

Green and Biodiversity Plan 2011-2020

Nature Plan 2021-2030



29th of April, 2026
Joan Bernat Martín Corral
Gemma Torres Sallan
Department of Biodiversity
Municipal Institute of Parks and Gardens

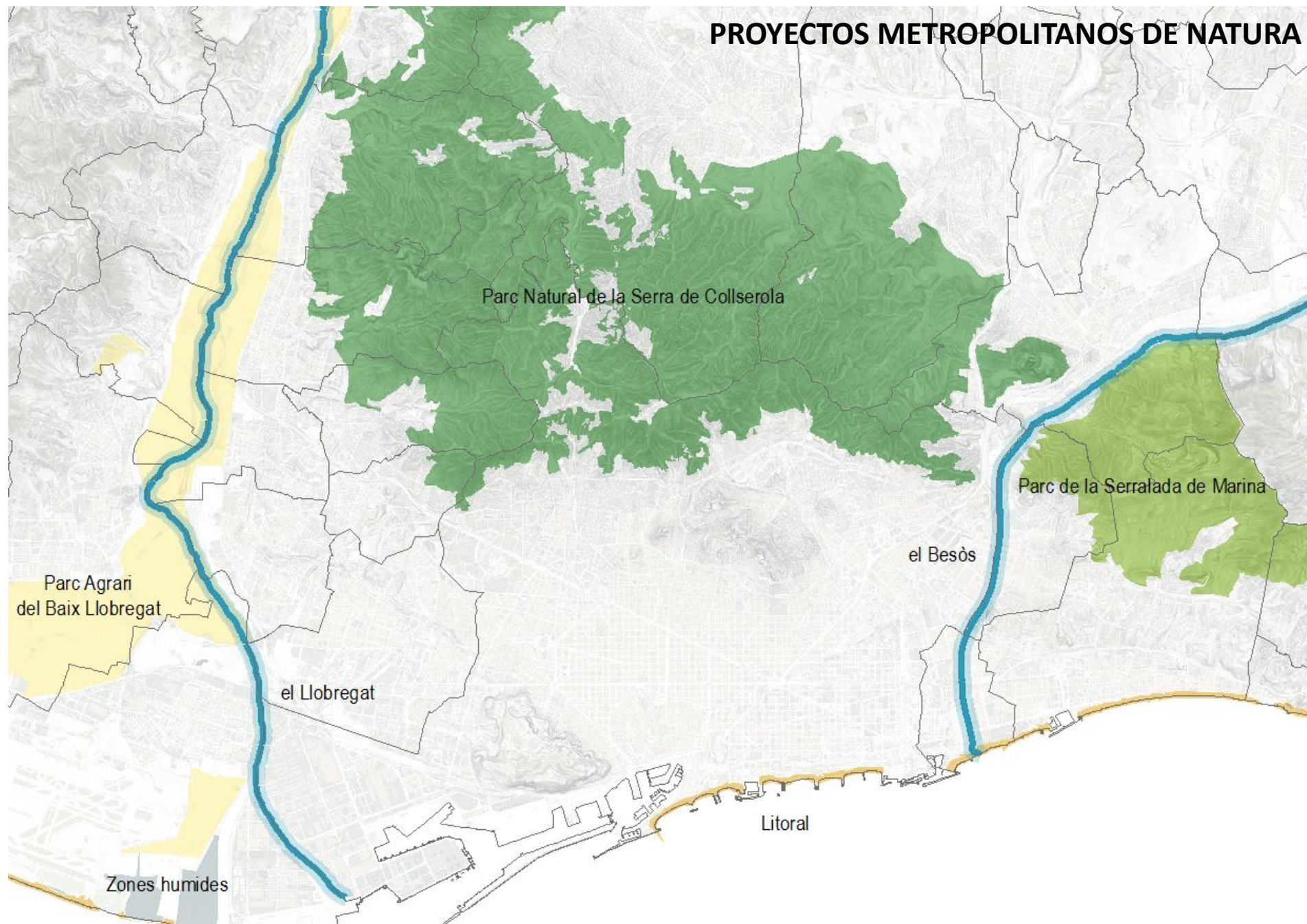


índex

1. Introduction
2. Why promote nature and preserve biodiversity?
3. How can we intervene to promote nature and biodiversity?
4. How did we do it?
5. From Plan to Action
6. Participative processes for space creation
7. Gender equality plan in Parks and Gardens



PROYECTOS METROPOLITANOS DE NATURA



Why promote nature and preserve biodiversity?

Preservation of **protected species** and its **nidification sites**: compulsory by law:

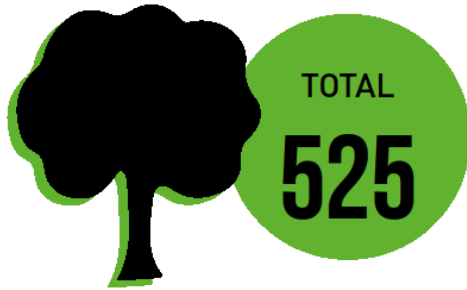
- Legislative decree 2/2008 Animal protection law
- Decree 172/2022, Catalogue of wild autoctonous endangered fauna and protection measures
- Law 42/2007 of natural heritage and biodiversity
- Article 334 of Penal Code: from sanction to 2 years in prison



LA FLORA A BARCELONA EN XIFRES

Espècies presents a la trama urbana

ARBRAT



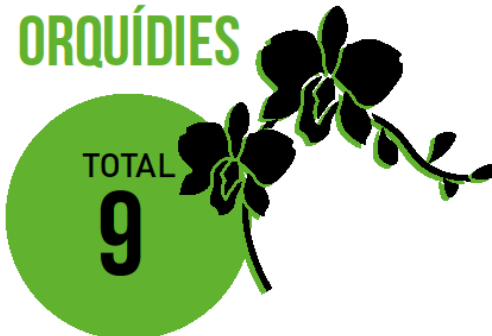
FLORA ORNAMENTAL DE PARCS I JARDINS



HERBES URBANES



ORQUÍDIES



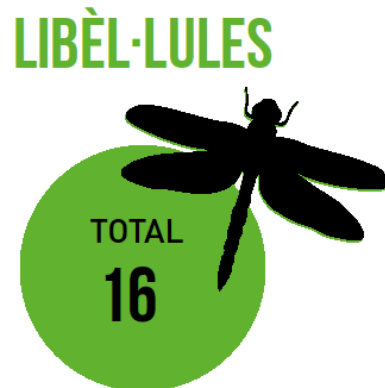
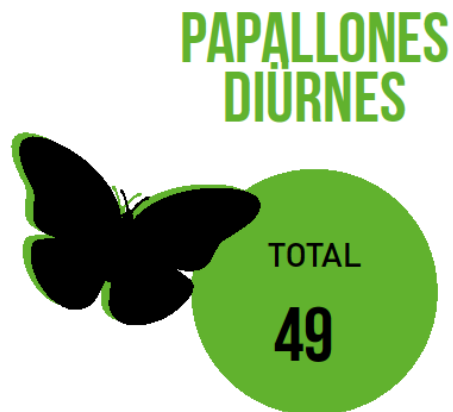
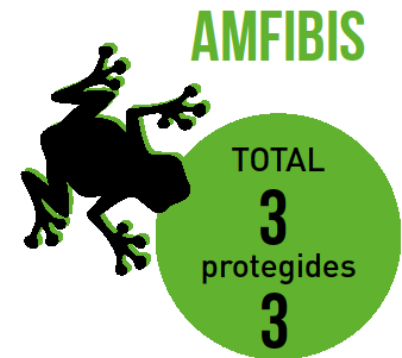
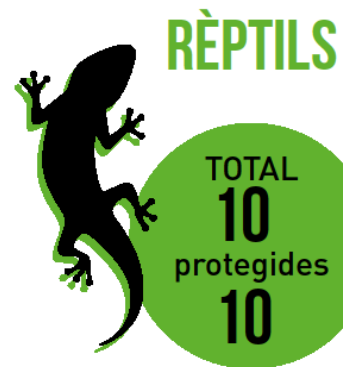
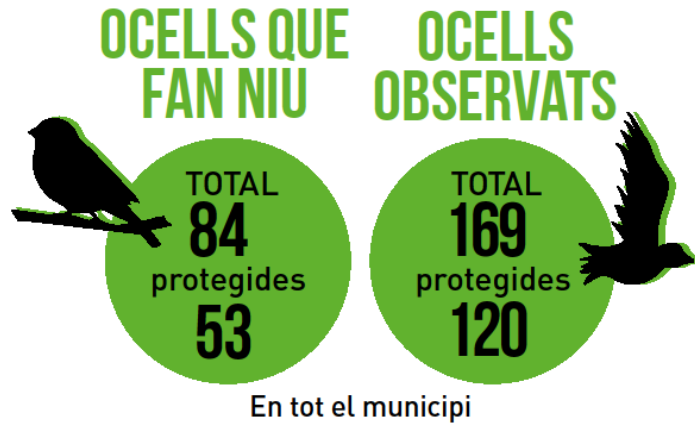
LÍQUENS



