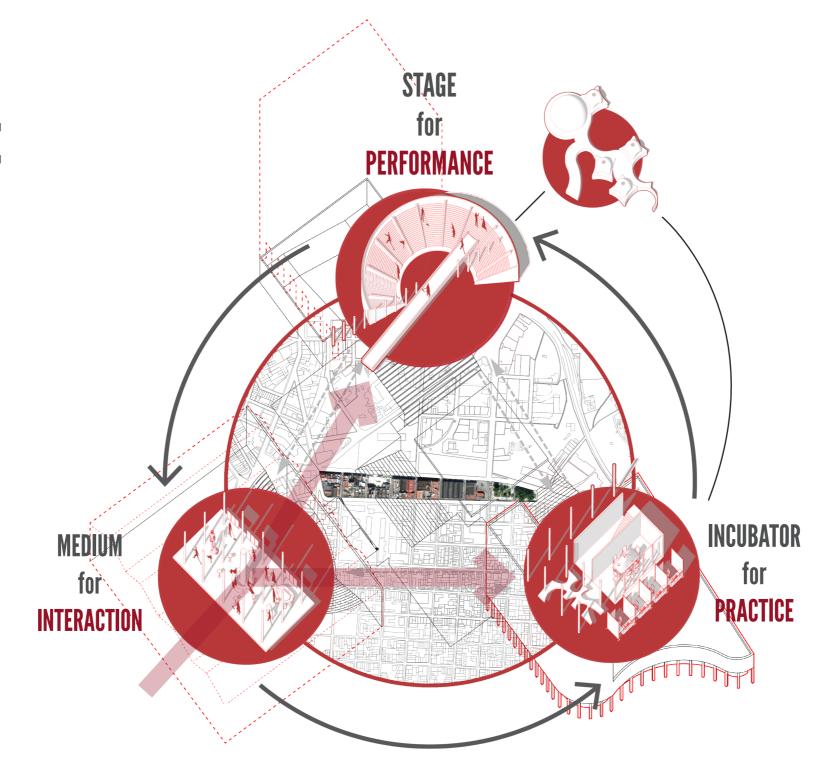


MSc3-4 COMPLEX PROJECTS
HAVANA PROFUNDA
Kan Hok Yin
Anthony

Project:

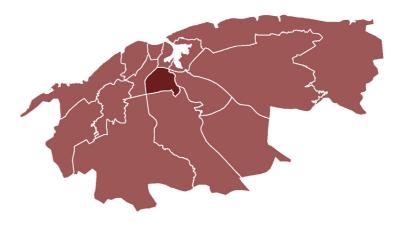


Cultural District in Havana

Bottom-Up Urban Renewal Project initiated by Creative Class, Constructed through Intervention

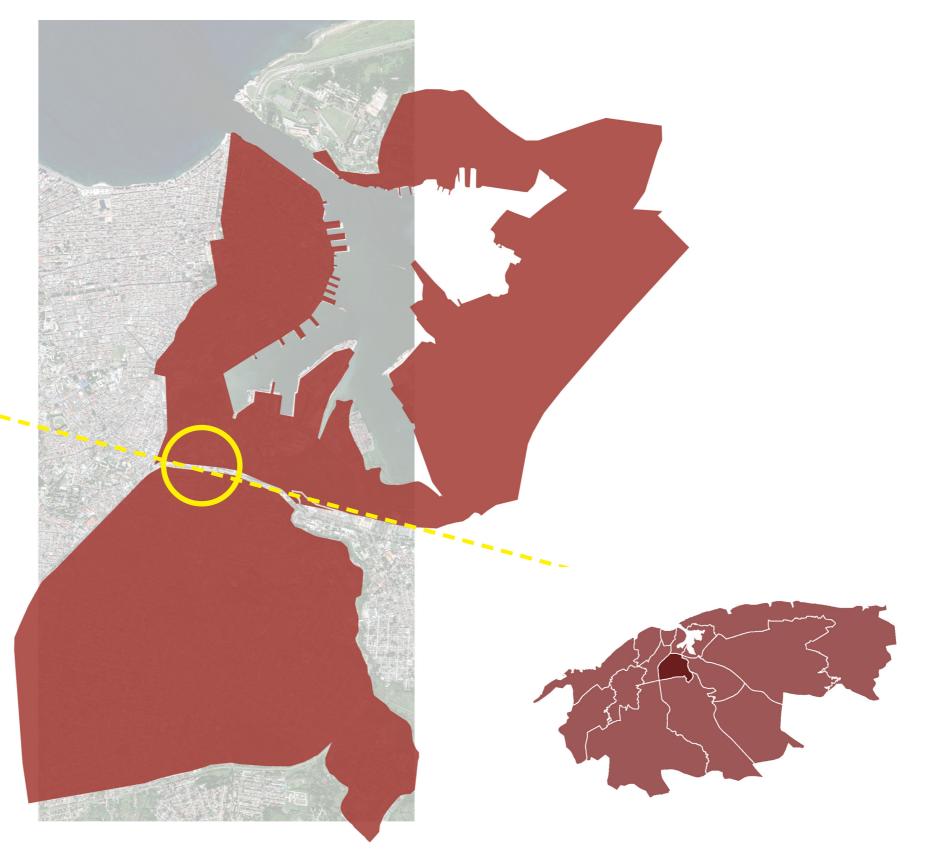
Site:





Between the Prioritized and Neglected Neighbourhood the fast growing old town redevelopment area and ignored working-class neighbourhood that left to decaying

Site:



Between the Prioritized and Neglected Neighbourhood the fast growing old town redevelopment area and ignored working-class neighbourhood that left to decaying

Site:







Between the Prioritized and Neglected Neighbourhood the fast growing old town redevelopment area and ignored working-class neighbourhood that left to decaying



Cultural activity as means of re-molding impression of the rigid post-industiral leftover border.

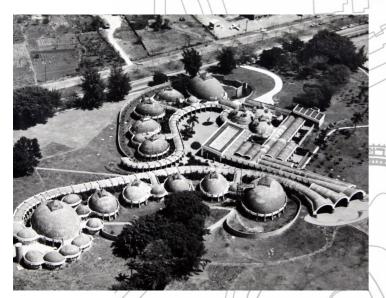


Capital through education and renovations

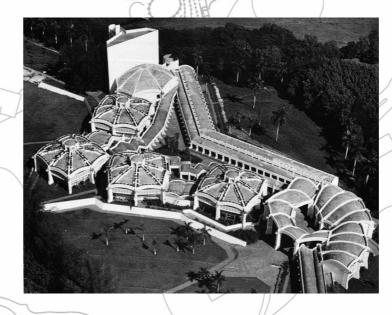
FIDEL GASTROL 1960

The culture of socialism is a humanist culture in that stresses the solutarity of men and peoples and fosters whatever is best and most progressive in the human being. It offers the scope and the means for the universal development of the individual, and for the formation of his creative personality, so that he is capable of acting freely and effectively it various social fields through the deployment of his initiative, enriched by a deeper understanding of the world and of himself.

Instituto Superior de Arte: Site Visit Research















School of Dramatic Arts - Roberto Gottardi



School of Modern Dance - Ricardo Porro



School of Ballet - Vittorio Garatti

Art Events:



Artist Training -> Cultural Events

Renovation Projects: Revival of Historical Quarter



by PUBLIC SECTOR

Office of the Historian of Havana City

by PRIVATE SECTOR

Private Corporations/ Joint Venture Investment

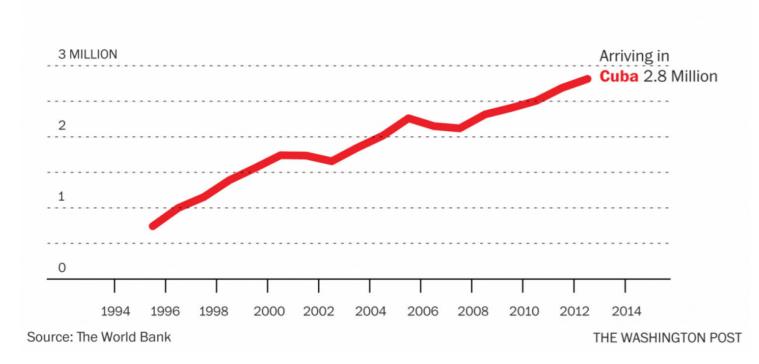


Tourism: Attractivness of Cuban Culture



Tourists arriving in Cuba

Enticed by the potential flood of cash into the island's reeling economy, Fidel Castro opened Cuba to tourists in 1995, and it quickly became a top Caribbean destination. If U.S. restrictions are eased, the flow of Americans is expected to skyrocket.

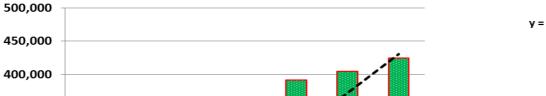


Artist Training -> Cultural Events -> Historical City as Stage -> Foriegn Interest

Raul Castro's 5 Year Economic Reform:

A New Economic System for New Tourist Economy, Diversification!





