

La



URBAN AGRICULTURE AS A NATURE BASED SOLUTION IN BOGOTA CITY

Martha Perdomo
Bogotá Botanical Garden
General Manager

28/09/2022

que estamos construyendo

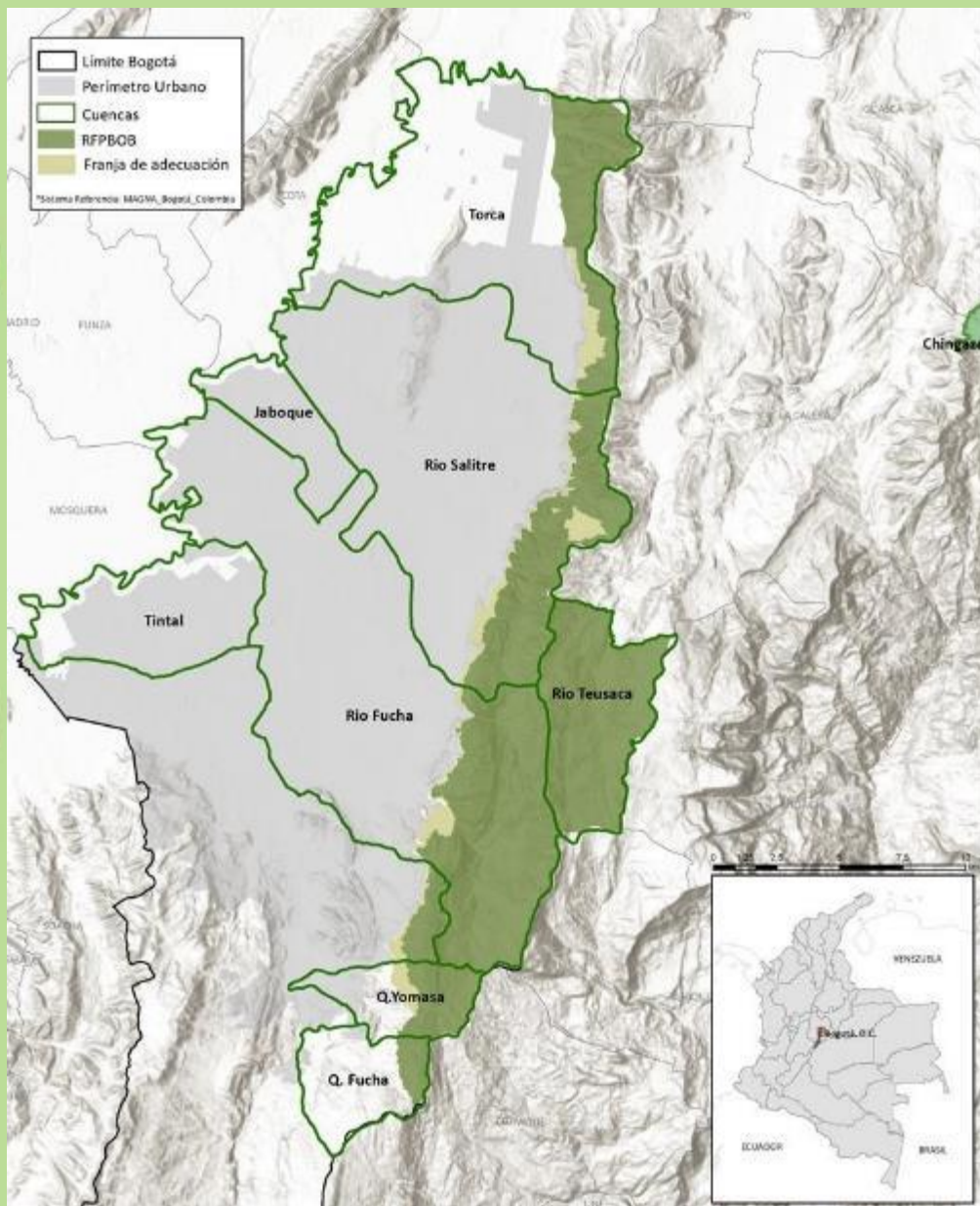


GEOGRAFIC LOCATION



Source: World Bank

B O G O T A



Extension: 1.775 Km²
 Urban area: 25 %
 Rural area: 75 %

Population: 8'380.801 (2020)
 urban population: 98%
 Rural population 2 %

Altitude 2.640 m.s.n.m. (8,448 f.o.s.l.):
 Andinean and Paramo ecosystems
 Colombian Andes mountain range

