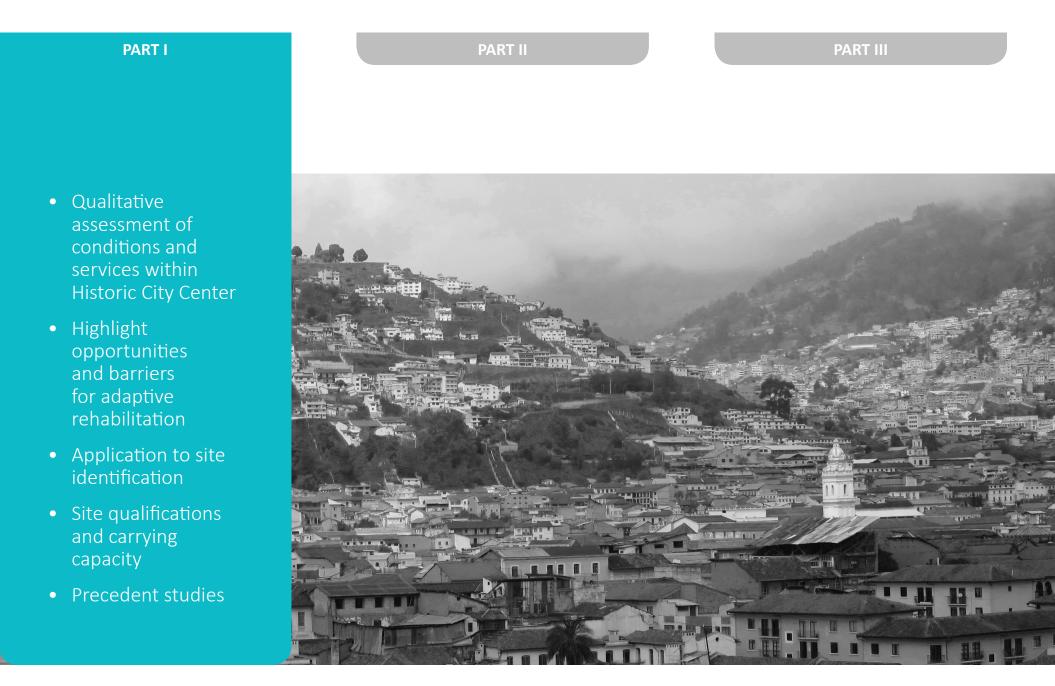
QUITO ACTIVATING HERITAGE ASSETS

ADAPTIVE REHABILITATION + HOUSING IN HISTORIC CITY CENTERS

05 :: 02 :: 14

PROJECT BRIEF

ADAPTIVE REHABILITATION IN URBAN HERITAGE CENTERS



PROJECT BRIEF

ADAPTIVE REHABILITATION IN URBAN HERITAGE CENTERS

 Qualitative assessment of conditions and services within Historic City Center

PART I

- Highlight opportunities and barriers for adaptive rehabilitation
- Application to site identification
- Site qualifications and carrying capacity
- Precedent studies



• Demographic assessment for the Historic City Center of Quito

PART II

- Identification of existing and potential stakeholders
- Use analysis for sites: (1) Heritage Building in Historic City Center, and (2) Urban Block in Historic Buffer Zone
- Design briefs adaptive rehabilitation



PROJECT BRIEF

ADAPTIVE REHABILITATION IN URBAN HERITAGE CENTERS

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 Demographic assessment for the Historic City Center of Quito

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- Design briefs adaptive rehabilitation



PART III



) S R S

CITYWIDE DEMOGRAPHICS + DYNAMICS

QUITO :: HISTORIC CITY CENTER AND BUFFER ZONE

INTRODUCTION

QUITO

- Capitol of Ecudaor
- Founded 1534 (Spanish City)
- Stark Contrast between Old/New and Rich/Poor Neighborhoods



QUITO :: HISTORIC CENTER









QUITO :: HISTORIC CENTER

5466



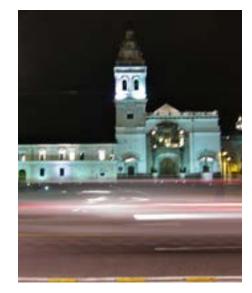












QUITO :: MODERN DISTRICT

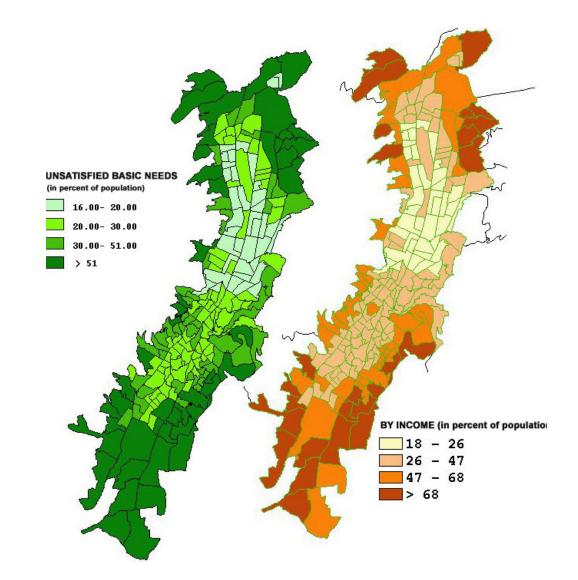






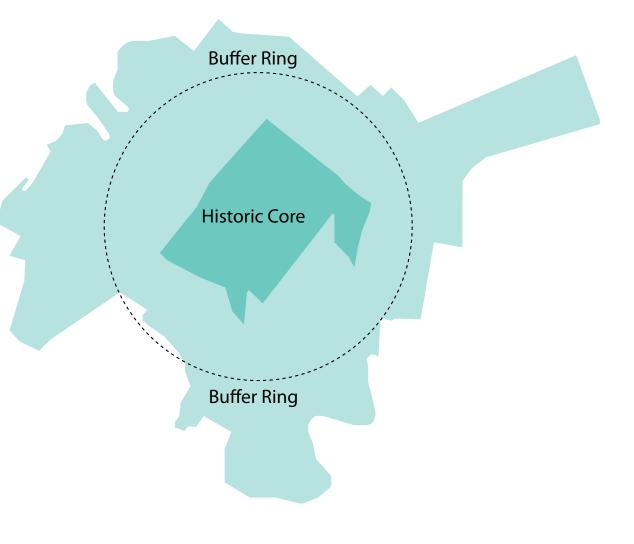
QUITO

- Areas of high poverty and lack of basic needs are on the periphery of the city, while the city center and modernized northern neighborhoods are more affluent and well served.
- Increasing housing pattern of mixed income communities as wealthy population returns to modernized northern core to be closer to employment
- Due to topographic constraints, high density housing typologies are prevalent
- Quito experiences lower unemployment than neighboring cities and areas, with private labor being the main source of employment. The city also has strong craft/trades.



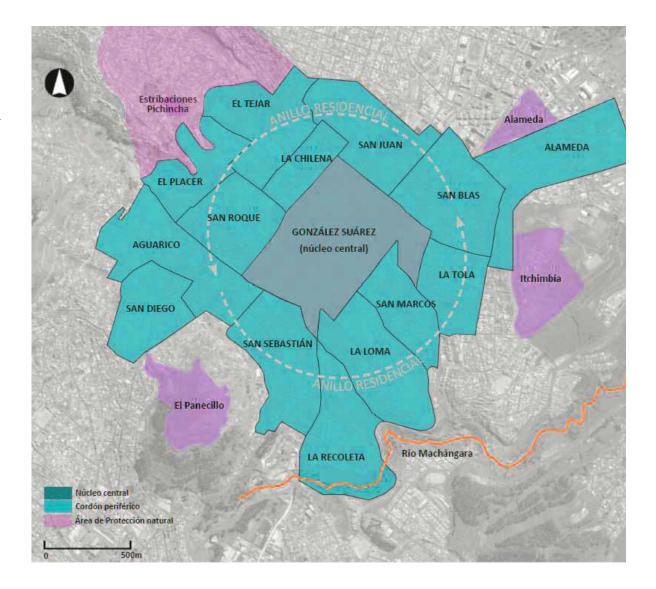
Historic Center of Quito

- The majority of the population lives within the buffer ring while most of the retail operations are located in the core.
- This is indicative of the fact that many of the property owners in the core are content to lease only the bottom floors to businesses leaving the top floors vacant.
- Despite the higher population density in the buffer ring most of the infrastructure improvements from the municipality have been done in the core, this includes lighting, trash pick-up service and new cans, new street paving, security and public spaces.
- Although the income levels of the residents have increased dramatically over the past two decades in the buffer ring, the historic core has remained largely middle-low income.
- The majority of the residents in both the buffer ring and the core work in the service industry, given that there is little of that activity in the HCQ as a whole it is likely that these individuals are commuting out of the area for work, and that those working in the HCQ are from elsewhere.

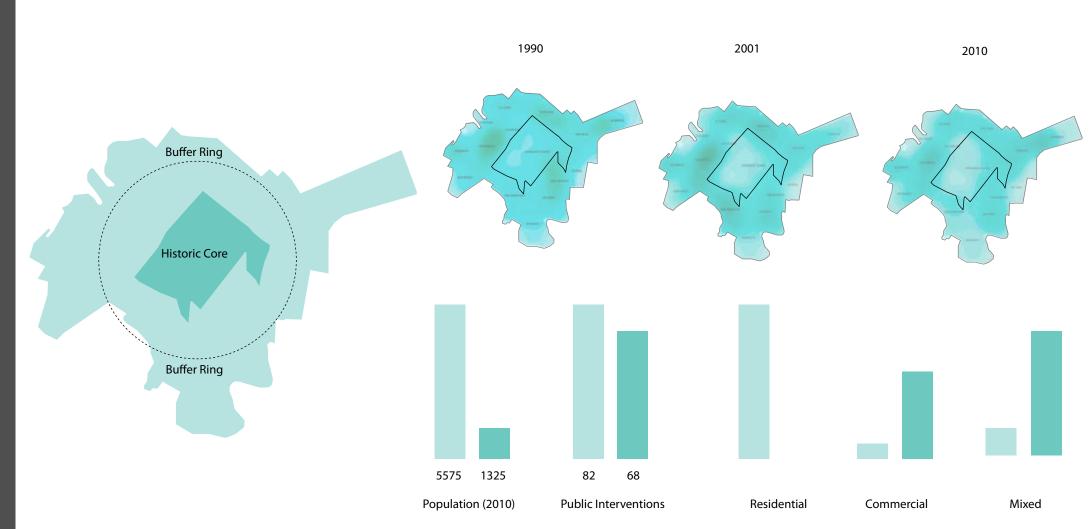


Neighborhoods of the HCQ

- For the past two decades the income levels of the neighborhoods have changed dramatically, being heavily low income in 1990 to predominantly high income in some neighborhoods toward the north in 2010. The highest of these being in the San Juan, El Tejar, and Almeda neighborhoods.
- The neighborhoods of San Roque, Gonzalez Suarez, San Diego, and parts of Aquarico have remained largely low and medium-low income.
- Population density has decreased as a whole over the past two decades and however the highest densities remain concentrated in the poorer and wealthier areas in the buffer ring.
- The highest populations are included in the northernmost neighborhoods such as Alameda, San Juan, San Blas, and El Tejar. However the historic core of Gonzales Suarez remains average, this could be indicative of the fact that its easier to develop higher densities of housing in the buffer zone which is less protected.



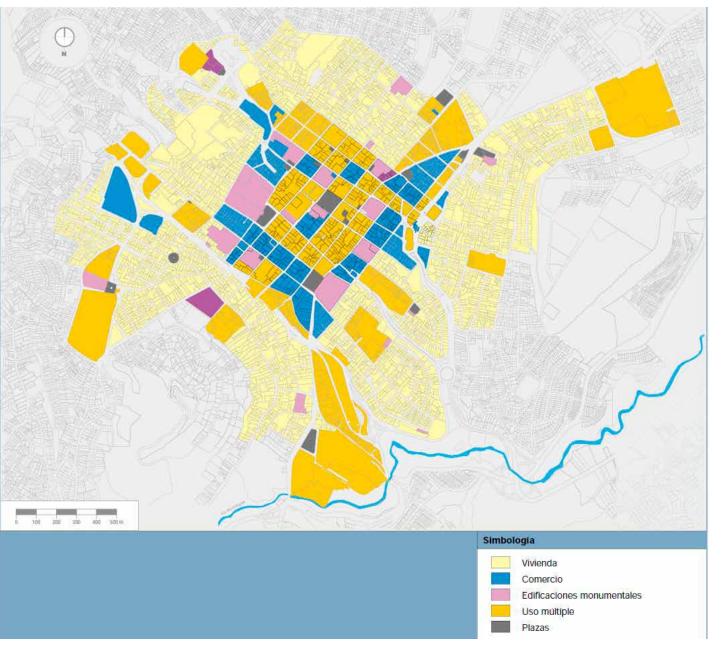
HCQ VS. Buffer Ring



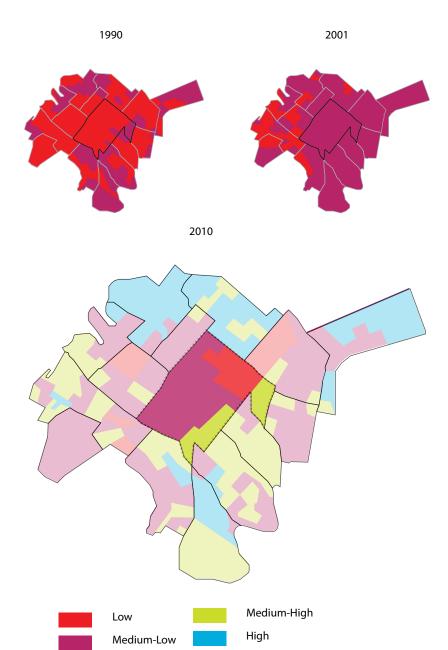
ERITAGE ASSETS In historic city centers **QUITO** :: ACTIVATING H adaptive rehabilitation + housing

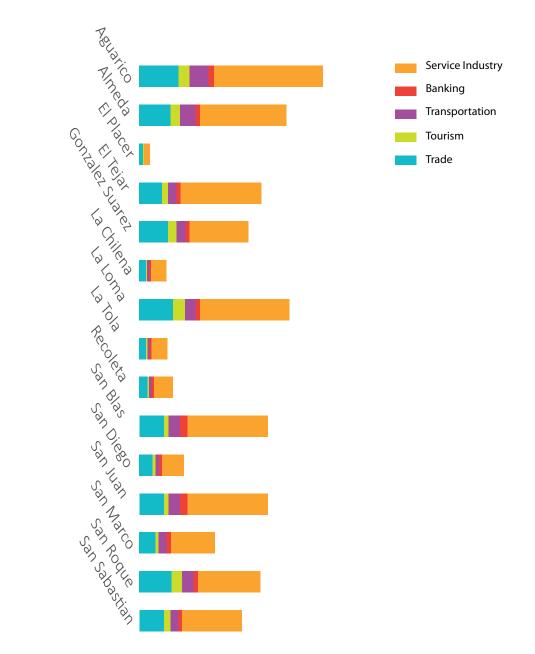
ZONING

- The majority of Mixed and Commercial spaces is located within the HCQ while the buffer ring is almost exclusively residential.
- The Buffer Ring therefore tends to lack many of the services and conveniences of the core, while the core lacks the quiet residential characters of the periphery.
- Zoning is very compartmentalized and needs to allow for more flexibility to provide for amenities that would attract a new group of users.

