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Waste Collectors: Urban Rangers

The Scope of Medellin through Informal Waste Collection

Christina M. Rubino Bachelor of Architecture Thesis

Contents

Contents

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Thesis Claims

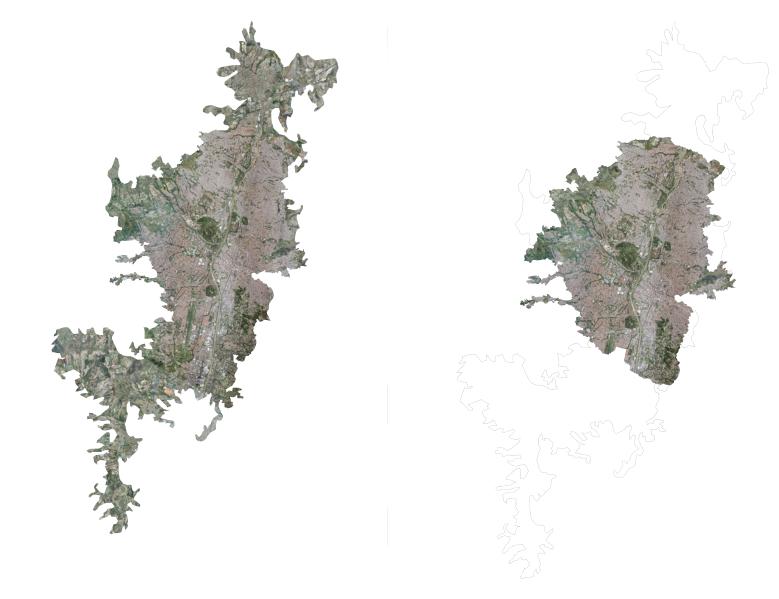
Thesis Claims

Waste Collectors: Urban Rangers, The Scope of Medellin through Informal Waste Collection, critiques the city of Medellin, Colombia through the scope of an informal waste collector.

The design proposal incorporates the city's existing infrastructure and waste collection culture into a manifestation of working elements; these will function as a network to assert a new spatial agency with user specificity.

Context

Context



The territory of Medellin is distinct with extreme topography and a strict city cap that includes the informal.

Context Context













1616

1980

1995

2004

2013

2015

Medellin is colonized by the

Medellin becomes the cocaine Spaniards capital of the world

Medellin is voted "Most Dangerous City in the World"

Sergio Fajardo is elected as mayor and appoints Jorge Perez and Alejandro Echeveria as urban planners

The first Metrocable Line is constructed

Medellin is voted "World' s Most Innovative City"

The Tram Line is constructed Due to its location, Medellin became a hub for drug transportation and this industry ignited a culture of violence and a government that turned a blind eye towards organized crime. However, in the past 20 years and the election of a mayor who dedicated his effort towards infrastructural intervention, drastic improvements through architecture have transformed the city. Medellin went from the world's most dangerous city, to becoming the world's most innovative city.

Medellin History

Context Context





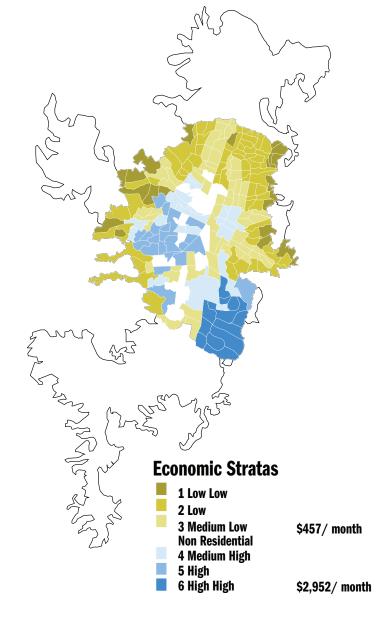


Within the context there are undeniable differences between what is seen in the valley and the higher elevations of the Medellin.

More commonly, this is categorized as the formal and informal zones. The extreme topography divides this city into economic zones that are differentiated through their residents and their physical appearance.

Within the past decade this segregation of topography and strata economies have literally been stitched together through the metro cable system.





The extreme topography divides this city into economic zones that are differentiated through their residents and their physical appearance.

Subject

Subject

This research defines a waste collector as: a person who resides within informal settlements and relies on the disposed belongings of others as exchange for income.

A waste collector uses the city as a resource to collect income through strategic circulation that transcends both the formal and informal. Their actions are self-determined as a means of survival.

This differs from the role of a formal collector, who is a government employee with a prescribed route, tools, and resources.

<u>11</u> 1

Subject Subject



1997

First instance of organized waste collection unions in Medellin

2003

Social climate of Medellin begins to change with election of Sergio Fajardo

Regional waste disposal sites are established throuhgout the city

2005

Il sites S y to t 2009

Sustainable Recycling is introduced to the legislation of Medellin

2017

New laws regarding
waste collecting
begin to slowly formalize
the practice

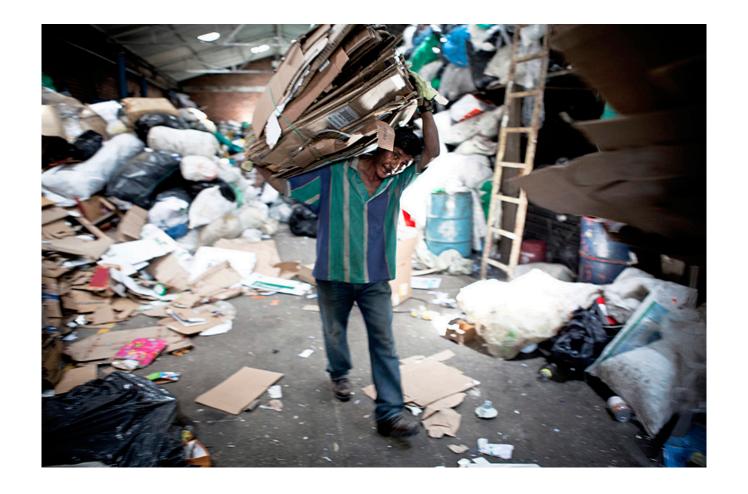
Within the context of Medellin, the informal waste collector is a role that is currently being questioned through legislative processes.

This pushes the informal urban phenomenon towards strict rules and regulations that formalize and control the practice.

It is particularly paradoxical, as this non-tangible legislative process is ongoing amidst the physically changing narrative of the city.

Subject Subject





Medellin is a city that has transformed its social, economic, and infrastructural climates from dangerous and undesirable to innovative and engineered to provide a symbiotic relationship between the formal city center and the informal living.