JARDÍN BOTÁNICO DE BOGOTÁ EN EL PDD

"UN NUEVO CONTRATO SOCIAL Y AMBIENTAL PARA LA BOGOTÁ DEL SIGLO XXI"

5 propósitos

1

Hacer un nuevo contrato social con igualdad de oportunidades para la inclusión social, productiva y política.

2

Cambiar nuestros hábitos de vida para reverdecer a Bogotá y adaptarnos y mitigar el cambio climático

3

Inspira confianza y legitimidad para vivir sin miedo y ser epicentro de cultura ciudadana, paz y reconciliación

4

Hacer de Bogotá Región un modelo de movilidad, creatividad y productividad incluyente y sostenible.

5

Construir Bogotá región con gobierno abierto, transparente y ciudadanía consciente

30 logros de ciudad - JBB 6 Logros

Ingreso de hogares	Reducir pobreza	Sistema distrital de cuidado	Jóvenes
Ruralidad	Inclusión productiva	Participación y transformación cultural	
Modelo de salud	Brechas de cobertura y calidad en educación	Vivienda	
Proteger la fauna urbana	Reducir la contaminación	Sistema hídrico	
Cambio climático	Áreas estratégicas	Espacio público y áreas verdes	
Estructura ecológica principal	Reciclaje y disposición de residuos		
Paz y reconciliación	Violencia contra la mujer		
Reducción de delitos, muertes y hechos violentos			
Ilegalidad, conflictividad e informalidad		Autorregulación y dialogo social	
Experiencia de viaje	Infraestructura y actividades para el uso del tiempo libre		
Aglomeraciones productivas y sectores de alto impacto			
Gobierno Abierto de Bogotá		Territorio inteligente	
Integración y ordenamiento territorial		Gestión Pública efectiva	



"A new environmental and social contract for the Bogota of the 21st century"



Mission Statement

To investigate and conserve the vegetation of the Andean and Paramo ecosystems, contributing to the **generation, application and social appropriation** of knowledge in order to be able to adapt to climate change, improve quality of life and aim for the sustainable development of the city and the region.



Vision Statement

In 2038 we will be recognized nationally and internationally as a **benchmark research center on Andean and Paramo ecosystems, and as a natural destination**, which contributes to the transformation of the environmental thinking and the sustainable development of the territory.



Researching to Preserve



by researching and generating new knowledge in conservation, ecological restoration and sustainable use of flora, in key natural city areas.

