

GREY WATER OUT PUTS- WITH OUTLINED PEAKS



N





-198
 Avg. Water use daily - 213.431L
Grey Water -
96.133 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-140
 Avg. Water use daily 153.391L
Grey Water -
68.089 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-156
 Avg. Water use daily 168.402L
Grey Water -
75.780 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-420
 Avg. Water use daily 448.488L
Grey Water -
198.180 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-344
 Avg. Water use daily 375.466L
Grey Water -
169.038 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-102
 Avg. Water use daily 119.206L
Grey Water -
49.590 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-80
 Avg. Water use daily 115.476L
Grey Water -
51.961 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-138
 Avg. Water use daily 151.316L
Grey Water -
68.089 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-256
 Avg. Water use daily 273.306L
Grey Water -
122.985 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-200
 Avg. Water use daily 216.291L
Grey Water -
97.312 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-140
 Avg. Water use daily 142.898L
Grey Water -
64.282 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-Hotel, Gvrn.
 Avg. Water use daily 213.431L
Grey Water -
96.133 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-230
 Avg. Water use daily 248.108L
Grey Water -
117.054 L.per/24hr

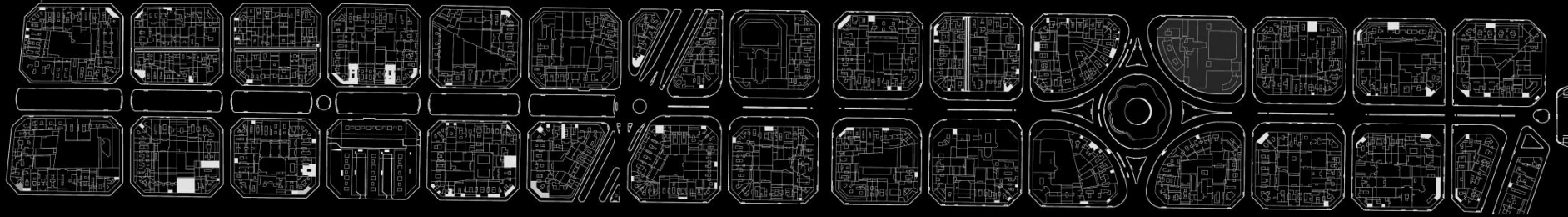
AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-200
 Avg. Water use daily 216.409L
Grey Water -
96.570 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-156
 Avg. Water use daily 168.402L
Grey Water -
45.000 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market



-125 -Gvrn. Of.
 Avg. Water use daily 124.466L
Grey Water -
61. L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-144
 Avg. Water use daily 153.791L
Grey Water -
70.065 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-140
 Avg. Water use daily 151.486L
Grey Water -
68.22 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-400
 Avg. Water use daily 272.346L
Grey Water -
122.553 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-332
 Avg. Water use daily 348.796L
Grey Water -
162.351 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-140
 Avg. Water use daily 151.486L
Grey Water -
87.030 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-140
 Avg. Water use daily 146.486L
Grey Water -
65.970 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-214
 Avg. Water use daily 226.876L
Grey Water -
102.091 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-170
 Avg. Water use daily 194.491L
Grey Water -
87.493 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-124
 Avg. Water use daily 133.306L
Grey Water -
59.985 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-160 -School
 Avg. Water use daily 216.291L
Grey Water -
106.200 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-192
 Avg. Water use daily 173.406L
Grey Water -
78.228 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-240
 Avg. Water use daily 272.806L
Grey Water -
122.787 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-256
 Avg. Water use daily 213.431L
Grey Water -
109.235 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

-166
 Avg. Water use daily 176.446L
Grey Water -
79.398 L.per/24hr

AREAS
 Roof (empty) 1270m2
 Terrace 126m2
 Scale 200m2
 Activity
 13 houses
 1 empty shop
 1 supermarket
 1 Fast market

