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**DICHOTOMY**

*dichotomy* \dī-ˈkä-tə-mē also də-\ n.

**division** or **contrast** between two **things** that are or are represented as being **opposed** or **entirely different**

late 16th century: via modern Latin from Greek dikhrotomia, from dikho- ‘in two, apart’ + -tomia

BORDERLAND AS MEDIATOR

[decentralization, heterogenization vs. homogenization, hybridization]

borderland assemblage

formality

informality

Medellín cartel

criminality

paramilitaries

guerrillas
MEDELLÍN, COLOMBIA
WHY MEDELLÍN?
EMERGENCE OF INFORMAL DEVELOPMENT
HISTORIC DEVELOPMENT OF FOOD SUPPLY SYSTEM

- **1930**
  - Plaza de Lídice
  - Plaza La Paz
  - Mercado de Guayaquil
  - Plaza de Cisneros
  - Plaza de Lídice

- **1970**
  - Plaza de América
  - Mercado de Flórez
  - Plaza La Paz
  - Plaza de Cisneros
  - Plaza de Lídice

- **2010**
  - Plaza Minorista
  - Central Mayorista

**Estimated Supply Zone Public Market**

- **5.0 km**
- **7.5 km**

**Legend**
- Food logistics flow (increasing by scale)
- Public markets
- Supermarkets/malls
- Informally built areas

**Dates**
- 1890 Mercado de Flórez Plaza de América
- 1894 Plaza de Cisneros
- 1930 Plaza de Lídice
- 1930 Plaza La Paz
- 1930 Mercado de Guayaquil
- 1930 Plaza de Lídice
"The sad irony is that similar to infrastructure, the dwellers of slums end up paying a substantial overprice by buying in their corner store instead of the [supermarket] that has not yet ‘colonized’ their settlement”.

"The problem of food insecurity is most of all an urban logistics problem, largely depending on the existing [centralized] infrastructure".

DECENTRALIZATION OF PUBLIC FOOD MARKETS

1. actual situation
2. decentralization
3. local integration

CONCEPTUALISATION OF THE LOCATION

HYBRID CITYSCAPE

Avenida Ayacucho

FOOD HUB TRADE

URBAN

INFORMAL

FORMAL

RURAL

future public transport line

community gardens
The location of the project is seen as a hybrid cityscape, a location where the two systematics (both formal and informal) meet each other and merge into one space.
LOCATION AS BORDERLAND

economic border

conceptual border

political/bureaucratic border

topo/geographic border

urban

informal

formal

rural

comuna 8

comuna 9
THE GRID PATCHWORK
merging colliding grids
CONNECTING TWO SIDES

$10-30 million COP

$5-10 million COP

(new tram line stop)

(bus lines)

(location of map fragment within the municipality of Medellín)

(pedestrian) connection of transport lines
HYBRIDITY

-the *hybrid cityscape* as a product of the *borderland*-  

* facilitates *formal* and *informal* practices  

* local and *metropolitan* integration  

* *programmatic* hybridity  

* multiple stakeholders/clients
'formal'

'informal'
COMPLEMENTARY LOGISTICS (METROPOLITAN/LOCAL)
**PROGRAMMATIC HYBRIDITY/STAKEHOLDERS**

**food market**

- Recycling (WUDPVWDWLRQ)
- Waste management (EXVEXV)
- Food conservation (recycling)
- Transport circulation

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**local community**

- Community space (144 m²)
- Food education (72 m²)
- Communal kitchen/restaurant (108 m²)

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**cooperative**

- Dwelling
- Incremental housing

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**infrastructure**

- Tram station (200 m²)
- Bus

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**stakeholders/clients**

- Urban development department/Municipality of Medellin
- Fundación epm/Public projects foundation/public utilities company Medellin
- Metro of Medellin/Metropolitan area of the Aburrá Valley

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- 1380 m²
- 535 m²
- 75 m²
- 50 m²
- 720 m²
- 16x (3mx3m) units = 144 m²
- 10x (6mx12m) units = 720 m²
- 20x (3mx3m) units = 180 m²
- 10x (3mx12m) units = 720 m²

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- Manipulation of food (for instance jam)
- Protection of gardens from intruders
- Support for activities with the collective use of seed banks, fertilizers and tools
**PROGRAMME AND ROUTE**

- **food market**
  - 1380 m²
  - transport: 535 m²
  - food conservation: 75 m³
  - recycling: 50 m³
  - market stalls: 720 m²