Green Management



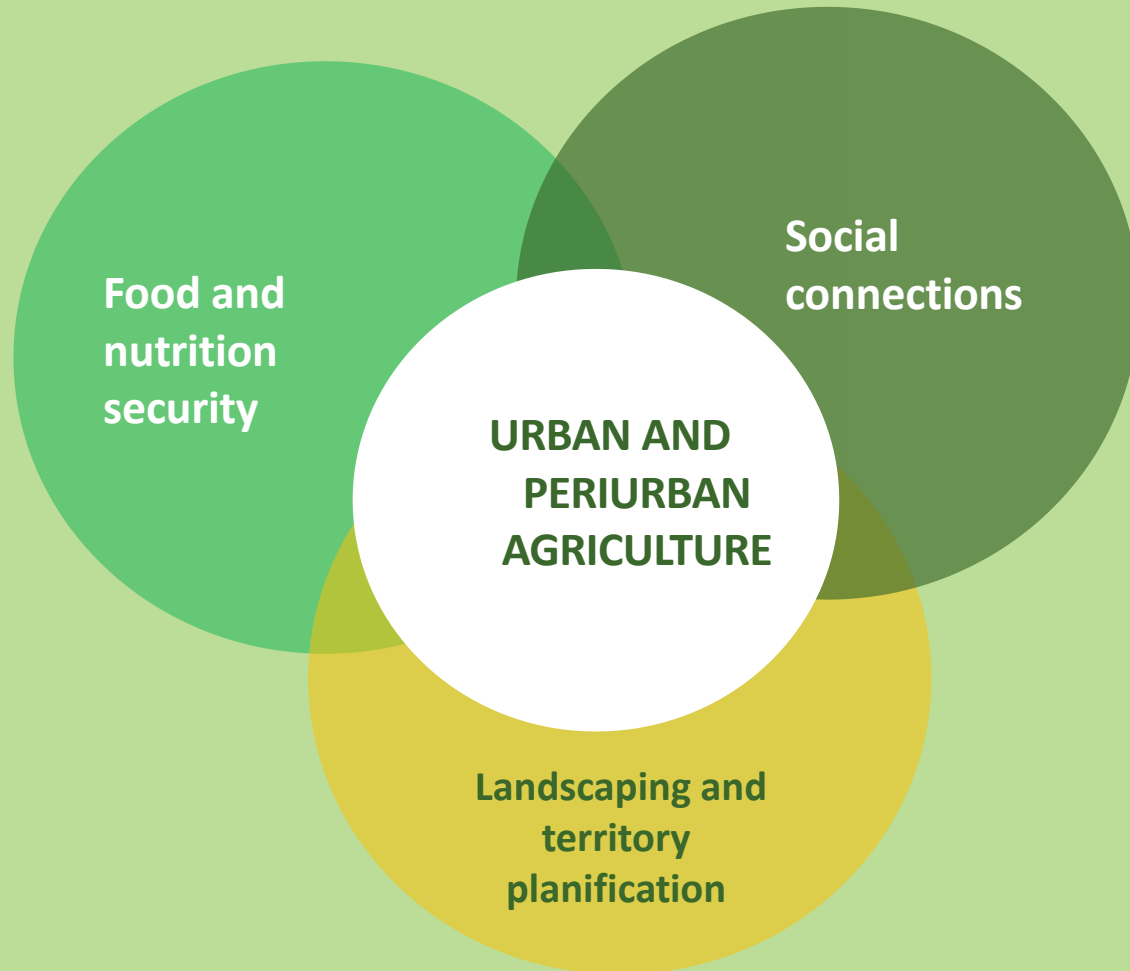
by improving and increasing biodiversity, connectivity, natural features and services of the city's vegetation and green infrastructure.