350,000

150,000

100,000

50,000

Figure 1. Cuba: Self-Employed Workers: 2007-2013

300,000
250,000
200,000
Self-Employed Workers
Workers)

2011

425,000 Self-Employed Workers
110,000 Reduction in Public Jobs
7.5% Cuba's total Work-Force

Artist Training -> Cultural Events -> Historical City as Stage -> Foriegn Interest-> Business

The Rising Figures However are exposing the weaknesses in Cuba's Social Policy and Urban Planning

Expanding Creative Sector Grow
Inability to Digest Str

Growing Private Sector

Struggle of Survival

On-Going Urban Redevelopment

Strong Border of Gentrification

Artist Environment:

Overloaded Education & Saturated Platform



School of Modern Dance - Ricardo Porro

OVERLOADED WITH 4000 STUDENTS (DESIGNED FOR 900)

NATIONAL PERFORMANCE GROUP



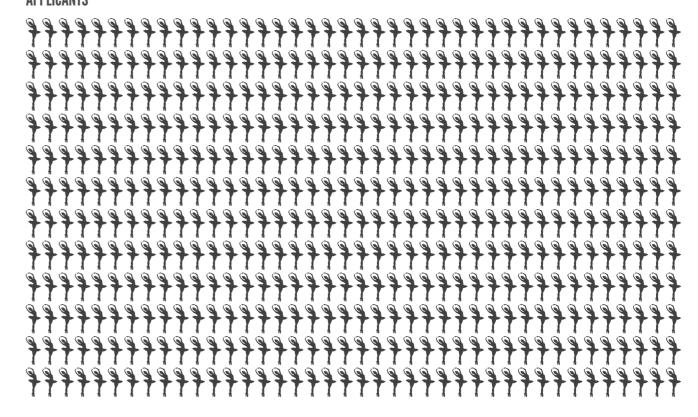
CRADIIATEC



STUDENTS



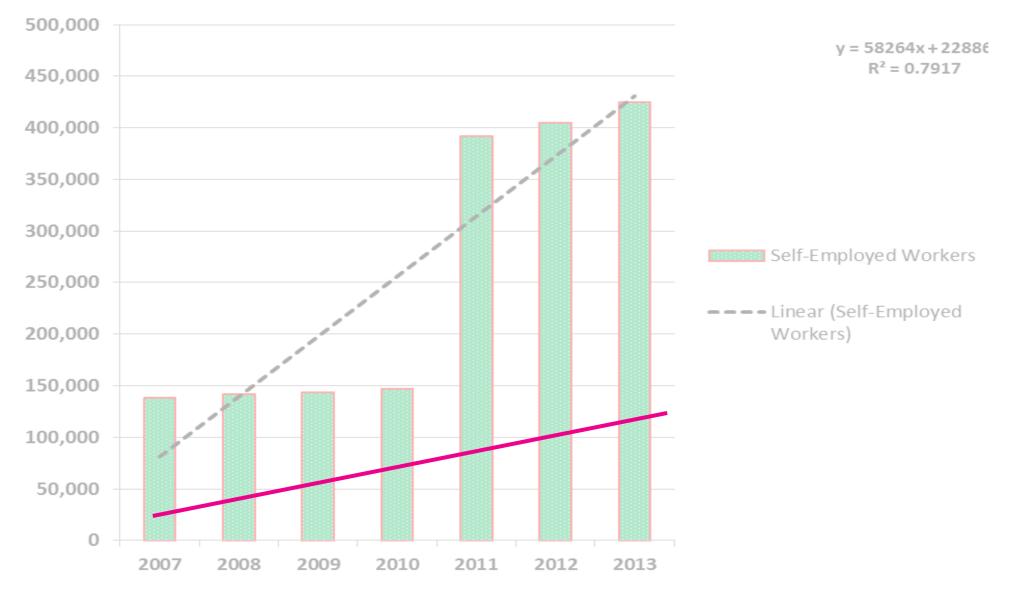
ADDI ICANTO



Private Business:

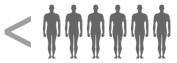
Failure of Sustainability





25% entrepreneurs failed and turned in their licenses (annually)

Company Size: (Unconditional)

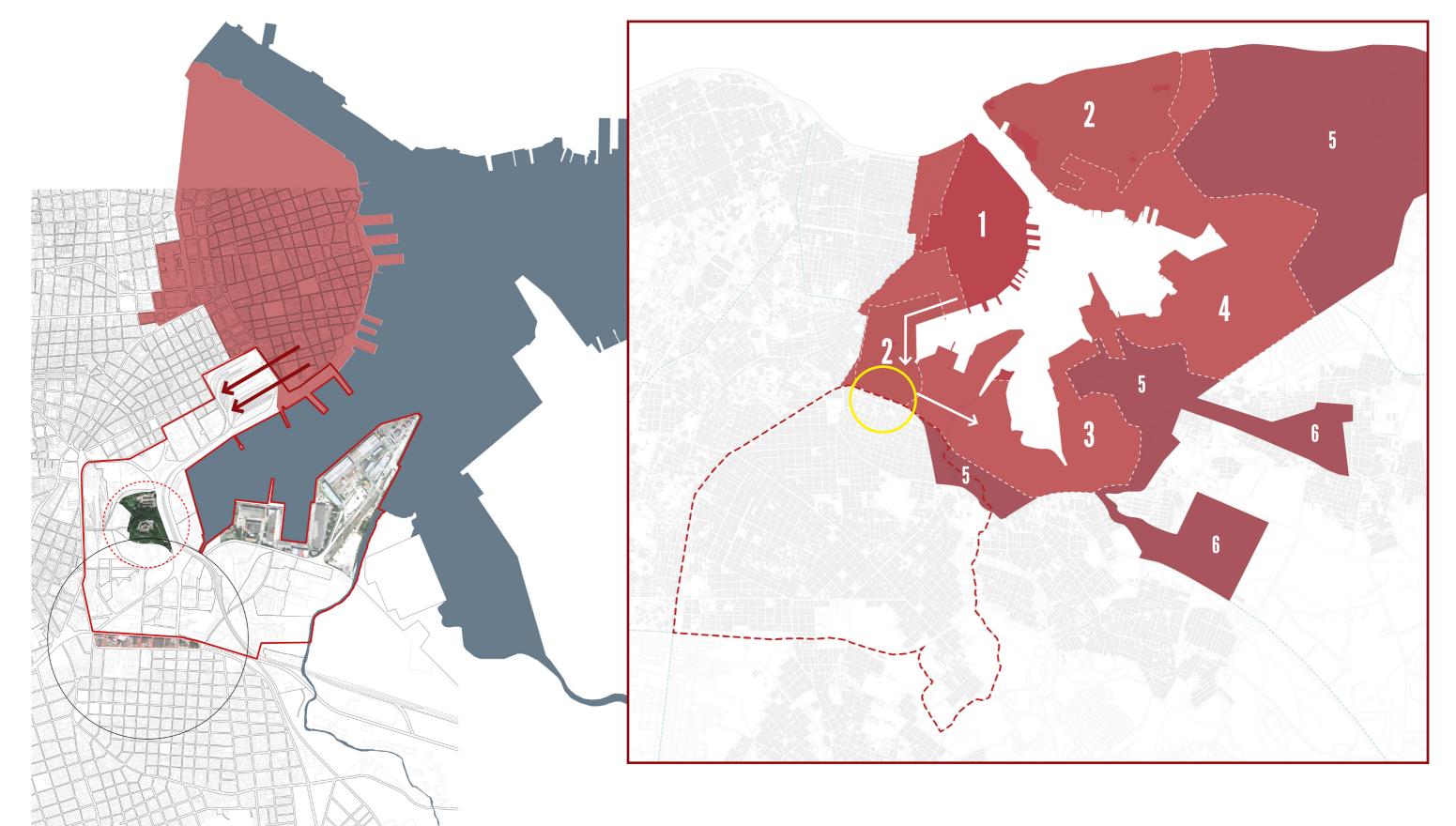


exponential increase in income tax starting from 40% to discourage large company size & concentration of \$\$.

Working Space Rental:

183 CUC /month

if shared by 6 employees, would account for 50% of income



Plans of Redevelopment Prioritised Urban planning



Problems of Neglected Neighbourhood Case Study in Diez de Octubre- Densiest Residential Area





39% families living in merely adequate or poor condition = **1,170,000** homes Housing deficit of 1,500,000 homes 26,634 homes constructed in 2014 **45%** of which unaided by government

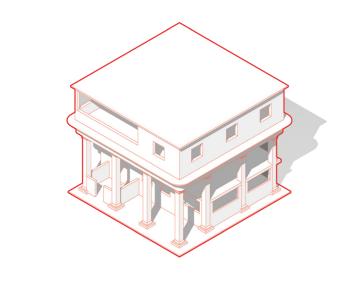


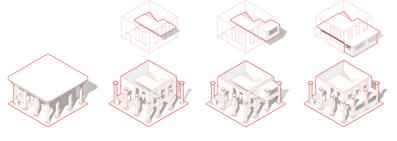




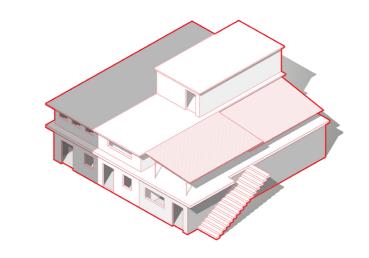


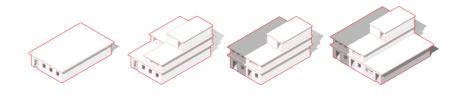
Problems of Neglected Neighbourhood Typologies of DIY extension



