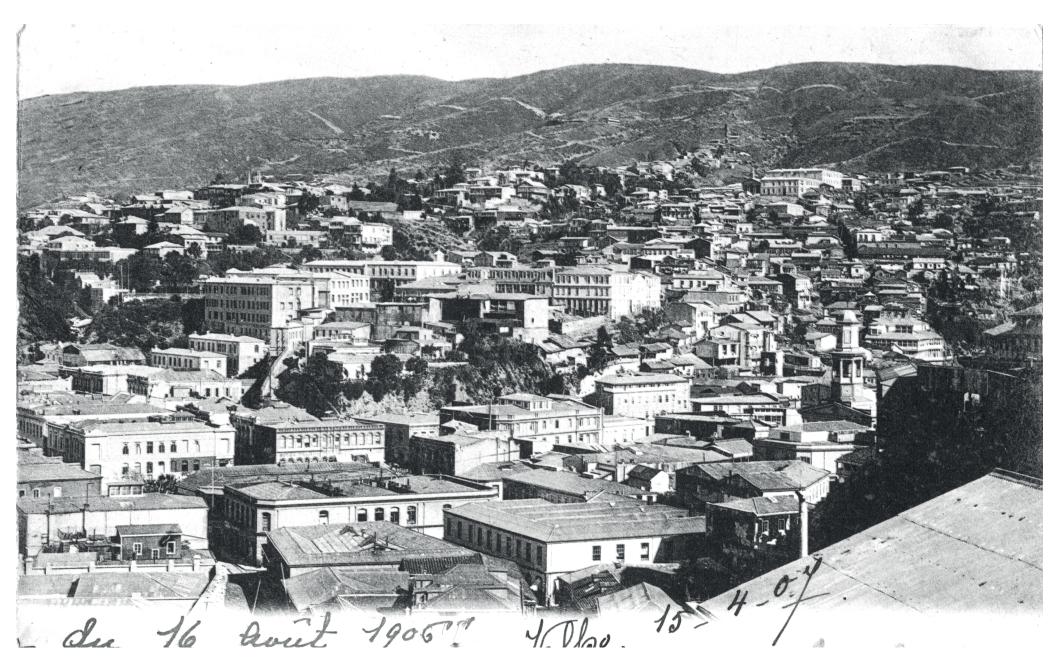
# UNFOLDING QUEBRADAS

Informality as a Method

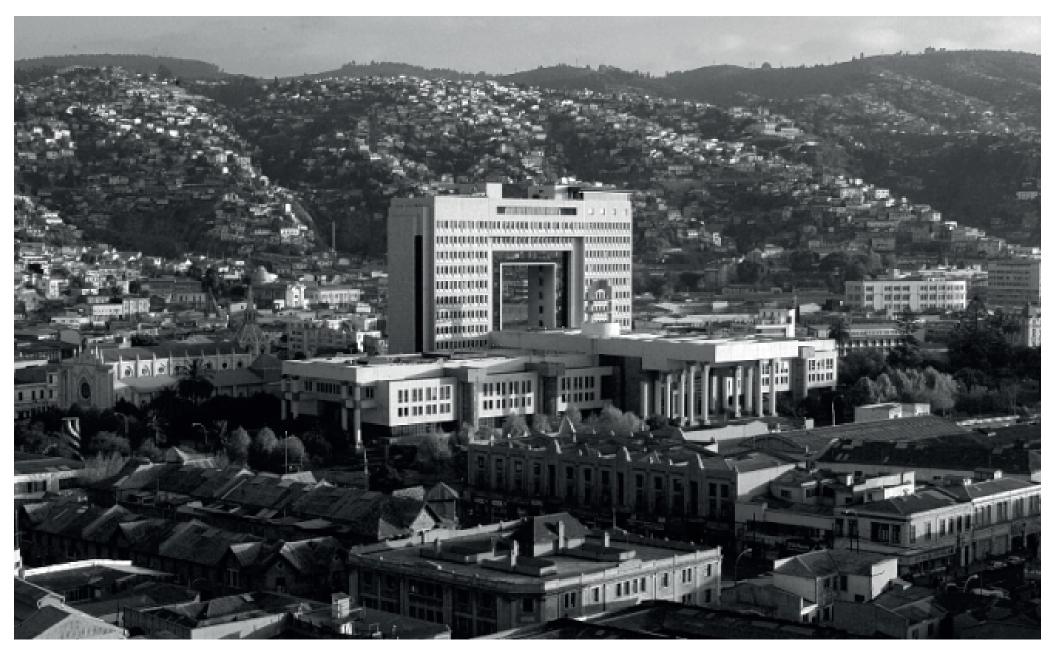
Design Tutor: Klaske Havik Research Tutor: Óscar Andrade Castro Building Technology Tutor: Pierre Jennen

Yağız Söylev - 4604156



"How to unlearn being an architect?" J.Turner

Valparaiso, 1906 Source: Archivo Familia Saavedra Yoacham



The Dichotomy of Formality and Informality

Valparaiso, 2017 Source: Epicentrochile.com



(IN)Visible Quebradas

1871 Map of Valparaiso Source: commons.wikimedia.org



"The polis, properly speaking, is not the city-state in its physical location; it is the organization of the people as it arises out of acting and speaking together, (...)It is the **space of appearance** in the widest sense of the word, namely, the space where I appear to others as others appear to me, where men exist not merely like other living or inanimate things but make their appearance explicitly."

H. Arendt, The Human Condition

When is the public space?

"Public space is always an appropriation of an existing space over legal space."

A. Blackwell, Public Space: Lost and Found



Democracy and Public Space

Augusto Pinochet and Regulations concerning the use of public spaces

"Throughout this time, the dimension of citizenship was postponed, the polis had been suspended."

A. Mayol



Democracy and Public Space

2014 Student Protests in Valparaiso

"The student movement reactivated the policy, gave oxygen and blood to a society that inhabited a damaged democracy."

A. Mayol

Source: Eliseo Fernandez, Reuters



Democracy and the State

Informal settlements on quebradas as a result of the state policies

Appropriated Space vs. Dominated Space

H. Lefebvre

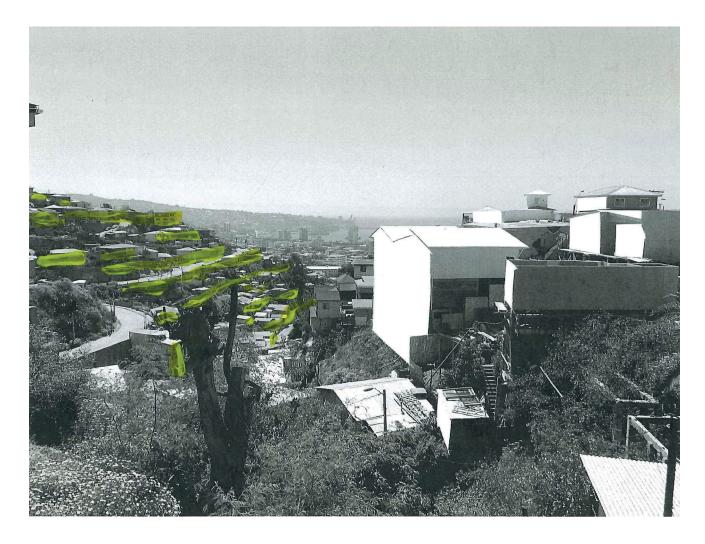


## Socio-Spatial Appropriation

The quebradas are built and managed by the inhabitants themselves.

Due to their autonomous nature, these territorial appropriations constitute their own identity, rules, spatialities, representation.

Image Source: Andrea Pino Vasquez



### Temporal Scales of Appropriation

Urban Scale: Choosing a suitable place to settle. Distribution of the land between different families. Main access

Single Family Scale: Settlers build their houses, which varies from being a single room, a mediagua or a hut. The appropriation proceeds unplanned and illegally. Neighbourhood scale: The practice of self-urbanisation of common spaces. The supply of water, electricity, sewage

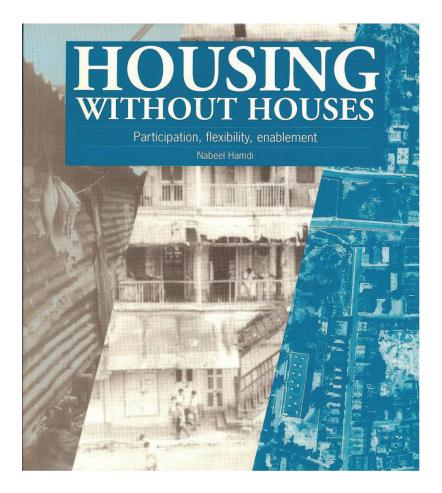
and public services are constituted in this latter stage.