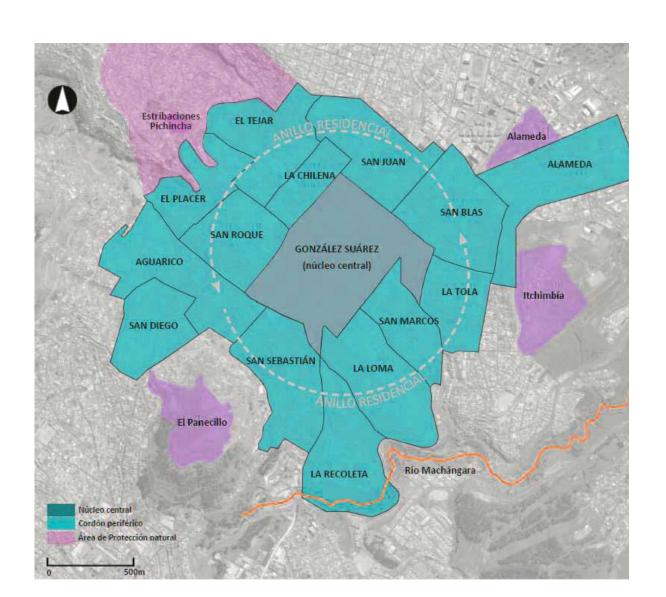


Income and Labor



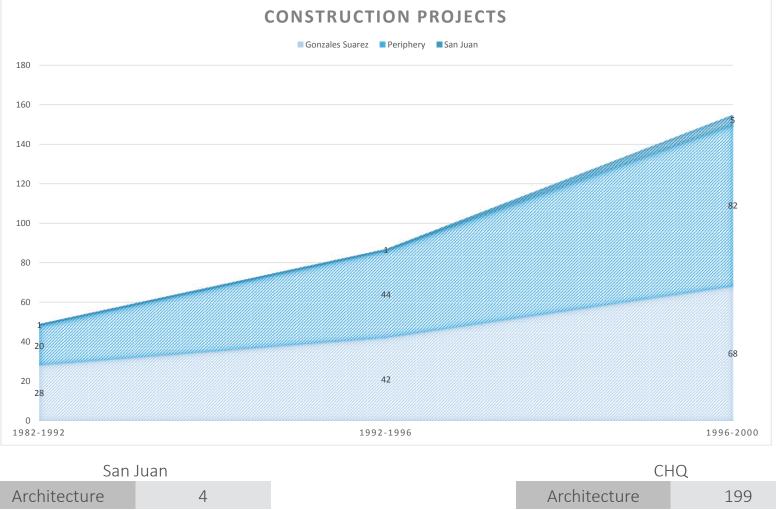


Population Dispsersal



San Roque		
Gonzalez Suarez		
El Tejar		
Alameda		
La Chilena		
San Diego		
La Loma		
San Sebastian		
La Chilena		
San Juan		
San Marco		

Construction Projects from Municipality



Architecture	4
Public Space	1
Utilities	0
Infrastructure	0

Cł	HQ
Architecture	199
Public Space	31
Utilities	67
Infrastructure	30

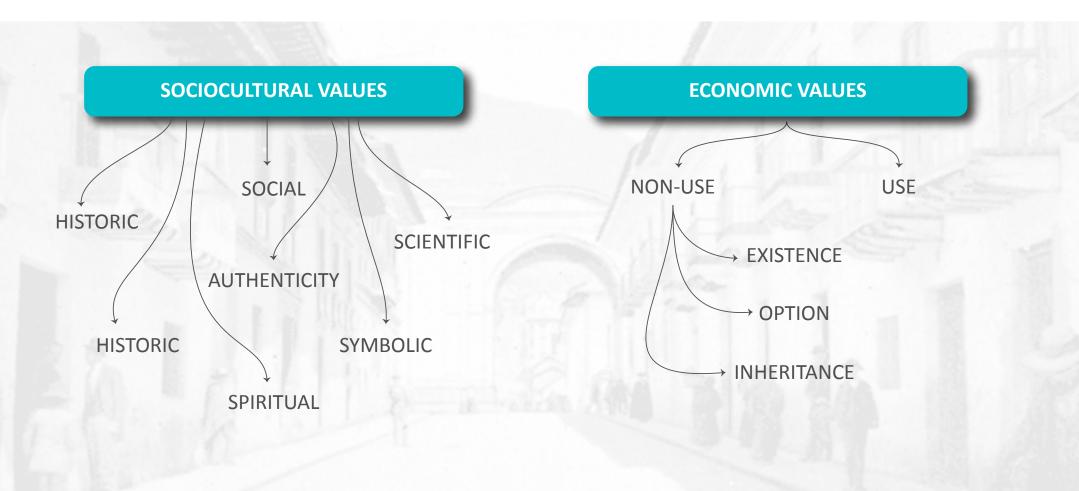
REHABILITATION ASSESSMENT + ANALYSIS

QUITO :: HISTORIC CITY CENTER AND BUFFER ZONE

KEY ASPECTS OF DECISION-MAKING

1 :: VALUES

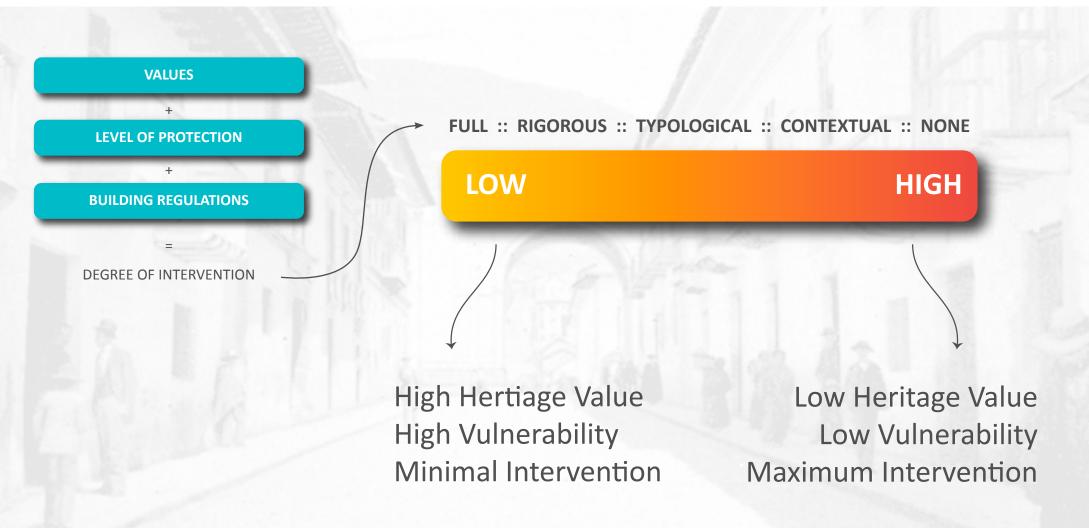
Since its nomination as one of the first two UNESCO World Cultural Heritage Sites in 1978, the historic city core of Quito has served as a cultural and historical beacon to the people of Ecuador. The historic core's sociocultural and economic values, which were originally grounded in social, spiritual, use, and non-use, have since expanded to cover the entire range of heritage values.



KEY ASPECTS OF DECISION-MAKING

2 :: CARRYING CAPACITY

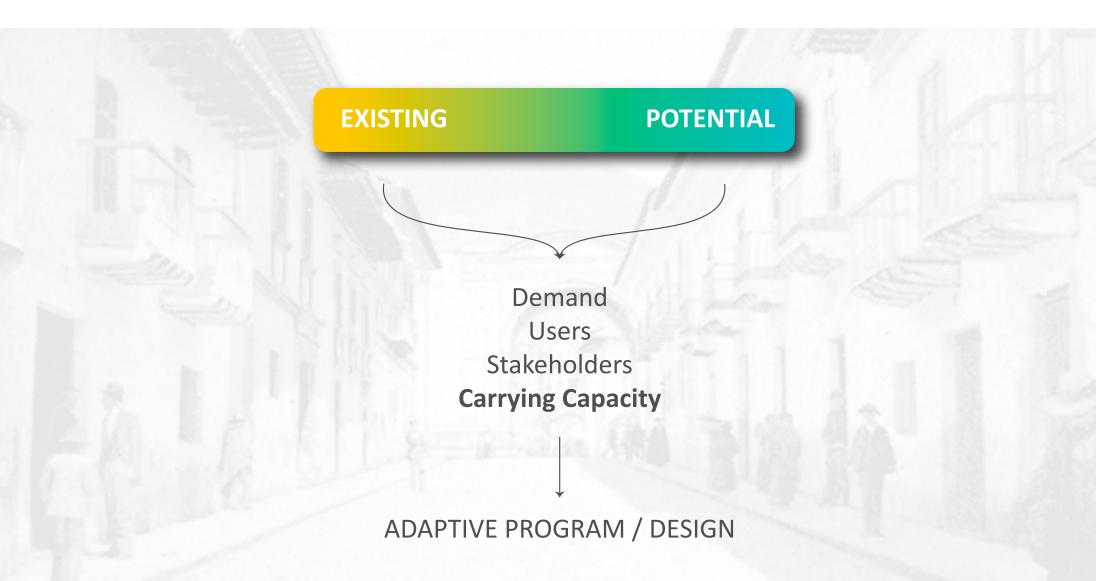
Since its nomination as a UNESCO World Heritage Site, the Historic Core of Quito has ossified to the point where many of its once densely populated buildings stand largely vacant. The local metropolitan government is seeking new forms in investment in the Historic core aside from museums and religious centers. The ability for buildings to 'carry' new uses is largely dependent on the level of protection and set of building regulations imposed by the municipal government



KEY ASPECTS OF DECISION-MAKING

3 :: USE / USERS

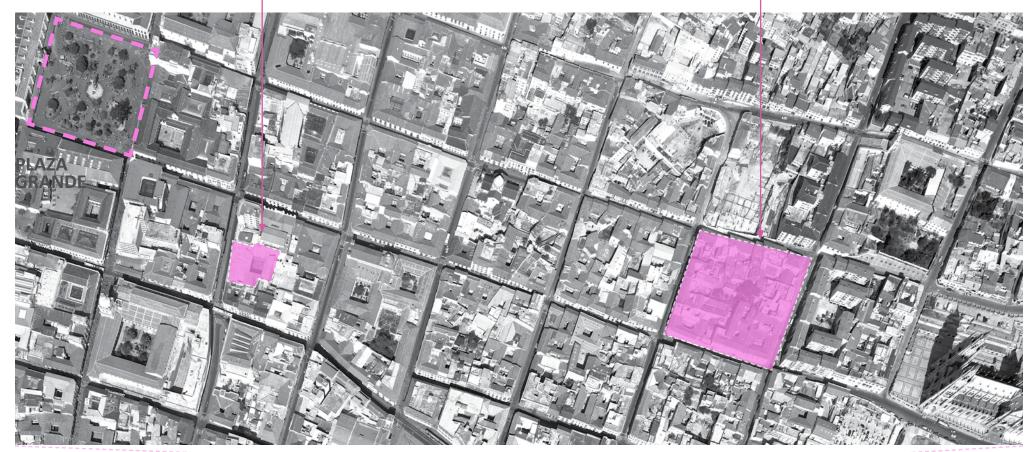
Historic buildings cater best to uses and users that allow the building to maintain its heritage values while maximizing carrying capacity.

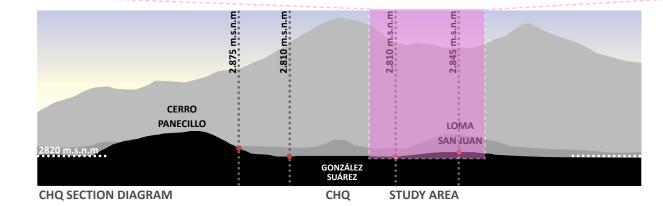


SCALES OF INTERVENTION

SCALE 1 :: Heritage Building



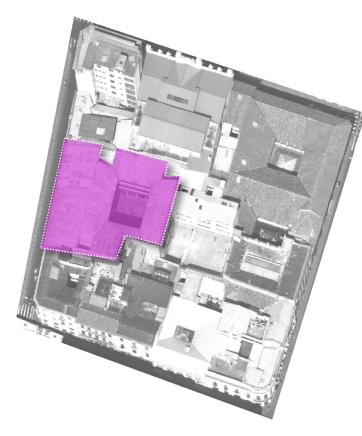


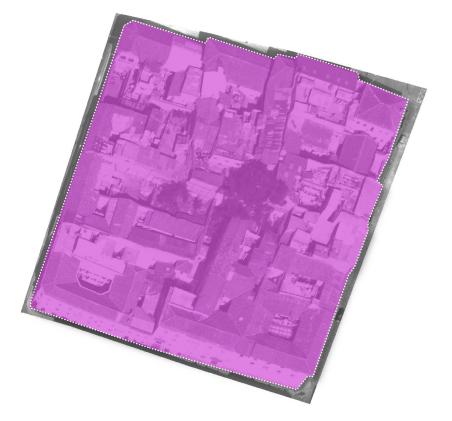


SCALES OF INTERVENTION

SCALE 1 :: Heritage Building

SCALE 2 :: Residential Block



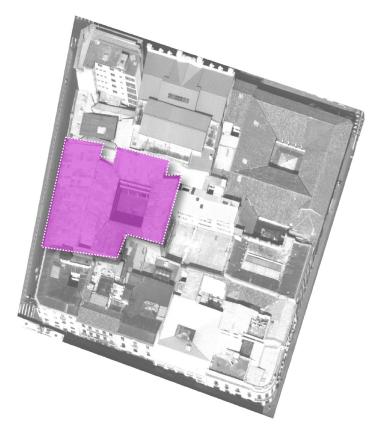


Historic City Core	Location	Historic "Buffer" Zone
Vacant	Occupancy	Vacancy Mix
1	Parcels	17
2,907 square meters	Area	7,564 square meters
Moderate	Terrain	Steep

