Valparaíso Upcycling Market

P5 presentation

MSc 3-4 Methods and analysis | The commons | Chile | Valparaíso
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Ecological border & Urban border
Expansion
The hills  

The plain  

The sea
Expansion
Segregation
Valparaíso
space and event
Market
where people gather
Passage Daneri
Pasaje Bavestrello
Viewpoints
where people gather

Narrow passages
where people enter
urban edge
Valparaíso

urban strategy
A market on the edge

What makes a market special and successful?
Site

location
In Funicular Victoria
let us travel by it!
Site

water tank
Site

cultural park
Concrete

corrupted wood casted
cast-in-place

Corten steel
doors & opening frames
& finishing

Wood
columns & tiles

Glazing

light well closure

workshop curtain wall
Site visions
A market on the urban edge with a water tank near the cultural park

What makes this market special and successful?
Waste as a resource

waste as a problem
It is easy to find garbages around signs or telegraph poles.

Memories of the past, they are laying in the valley. What can few truck do when there are too many garbages and people do not want to walk even a bit further to sort waste?

Authorities do not give them the same right to be a part of municipal council meetings.

Some fine potential materials are throwing away because the former owners could not realize its value.

In between all most all the shadow place it is easy to find many garbages.

Woodboard, paperboard, bamboo sticks, big pieces of tiles... They could be more useful.

Big garbage trucks seem to effect the neighbourhoods in a bad way. They are also only existed at where the cars could reach. What about the unreachable places?
Plicomayo nº 591
Se recicle: Vidrios, Latas, Pilas, Cartones para bebidas, Celular
Administrador por: Eco Andes
Waste as a resource
From recycle to upcycle
Precedents in Chile and worldwide

Reptilia, Valparaiso
Author: Tetralux Architects
Upcycled materials:
Milk packages

School of music in Papa Nui, Valparaiso
Author: Toki NGO - Earthship
Biotecture
Upcycled materials:
Tires, glass bottles, cans

Proyecto Minga, Valparaiso
Author: Minga Valpo NGO
Upcycled materials:
Plastic and glass bottles, cans, pallets

Wicker Membranes, Itinerant
Author: Andrea von Chrismar
Upcycled materials:
Wicker

Okuplaza Antofagasta, Antofagasta Region
Author: Ciudad Emergente NGO
Upcycled materials:
Tires

La Bolsa Loca, Santiago, Metropolitan Region
Author: La Bolsa Loca
Upcycled materials:
Plastic bags, tetrapack packages, plastic packages, etc

Fabric fence, Valparaiso
Author: Unknown
Upcycled materials:
Fabric, cloth

Theatre Pallet
Author: Refine
Upcycled materials:
Pallet

30.000 Pizzas, Turin
Author: Farwaste Studio
Upcycled materials:
Steel cans, plastic cable ties

Precedents in Chile and worldwide


References

Redo the Undone: Material upcycling in architecture, art and design
Manuel illustré de bricolage urbain
Buurman workshop Rotterdam
Upcycling + Market

**The locals**: recycling spot + techniques learning center + market

**Tourists**: attraction + view point + market and shop

**Studios**: workshop + place for collecting and selling + knowledge exchanging

**Industrial → public**

- Cultural
- Educational
- The common space of the city
Glass bottles
Fabric
Wooden materials
Valparaíso upcycling market

mass and views
Valparaíso upcycling market
Flows and programs
Ground floor
Market
Market
The bridge - Viewpoints
Water tank
Parking
RAAAF

Affordances as a resource
-1 Floor

Workshop

Reception
Workshop for large and small groups
Machine room
Lecture hall

Shop
Cafe

Viewpoint
Courtyard
-2 Floor Storage

Studio office

Fabric storage with clothes collecting
Wooden material storage
Glass bottles storage with a bar

Wash and clean
Courtyard with intimate atmosphere
Valparaíso upcycling market

External circulation
Ground floor
Free markets and viewpoints
-1 floor
Workshop and shops
-2 floor
Mixed program storage

Transported to private parking
Transported to public parking
Bought or taken by studios
Rent workshop for waste upcycling from reception

Sold out in the free market
Bought by individuals & associations

STORAGE
Mixed programs
Bar
Clothes collecting
Moved to workshop
Made into products
Sold out in shops
Built into walls and floors

Courses & lectures
WORKSHOP CULTURAL CENTER - WASTE UPCYCLING CENTER
Experiencing viewpoints
TOURISTS

Machine room
tool renting
Under the bridge
Inside the water tank
Valparaíso upcycling market

Internal circulation
Ground floor
Free markets and viewpoints
-1 floor
Workshop and shops
-2 floor
Mixed program storage

Transported to private parking
Transported to public parking
Bought or taken by studios
Rent workshop for waste upcycling from reception

Contract
Waste
Contract
WASTE COMPANIES
Sorted
Loaded in trucks
Sorted
Loaded in vans
Transport by people
INDIVIDUAL & ASSOCIATIONS
Sold out in the free market
Bought by individuals & associations
MARKET

Taken down to storage by good lift
Cleaned and stored in storage
Sorted into glass bottles, fabric and wooden materials
Sold out in storage
STORAGE
Mixed programs
Bar
Clothes collecting
Moved to workshop
Made into products
Sold out in shops
Built into walls and floors
Courses
Lectures
WORKSHOP CENTER
-
WASTE UPCYCLING CENTER
Experiencing viewpoints
TOURISTS

Machine room
tool renting
Internal stair case
Fabric storage and clothes collecting
Pasaje Bavestrello
Wooden material storage and flexible walls
Glass bottle storage and bar
Valparaíso upcycling market
Sections
The free market
The road with market on each side
Platform and the courtyard
Activities in the building
The free market
Entrance of bridge with the water tank
The shop and storage
Valparaíso upcycling market
Structure and materials
-1 FLOOR

workshop space
half-underground level
reinforced concrete walls and columns casted on site
additional timber columns on the outside corridor

concrete floor slab
storage space interior and exterior roof
semi-floor wooden panel floor supported by timber beams and concrete walls

-2 FLOOR

storage space underground level
reinforced concrete walls and columns casted on site
Concrete
  corrupted wood casted
cast-in-place

Corten steel
  doors & opening frames
  & finishing

Wood
  columns & tiles

Glazing
  light well closure
  workshop curtain wall
Concrete + glass bottles
flexible walls

Fabric
market shed

Local techniques
flexible walls

Window frames
View from Cerro Alegre
View from cemetery
Valparaíso upcycling market
Climate
daylight at June 1st
12.00 am
daylight at December 1st
12.00 am
SolarLayer system:
a fiber conductor
photovoltaic cells
a voltage stabilizer
electricity
concrete mass release
heat during the night
floor heating system
connected to heat mediums
thermal energy from heated water
in-wall mediums
rainwater

a valve to control the water flow

underground water tank

water tank

water demand

filter

drain

gutter

gutter

VOEFSHSPVOEXBUFSUBOL

GJMUFS

water demand

underground water tank

filter
water tank
a valve to control the water flow
Methods
Sketches - panoramas
The Night Revels of Han Xizai. Gu Hongzhong (937–975)
Methods

Models
Lightwell
double height space
with elevators

Lightwell
light-cage-escape

Courtyard
arcade with wooden floor
and thin timber columns

Courtyard
open view towards the ocean
Reflection
Thanks for joining!

Thanks to my friend
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And all my methods fellows