Conservation Education

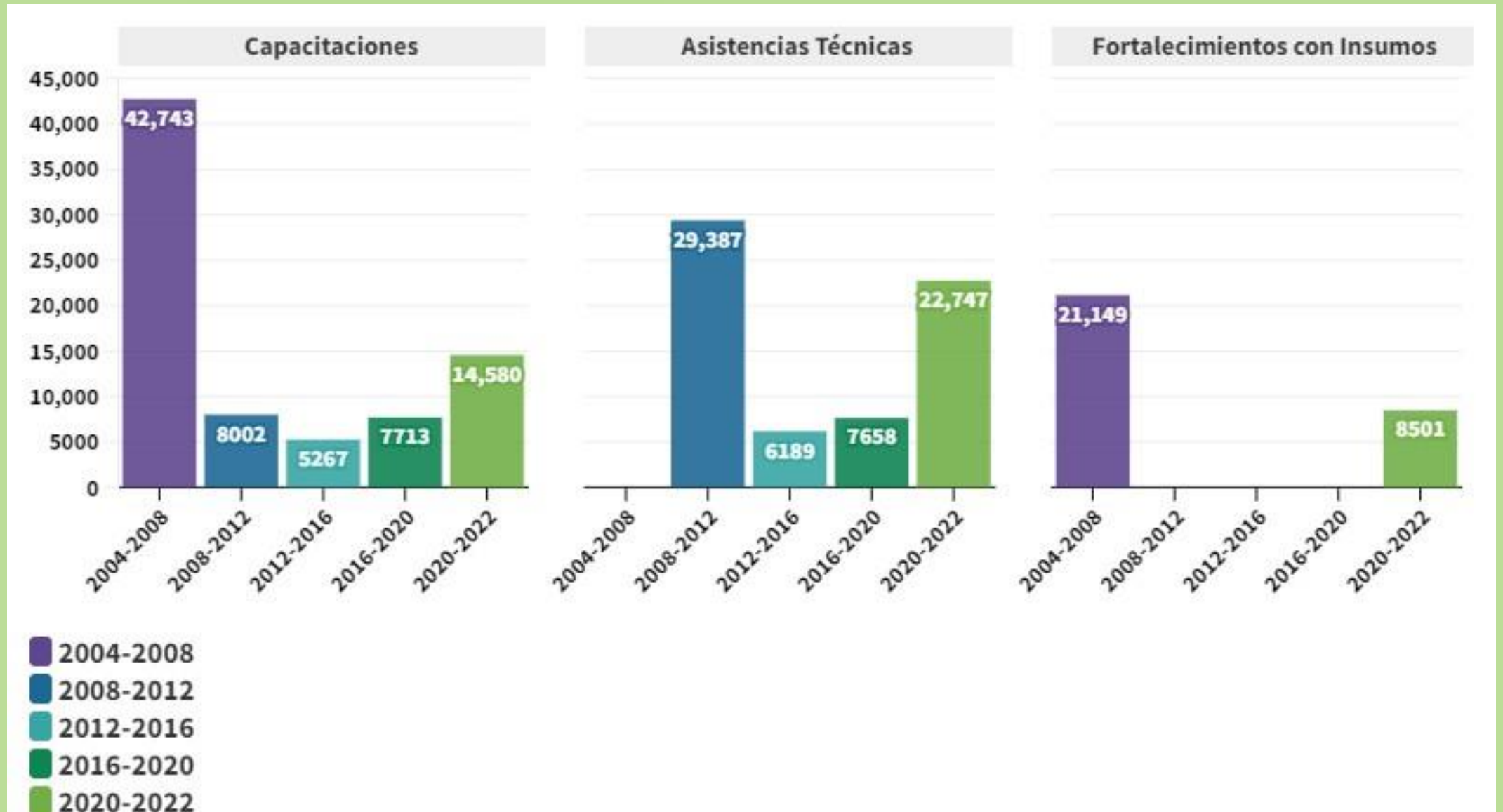



promoting an environmental stewardship in Bogotá by increasing social participation and conservation education.

Urban Agriculture multifunction



Urban Agriculture background in Bogotá D.C.





PROYECTO 7681
“Fortalecimiento de la agricultura urbana y periurbana en las localidades urbanas de Bogotá D.C.”

1. Increase crop productivity in urban and peri-urban agriculture projects

Strengthen urban agriculture as a practice that enhances food production, environmental management, sustainable use of natural resources and social connections.

2. Formulate and implement the district program for urban agriculture

3. Strengthen social organization processes around urban agriculture

RESULTS (august 2022)

1. To Increase crops productivity and crops returns:

15.241 people trained (76,2%) courses and trainings on topics as species transformation, irrigation and drainage, green house, seed banks (germplasm banks), marketing and sustainability.



24.146 people supported (60,4%) creating dynamics between traditional and technical knowledge for the development of production processes and the achievement of food security and sovereignty.

9.310 Garden beds enriched (45%)

Most of the materials and bio-supplies delivered came from JBB internal production processes (seedlings and substrate) and some from third party contracts.



Urban Agropark

“ A new social and environmental contract for the Bogotá of the 21st century”
City Agreement No. 761 of 2020 "by which the economic, social, environmental and public works development plan of the city is adopted 2020-2024.