15 Informal Waste Collector 16

Subject



In order to understand the means, methods, and actions of a waste collector one particular group of waste collectors who call themselves Campo Santo was studied.



Campo Santo is comprised of ex-gang members who were not able to find jobs and decided to provide their community with a service while also providing themselves with a needed income.



They have developed a system in which they collect recycled items by foot within the surrounding barrios.

Subject



They sort their findings in a member's home that they call their workshop.



Once this is complete, they must bring their goods to the city center.

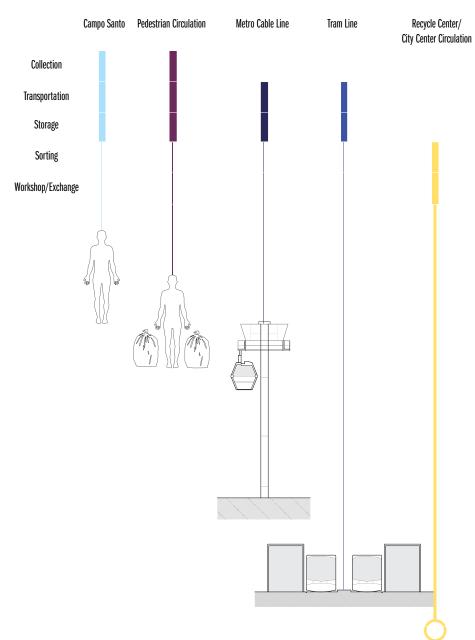


This is where the recycle centers are located, in order for them to receive a cash exchange.



Subject

Action of Subjects- Methods, Site, and Quantification



Subject

With stolen resources, such as the cart, the optimal form of street collection is not accessable to Campo Santo collectors leaving collection to the body and bag.

This leaves many object left within the domestic zones of Campo Santo to have no value for collectors because of their inability to be transported.



12 gallons

X 128



15,870 Colombian Pesos

About \$5.00

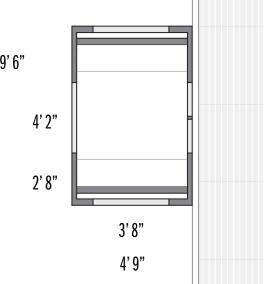


16 gallons

X 120

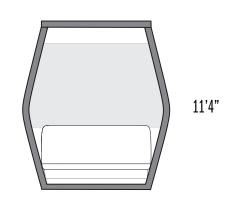


19,044 Colombian Pesos About \$6



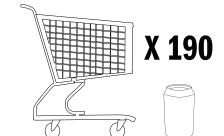
Metro cable dimensions

The scale of collection is limited to the dimensions of the smallest transportation vessel, the metro cable.



2" GAP

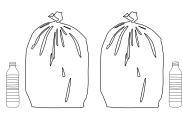
The scale of colelction changes drastically at the scale of the city center, which allows for alternatie forms of collection, upon availability.



22,218 Colombian Pesos Almost \$8



31,749 Colombian Pesos About \$10.00

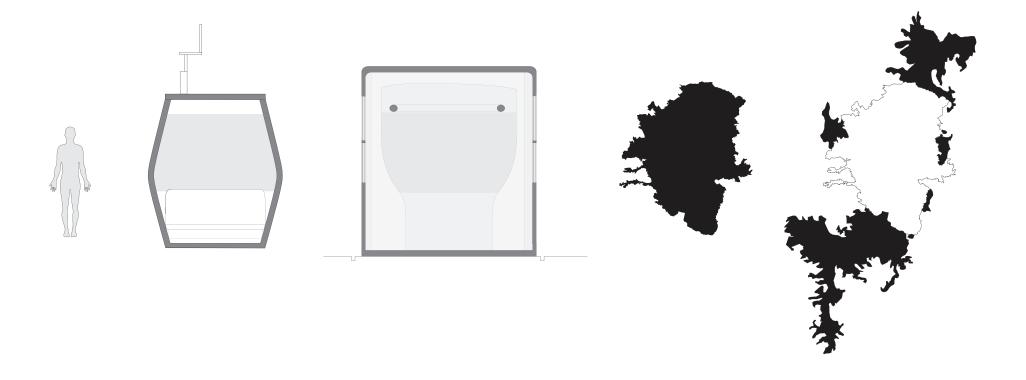


38,088 Colombian Pesos About \$12

Approximated return values per large collection quantities with external device

Approximated value of return values per typical container size and contents 19

Subject Subject



Their income comes from a strategic circulation that utilizes pedestrian activity, metro cable, tram transportation, formal, and informal resources.

