

# Portafolio

Lindsay Tellez.

Arquitecta

2014- 2020



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II.

Sustainable Development

2014 - 2020

*Developed Research and constructed projects*

8.- Research project: The Biotopes as a sustainable path for development and restorative force of cities in climate action

9.- Revaluation of Urban Ecological Remnants.

9.1.- Planning Agroecological Communities

10.- Sustainable living. The Biotope Boutique House.

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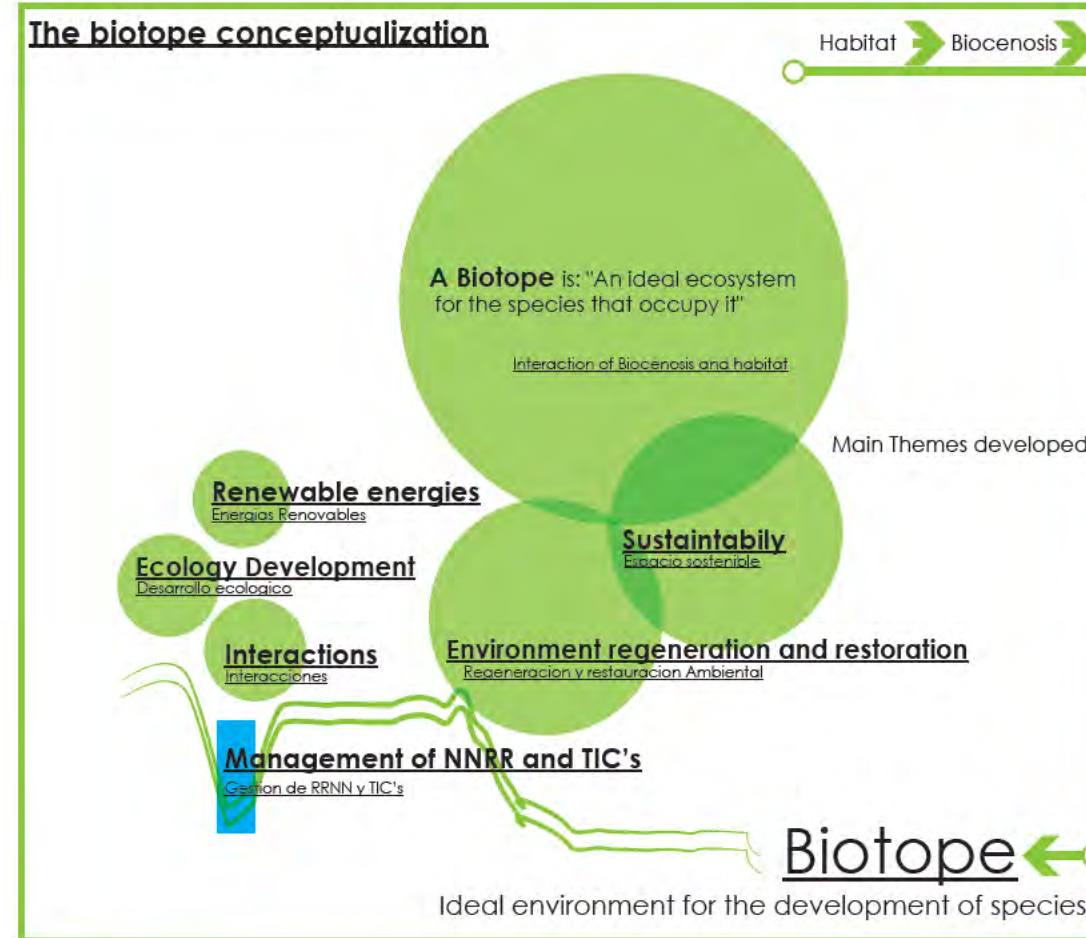
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The Biotopes as a sustainable path for development and restorative force of cities  
in climate action

