

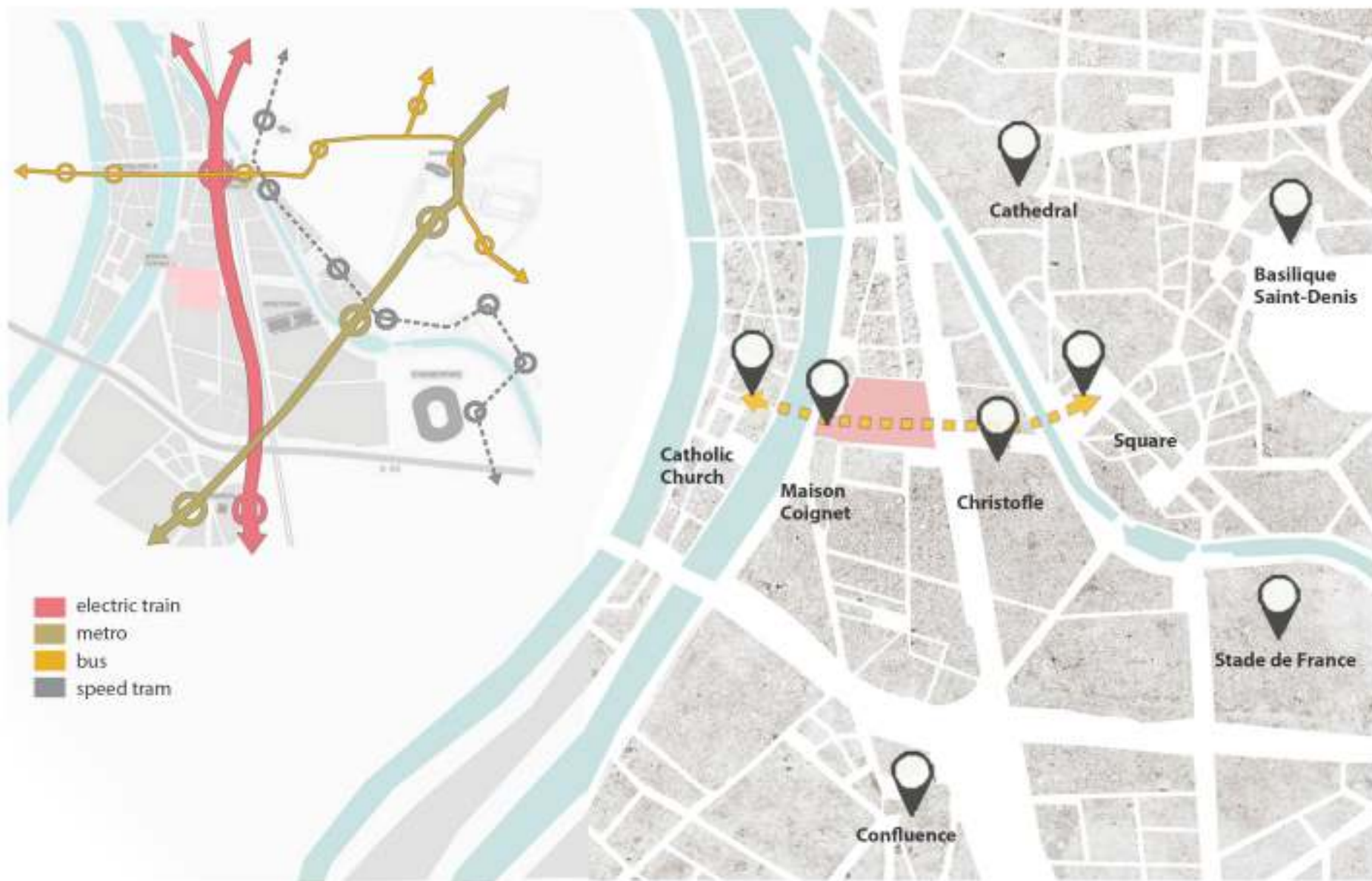


CONCRETE QUARTER

СЕН ГОБЕН МУЛЬТИКОМФОРТ, 2020