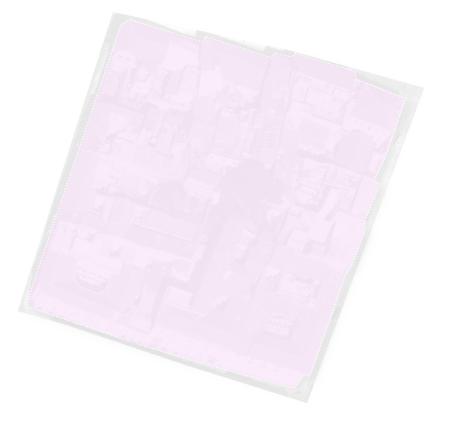
SCALES OF INTERVENTION :: SELECTION CRITERIA

SCALE 1 :: Heritage Building

SCALE 2 :: Residential Block



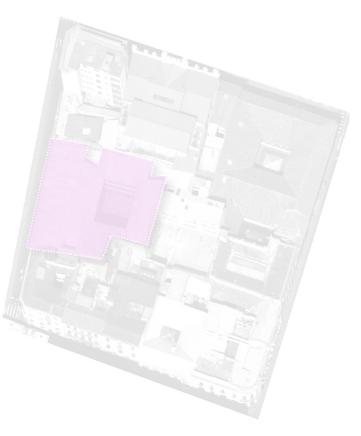
- Archetype of Republication Era architecture in CHQ
- Listed on the Local Register of Historic Places
- Owned by the government > Reserved for Urban Redevelopment plans within the context of the Master Plan for Rehabilitation of Historic Areas of Quito



- Plumbing and drainage infrastructure though in need to repair already exists and will need less intervention
- Prime location between Plaza Teatro and Plaza Grande, quick access to Trolley stations and future Metro stations
- Catalyst for change for other historic buildings

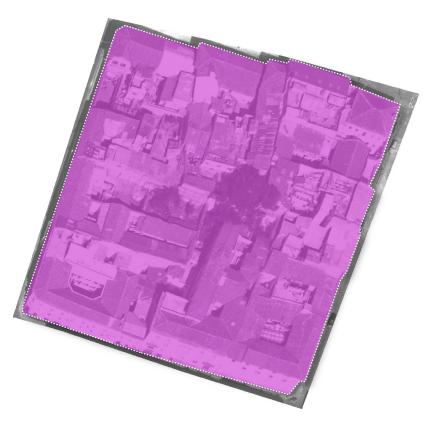
SCALES OF INTERVENTION :: SELECTION CRITERIA

SCALE 1 :: Heritage Building



- Strong example of typical use mix contained within a single block
- Aligned with Metropolitan District of Quito's priorities of "block revitalization" in the buffer zone
- More development flexibility beyond CHQ, high real estate value

SCALE 2 :: Residential Block



- Strong articulation of floors in the building alignment on a steep incline key for innovative rehabilitation strategies
- Prime location just beyond the CHQ for development; walking distance and transit access to historic core
- Stimulate change in nearby blocks

SCALE 1 HERITAGE BUILDING

CALLE MEJIA + CALLE GUAYAQIIL

SCALE 1 :: HERITAGE BUILDING

MINISTRY OF EDUCATION, CALLE MEJIA

BUILDING



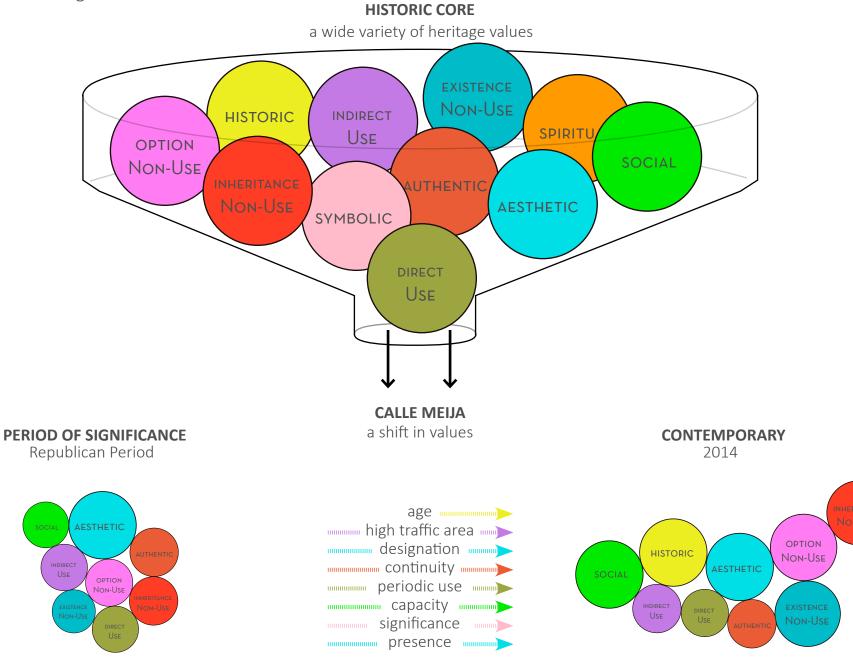
SITE



- Republican Era complex purchased in 1977 by the Ecuadorian State and National Government
- Ministry of Education transferred the property rights to the Ministry of Tourism in July 2013
- Falls under the Master Plan for Rehabilitation of Historic Areas of Quito and inscribed to the historic register in 2011
- Higher orders in 2014 prioritized site for "a comprehensive urban redevelopment project," negating intended use for Ministry of Tourism

VALUES: INTRODUCTION





SCALE 1 :: HERITAGE BUILDING

MINISTRY OF EDUCATION, CALLE MEJIA

JSE	DEMAN	2011	CRACIN HERING	ECONSERVATION BORFINE BEHABILIE	TION
HOUSING			\bigcirc		
PENSIONS / LOW-INCOME		\bigcirc	\bigcirc		
HOTEL		\bigcirc	\bigcirc	\bigcirc	
OFFICE		\bigcirc			
COMMERCIAL		\bigcirc			
EDUCATIONAL / INSTITUTIONAL		\bigcirc			
WAREHOUSE / STORAGE OTHER	\bigcirc	\bigcirc	\bigcirc		

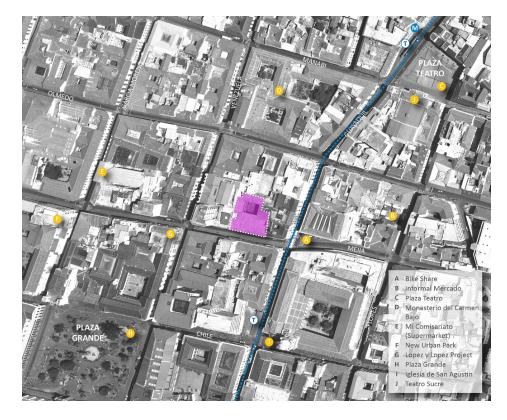
USE AND DEMAND



USE ANALYASIS

Assessment of the use potential for historic buildings based on the current condtiions of the Historic City Center, assessment of demand, regluatory overlays, and carrying capacity potential.

SITE



- Formally zoned H2 (D203H-70) Med. Density Residential
- Principle use ascribed to site R3 Zoning, High Density Residential
- Potential Housing Users: Low-income Families, Creative Class Singles
- Potential Institutions: Child Day Care Services

SCALE 1 :: HERITAGE BUILDING KEY PLAYERS

	ter parties	MERNA	OWA OROMUTATIONS	outenness Local C	URANNESS CORORATIC	Senation Commission	NH OF CANADONS	ROPS'S CONSERVICE	AIOS REALSH	NER WESOES	ants consum	es RESIDENT	HOUSEHO	15 TO18855
QUITO HISTORIC	ACTIVE					\bigcirc	\bigcirc		$\overline{}$		\bigcirc		$\overline{}$	\bigcirc
CENTER	POTENTIAL													
CALLE	ACTIVE				\bigcirc	\bigcirc		\bigcirc				\bigcirc	\bigcirc	\bigcirc
MEIJA	POTENTIAL						\bigcirc							



SCALE 1 :: HERITAGE BUILDING

CARRYING CAPACITY

ASSETS

STRUCTURE :: *FIRMITAS*







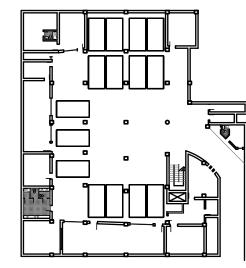
AESTHETICS :: VENUSTAS

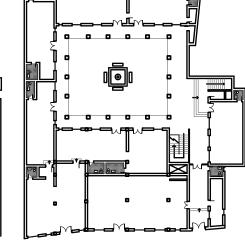


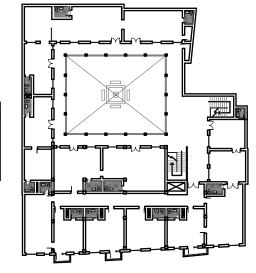


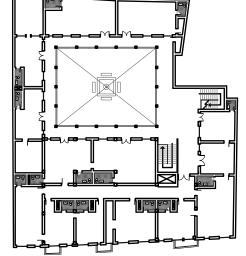


USES :: UTILITAS







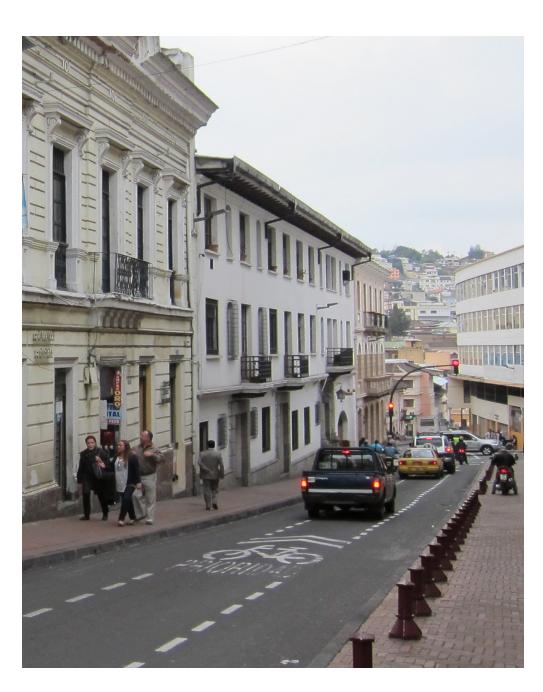


LEVEL OF PROTECTION DESIGNATED HISTORIC; HISTORIC PLAN

BUILDING REGULATION UNESCO; MUNICIPAL ZONING CODE

SCALE 1 :: HERITAGE BUILDING

DESIGN BRIEF



VALUE

- Historic
- Aesthetic
- Social
- Use
- Existence
- Option
- Inheritance

CARRYING CAPACITY

Medium :: Contextual Preservation

USE

Low-Medium Income Rental Residential Ground Floor Commercial / Institutional Social Services Storefronts Public / Private Open Space Development

PRECEDENT STUDIES

DESIGN :: FUNF HOFE

- Located within Munich's historic core
- Creation and renovation of interior arcades and courtyards
- Juxtaposition of contemporary and historic architecture
- Integrates retail, housing, and offices
- Successful example of mixed-use intervention in to historic city center

MANAGEMENT :: MITCHEL-LAMA PROGRAM

- Affordable Cooperative Housing Program provides developers with construction loans and mortgages for development of affordable cooperatives
- Maximum of 25% of development at market price
- Currently 97 Cooperatives in New York City
- Resulted in economically and racially diverse developments
- Resulting stability has translated into increased property values of developments and surround area



Funf Hofe Entrance :: MUNICH, Germany



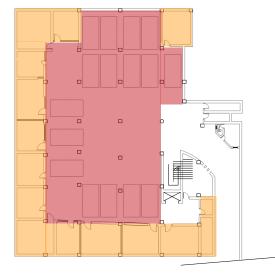
Housing Cooperative :: NEW YORK, New York, United States

SCALE 1 :: HERITAGE BUILDING

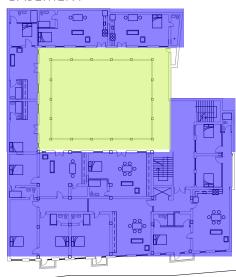
CONCEPTUAL

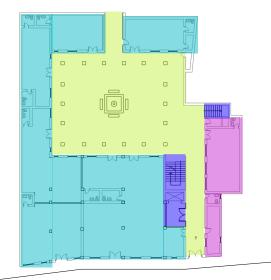
Option 3 :: HIGH Intervention

- Introduce mixed use
- Adapt existing offices for ground floor commercial, office, or social service facilities; develop 2 floors of residential units above public 1st floor
- Explore potential for office spaces or community use rooms in garage
- Emphasize public realm and connectivity
- Redefine the interior plaza (while retaining historic integrity) through its connectivity to the rest of the block
- Break through a single unit on back to link to existing arcade, opening the plaza to the public