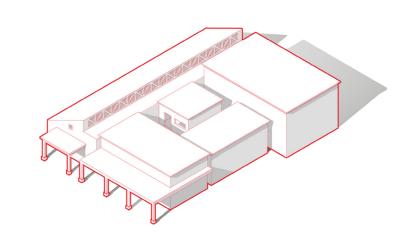


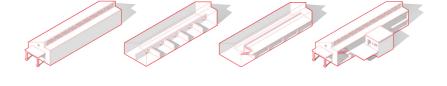












Category IV: Metamorphosis









Unsustainable Artist Education

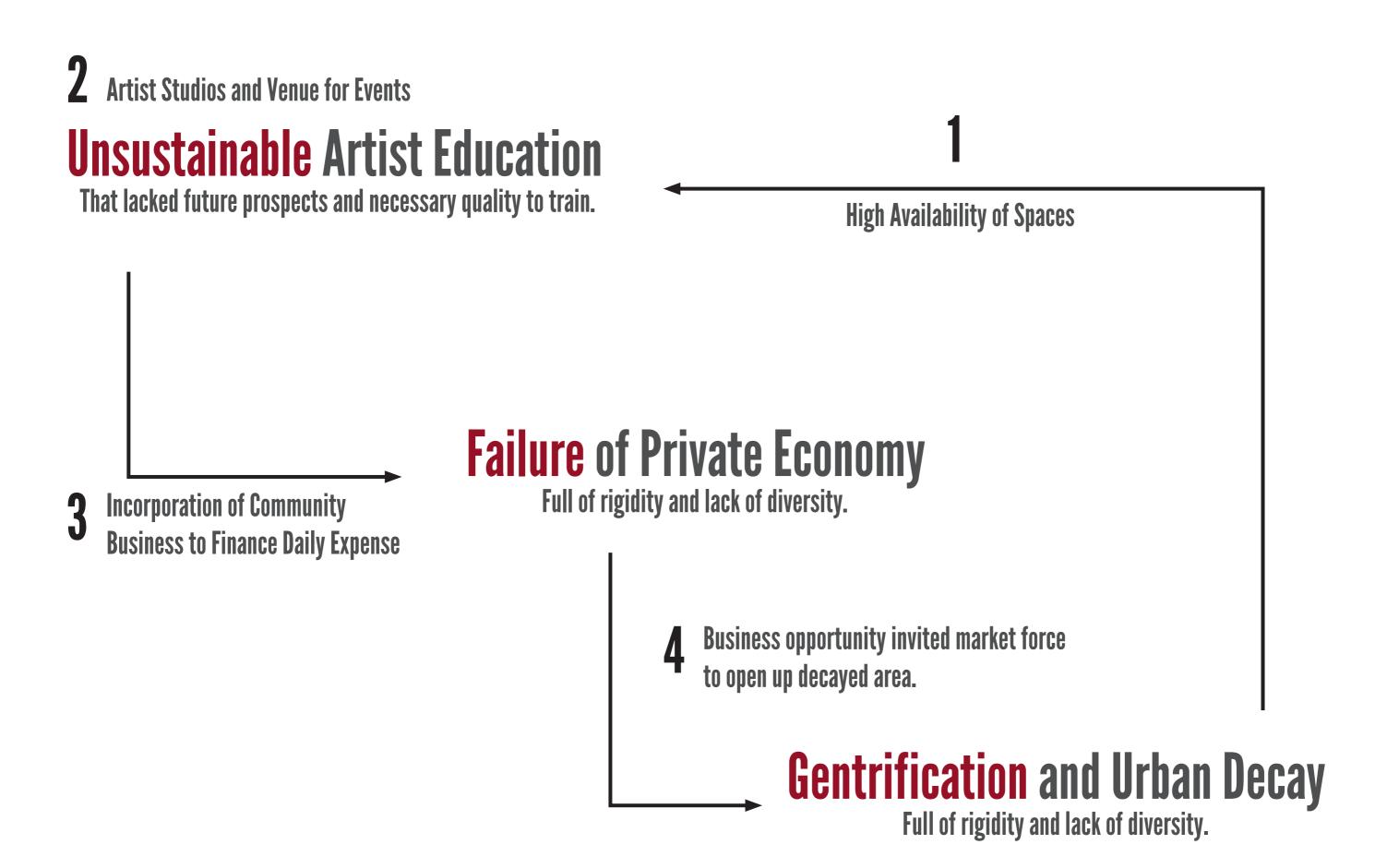
That lacked future prospects and necessary quality to train.

Failure of Private Economy

Full of rigidity and lack of diversity.

Gentrification and Urban Decay

Full of rigidity and lack of diversity.



Problems as Interwoven Possibilities!!

Thesis Statement:

Creative Class as 'New' Developers

from the grass roots, honing in on their collective skills and expertise to self-procure, build and manage their own neighborhoods.

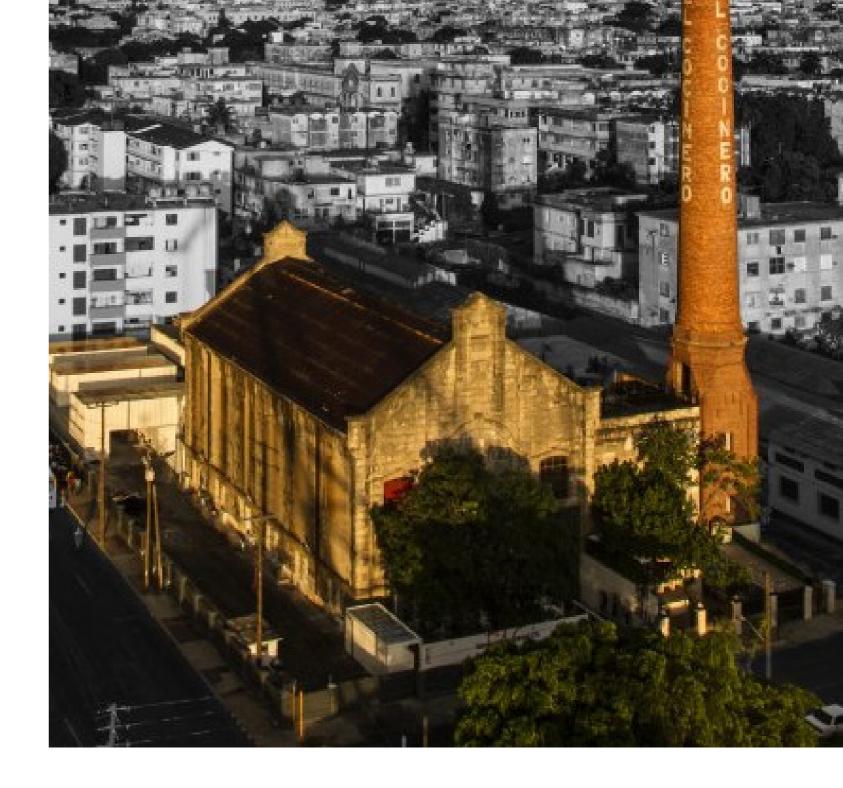
Designing the "Process" from simple occupation to expansion.

Case Studies:

Case Study I: Fábrica de Arte Cubano (F.A.C.), Havana







Fábrica de Arte Cubano

The Project is located in Cocinero, originally the headquarters for Havana's electricity company, then converted to an olive oil factory. A third life was given to this space as a new exhibition/ performance stage in Havana, breeding retail branches around itself in the following 2 years.

Program Distribution:



Artist Studio:

Photography Workshop x1
Painter's Studio x3
Archive x1

450 sqm

Exhibition:

25%

Informal Display
Permanant Exhibition
Temporary Display Gallery
Art Work Selling Space

500 sqm

Social:

El Cocinero (Roof-top Restaurant)
Bar x3
Informal Performing Stage

Performance Hall

900 sqm

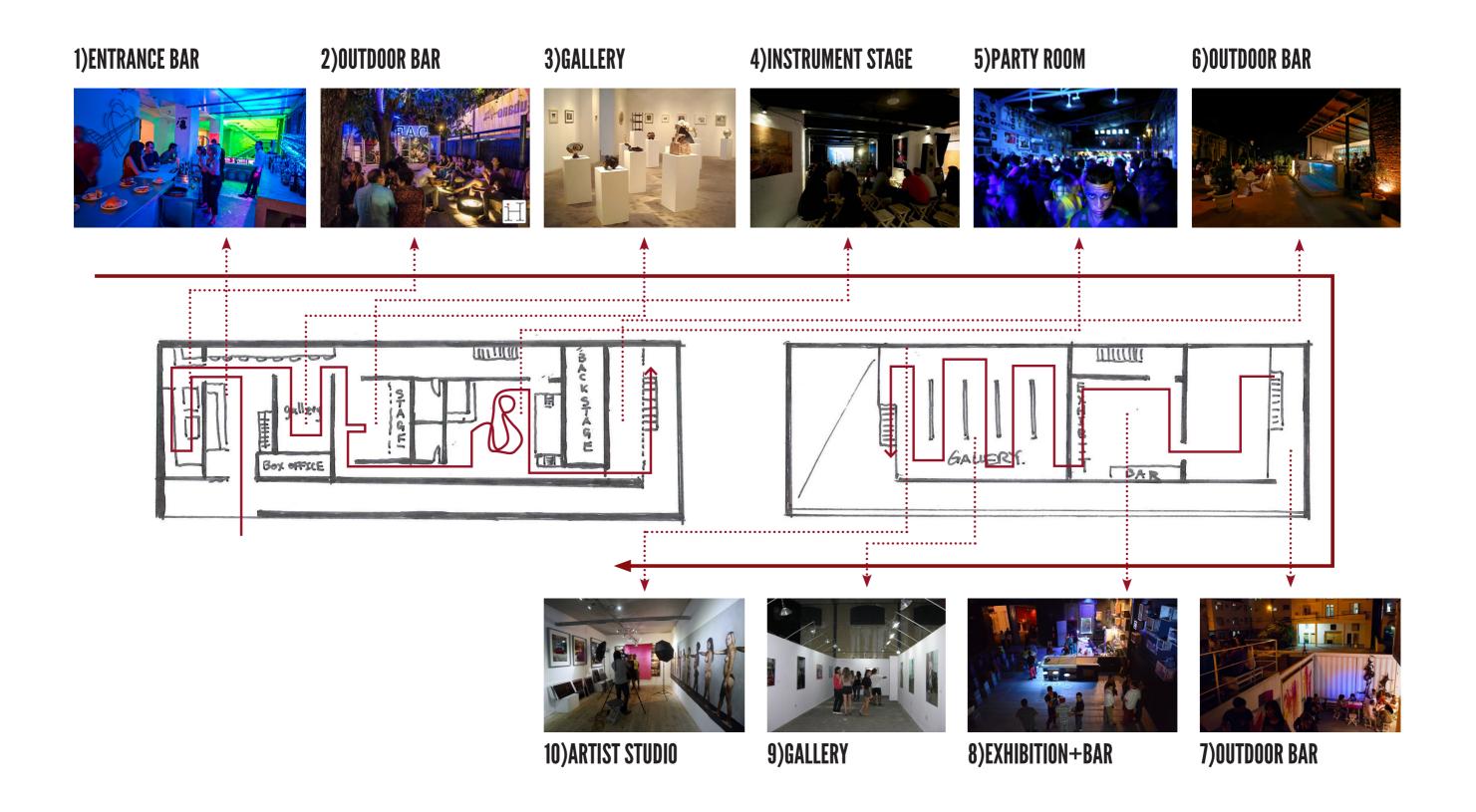
125 sqm

Office and Services:





Spatial Journey:



System of Elaboration:

STAGE 1. (INTROVERT)

- 1) Artists looking for Working Space with Low Rent
- 2) Collective Investment of Artist in Refurbishing Factory

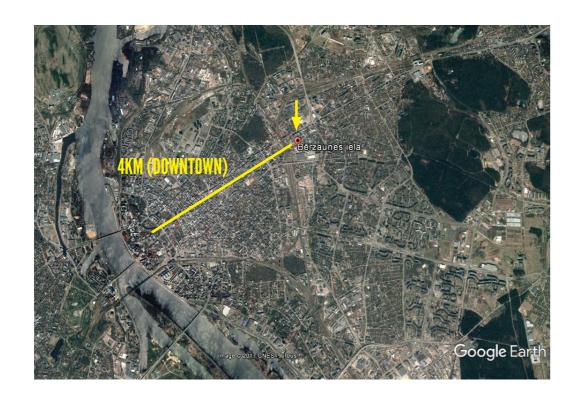
STAGE 2. (EXPANSION)

