



SUPERBLOCK BARCELONA

Towards the city we want

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BARCELONA
Municipality of Barcelona
1.611.822 inhab - 100 km²
16.150 inhab./km²

the consequences of the model

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HIGH LEVEL POLLUTION

Pollution for PM2,5

659 premature deaths

Mobility of vehicles with fuel

50% pollution



ACOUSTIC POLLUTION

53,87% population over

60-70 dBA

(limit WHO, 65 dBA)



GHG Green House Gas Effect – CLIMATE CHANGE

Increase until 4°C



TRAFFIC ACCIDENTS

11,000 injured traffic accidents

31 deaths more incidence in motorbikes and pedestrians



INSUFFICIENT GREEN AREAS

WHO 10-15m²/h
Barcelona 6,6 m²/h.

Eixample 1,85 m²/h . Gracia 3,15 m²/h



THIS IS NOT A DRILL

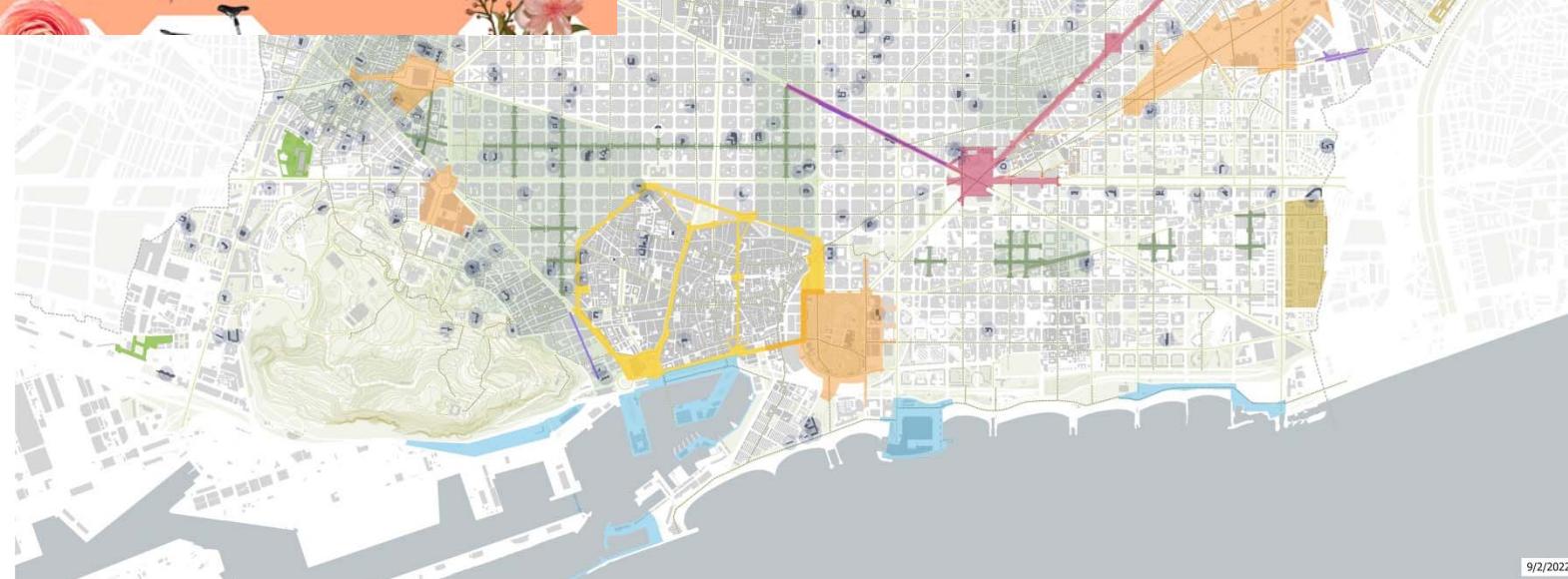
CLIMATE
EMERGENCY
DECLARATION

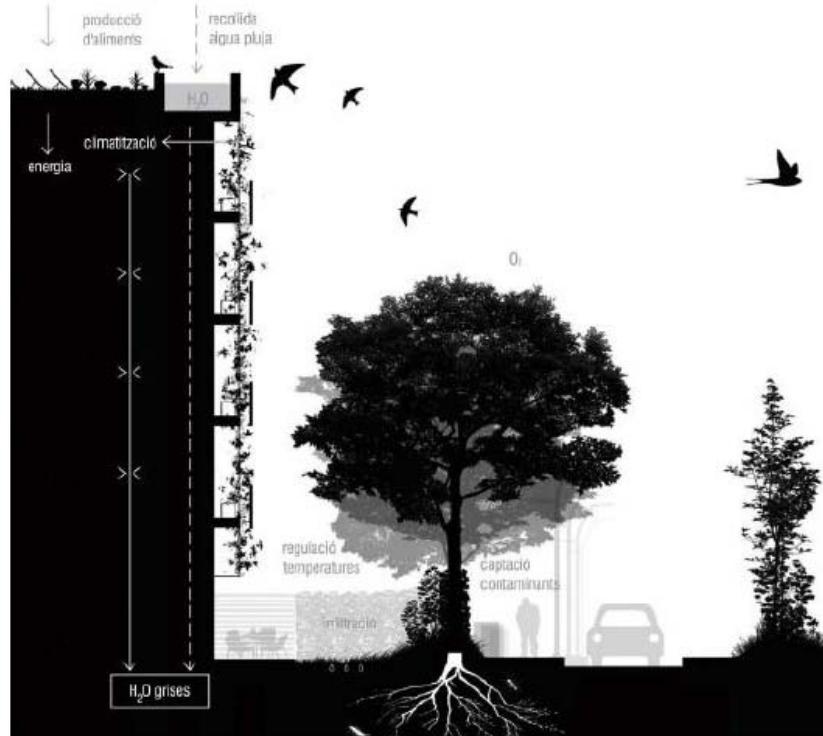
15TH JANUARY, 2020
BARCELONA

Ajuntament de
Barcelona



Superblocks as a transformation strategy all over the city

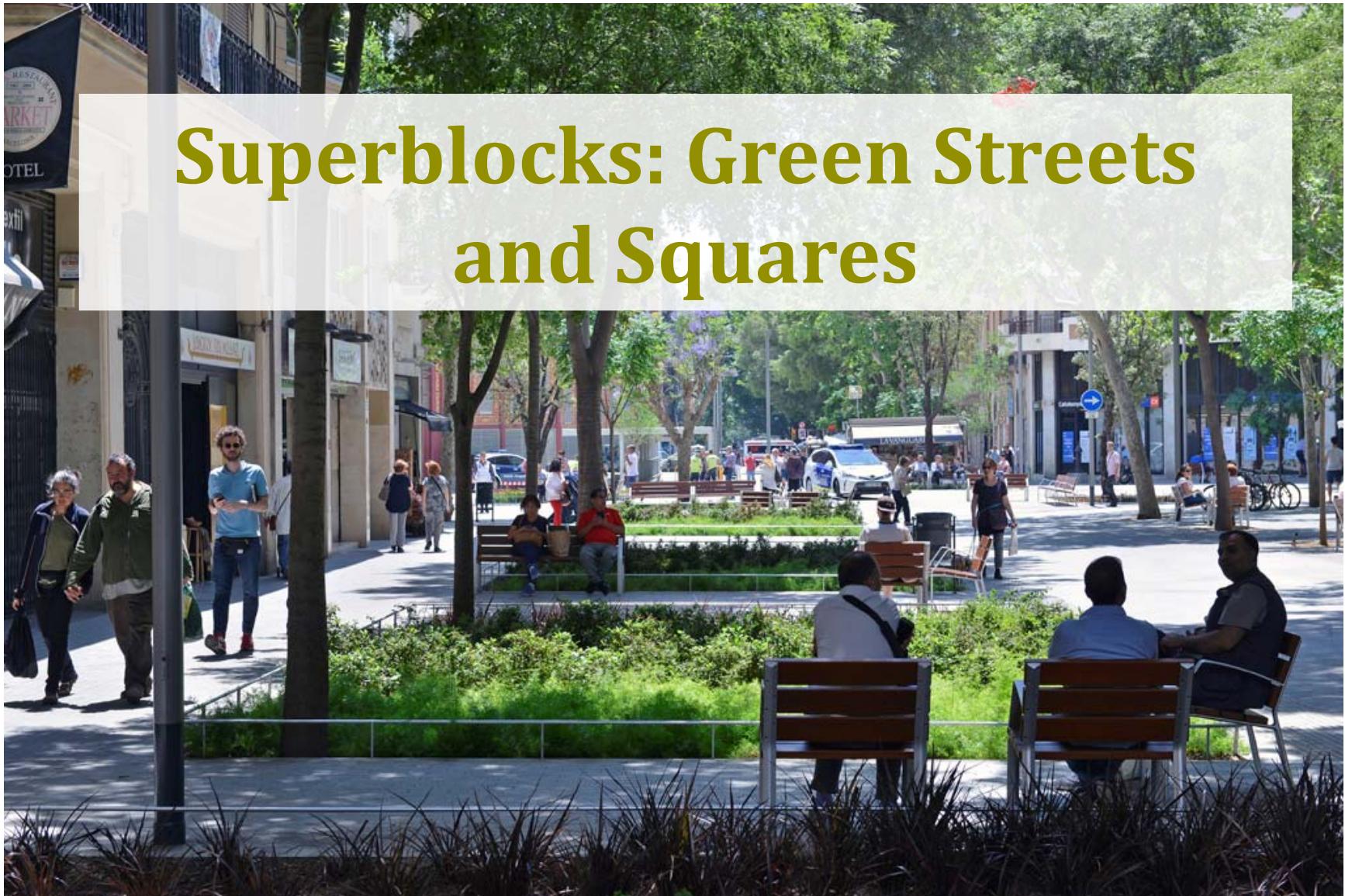




Garanteix la presència de natura a la ciutat – Preserva el patrimoni natural – Conserva els sòls – Millora l'habitabilitat de la ciutat – Produceix matèria orgànica i aliments – Disminueix la contaminació atmosfèrica – Segresta i emmagatzema carboni – Crea paisatge - Atenua la contaminació acústica – Regula el cicle de l'aigua – Aporta humitat - Modera les temperatures -