Condition

Condition





Residential Recyling

Condition







25

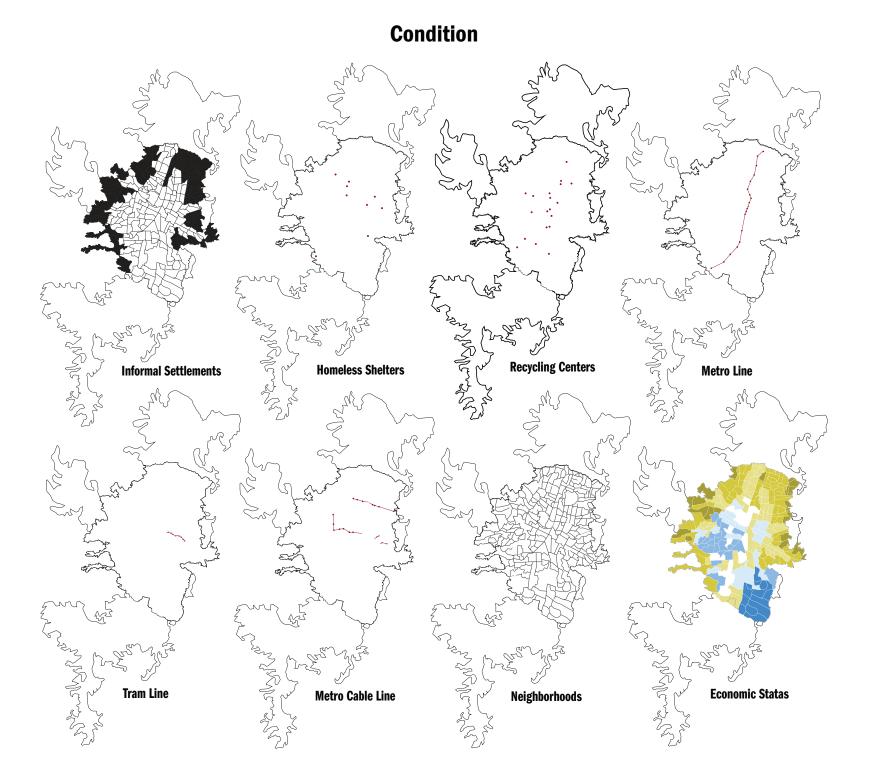
Condition



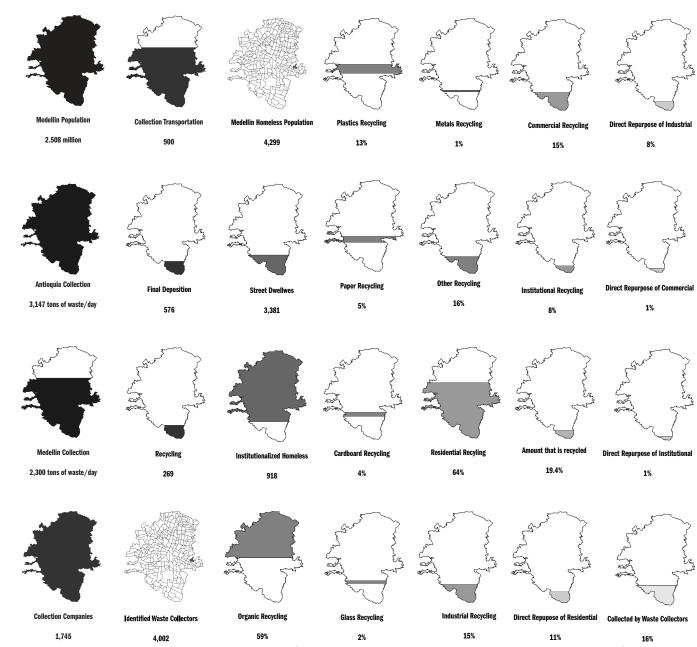




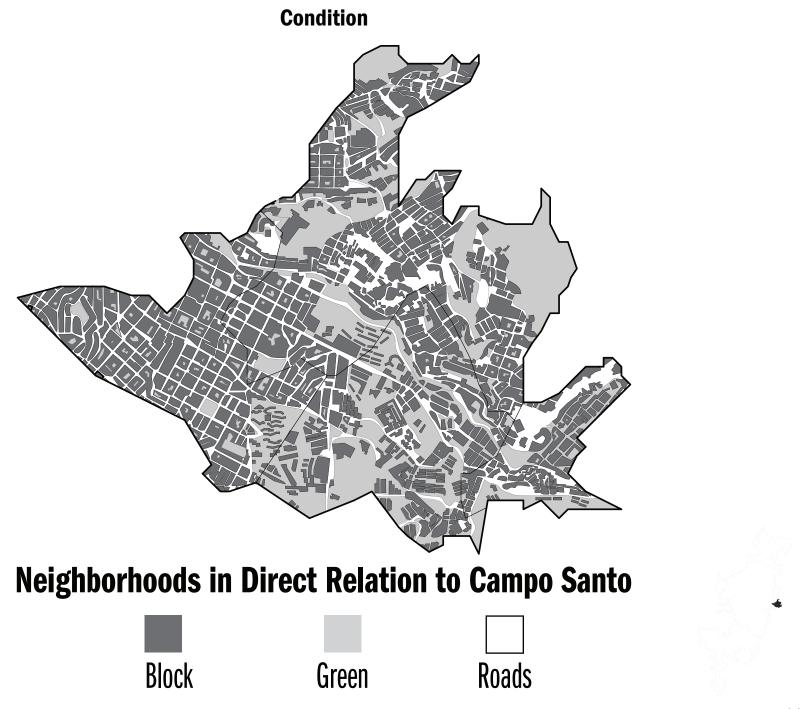
Walking through the Campo Santo's limited street view, which is mainly residential, the streets are not only storage for this waste but also, a resource for those to depend on it. The act of informal waste collection mostly occurs in residential communities, due to the fact that over half of Medellin's recycled material comes from residential zones with a decent amount being collected by informal collectors with purposeful reuse.

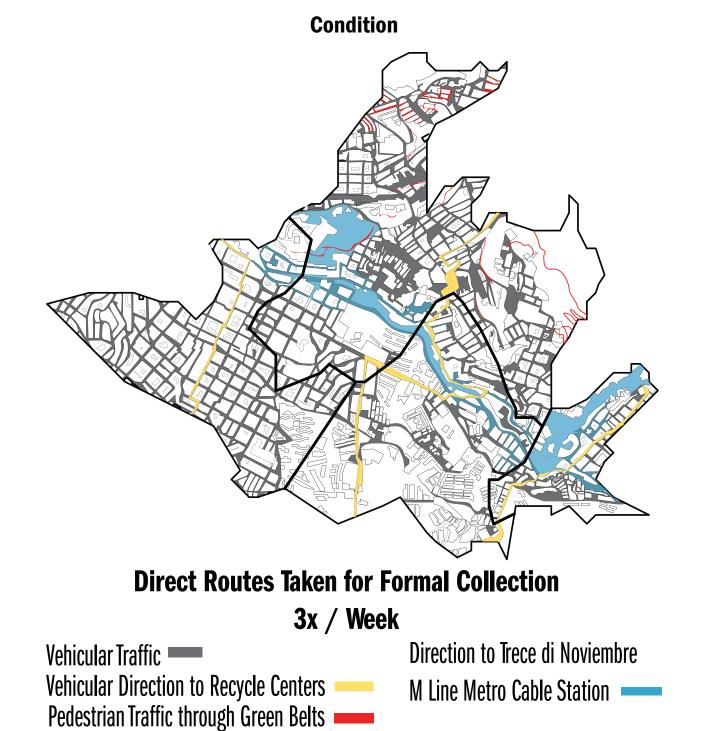


Condition



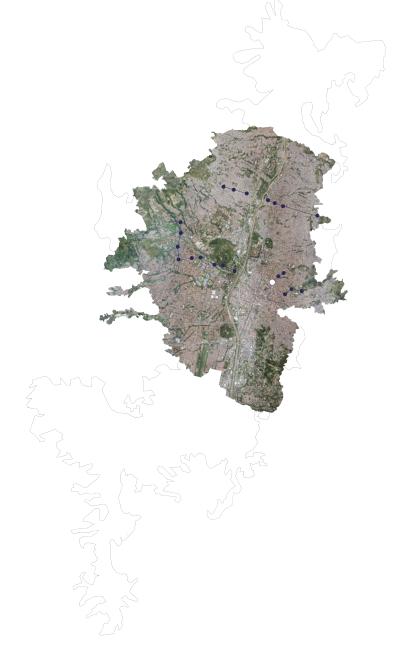
The majority of residential barrios are located within the informal along with a respectively large amount of waste and recycled material.