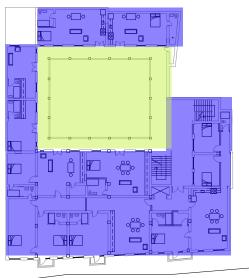






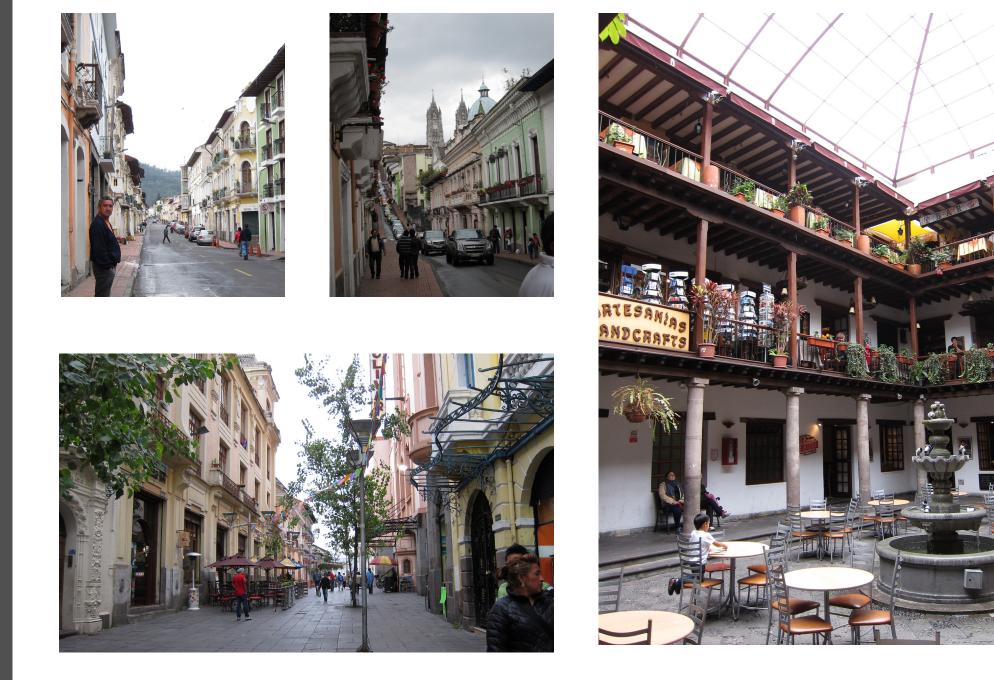


GROUND FLOOR



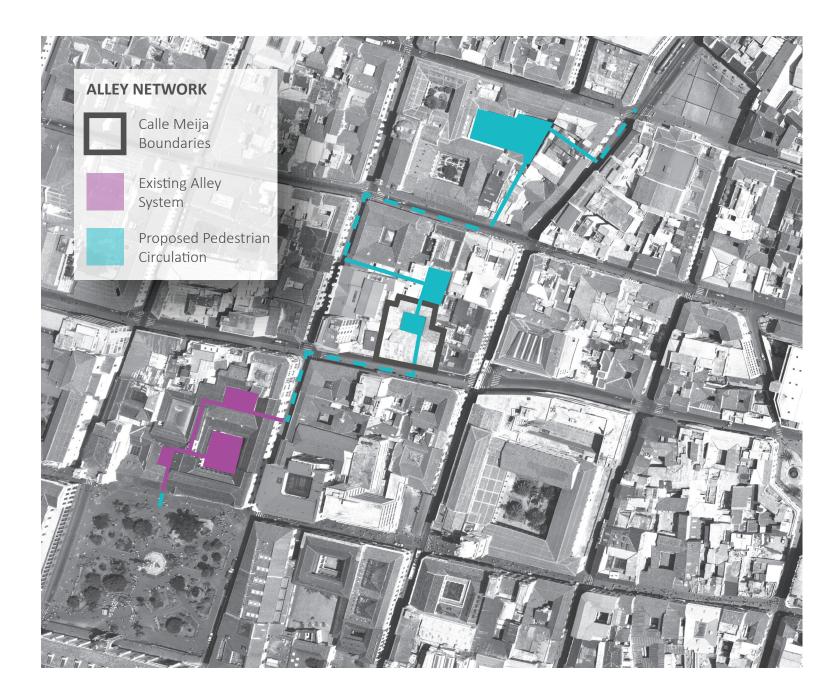
SECOND FLOOR

INSPIRATION PEDESTRIAN CIRCULATION IN CHQ



SCALE 1 :: HERITAGE BUILDING

ALLEY SYSTEM



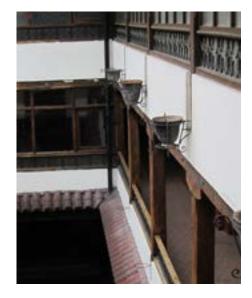
BLOCK SYSTEM



PHYSICAL ELEMENTS TO KEEP DUE TO CONTEXT, TYPOLOGY AND UNIQUE ARCHITECTURAL ELEMENTS

















PHYSICAL ELEMENTS TO ALTER/REMOVE









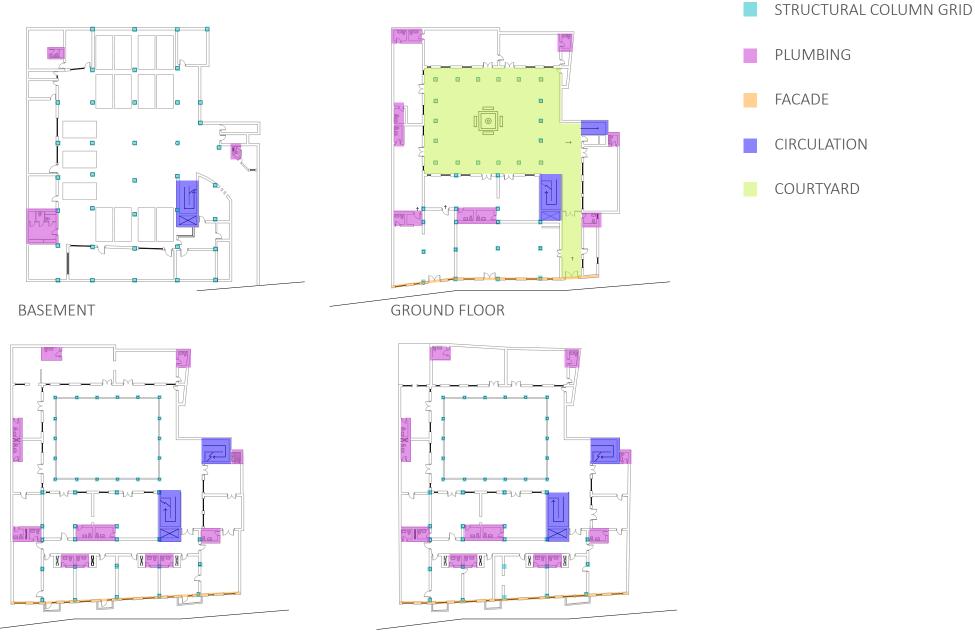








EXISTING ARCHITECTURAL CONDITIONS



FIRST FLOOR

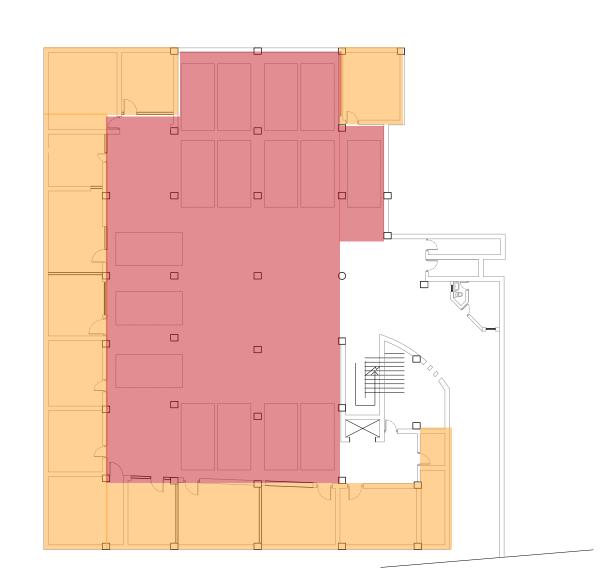
SECOND FLOOR

CALLE MEIJA **PROPOSED INTERVENTION**



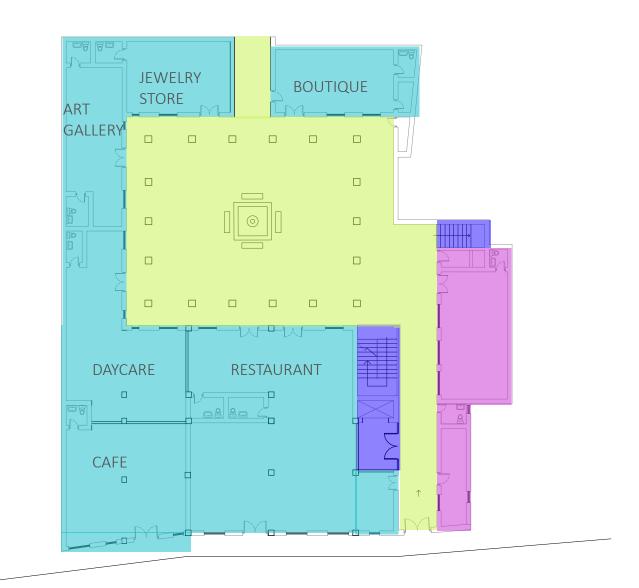
SECOND FLOOR

PROPOSED INTERVENTION :: BASEMENT



- STORAGE :: 4100 SF
- RESIDENTIAL PARKING :: 5550 SF
 - INDIVIDUAL STORAGE SPACES FOR RESIDENTS OR COMMERCIAL TENANTS

PROPOSED INTERVENTION :: GROUND FLOOR



PUBLIC COURTYARD :: 3800 SF

COMMERCIAL/RETAIL SPACE :: 5700 SF

- RESTAURANT
- CAFE
- DAYCARE
- ART GALLERY
- BOUTIQUE
- JEWELRY STORE
- RESIDENTIAL AREAS :: 450 SF
 - ELEVATOR LOBBY
 - STAIRS

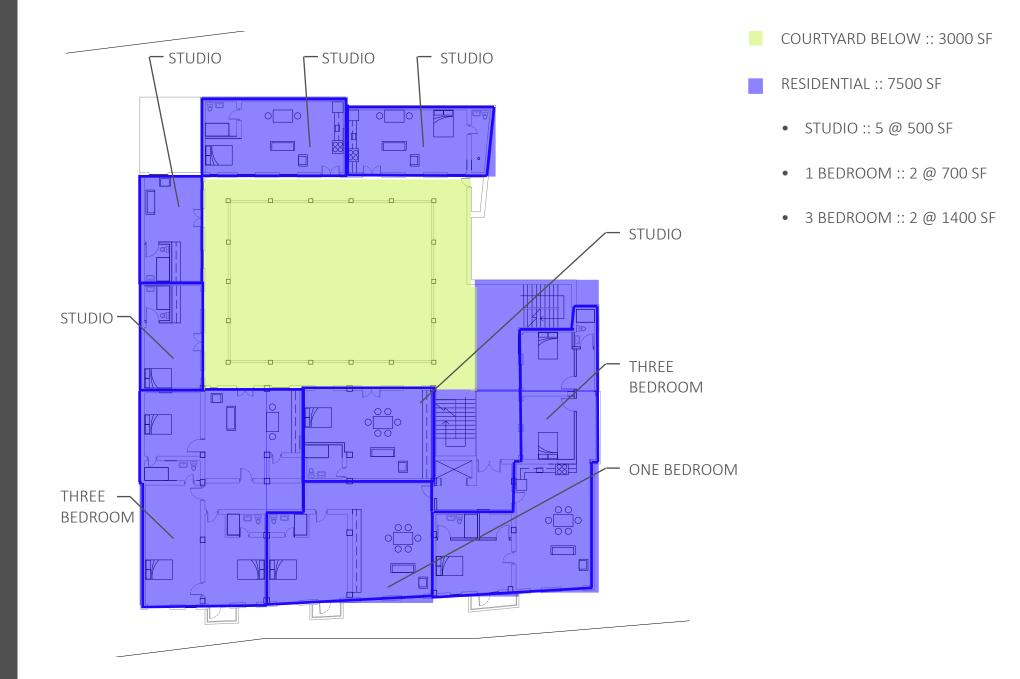
MANAGEMENT OFFICE :: 880 SF

PROPOSED INTERVENTION :: FIRST FLOOR

COURTYARD BELOW :: 3000 SF - ONE BEDROOM **STUDIO** - STUDIO RESIDENTIAL :: 8000 SF 0 0 0 0 • STUDIO :: 4 @ 500 SF • 1 BEDROOM :: 2 @ 700 SF D -0 • 3 BEDROOM :: 2 @ 1400 SF STUDIO đ STUDIO -1 THREE BEDROOM 0000 \rightarrow ONE BEDROOM THREE -0000 BEDROOM 80 0000 Ĥ. V

ERITAGE ASSETS IN HISTORIC CITY CENTERS **QUITO** :: ACTIVATING H ADAPTIVE REHABILITATION + HOUSING

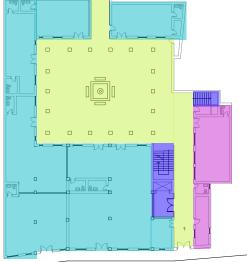
PROPOSED INTERVENTION :: SECOND FLOOR



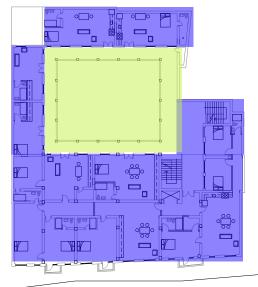
ERITAGE ASSETS IN HISTORIC CITY CENTERS ACTIVATING H **QUITO** :: ADAPTIVE REH

CALLE MEIJA PROPOSED INTERVENTION





GROUND FLOOR



COMMERCIAL/RETAIL SPACE

- Restaurant
- Cafe
- Daycare
- Art Gallery
- Boutique
- Jewelry Store
- MANAGEMENT OFFICE
- STORAGE
- RESIDENTIAL
 - Studio :: 9 :: 9 Occupants
 - 1 Bedroom:: 4 :: 8 Occupants
 - 3 Bedroom :: 4 :: 20 Occupants
 - 37 Total Occupants
- PUBLIC COURTYARD
- RESIDENTIAL PARKING

FIRST FLOOR

SECOND FLOOR

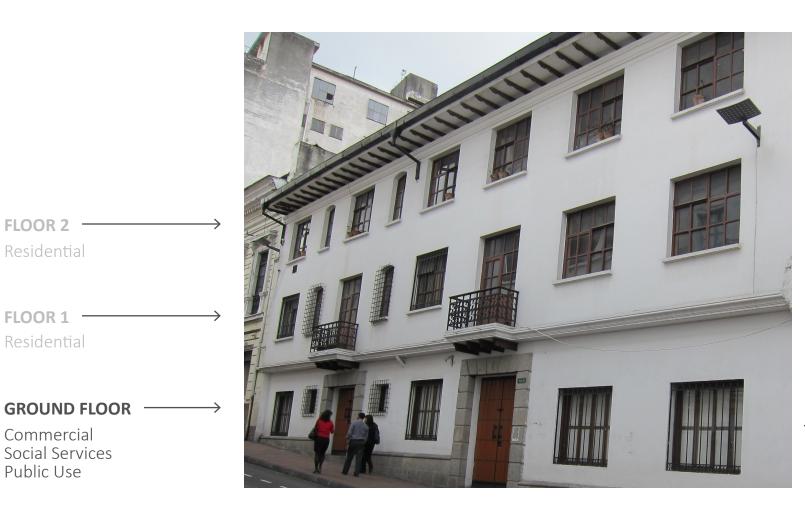
HORIZONTAL MANAGEMENT STRATEGY



SUB-STRUCTURE ----->

Parking Storage Community Space

HORIZONTAL MANAGEMENT STRATEGY



PUBLIC / PRIVATE
MANAGEMENT
ENTITY

SUB-STRUCTURE ------> Parking Storage Community Space

TAKE-AWAYS

- Adapt ground floor for mixed-uses, including commercial and institutional programs
- Provide storage spaces in the sub-structure to maximize ground floor activity
- Construct multiple apartment sizes to attract creative-class singles and low-income families
- Include a horizontal management strategy to encourage full occupancy of the building
- Limit parking space availability to one per apartment to encourage transit-oriented development
- Use an alley system to connect Plaza Grande and Plaza Teatro through this block and to increase public access to this heritage asset