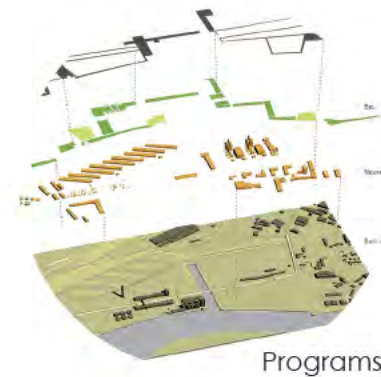
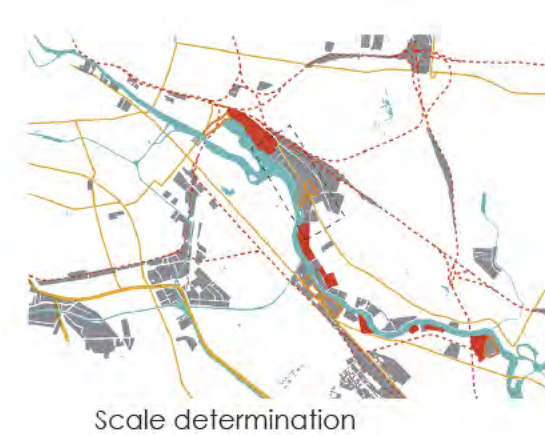
Asociate researcher at :  
Faculty of Architecture, Universidad Mayor  
de San Andres.  
June 2014 - 2020

# The approach

Habitat is the prerequisite for the existence of an organism  
Habitat → Biocenosis



A biotope is the place of Co-existence of all species, where interactions take place and offers the optimal conditions for their survival.  
Un biotopo es el lugar de Co-existencia de todas las especies, donde se desarrollan las interacciones y ofrece las condiciones necesarias para su supervivencia. incluimos al hombre dentro de la biocenosis.



# The Objectives

- Regeneration of nature  
freedom of the site ecology
- Housing  
public spaces  
reciclate infraestructure
- Nature becomes part of the revitalization and renewal of spaces  
Sustainable renovation and interventions
- Classification of infrastructures to restore and revitalize as potential for sustainable development
- Agree on strategies at different institutional levels to direct the ecological development of the territory

# Revaluation of Urban Ecological Remnants.

Revalorización de remanentes Ecológicos Urbanos.

Contractor:  
UMSA, Faculty of Architecture,  
Developer and asociated researcher at FAADU - UMSA  
Research project director and Bachelor thesis advisor  
June 2014 - March 2017

## Main duties

Conception and design of the project's proposal in order to achieve funds to develop a research project in relation to the revaluation of an urban ecological remnant.

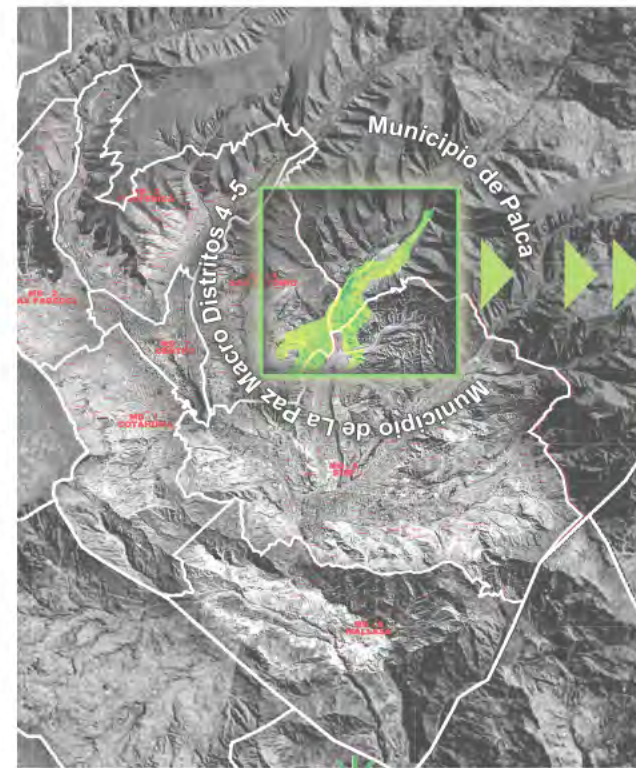
The proposal aimed to develop a Master Plan for agro ecological communities located in the urban periphery of La Paz city.

