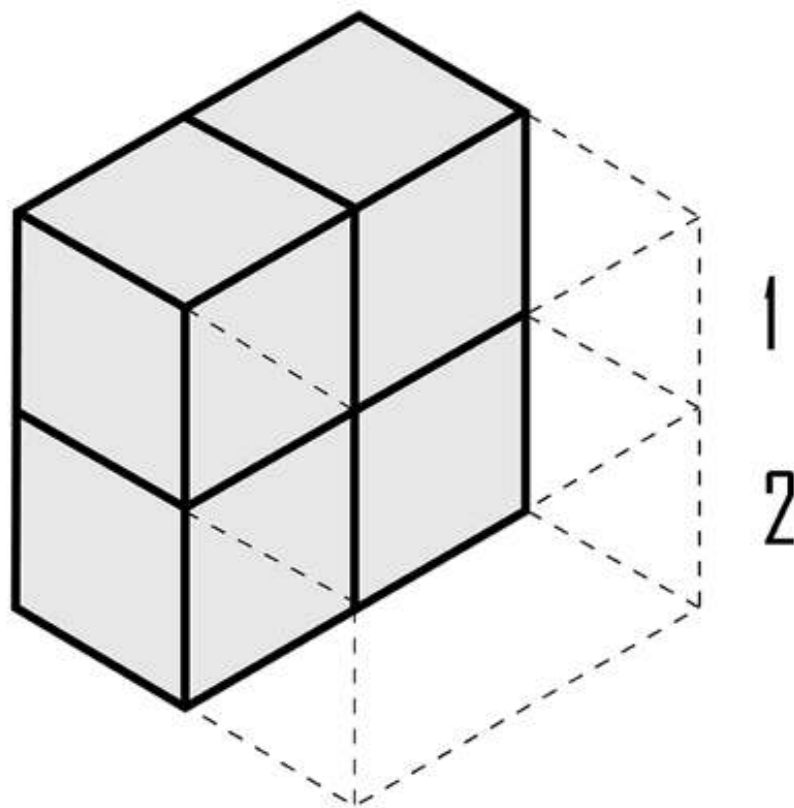
LIVING ROOM

BATHROOM & SERVICES

TERRACE

VERTICAL CIRCULATION

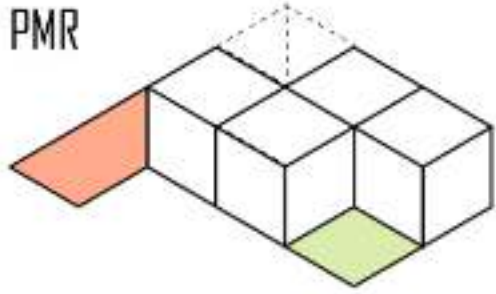
LEVELS



HOUSING

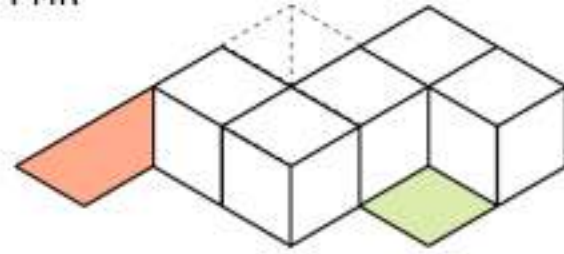
$45 M^2 \rightarrow 135 M^3$

PMR



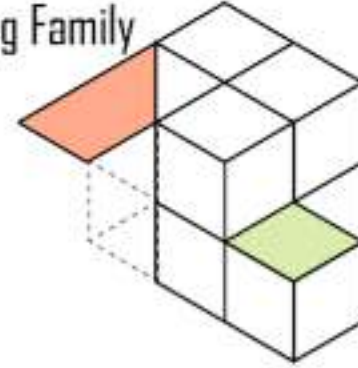
$54 M^2 \rightarrow 162 M^3$

PMR



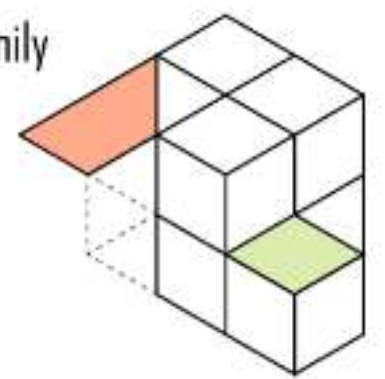
$63 M^2 \rightarrow 189 M^3$