ACTIVITY AREAS



RL 12.134M

RL 17.296M

RL 24.379M

RL 26.405M

RL 30.251M

RL 33.49M

RL 40.621M

RL 43.6M

RL 53.09M

- 198

Avr. Water use daily - 213.631L

Grey Water -

96.133 L.per/24hr

AREAS
Roof empty - 6736m²
terrace - 1326m²
facade - 2893m²

Activity -
18 business
3 empty shops
7 Government
2231 fruit market

- 140

Avr. Water use daily - 151.310L

Grey Water -

68.089 L.per/24hr

AREAS
Roof empty - 3312m²
terrace - 731m²
facade - 2446m²

Activity -
21 business
3 empty shops
3 restaurant, 1 cafe
1 Fruit market

- 156

Avr. Water use daily - 168.400L

Grey Water -

75.780 L.per/24hr

AREAS
Roof empty - 3510m²
terrace - 1206m²
facade - 3803m²

Activity -
22 business
2 cafe, patisserie, bakery
5 empty shops
1 Fruit market

- 420

Avr. Water use daily - 440.400L

Grey Water -

198.180 L.per/24hr

AREAS
Roof empty - 4787m²
terrace - 1842m²
facade - 3903m²

Activity -
27 business
1 Institute
1 restaurant
2 super market
2 empty shops

- 344

Avr. Water use daily - 375.640L

Grey Water -

169.038 L.per/24hr

AREAS
Roof empty - 4847m²
terrace - 726m²
facade - 4019m²
Facade Historic - 500m²

Activity -
26 business
1 empty shops
1 restaurant, cafe

- 102

Avr. Water use daily - 110.200L

Grey Water -

49.590 L.per/24hr

AREAS
Roof empty - 4098m²
terrace - 2245m²
facade - 3696m²

Activity -
17 business
1 empty shops

- 80

Avr. Water use daily - 115.470L

Grey Water -

51.961 L.per/24hr

AREAS
Roof empty - 3612m²
terrace - 1650m²
facade - 1931m²

Activity -
14 business
1 restaurant 1 cafe

- 138

Avr. Water use daily - 151.310L

Grey Water -

68.089 L.per/24hr

AREAS
Roof empty - 1678m²
terrace - 461m²
facade - 940m²
Cathedral - 3770m²

Activity -
17 business
2 business
1 church

- 256

Avr. Water use daily - 273.300L

Grey Water -

122.985 L.per/24hr

AREAS
Roof empty - 5055m²
terrace - 1886m²
facade - 3770m²
Historical - 1139m²

Activity -
17 business
1 empty shops

- 200

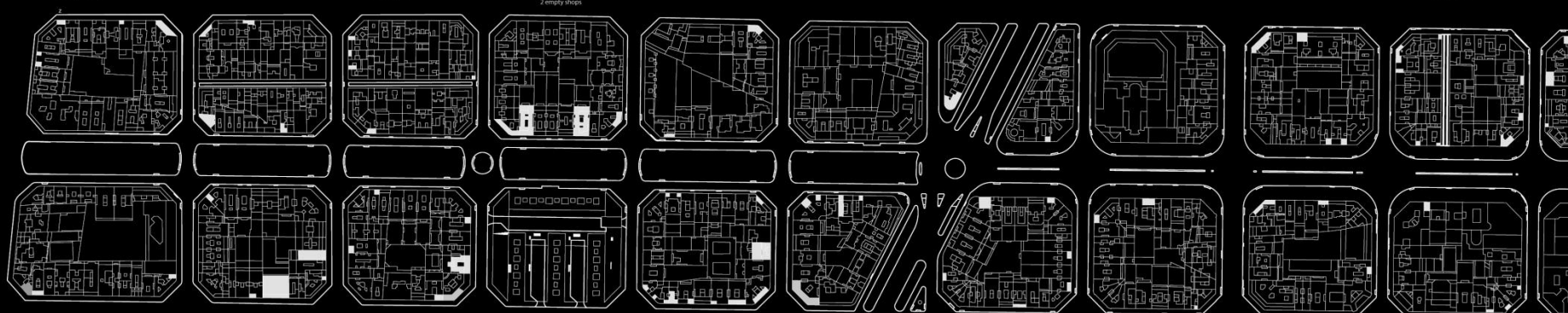
Avr. Water use daily - 216.250L

Grey Water -

97.312 L.per/24hr

AREAS
Roof empty - 4639m²
terrace - 1520m²
facade - 3770m²

Activity -
27 business
1 institute
2 restaurant
2 super market
2 empty shops



- 125 - Gvrn. Of.