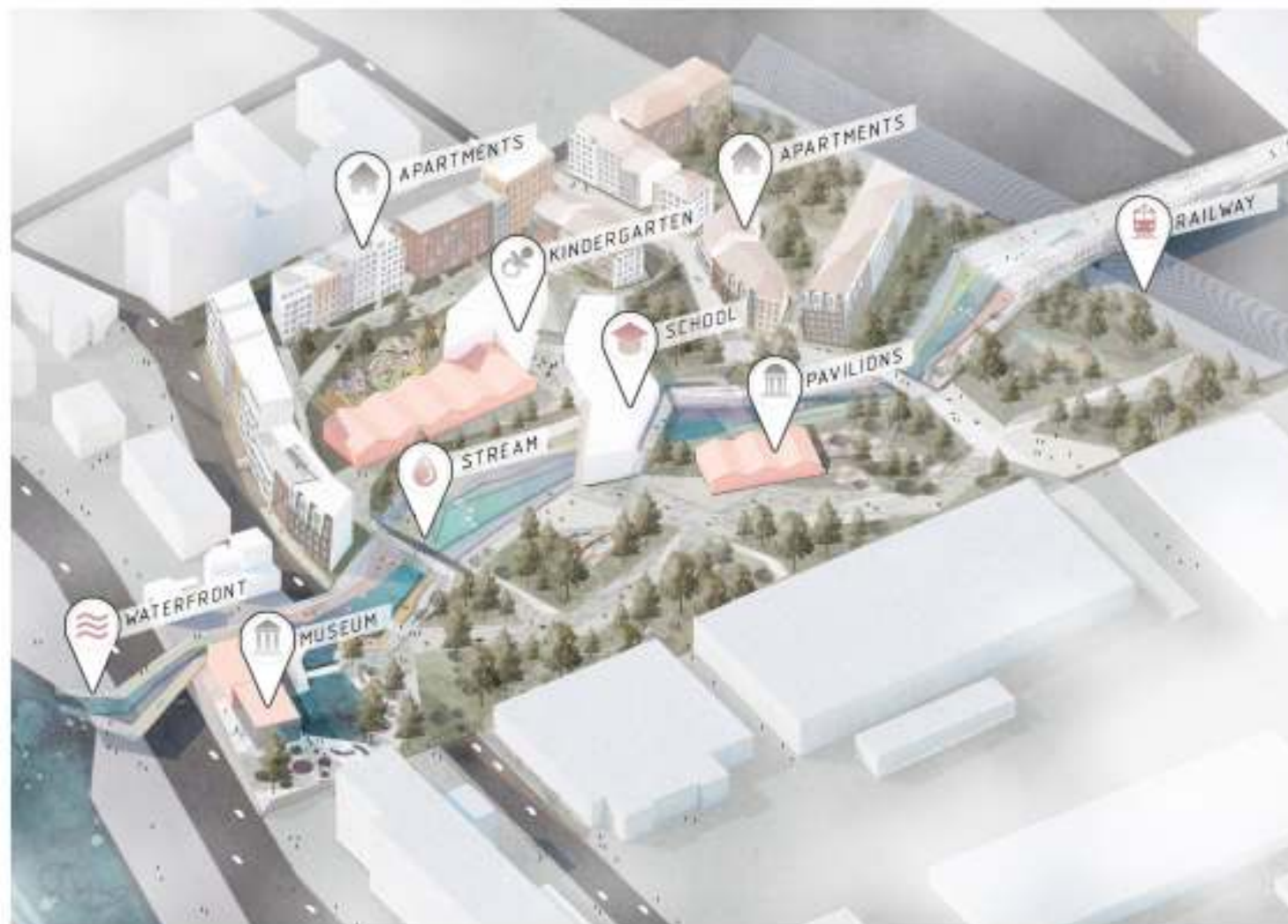
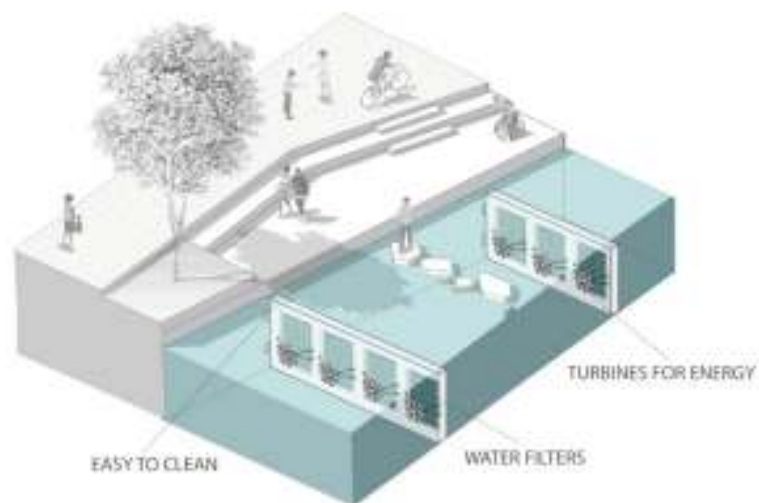
URBAN ANALYSIS