Young Family

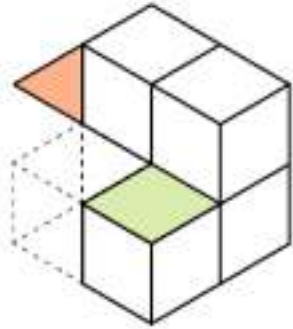


$72 M^2 \rightarrow 216 M^3$

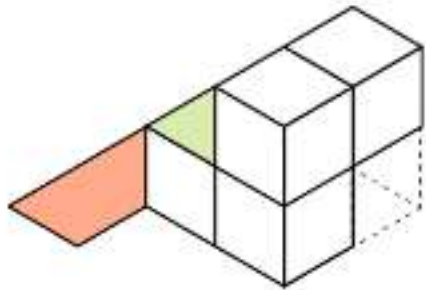
Big Family



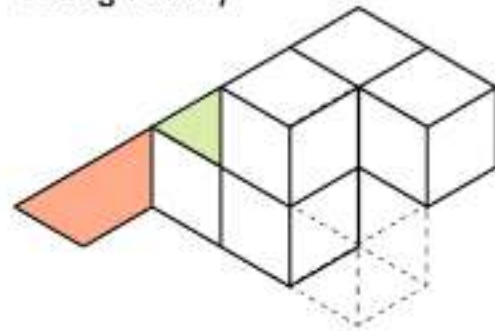
Students



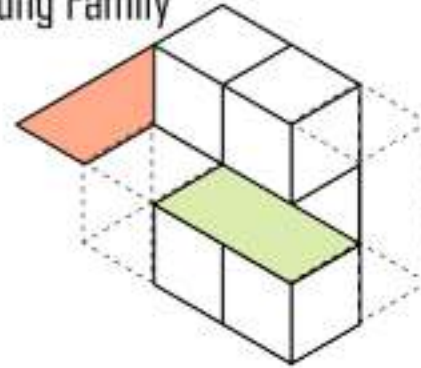
Students



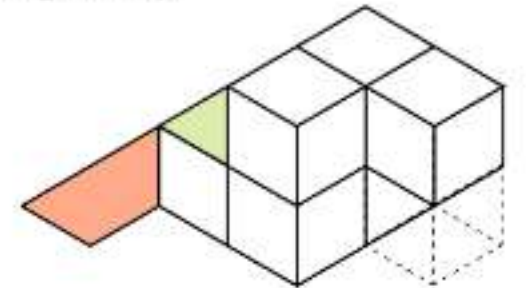
Young Family



Young Family

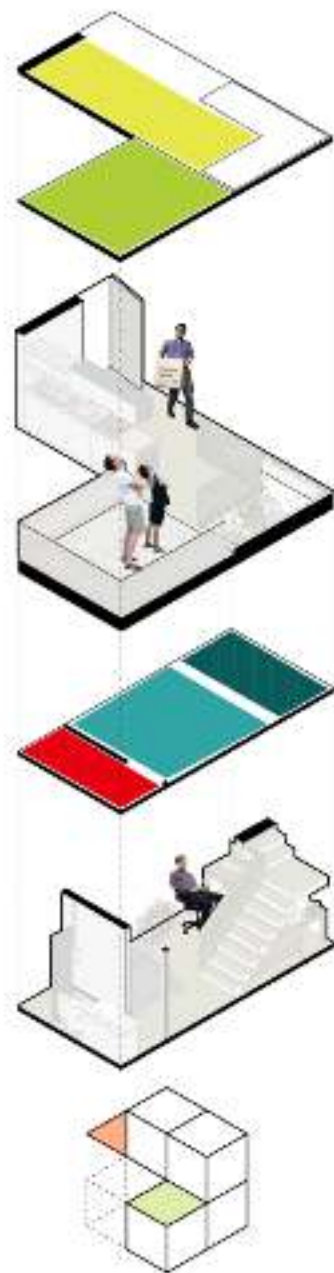
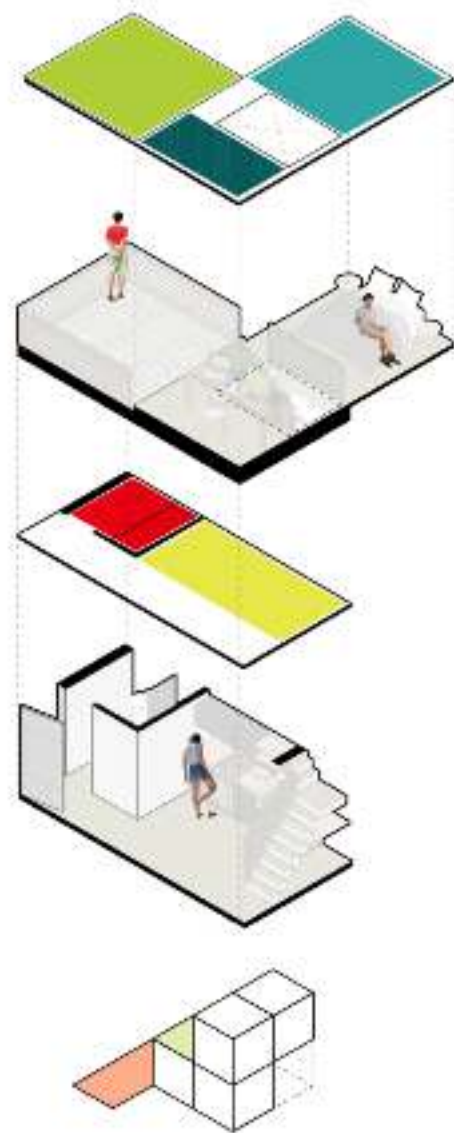