LA FAUNA A BARCELONA EN XIFRES

Espècies detectades a la trama urbana

MAMÍFERS Ratpenats 9
Altres mamífers 10







1. Biodiversity in the city of Barcelona










English

SHOW ON MAP

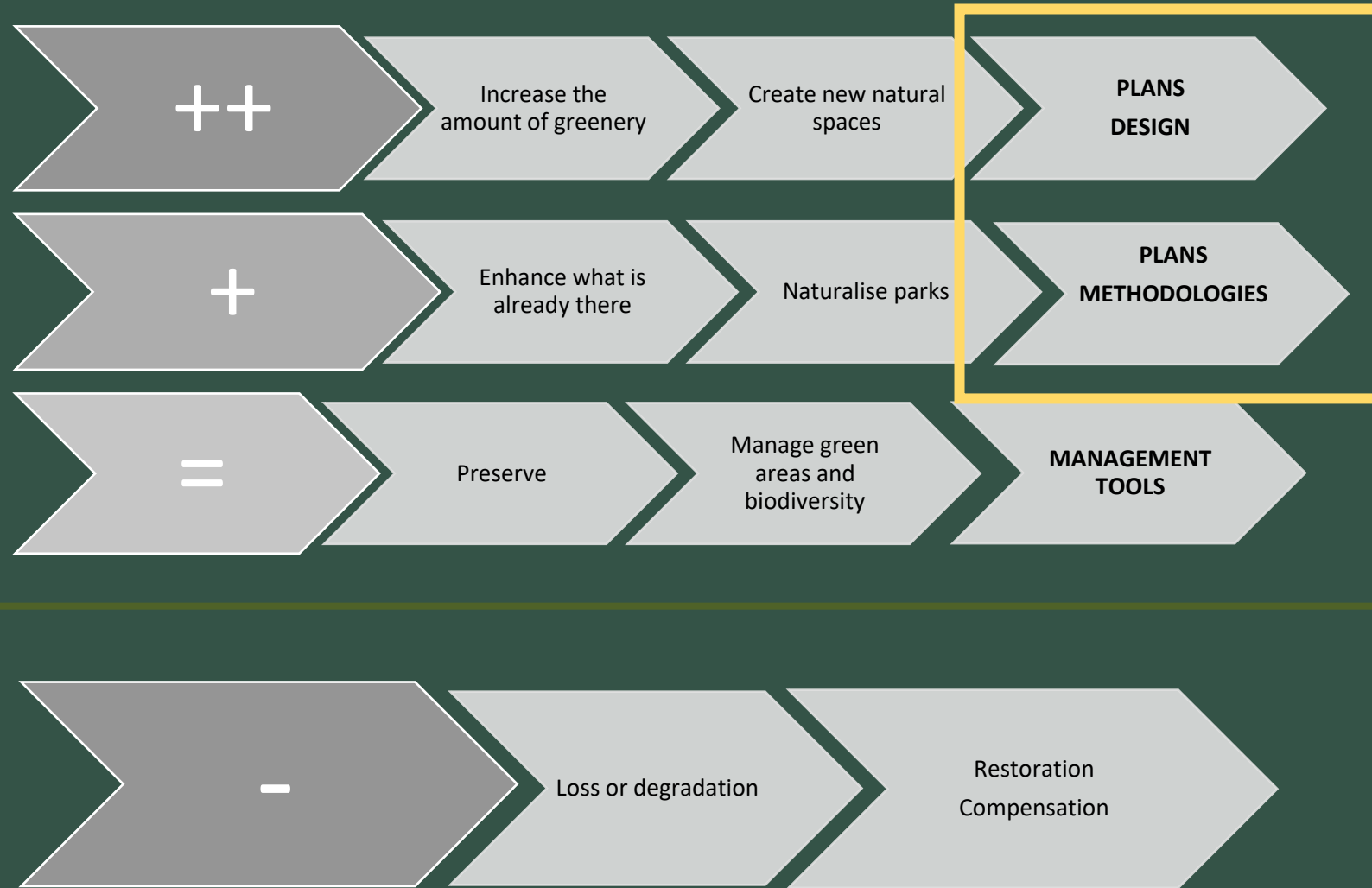
- Plants in green areas
- Trees
- Birds in the city**
85 identified species
- Butterflies
- Other vertebrates
- Naturalised ponds
- Plant communities
- Species at address

SELECTED ELEMENTS INFO
SANT GERVASI - LA BONANOVA

-  *Periparus ater*
-  Common Blackbird
Turdus merula
-  Common Blue tit
Cyanistes caeruleus
-  Common Chaffinch
Fringilla coelebs
-  Common Chiffchaff
Phylloscopus collybita
-  Common Firecrest
Regulus ignicapilla
-  Common Hoopoe



**How can we intervene to
promote nature and
biodiversity?**





How did we do it?

Green and Biodiversity Plan 2013-2020

Nature plan 2021-2030



Green and Biodiversity Plan 2013-2020

Environment department

Xxx department

BIODIVERSITY PLAN

GREEN PLAN

Own diagnosis

Own diagnosis

Own participatory process

Own participatory process

Ajuntament de Barcelona



Parcs i Jardins

80 participants
2 sessions
Year 2009

Environmental and social entities	Experts (Univeristy and research centers)
Barcelona city council and municipal councils	
Other administrations Barcelona provincial council, Catalan government, Metropolitan Area of Barcelona	Economic sector Business, agrupations, professional schools, freelancers