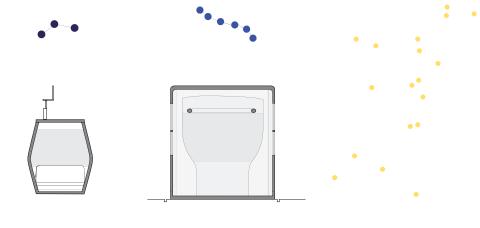






Condition Condition



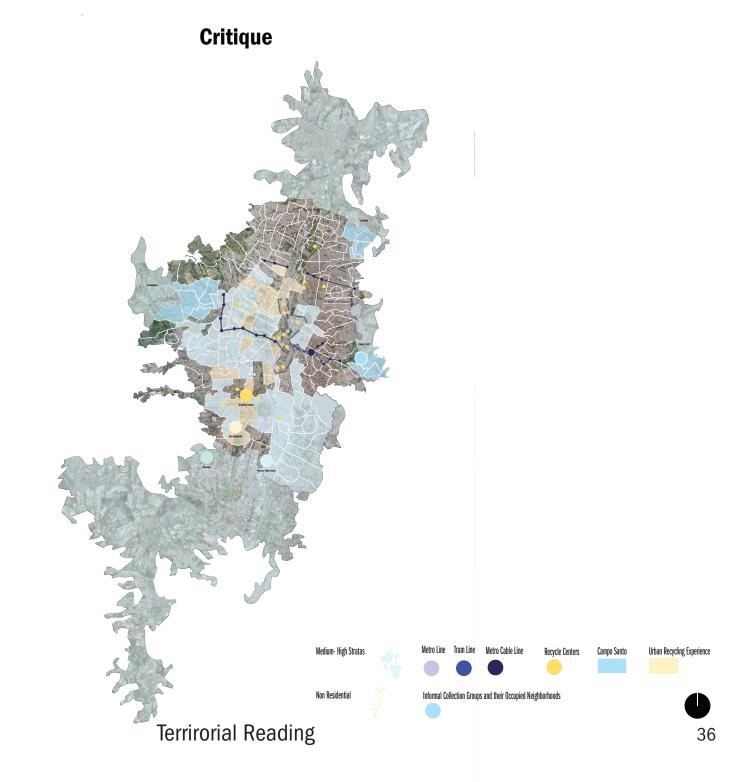


The process of moving from the informal to the formal typically includes a descent on the metro cable lines, tram line, and the city metro line.

The process from moving from the informal to the formal, and specifically the barrio of Campo Santo, involves three metro cable stops, six tram stops, and either a metro stop or walk to a recycle center. Collectors then circulate this formal zone to find more items to bring to recycle centers.



Critique



•

Critique





One of the largest problems found in the act of collection is the lack of transportation vessels available to the collectors. Many collectors voiced their struggles in having things like wheeled carts stolen, which is putting their body in a compromised position.



Additionally, these vessels cannot be transported within the constraints of the public transportation vehicles, which provides an added obstacle to the circulation of waste.

Intervention

Intervention

Waste Collectors: Urban Rangers proposes a design intervention aimed to enhance the life of a waste collector in the form of a public program, positioned as an urban tool and effective at multiple scales.

<mark>- 39</mark>

Intervention Intervention



The critique of this practice in relation to the legislation being imposed is one that promotes the use of Medellin's existing infrastructure with the integration of design tools that enhance and provide a more positive alternative to the daily life of a waste collector.

It provides a critique of current working elements with real values that could be designed to function as a network to assert a new spatial agency with user specificity.





19,044 Colombian Pesos

About \$6









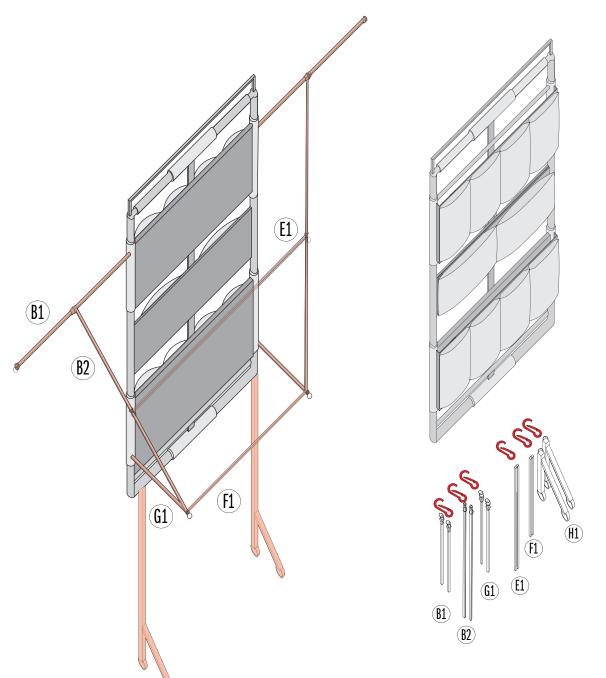


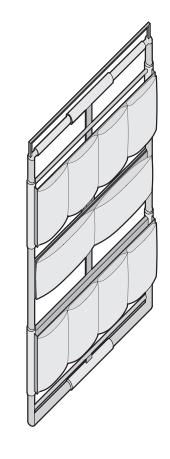




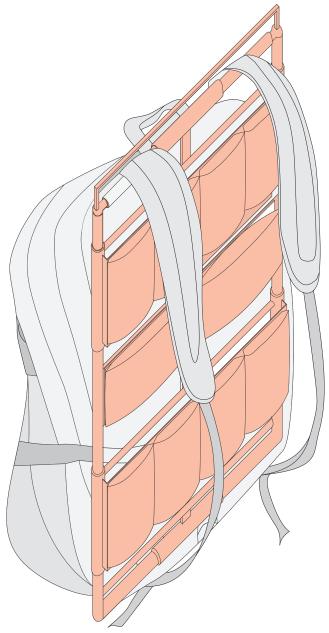
The subjects, informal waste collectors, are traced in their everyday routes and urban experiences; their actions, means, and methods are then quantified in order to determine an algorithm for an optimized collection technique and performance.