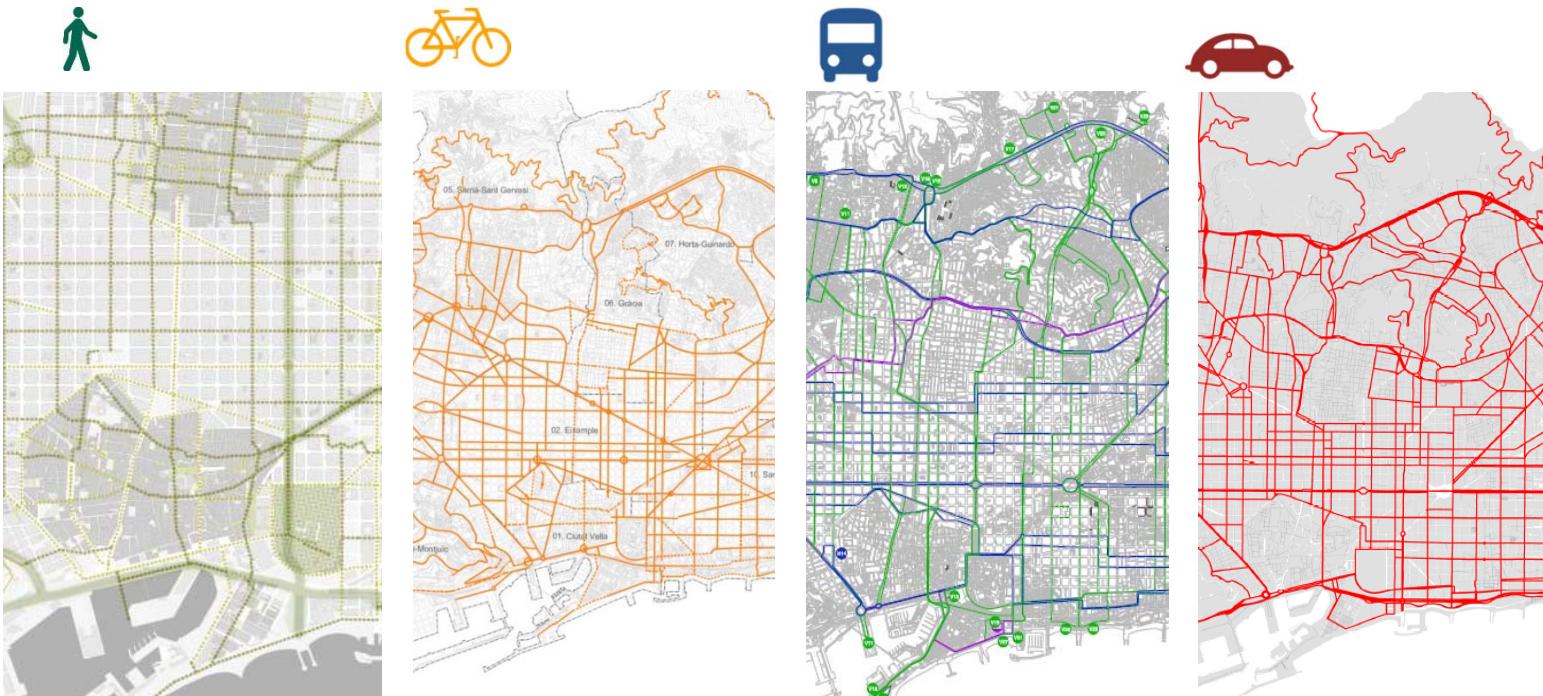
Genera plusvalua - Genera atractiu turístic – Crea entorns vitals i sensorials – Crea entorns per les relacions socials – Genera activitat econòmica – Estalvia en climatització – Esponja i pacifica la ciutat – Genera benestar físic i psíquic – Propicia el contacte i la interacció amb la natura – Facilita l'oci, l'esbarjo i l'activitat física – Forneix d'oportunitats per a l'activitat cultural, l'educació i la recerca

Superblocks: Green Streets and Squares



SUPERBLOCKS

Different mode of mobility networks





SUPERBLOCKS

Vision of green streets: 183,6km

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Green streets create a new environmental infrastructure,
where pedestrians and areas to relax in take priority.



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Implementation in l'Eixample central area

