







URBAN ORCHARDS AS COLLECTIVE ACTION

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TABLE OF CONTENTS



OFFSITE URBAN ANALYSIS



FIELD RESEARCH



ANALYSIS



CONCLUSION

OFF SITE ANALYSIS / METHODS / ANALYSIS / CONCLUSIONS

TABLE OF CONTENTS

- 1. Urban Analysis Green Infrastructure
- 2. Methodology
 - a. DAY 1 (On Site Assessment)
 - b. DAY 2 (Community Engagement)
- 3. Analysis of Findings
- 4. Conclusion

Conclusions

Existing Conditions Pre visit

METHODOLOGY

Day 1 - OBSERVATIONS / SENSORY ANALYSIS (Lina, Krishna)

Argelia Facility

Observational Data - Excel

Qualitative Research - Quotes

Limitations

Day 2 - WORKSHOP (Wei, Lubna)

Qualitative Research - Surveys

Conclusions from Survey

Limitations

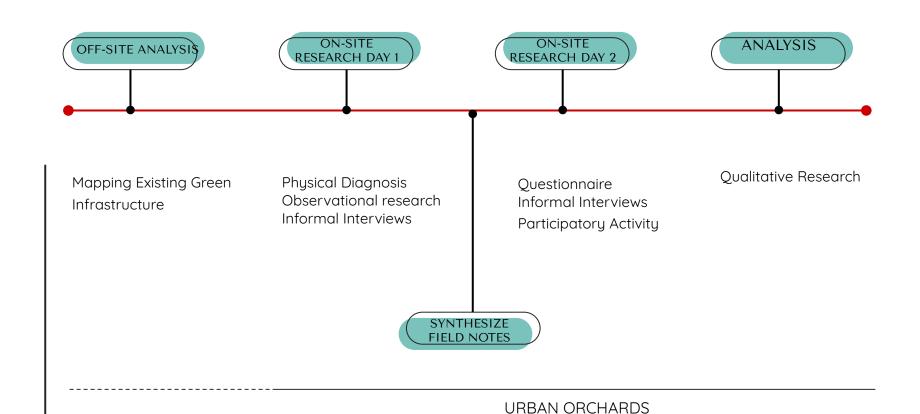
Analysis of Findings

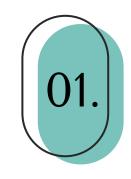
DAY 1/DAY 2 together

Potential Sites: Why is it good? (YS)

Map Green spaces -Orchards - Open Spaces Proposed Site - Site Analysis

Conclusions Blah Blah Blah We Don't Know





OFF-SITE
URBAN
ANALYSIS

LA LUCHA DE LOS POBRES B



GREEN FIGURE GROUND

- Voids
- Recreation
- Scrubs
- Private Garden
- Urban Orchard



VOIDS











RECREATION











TYPOLOGY: PRIVATE GARDEN





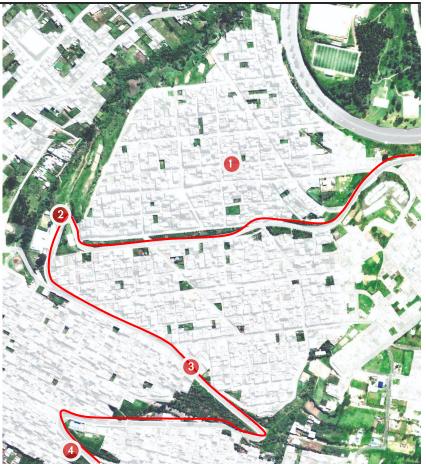






SCRUBS





URBAN ORCHARDS





MAIN URBAN CORRIDOR, CALLE 7

- Land owned by the municipality
- Since the land has been occupied and cultivated by people they have informal tenure security
- It is also a way for the municipality to ensure that the piece of land is taken care of





FIELD RESEARCH

- DAY 1 (On Site Assessment)
- DAY 2 (Community Engagement)

DAY 01

- Visit to Asociación de emprendedores La Argelia Alta
- 2. Physical assessment of selected study area in LLDLP
- Qualitative research with orchard owners and one of the founders of LLDLP to supplement physical assessment