Avr. Water use daily - 134.400L

Grey Water -

61. L.per/24hr

AREAS
Roof empty - 7646m²
terrace - 1314m²
facade - 1381m²

Activity -
17 business
3 empty shops
7 Government
2 restaurant
3 market

- 144

Avr. Water use daily - 155.700L

Grey Water -

70.065 L.per/24hr

AREAS
Roof empty - 4779m²
terrace - 2050m²
facade - 3581m²

Activity -
18 business
2 empty shops
7 Government
2 restaurant
2 Super market
1 Flower market

- 140

Avr. Water use daily - 151.600L

Grey Water -

68.22 L.per/24hr

AREAS
Roof empty - 5506m²
terrace - 1356m²
facade - 3581m²

Activity -
18 business
5 empty shops
1 Government
2 restaurant
1 Super market
1 flower shop

- 400

Avr. Water use daily - 272.340L

Grey Water -

122.553 L.per/24hr

AREAS
Roof empty - 4217m²
terrace - 6m²
facade - 4418m²

Activity -
32 business
3 empty shops
1 Flower market

- 332

Avr. Water use daily - 360.780L

Grey Water -

162.351 L.per/24hr

AREAS
Roof empty - 5618m²
terrace - 1949m²
facade - 2160m²

Activity -
26 business
1 Institute
1 empty shops
1 cafe, 1 bar, 1 restaurant
1 super market
2 flower store
1 fruit store

- 140

Avr. Water use daily - 193.400L

Grey Water -

87.030 L.per/24hr

AREAS
Roof empty - 4273m²
terrace - 8779m²
facade - 3134m²

Activity -
21 business
2 cafe, 1 restaurant
1 Super Market

- 140

Avr. Water use daily - 146.600L

Grey Water -

65.970L.per/24hr

AREAS
Roof empty - 5480m²
terrace - 8779m²
facade - 1554m²
Historical facade - 1565m²

Activity -
2 restaurant 3 cafe
1 Flower market

- 214

Avr. Water use daily - 226.870L

Grey Water -

102.091 L.per/24hr

AREAS
Roof empty - 5022m²
terrace - 1365m²
facade - 1834m²
Historical facade - 673m²

Activity -
26 business
1 Institute
1 empty shops
7 cafe, 1 bar, 1 restaurant
1 super market
2 flower store
1 fruit store

- 170

Avr. Water use daily - 194.430L

Grey Water -

87.493 L.per/24hr

AREAS
Roof empty - 5461m²
terrace - 1411m²
facade - 2028m²
Historical facade - 656m²

Activity -
21 business
1 cafe, 1 restaurant
1 Super Market

- 124

Avr. Water use daily - 133.300L

Grey Water -

59.985 L.per/24hr

AREAS
Roof empty - 5800m²
terrace - 421m²
facade - 1318m²
Historical facade - 2182m²

Activity -
32 business
3 empty shops
1 Flower market

- 1

Avr. Water use daily - 134.400L

Grey Water -

100 L.per/24hr

AREAS
Roof empty - 5800m²
terrace - 421m²
facade - 1318m²
Historical facade - 2182m²

Activity -
26 business
1 Institute
1 empty shops
7 cafe, 1 bar, 1 restaurant
1 super market
2 flower store
1 fruit store