Article 110. *Green urban renewal strategies.* The District Government will prepare technical and legal studies to develop or update strategies that allow the consolidation of public or private green spaces, which improve the supply of ecosystems services with approaches to mitigate the climate crisis, prioritizing the intervention of areas through the reconversion of hard soil to soft soil with native species and urban agro-parks. These strategies may incorporate environmental economic instruments that demonstrate cost-efficiency and contribute directly to the improvement and maintenance of urban vegetation covers.

Decree 555 of 2021 "By which the general review of the Territorial Planning Plan of Bogotá D.C. is adopted”

- Recognition of Urban Agriculture as an environmental design criteria for the pedestrian public space system (Article 122, Decree 555 of 2021).
- Articulation of urban agriculture to related services and activities in the pedestrian public space system (Article 125, decree 555 of 2021).



Jardín agroecológico JBB.

Ciudad Montes Urban Agropark

- Puente Aranda county

Location:



Meeting spaces:



It is a vegetable garden that articulates productive chains and functionally; integrates agroecological production and management, garden products transformation and marketing, and promotes social connections.

Zoning: areas that can be found in the Agropark:

- Crops – vegetable garden beds.
- Organic waste management
- Green house
- Harvest collection and storage
- Harvest transformation (Gastronomic Center)
- Marketing (Farmer's market)
- Complementary Areas (flower beds, natural open classroom)

Urban Agriculture Research background

From 2004 to 2022, different related lines of research have been developed: Sustainable use of plant species; species propagation.

154 species belonging to 62 botanical families have been investigated; their potential in the medicinal, industrial and agri-food fields has been determined.

The Botanical Garden participated in the "Grant No. 664-2014 for the support of innovation in Gastronomy-2014" of COLCIENCIAS.

Articulation with Universities and Research groups:
National University of Colombia, Minuto de Dios University Corporation, Francisco José de Caldas District University, Javeriana Pontifical University, CESA.



Urban Agriculture Applied Research

Development of technological packages on propagation, crop management, plant health and bioprospecting in useful species for urban and peri-urban agriculture.

Propagation



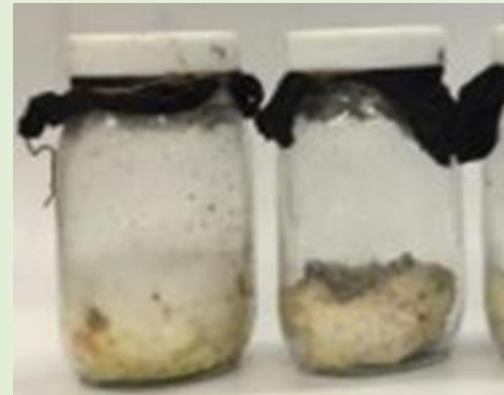
- Soil and substrate mix
- Irrigation techniques
- pre-germinatives treatments

Agronomic management



- Solar exposition
- Planting densification
- Planting containers

Sanitary and nutritional management



- Identification of phytosanitary problems
- Agroecological management
- Microbial broths
- Macronutrient antagonism and solubility tests

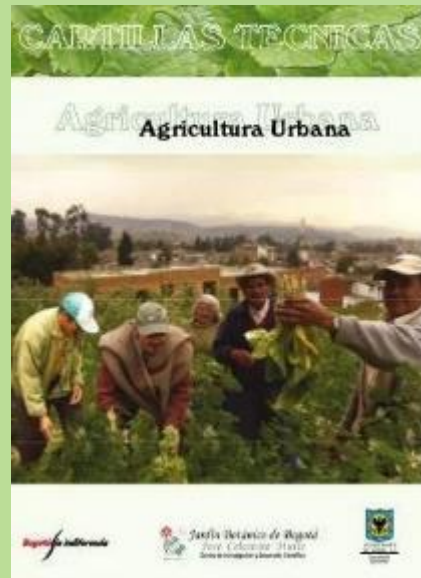
Use and Transformation



- Species Bromatology
- Processing and use protocols
- Acceptability and Shelf Life Assessment

Promotion and disclosure

Agroecological Urban Agriculture JBB Publications



JARDÍN BOTÁNICO
DE BOGOTÁ



Promotion and disclosure

2021- 2022 Social media informative contents

- Facebook: 370.
- YouTube: 44 videos.
- Twitter: 891.
- Instagram: 163 .
- Total social media: 1.468.