- 1) Factory needs funding to hold public events and support expense.
- 2) Set-up of Bar/ Restaurant to raise money (sustainable)

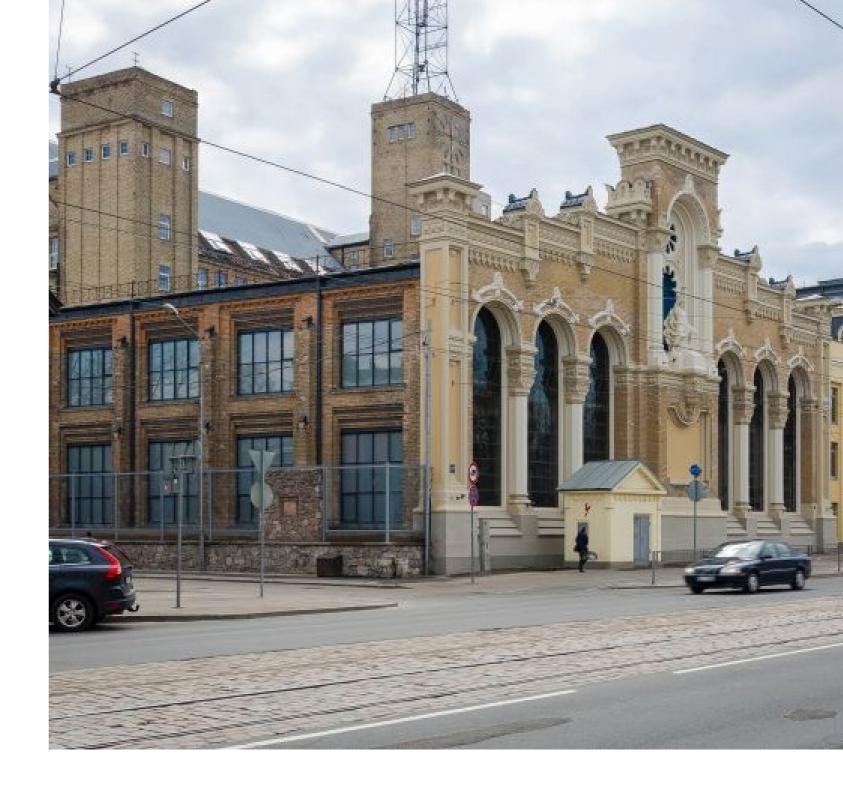
STAGE 3. (CONTEXT)

1) Factory becomes a popular site in district, unconciously triggering developments around.

Case Study II: Valsts Elektrotehniskā Fabrika - another socialist example in Riga





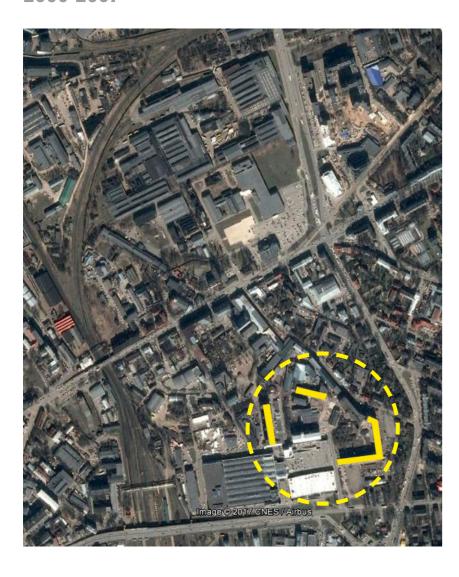


Valsts Elektrotehniska Fabrika

VEF was the biggest manufacturer of electrical and electronic products in the former USSR. After the re-establishment of Latvia's independence in 1991 these developments left a massive abandoned territory in Riga's urban space. Today Totaldobže, created in 2010, is a private multifunctional cultural centre with a main focus to create an ongoing platform for interdisciplinary art and educational projects.

Expansion: From Building Scale Revitalization to Urban Scale Reoccupation

2005-2007



2008-2011



2011-Present



Growth Boosted by Global Economic Downturn 2008, Unemployment Rate Skyrocketed and Individuals started looking for cheap locations to conduct Private Business.

Program Distribution:

2005-2007



Artist Studio:
Refurbished Working Spaces

1000 sqm

2008-2011



Artist Studio:
Refurbished W

Refurbished Working Spaces

hone.

Community Design Workshops:

Galerija Ziema Open Silkscreen

750 sqm

1000 sqm

Temporary Event Spaces:

2500 sqm

Retail:

Cafe x5

Restaurant x2 200 sqm

2011-Present



Artist Studio:

Refurbished Working Spaces Studios

2000 cam

Community Design Workshops:

Galerija Ziema

Open Silkscreen

750 sqm

Institutions:

Totaldobže Art Centre

Veizāns Dance School

3000 sur

Retail:

Cafe x15

Restaurant x8 Elkor Plaza

Days Hotel Riga VEF

4000 sqm

Wholesale:

Domina Shopping

Evelatus Euronics

6000 sqm

Recreation:

VEF Indoor Extreme Sports Park

Park

Library 5500 sqm

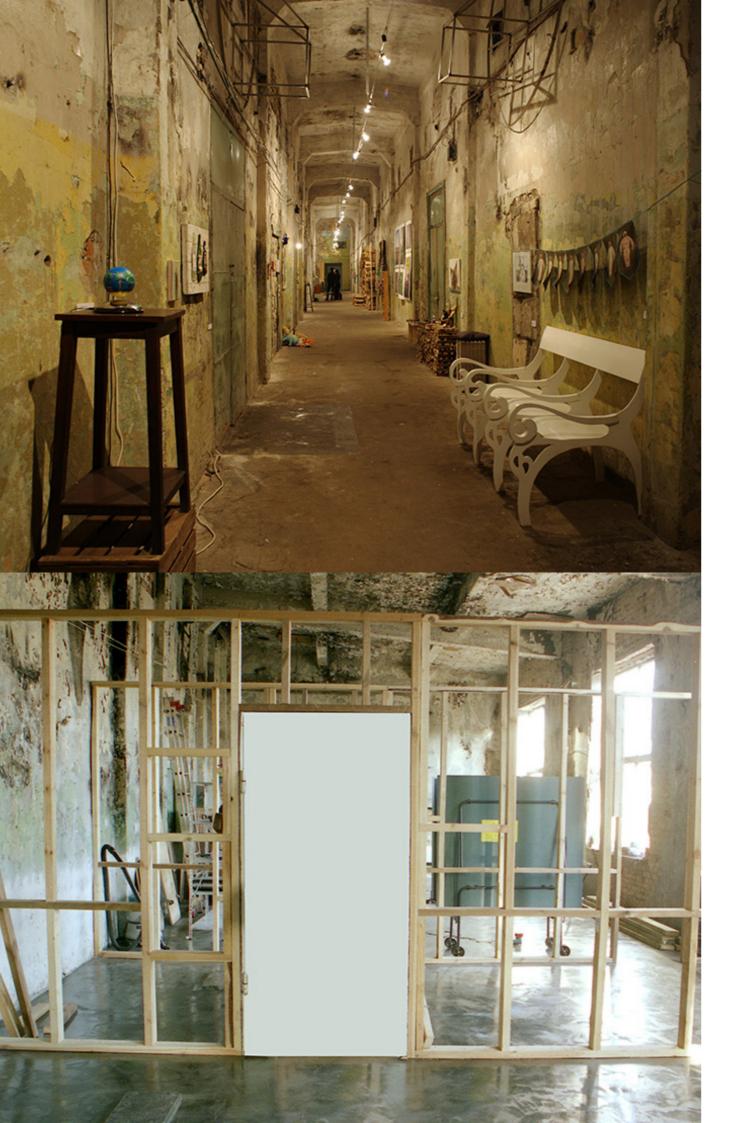
Performance:

Melnā Piektdiena

Godvil Concert Hall 1500 sqm

Property:

Ober Haus Real Estate 2200 sqm





Totaldobže Art Centre





Godvil Concert Hall

System of Elaboration: Unconscious Bottom Up Urban Renewal?

INTROVERT

STAGE 1.
OCCUPATION

Creative Class discovering potential left over spaces for work.

STAGE 2.
ATTENTION

Events were held to expose the work they have been doing to public, as well as attracting foriegn visits. **EXTROVERT**

STAGE 3.

ORGANIZATION

As the Creative Community expands they need a manageral system to manage, as well as institues to reproduce talents and exchange skills. STAGE 4.
BUSINESS

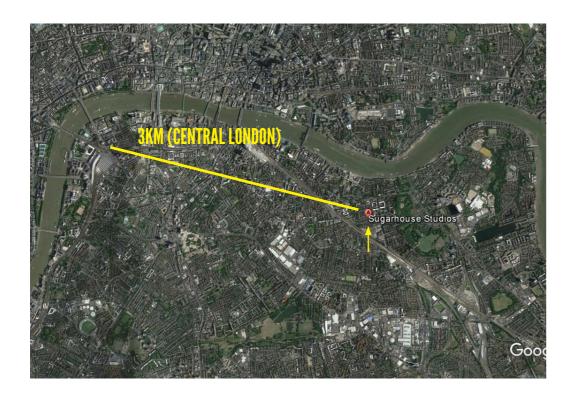
To Sustain such community retail business were managed around the creative sites.

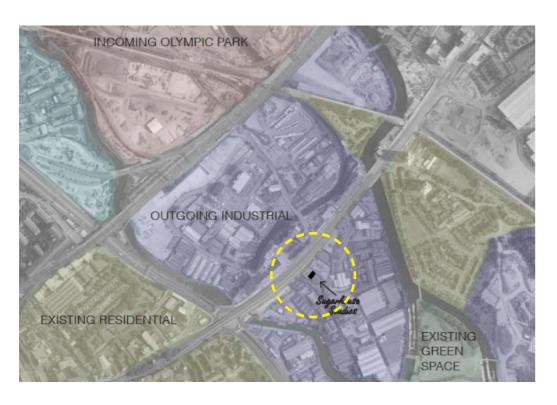
STAGE 5.