DAY 02

- 1. Community engagement (focus group)
- 2. Qualitative research (questionnaire/activity)



1.01 ASOCIACIÓN DE EMPRENDEDORES LA ARGELIA ALTA

Highlights:

- Garbage dumping ground converted to urban farmland in 2008
- Food orchard collectively managed by 3 families currently
- Soil and climate suitable for multi-cropping without chemical fertilisers
- Water for irrigation from main supply thereby increasing production cost
- Legal enterprise:

Pros: Financial and educational support

from state and academia. Cons/

tradeoffs: high cost on maintaining payroll











La Argelia Alta, 16 Mar 2022

1.02 MAPPING GREENS

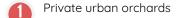
- 1. Identifying voids, green spaces, spatial appropriations and informal spaces of congregation in the study area
- 2. Mapping of existing urban orchards, Calle 7

Fieldwork conducted with the support and guidance of local expert Margarita



1.02 MAPPING GREENS

1. Identifying voids, green spaces, spatial appropriations and informal spaces of congregation in the study area



3 Scrubs on steep slopes

Private vacant green

4 Vacant green





1.02 URBAN ORCHARD DOCUMENTATION

CLASSIFICATION CRITERIA



Boundary Conditions

Branches and metal wires as borders



Types of Vegetation

Corn identified as an Important crop



Space Appropriation

Space appropriated as a garage by an orchard owner



State of Maintenance

Maintenance depends on the individual owner

1.02 SYNTHESIS OF OBSERVATIONS

URBAN ORCHARDS, CALLE 7, LA LUCHA DE LOS POBRES									
SI. no.	Vegetation Type			Boundary conditions		State of Maintenance	Remarks	Photographs	
	Vegetables	Fruits	Others	Fencing	Borders				
Part 1									
Orchard 1	Potato, corn, onions, carrots, beets, beans, lettuce, raddish	Peach, lemon	N/A	No proper fencing (iron sheets and tires)	Height Difference and a wood stick in the pedestrian	Cultivated and maintained	- Maintenance is a family activty on Saturdays or whenever they have time - Watering with hose required only from June-Aug or if its too dry - Surplus production - Weed invasion because of increased rainfall - Issues of theft reported		
Orchard 2	beans	Figs, lemon, nispero	flowers	Metal wire fence with wood sticks	No obvious border but a wooden platfom on the pedestrican	not well maintained, weed all over			
		2 3 4	5 6			10: 11	12 13 14	15 16 17 18 19	20
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1.03 INFORMAL INTERVIEWS

"We consider ourselves a family, we have a good and close relationship, we take care of each other's property."

ROSA, PRESIDENT MANZANA R

"During the confinement from March to June 2020, the authorities did not allow us to work or tend the orchards. But by July 2020 we resumed caring for their plants."

RESIDENT FROM CALLE 7

"Taking care of orchards are secondary activities. We do this for leisure"

RESIDENT FROM CALLE 7
GARDEN 1

Asked if we were going to give them advices and seeds and mentioned a previous group that did it. Complained about the quality of the seeds people gave them

RESIDENT FROM CALLE 7
GARDEN 2

Existing empty plots potentially available for orchards are not attractive to people due to distance from home and tenure insecurity (ex.: plots close to ecua-volley court)

RESIDENT FROM CALLE 7

KEY TAKEAWAYS: ARGELIA





Produce primarily for self consumption

Healthy and nutritious food

Community resource

Aligned with food sovereignty law, 2008



Economy

Surplus could be sold in open markets or for exchange within the community

Long term sustainability needs to be studied further

High cost of maintenance (legal, water etc.)



Community

Long term sustainability to be considered regarding formalising the action.

Community involvement and interest to be evaluated

KEY TAKEAWAYS: PHYSICAL ASSESSMENT CALLE 7





Existing orchards along the Calle 7 become extension of the private areas: privatized street

Dumped waste in the street



Orchards

Fencing and borders quality depends. All cultivated plots fenced off.