Analysis of the
surrounding
attractions
and transport system



PRACTICAL CONCEPT

The stream is the main feature of the project





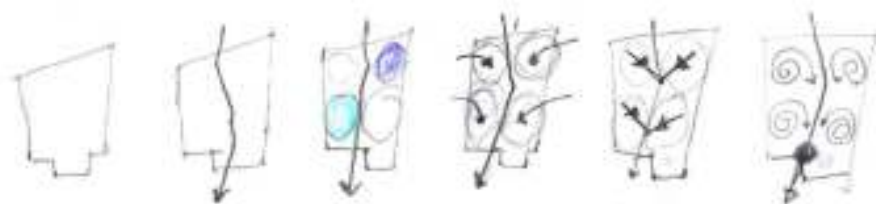
ARTISTIC CONCEPT

Rich history of the territory

CONCRETE THEME

Historical heritage
Maison de François Coignet





MASTERPLAN ANALYSIS



ZONING

- A01 - density < 80%
- A02 - density < 60%
- A03 - density < 20%

the territory of the school, kindergarten (zone A03)



HEIGHT OF HOUSES

- 4-story building
- 3-story building
- 2-story building
- school buildings (2 floors)

Houses have different number of storeys, towards the center it decreases, towards the edges it increases



PEDESTRIAN TRAFFIC

- inside the block on the street Coignet
- from the railway to the embankment
- along the river embankment Seine



DRAINAGE OF WATER

- direction of water
- stream

(The natural relief has a slope towards the Seine river, all rainwater will drain there)



PARKING

- arrival
- departure
- inter-quarter street with a passage to the parking



FIRE SYSTEM

- fire truck traffic
- hydrants are located near the stream, in case of fire, water is taken from the stream
- stream
- communication between stream and hydrant





The alley by railways



Details. The canopy cover.

RESIDENTIAL FUNCTION

The floor plan and
variation of apartments



TYPE 1
 $S = 135,2 \text{ m}^2$



TYPE 2
 $S = 98,6 \text{ m}^2$



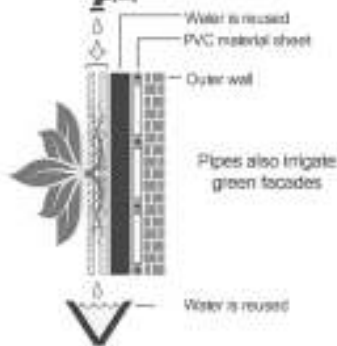
TYPE 3
 $S = 103,1 \text{ m}^2$



TYPE 4
 $S = 52,3 \text{ m}^2$



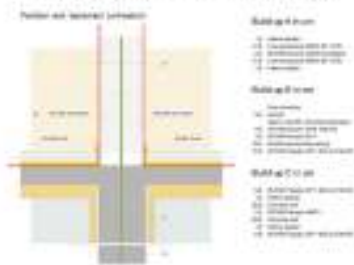
The exhibits are created by the visitors themselves