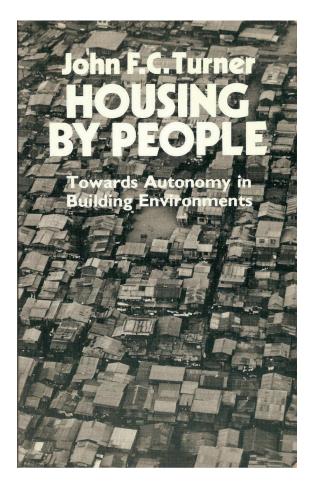
Source: Andrea Pino Vasquez



According to Andrea Pino Vasquez, the four phases of public space appropriaton in quebradas are as following: 1. Marking the place with the events of everyday life 2. Naming the place, giving identity 3. Defining the borders of the place 4. Space is being respected as a public appropriaton

Source: Andrea Pino Vasquez

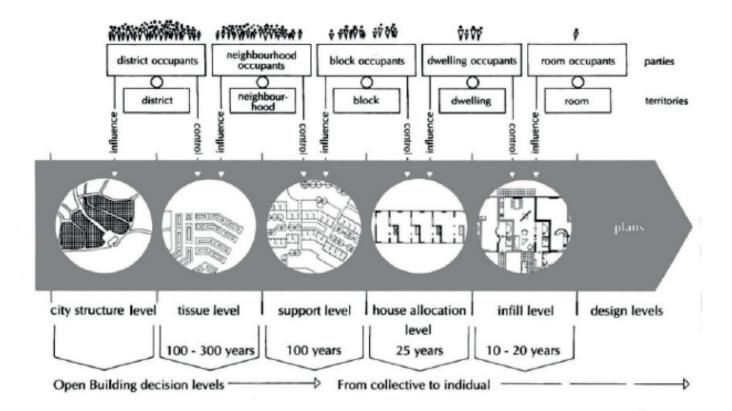




## Participatory Approaches

The advantages of participatory processes according to Nabeel Hamdi

The three laws of John Turner



## John Habraken

### Open Design Approach

Time scale in architecture Distributed decision-making

Image Source: Age van Randen

Infrastructure	Municipality MINVU Regional Government	Architecture Schools PlanCerro	Architecture Schools PlanCerro	PlanCerro
Public Spaces	Municipality SUBDERE	Architecture Schools PlanCerro Fundacion mi Parque	Municipality Architecture Schools PlanCerro JAB Fundacion mi Parque	PlanCerro JAB Fundacion mi Parque
Environment	Ministry of Environment Ministry of Agriculture Regional Government	Ministry of Environment Ministry of Agriculture Valpo Interviene Fundacion mi Parque	Valpo Interviene Fundacion mi Parque	Valpo Interviene Fundacion mi Parque
Agriculture	Ministry of Agriculture FOSIS	Ministry of Agriculture	JAB	JAB
Business	FOSIS SERCOTEC Regional Government			
	Financing	Planning	Realization	Management





Cinvit UV and CIGIDEN DRONLAB Collective Mapping

Iconoclasistas Collective Mapping





Municipality of Valparaiso and SUBDERE Mi Cancha, Mi Quincho Barbecue for football courts Football courts becoming meeting points

SERCOTEC Funds for Small Businesses





MINVU Quiero mi Barrio National Grant Program Redevelopment of neighbourhoods Fundación Mi Parque + Fundación Aldea + Junto al Barrio Collective design and collective construction of parks and green areas Providing assistance after the construction



Parque Escuela 36, Cerro Larrain Participatory Construction Activating an abandoned area by providing access



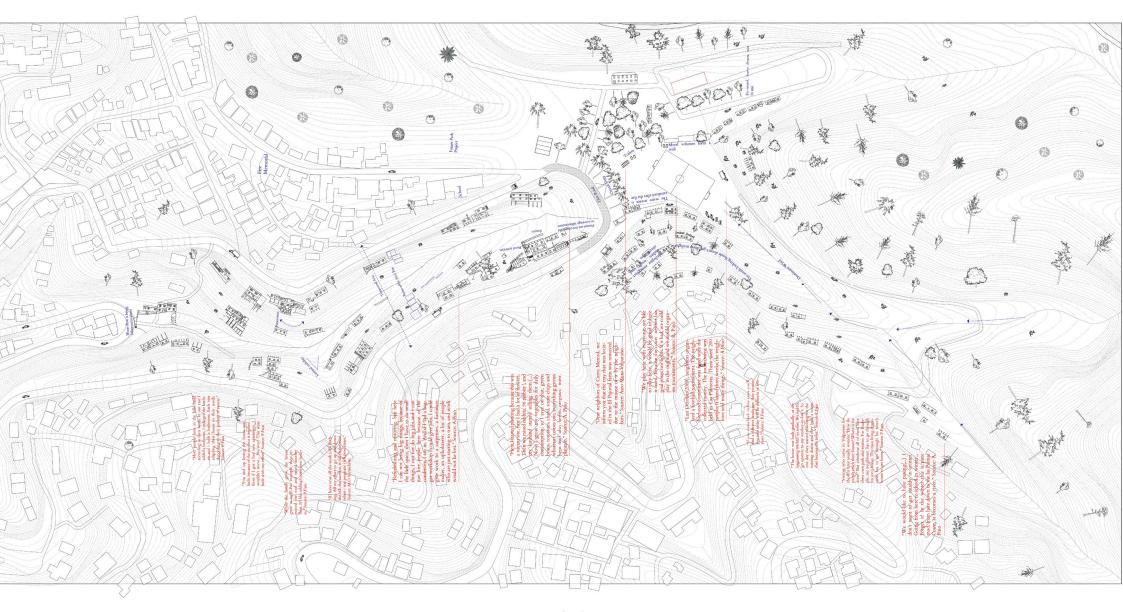


Wave scarcity and creativity studio (scs) Oslo School of Architecture and Design (AHO) Activating an abandoned building with a theater Ludoteca Minga Valpo TU Delft Constructing with the traditional construcion techniques Sharing the mutual knowledge in a damaged area



Ciudad Abierta Pontificia Universidad Católica de Valparaíso With the participation of Methods and Analysis Students "La Ronda"

Materiality and Tectonics



Interviews and Observations

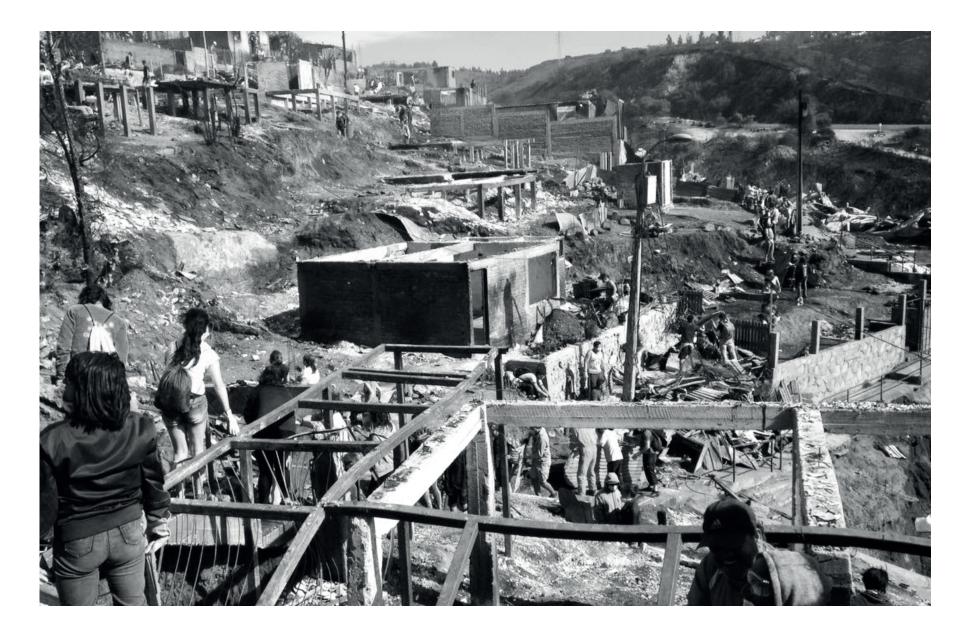




#### 2014 Fire

800 hectar area, at least 2500 houses were destroyed. The fire left 11,000 people homeless.