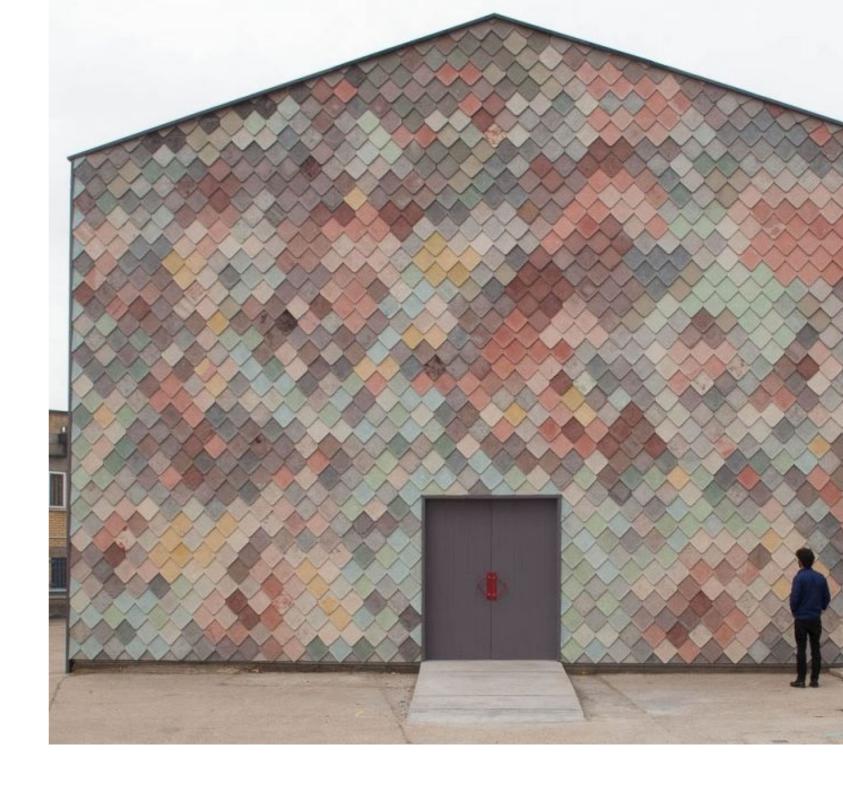
Conglomeration

As business grows, it start detached itself from management of creative-class and expands with own conciousness by discovering/renewing surrounding sites.

Case Study III: Sugarhouse Studio, London

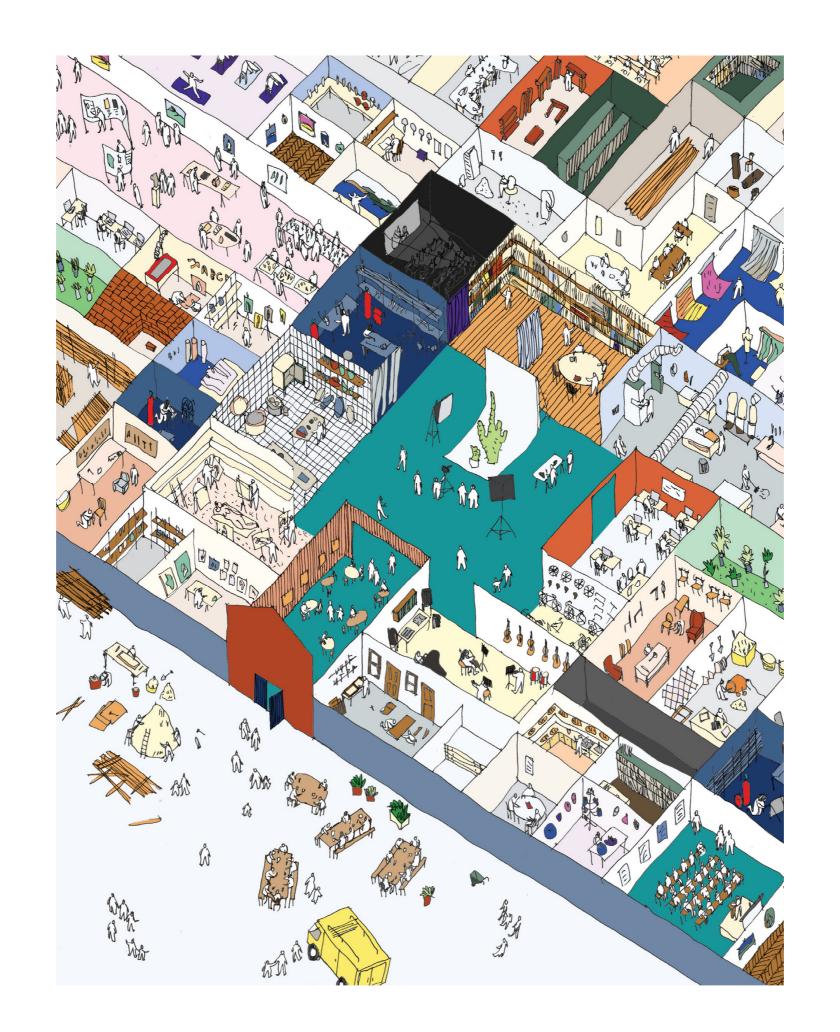


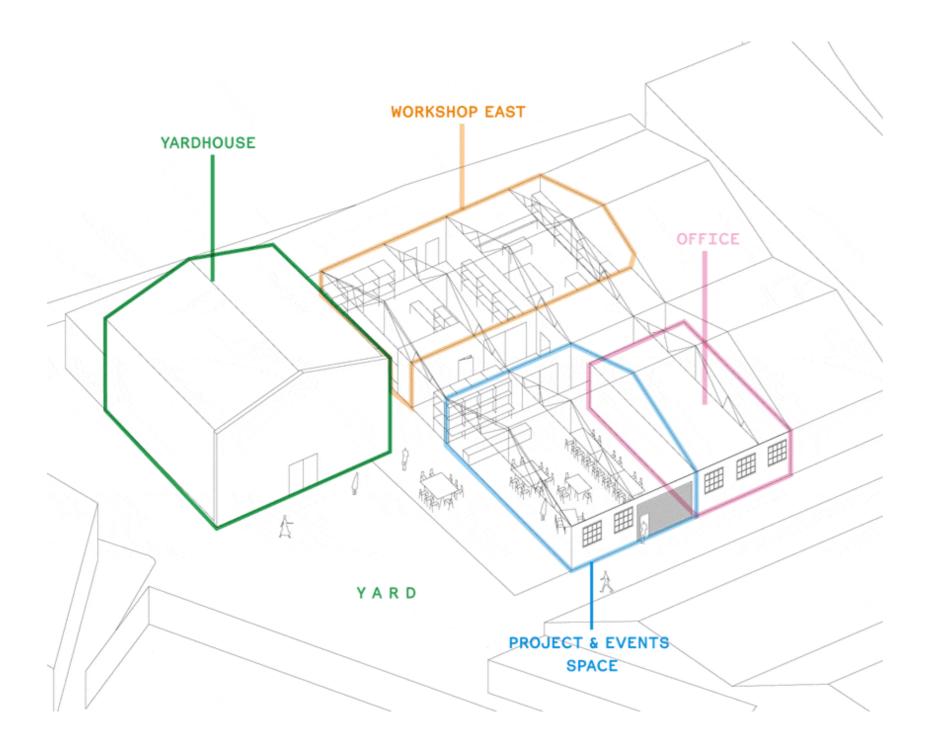




Sugarhouse Studios

Sugarhouse Studios is a studio and events space on Stratford High Street, conceived and built by Assemble. The project seeks to find a way for private practice (space for research, design and construction) to be opened up to form the backdrop for a public building.





22%

Yard House:

Individual Studio x8

250 sqm

Workshops for Rent:

Music Studio

Ceramic Studio

Metal Workshop

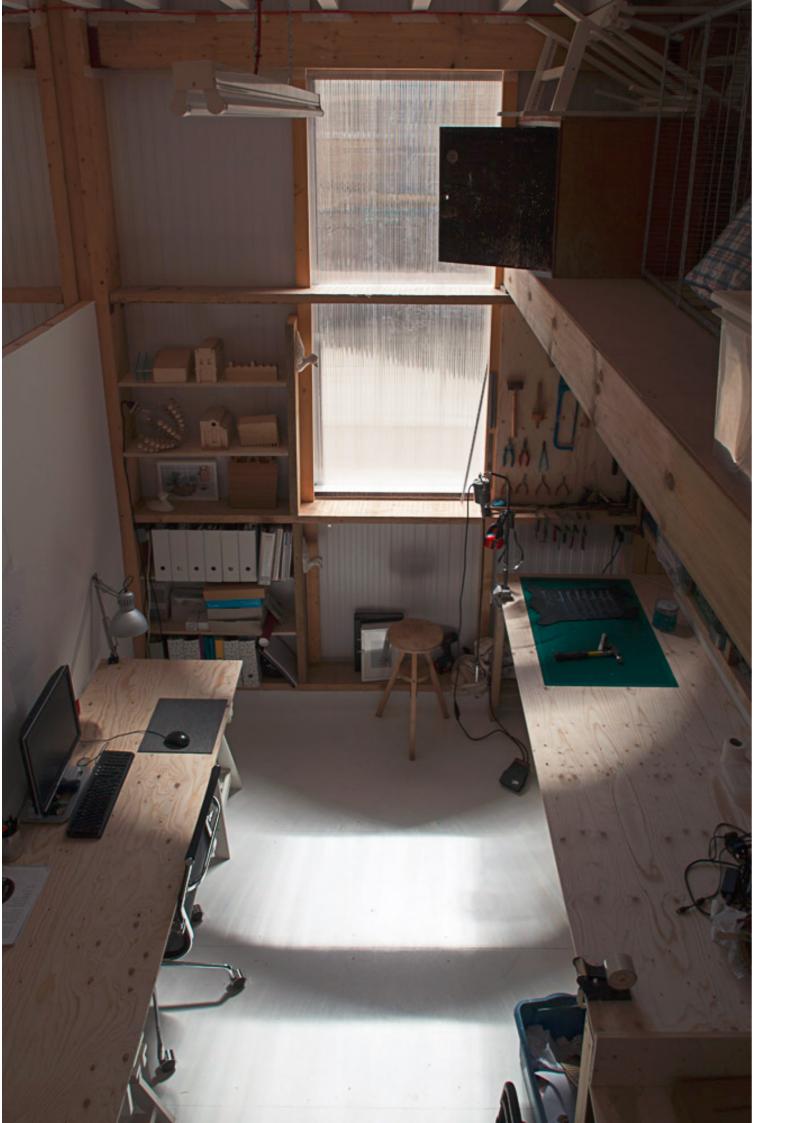
Wood Work Workshop 300 sqm

Social:

