P5 Urbanism Graduation Project:
Socioeconomic and Spatial integration strategies for La Victoria in Santiago De Chile

Public Space Network

Anouk Distelbrink
June 30th, 2009
Urban Asymmetries Studio
DSD-TU Delft
Structure of the presentation

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
1 Introduction
Randstad - Santiago Metropolitan region

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions

7 million inhabitants
6.4 million inhabitants
3 scales of the project
Municipality Pedro Aquirre Cerda

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions

PAC Municipality: 114,000 inhabitants
La Victoria: 21,000 inhabitants
Analysis PAC

Accessibility

Morphology

Land use

Green spaces

Continuity east-west

Continuity north-south

Borders and morphological shifts

Urban fragments

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
PAC: 4 relational strategies
Problem statement
La Victoria
La Victoria in Pedro Aquirre Cerda
Problem statement La Victoria

• Island effect
• High household index
• Drug dealing
• Unsafe streets
• High density
• Lack of local modes of production
• Low social mobility
• Low land values
• Old building stock
Potentials La Victoria

- History
- Land ownership
- Social cohesion
- Organizational capacities
- Central location
- Strong urban structure
Empirical research: needs of the community

- Support self-organizational capacities of community
- Increased entertainment and leisure facilities for the youth
- Improved public safety
- Preservation and revitalization of townscape
- Preservation of social cohesion
- Improved connectivity and mobility on district scale
Hypothesis

A SOCIOECONOMIC AND SPATIAL INTEGRATION STRATEGY

- Permeation
- Network of Public Space
- Endogenous development
- Community involvement
Research questions

• Sustainable public space network
• Exogenous and endogenous forces
• Community empowerment strategies
• Exportable elements
3 Analysis
# Methodology

## 1. Introduction

## 2. Problem statement

## 3. Analysis

## 4. Strategy

## 5. Feasibility

## 6. Conclusions
Analysis - Connectivity
Conclusions and potentials per street

Avenida 2 de Abril

Conclusions

Potential

4 Strategy
Integration strategy for La Victoria

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Strategy on public space
Traffic system

Existing hierarchy

100 km/h

New hierarchy

100 km/h

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Characterisation of streets

Typological profiles

community street

park drive
## Relational scheme: towards design interventions on public space

<table>
<thead>
<tr>
<th>STREETS</th>
<th>SPATIAL POTENTIALS</th>
<th>SPATIAL CHARGE OF USE</th>
<th>SPATIAL DEMANDS (use)</th>
<th>PROGRAM</th>
<th>HIERARCHY (traffic system)</th>
<th>CHARACTER (quality of use)</th>
<th>DESIGN INTERVENTIONS on public space</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVENIDA LA FERIA</td>
<td>Child and drug dealers are present during the week</td>
<td>Safety: more entrances, more nodes</td>
<td>Trade and production (foot side)</td>
<td>Divided road 50 km/hr</td>
<td>Infrastructure (minor)</td>
<td>Transformation of street profile into a pedestrian zone</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Transformation of existing open spaces into pedestrian zones</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Creation of new collective public space</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Transformation of existing open spaces into pedestrian zones</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Creation of new collective public space</td>
</tr>
</tbody>
</table>

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Profile A - Parkdrive Maipu

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Relational strategies
Relational strategies
Connecting San Joaquin and La Victoria

Current situation
Relational strategies
Connecting San Joaquin and La Victoria

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Relational strategies
Connecting San Joaquin and La Victoria
Relational strategies
Connecting San Joaquin and La Victoria
Relational strategies
Connecting Lo Valledor and La Victoria
Relational strategies
Connecting Lo Valledor and La Victoria
Relational strategies

Connecting Lo Valledor and La Victoria
Relational strategies
Connecting Lo Valledor and La Victoria
Relational strategies
Connecting Lo Valledor and La Victoria
5 Feasibility
Case studies

Elemental
Economical housing projects (New built)
Lo Espejo, Santiago de Chile 2007 – Alejandro Aravena

Completion: End 2007
Owner: participants
Involved actors: state, participants.
Architect: ELEMENTAL
State subsidy: $10,000 (for land, building materials, construction)
Financing completion by the participants themselves (auto-construction)
Project size: 30 families/1568 m²
351 inhabitants per hectare
Dwelling size 1: 60,5 m² (36m² initial + 24m² enlargement)
Dwelling size 2: 68m² (36m² initial + 32m² enlargement)
Case studies

Getting gardeners the plants, materials & volunteer help they need to manage active, vibrant community gardens

Green Guerillas
New York Community gardens

Activities
- Creating new community gardens
- improving gardens
- youth gardening
- help gardeners organize
- education programs

Involved actors
- GreenGuerillas Foundation
- government
- individual donators
- individual investors
- members/participants
Financial model

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Financial model

STATE/MUNICIPALITY

- Infrastructure
- Public space
- + Public transport Company Transantiago
- Bus routes
- Bus stops

PARTICIPANTS

- Elemental Model
- CPC Collective Private Clientship - (cooperative)
- CPC Community Participation Programs