Image Source: t13.cl/78098



2014 Fire

The hills of Valparaiso received international support. Besides the Government organizations, NGOs and community based organizations gave active support.

Image Source: iach.cl



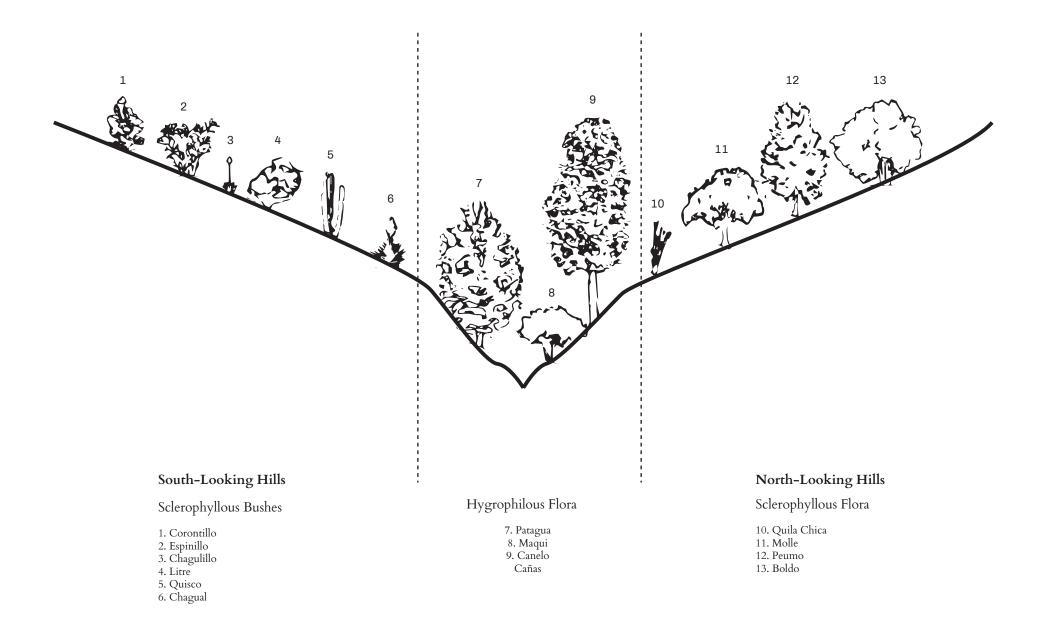


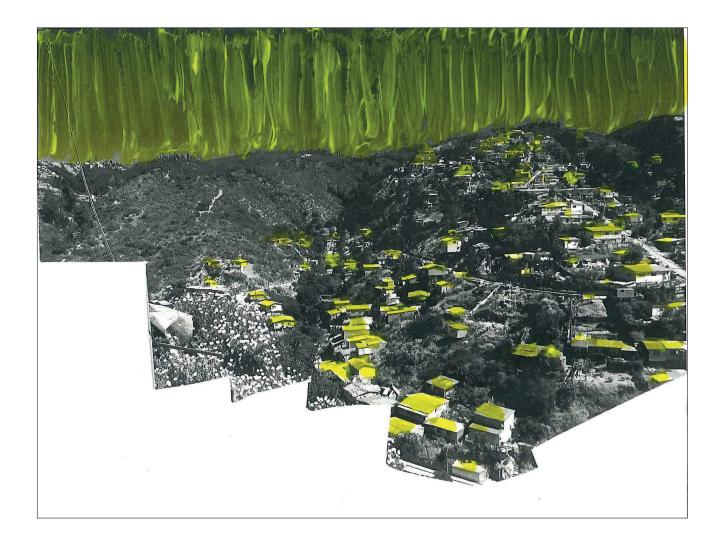
2014 Fire, The Palms Court

Above. September, 2014 Below. November 2014

Image Source: Andrea Pino Vasquez

The Flora of Quebradas





Rural habits of the inhabitants are evident in the production methods, mostly gardening and farming, and in the names given to the elements of their surrounding, such as rancho.

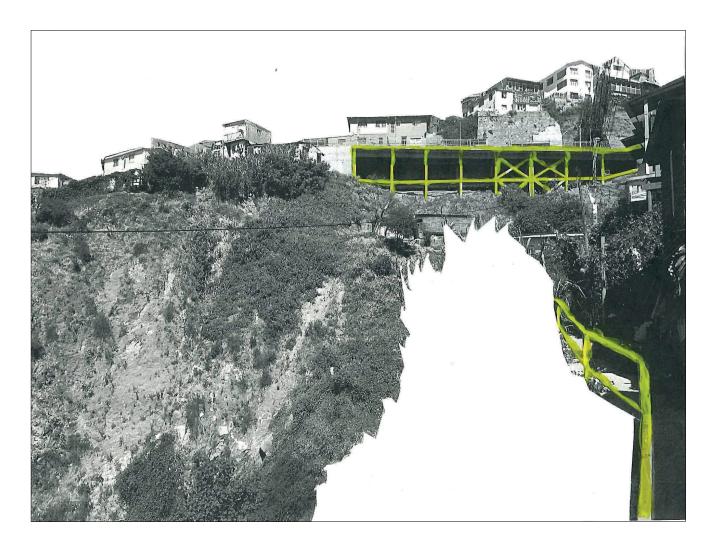


Mono-functionality of the hills and quebradas pushes the inhabitants to create an informal economy. Micro-economy of quebradas consists of agriculture and providing goods and services.

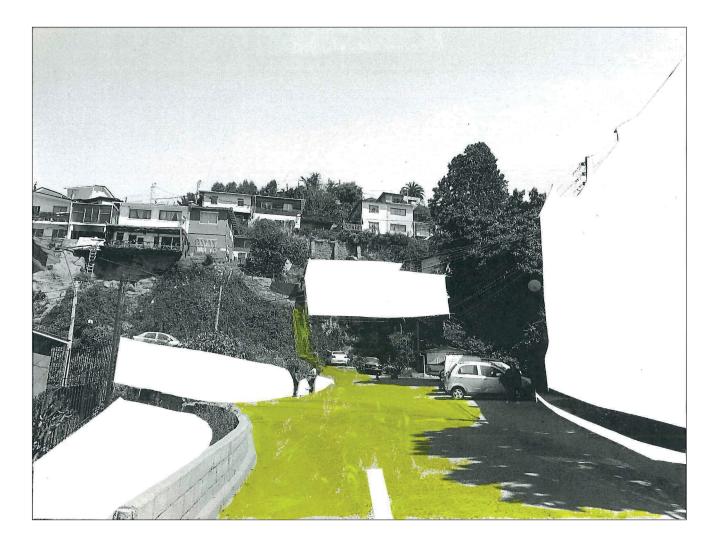


The flat part of the city is the meeting point for most of the citizens.

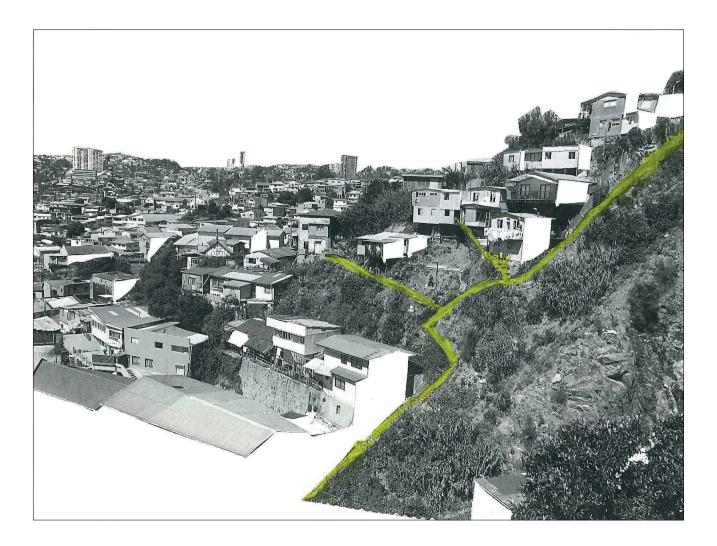
People commute daily to the *plano* for their daily needs and the city services.