Cafe-Cinema 300 sqm

Office and Services: 125 sqm

45%

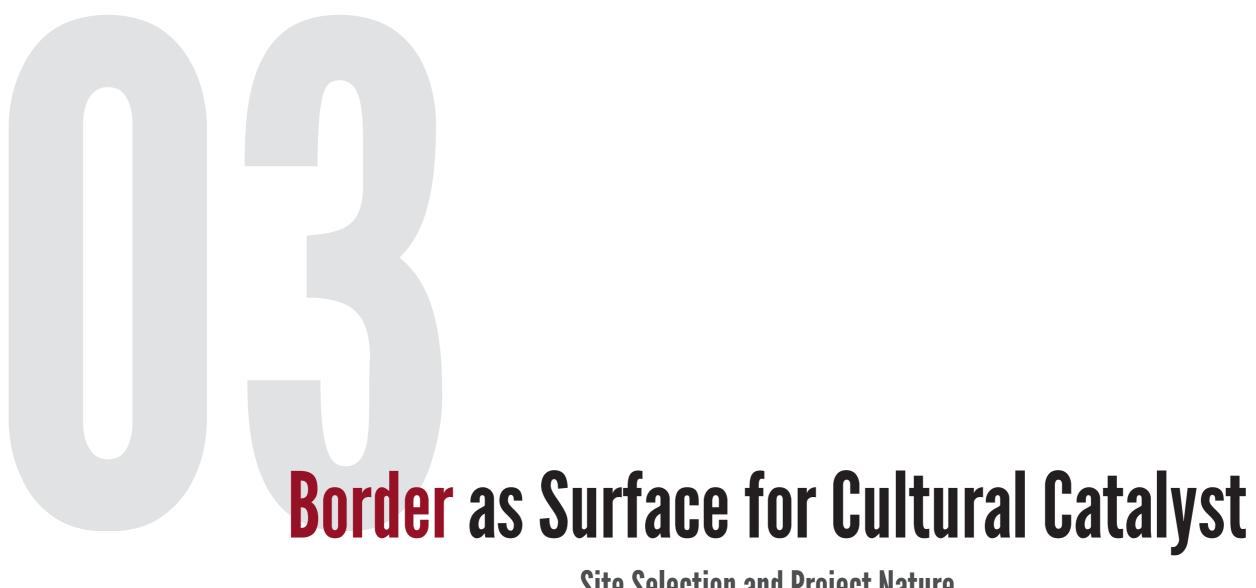




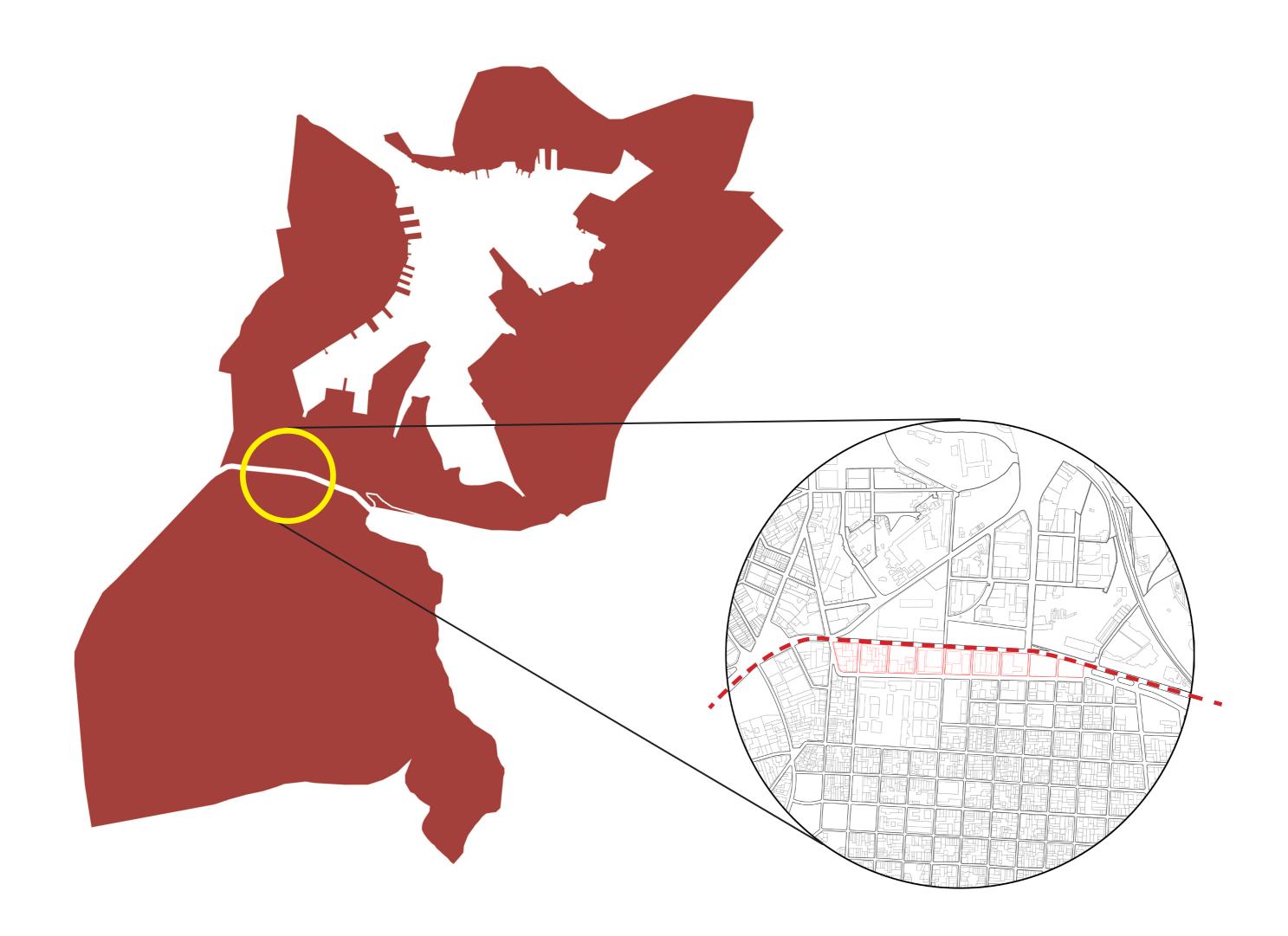




Studio Spaces for private work and Tools to share.