Big Family



Activar Windows

STUDENTS



45 M²-135 M³
TYPOLOGIES

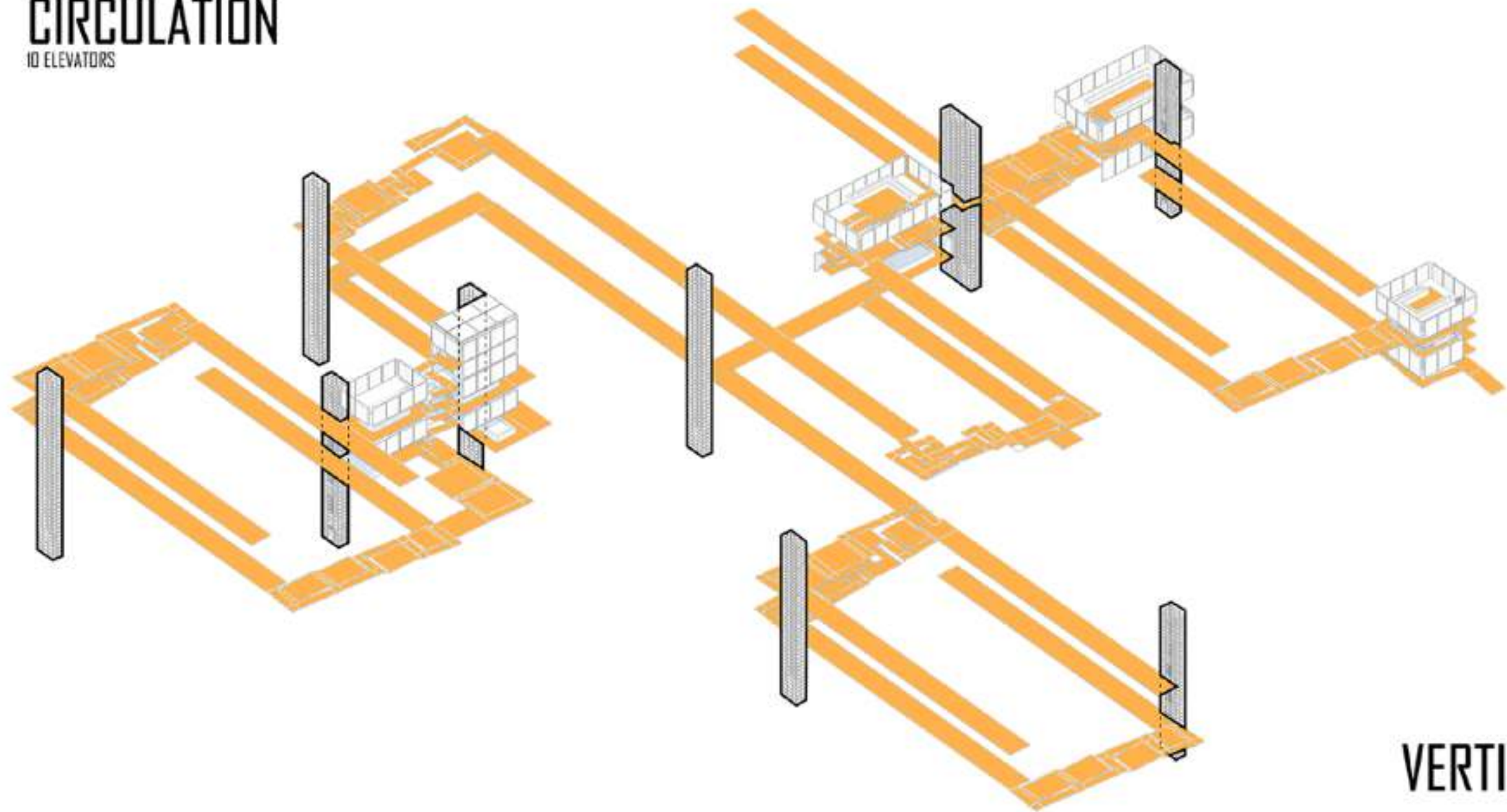


STREET IN CLOUDS



CIRCULATION