Content creation and growth in “Bogotá es mi Huerta Portal”

- News 2021: 22
 2022: 15
- Blogs: 2021: 4
 2022: 55

Tutorials (aprende) 2021: 22 / 2022: 9

Total publications: 127

Total Website Visits : (www.jbb.gov.co): 8.657 visits

News media Impacts by free press sobre AUPA (2021-2022).

261 news and reports on community and mass media networks.



RECUPERANDO LA MEMORIA HISTÓRICA

DE LA AGRICULTURA Urbana

Actividad para recuperar la memoria histórica de la agricultura urbana, con la Red de Agricultores urbanos de la localidad de Tunjuelito

02 jun 2:00 p.m.
Cra 62A No 57 - 05 Huerta Chihiza I.E

Localidad Tunjuelito

BOGOTÁ

Te invitamos a **construir el Plan de Acción de los Agricultores y Agricultoras Urbanas** de la localidad de SUBA

Viernes 20 Mayo 10:00 a.m.

Carrera 125 # 147A Finca - Huertita

Apoyan: Jardín Botánico José Celestino Mutis Alcaldía Local de Suba

BOGOTÁ

Fortalecimiento de la **RED LOCAL de Agricultores y Agricultoras de Suba**

Viernes 8 de abril 9:00 a.m.

Huerta Guerreros y Guerreras, unidos en acción

Calle 144C #147A- 20 - Barrio: Fontanar del río

En el marco del convenio 345-2021 de la Alcaldía Local de Suba

Localidad Suba

BOGOTÁ

de **huerta en huerta**
Rutas agroecológicas por Bogotá

Participa en la inauguración de nuestra nueva ruta

Centro 29/03/2022

Agenda

- 8:00 a.m. Experiencia Fábrica de Loza Av. Los Comuneros Cra. 2A
- 10:00 a.m. Experiencia Santa Elena Cra. 5A # 31 - 40
- 11:00 a.m. Experiencia Quinta de Bolívar Cll. 21 # 4A - 30 este
- 12:00 m. Experiencia del Cóndor Cll. 10 # 3 - 41
- 1:00 p.m. Experiencia Botánico Hostel Cra. 2 # 9 - 87

Disponibilidad máxima de 6 horas

Se recomienda el uso de ropa cómoda, calzado antideslizante, protección solar, paraguas e hidratación.

Organizan: Jardín Botánico de Bogotá con el apoyo del Instituto Distrital de Turismo

Si requieres más información comunícate al correo rutaagroecologica@jbb.gov.co

BOGOTÁ

BOGOTÁ es mi huerto

Programa Distrital de agricultura urbana y periurbana

Mercados Campesinos Agroecológicos

Lugar: Plazuela principal del Jardín Botánico

SÁBADO 5 9 am / 3 pm **DOMINGO 6** 9 am / 3 pm

#Bogotámihuerta

Cultivamos, compartimos, nos alimentamos

BOGOTÁ

Tertulia de la conservación

Plantas e interacciones usadas en la agricultura urbana

MIÉRCOLES 20 ABR 02 PM

LIVE TEAMS

BOGOTÁ

2. To formulate and implement the urban agriculture district program



Bogotá es
mi huerta

Programa Distrital
de agricultura urbana
y periurbana



Etapa de Problematización

- 4 Asambleas territoriales.
- 1 Mesa Distrital de Actores.
- 3 Mesa Interinstitucional.
- Personas participantes:
284.

Etapa planeación estratégica

- 5 Asambleas territoriales.
- 1 Mesa Distrital de Actores.
- 2 Mesa Interinstitucional.
- Personas participantes: 225.

Etapa de programación

- 5 Asambleas territoriales.
- 1 Mesa Distrital de Actores.
- 1 Mesa Interinstitucional.
- Personas participantes:
144.

Integrative Action Plan:

- 8 components
- 43 initiatives/projects
- 182 activities

Participation meeting spaces:

- Territorial assemblies.
- District table.
- Interinstitutional team.