220 participants
3 sessions
Year 2010

Participatory process

SWOT Analysis

Shared diagnosis

Risks and challenges

Vision / Objectives / Working lines / Actions

Internal process

Green and Biodiversity Plan

2013-2020

Values



Environmental

- nature
- diversity
- complexity
- connectivity

Sociocultural

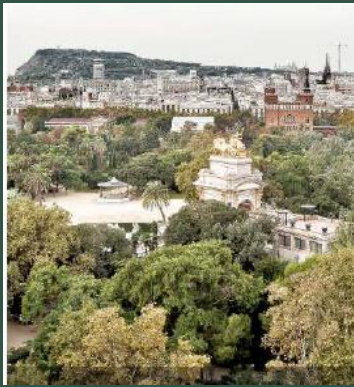
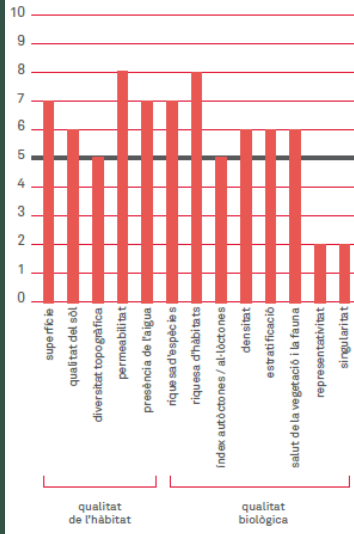
- health
- beauty
- culture
- welfare
- relationships
- landscape



garden

2020

Làm. 11.
Valoració dels atributs i aportacions més destacades. Parc



confort climàtic

qualitat de l'aire

qualitat cromàtica

qualitat visual

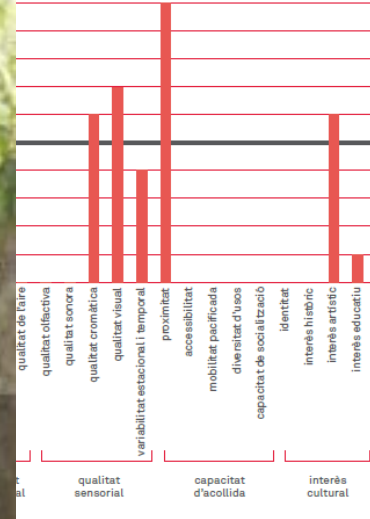
variabilitat estacional i temporal

proximitat

accessibilitat

identitat

interès educatiu



Other aspects of diagnosis:

- **Dimension** of green spaces
- **Green deficit:** ratio green/habitant in different districts
- **Environmental quality:** CO₂, air quality, acoustic quality
- **Biodiversity data**
- **Invasive species**

Environment department

Xxx department

BIODIVERSITY PLAN

GREEN PLAN

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Ajuntament de
Barcelona



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Internal process

Corredor Collserola - Ciutadella



Shared vision and objectives emphasized on:

- Connectivity
- Renaturalisation

To be accomplished through two instruments:

- Green corridors
- Opportunity spaces



10 strategic lines, 68 actions:

1. **Preserve** natural heritage of the city
2. **Plan** urban green to promote **connectivity** and equitable Distribution
3. Design the city and green spaces considering the **environmental services** and integrating criteria to promote **biodiversity**
4. Create new **spaces for nature** and increase the presence of green and biodiversity
5. Manage green spaces with efficiency and **sustainability** criteria and promoting biodiversity
6. Preserve and valorise cultural heritage, specially in **historic gardens**
7. **Increase knowledge** regarding management and preservation of green and biodiversity
8. **Expand knowledge** on green, biodiversity and its values. Promote training and courses on the topic.
9. Promote green spaces as spaces for **health** and **leisure**. Promote **citizen participation** green spaces creation and biodiversity preservation
10. Strengthen municipal **leadership**, **networking** and the **commitment** for the preservation of green and biodiversity

Barcelona Nature Plan

2021-2030

Parcs i Jardins

Barcelona Nature Plan 2021-2030

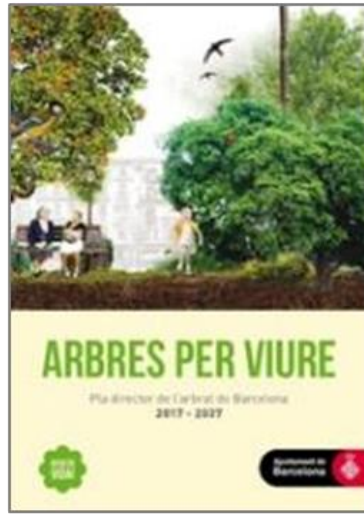
Context:

Environmental crisis
2020: more serious
and better
acknowledged.

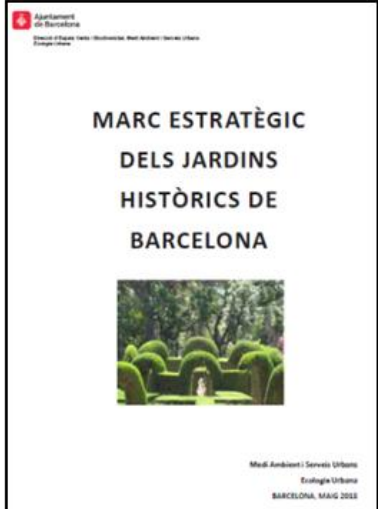
**Strong
political
commitment**

2020

<http://hdl.handle.net/11703/85101>



ONGOING STRATEGIES BEFORE NATURE PLAN





ns

Government
programm
promoting
infrastructure
and other

More know
Results of
and monit

Experienc
from the in
of the prev

Manifesto
Greenery
and Biodiv
Work Grou
More Sust
Barcelona
Citizen Co
for Sustain
(Presentat
05/05/20

Decidim Barcelona | Barcelona X Pla de Barris del Carmel - decidi X

www.decidim.barcelona/processes/pdbcarmel



Quant a aquest procés

Implica't en els processos oberts pel Pla de Barris del Carmel i fes que les teves idees millorin el dia a dia del teu barri.

El Pla de Barris del Carmel és un programa que busca reduir les desigualtats i generar noves oportunitats al barri. **Aquest programa municipal promou la participació ciutadana i el treball comunitari en la seva definició, desenvolupament i execució.**

- Un dels principals espais de participació són les Comissions de Seguiment, formades per veïnat i entitats, que es reuneixen periòdicament per vetllar pel bon

Trobades →

Comissió de Seguiment del Pla de Barris del Carmel →

Inscriu-te a la passejada exploratòria de diagnosi dels jardins de Juan Ponce →

Enquesta de percepció dels jardins de Juan Ponce →

Line 1:
More greenery and biodiversity.

Line 2:
Conserving and improving greenery and biodiversity.

Line 3:
With and for city residents.

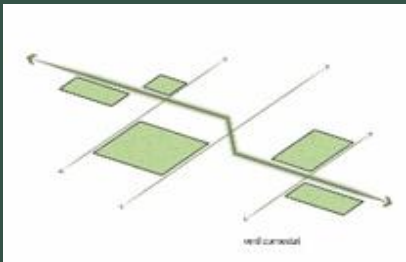
Area 1:
Knowledge.

Area 2:
Governance.



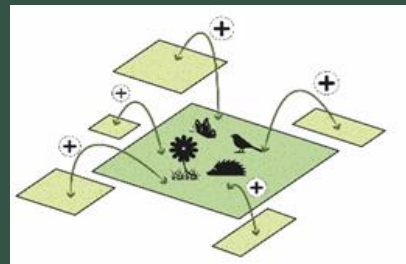
A fair greenery

Quality green spaces accessible to all city residents



A connected greenery

Network of true green infrastructure that is complex and connected, designed by reconnecting the city's various green spaces



A greenery reinforced in biodiversity nodes

Preserve and improve the spaces that contribute greater diversity and complexity to the urban green infrastructure to enrich the entire system.