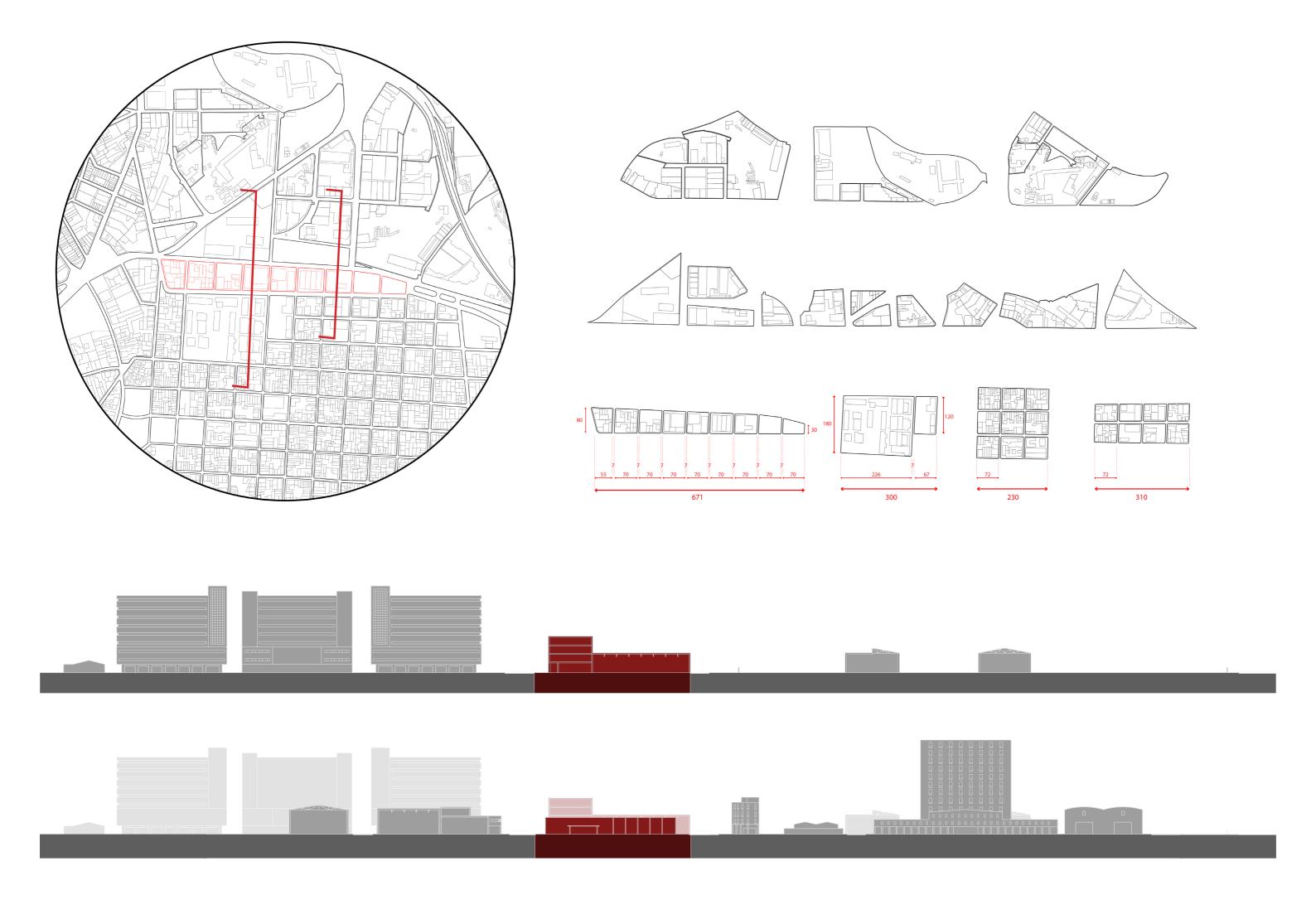


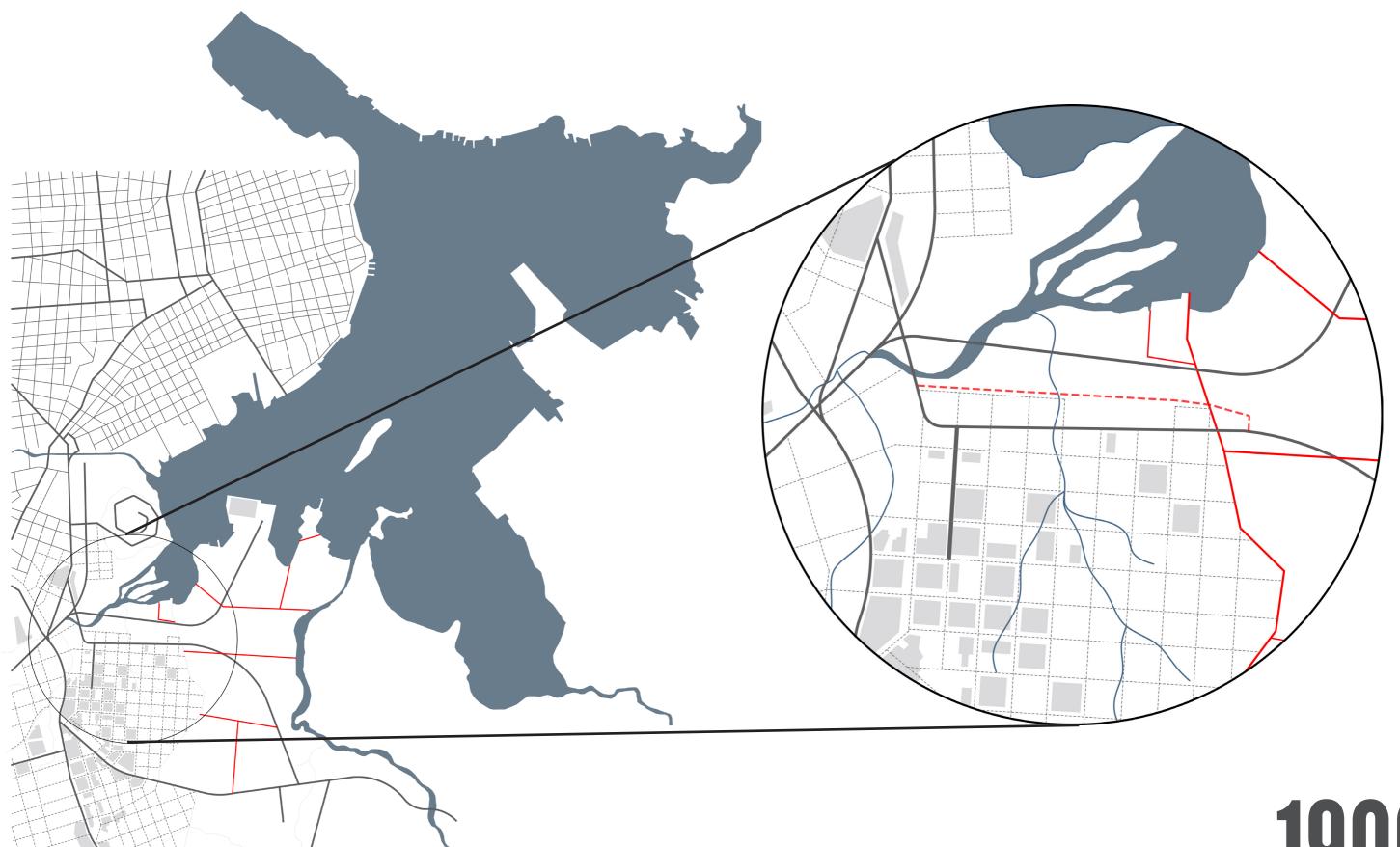
Site Selection and Project Nature



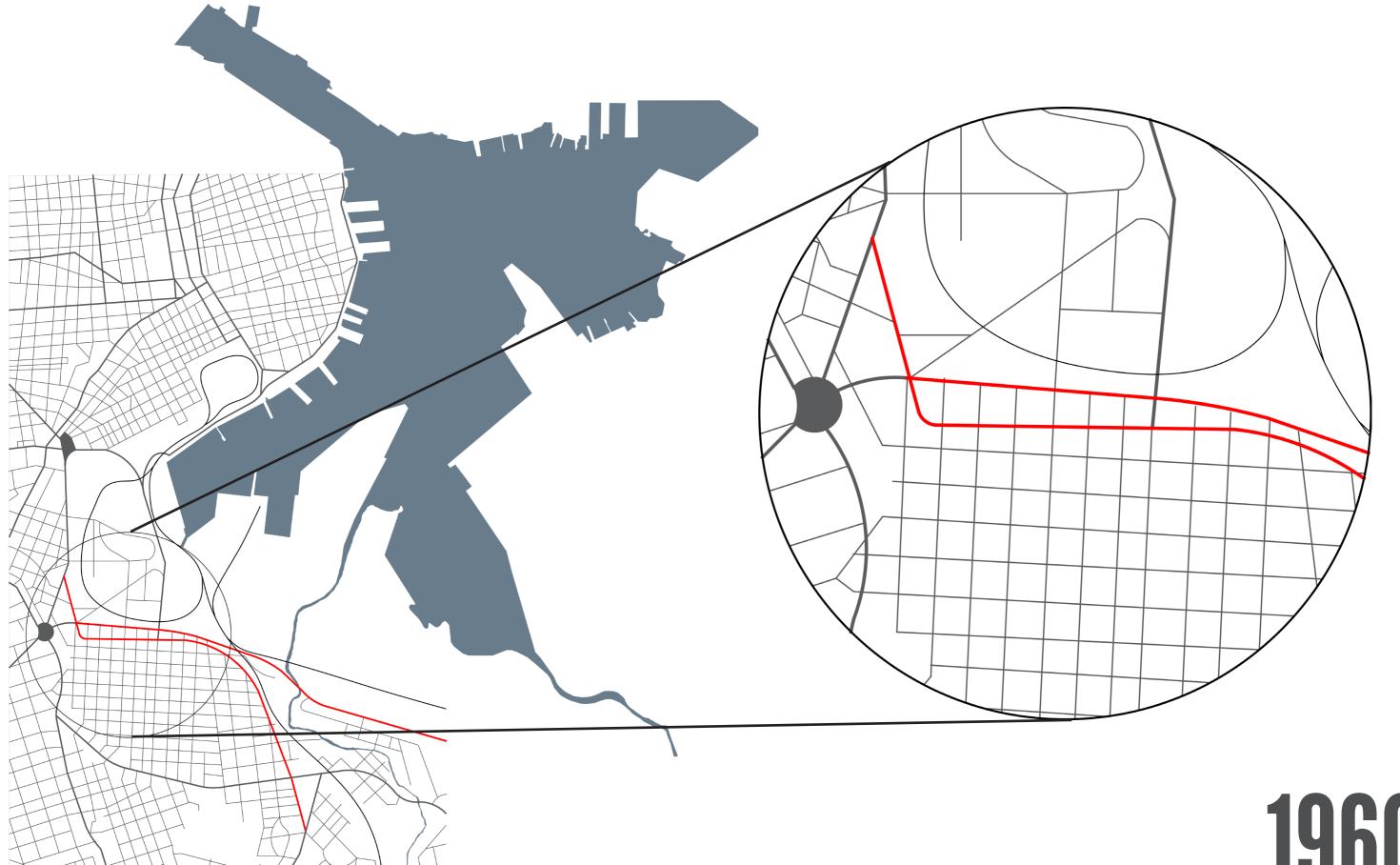






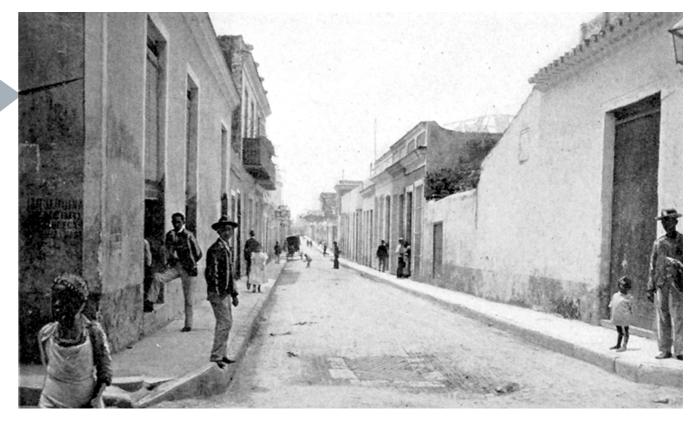


Creator: Pichardo y Tapia, Estéban, 1799-1879 Publisher: Office of Chief Engineer, City of Havana Department of Streets 1900 The Edge of Water