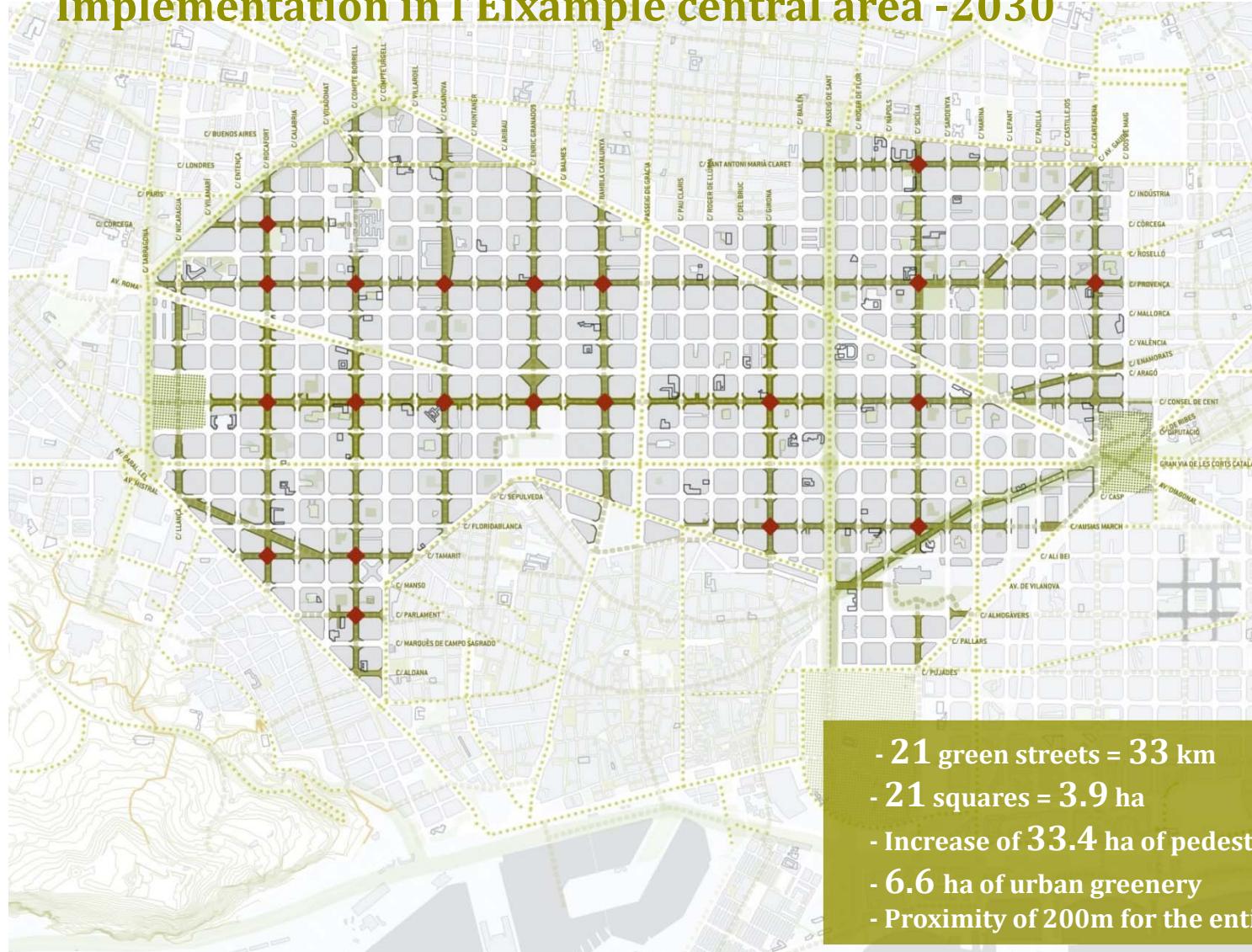




SUPERBLOCKS
BARCELONA

SUPERBLOCKS

Implementation in l'Eixample central area -2030



Green streets and squares

- Green street with pedestrian priority
- Green street without pedestrian priority
- ◆ Octagonal squares
- Urban green corridors
- Green spaces

- 21 green streets = 33 km
- 21 squares = 3.9 ha
- Increase of 33.4 ha of pedestrian space
- 6.6 ha of urban greenery
- Proximity of 200m for the entire local population.

02 MODEL D'EIX VERD

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A MODEL FOR THE GREEN STREETS

PEOPLE IN THE CENTER

GREEN INFRASTRUCTURE

LOCAL COMMERCE REACTIVATION



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PEOPLE IN THE CENTER

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New Model for a green street

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A STREET FOR PEDESTRIANS
ONE LEVEL STREET

- We generate a one level street for pedestrians.
- Pedestrians have absolute priority in all directions.
- Vehicles can use the street only in low-speed (10 km/h)

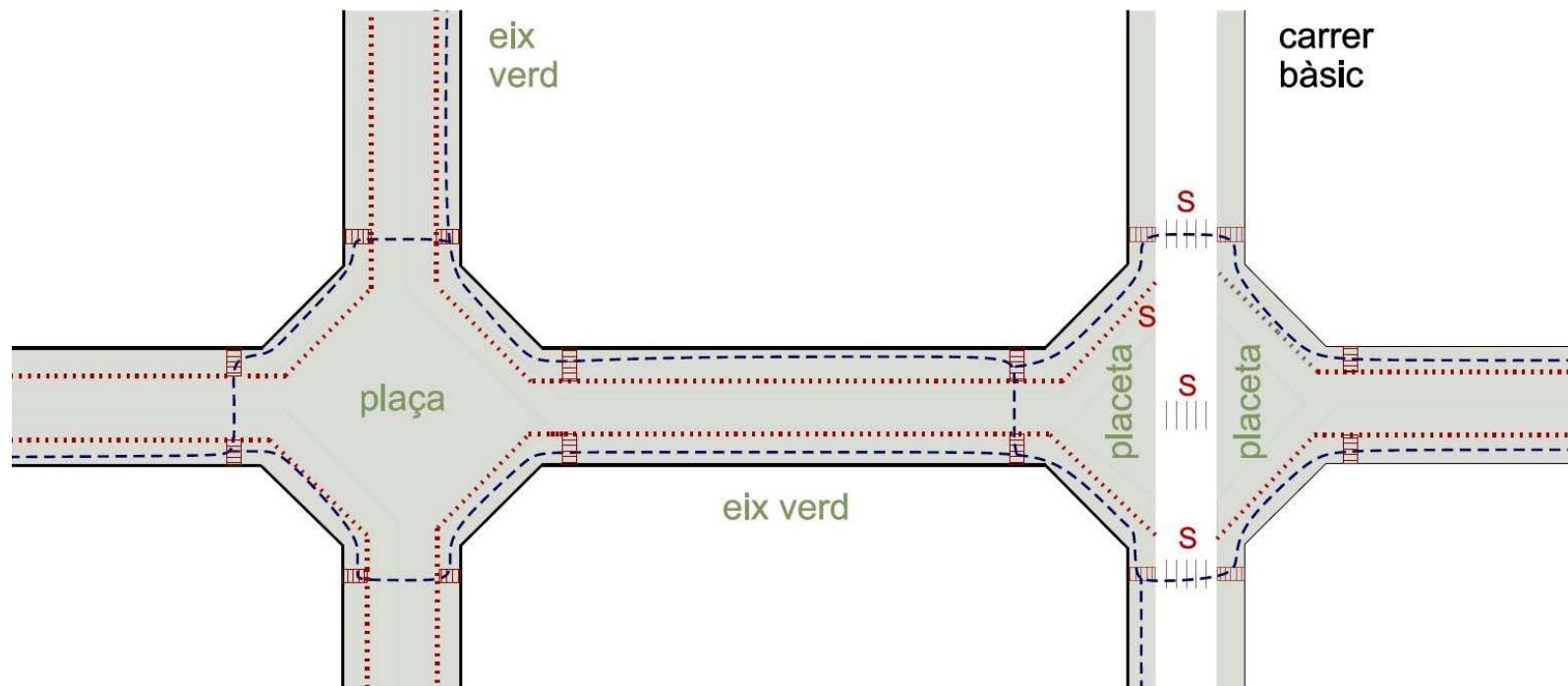


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New Model for a green street

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ACCESSIBILITY TACTILE PAVEMENTS AND ACCESSIBLE PATHS



- Paviment tàctil direccional
- Paviment tàctil d'advertència
- S semàfor
- Pas accessible

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New Model for a green street