A metropolitan greenery

Interconnected green infrastructure from within the city with metropolitan-scale structural elements



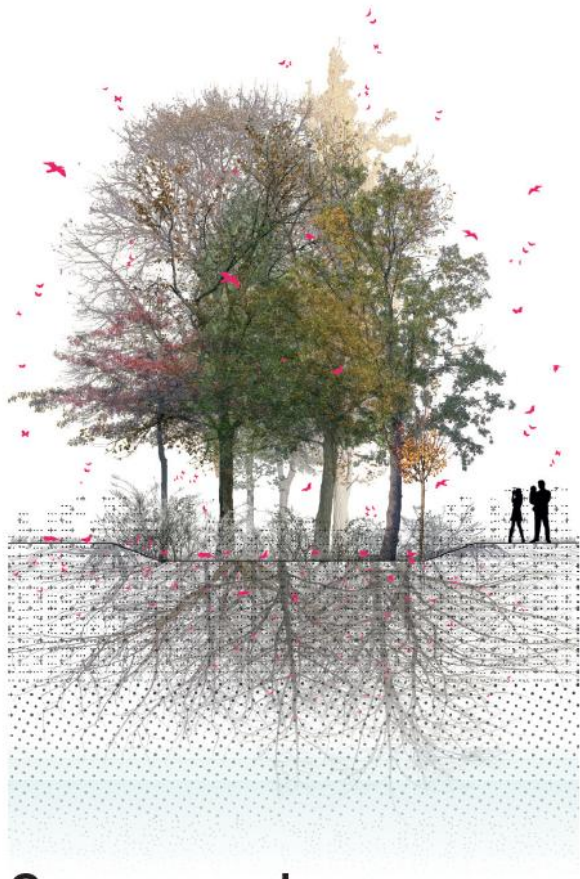
4. From plan to action

Some examples

Line 1. More greenery and biodiversity

A photograph of a park worker in a green uniform and cap, using a yellow hose to spray water onto a dense row of green bushes. The worker is standing on a curved, light-brown gravel path. In the foreground, a yellow wheelbarrow with green handles is partially visible. The background is filled with various trees, including tall, thin ones and a large pine tree on the right. A concrete bench is visible in the lower foreground. The overall scene is a lush, green park environment.

Some examples



Greenery and Biodiversity Charter



- Reference guide
- Common reference framework for planners and technical areas of the city council
- How to design the city and its green spaces while taking into account environmental services and adopting pro-biodiversity and sustainability criteria

Plant palette for parks and gardens in Barcelona

Criteria for the selection of plant species in green space design


















PLA CLIMA



Ajuntament de Barcelona

Parcs i Jardins



PLANT SPECIES SCIENTIFIC NAME	STRUCTURAL CHARACTERISTICS			
	TYPE	SIZE (cm)	BLOOM	LEAF
<i>Abelia x grandiflora</i>		100/150 ↑ 150/175 Ø	 Sp/S/A	
<i>Abutilon x hybridum</i>		250/300 ↑ 150/200 Ø	 S/A	
<i>Achillea millefolium</i>		50/70 ↑ 30/40 Ø	 Sp/S	
<i>Agapanthus africanus</i>		40/60 ↑ 40/60 Ø	 Sp/S	
<i>Allium schoenoprasum</i>		30/40 ↑ 20/30 Ø	 Sp/S	



Jardí de pluja

Aquests jardins de gramínies, plantes vivaces i arbustives que floreixen en tons freds **aporten valor ornamental i ecològic i afavoreixen la biodiversitat**

QUINES ESPÈCIES HI PODEM TROBAR?



Hi podem veure gramínies, plantes vivaces i arbustives que floreixen en tons freds. Hi ha, com la **campanera argentada** (*Conoclinium elatum*), l'**estipa** (Elyna tenax), la **margarida** (*Leucanthemum vulgare*), la **capçana blava** (*Conoclinium elatum*). Aquestes plantes atrauen una gran diversitat d'insectes, com la **papallona atalanta** (*Vanessa atalanta*), la **siseta comuna** (*Phytomyza caerulea*), **abelles de la mat** (*Agrochloa*), i **mariposas de set puntes** (*Graphium agestis*). A més, els jardins d'aiguany permeten destacar la presència de **vicinades** (*Vicinidae*) com a insectes, una arca amb fons d'un color de suspensió.

COM FUNCIONA EL CICLE DE L'AIGUA?

Un jardí de pluja està dissenyat per aturar el cicle natural de l'aigua. El nivell de terra està lleugerament per sobre del nivell que trobarem a la vorera de la via pública i, gràcies al substrat drenant, mitjançant les capçanes de sota directament cap al terreny. A més, aquesta permetre desviar el sistema de sanejament connectat a la xarxa de sanejament per evitar que l'aigua subterrània en sigui contaminada.



ÀMBIT D'ACTUACIÓ: 4 EIXOS VERDS I 4 PLACES DE L'EIXAMPLE



“Cristòfol de Moura” Street



Before



After



Long green corridor 1.27 km
32.000 m2 of public space.
Traffic reduction



“Bolivia” Street

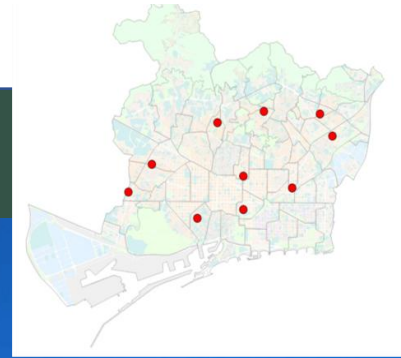


Before



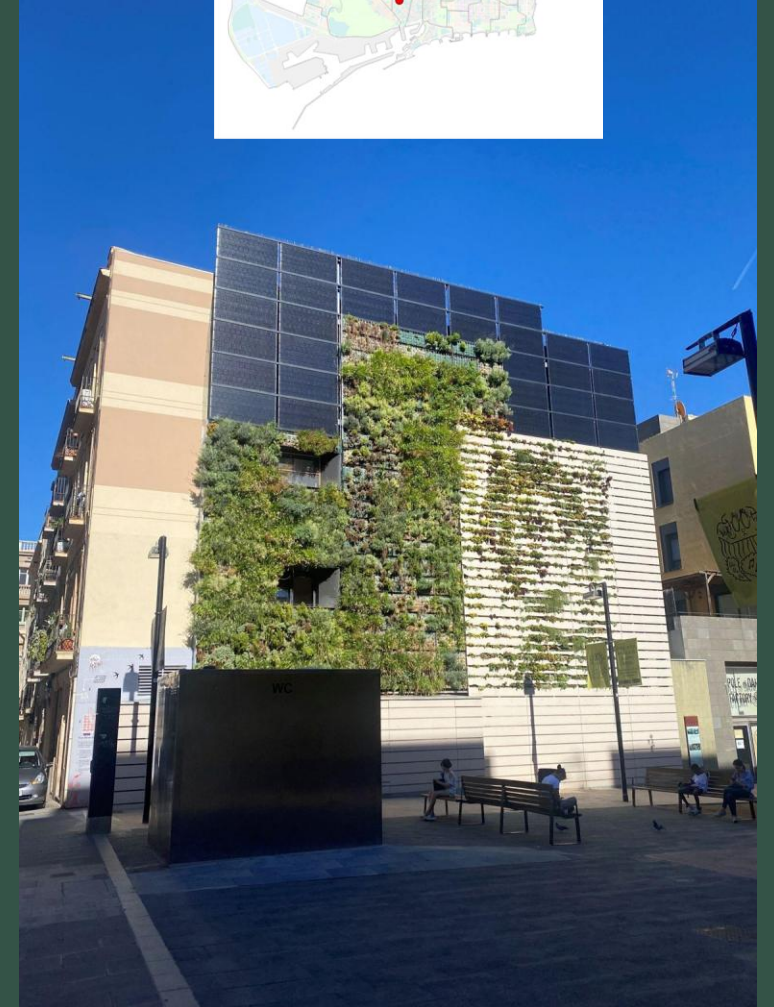
After





Blind walls transformation competition

International competition of ideas to remodel 10 permanent blind walls, spread across the city's 10 districts.