## Results and achievements

Funding achieved for the Development of the project "Revaluation of Urban Ecological Remnants".

The proposal for regulation and planning uses of soils in urban ecological remnants was developed, delivered and socialized with the presentations of Master Plan and project conclusions.

The Master Plan proposal conduit the community to a sustainable way of living, do the existing valuation of their environment and land uses. Promote to build eco-housing projects, potentiate security food and chains production in the land use, integrate renewable energies and new technology for natural resource management.



## Remanentes Ecológicos Urbanos

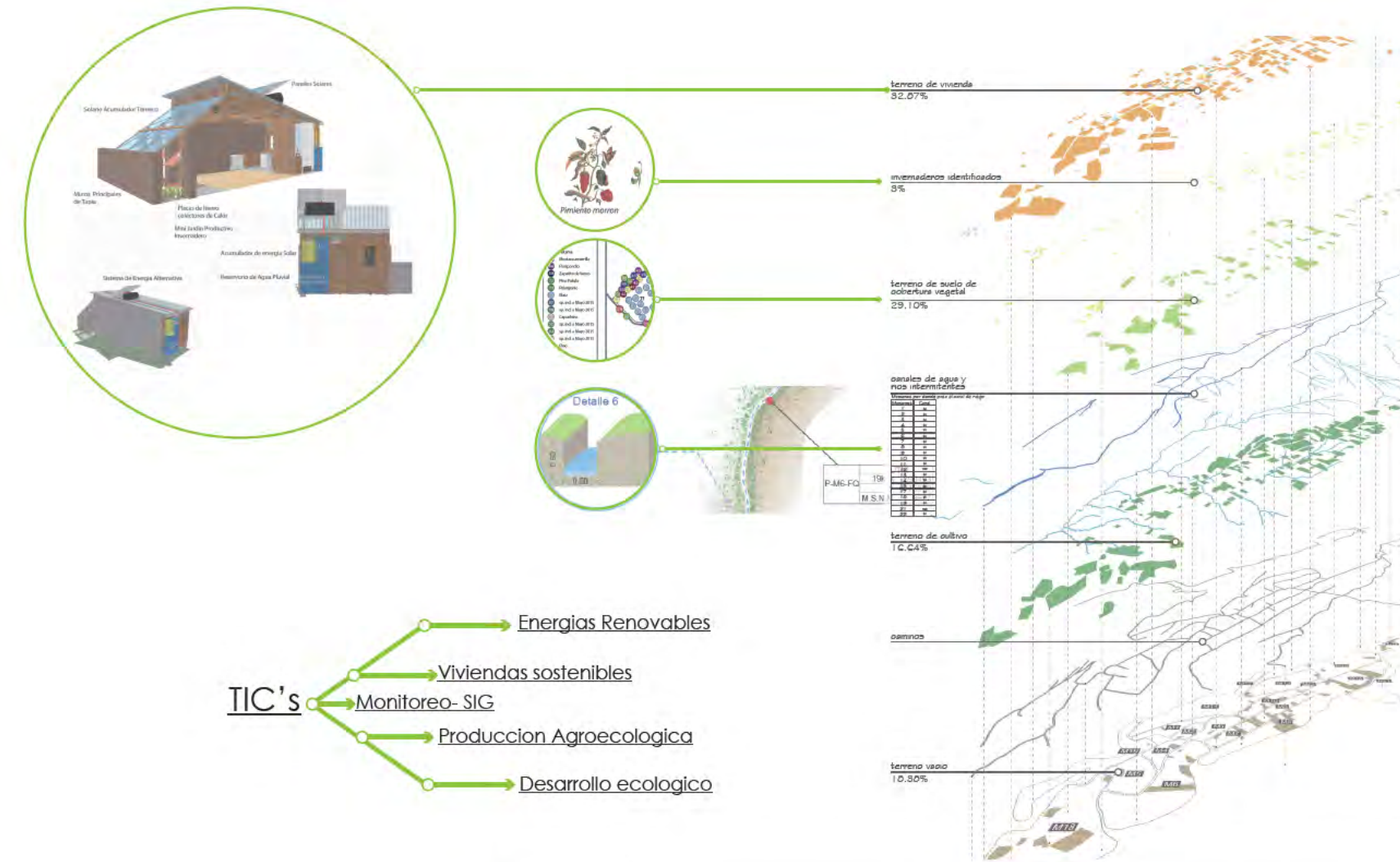


## De Remanente Ecológico Urbano

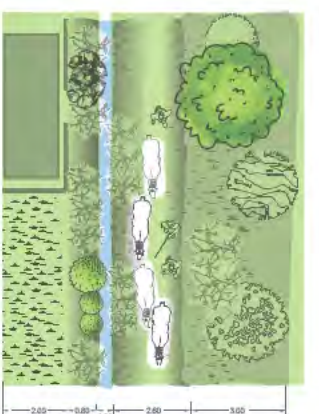
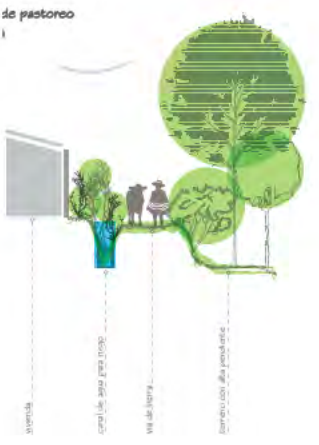
### Patrón de Arentamiento

Nueva Normativa de Uso de Tierras y Patrones de Arentamiento

### Comunidades Agro Ecológicas

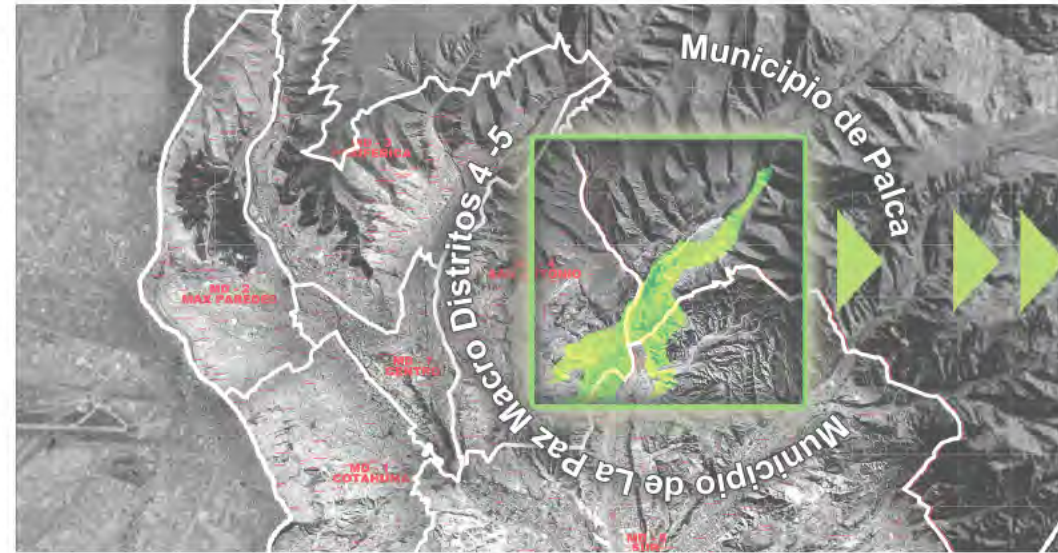


- TIC's
  - Energías Renovables
  - Viviendas sostenibles
  - Monitoreo- SIG
  - Produccion Agroecologica
  - Desarrollo ecologico