* Aporte de 26 public/ community organizations.

3. Strengthen processes of social organization to promote urban and peri-urban agriculture

NETWORKING AND SUPPORTED NODES



1. TUNJUELITO



2. LOS MARTIRES



3. LA CANDELARIA



4. TEUSAQUILLO



5. KENNEDY



6. RAFAEL URIBE



7. SUBA



8. ANTONIO NARIÑO

- + 290 networking leaders
- + 2.000 people reached by urban agroecological practices
- + 100 activities that promoted social interaction and participation.

“Bogotá es mi Huerta” Plataforma

"Bogotá es mi huerta" is a co-created website. It was implemented in 2021 by an alliance with Organizations for the Iberoamericans states for the Education, Science and Culture OEI.



Source: City General Secretary. Award recognition to JBB “Bogotá es mi Huerta”, second place transparency subcategory, Open and honest Government Bogotá 2021

- 9 meses de funcionamiento
- 15. 121 Usuarios registrados
- 49.769 Visitas al micrositio



Bogotá es
mi huerta

Agroecological Routes goals

Goal: to create and consolidate 5 agroecological routes.

Progress: 2 routes
Suba y Centro

¿Qué es un ruta agroecológica?

Experiencias auténticas alrededor de la agricultura urbana

Una ruta agroecológica es un recorrido interactivo en donde las huertas urbanas y periurbanas de Bogotá se conectan entre sí.

Está acompañado de actividades basadas en la educación ambiental y la agricultura como eje principal de un nuevo escenario de relación humano-naturaleza.

Esta iniciativa educativa y turística busca dar a conocer y fortalecer procesos ícono de la agricultura urbana y periurbana de la ciudad a locales y extranjeros.



