MAKING WASTELANDS PRODUCTIVE

Introduction

Site Conditions

General Ambition and Strategy

Spatial Organization
- Relational strategy
- Main circulation principle
- Lifted Street
- Housing related to production

Processes of Production
- Urban Agriculture
- Workshops

Socioeconomical Structure
- Cooperative structure
- Financing and landownership
- Numerical model

Temporalities

Design Sections
- Design Section 1
- Design Section 2

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Urban Asymmetries - Mexico
TU Delft - July 2009
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[Site Conditions]
Urban voids

- uneven geographical development
- lack of unitary planning between different political entities
- including roadsides, land under high-voltage electrical towers and wastelands.
- abandoned areas are occupied by irregular settlements
Disruptions of the everyday life

- federal highway and railroad dislocate the urban fabrics with insufficient pedestrian and car connections

- heavy traffic caused by centralization of commercial activities and dependence to the city center
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[General Ambition and Strategy]

Providing both spatial as well as socio-economic structure

Process based structure

Empowering local production and education

Cooperative structure

Rural within the Urban

Interweaving segregated urban fabrics
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[ Spatial Organization ]

- Relational strategy

Pedestrian connections between segregated urban fabrics

- Lifted Street

- Spatial relation housing and production

**Single family housing unit**
- Main model of urbanization
- Suburban sprawl

Provide other possible configurations with access to street level through a **lifted street**
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[ Spatial Organization ]
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[Processes of Production]

Workshops for small scale production and education

Cooperative owned workshops
- Agriculture
- Adobe
- Woodworking
- Metalworking
- Car repair

Private owned workshops

Cultural workshops
Instituto de la Juventud

Production and distribution linkages

Contribution to construction of building

Education through production process
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[Processes of Production]

-Agricultural Production
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[Processes of Production]

Adobe Workshop

production of:
- adobe bricks
- tezontle-cement blocks

400-1184 bricks in 8 hours with 3 persons
(source: www.adobebuilding.com)
Adobe Workshop

Detail of implementation of hexagonal tezontle-cement blocks
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[Processes of Production]

Metalworking Workshop

Detail of implementation of hexagonal tezontle-cement blocks
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[Processes of Production]

Metalworking Workshop

Window frame W-01 consists of standard steel profiles which are assembled, cut and welded in the workshop. The simplicity allows production without expensive machinery and specialized labour.
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[Processes of Production]

Cultural Workshops
(Instituto de la Cultura - Instituto de la Juventud)
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[Socioeconomical Structure]
MAKING WASTELANDS PRODUCTIVE
[Socioeconomical Structure]

- Start of the process: current initiatives of urban agriculture run by individuals, the revenue goes for themselves.
Cooperative formation: with the help of the municipality the profit increases and can be translated into celling and processing facilities.
Making Wastelands Productive
[Socioeconomical Structure]

- Parallel federal intervention: Metro bus line
- Workshop strip in leftover federal land
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[Socioeconomical Structure]

**FEDERAL STATE**
- Provide main structure for working spaces

**MUNICIPALITY**

**AGRICULTURAL cooperative**
- Provide secondary structures (walls) for working spaces

**WORKSHOP cooperative**
- Provide secondary structures (walls) for working spaces

**HOUSING FOR COOPERATIVE**

**FEDERAL LAND (planned)**

**INDIRECT PLAYERS**

**DIRECT PLAYERS**

**INVESTMENT**

**PROFIT**
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[Socioeconomical Structure]

AGRICULTURAL cooperative + WORKSHOP cooperative

housing COOPERATIVE

MUNICIPALITY

profit reinvested in more housing

10% rental housing owned by municipality

INFONAVIT (national workers fund)
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[Temporalities]

Temporality 1
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[Temporalities]
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[Temporalities]
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[Temporalities]
- constructive details
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[Design Sections 2]
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[Design Sections 2]