ACTIVITY AREAS



N

RL 12.134M

RL 17.296M

RL 24.379M

RL 26.405M

RL 30.251M

RL 33.49M

RL 40.621M

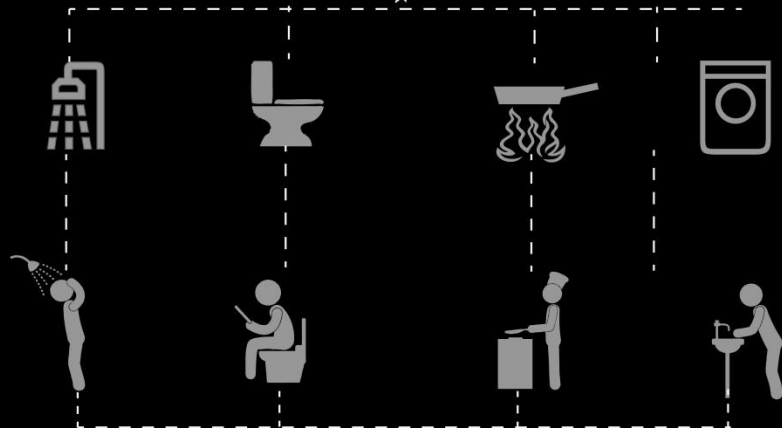
RL 43.6M

RL 53.09M

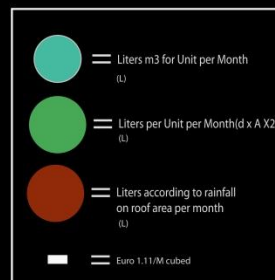
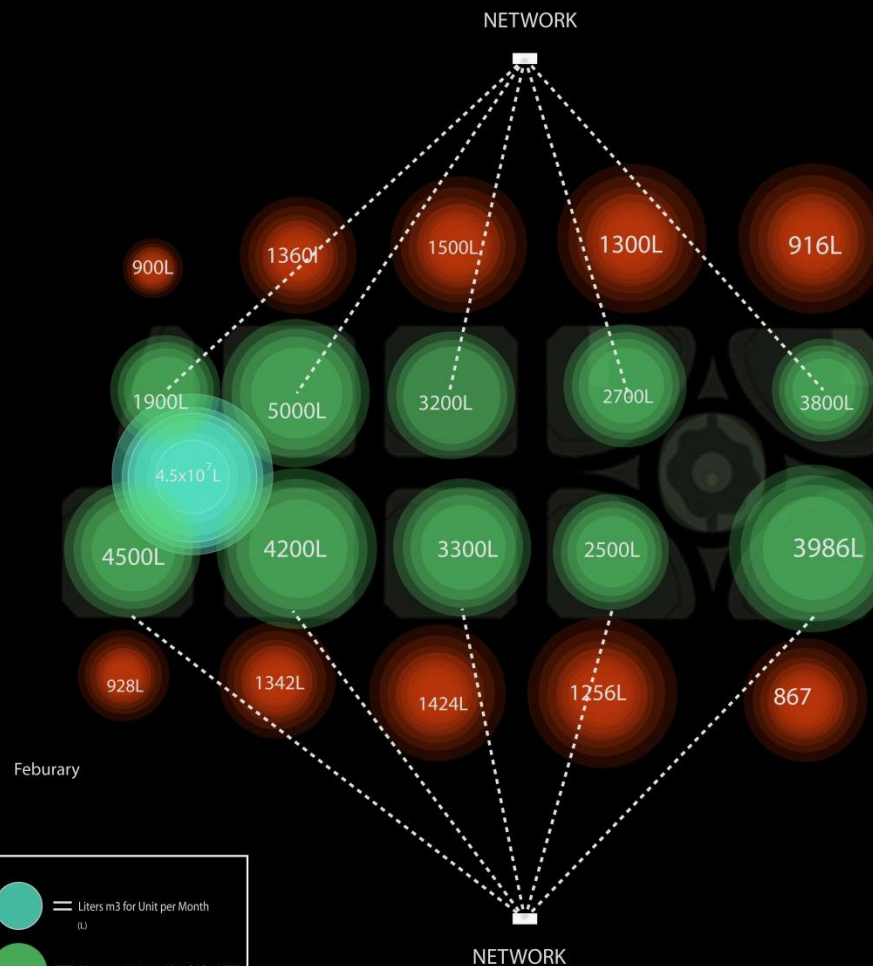
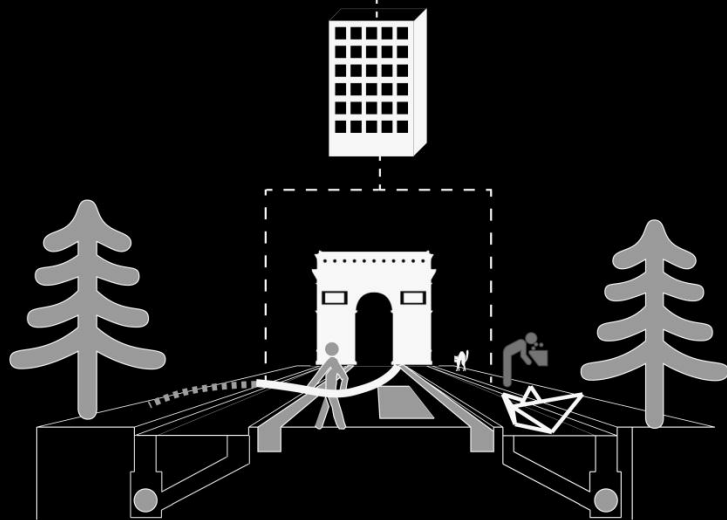
WATER