de huerta en huerta
Rutas agroecológicas por Bogotá

Conoce nuestras RUTAS AGROECOLÓGICAS
CLIC AQUÍ

BOGOTÁ

ALCALDÍA MAYOR DE BOGOTÁ

de huerta en huerta
Rutas agroecológicas por Bogotá

ALCALDÍA MAYOR DE BOGOTÁ D.C. | INSTITUTO DISTRITAL DE TURISMO | BOGOTÁ

ALCALDÍA MAYOR DE BOGOTÁ D.C. | JARDÍN BOTÁNICO DE BOGOTÁ | BOGOTÁ

Going back to the soil



Social network

SERVICES

AUP Workshop
Vegetables and
Plants sales
Mingas



Garden Beds Vegetables

SERVICES

Processing Workshop
Vegetables market
Experimental tour



Greenhouse environmental

SERVICES

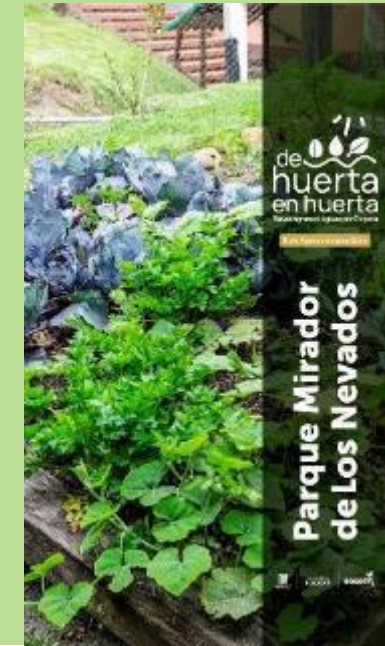
Plants marketing
Nature experience



Auto sustainability

SERVICES

Apiculture workshop
Processing marketing
Vegetable market



Institutional support

SERVICES

Workshops and
guided tours
Nature experience

Going back to the soil



Community and natural Patrimony

SERVICES

Physical and mental wellness
Cultural activities
Historical Value

Plants Art and magic

SERVICES

Accommodation
Gastronomic offer
Yoga

Processing

SERVICES

Transformation workshops
Composting
Traditional and vegetarian cooking

Permanence In time

SERVICES

Natives species
Patrimonial trees

Ancestral wisdom

SERVICES

Apothecary
Ancestral food and beverages
Sacred stone



**CAFE VIRTUAL
DE HUERTA
EN HUERTA
SUBA**

Jueves
11 de agosto
4:00 pm

BOGOTÁ
PARA TODOS LOS BOGOTANOS

de huerta
en huerta



Agroecological Farmers Market



2021 YEAR 6
2022 YEAR 9

15 Farmers Market

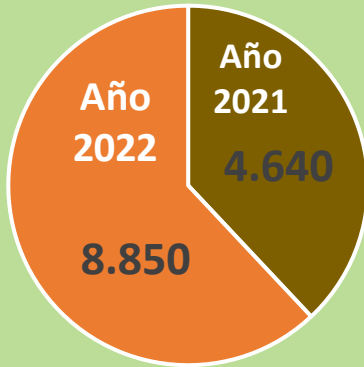
en articulación con la SDDE



AÑO 2021
\$86.031.850

AÑO 2022
\$153.388.500

TOTAL VENTAS \$239.420.350



13,490 Kilos
FOOD VOLUME



Urban agriculture
 Farmers
 Local entrepreneurs
 Mujeres que Reverdecen

504 Exhibitors



Bogotá es mi huerto



Organic Farmers Markets Achievements

Hygiene and food handling courses



Development of 6 hygiene and food handling courses in coordination with SENA, for urban farmers who sell products from their garden beds and enterprises of Mujeres que Reverdecen

Inter-institutional articulation



Coordination and inter-institutional strengthening between the JBB, SDDE, IPES and IDT for the development of marketing strategies for urban and peri-urban agricultural products

Event participation



Positioning of urban agriculture in brand events such as: Showroom Cotelco (IDT), Mercado Campesino Plaza de Bolívar (SDDE), comercialización de canastas de AUP (IDPYBA).





Mercado Campesino Agroecológico
Huerta Chavela
Suba



Huerta Asograng
Ciudad Bolívar – M.C.A.



Huerta Chavela
Suba – M.C.A.



Mercado Campesino Agroecológico
Huerta Lolita
San Cristóbal

B O G O T Á



Huerta del Cabildo de Bosa
Bosa



Huerta Guerreros
Suba



Huerta Petunias
Engativá

Brand experience Bogotá is my Huerta First anniversary agroecological farmers markets



Huertas Plan Centro

Transformation of SPA sales premises into orchards

Entidades participantes en el proceso

- UAESP - Unidad Administrativa Especial de Servicios Públicos
- IDIPRON (grupos de jóvenes)
- Fundación FUGA- Fundación Gilberto Álzate Avendaño
- Alcaldía Local de Los Mártires
- Alcaldía Local de Santafé
- Fundación Amanecer
- Adulto mayor de la localidad
- Red de Agricultores de Los Mártires
- Centro Crecer "Amar"



Huerta
La Favorita



Huerta
Amar



Huerta
La Fortaleza

Mujeres que Reverdecen

Achievements October 2021 – April 2022



1,119 beneficiaries trained in various topics, highlighting training in urban agriculture.



Syllabus and appropriate methodologies for practical theoretical training in topics such as: urban agriculture, gardening, plant propagation, tree management, etc.



924 active women as of April 30, 2022 from 18 localities, with the main participation of inhabitants of the locality of Bosa with 183 women (19.8%), followed by Ciudad Bolívar with 143 women (15.5%) and Kennedy with 14.4 %.



88.2% are households women heads, 74.8% are women with dependals, including minor children or older adults.



Manzanas de cuidado (caring blocks) and ethnic communities



Trainings, technical support and strengthening of the following ethnic communities :

- ✓ Cabildo Muisca de Bosa
- ✓ Cabildo Muisca de Suba
- ✓ Raizales
- ✓ Palenqueros
- ✓ Afro
- ✓ Rrom



Technical assistance to caregivers in home and community gardens

Strengthening of household and community gardens with the delivery of supplies to caregivers' gardens.



Thank you!