SCALE 2 BUFFER ZONE BLOCK

ANILLO MANZANA

Block 48

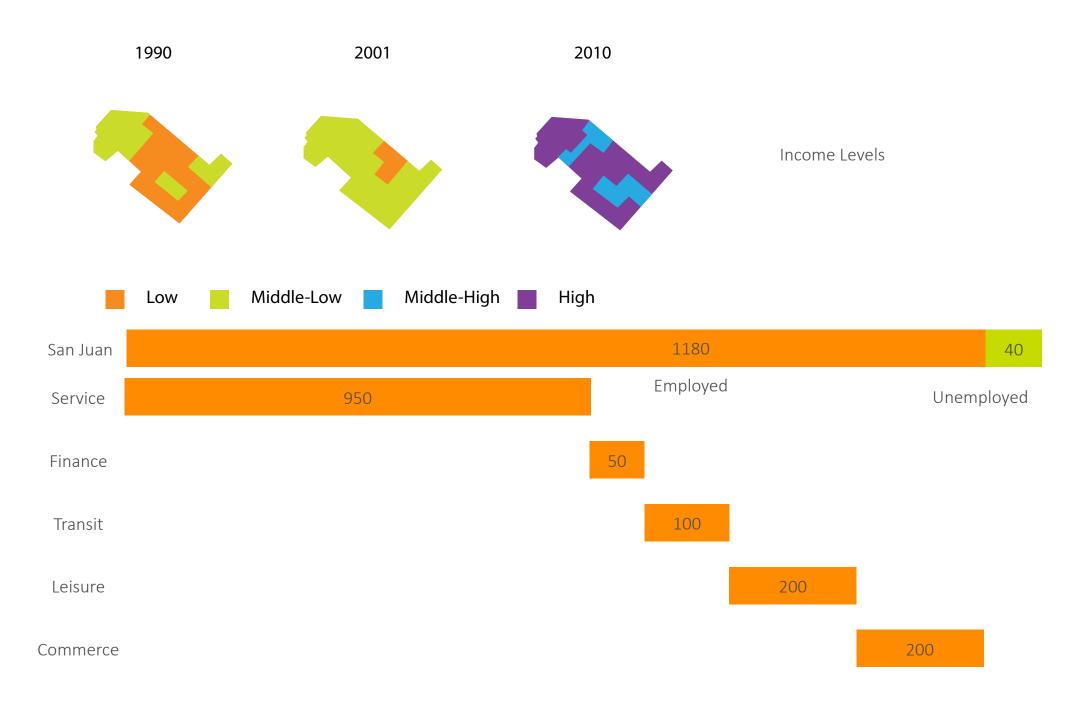




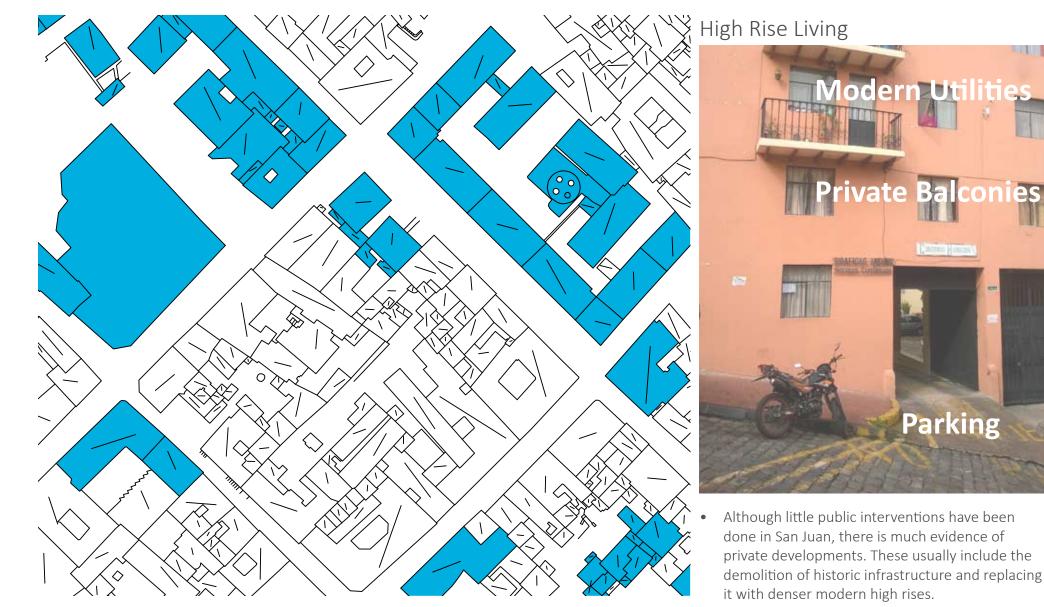


- Entire block is zoned for residential
- Surrounding areas are also residential however include more contemporary high-rise development.
- Our block is unique in that it contains almost entirely historical structures.
- There is evidence that many of these buildings are occupied however the condition of these structures is questionable.
- The steep topography of the site has made it difficult for businesses to develop on the ground floors and on most structures the basement level has the most contact with the street not the first floor.

Block 48 Demographics



Block 48 Context

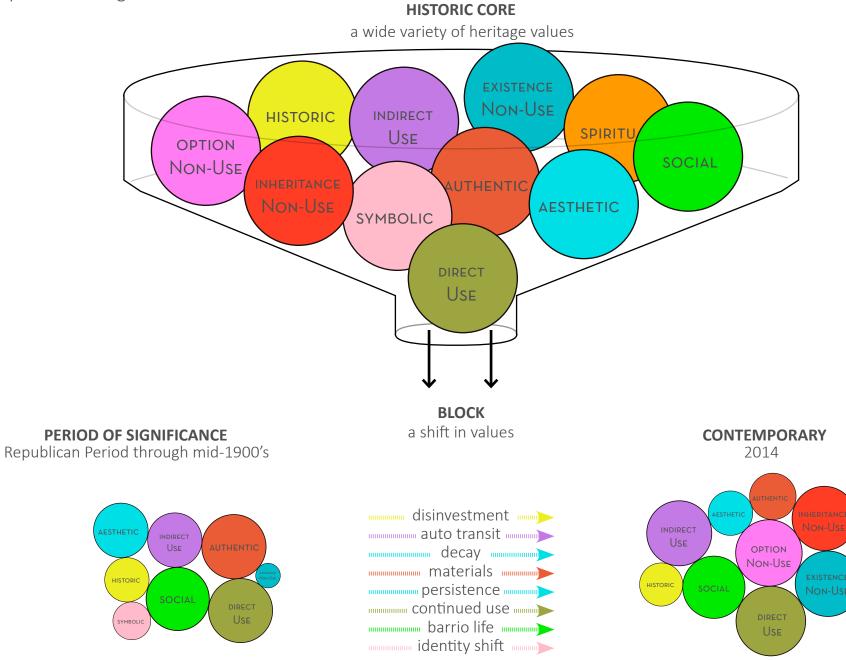


These tend to be exclusively residential •

es

VALUES: INTRODUCTION

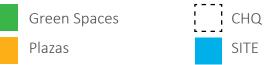




USE	DEMAN	2011	CARACITY HERITAG	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL	\bigcirc				
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER			\bigcirc		

USE AND DEMAND BREAKDOWN ANALYSIS





USE ANALYASIS

RESEN

BSEN

Assessment of the use potential for historic buildings based on the current condtiions of the Historic City Center, assessment of demand, regluatory overlays, and carrying capacity potential.

SCALE 2 :: ANILLO MANZANA KEY PLAYERS

	ker purites	MIENA	OWA OREANIA ONS	oreanness Local Co	CORORATIC	Selles Institutions	NHY ORCHWERTON'S	ROPS'S CONSERVE	ORS REPLESS	IE INVESORS NERCH	ants consum	eas RESIDENTS	HOSEIN	JUS TOJRES
QUITO HISTORIC CENTER	ACTIVE					\bigcirc	$\overline{}$		\bigcirc		$\overline{}$		\bigcirc	$\overline{}$
	POTENTIAL													
ANILLO MANZANA	ACTIVE	\bigcirc				\bigcirc		\bigcirc		\bigcirc	\bigcirc		\bigcirc	
	POTENTIAL	\bigcirc					\bigcirc	\bigcirc						



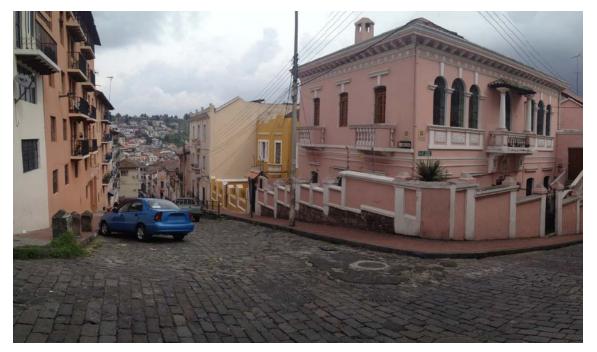
SCALE 2 :: ANILLO MANZANA

CONTEXT



SITE OVERVIEW

- Variable occupancy
- Structures date from late 1800's through mid-20th Century
- San Juan neighborhood suffers from overabundance of ground-floor warehouse spaces
- Many historic buildings near Basilica have been demolished to make way for new construction high-rise apartment buildings.





SCALE 2 :: ANILLO MANZANA

CARRYING CAPACITY



FIRMITAS

- Most buildings have intact facades dating from original construction.
- Palimpsest and steeply sloped site have led to poor building conditions at center of block.

UTILITAS

- Ground Floor Commercial / Retail presence
- Mixed Income residential ownership

VENUSTAS

- Several buildings exhibit authentic historic architectural details
- Many buildings have been renovated with modern materials, using plaster to emulate stone, etc.

SCALE 2 :: ANILLO MANZANA

DESIGN BRIEF



VALUE

- Historic
- Aesthetic
- Social
- Authentic
- Use
- Inheritance

CARRYING CAPACITY

Low to Med :: Rigorous, Typological, Contextual

USE

Mixed Income Residential Ownership Ground Floor Commercial / Retail Block Synchronization

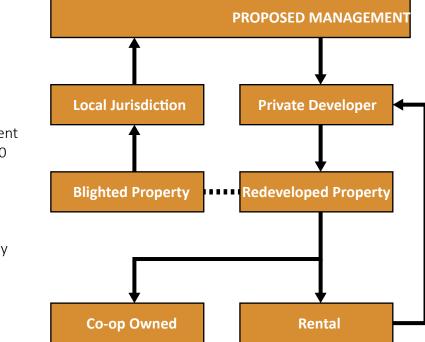
ANILLO MANZANA PRECEDENT STUDY

Affordable Housing Cooperative Program

Affordable Housing Cooperative Program/ Mitchell-Lama Program New York, New York

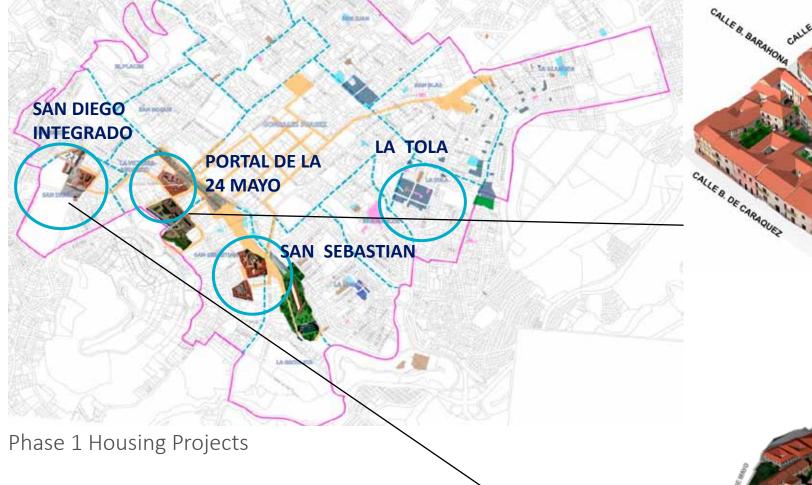
The Affordable Cooperative Housing Program in New York provides developers with construction loans and a permanent mortgages for the development of affordable cooperatives. These loans are financed by the NYC Housing Development Corporation. In return for the support, developers are required to build at least 50 affordable units and to sell a maximum of 25% of the total units at market price. The affordable units are available to tenants with up to 175 percent of the AMI (Area Median Income). There are currently 97 cooperative in New York City with more than 44,600 total units.

The program has resulted in developments that are both economically and racially diverse. If a resident's economic situation improves, they are not required to move out of the building, but rather must pay a surcharge. This policy helps to develop economic diversity, while forming stable communities. This stability then translates into increased property values of both the developments and the surrounding buildings.





Precedents



- Current developments already underway from the municipality, targeting low-income families.
- These Projects also look to develop and entire city block at once combining private and public space.
- Our project differs from these in that it targets the younger creative class and therefore affords alternate amenities that would be more desirable to that demographic.



CALLE LOJ

AV. 24 DE MAYO

Design Precedents

Quito Museum



- Like our site this project also looked at connected existing historical infrastructure with new additions that would create a cohesive part to whole dynamic on the site.
- Shows a contrast between contemporary and historic construction.
- Uses new construction as a tool to create more courtyard spaces as well as roof terraces.