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LIGHTENING
MORE COMFORTABLE FOR HUMAN SCALE

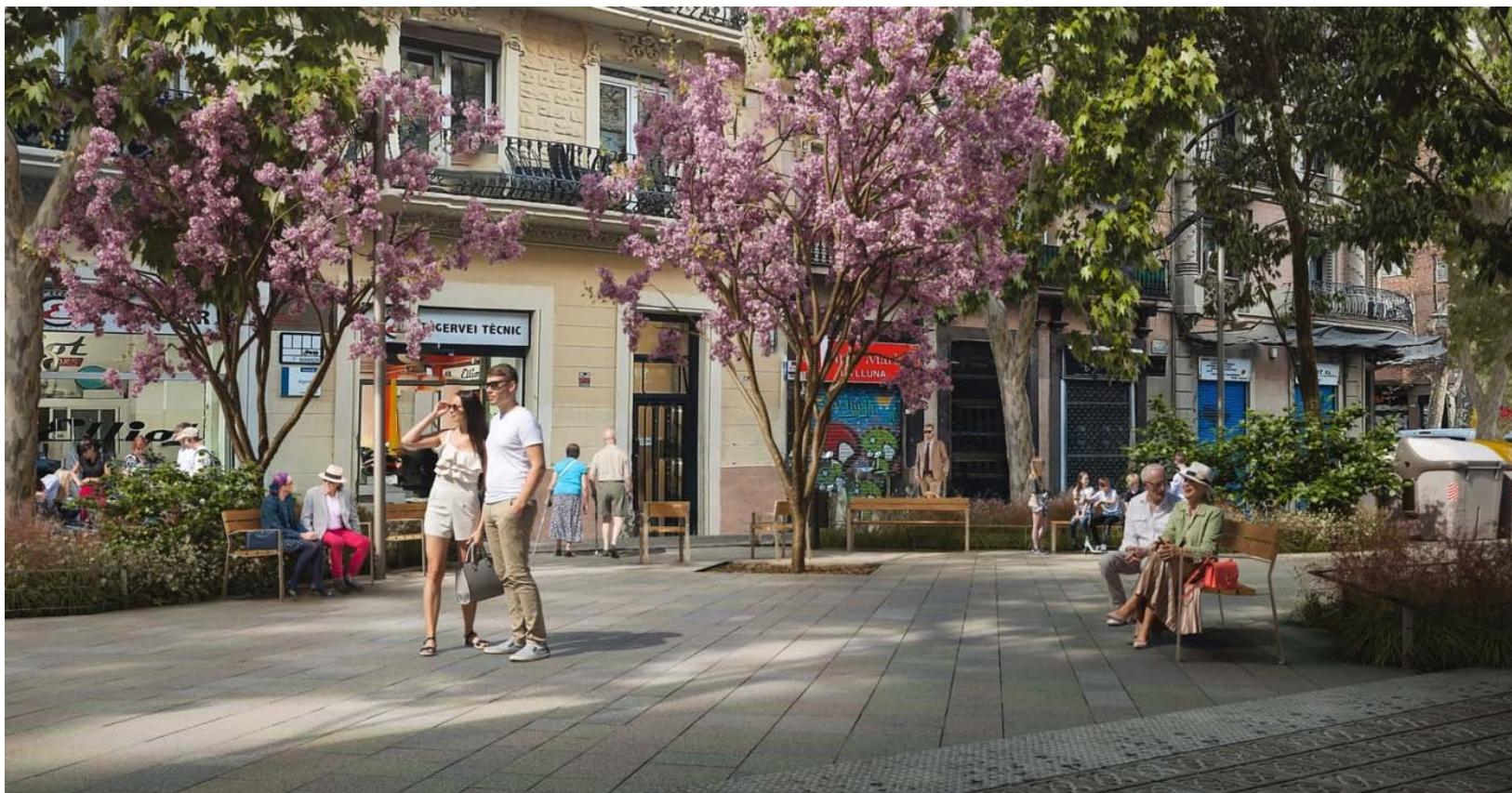


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New Model for a green street

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FURNITURE
THE WHOLE STREET IS A STAY AREA



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KIDS LEISURE





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GREEN INFRASTRUCTURE

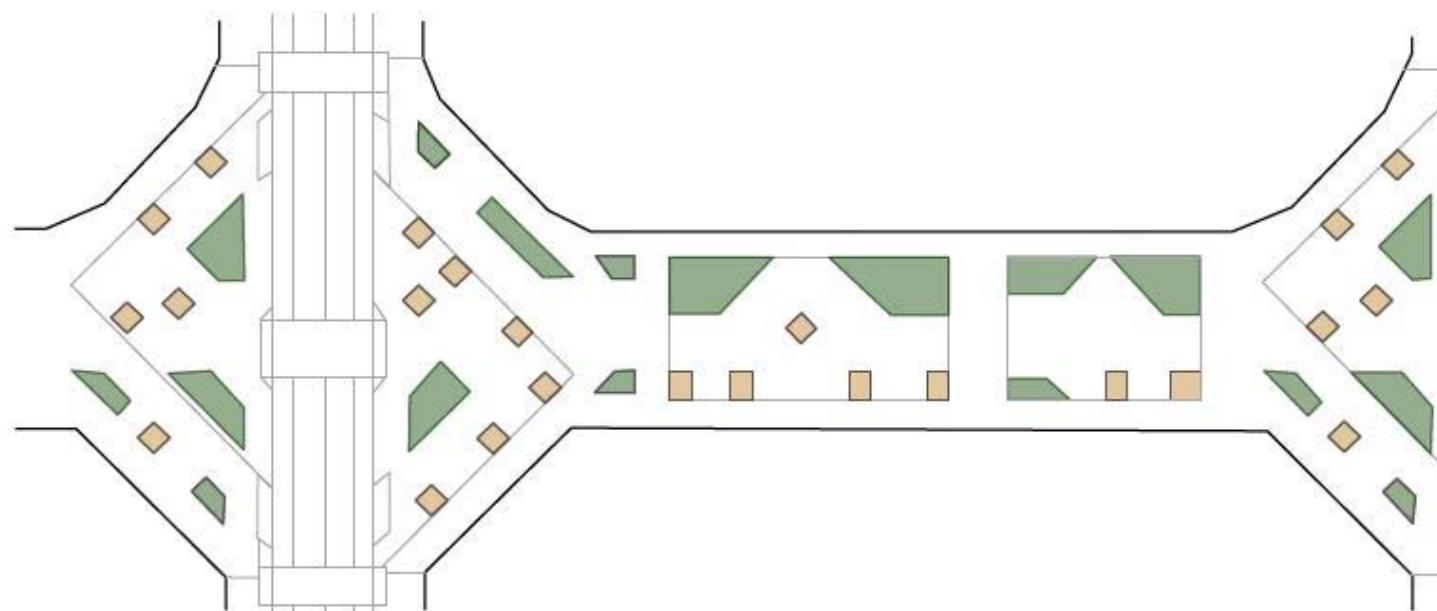
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New Model for a green street