# Planning Agroecological Communities

Planeamiento de comunidades agroecológicas



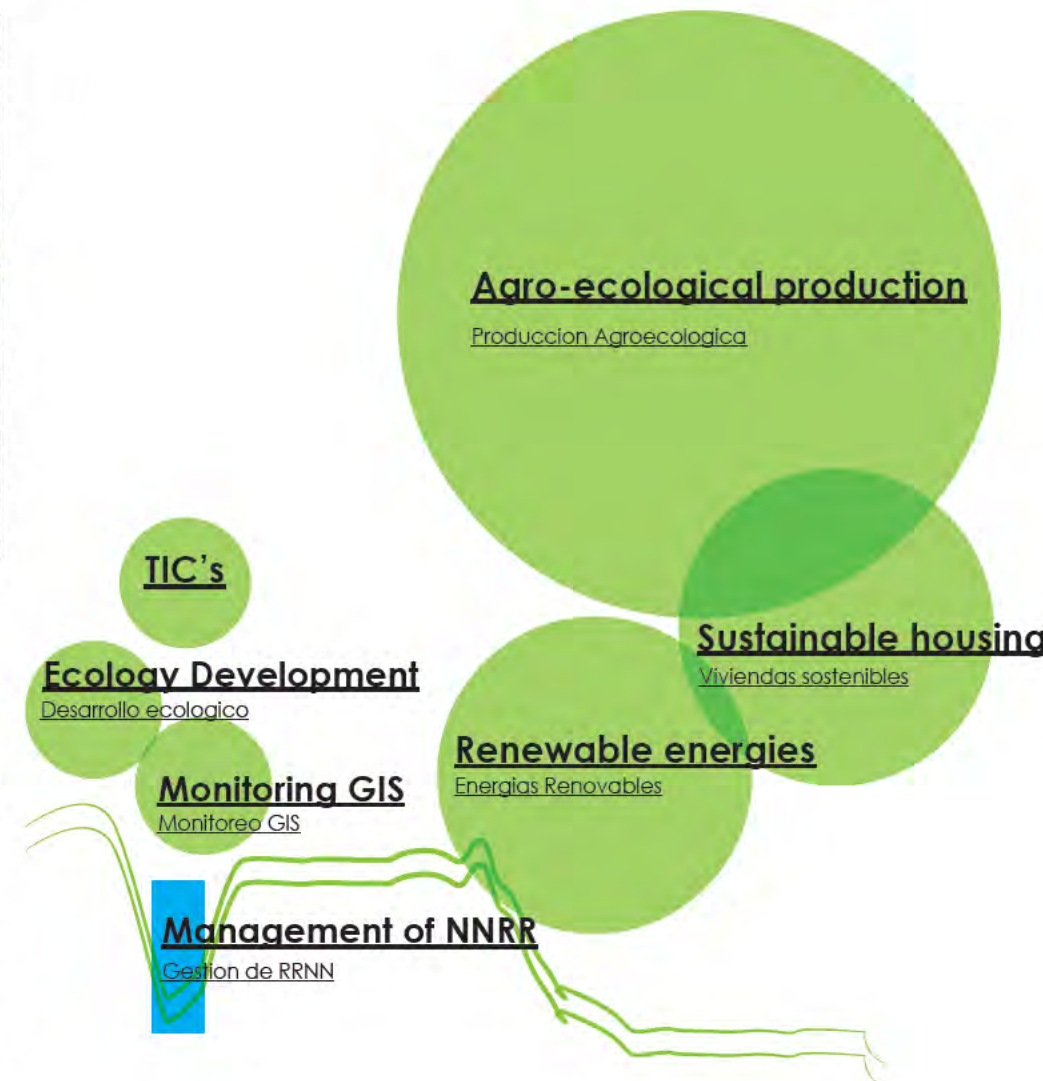
Developed the agroecological community Master Plan model

The project developed a G.I.S. especially designed for the community to achieve the sustainability of the project until after the proposal cycle, and to create the design and construction of agro-environmental stations with GSM technology.

The Agro-environmental stations with GSM technology help the farmers to establish an alert system to encourage the community to develop preventive actions and solutions in the different agricultural systems existing in their agricultural lands.