10 ELEVATORS



VERTICAL

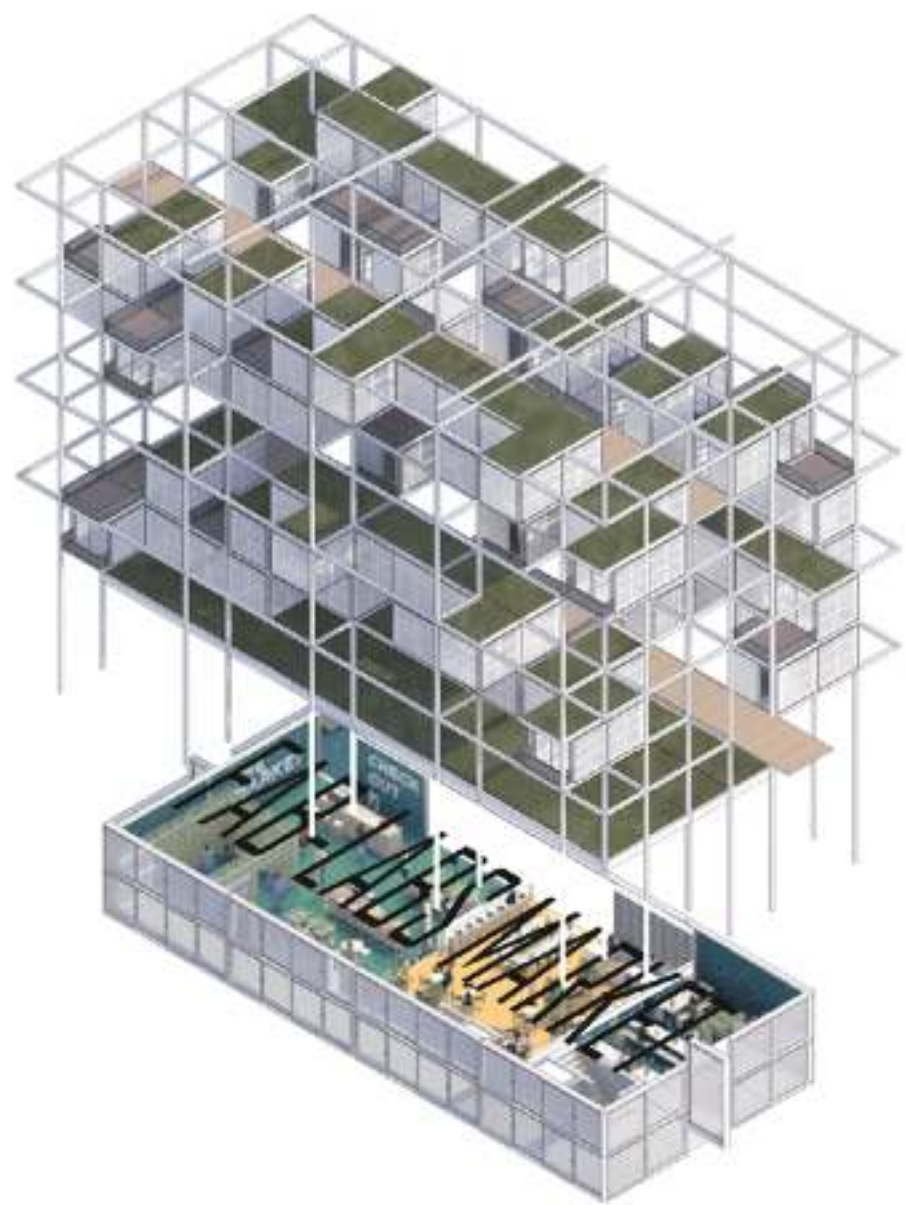


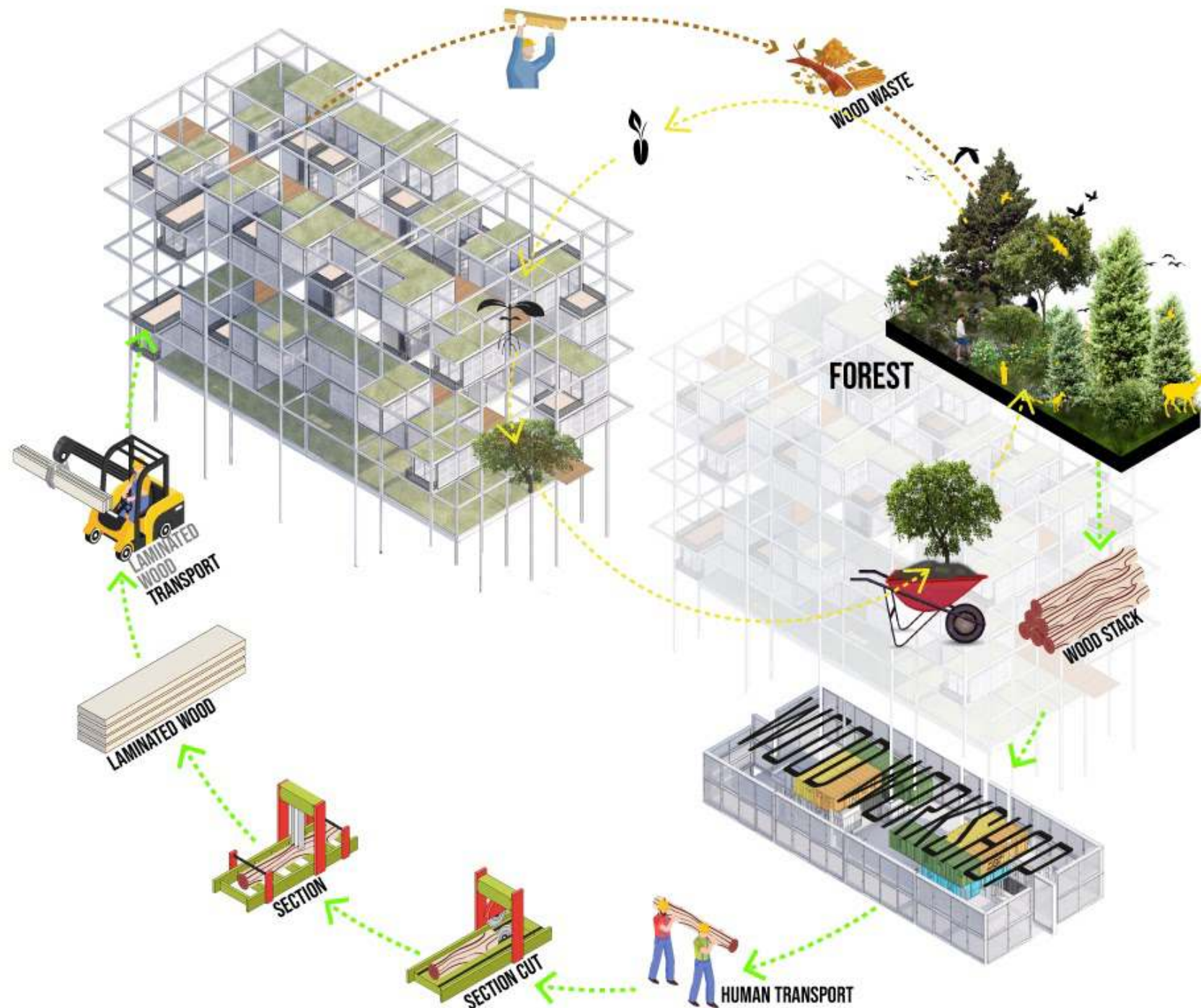






STREET  BRANCHES





- Ash Tree
- Sugar Maple
- American Basswood
- Silver Maple
- Red Maple
- Cottonwood



NATURAL LIGHT AUTONOMY
(SDA 40-60)



LIGHT & LIFE

ENERGY

Solar Panels(Germany)