External wall+overlap



Foundation + internal wall



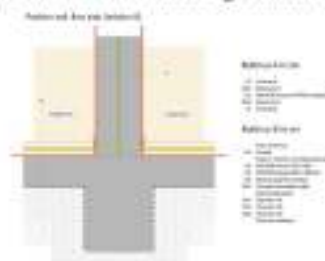
External wall + roof



Outer wall + window

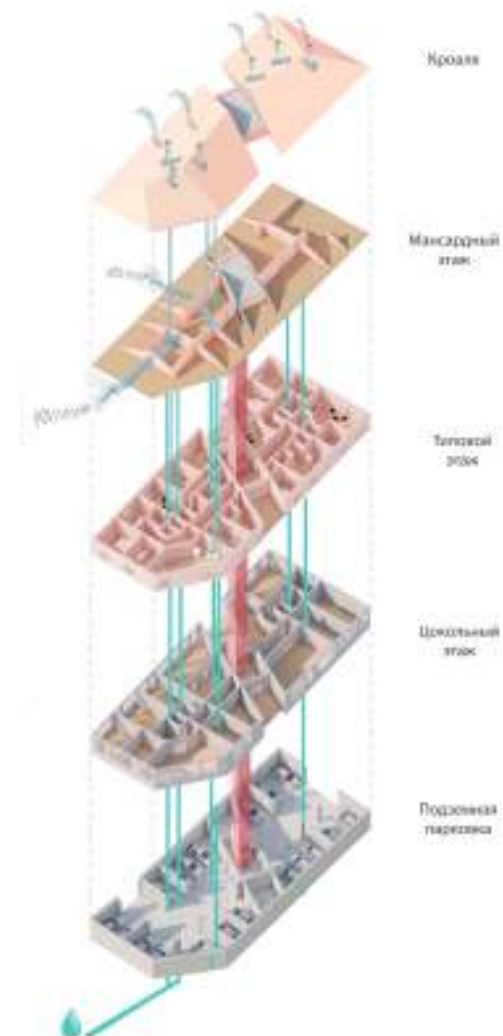
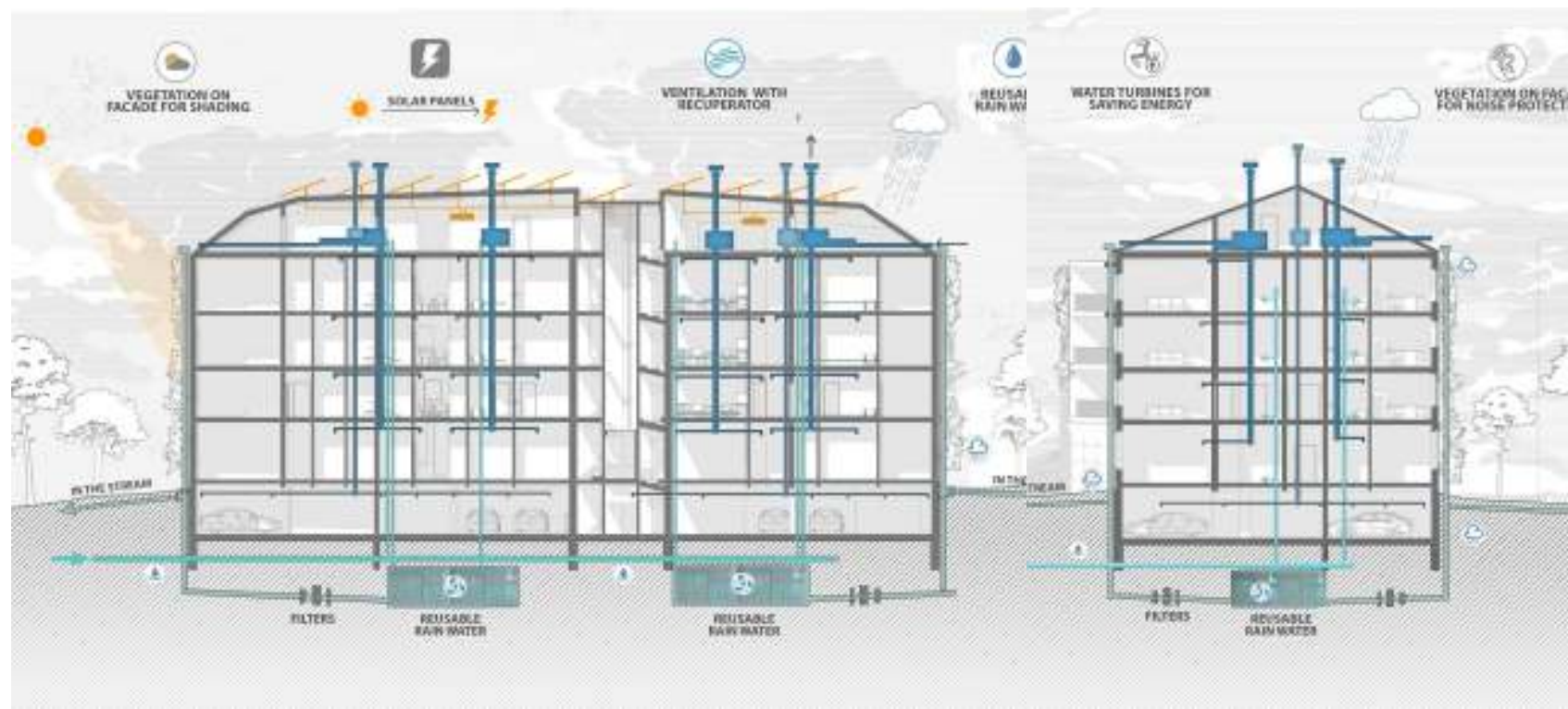