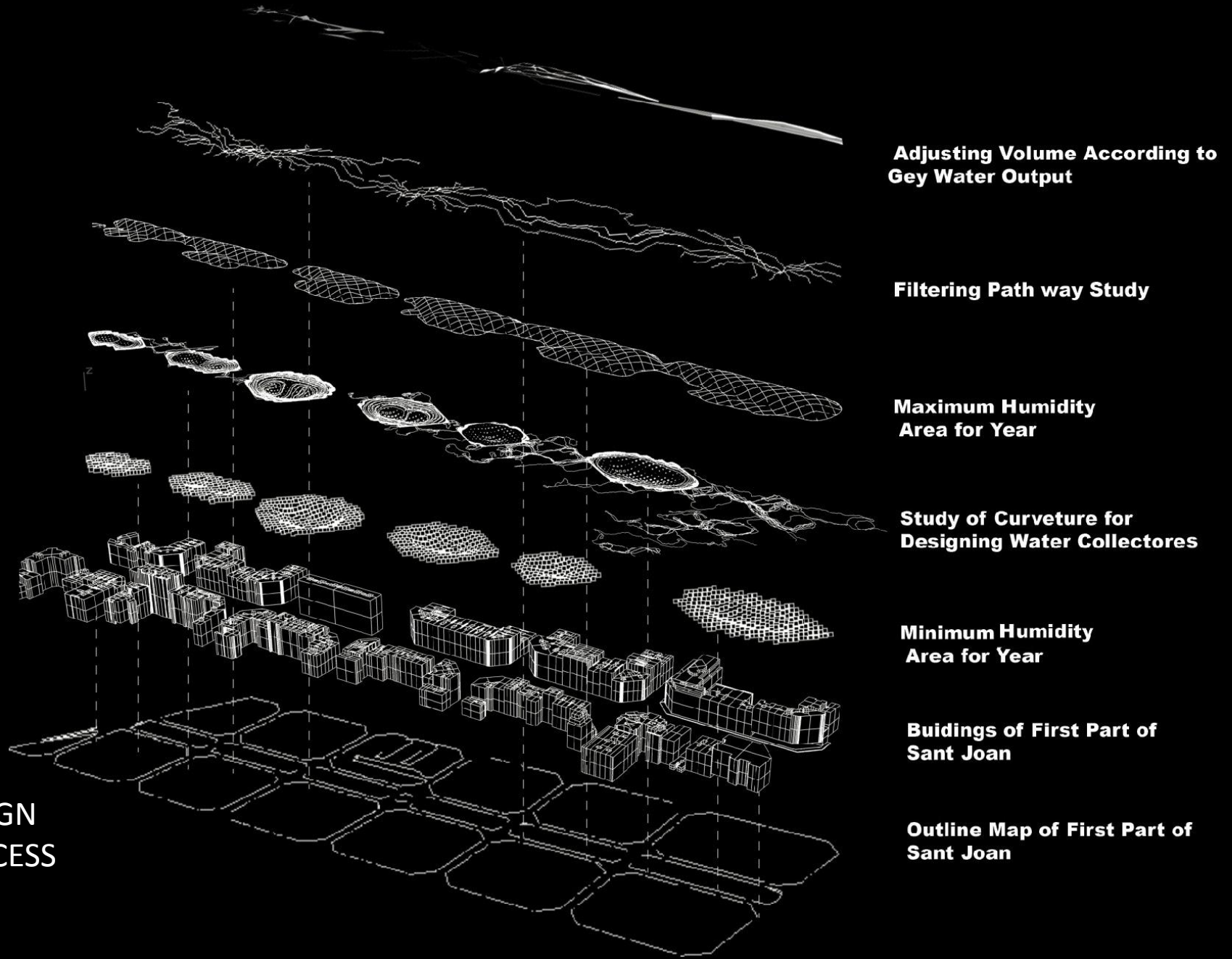
BUILDING WATER CONSUMPTION

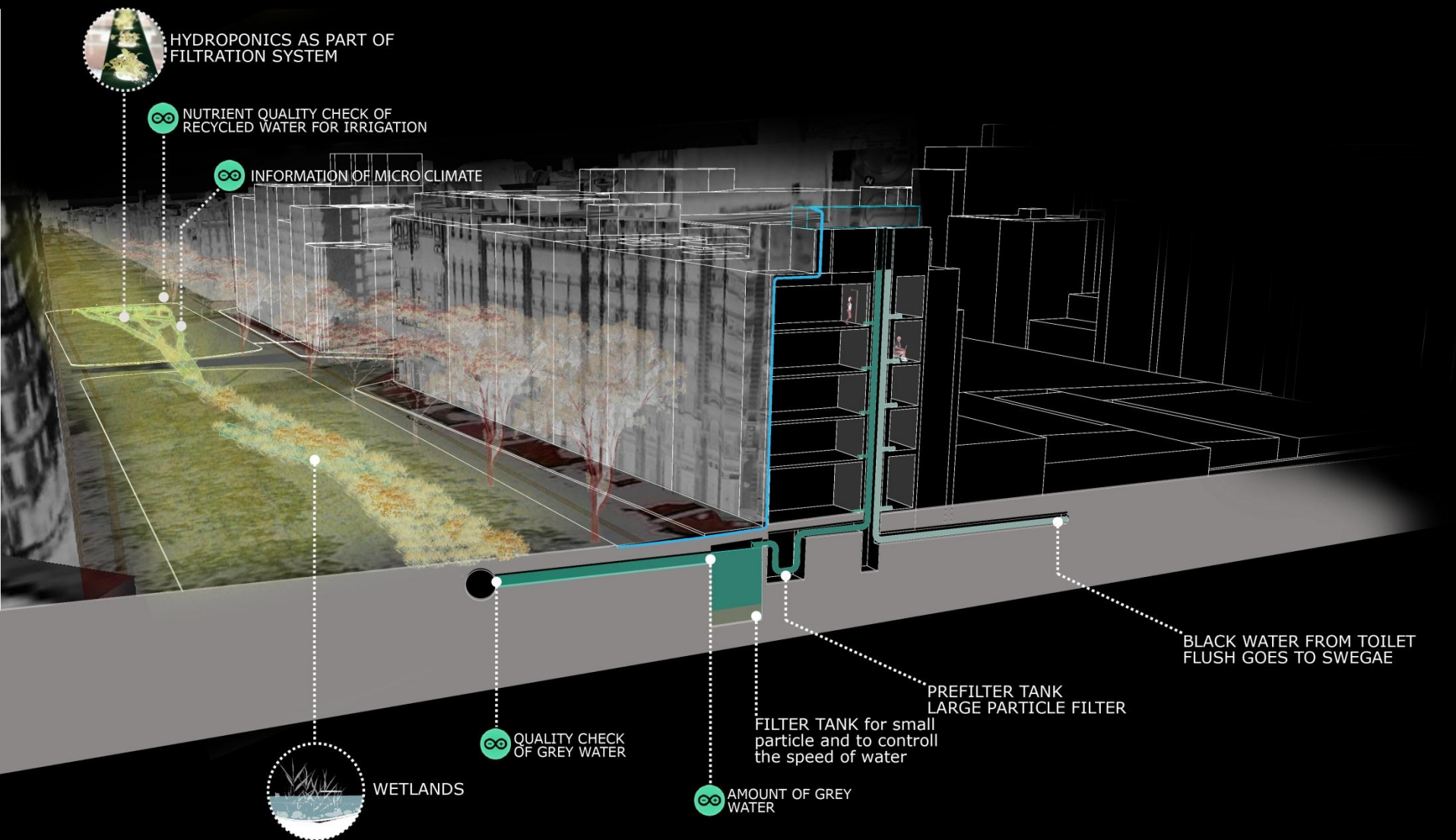


ROAD WATER CONSUMPTION



DESIGN
PROCESS





METABOLIC FIBERS

[WHO WE ARE](#)[INFRASTRUCTURE + RTD](#)[How to improve our system](#)[GET INVOLVED](#)[APP - KIDO](#)[CONTACT](#)

- WELCOME TO Passeig de Sant Joan Interface

This interface is about a cleansing system through hedonistic sustainability. The more you consume water, the more you help the system to improve itself. Look at ways of how you can improve the system and benefit [fREAD MORE](#)