Training and workshops held to the community stakeholders on agroecology, environmental care and prevention on the use of pesticides, herbicides, and chemicals harmful to health and the environment.

The agrarian union of the beneficiary community is trained and ready to apply to



## Seguridad Alimentaria para La Paz

Seguridad alimentaria hace referencia a la disponibilidad de alimentos, el acceso de las personas a ellos y el aprovechamiento biológico de los mismos.

Según la Organización de las Naciones Unidas para la Agricultura y la Alimentación (FAO), desde la Cumbre Mundial de la Alimentación (CMA) de 1996, la Seguridad Alimentaria "a nivel de individuo, hogar, nación y global, se consigue cuando todas las personas, en todo momento, tienen acceso físico y económico a suficiente alimento, seguro y nutritivo, para satisfacer sus necesidades alimenticias y sus preferencias, con el objeto de llevar una vida activa y sana".

## Producción Agrícola Ecológica Comunitaria

La Producción Agraria Ecológica Comunitaria (PAEC) es un método de obtención de productos agrarios y alimenticios que pone un énfasis en la utilización de productos y técnicas naturales y fuentes de trabajo comunitarias.

La Producción Ecológica es un Sistema de gestión agrícola y producción de alimentos que combina las mejores prácticas ambientales, un elevado nivel de biodiversidad, la preservación de recursos naturales y la aplicación de normas exigentes sobre bienestar animal. Los métodos de producción ecológicos desempeñan un papel social doble, aportando, por un lado, productos ecológicos a un mercado específico que responde a la demanda de los consumidores y, por otro, bienes públicos de protección ambiental, bienestar animal e insentiva el Desarrollo Local.

## Desarrollo Endogeno Local

La concepción de Desarrollo Local es una estrategia de planificación para conseguir un Desarrollo Territorial equilibrado y Sostenible basado en los recursos disponibles (Precedo,1993; Colletis y Pecqueur,1995).

## Propuesta Urbana con Investigación e Interacción Social Universitaria

La investigación científica será la actividad que oriente a la obtención de nuevos conocimientos y saberes y por esta vía se dará la nueva propuesta de Planeación Agroecológica Urbana.

Tomando como factor fundamental la interacción Social, la cual promoverá la acción y participación de los actores sociales que se encuentran en los Municipios, Comunidades, Ayllus y Territorios Originarios de intervención, en los Programas, Proyectos y actividades a desarrollarse, con apoyo e involucramiento de Universidades Interesadas en la participación de este emprendimiento.

2016 - 2020

*Developed and constructed project*

**Sustainable living. The Biotope Boutique House.**

Vida sustentable. La Bio Casa

## Sustainable living. The Biotope Boutique House.

### Vida sustentable. La Bio Casa

Contractor:

Developer and entrepreneurship.

Founder and managing director.

January 2017- March 2020



The ultimate eco-friendly living experience. Appreciate nature and experience living in harmony with the environment.

The property was completely renovated, with the primary approach of reversion into sustainable infrastructure.

Venturing into the circular economy throughout the project from design, construction and commissioning, in the different interventions prioritizing the implementation of eco materials, renewable energies, management of natural resources, specifically water and energy consumption, solid-waste management and CO2 emissions.

The Biotope Boutique House was conceived to be fundamental in the commitment to protect nature and develop ecology and as much green areas and terraces as possible. The projection of a lodging area was essential to be able to contribute to the economic maintenance of the project for the opening and the first years of operation. Keeping in mind comfort, privacy and simplicity the lodging area arrive in developed 7 double rooms 1 Master king room and 1 private apartment all with Priv. bathrooms; incorporated the recycling water system as a priority objective.

The challenge of designing the area of the coffee shop and agro-ecological production was that it should be a space of transition between the normality of the outside world and the proposal of immersion to the visiting people into a sustainable life promoted by Biotope.

The principal greenhouse ( the Bio Fab Lab) being the heart of the project and the main public area for social interaction and environment sensitization shows how possible is to develop sustainable vegetable production and inspiring to the people ho visited the infrastructure to have green options of livelihoods on their mind.