Foundation + underground wall





WATER USING STRATEGY ENERGY EFFICIENT HOUSE



RAINWATER FALLING SYSTEM. Water as a source of energy

1505mm

in annual precipitation in Saint Denis

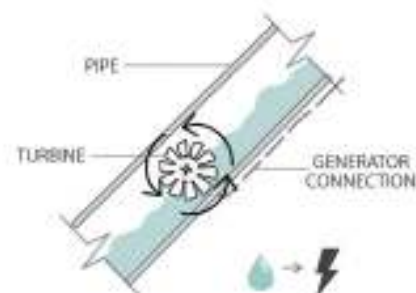
1 PIPE per hour of rain generates
0.5 kWh OF ENERGY

0.5 kWh =  **3.5 HOURS**

0.5 kWh =  **4.5 HOURS**

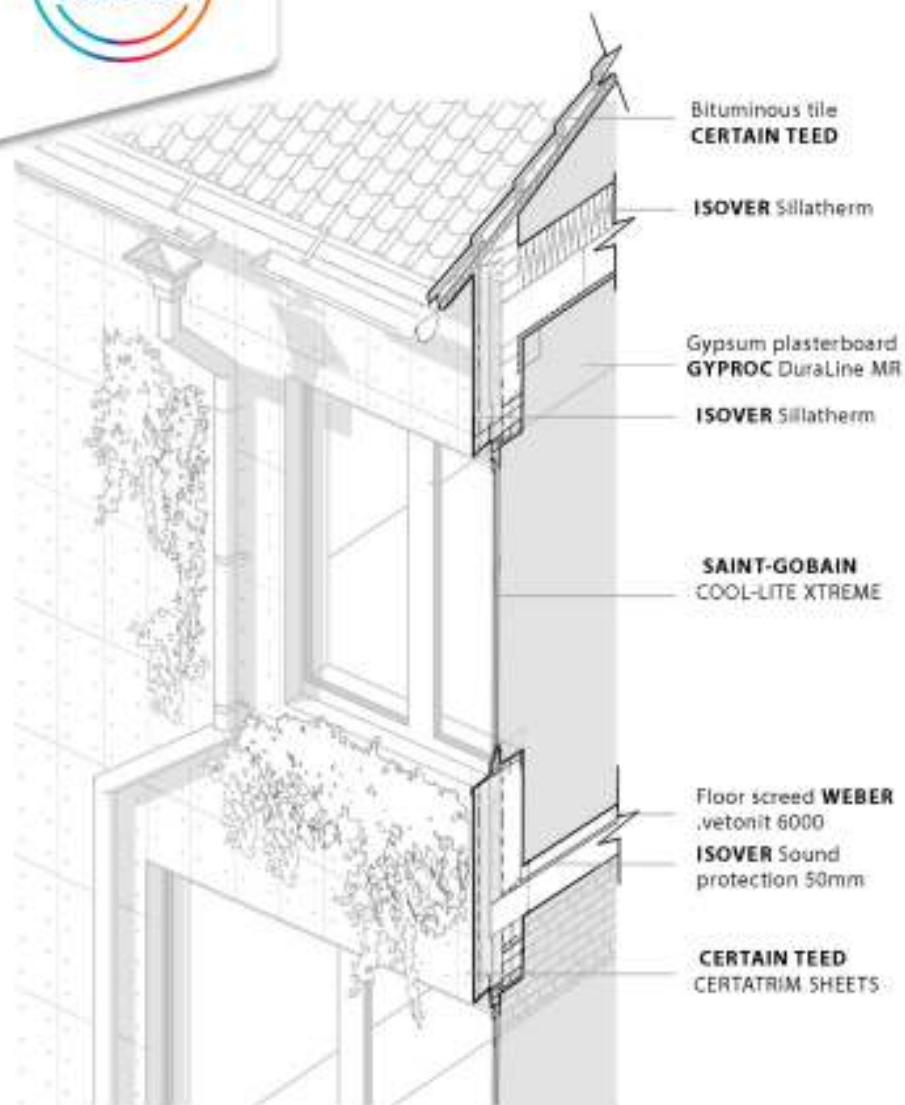
0.5 kWh =  **4 TIMES**

X 5 PIPES FOR ONE HOUSE



Rainwater falling through pipes turns turbines and thus generates **ELECTRICITY**





AIR QUALITY

Green facade



Isover material
British gypsium
"Active air"