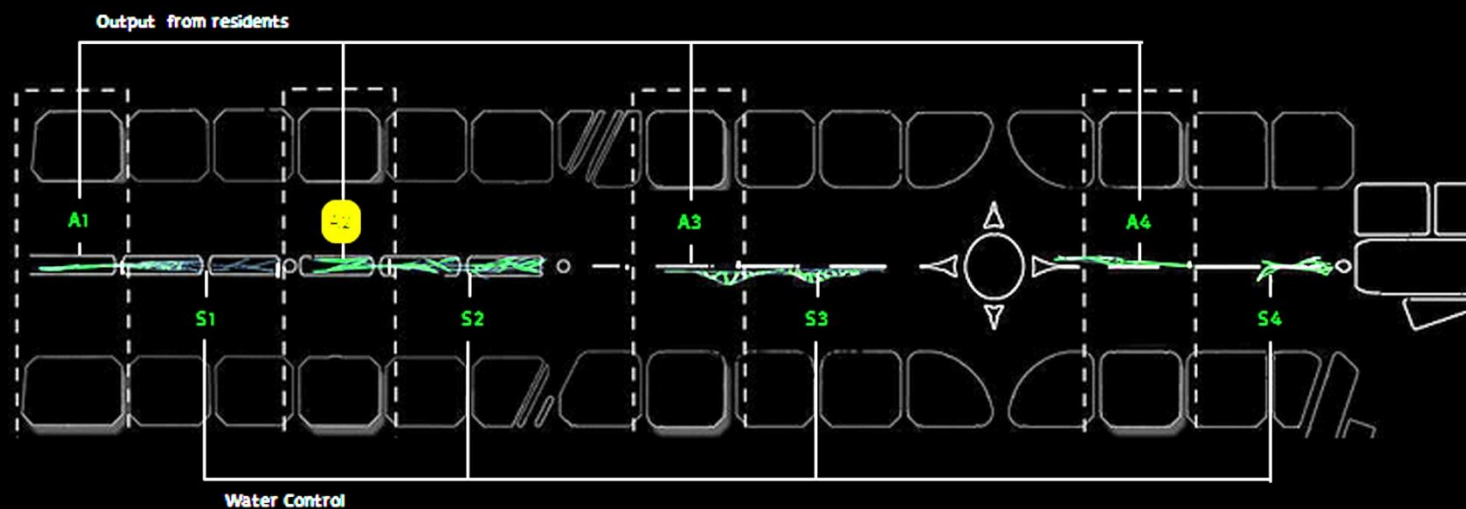
My food is important for me. Because it's from **My garden**



RTD

A- Sensor output

S- Irrigation control point



METABOLIC FIBERS

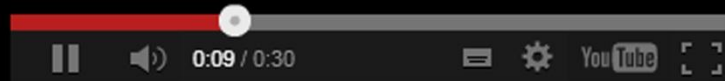
[WHO WE ARE](#)[INFRASTRUCTURE + RTD](#)[How to improve our system](#)[GET INVOLVED](#)[APP - KIDO](#)[CONTACT](#)

Chemical free Products

<http://www.aubrey-organics.com/>

<http://www.bio-pac.com/>

<http://www.ecos.com/>



Hydroponic system - phase 2

the surrounding restaurants may benefit from this with a possible harvest 43814kg of lettuce per 45 days due to 146m.sq volume of pipes below becomes a pavilion for social .. activity

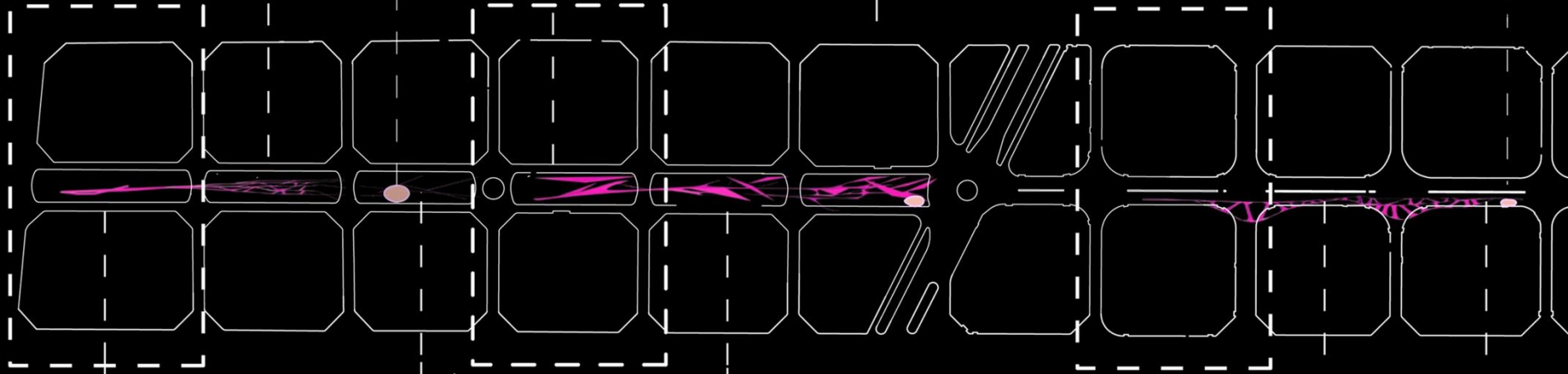
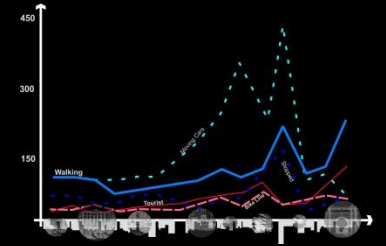
WetLand - phase 1