The quebradas are well connected to the city thanks to the distance, the road infrastructure and the public transportation.



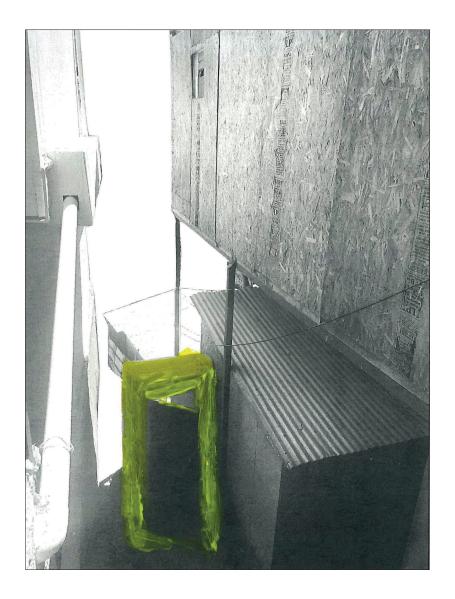
The settlers can easily reach the plan and take the "collectivo" shared taxis back to their neighbourhood. The ease of urban mobility benefits the citizens economically and time-wise.



The accessibility ceases to exist inside quebradas. The access to the houses is constituted with self-built steep staircases and dirt paths.



The lack of an infrastructure in the quebrada becomes problematic in the winter conditions, especially for the elderly and disabled.

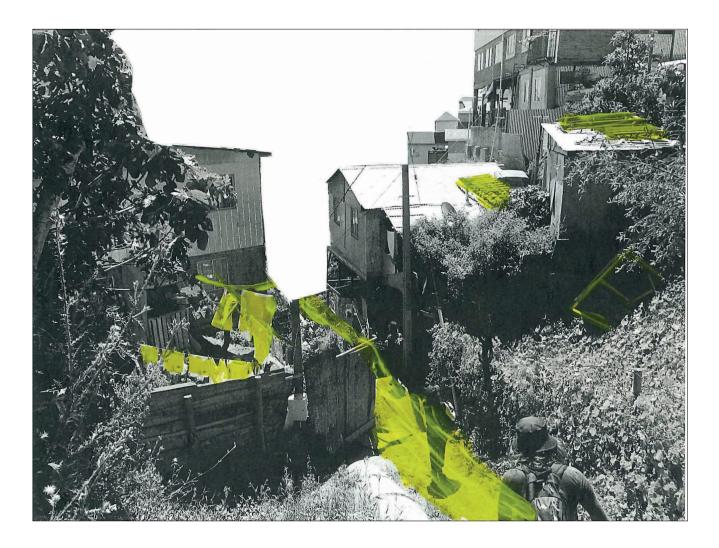


Similar to the accessibility, the basic services such as sewage, water and electricity don't arrive in these quebradas depending on the consolidation level as a result of the illegal nature of the area.



25% of the Campamentos are situated in Valparaiso Region. More than 10,000 people live in these camps.

The appropriation is unplanned, spontaneous and constantly evolving. The settlers build their houses on elevated platforms from the materials to which they have access.



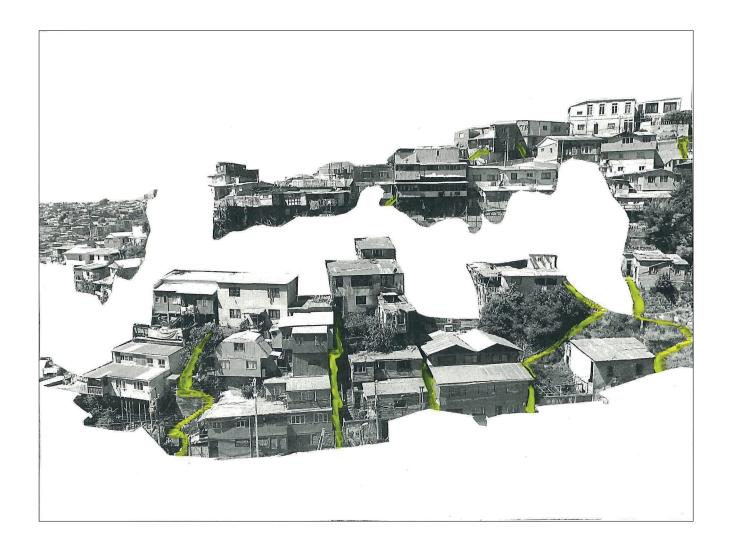
They usually start building with only single room and they expand the house according to the needs and the aspirations of the family.

The community sees their environment as a reward of their efforts and create a deep bond with it.

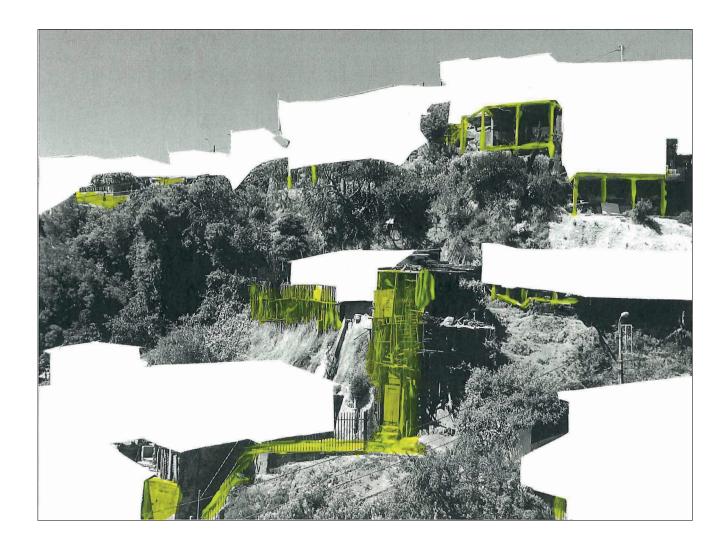
Quebrada is the identity of its dwellers.



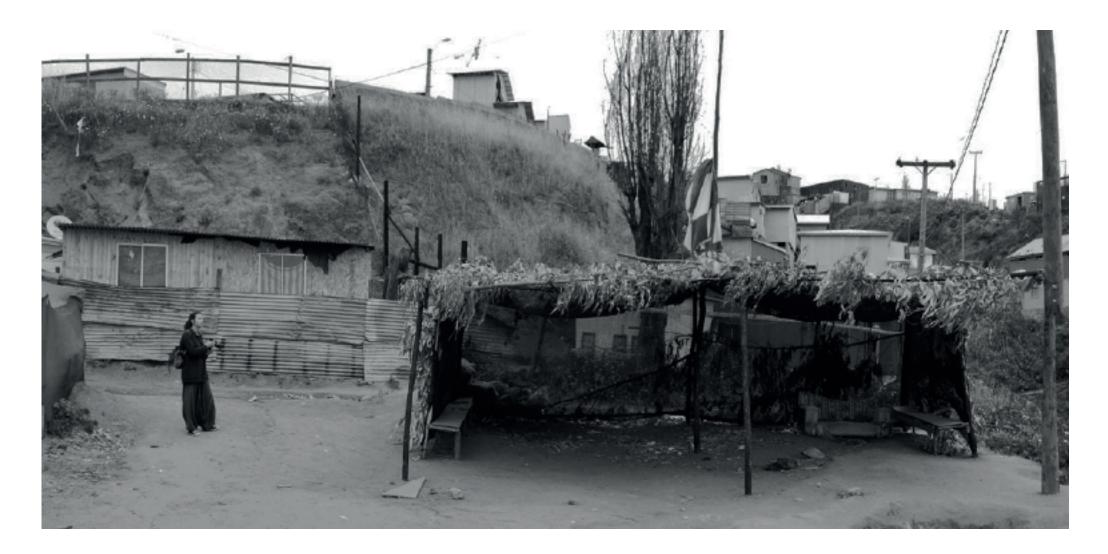
Apart from the disadvantages, having a garden, relatively big houses, good relationship with the community, closeness to the city center are the significant features of these settlements, which is missing, for example, in the social house developments.