A monarch butterfly with orange and black wings is perched on a tall, purple flower spike. The background is a soft-focus green field with other similar flower spikes. The text is overlaid on the upper left portion of the image.

Line 2. Conserving and improving greenery and biodiversity

Some examples

- Areas of Natural Interest (ZIN and ZINAs)

- Meadows, grasslands

- Live flowerbeds

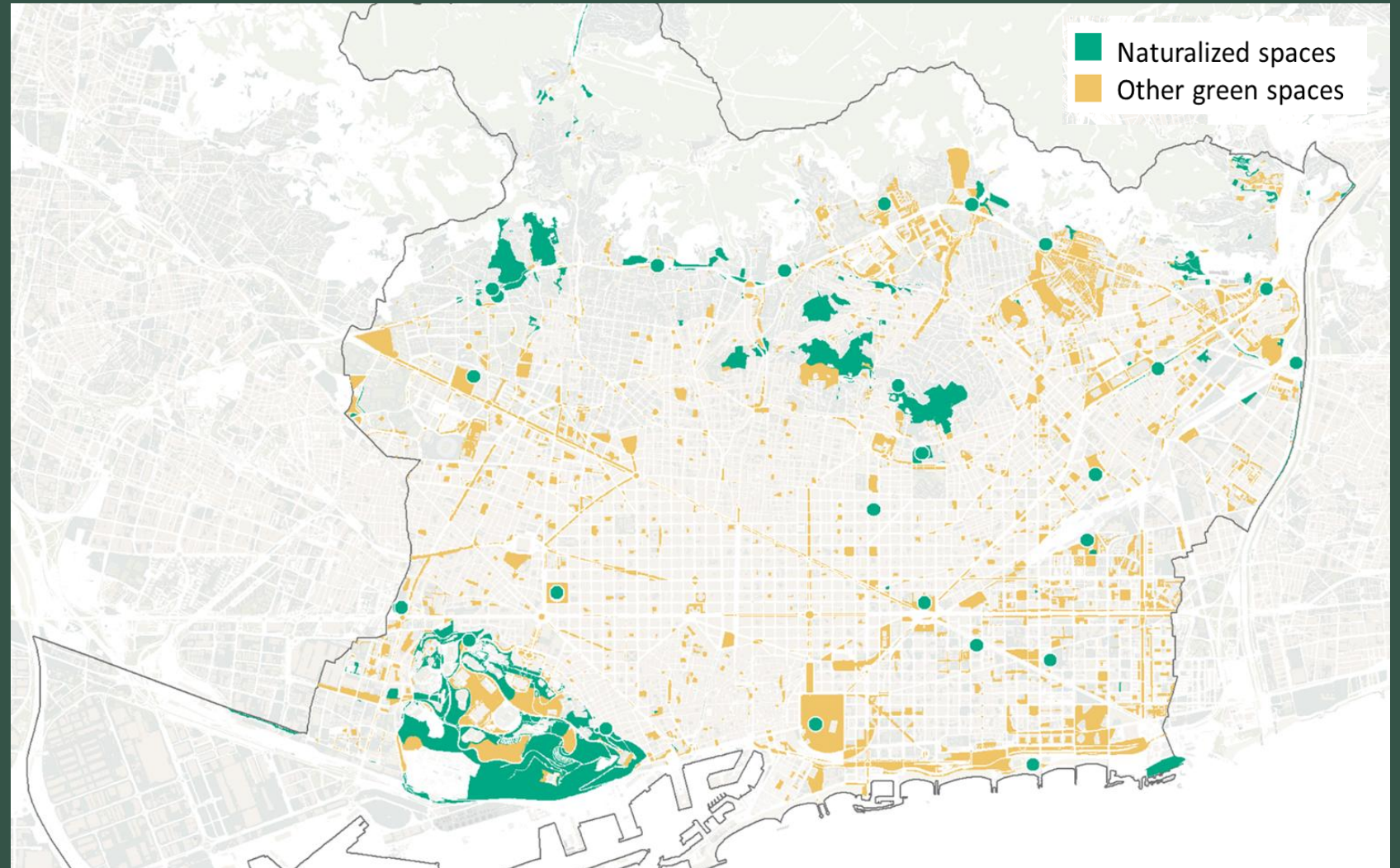
- “SUDs”

- Naturalized ponds

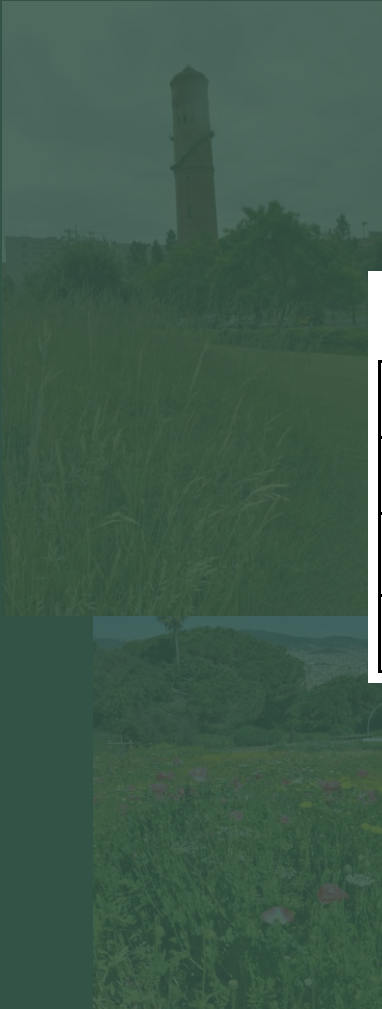
- Floral groups formed by vivacious plants

- 12 Biodiversity refuges (18)

- Others...



Evolved management of herbaceous plants



Parcs i Jardins

Metodologia de treball

Parcs i Jardins

Metodologia de treball en jardineria

MANTENIMENT

	G	F	M	A	M	J	J	A	S	O	N	D
Desbrossament			1			(1)				1		
Desbrossament selectiu					1				1			
Gestió d'espècies no desitjades o invasores										1		
Neteja de manteniment	1	1	1	1	1	1	1	1	1	1	1	1



Biodiversity refuges

REFUGIS DE BIODIVERSITAT	Nº	Superfície (m2)
Parc Joan Miró	1	515
Jardins Valent Petit	1	622
Antiga fàbrica de ca l'Alier	1	264,07
Nodes Pl. Glòries	7	3115,89
Jardins Dr. Pla i Armengol	1	3.951
Pl. Sagrada Família	1	1.769
Pl. Antoni Gaudí	1	3.300
Parc Diagonal Mar (closed area)	1	29.011
Espai NUR	1	180
Parc Lineal de la Sagrera	1	1.152,29
Riu Besós		



Enhancement of spontaneous flora



Flora espontánea durante el confinamiento, 29 de abril de 2020



Caps blancs (*Alyssum maritimum*)



Margaridoia (*Bellis perennis*)



Borrajta (*Borago officinalis*)



Boixac de camp (*Calendula arvensis*)



Corretjola (*Convolvulus arvensis*)



Ravenissa blanca (*Diplotaxis erucoides*)



Installation of wildlife structures

446 structures

Nest boxes (50%)