LOW-INCOME HOUSING

Low-Income housing

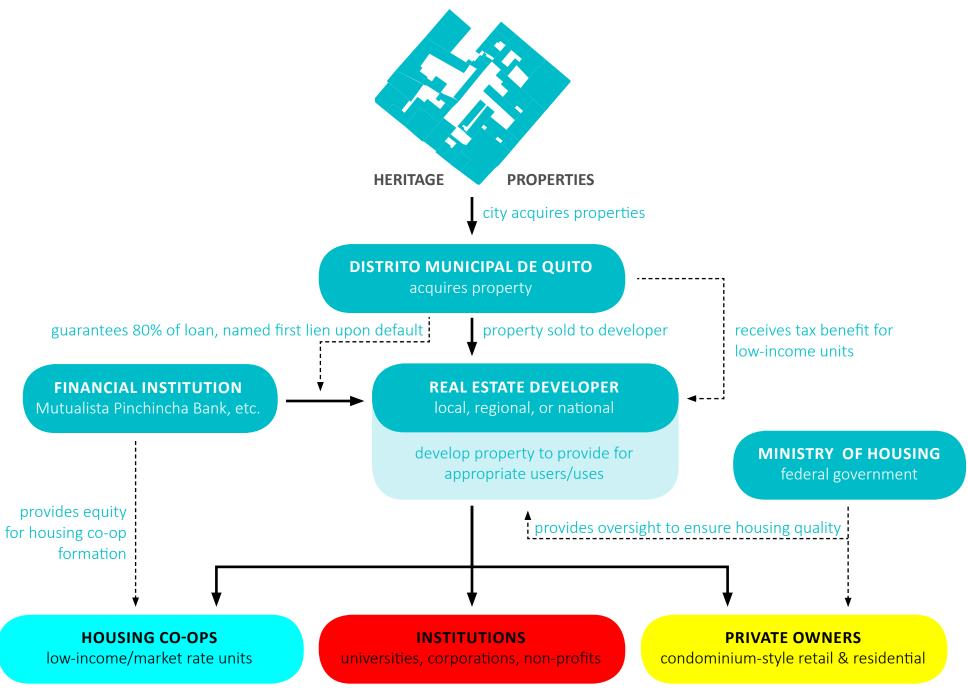
PRIVATE OWNERS

- Middle-income (young professionals)
- Retail space
- Packaging/Marketing Center
- Co-op public space
- Rotating retail incubator space

INSTITUTIONS

- Computer lab and Technology
- Conference/Meeting Rooms
- Space Share for Start-ups
- Classrooms
- Partnership with tech. developer

MANAGEMENT STRUCTURE



ANALYSIS AND PROPOSAL

GIANFRANCO CANIGGIA & GIAN LUIGI MAFFEI BUILDING AS HISTORIC INDIVIDUATION OF THE TYPOLOGICAL PROCESS FROM ELEMENTARY MATRIXES TO COMPLEX DERIVATION

Copresence

Direct spatial correlation between two objects "the moment in which there are several buildings in the same moment in adjoining spaces"

Derivation

Indirect temporal correlation between two objects "the diachronic relation between two objects of the same nature"

Serial

Interchangeable and liable to repetition "The characteristic of an aggregation consisting of repeated, interchangeable elements"

Organic

Neither repeatable nor interchangeable "The nature of an aggregation consisting of elements identified on account of their peculiar position and shape"





"Macromanzana" Megablock





Longitudinal block





Vertical block





"Micromanzana" Microblock



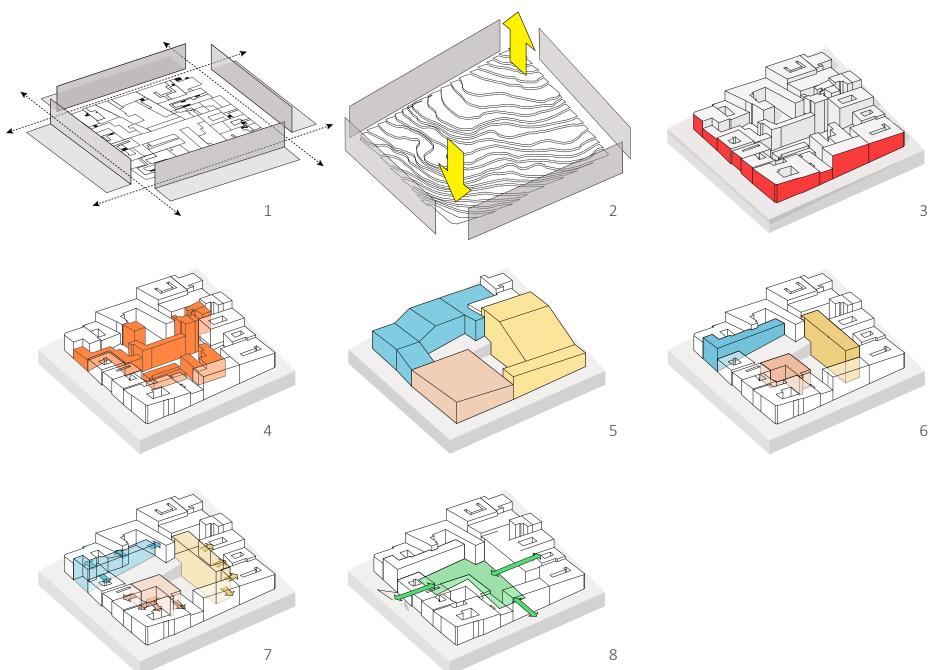


Irregular block

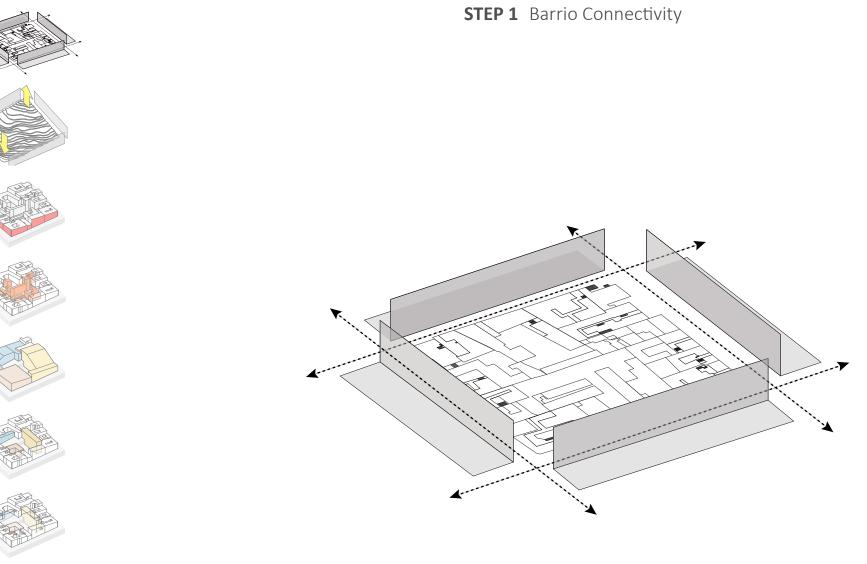




ANALYSIS AND PROPOSAL



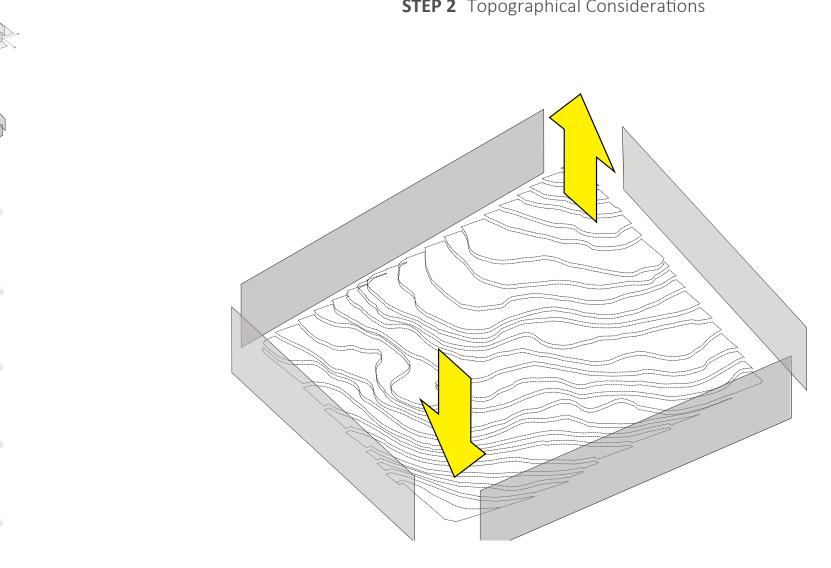
ANALYSIS AND PROPOSAL





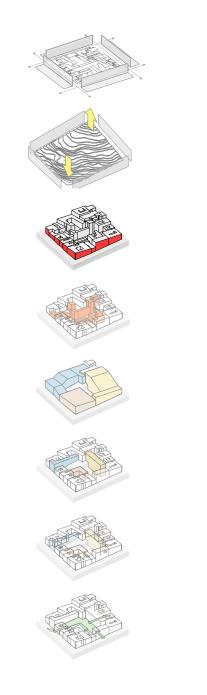
QUITO :: ACTIVATING HERITAGE ASSETS adaptive rehabilitation + housing in historic city centers

ANALYSIS AND PROPOSAL

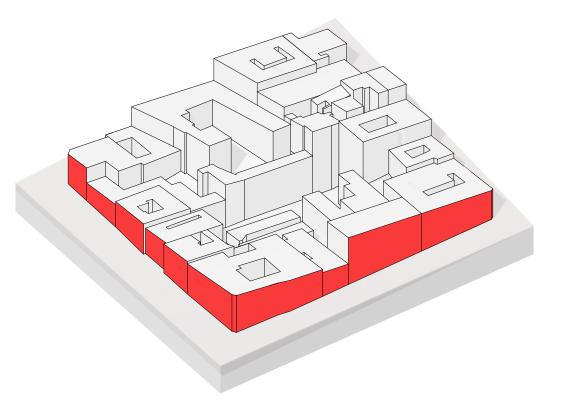


STEP 2 Topographical Considerations

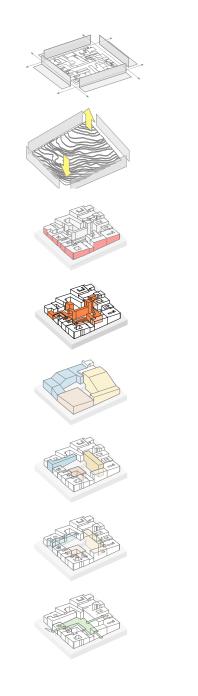
ANALYSIS AND PROPOSAL



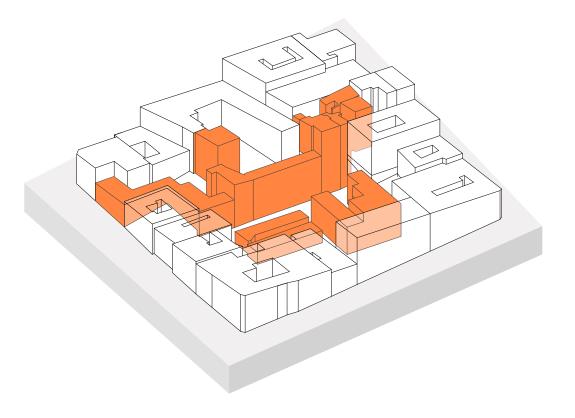
STEP 3 Existing buildings exhibit non-porous street-facing facades



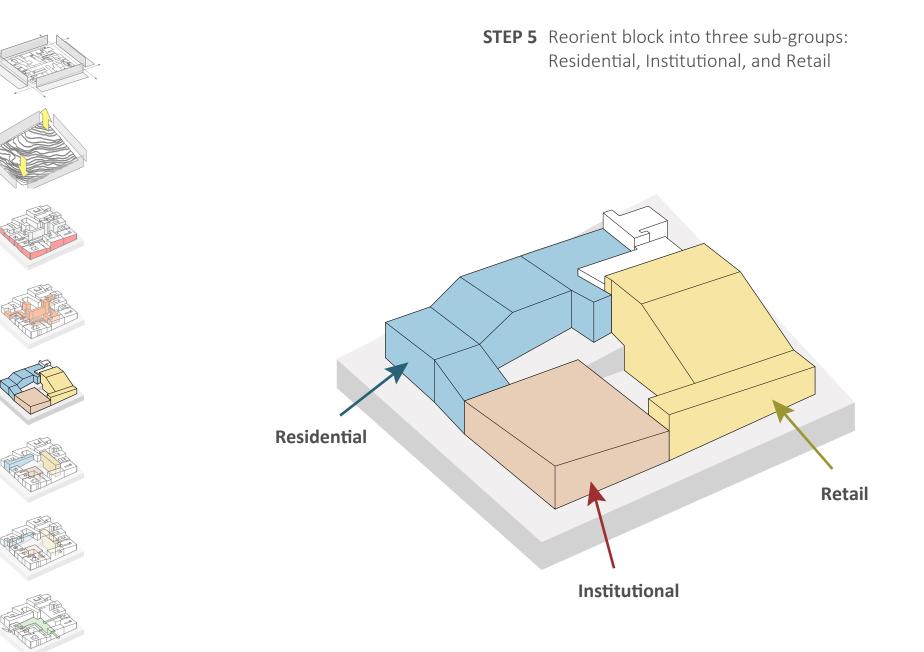
ANALYSIS AND PROPOSAL



STEP 4 Block interior contains non-contributing palimpsest that can be removed

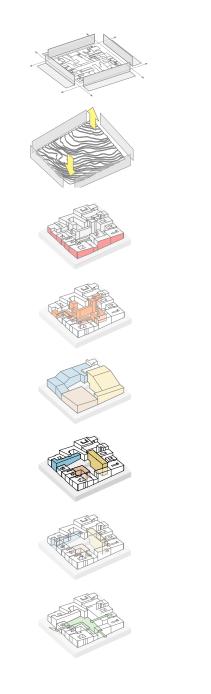


ANALYSIS AND PROPOSAL

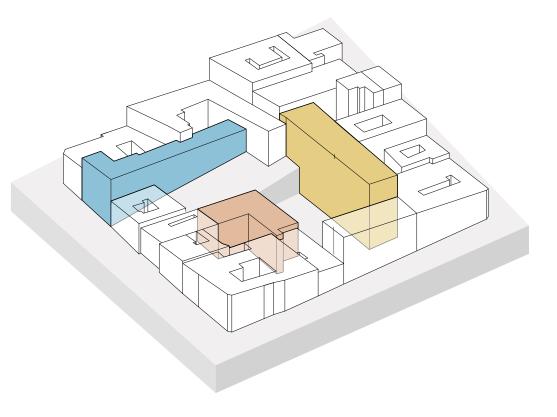


QUITO :: ACTIVATING HERITAGE ASSETS adaptive rehabilitation - housing in historic city centers

ANALYSIS AND PROPOSAL

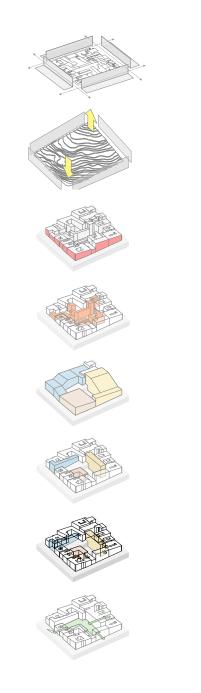


STEP 6 Connect subdivided block with service/redevelopment structures.

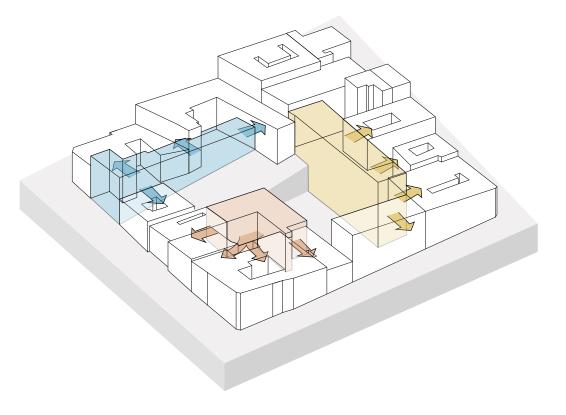


BLOCK STUDY

ANALYSIS AND PROPOSAL

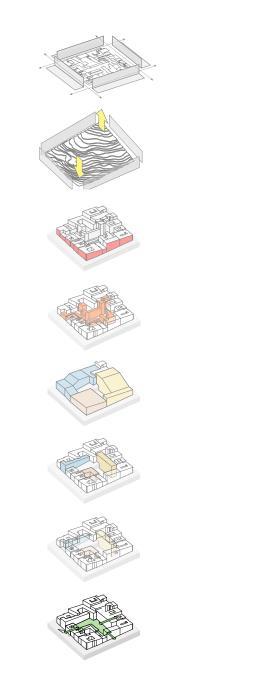


STEP 6 Redevelopment structures link together existing buildings..