Pool for remaining filtered water and rainwater



Hydroponic system - phase 2

This 3rd phase would allow more oxidation and at the same time open activity below. People will increase due to the lush produce. The remaining water is built up in a pool but also shared .. through irrigation down hill



WetLand - phase 1

with surrounding suitable flooring for the high level of sport activity



Irrigation system -

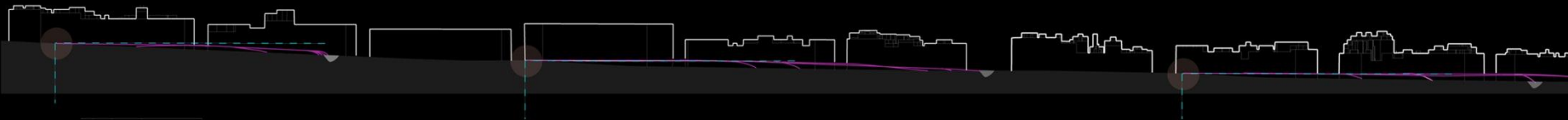
this is a possible workshop space for cultivation due to the left over water from the system. It is here that the general public and municipality can gain information from the plugged in .sensors regarding water and its quality insitue tutorial workshops would be provided to teach the public how to be self-sufficient in the city

Hydroponicsystem - phase 2

a section of the structural geotextile hydroponic system will be closed as a glasshouse to improve gemination .process to cultivate botany

Hydroponic system - phase 2

This hydroponic system will also act ad a visual ..and acoustic barrier against cars



The data pool will also start to grow a surrounding ring of greenery in attracting more flora and fauna

the build up of systems and their remaining water will eventually lead to this point which would allow the municipality to feed the park

Arc de Triomf

Hydroponic system - phase 2

This system can act as public space.

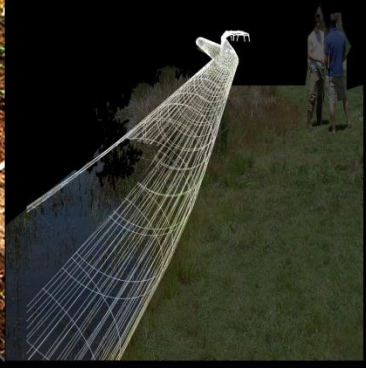
HYDROROPONIC SYSTEM



IRRIGATION SYSTEM



WETLAND WITH GEOTEXTILE STRUCTURE



ACOUSTIC/ POLLUTION PROTECTION





THE GREY WATER OUTPUT HAS A DIRECT EFFECT ON THE LIFE OUTSIDE. THIS ANALOGUE METHOD OF MAPPING WILL ALLOW RESIDENTS HOW HEALTHY THEY ARE.





Vision 2060: Sant Joan Water system has now gone into a regenerative state. Residents and commercial buildings are all plugged in and have all agreed to live a less pollutant life style with the help of governmental incentives to promote eco-friendly products. Rainwater is collected from a bottom up at top down approach from the houses and streets. The Grey water is at an all time high vaule of 100% . The system has also generated up hill and down hill withh san Joan acting as the main Branching system; creating a vast amount of water which is being shared throughout the city. The city has increased in Green urban value of 12% to 60% .A new continooes ecosystem of flora and fauna now exists linking the mountains to the sea