Forced ventilation system
with
heat recovery



FIRE SAVETY

Gyproc material
Fire resistant
materials



Pipes on the facade
=
hoses in case
of fire



TERMAL COMFORT

SAINT GOBAIN
glass material



The tightness
concept of a
passive house



Orientation
of houses
relative to
the cardinal
points



View from the window
to **st. Coignet**



View of the courtyard



NURSERY AND PRIMARY SCHOOL ACTIVITY CENTER

ZONING DIAGRAM



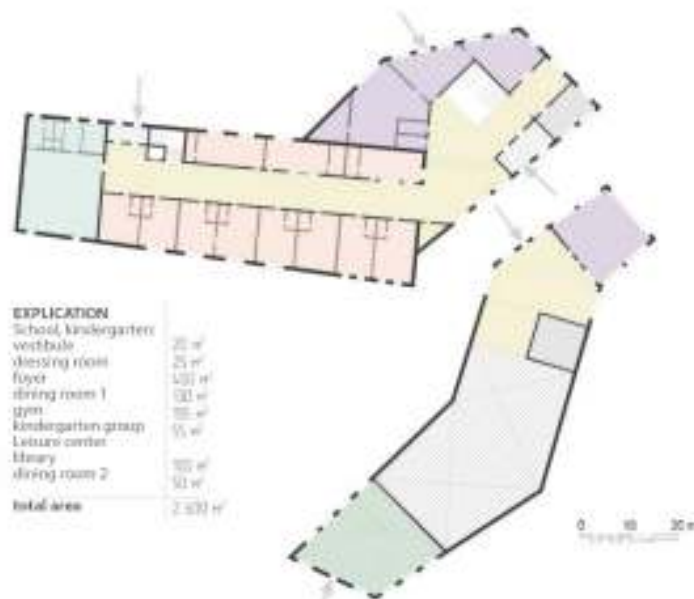