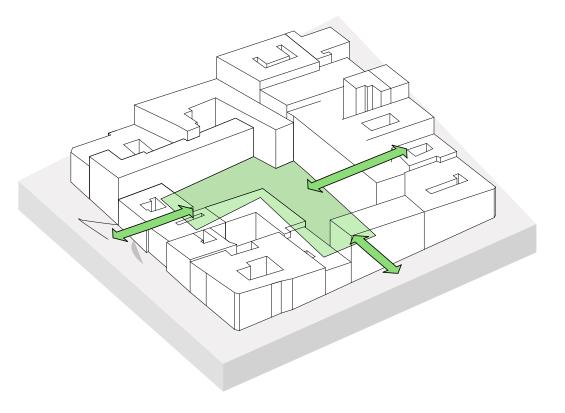


BLOCK STUDY

ANALYSIS AND PROPOSAL



STEP 7 Central open space functions as private community block space



DEMAND AND USE

PROGRAM ANALYSIS

USE BREAKDOWN

HOUSING CO-OPS

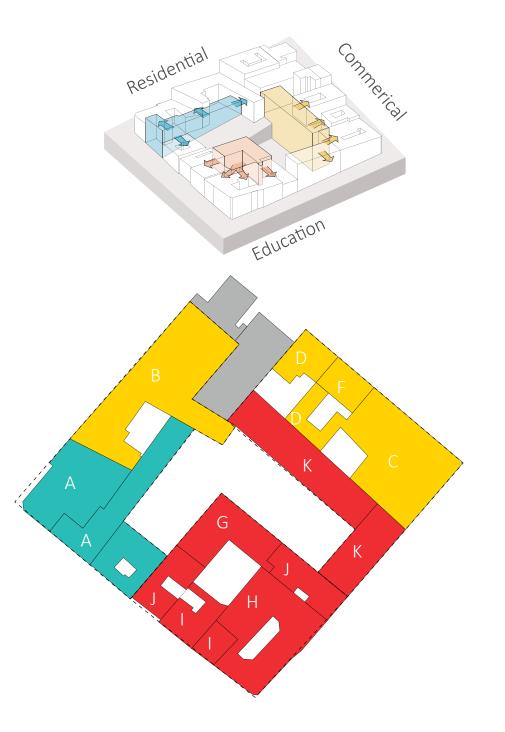
A · Low-Income housing

PRIVATE OWNERS

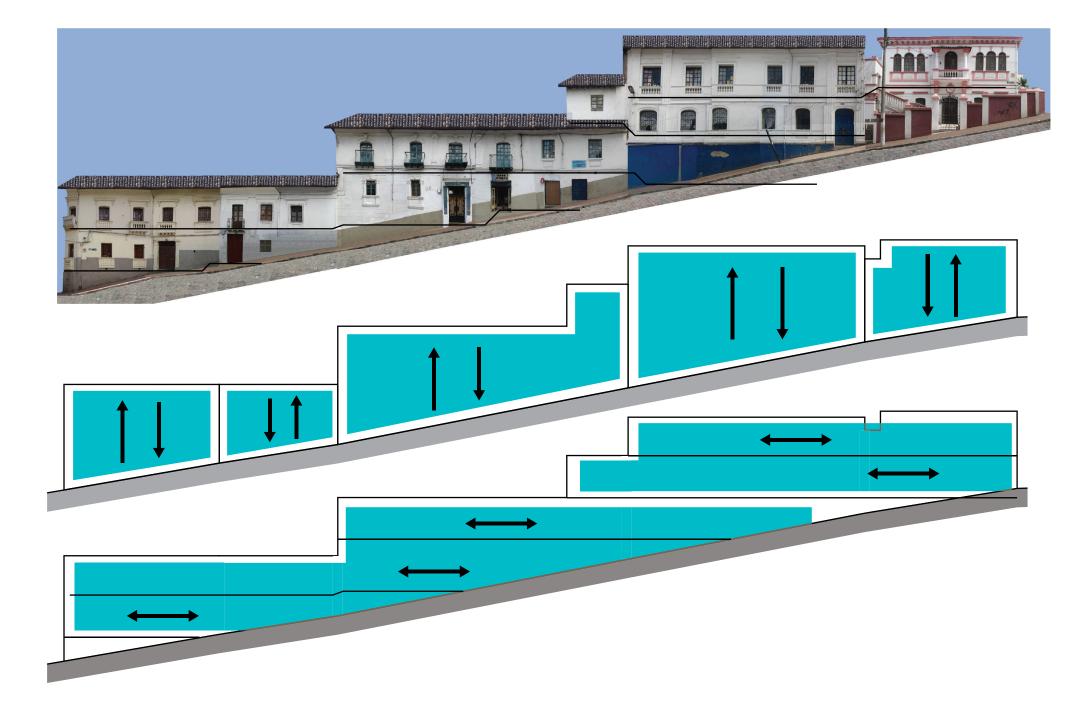
- B Middle-income (young professionals)
- C Retail space
- Packaging/Marketing Center
- Е Co-ор public space
- Rotating retail incubator space

INSTITUTIONS

- ^G• Computer lab and Technology
- H Conference/Meeting Rooms
- Space Share for Start-ups
- J Classrooms
- Partnership with tech. developer

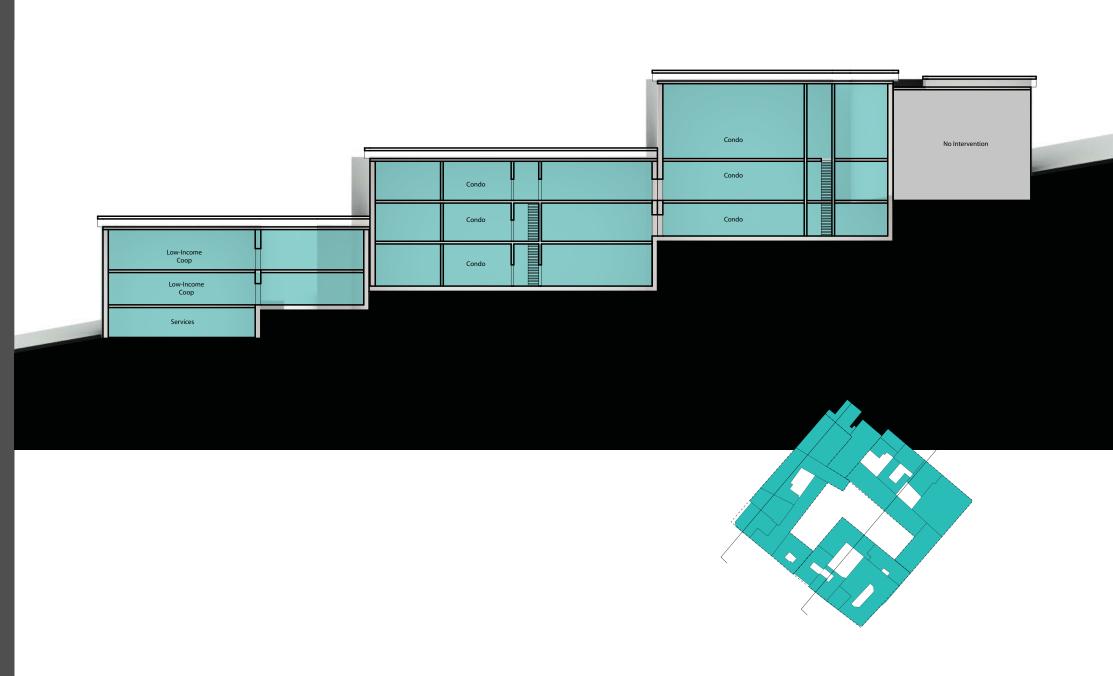


HORIZONTAL INTEGRATION



Section

Horizonal Organization of Residences



Section

Education and Commercial Sectors







TAKEAWAYS



POLICY SYSTEM

Opportunities for innovation in ownership structure, including housing co-ops. Consider policy catalysts to spur private sector urban redevelopment.



ZONING CODES

Regulate and enforce codes that promote total-building occupancy. Make full use of mixed-use properties.



LOGIC OF FLEXIBILITY

Historic buildings can adapt a wide range of uses; consider alternative models to demolition and ossification.



APPENDIX A PRECEDENT STUDIES

10 CASES OF ADAPTIVE REHABILITATION WORLDWIDE

SCALES OF FUNCTION

- Funf Hofe :: Munich, Germany
- Gasometer :: Vienna, Austria

ATTRACTING THE CREATIVE CLASS

- 22@Barcelona :: Barcelona, Spain
- Kendall Square :: Cambridge, MA, US

RESIDENTIAL DEVELOPMENT IN HISTORIC CENTERS

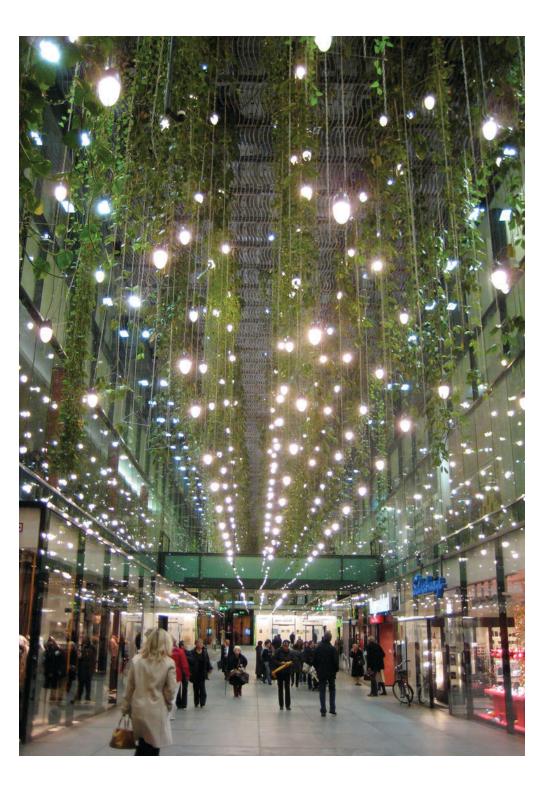
- HDDC :: Atlanta, GA, US
- Third Urban Development Project :: Tunisia

SCATTERED SITES MANAGEMENT

- Philadelphia Housing Authority :: Philadelphia, PA, US
- Mitchell-Lama Program :: New York, NY, US

DEGREES OF PRIVACY

- French Quarter :: New Orleans, LA, US
- Chiado :: Lisbon, Portugal



SCALES OF FUNCTION

FUNF HOFE

- Located within Munich's historic core
- Creation and renovation of interior arcades and courtyards
- Juxtaposition of contemporary and historic architecture
- Integrates retail, housing, and offices

GASOMETER

- Reuse of four former gas tanks as commercial and residential towers
- Commercial, retail, and entertainment spaces on lower floors with residences above
- Apartments and student dormitories
- All spaces face inward to central atrium
- Developed a "city within a city" community



Funf Hofe Entrance :: MUNICH, Germany



Gasometer :: VIENNA, Austria

ATTRACTING THE CREATIVE CLASS

22@BARCELONA

- Planning ordinance for the redevelopment of abandoned industrial area
- New zoning designation to initiate redevelopment
- Increase public and green spaces
- Subsidized housing
- Reuse of existing buildings for new technology and knowledge based industries

KENDALL SQUARE

- Existing center for biotechnology and knowledge based businesses
- Existing public transit infrastructure
- Goals: nurture innovation culture, promote sustainability, increase housing diversity
- Future development grounded in existing culture and community strengths



22@Barcelona District :: BARCELONA, Spain



Kendall Square :: CAMBRIDGE, Massachusetts, United States

RESIDENTIAL DEVELOPMENT IN HISTORIC CENTERS

HISTORIC DISTRICT DEVELOPMENT CORPORATION

- Goals: prevent displacement of existing residents; preserve neighborhood's historic character; create mixed-income housing communities.
- Planned Developments to control neighborhood growth and evolution
- Organization led by residents with a focus on the community as a whole
- Collaboration with other entities for guidance and support in new project types

THIRD URBAN DEVELOPMENT PROJECT - TUNISIA

- Goals: improved housing and services for low income residents; modify housing polices to reach more of low-income population; strengthen existing housing agencies to better function; implement a national approach to housing
- Rehabilitation of substandard settlements in four cities
- Housing credits for construction of dwellings in specified locations



Neighborhood Rehabilitation Proposal by HDDC :: ATLANTA, Georgia, United States



Housing Rehabilitation :: HAFISA, Tunisia

• Technical assistance to involved institutions

SCATTERED SITES MANAGEMENT

PHILADELPHIA HOUSING AUTHORITY

- Public housing integrated into city neighborhoods with private renters and homeowners
- Historic sites preserved according to PHC guidelines
- Opportunity to purchase homes with economic and personal support during and after purchasing process
- Initial opposition from community with decreased property values as main argument

MITCHEL-LAMA PROGRAM

- Affordable Cooperative Housing Program provides developers with construction loans and mortgages for development of affordable cooperatives
- Maximum of 25% of development at market price
- Currently 97 Cooperatives in New York City
- Resulted in economically and racially diverse developments
- Resulting stability has translated into increased property values of developments and surround area



Scattered Sites Development :: PHILADELPHIA, Pennsylvania, United States



Housing Cooperative :: NEW YORK, New York, United States

DEGREES OF PRIVACY

FRENCH QUARTER, NEW ORLEANS

- Oldest neighborhood in New Orleans
- First floor commercial or retail with residential above
- Multi-story buildings with iron galleries on upper levels
- Galleries provide shade and private outdoor spaces for the residences

CHIADO

- Reconstruction of historic district after large-scale fire
- Reintroduction of residences into building structure
- First floor retail, second floor offices, third and fourth floors residential
- Units face both city streets and new public, pedestrian only courtyards



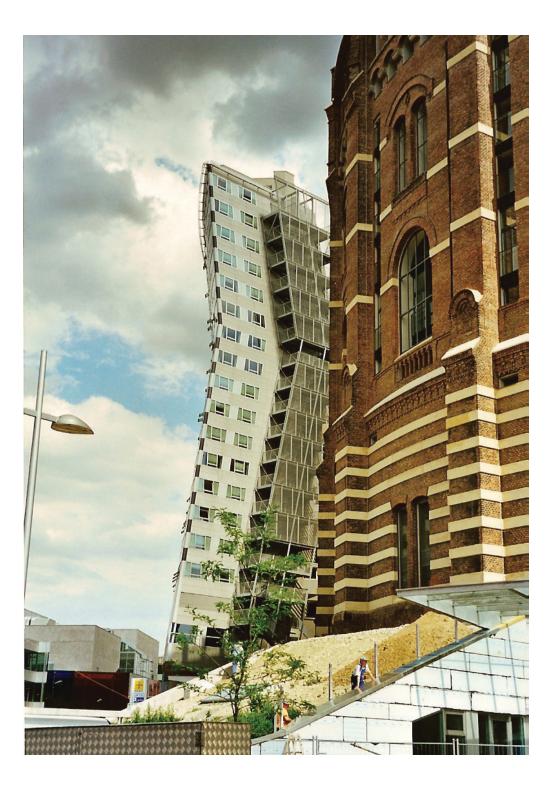
French Quarter :: NEW ORLEANS, Louisiana, United States