Due to the limited resources, inhabitants tend to satisfy their needs primarily. This results in the lack of common spaces.



"Cada cual pela su chancho solo."



"Public space expresses democracy it territorial dimension. It is the space of collective use in which the citizens feel free and equal. (...) It shows its diversity and its contradictions and expresses their demands and their conflict. In public space the collective memory is built."

J. Borja

Image Source: Andrea Pino Vasquez

By acknowledging the rural, spontaneous character of these settlements and embracing the appropriations over which the designer has no control, the project aims to

-increase the resilience by revitalizing the landscape,

-to empower the inhabitants by giving the means of production,

-to improve the living standards by providing accessibility and infrastructure with the freedom of appropriation

-to strengthen the community and encourage the local participation by involving them in the process.



**A - Urban Scale** *Actor: Architect* 

Where to intervene? Why Rinconada? -Affected by the 2014 fire -In healing process -Mutual knowledge in the area -Low consolidation -Urban/rural threshold

**B - Single Family Scale** *Actor: Inhabitants* 

No intervention

**C - Neighbourhood Scale** *Actor: Architect, Inhabitants, Architecture Students, Government, NGO's* 

-Reading, Analysis -Collective Mapping -Collective Construction -Assistance and Training

This stage of the strategy consists of eight interventions: 1. Landscape Revitalization 2. Community Center - The Tribune 3. Community Gardens 4. Pathways (Rural) 5. Ex-Motel Competition 6. The Bridge - Market and Workshop 7. Pathways (Ruins) 8. Panoramic Spot Competition

The stages are ordered according to the starting dates of the interventions.

**D - Appropriation and Management** *Actor: Inhabitants, NGO's* 

-Ongoing process -NGO asssitance and training -New volumes, functions and houses

The appropriation which is shown in the image depicts one possible appropriation scenario out of many.



**1 - Landscape Revitalization** *Actor: Government, NGO's, Inhabitants Time: 6-12 months* 

Financing: Ministry of Environment, Ministry of Agriculture, Regional Government

Planning: Ministry of Environment, Ministry of Agricultur, Valpo Interviene, Fundacion mi Parque, Inhabitants

Realization & Management: Valpo Interviene, Fundacion mi Parque, Inhabitants



**2 - Community Center - The Tribune** Actor: Architect, Government, NGO's, Students, Inhabitants Time: 3-6 months

Financing: Municipality, Subdere (Mi Quincho, Mi Cancha)

Planning: Architect

Realization: *Students, Inhabitants* 

Management: Inhabitants

While the construction of the pathway continues, only the roof of the tribune is constructed to house the tools and materials, as well as the production.



**3 - Community Gardens** Actor: Architect, NGO's, Students, Inhabitants Time: 1 month

Financing: Ministry of Agriculture

Planning: Architect

Realization & Management: FOSIS, Fundacion mi Parque, Inhabitants



**4 - Pathways (Rural)** Actor: Architect, Government, NGO's, Students, Inhabitants Time: 3-6 months

Financing: *MINVU*, *Municipality*, *FOSIS* 

Planning: Architect, Students, Inhabitans

Realization: Students, Inhabitants

Management: FOSIS, Inhabitants



**5 - Ex-Motel Competititon** Actor: Government, NGO's, Inhabitants Time: 12-36 months

Financing: MINVU, Municipality

Planning: Competition by PlanCerro

Realization: *Municipality, PlanCerro,* Inhabitants

Management: PlanCerro, Inhabitants

The competition deals with the public spaces in the area and tries to open up the ex-motel area which was affected by the 2014 fire to the public use.



**6 - The Bridge - Market and Workshop** Actor: Architect, Government, NGO's, Students, Inhabitants Time: 6-12 months

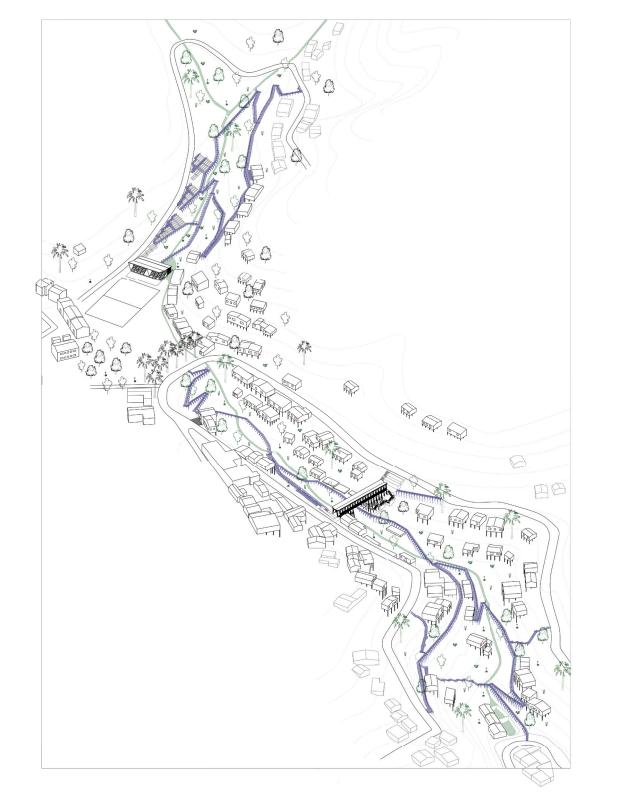
Financing: Municipality, Subdere

Planning: Architect

Realization: Government, Students, Inhabitants

Management: Inhabitants

After the construction in the upper part is done, the workshop is moved beneath the bridge. The construction of the pathways in the lower part are managed from this workshop.



7 **- Pathways (Ruins)** Actor: Architect, Government, NGO's, Students, Inhabitants Time: 6-9 months

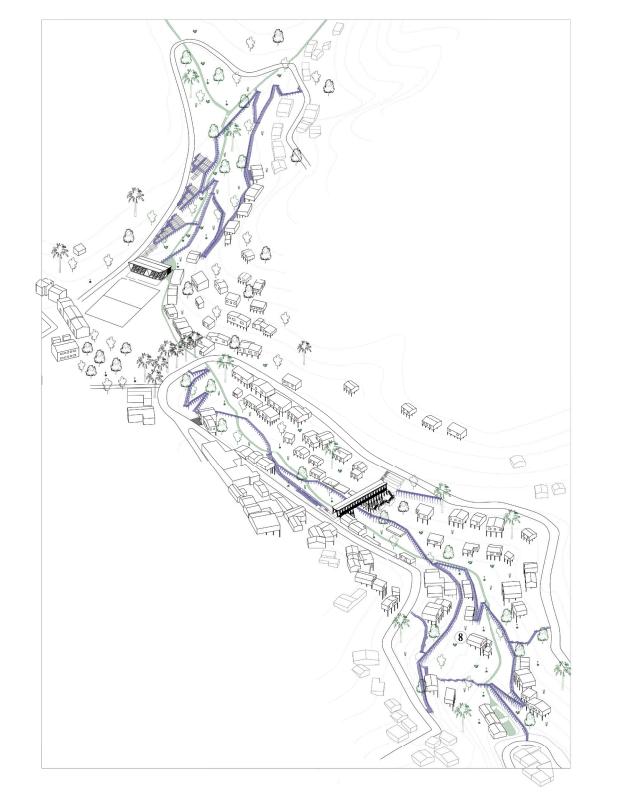
Financing: *MINVU*, *Municipality*, *Sercotec* 

Planning: Architect, Students, Inhabitans

Realization: Students, Inhabitants

Management: Sercotec, Inhabitants

The aim is to connect and activate the ruins. Sercotec provides funds for small businesses along the pathway.