Saint Gobain Power Max 4.4

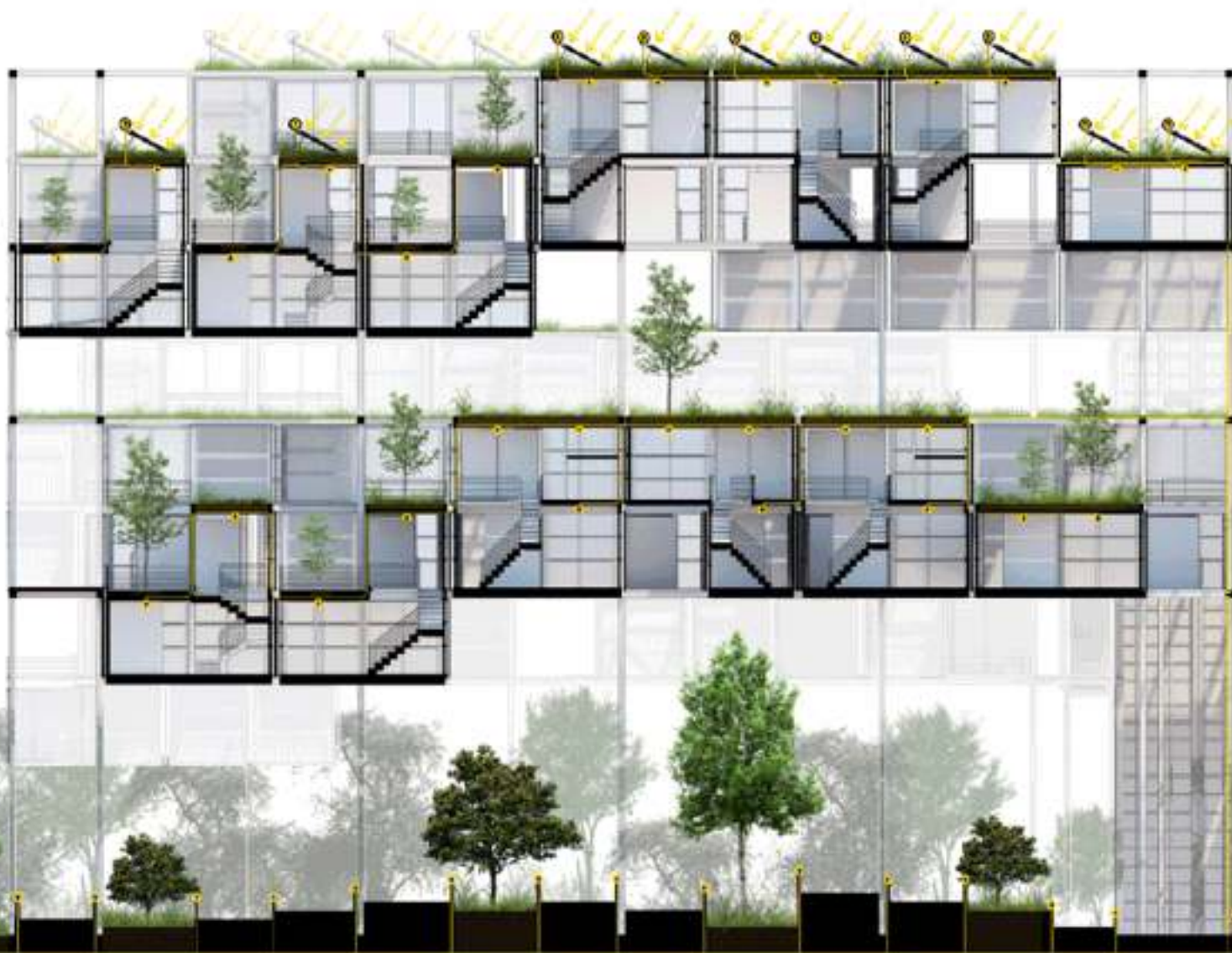
150 wp

AVANCIS 

High efficiency lights(France)

Led lights DOT tm

Keoplon 



+83.24%

ENERGY EFFICIENCY MEASURES

Energy (kWh/M2/Year)