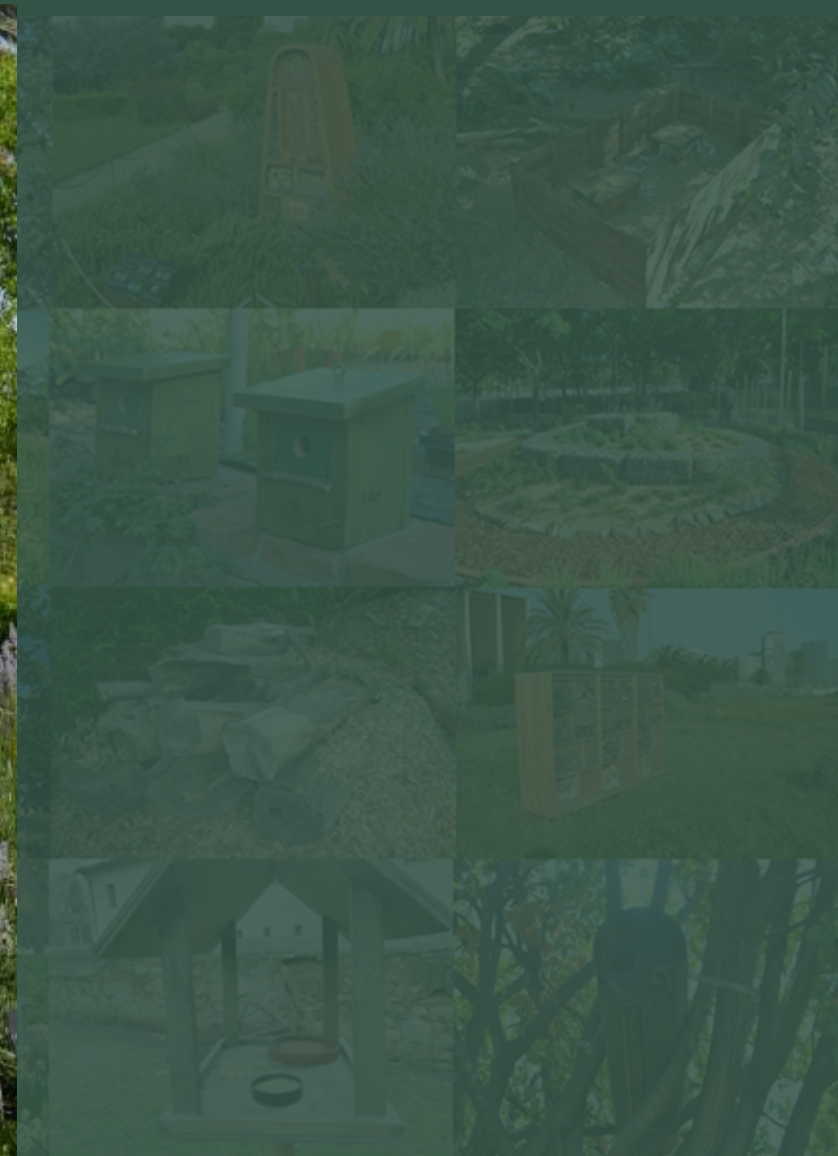
Bee hotels

Logs

Rocks (aromatics, accumulations, cages)

Mud for swallows

Areas and nests for hedgehogs



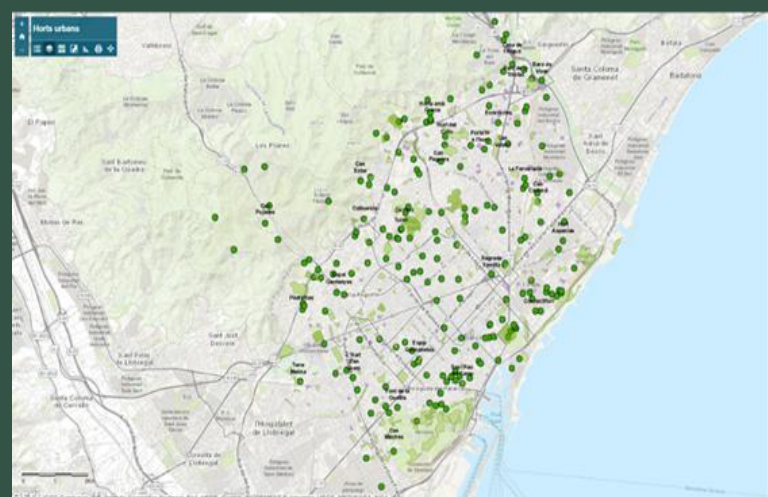


**Line 3. With and for residents.
“Hands on Green Program”**

Some examples

Line 3: With and for residents. “Hands on Green Program”

Strategy for **urban agriculture**, awareness-raising activities and co-responsibility on the beaches.
It carries out citizen involvement projects for nature actions in the city and promotes volunteering.