8 - Panoramic Competititon Actor: Government, NGO's, Inhabitants Time: 12-36 months

Financing: MINVU, Municipality

Planning: Competition by JAB

Realization: *Municipality, JAB, Inhabitants* 

Management: JAB, Inhabitants

The competition seeks proposals which deal with the notions of publicity in the informal context and aims to provide a public building which attracts a wider attention from the city.



**A - Urban Scale** *Actor: Architect* 

Where to intervene? Why Rinconada? -Affected by the 2014 fire -In healing process -Mutual knowledge in the area -Low consolidation -Urban/rural threshold

**B - Single Family Scale** *Actor: Inhabitants* 

No intervention

**C - Neighbourhood Scale** *Actor: Architect, Inhabitants, Architecture Students, Government, NGO's* 

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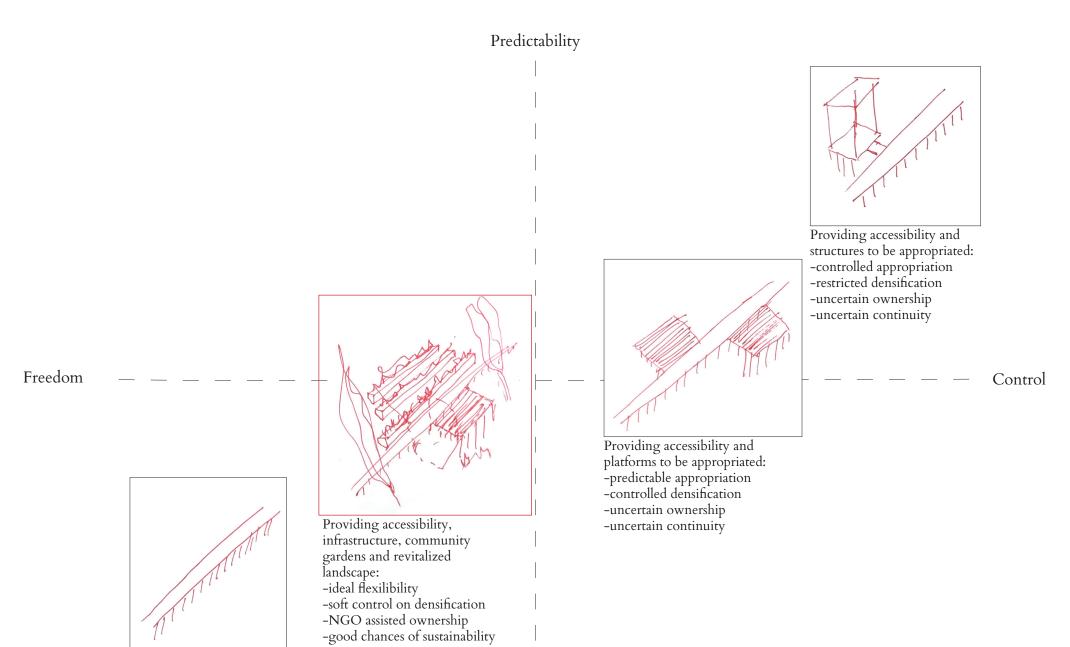
	Financing	Planning	Realization	Management
Business	FOSIS SERCOTEC Regional Government			
Agriculture	Ministry of Agriculture FOSIS	Ministry of Agriculture	JAB	JAB
Environment	Ministry of Environment Ministry of Agriculture Regional Government	Ministry of Environment Ministry of Agriculture Valpo Interviene Fundacion mi Parque	Valpo Interviene Fundacion mi Parque	Valpo Interviene Fundacion mi Parque
Public Spaces	Municipality SUBDERE	Architecture Schools PlanCerro Fundacion mi Parque	Municipality Architecture Schools PlanCerro JAB Fundacion mi Parque	PlanCerro JAB Fundacion mi Parque
Infrastructure	Municipality MINVU Regional Government	Architecture Schools PlanCerro	Architecture Schools PlanCerro	PlanCerro

Stakeholders and Organizations

Government NGO Other

Infrastructure		Establishing <b>the</b> <b>pathways</b> in the rural area		Establishing <b>the</b> <b>pathways</b> in the lower part	Self-management	
Public Spaces	The realizatio the commun center in la Cancha	ity			Appropriation and self-management	
	las Palmas		The Mote	el Competition		
				Panoramic Competition		
Environment	<b>Revitalizing the landsca</b> through forestation and improving the water stream	111	realization of <b>the bridge</b> where the market and he workshop is situated	2	Self-management	
Agriculture	Commur Garden				Appropriation and self-management	
Business			small busines	provides funds for ses to activate the of the fire	Appropriation and self-management	
	0-12 months	12-24 mont	ns 24-3	6 months	36 months-ongoing	

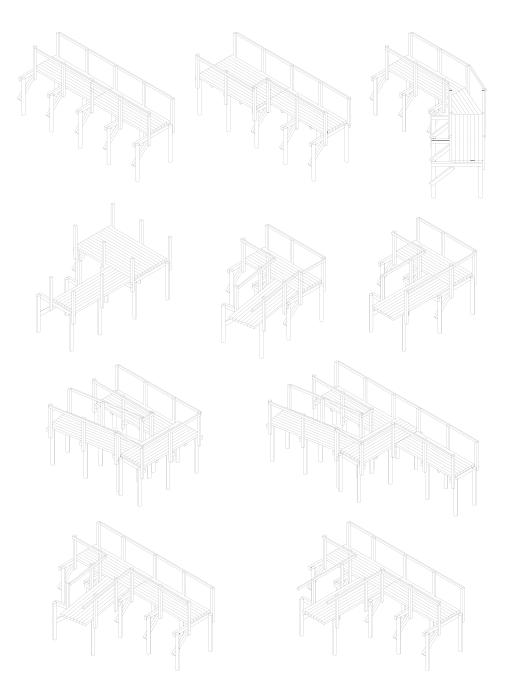
Architectural Intervention Strategy



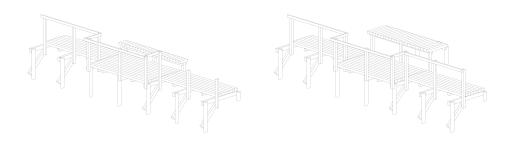
Providing only accesibility: -unpredictable -risk of high densification -no ownership problem -problems of sustainability