Intervention at the Object Scale



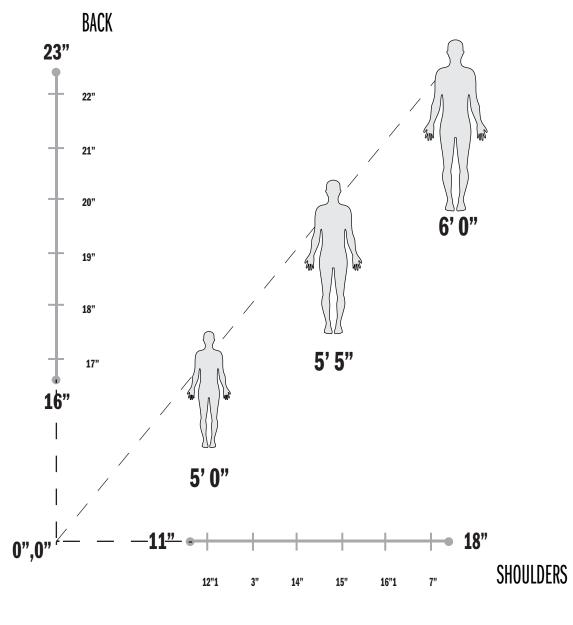


This subject to object intervention is an exoskeletal apparatus. This object/user relationship tackles the subject scale of the urban intervention. The apparatus is designed to be adjustable and allow for a mutation of its structure via growth and optimization for the users' comfort, findings, and necessities.



When attached to a backpack, this apparatus optimizes physical, and in turn, monetary collection.

Intervention at the Object Scale



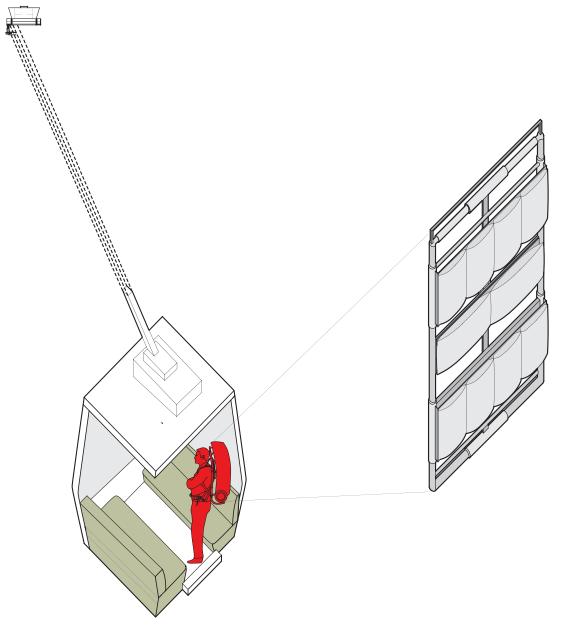
These proportions were determined through ergonomic research and a survey of measurements taken from a large variety of body types.

The adjustable design is meant to expand and contract horizontally and vertically in order to meet the proportions of any body type.



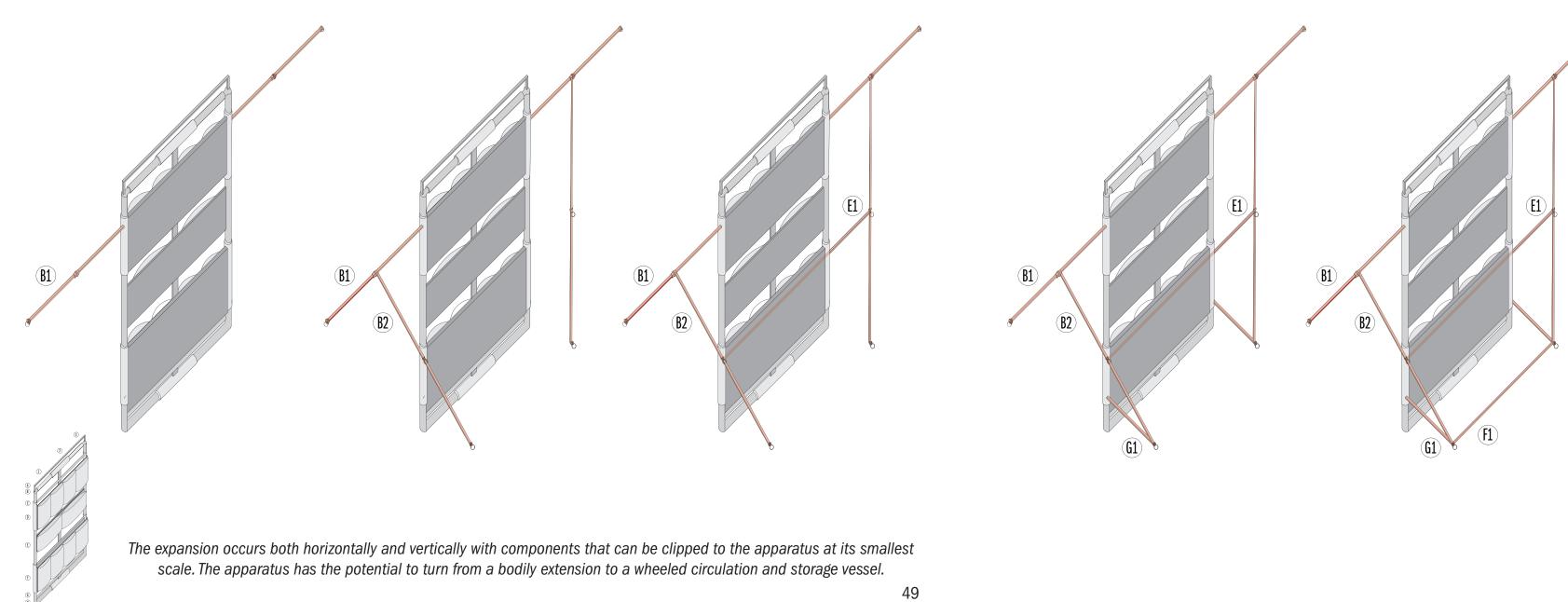
A horizontal element of the apparatus is removed and then reattached once the backpack straps are fastened in the proper position.