MICRO-CREDIT

- Solidarity lending
- Loans
- Power
- Foundation

- Financial model
- $10,000
- 100%
Phasing
Phasing plan

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
<table>
<thead>
<tr>
<th>Object</th>
<th>Prize per unit</th>
<th>Quantity</th>
<th>Total prize</th>
<th>On the account of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garbage bin</td>
<td>€ 50</td>
<td>3</td>
<td>€ 150</td>
<td>Community/CPC 2 de Abril</td>
</tr>
<tr>
<td>Plant construction</td>
<td>€ 20</td>
<td>pc 27</td>
<td>€ 540</td>
<td>Community</td>
</tr>
<tr>
<td>Tree type A</td>
<td>€ 80</td>
<td>pc 14</td>
<td>€ 1.120</td>
<td>Municipality</td>
</tr>
<tr>
<td>Tree type B</td>
<td>€ 40</td>
<td>pc 36</td>
<td>€ 1.440</td>
<td>Municipality</td>
</tr>
<tr>
<td>Street lightning type A</td>
<td>€ 600</td>
<td>pc 27</td>
<td>€ 16.200</td>
<td>Municipality</td>
</tr>
<tr>
<td>Street lightning type B</td>
<td>€ 800</td>
<td>pc 9</td>
<td>€ 7.200</td>
<td>Municipality</td>
</tr>
<tr>
<td>Market curtain</td>
<td>€ 10</td>
<td>m2 500</td>
<td>€ 5.000</td>
<td>Community/CPC 2 de Abril</td>
</tr>
<tr>
<td>Bench</td>
<td>€ 300</td>
<td>pc 8</td>
<td>€ 2.400</td>
<td>Community</td>
</tr>
<tr>
<td>Concrete tile</td>
<td>€ 70</td>
<td>m2 1200</td>
<td>€ 84.000</td>
<td>Ministry of Housing</td>
</tr>
<tr>
<td>Curbstone 50x250x1000</td>
<td>€ 25</td>
<td>m 250</td>
<td>€ 6.250</td>
<td>Ministry of Housing</td>
</tr>
<tr>
<td>Asphalt(incl. building)</td>
<td>€ 50</td>
<td>m2 1300</td>
<td>€ 65.000</td>
<td>Ministry of Housing</td>
</tr>
</tbody>
</table>

**TOTAL INVESTMENT:** € 188,610

Building of public space Avenida 2 de Abril; 110 stretching meters; to be taken as an average for the complete street (stretching 660 m)
Generator project 1
Generator project 1
Generator project 2

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Generator project 2
Phase 3

- Railway crossing at Av. 2 de Abril
- Road connection Mariquina - Genova district
- Building transformations and additions in avi station
- Building transformation, Av. Departamental
- Cross-connections 2 de Abril & Mariquina
- Building transformations and additions in San Joaquin-north
- Building additions 1 de Mayo (south)
- Redevelopment of Mariquina
- Building transformations along Villa Sur
- Transformation of PS railway park south
- Transformation of public space P. Subercaseaux
- Reprofiling of 30 de Octubre
- Crossing 30 de Oct & La Feria
- Building additions Av. Maipu
- Building transformations along La Feria
- Disconnection Ramona Parra
- Building transformations along 30 de Octubre
- Building transformations Av. La Feria
- Transformation of PS 1 de Mayo
- Transformation of PS railway park north
- North-west Gate at Mariquina
- North-east Gate at 2 de Abril

PHASE 1 PHASE 2 PHASE 3 PHASE 4 PHASE 5
2012 2015 2020 2025 2030 2035

GENERATOR PROJECT 1
GENERATOR PROJECT 2
GENERATOR PROJECT 3
GENERATOR PROJECT 4
GENERATOR PROJECT 5

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Generator project 3
Phase 4

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Generator project 4
Phase 5

- Railway crossing at Av. 2 de Abril
- Road connections: Mariquina, Villa Sur-1 Oriente
- New connection: San Joaquin-north
- Road connection: Maiquina - Alfredo Llobos
- Cross-connections: 2 de Abril & Mariquina
- Building transformations & additions in San Joaquin-north
- Building transformations & additions in 2 de Abril
- Building additions in Mariquina
- Redevelopment of Mariquina
- Building transformations along Villa Sur
- Disconnection: Ramona Parra
- Building transformations along 30 de Octubre
- Transformation of PS railway park south
- Transformation of public space: P. Subercaseaux
- Transformation of PS 1 de Mayo
- Refocusing of 30 de Oct
- Building transformations Av. Maipu
- Building transformations along 2 de Abril
- Building additions along La Feria
- North-west Gate at Mariquina
- North-east Gate at 2 de Abril
- New bus routes & positioning stops

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Generator project 5
6 Conclusions
Testing the strategy

Connectivity - current situation

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Testing the strategy

Connectivity - new situation

Avenida 2 de Abril
Testing the strategy

Current situation

Morphology

Modes of Production

Public space
Testing the strategy

New situation

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
Community participation
Community participation

PROYECTO ESPACIO PÚBLICO
TALLER DICIEMBRE 2009
RECOGE TU DIARIO DE INFORMACIÓN EN NEUSTRA SEDE SOCIAL

1. Introduction
2. Problem statement
3. Analysis
4. Strategy
5. Feasibility
6. Conclusions
La Victoria

Public Space Network