- **reid**
  - 72 m²
  - communal kitchen: 108 m²

- **local production**
  - 50 m²

- **food education**
  - 72 m²

- **pedestrian/mobile vendor route**

- **cooperative**
  - dwelling: 144 m²

- **transport circulation**
  - 1380 m

- **waste management**
  - 75 m²

- **food conservation**
  - 50 m³

- **market stalls**
  - 720 m²

- **10x (6mx12m) units = 720 m²**

- **20x (3mx3m) units = 180 m²**

- **manipulation of food (for instance jam)**

- **protection of gardens from intruders**

- **support for activities with the collective use of seed banks, fertilizers and tools**

- **recycling**

- **support for local production**

- **transport circulation**

- **106 m²**

- **transport circulation**

- **link to Comuna 8**

- **link to main axis**

- **transport**

- **food conservation**

- **recycling**

- **market stalls**
CONCEPTUAL ORGANIZATION
ENTRANCE FROM AVENIDA AYACUCHO
PUBLIC STAIRS
VERTICAL CONNECTION
HOUSING COMMUNAL
ROOF
**MOVEMENT/VECTORS (TOPOGRAPHY)**

**Topography**

**Vertical circulation**

Travelators are used to transport pedestrians and those with mobile vending carts.

Elevators are used to transport the goods traded in the market.
ROUTE/SEQUENCE (1)

STREETVIEW
AVENIDA AYACUCHO
ROUTE/SEQUENCE (3)

INTERIOR VIEW
MARKET STREET
foundations for the market and tram stop are laid down as funded by the municipal development department
PHASE 2

The concrete support structure of the market service floor is poured on site.

The tram stop and bridge to connect both sides of the river are constructed.

The tram tracks are ready and in use as initiated by the Metro de Medellín.

Begin 2015
PHASE 3

The housing frames with basic services are built on top of the market floor.

The entrance stairs, elevators and travelators make possible a fluent flow through the public building area.

Market floor is finished, the walkway crossing the river is ready.

End 2015

Stakeholders
frame makes free infill possible
STRUCTURE SEGMENT AXONOMETRY

- pergola/guadua roof
- housing floors
- basic service unit
- market floor
- services zone
- service floor
- supporting table construction
- foldable (guadua) facade panel
HALF OF A GOOD HOUSE IS BETTER THAN HALF A HOUSE

First 50% = US$ 7,500
Second 50% = US$ 750

US$ 7,500 + US$ 750 = US$ 20,000

source: Elemental (2011)
GRID/TRANSPROGRAMMING

housing

shop + housing + gardens

market + housing

market + gardens
CLIMATE REGULATION

CROSS VENTILATION

HEAT OF INSTALLATIONS LEAVES
THROUGH FACADE OPENINGS
FACADE VIEW WITH ORNAMENTS
FACADE (GUADUA)

50x45 mm steel spacer with slotted hole

150x100 mm steel tube profile

50x100 mm steel rail

90-130 mm guadua (bamboo) rods in 2000x1000 mm steel frame

0.00 = 1603.5 m
GRACIAS
EXTRA: THE (IN)FORMAL DICHOTOMY

formality

informality

authorized

regular

right

not according to state order

unofficial

unauthorized

wrong

not random, with a certain logic

irregular

heroic entrepreneurship or self help
EXTRA: BREAKING THE DICHOTOMY (2)
EXTRA: THE BORDERLAND (1)

formality

semi formality

informality

borderland = urban area - informal - formal
EXTRA: DEVELOPMENT FOOD SUPPLY SYSTEM
EXTRA: PUBLIC (FOOD) MARKETSOF MEDELLIN

Markets

- **Mayorista**
  - Scale: XL
  - Organisation: grid
  - Size: 280,000 m²

- **Minorista**
  - Scale: L
  - Organisation: ad hoc
  - Size: 361,300 m²

- **Plaza de la America**
  - Scale: M
  - Organisation: grid
  - Size: 1,811 m²

- **Placita de Floréz**
  - Scale: S
  - Organisation: grid
  - Size: 317 m²
EXTRA: FOOD SUPPLY AND (INFORMAL) RESALE SYSTEM

main food market

informal resale

increasing food prices
EXTRA: (INFORMAL) STREET VENDING DENSITY IN CITY
EXTRA: INFORMAL VS MARKET DRIVEN DEVELOPMENT

- El Hueco
- Av. Ayacucho
- INFORMALIZATION
- PRIVATE MARKET DEVELOPMENT
- new CBD
- Milla de Oro

0 km 0.5 km 1 km 1.5 km 2.5 km
EXTRA: FORMAL ISLANDS IN THE INFORMAL
GRID MEASUREMENTS