FIRE SYSTEM



WATER DRAINAGE



PUPILS TRAFFIC



VISUALIZATION

Passage under
activity centre

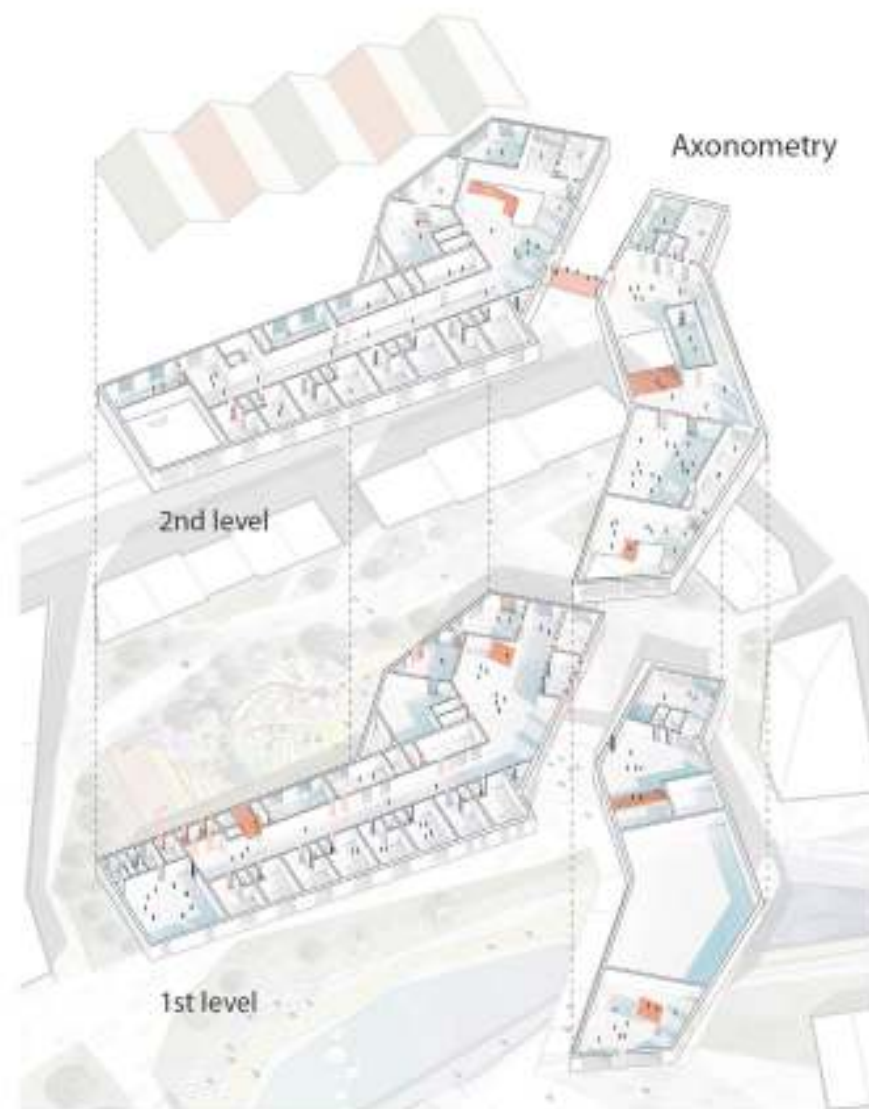


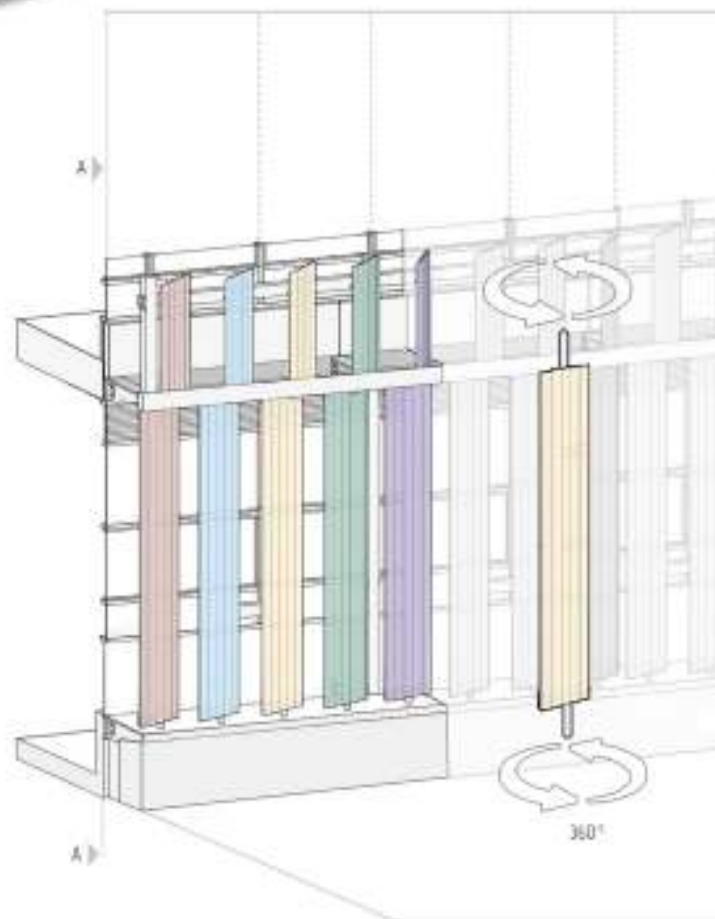
NURSERY AND PRIMARY SCHOOL ACTIVITY CENTER

Nursery school and primary school



Facade





THE HERITAGE

Maison de François Coignet

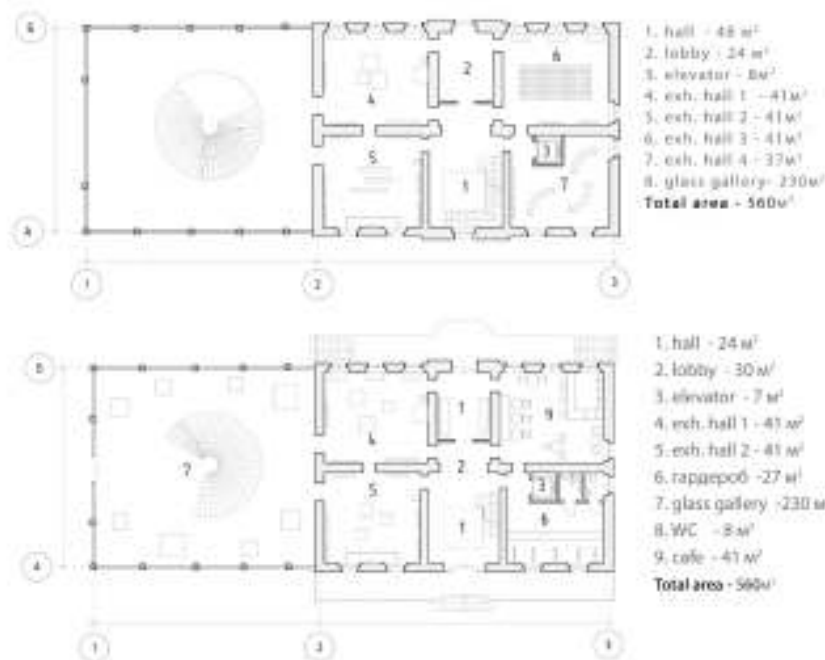
CONCRETE MUSEUM



FACADE



FORM CONCEPT



VISUALIZATION



VISUALIZATION
Concrete museum