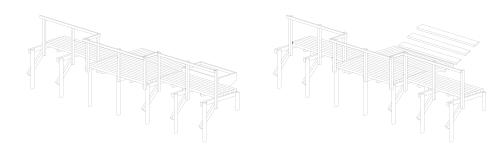
Flexibility

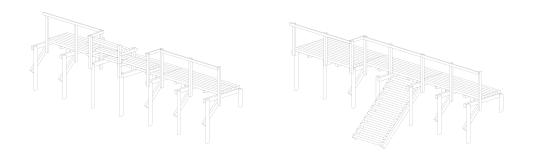




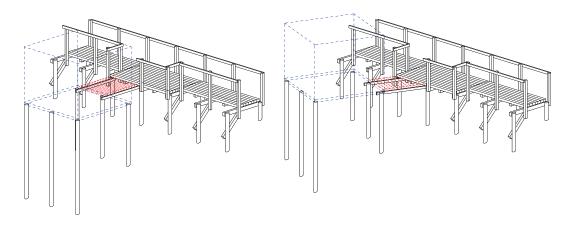
Pathway Variations

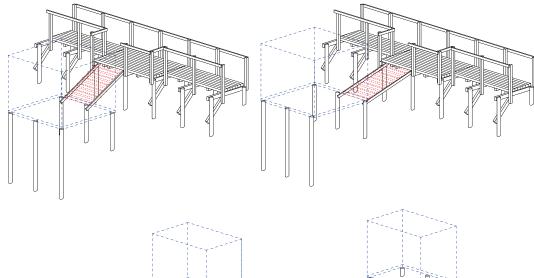


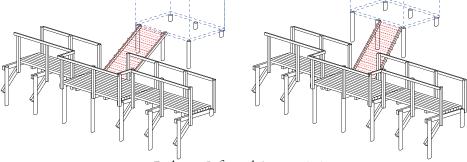




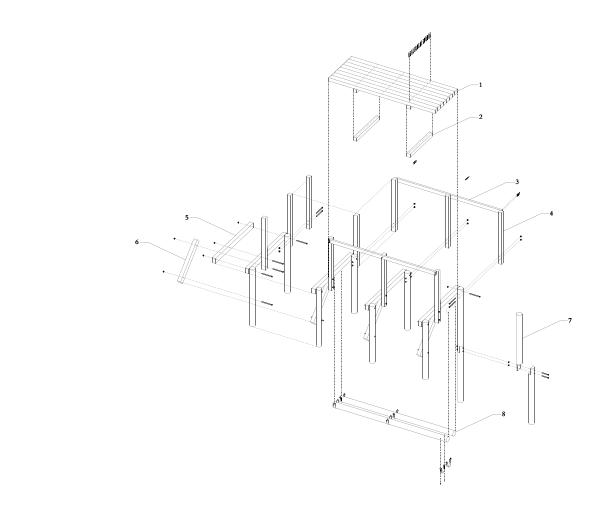
Pathway Public Appropriations

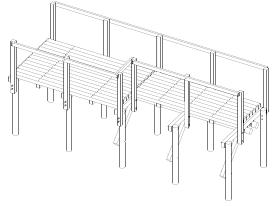






Pathway Informal Appropriations





1 Pathway Plank - Sawn Timber - 15x10x320cm

2 Pathway Stabilizer- Sawn Timber - Leftover Pieces

**3** Balustrade - Sawn Timber - 10x5x320cm

4 Balustrade Structure - Sawn Timber - 10x10x160cm

5 Pathway Beam- Sawn Timber - 15x10x320cm

6 Bracing Element - Sawn Timber - 15x10x120cm

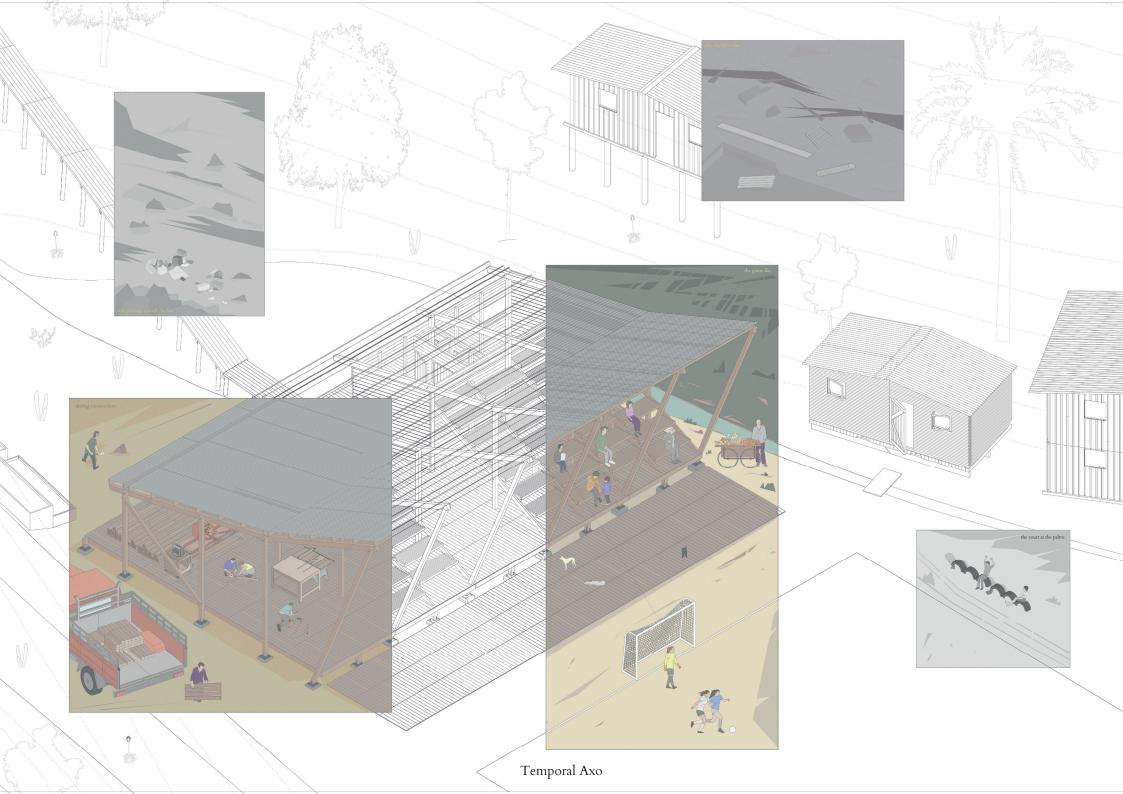
7 Foundation Pile - Impregnated Post - Ø15cm