Productivity of cultivation: for self consumption rather than surplus for selling apart from one plot

Dumped waste in unused greenlands between orchards



Voids

Void lands near the street is on-sale at inflated price

Empty unused spaces identified, but location not suitable for private gardens

Dumped and burnt waste in void lands

LIMITATIONS: PHYSICAL ASSESSMENT





A few hours to conduct observations



Limited Access

To Physical Orchards + Views Inside

Assumed usage and maintenance



Small Sample Size

Physical assessment restricted to an area with existing orchards which are very visible.

Could only interview a few orchard owners

DAY 01

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EXPLORATORY THEMES

Food Sovereignty

Accessibility to fresh fruits and vegetables

Satisfaction of food qualities

Affordability of fresh products

Food Orchards

Relationship with orchard activities: experience, frequency, purpose, and participant

Interest about orchard if no experience and access

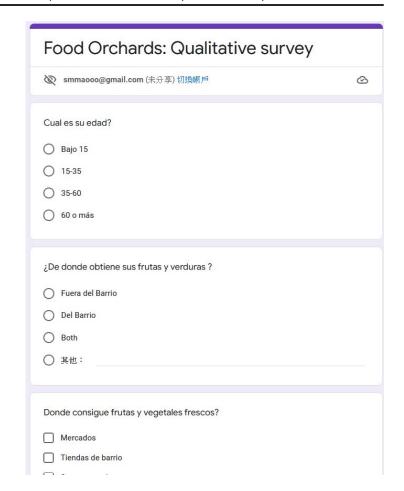
Community Perception

Opinions about existing community orchards

Preference of orchards: private or community

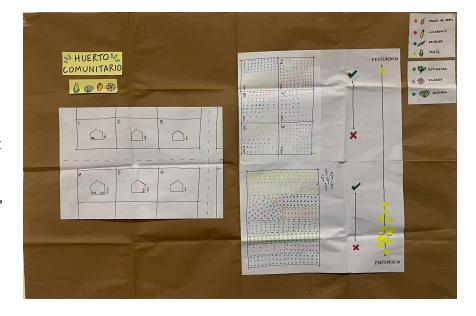
METHOD: QUESTIONNAIRE

- Google Questionnaire: questions based on the theme questions and translated into Spanish language
- 2. **Technology assistance:** in case the internet doesn't work well, we prepare tablets and cellphones for displaying questions and ask participants answer by hands

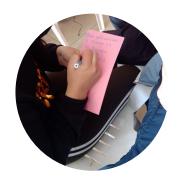


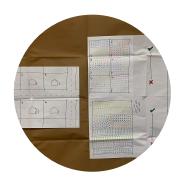
COMMUNITY ACTIVITY

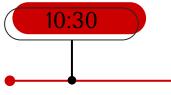
- Community Orchard introduction: introducing existing model in LLDLP and the possibility of community collaborations in orchard with graphic poster
- 2. **Preference Voting:** after introduction, requiring participants to vote for their preference of orchard models: collaborative or private



DAY 2: TIMELINE











13:00-13:30

Introduction

Community performance

Focus Group

Residents divided into groups for different topics

Questionnaire

Introducing designed questions, participants answered with cards and pen

Activity

Introducing urban orchard model and asking participants for their preference

LIMITATIONS: QUALITATIVE RESEARCH





Only 2 hours to conduct questionnaire and activity: not enough time for second group of people



Technology

Google sheet as a tool is not friendly for the elders who have less facilibility to technical devices, and for those who have no access to the internet



Participants

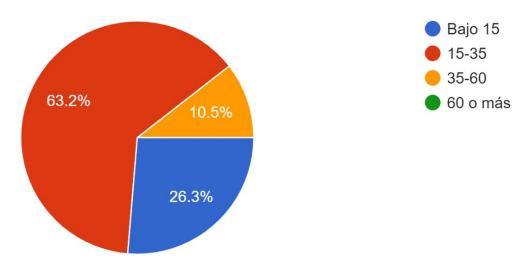
Most participants were under 20 years for the focus group.