People who visit the Biotope can sunbathe, wander in the gardens or help in the vegetable plots, have meetings or work remotely.

Healthy meals, prepared with the production of the indoor greenhouse and gardens are available and suitable for all the visitors in the main menu of the coffee shop.

The spaces were explicitly designed to promote education and social interaction for environmental awareness.

**The project has been conceptualized based on the approach of biotopes became the new wave of development, where ecology is the main issue and give the master lines for future infrastructure interventions in the way of climate action and sustainable development**

Sustainable Tech and design , specifically, the project is designed using environmental principles to improve the efficient use of water, lighting, heating and other services. Using a passive solar thermal system based on greenhouses attached to the living areas of the house, which allows maintaining a warm and pleasant temperature inside the infrastructure throughout the day and night and at the same time improved to grows the organic production in the Bio FAB LAB. ( greenhouse areas)

The Biodegradation domestic treatment water plant is part of the management of water cycle. Totora plants are used for the biodegradation processes to allow us to reuse the water for a second usage.

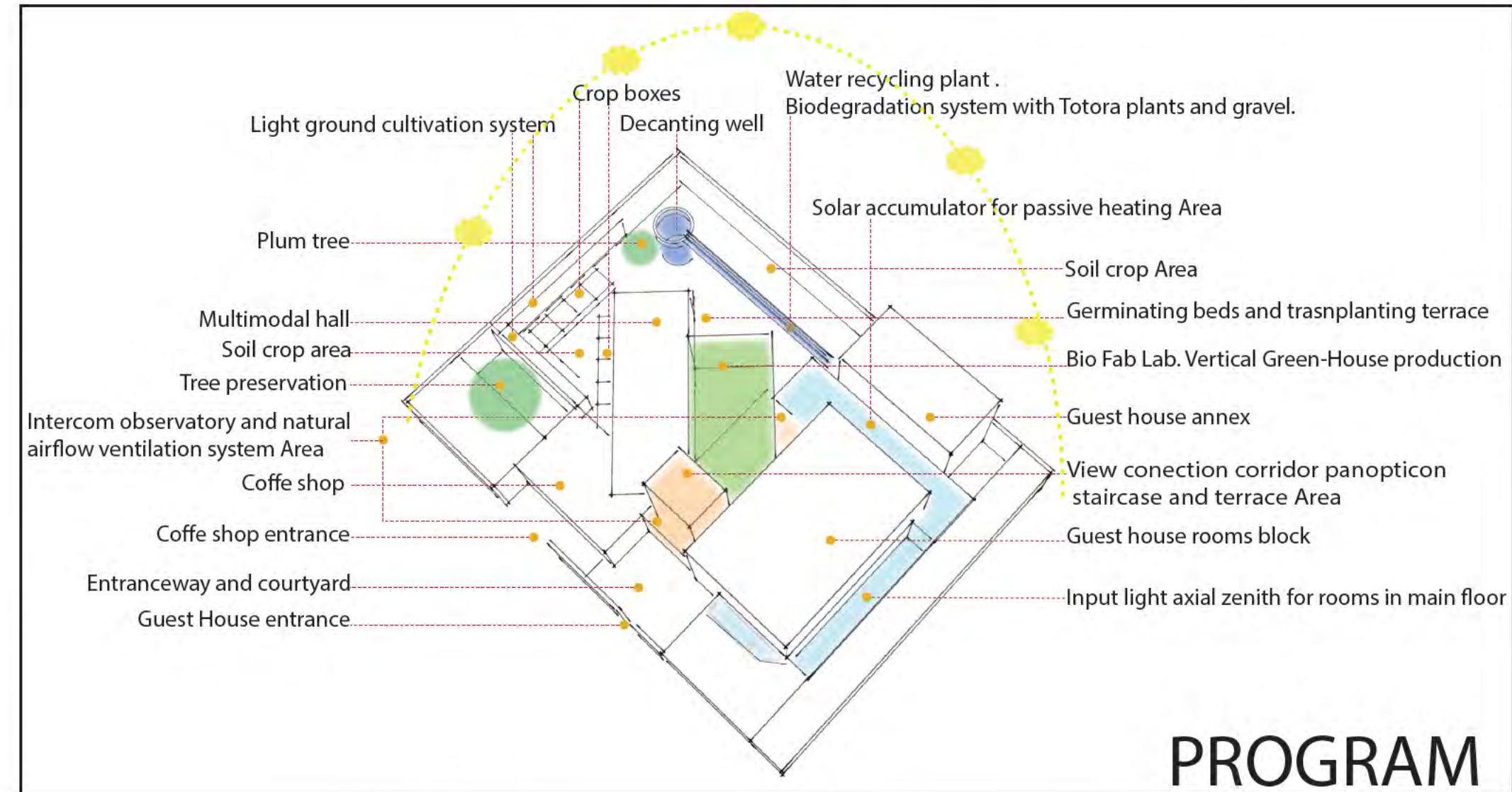
The hot water in the showers and sinks is heated using gas heaters installed on the outside of the building, and the intelligent LED and movement sensors system ensures maximum energy efficiency.