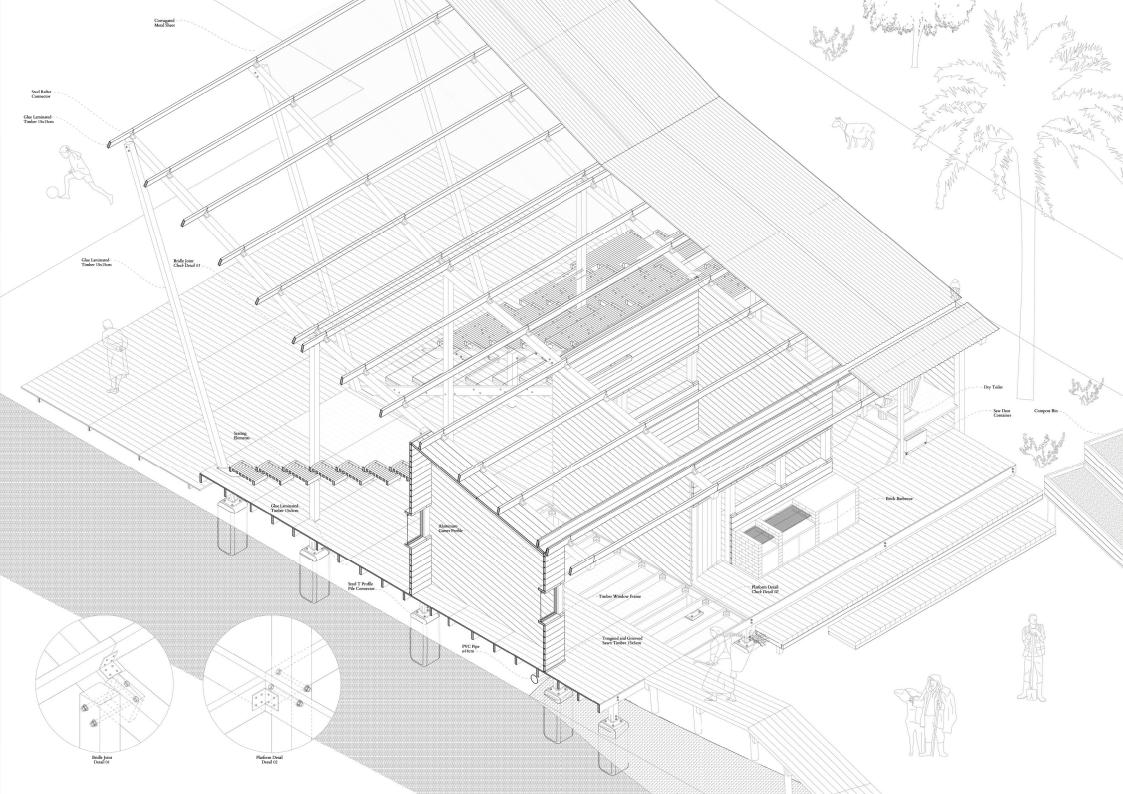
8 Water Pipes - PVC - Ø20cm

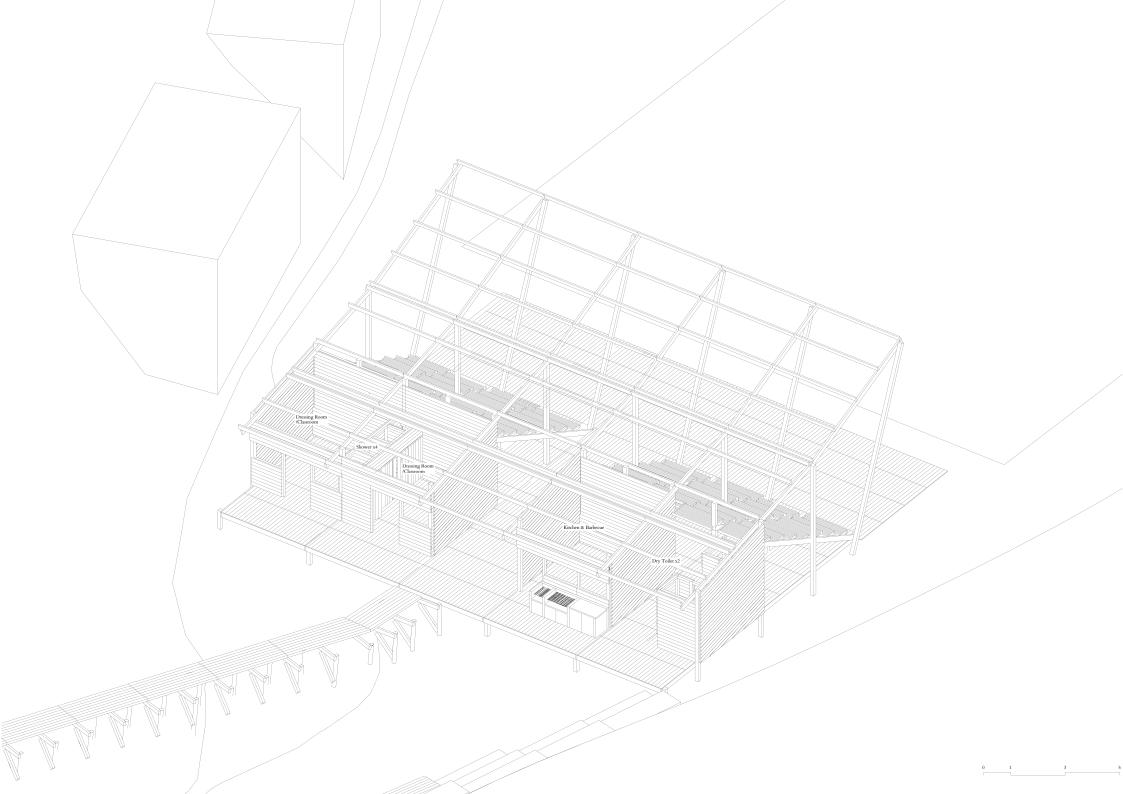




The Pathway



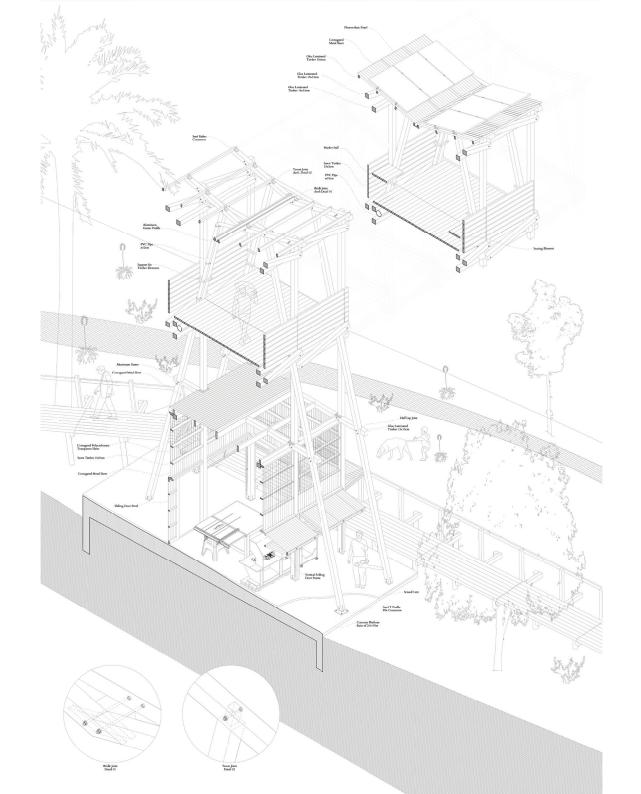


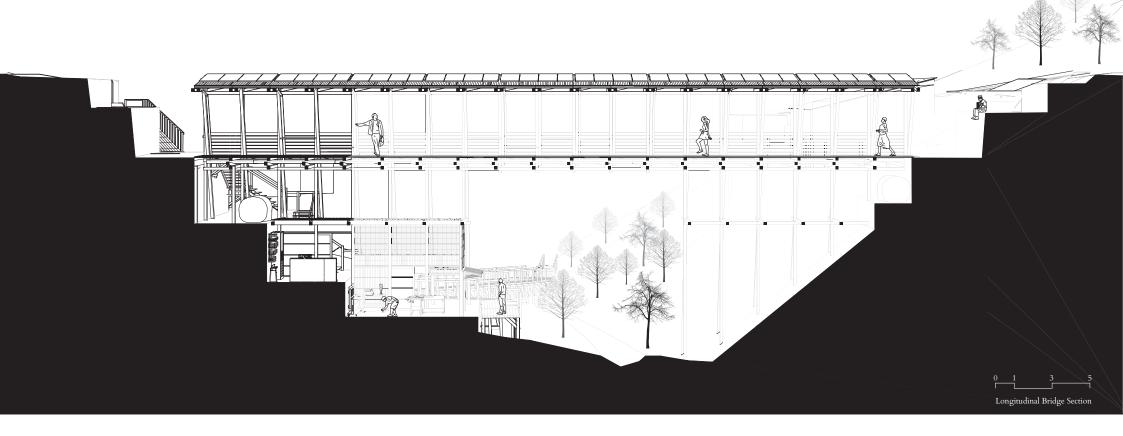




The Tribune and Community Gardens

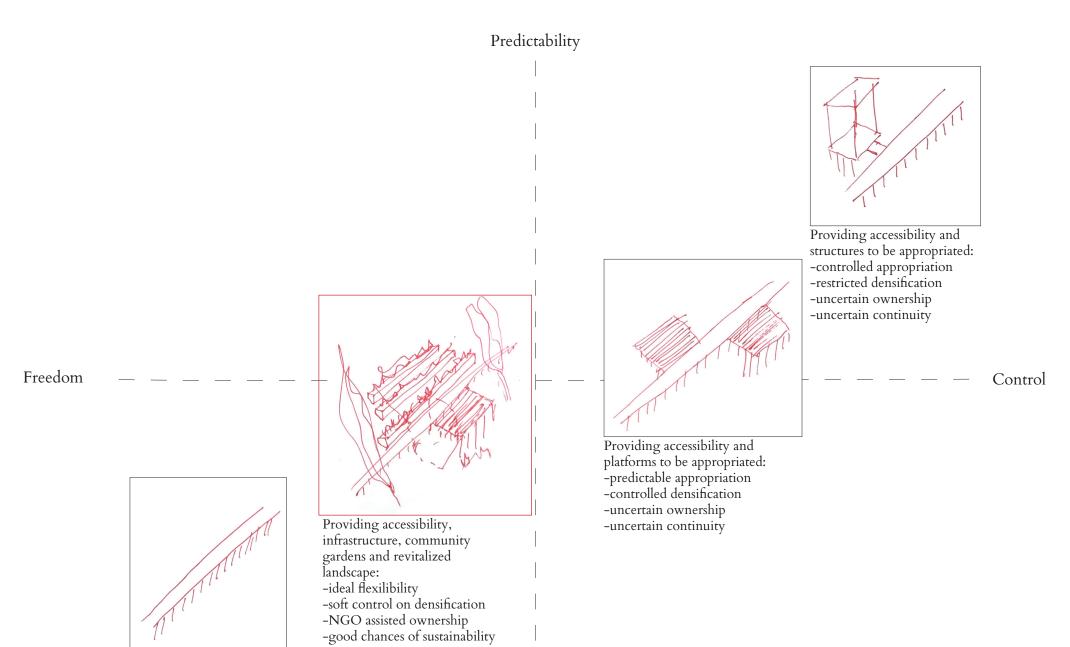








The Bridge and Ruins



Providing only accesibility: -unpredictable -risk of high densification -no ownership problem -problems of sustainability

Flexibility