2,831.75

ENERGY SAVINGS

MWh/Year

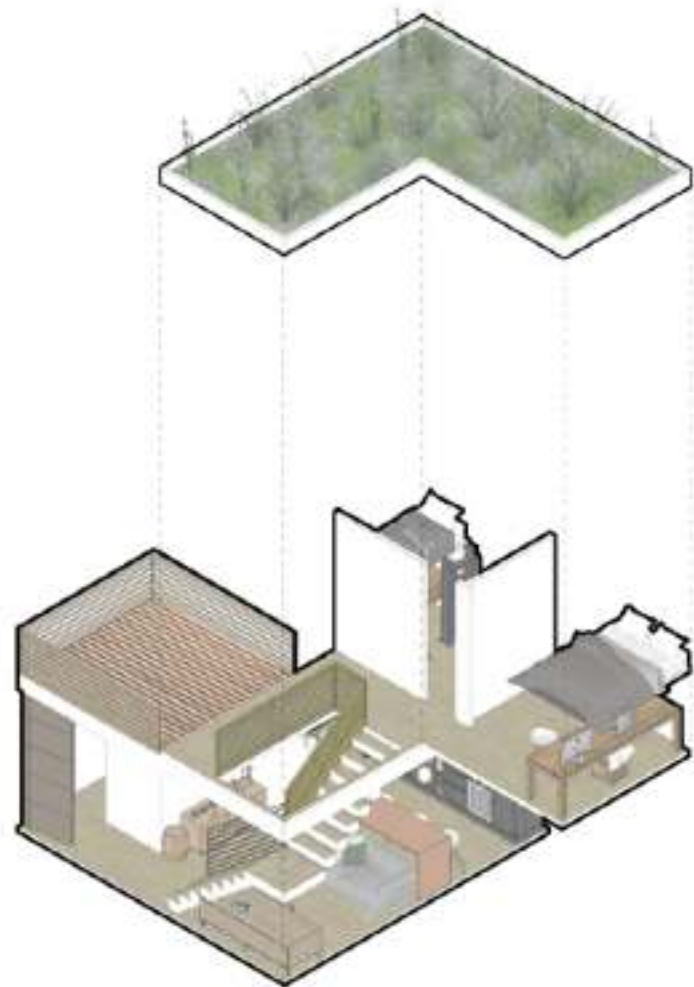
ECO QUARTIER



RIGHT TO COMFORT

MULTI-COMFORT

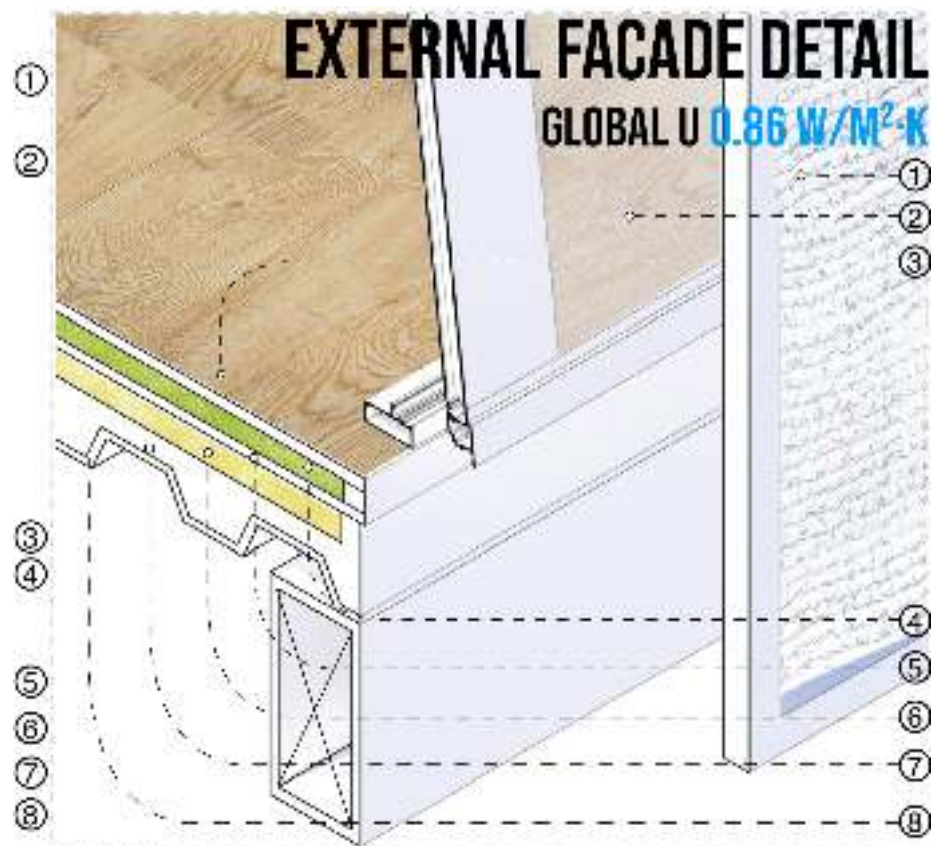
DOUBLE FACADE



FACADE

EXTERNAL FACADE DETAIL

GLOBAL U **0.86 W/M²-K**



Detail D



- CITEO** Recycled Plastic surface 1. 
- double Glazing (France) 2. 
- SGG Planitem 6 Pristine White 1 6 Argon 50 Planitem 5 Pristine White 
- LARVRE** Linear Floor Construction (France) 3. 
- Laminate flooring Oak look Stone 
- ISOVOX** Thermal insulation (France) 4. 
- Isover EXPORT EPS 100MM 
- Weber** Vapour retarder (France) 5. 
- Weber Dry 265 MPU 
- Externa Thermal insulation (France) 6. 
- ISOVOX** Isover Topvec Dr 1 032 Ultimate. 
- POINT.P** Concrete 2600 psi 200 mm (France) 7.
- Cimentipro Technosém CEM II
- Steel Deck Structure 8.

MULTI-COMFORT

DOUBLE FACADE
DOUBLE GLAZING
WEAVE WALL



HIGH VARIATIONS

MULTI-COMFORT

DOUBLE FACADE

DOUBLE GLAZING

WEAVE WALL

SOLAR CHART

THERMAL COMFORT

SUMMER



SUMMER

MULTI-COMFORT

DOUBLE FACADE

DOUBLE GLAZING

WEAVE WALL

SOLAR CHART

THERMAL COMFORT

SUMMER



WINTER