Chiado :: LISBON, Portugal

TAKE-AWAYS

- Community involvement and support of redevelopment process promotes a more successful and sustainable project
- Multiple organizations, both public and private, working together on one project or goal
- Create a strengthened sense of community through maintaining existing residents and minimizing turn-over of future residents
- Build upon existing cultural groundwork of neighborhood
- Successful commingling of historic structures and new contemporary interventions



APPENDIX B SCALE 1 FRAMEWORK

USE AND DEMAND ANALYSIS

USE	DEMAN	20111	COPACITY HERITAG	ECONSERVATION ADAPTIVE RE	HABILITATION
HOUSING			\bigcirc		
PENSIONS / LOW-INCOME					
HOTEL					
OFFICE		\bigcirc			
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					

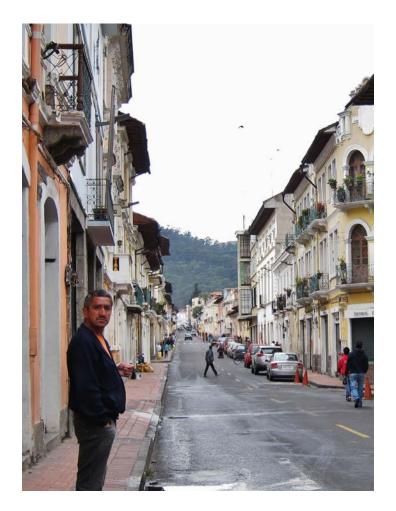






USE ANALYASIS

USE	DEMAN	20MM	CAPACITY HERITAG	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING			\bigcirc		
PENSIONS / LOW-INCOME					
HOTEL	\bigcirc				
OFFICE	\bigcirc				
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					





USE ANALYASIS

USE	DEMAN	201111	CARACITY HERITAC	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME		\bigcirc			
HOTEL					
OFFICE					
COMMERCIAL		\bigcirc			
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					

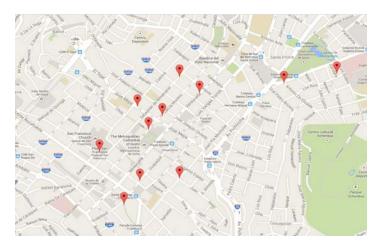




USE ANALYASIS

USE	DEMAND	201111	CAPACITY HERITAC	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL					
OFFICE	\bigcirc				
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					







USE ANALYASIS

USE	DEMAN	TOWN	CAPACITY HERITAC	ECONSERVATION ADAPTIVE REL	A BILIANON
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL					
OFFICE	\bigcirc	\bigcirc			
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL		\bigcirc			
WAREHOUSE / STORAGE OTHER					



USE ANALYASIS

USE	DEMAN	20MM	CARACITY HERITAC	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL					
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					







USE ANALYASIS

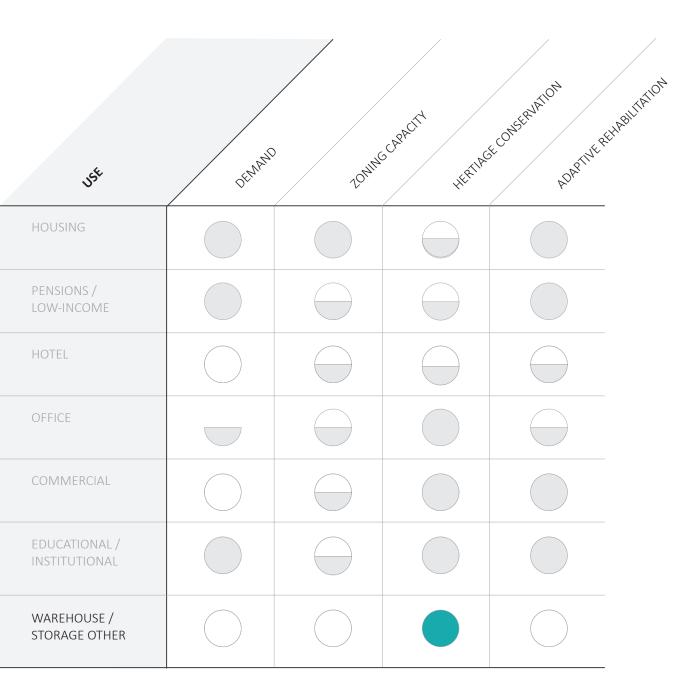
USE	DEMAN	20111	CAPACITY HERITAG	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL					
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					







USE ANALYASIS



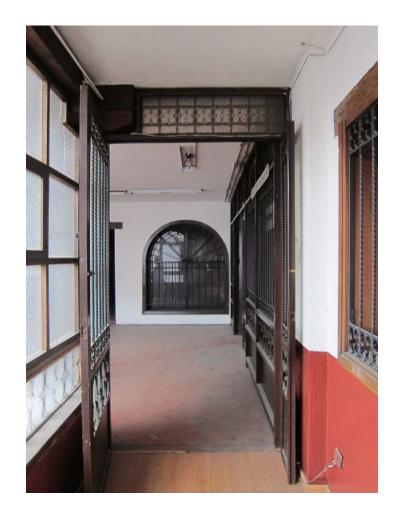






USE ANALYASIS

			ARACITY	ECONSERVATION ADAPTIVE RE	HABILTATION
USE	DEMANU	20MIN	CAPACITY HERITAG	ADAPTIVE.	
HOUSING					
PENSIONS / LOW-INCOME			\bigcirc		
HOTEL		\bigcirc			
OFFICE					
COMMERCIAL		\bigcirc			
EDUCATIONAL / INSTITUTIONAL		\bigcirc			
WAREHOUSE / STORAGE OTHER					



USE ANALYASIS

APPENDIX C SCALE 2 FRAMEWORK

USE AND DEMAND ANALYSIS

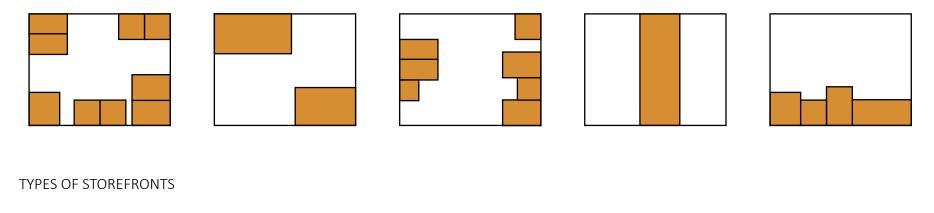
CARRYING CAPACITY	PHYS.	PROTECTION	BUILDING REGULATION	RESIDENTIAL	Rehab (m2)	Remodel (m2)	N.D. (m2)
48-1	12.5	Contextual	Buffer - Traditional	4	407.84		59.86
48-2	12	Contextual	Buffer - non-Traditional	9		749.07	
48-3	14	Typological	Buffer - Traditional	9	992.10		
48-4	12	Typological	Buffer - Traditional	6	351.14		291.56
48-5	9.5	Contextual	Buffer - non-Traditional	4		304.23	75.73
48-6	12	Contextual	Buffer - Traditional	6	725.34		
48-7	17	Rigorous	Buffer - Traditional	21	2043.71		278.85
48-8	15.5	Typological	Buffer - Traditional	3	375.54		
48-9	14	Typological	Buffer - Traditional	11	1236.50		
48-10	10	Typological	Buffer - Traditional	2	88.77		70.84
48-11	12	Contextual	Buffer - Traditional	9	984.15		55.42
48-12	13	Contextual	Buffer - Traditional	7	334.34		384.02
48-13	13	Contextual	Buffer - Traditional	4	443.76		34.68
48-14	10.5	Contextual	Buffer - Traditional	10	1098.88		
48-15	14	Typological	Buffer - Traditional	3	344.89		
48-16	14	Typological	Buffer - Traditional	15	1303.12		281.74
48-17	12.5	Typological	Buffer - Traditional	19	974.83		

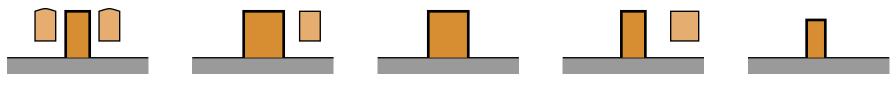
QUITO :: ACTIVATING HERITAGE ASSETS adaptive rehabilitation + housing in historic city centers

STOREFRONT ANALYSIS

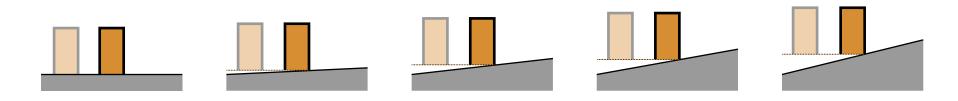
STOREFRONTS in ADAPTIVE REUSE PROPERTIES

BLOCK SCALE





TOPOGRAPHY



INFRASTRUCTURAL REQUIREMENTS





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USE	DEMAN	201111	CAPACITY HERITAG	ECONSERVATION ADRIVER	EHABILIATON
HOUSING					
PENSIONS / LOW-INCOME			\bigcirc		
HOTEL			\bigcirc		
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER			\bigcirc		



CHQ

SITE



USE ANALYASIS



USE	DEMAN	20111	CAPACITY HERITAG	ECONSERVATION ADAPTIVE PE	HABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL					
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					







USE ANALYASIS

USE	DEMAN	201111	CAPACITY HERITAG	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL	\bigcirc				
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					







USE ANALYASIS

USE	OFMAN	20MM	CAPACITY HERITAG	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL			\bigcirc		
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER	\bigcirc				



New Construction



USE ANALYASIS

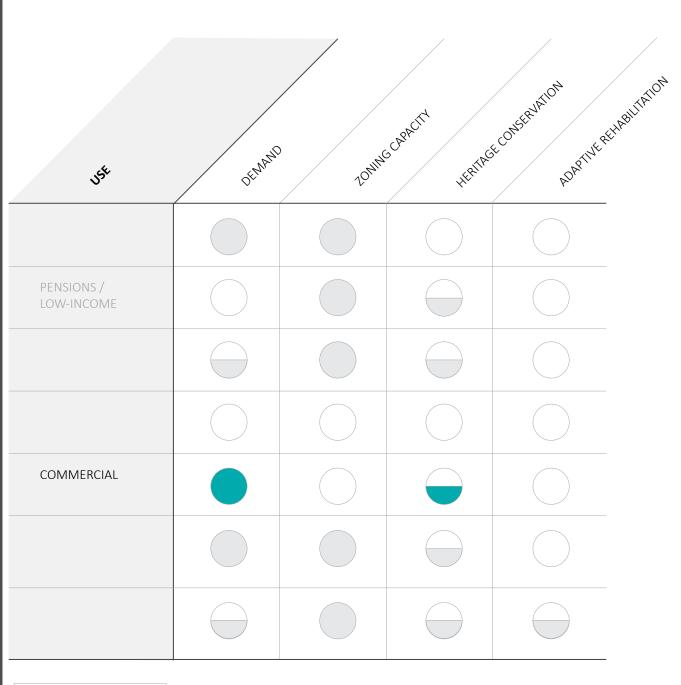
USE	DEMAN	201111	CAPACITY HERITA	ECONSERVATION BORTINE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL					
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER					



USE ANALYASIS

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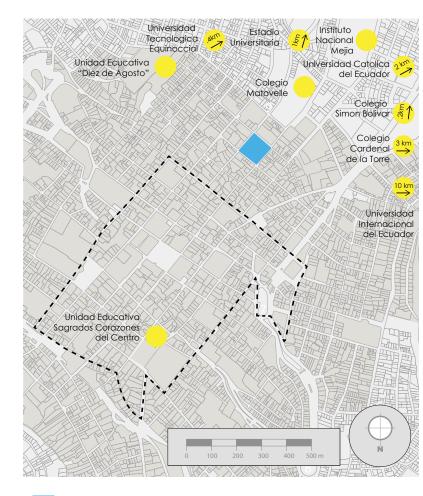


USE AND DEMAND BREAKDOWN ANALYSIS



USE ANALYASIS

USE	DEMAN	201111	CAPACITY HERITAG	ECONSERVATION ADAPTIVE P	EHABILIATION
HOUSING					
PENSIONS / LOW-INCOME					
HOTEL	\bigcirc				
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER	\bigcirc				





USE ANALYASIS

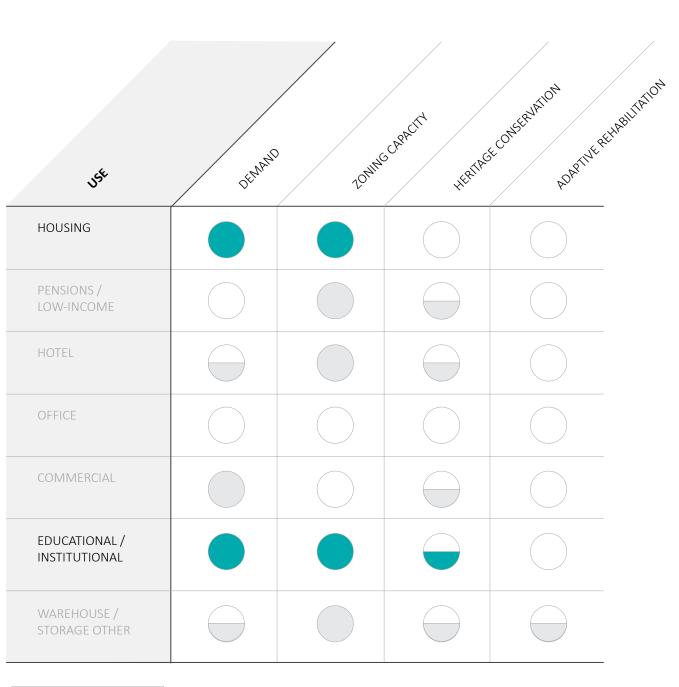


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HOUSING					
PENSIONS / LOW-INCOME					
HOTEL	\bigcirc				
OFFICE					
COMMERCIAL					
EDUCATIONAL / INSTITUTIONAL					
WAREHOUSE / STORAGE OTHER				\bigcirc	





USE ANALYASIS



USE AND DEMAND

BREAKDOWN ANALYSIS









USE ANALYASIS

QUITO ACTIVATING HERITAGE ASSETS

ADAPTIVE REHABILITATION + HOUSING IN HISTORIC CITY CENTERS

05 :: 02 :: 14