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GREEN IN THE STREET PLANTATION AREAS

- Around 12% of the street is a drainable planted area
- More trees and more diverse (438 new trees in the first 4 streets and 4 squares)

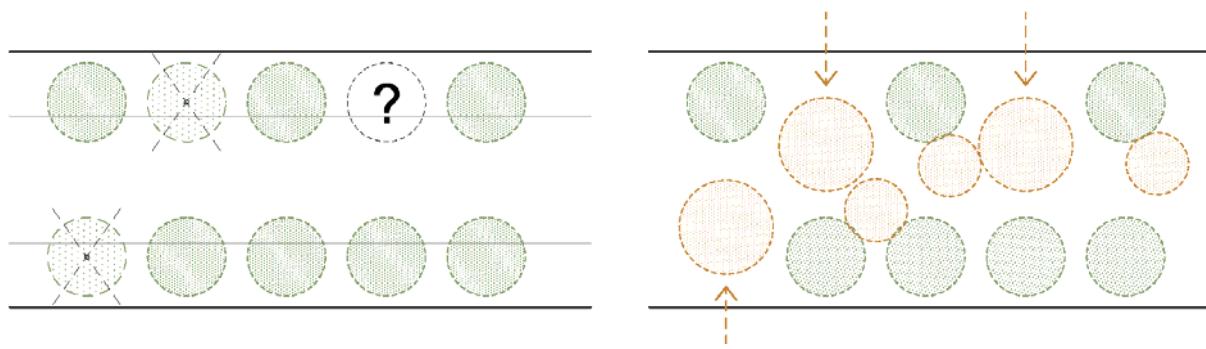
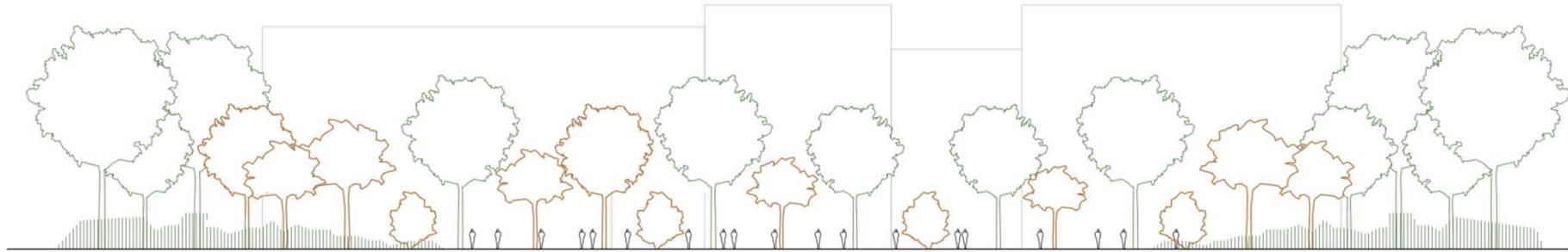


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GREEN IN THE STREET
PLANTATION AREAS



Carrer tipus Eixample actual
ANÀLISIS DEL PATRIMONI

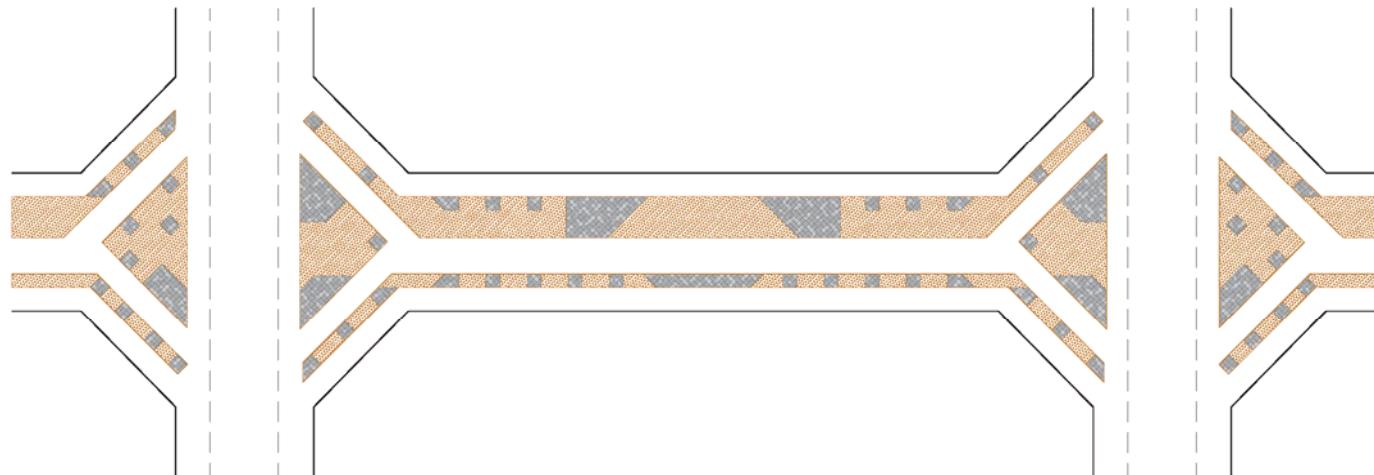
Eix Verd
**NOVA PLANTACIÓ CENTRADA
I A PORTELL**