Not knowing about the diversity/manzanas of participants

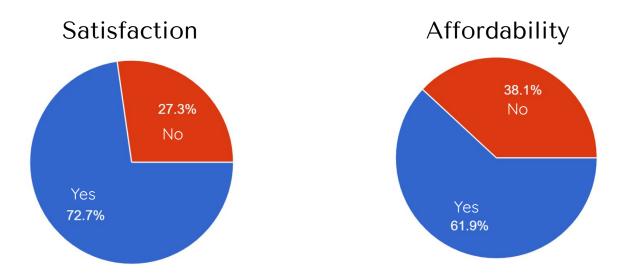


QUALITATIVE ANALYSIS

PARTICIPANTS



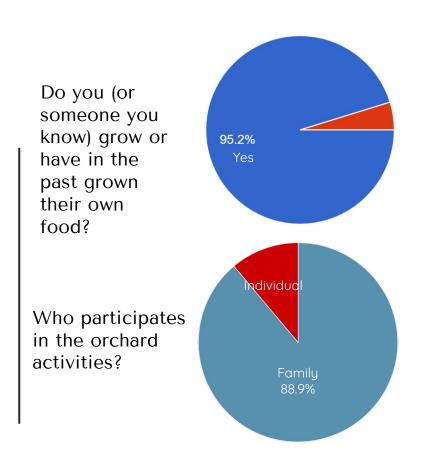
QUESTION- Are you satisfied with the quality of these foods?



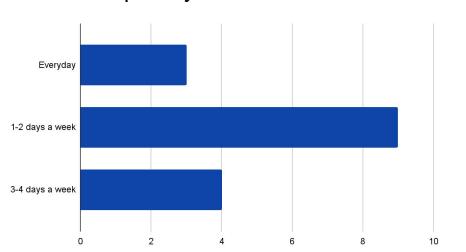
Resident G (15-35): 'Las verduras de calidad tienen precios muy altos (Prices of quality vegetable are very high).'

Resident K: 'porque a veces no son muy frescos (Because sometimes they are not very fresh).'