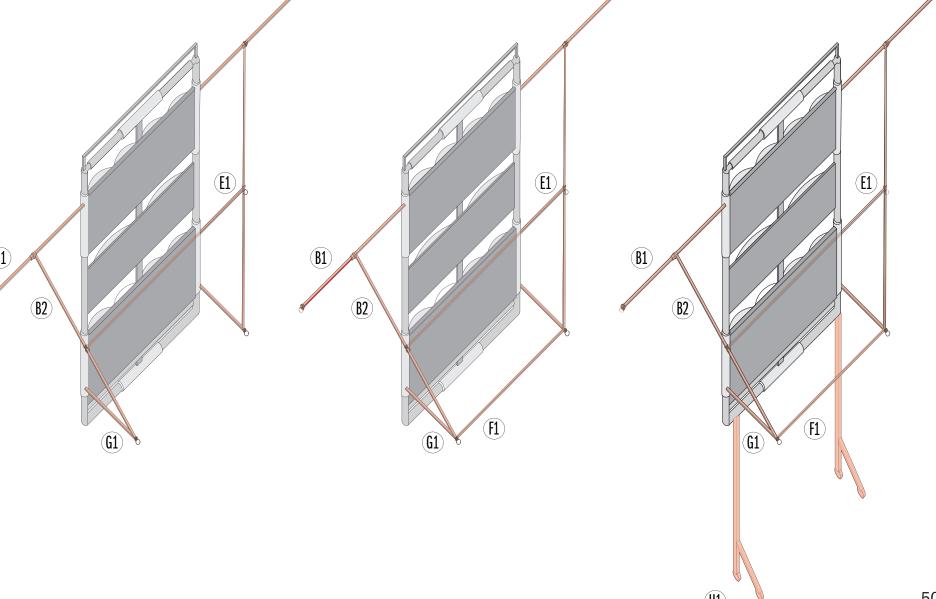
Intervention at the Object Scale

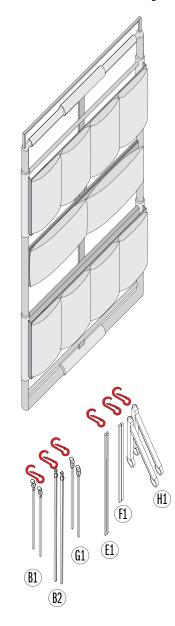


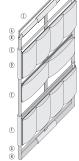
The mutation of the device is designed around the constraints of the dimensions of the metro cable in order to meet the needs of the subject's daily activities and still be functional at the urban scale.

Intervention at the Object Scale



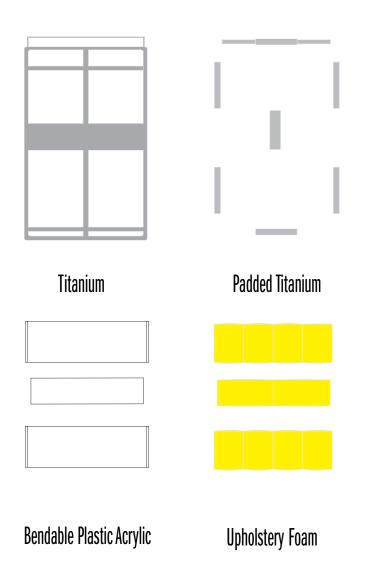






The mutation and optimization of the structure is currently being as represented by metal spring clasps as the accessory attachment. But there are several other possibilities. With this design, customization is key to adhering to user specificity.

Intervention at the Object Scale



Due to the fact that most of the object is made of a lightweight metal, padding is added in order to allow for comfort and support of the user.



The metro cables are the most literal connection between the formal and informal zones of the city. For most, this is the only way to reach the city center. Due to the fact that informal waste collectors have large resources within the low-medium residential stratas this creates an obstacle in transporting goods to the recycling centers in the city center.

Intervention at the Object Scale



The apparatus is designed to fit within this constraint of the transportation that includes the metro cable and the tram.



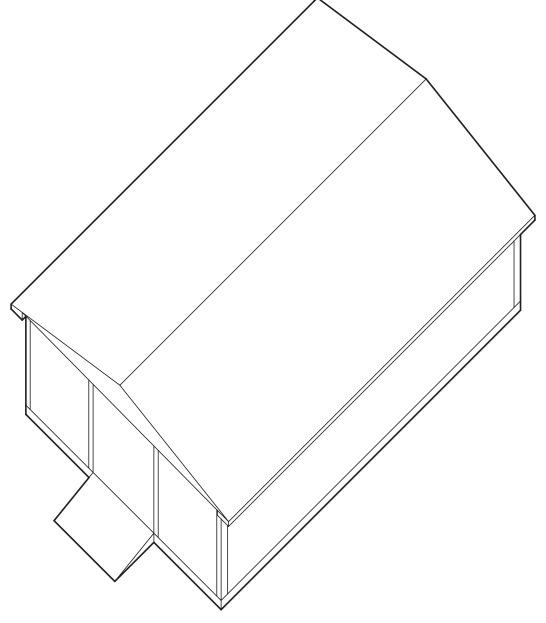
The same type of mutation can now occur in the informal and the formal in order to equally utilize resources.

Campo Santo with Intervention 55 City Center with Intervention

Intervention at the Object Scale

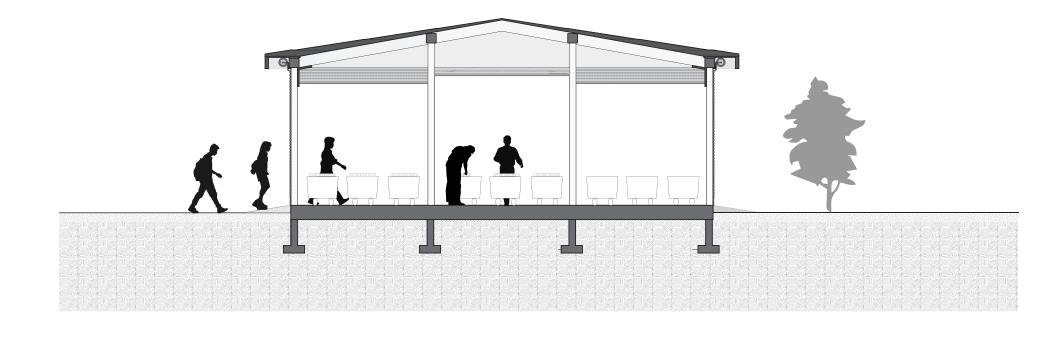


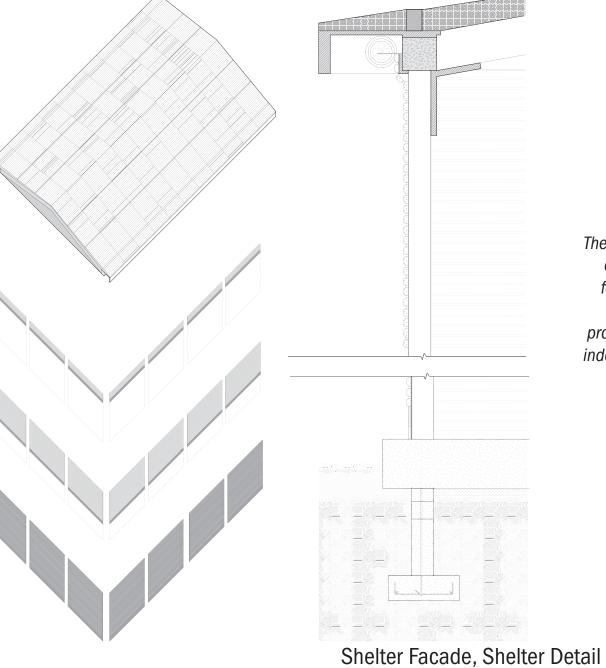
Intervention at the Barrio Scale



By using the body as site and the city as vessel, the physical backpack apparatus will be distributed at shelters located throughout informal residential neighborhoods.