Reduce garbage production is one of the main principles for the project. The solid waste management that we have implemented have an essential impact in reducing our CO2 emissions.

The project builds a protocol for organic composting of the organic waste produced in the site.

The organic waste produced is reused in different composting methods for improving the vegetable plots production in the project.

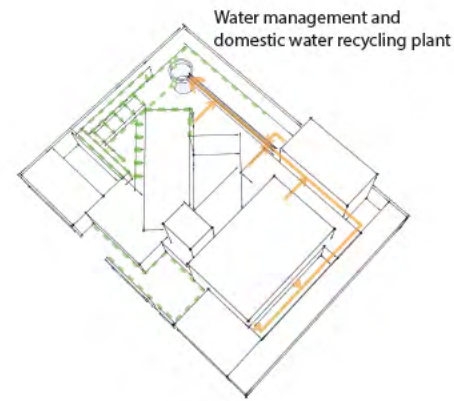
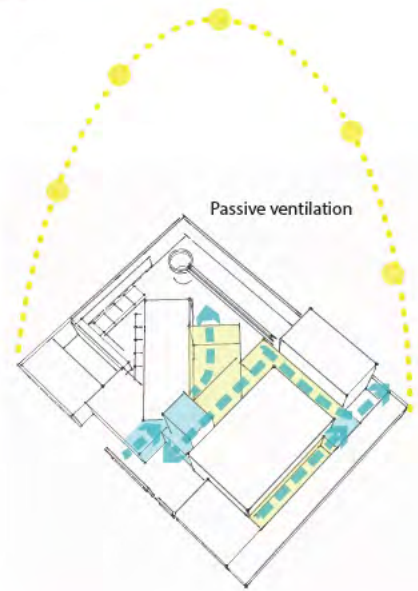
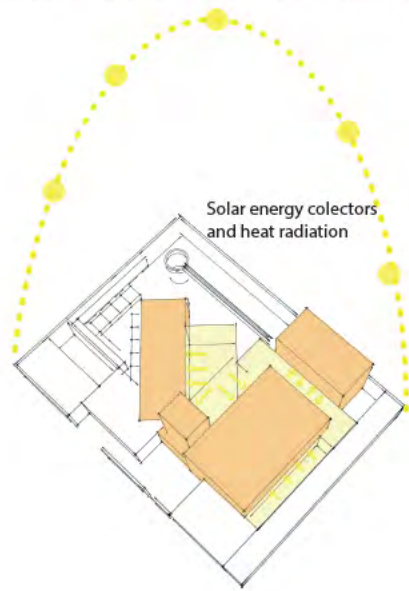
The primary approach, not to produce waste, reused the materials as much as possible.



# Sustainable living. The Biotope Boutique House.

Vida sustentable. La Bio Casa

The project in 2019



## Architectural Objectives