UNIVERSITAT DE
BARCELONA

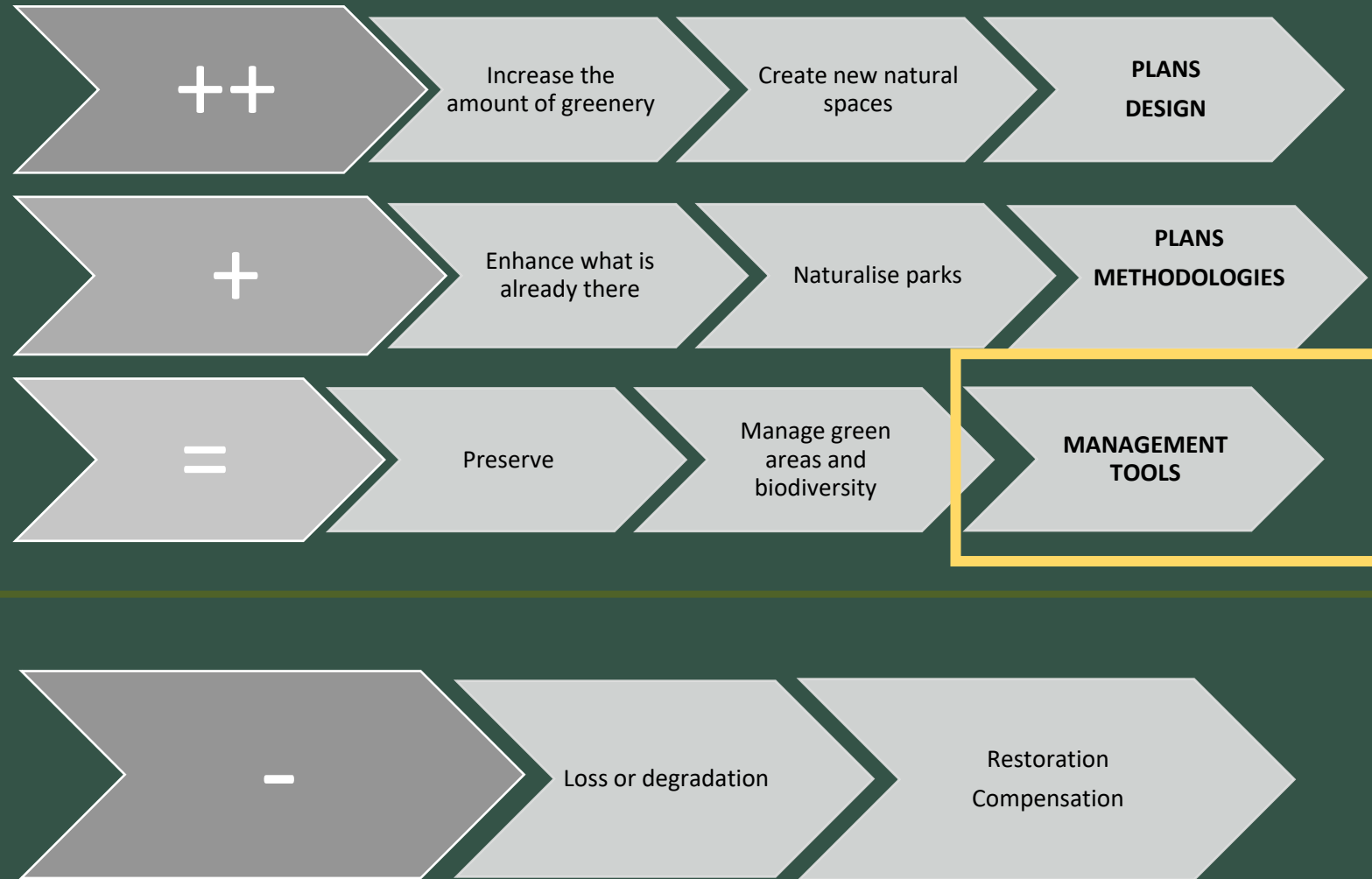
Institut Català d'Ornitologia



de la taxa de canvi anual 2005-2021



■ Espècies autòctones	1,00	1,10	0,94	0,92	0,91	0,89	0,92	0,85	0,78	0,79	0,84	0,90	0,82	0,68	0,89	0,62	0,66
■ Espècies assilvestrades	1,00	1,09	1,06	1,04	1,10	1,01	1,06	1,00	1,15	1,25	1,22	1,13	1,22	1,34	1,46	1,41	1,56



- EL ARQUITECTÒNIC
- CONSTRUCCIÓ
- PAVIMENT
- SUBPARTERRE
- ARBUST
- BAMBÚS, JONCS
- BULBOSOS
- ENFILADISSA
- ENTAPISSANT
- FRANJA FOREST.
- GESPA
- GESPA C4
- GRAMÍNIES
- GRUP DE FLOR
- GRUP MIXT
- HERBASSAR
- HORTS
- PRAT
- PRAT SEMBRAT
- ROSERS
- ROSERS DE COL.
- SENSE VEGETAC.
- SUCULENTES
- TANCA VEGETAL
- VIVACES I RIZOM
- ZIN HERBACI
- ZIN LLENYÓS
- ZINA
- ELEMENT
- ARBRAT
- ENCINTAT
- ESPORTIU
- JOC INFANTIL
- MOBILIARI
- ALTRES MOBILIA
- ALTRES SENYAL
- APARCAMENT BII



Fitxa de l'element 930900

V073 | PARTERRE

Nom Espai: Glòries Catalanes, Pl.

Tip. Via: Plaça | **Carrer:** Glòries Catalanes | **Nº:** 8

Districte: SANT MARTÍ | **Barri:** EL PARC I LA LLACUNA DE

Dades de la Sub-Àrea

Tipus Sub-Àrea: SUBPARTERRE | **Codi Sub-Àrea *:** 0097-02-V073-SV003

Tipus Inventari *: ARBUST

Ubicació:

Encoixinat: RESTES VEGETALS | **Pendent:** Escull una opció

Material Reg: GOTEIG | **Nivell manten.:** USOS

Tipus Aigua: FREÀTICA / POTABLE | **Estat vegetacio:** Escull una opció

Tipus Reg: TELEGESTIONAT

Topiari: Si No | **Perímetre:**

SUDS: SÍ - PARCS I JARDINS | **Adaptació vegetal:** Escull una opció

Alçada: 0,75 | **Tipus Fullatge:** FULLA AMPLA

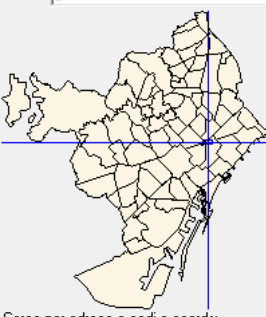
Data d'alta: 08/08/2019 | **Data de baixa:**

Data modificació: 23/03/2026 | **Usuari modificació:** D302584

Gestió: PARCS I JARDINS | **Precisió Topogràfica:** Si No

Superfície: 396,77

Cerca: guineueta



Cerca per adreça o codi o coords:

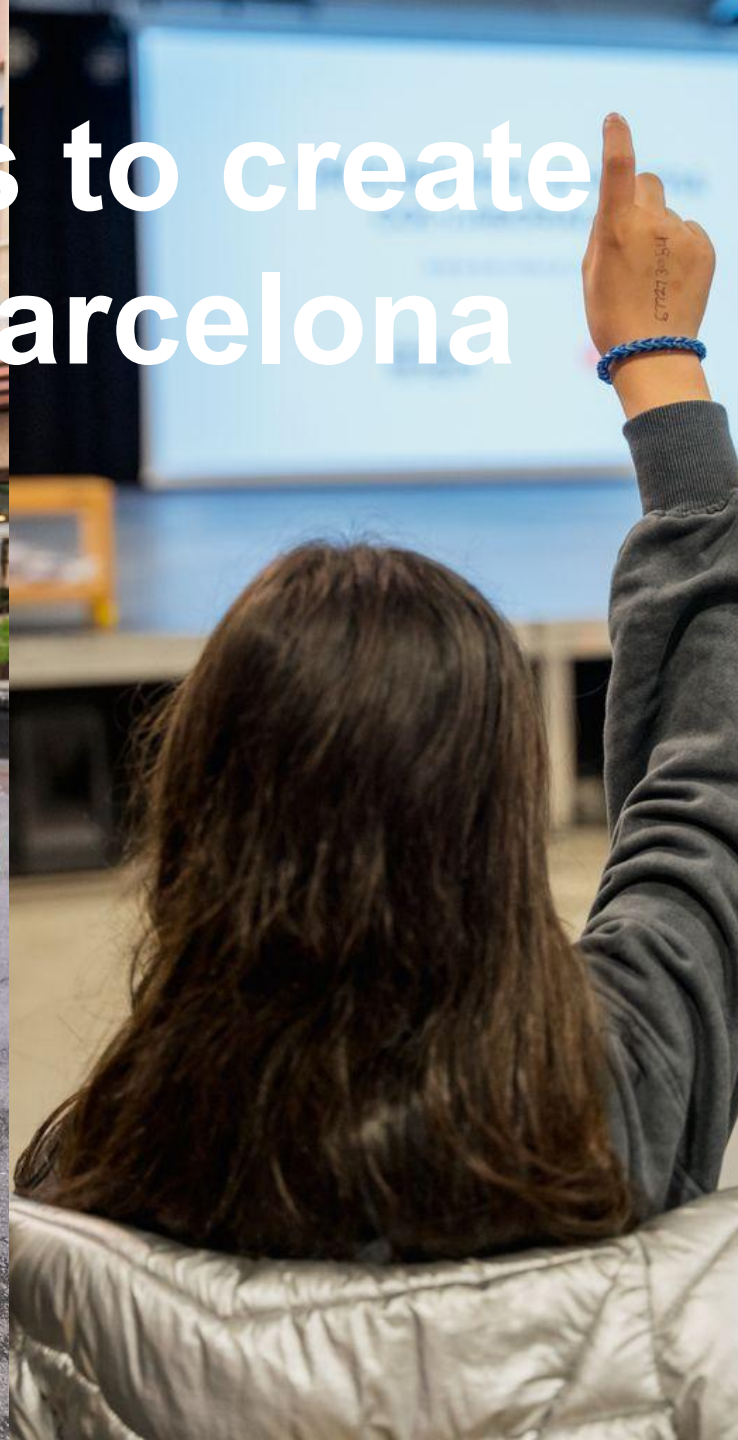
	G	F	M	A	M	J	J	A	S	O	N	D
Desbrossament			1			(1)				1		
Desbrossament selectiu					1				1			
Gestió d'espècies no desitjades o invasores										1		
Neteja de manteniment	1	1	1	1	1	1	1	1	1	1	1	1