Intervention at the Barrio Scale



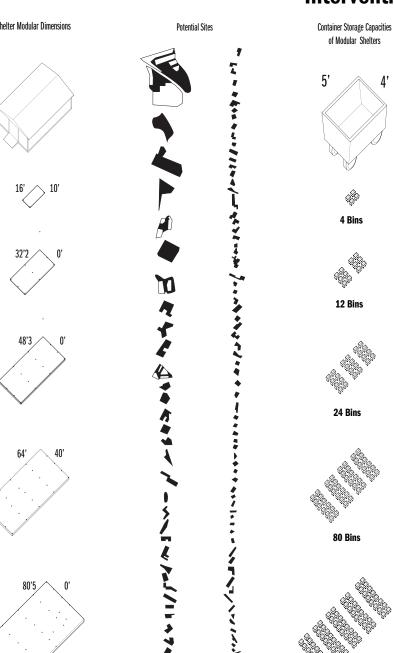


The intervention includes a neighborhood distribution center that has a simple construction; the main feature is a rolling shed like opening and closing system designed to satisfy different programmatic needs. This feature provides a familiar indoor/outdoor residential atmosphere often found in Latin American residential barrios.

Intervention at the Barrio Scale

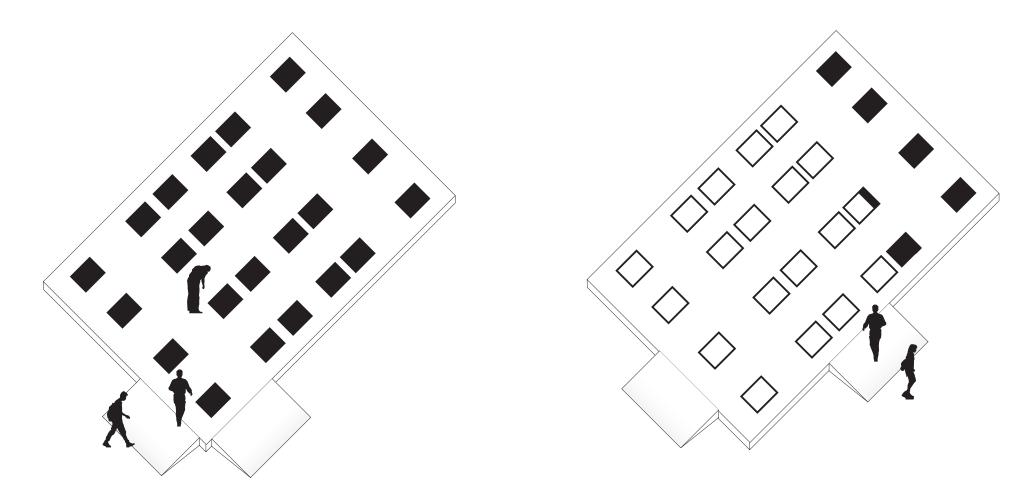
Apparatus Storage Capacities

of Container Storage



4

The storage space is designed in modular proportions in order to house large amounts of apparatuses and fill unused green spaces and empty lots within the residential Campo Santo zone.



The peak hours of distribution and return are assembled to satisfy large crowds designed around the act of supplying.

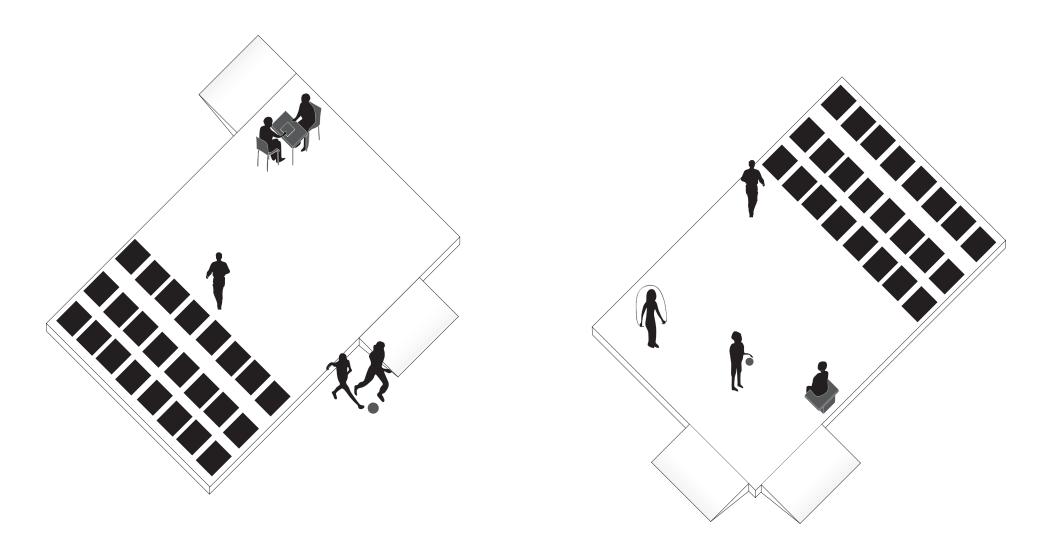
63

Intervention at the Barrio Scale



Shelter at Peak Hours

Siletter at reak riours



During non-peak hours, the storage system can be rearranged in order to serve as a community space that blends in with the neighborhood building vernacular.

Intervention at the Barrio Scale



The street within the Medellin context is a definite social magnet within the city and the notion of dwelling within the street is an element of the city that transcends both the formal and informal zones.