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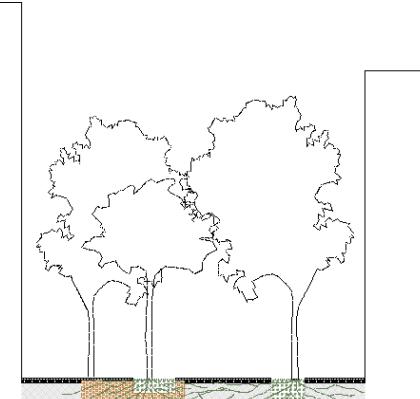
RICH SOIL
VEGETAL SOIL AND STRUCTURAL SOIL



- 2 nous àmbits de subsòl vegetal, amb més espai per al desenvolupament de les arrels.
Per tant, més riquesa natural i biodiversitat.

Subsòl:

- | | |
|---|---|
| ■ | 58% sòl existent a mantenir – 60.510 m ² |
| ■ | 30% sòl estructural – 31.100 m ² |
| ■ | 12% terra vegetal – 12.520 m ² |

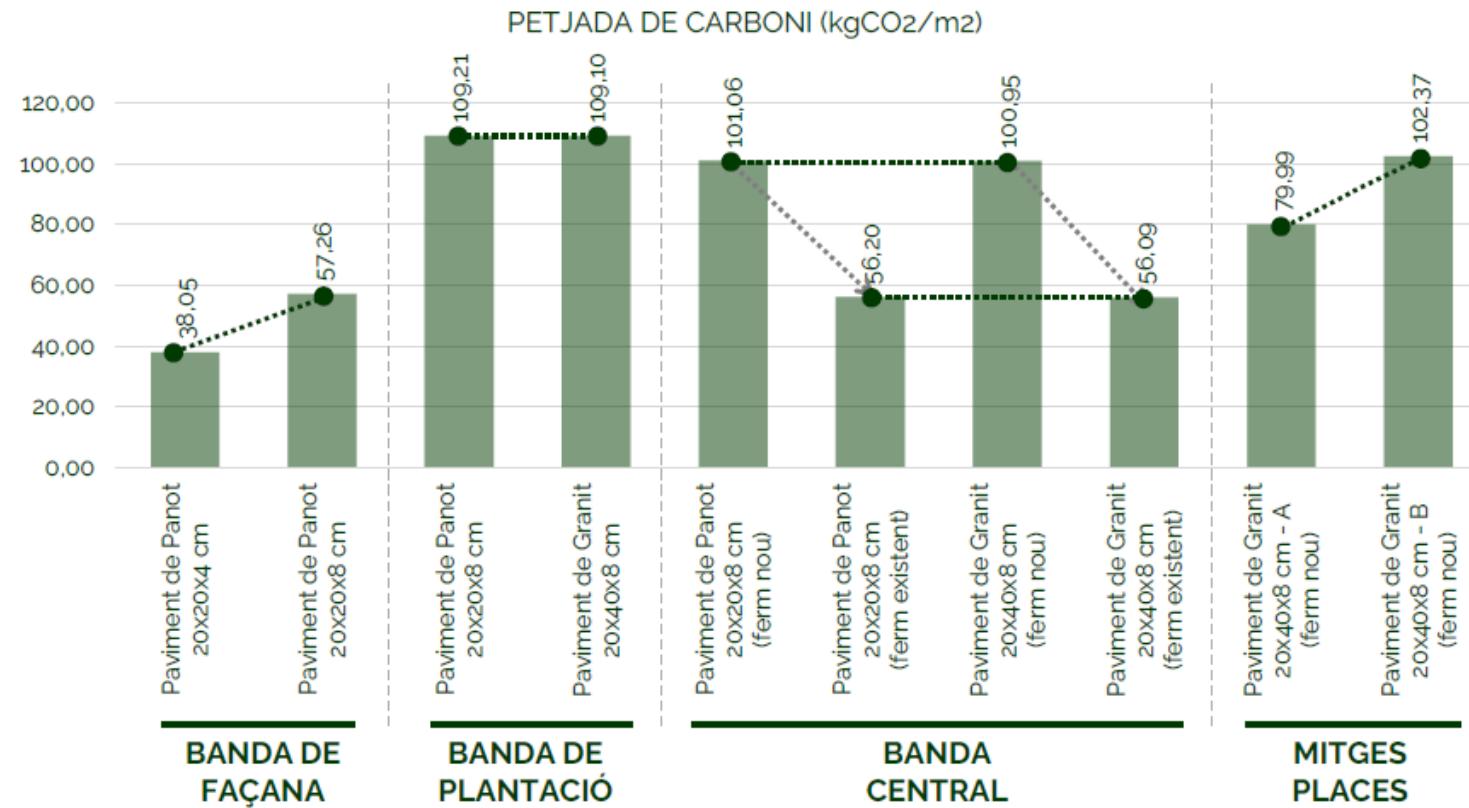


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ECOLOGICAL FOOTPRINT
REDUCE DECONSTRUCTION AS A STRATEGY

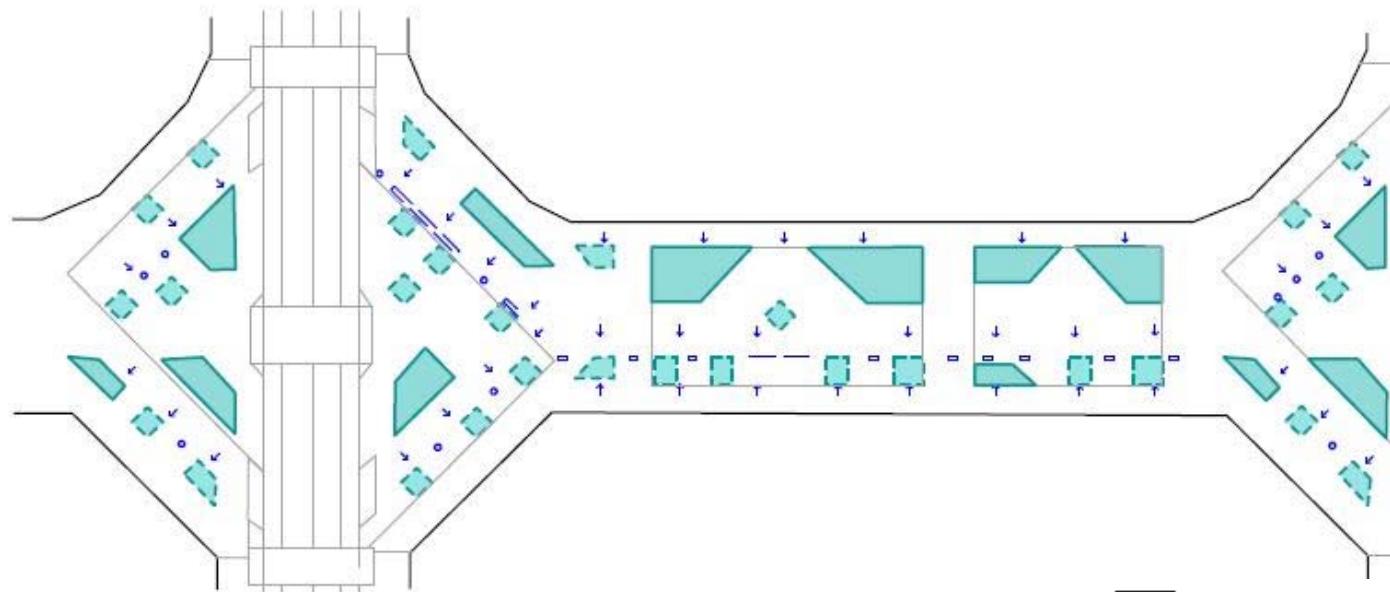


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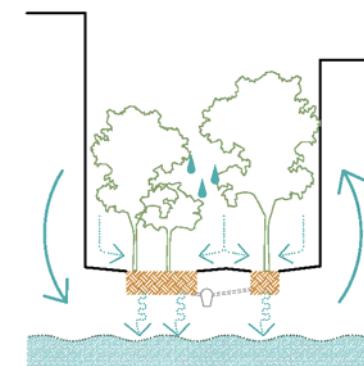
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WATER CYCLE