pendents | **Actuacions Realitzades**

Prev	Data Fi Prev	Estat feina
	31/12/2026	EN CURS

primeix fitxa

Participative processes to create new (green) spaces in Barcelona



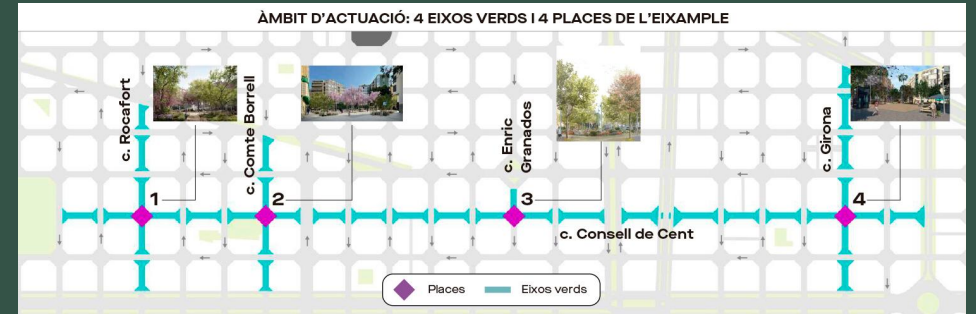
Types of participative processes:

- 1. Participative budgets:** Participation is the base of the whole project. Idea starts **from** the neighbours. Requires technical input and strong follow-up and adaptation to reality (Ex: maintenance, budget or conception of green).
3 or 4 meetings normally.

Examples:

- **Plantation of trees**
- **Transformation of schoolyards**
- **Renovation of public spaces for youth**
- **Renovation of sportsyard**
- **Many others.**

2. Big, transformative projects and/or large areas

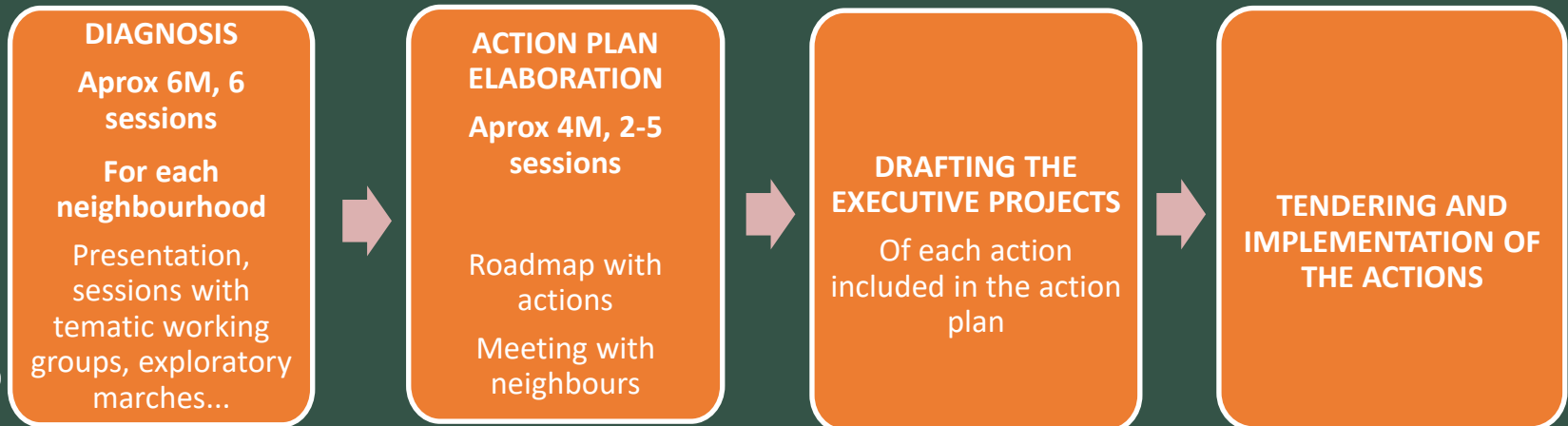


Tailor-made participative process

Years long

Crucial to explain very well

Creation of a “motor” working group

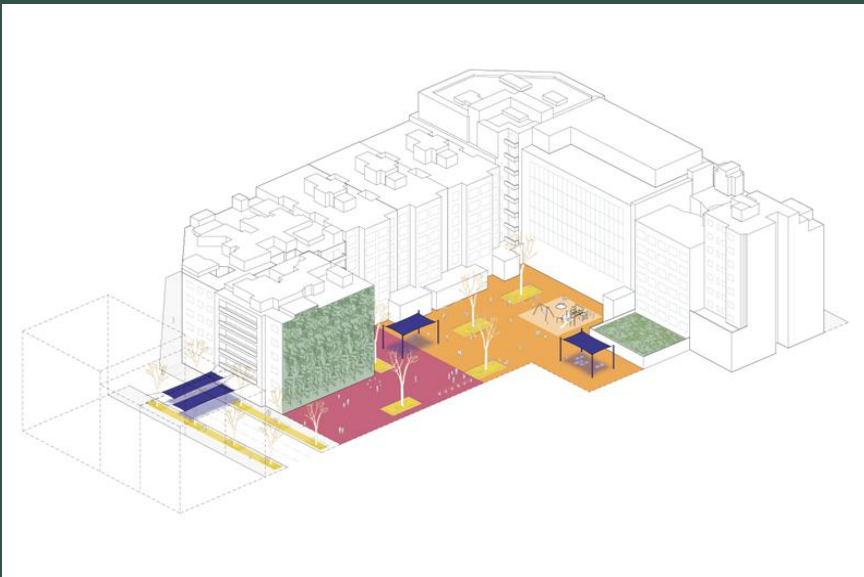


3. Parks strategic plan (“Pla director”):

- For parks already existing
- Participative process with citizens, schools, service-providers
- **Shared diagnosis; uses of the areas** and their interaction with maintenance

INFORMATION PHASE	DIAGNOSIS PHASE	DEBATE PHASE	Technical work	FEEDBACK PHASE	FOLLOW-UP PHASE
2 months	3 months	2 months			1 month
Constitution of the steering comitee table	Actions at public space, interviews, exploratory walks, in-situ sessions, stands, etc	Debate sessions		Feedback sessions and sessions with steering comitee table	Follow-up of the strategic plan

4. New small projects: example: transformation of internal square projects



1. **First draft** of project according to context (*1-2 months*)
2. **Meeting** with neighbours, associations nearby. Neighbours make suggestions
3. **Evaluation of proposals and adaptation** (technical work within the municipality different departments, *aprox 2 months*).
4. **Meeting** with neighbours for consensus of majority
5. **Final proposal**
6. **Meeting with neighbours**



Gender equality in Parks and Gardens

29%   71% overall
23% 77% gardeners

By law, less represented group must be at least 40%

No pay gap

- **Gender equality Plan**
- **LGTBIQ+ Plan**
- **Sexual and gender-based harassment protocol**
- **“Purple point”** (phone and e-mail)
- Some conciliation measures around birth
- Annual formation includes topics on gender equality
- Try to increase women at brigades. Some internal processes reserved for women
- Communication and awareness-raising campaigns

Still a lot of work to do

Moltes gràcies

شُكْرًا!

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