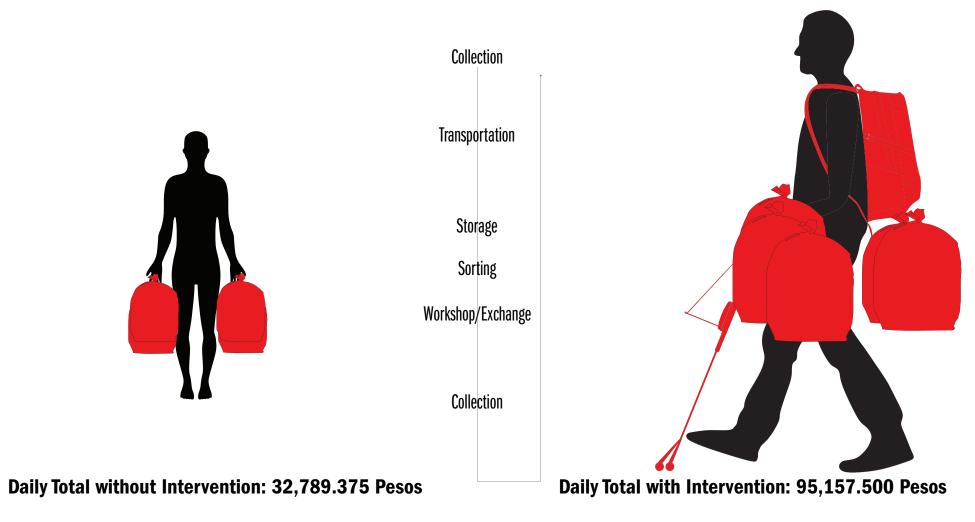
Intervention at the City Scale

Intervention at the City Scale



These are calculated approximate collection values based on storage sizes and waste sizes.

Intervention at the City Scale Intervention at the City Scale



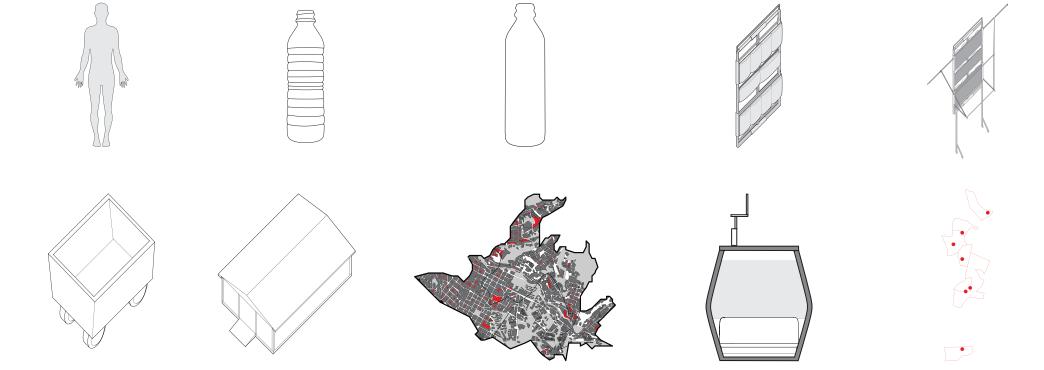


This proposal for public programming via physical intervention is a viable option within Medellin. The city's narrative is part of an architectural and urban renewal consisting of infrastructure and public works that have significantly transformed the city's image and social climate.

Ultimately, the apparatus allows for optimal collection with higher value than the methods seen previously. In addition to this high value, the comfort and safety level also increases

Intervention at the City Scale

Intervention at the City Scale



Based Medellin's changing physical and social narrative and the waste collection culture in the city, this project proposes interventions regarding networks of waste collection apertures have the potential to benefit the user through collection optimization as displayed within the narratives depicted.

By understanding the user and their capacity to circulate the city and nodes of infrastructural framework for transportation, this network will inform the existing social construction of the waste collection practice and use urban experience to make design and planning decisions.

This brings the scale from collected objects to a transportable storage, which mutates to satisfy the users' various needs.

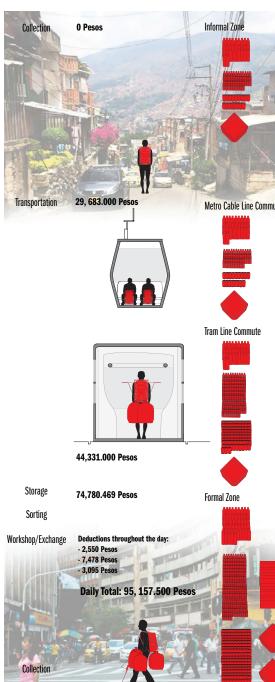
These objects are then stored into shelters that have an ambiguous boundary in relation to the street.

The shelter then takes on the role of a site, which brings another scalar element to the urban conversation. In turn, this creates a network of tangible resources and gives spatial agency to the urban phenomenon of waste collection.

Ultimately, this network of objects and users will circulate the city as it was designed to function specifically within the transportation mode of the metro cable which brings the user and their objects to the city center destination.

Conclusion

Conclusion



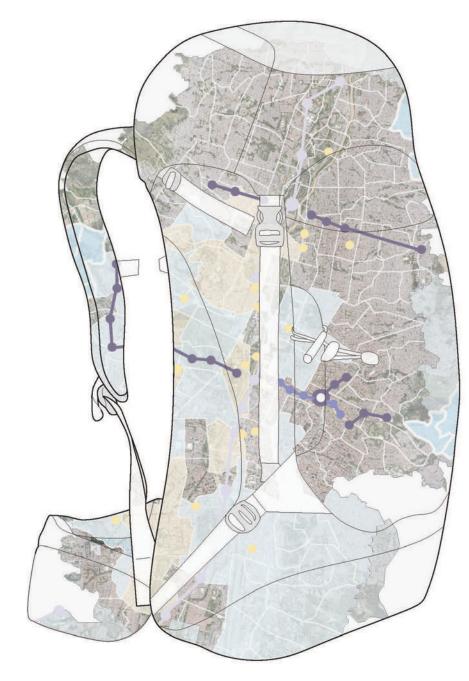
The design- a public program consisting of two physical scales and one alternative experience- predicts how informal waste collectors can navigate the city with calculated spatial elements, designed to conform with the constraints of the body and urban elements specific to Medellin. The subject of informal waste collectors, object of the apparatus, informal neighborhood, city center, and their commensal relationships are compared through existing conditions and a designed alternative.

In a scalar method, the weight of the intervention shifts from a user to city and the effects between these bisect and are traced on the layout seen on the wall. Critiquing Medellin through the scope of an informal waste collector allows for an improved alternative to current collection methods and an improved user experience.





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