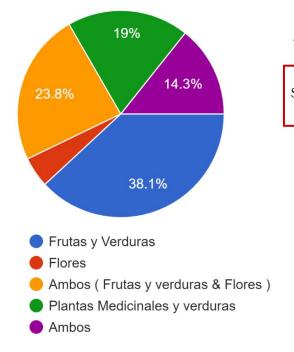
PREVALENT PRACTICES



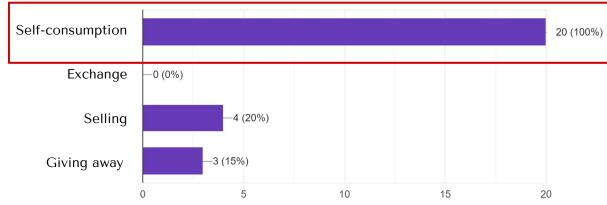
Frequency of work in the orchards



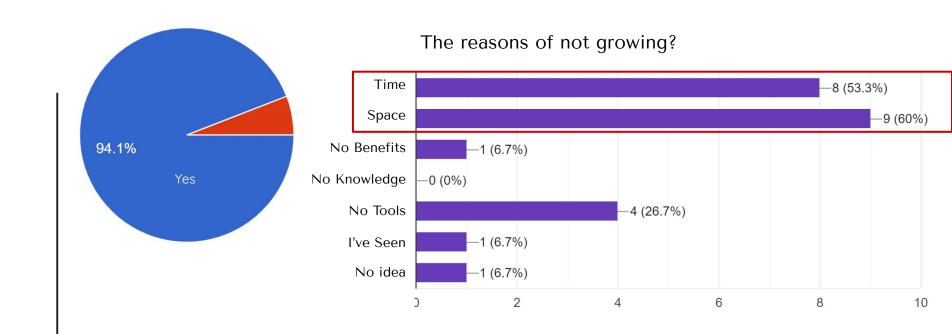
VEGETATION TYPOLOGY AND MOTIVATIONS



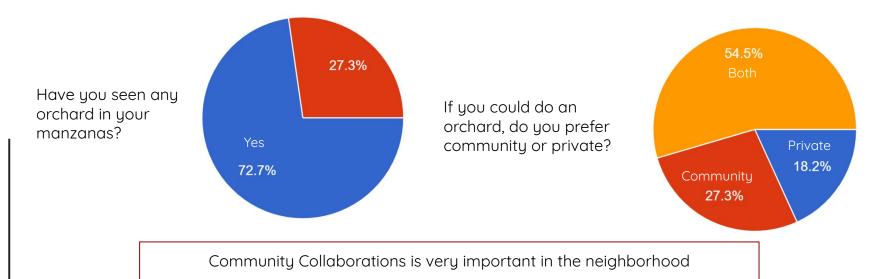
For what reasons or reasons did you decide to grow your own food?



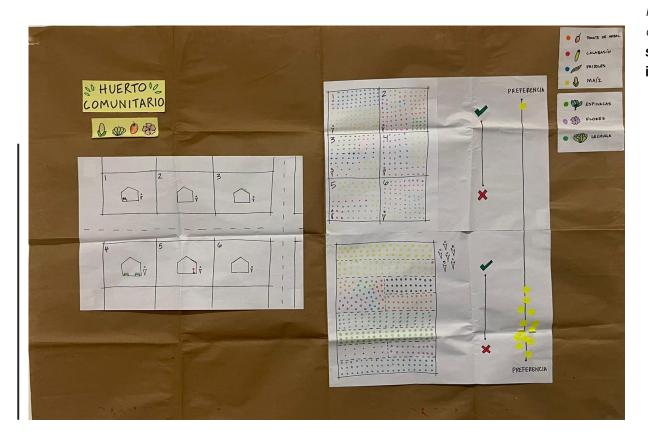
COMMUNITY PERCEPTION ABOUT ORCHARDS



QUESTION: PREFERENCES ABOUT ORCHARDS



COMMUNITY ACTIVITY: PREFERENCE



'nos gustaría mucho ya que no hay mucha unión en la comunidad (We'd like it more since there is not much union in the community).'

RESIDENT G (15-35)

'para la unión de la comunidad y para invertir de mejor manero nuestro tiempo (For the union of the community and to better consume our time).'

RESIDENT I (15-35)

'porque así comparto con las personas (Because that's how we share with others).'

RESIDENT H (15-35)

INFORMAL INTERVIEW: RESPONDENTS OPINIONS



'Nos gustaría charlas de ayuda psicológica y de depresión (**We'd like to talk about psychosocial and depression assistance**).'

RESIDENT G (15-35)

'Sería bueno que participen varias personas pero con actividades asignadas y que estén comprometidas con la causa (It would be good if only several people who are committed to the case participate with assigned activities)'

RESIDENT J (15-35)

'porque hay que ser colaborativo con las demás personas para poder cuidar el medio ambiente (Because you have to be collaborative with other people to be able to take care of the environment)'

RESIDENT K (15-35)

QUESTIONNAIRE REFLECTIONS

Community action and need for **healthy** food are the most critical reasons that drive desire for collective food orchards as per the questionnaire





Resident A (under 15): 'Para distraernos y poder comer nuestra cosecha (For distraction and being able to eat our harvest).'

Resident B: 'Satisfacción de cultivarlos (Satisfaction of growing).'



Health

Resident C (15-35): 'Es para poder comer alimentos sanos (it is to be able to eat healthy foods).'

Resident D (35-60): 'Para que sean libres de fungicidas, pesticidas (For Fungicidal and Pesticidal free).'