RECOLLIDA D'AIGÜES



- Superfície permeable coincident amb àrea plantada: 12%
- Reutilització de l'aigua pluvial. L'aigua es recollirà en les franges vegetals, afavorint la seva infiltració i retenció.





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LOCAL COMMERCE REACTIVATION

SUPERBLOCKS

New Model for a green street

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COMMERCE
GOOD CONDITIONS



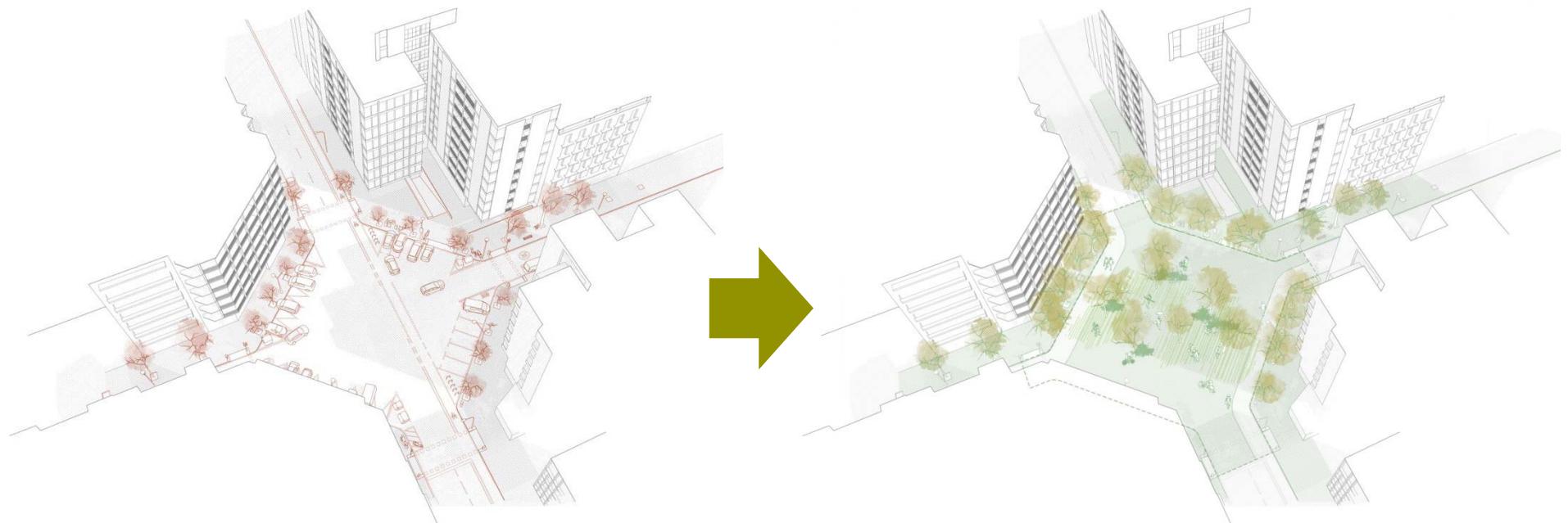






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From JUNCTION to SQUARE



07 PLAÇA CONSELL DE CENT / ROCAFORT



07 PLAÇA CONSELL DE CENT / ROCAFORT



SUPERBLOCKS

1rts PHASE IN PROGRESS

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4,85Km OF GREEN STREET OPENING BY MAY 2023





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