Economics

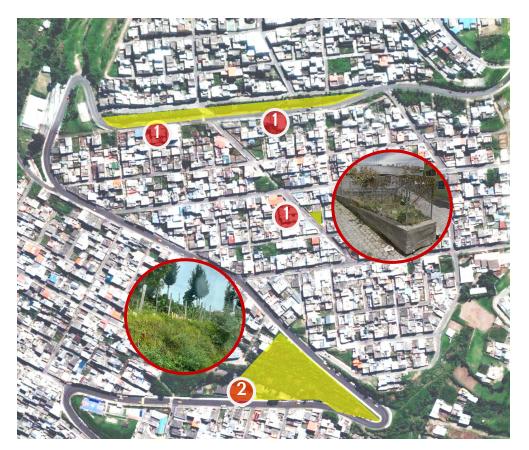
Resident E (15-35): 'Para autoconsumo y ahorrar en su economía (For self-consumption and save one's economic).'

Resident F (15-35): 'No hace mi papá porque la economía es baja (My dad doesn't have it because the economy is low)'

MAPPING OF ORCHARDS AND COMMUNITY GARDENS

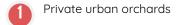
These are the orchards that we have identified. We would like to make it very clear that this is not an exhaustive list and further research needs to be conducted to map the all the formal and informal orchard practices in LLDLP

- Private urban orchards
- Collective action



MAPPED GREENS

Scrubs on steep slopes



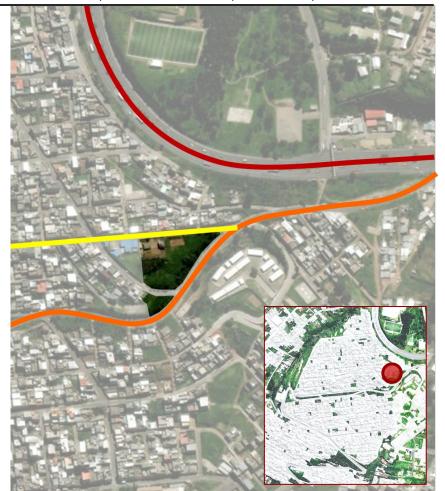
2 Private vacant green





SITE SELECTION: CRITERIA

- Good connection: close from commerce and main roads
- Close from other community activities
- Topographically possible
- Environmental factors



SITE PHOTOGRAPHS











EXISTING TOPOGRAPHY

Two plateau and a slope in between with significant height difference

Plots with potential for:

- Orchards
- Greenhouse
- Warehouse
- Composting area
- Kitchen



EXISTING TOPOGRAPHY



Potential area for a kitchen and composting area, close from community center

Potential plot for a greenhouse

Example: Asociación Argelia Alta



OPTION 1

- Flattening
- Connecting slope
- Height difference
- Divide plot into two connected spaces

Potential for different types of orchards: collective / individual use



OPTION 2

Turn the divided site into one by smoothening topography

Potential for a community orchard for collective use

Example: Asociación Argelia Alta

Terrace-fields







Limitations of Survey Community Collective is important to the community

Future Research Topics : Activating Public Spaces
Waste Management
Assessment of Community Needs
Psychosocial
Arts

New Survey - Broad

Overall Limitations



Time limit

Only through existing documents and 2 days of contact with the neighborhoods



Research bias

We were trying to identify potential of collective gardens in public spaces.

The questionnaire implicitly induced general answers to be related with orchards. Example: Use of public space for psycho-social support



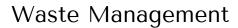
Community and Power relations

Not able to fully understand the **power** relations and dynamics of the neighborhood

Contradicting response about community collaboration: requires further investigation.

SUGGESTIONS FOR FUTURE RESEARCH

ACTIVATING PUBLIC SPACES



Waste management about the void public spaces could be an **entry point** for engagement and cooperation within communities to raise the awareness and establish the **new broader assessment**

Community Needs

More assessment and interaction with the community needed to figure out the real needs that could be implemented on the activated public spaces, such as psychosocial supports and art activities.

Key stakeholders to take the project forward

Community

People of LLDLP

Manzana Presidents

Neighbourhood President

Mingas (socio-cultural-spatial-material..... ... assemblages)

AYRIWA

Asociación de Emprendedores La Argelia Alta (potential key collaborator for knowledge and experience exchanges)

Institutions

Municipality: Right to public lands, tenure security and waste management

AGRUPAR- ConQuito: *Urban Agriculture*

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Academia

FLACSO

UIC Barcelona

University of Montreal

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Thank you for your attention