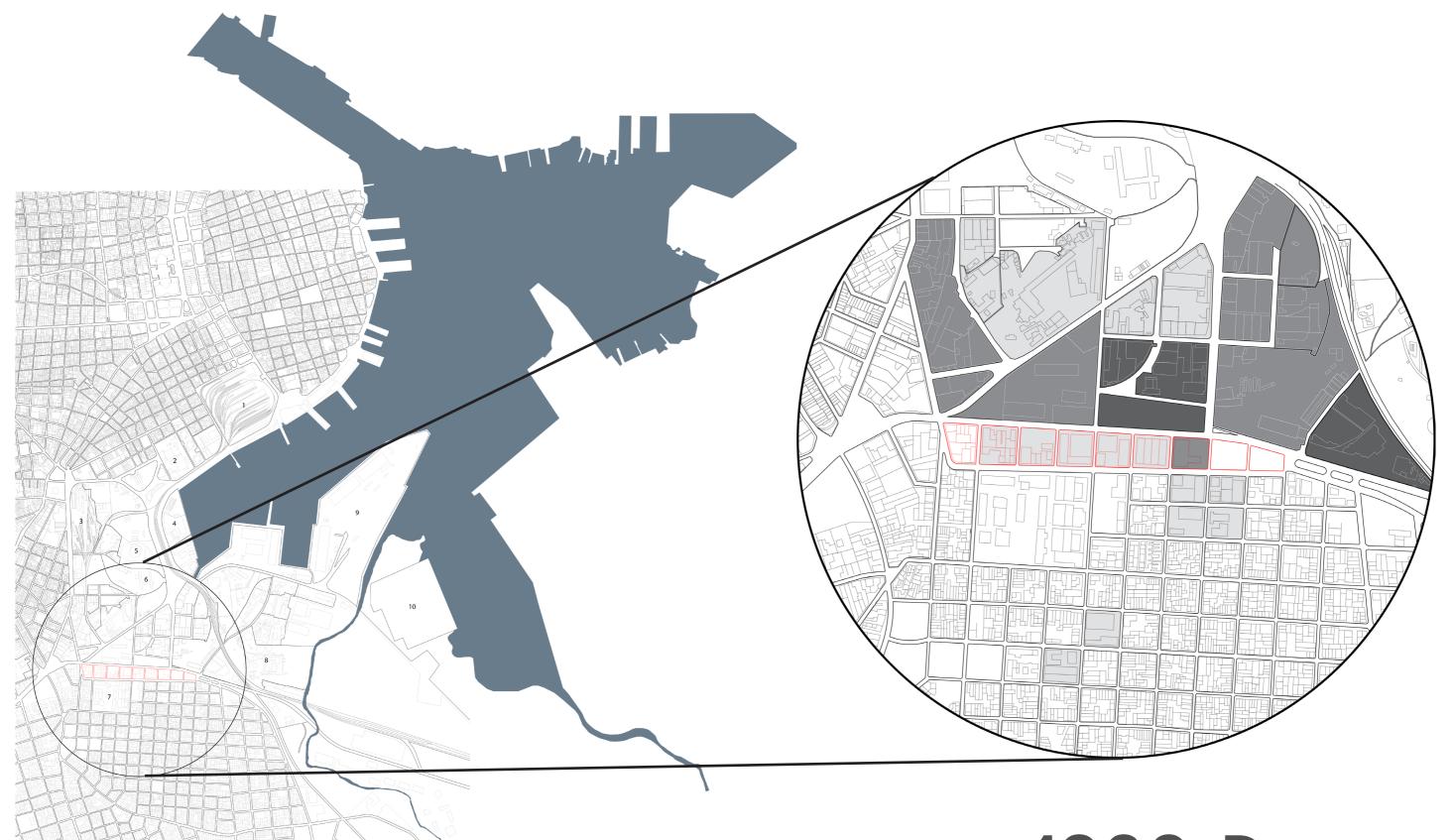
Creator: United States. Hydrographic Office Publisher: Hydrographic Office under the authority of the Secretary of the Navy 1960 Formation of Industrial Strip







Creator: United States. Hydrographic Office Publisher: Hydrographic Office under the authority of the Secretary of the Navy



1. Estacion Central 2. Termoelectrica Tallapiedra Estacion Cristina
 Muelle Osvalado Sanchez 5. Castillo de Atares

7. Hospital Miguel Enriquez
8. Planta De Gas De Melones 9. Haiphong Terminal

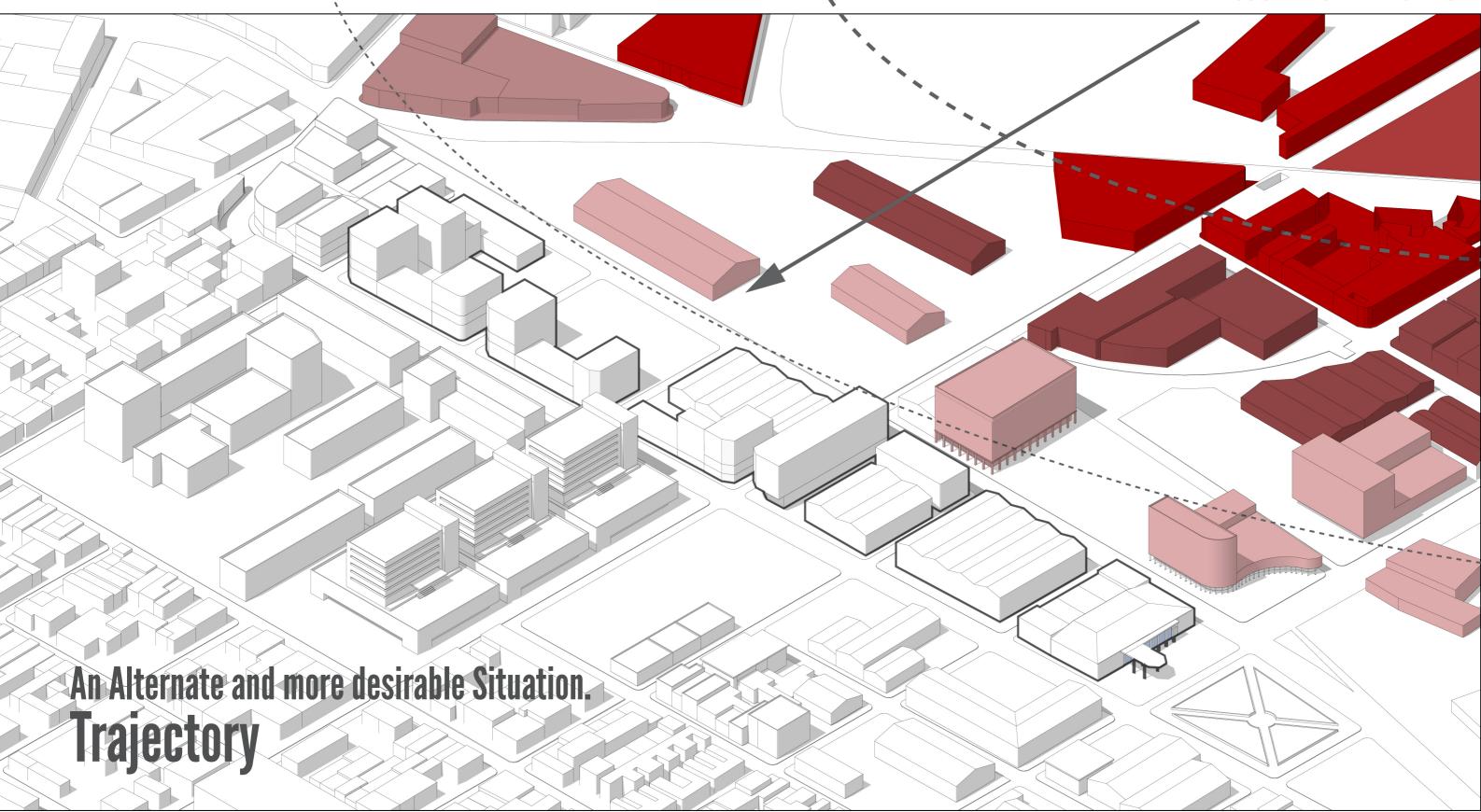
Creator: Google Map

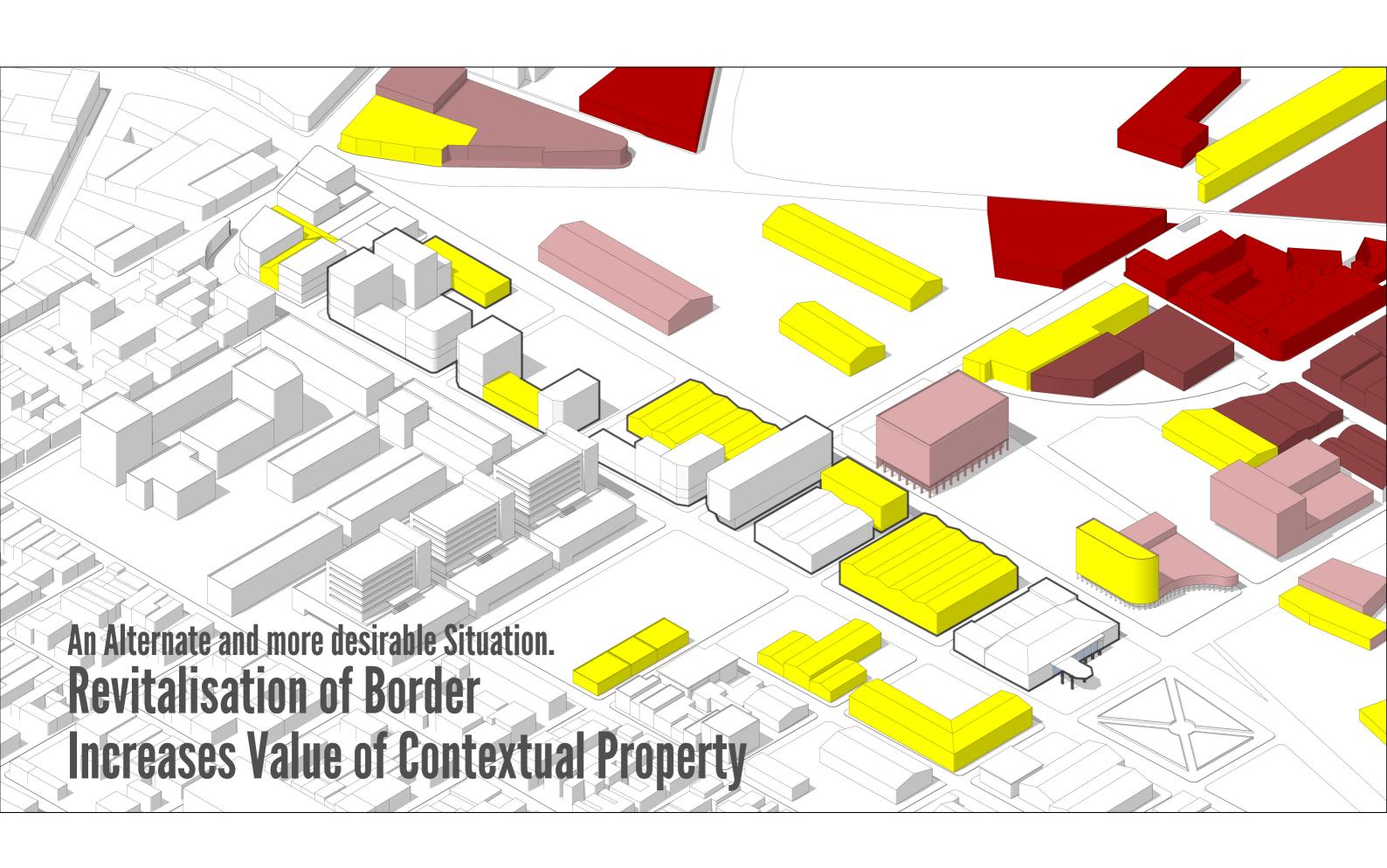
6. Unidad Provincal de Patrullas

1980-Present Edge of Post-Industrial Site

Probable Future Trajectory in 50 years Potential of Bay not fully developed! Route 1: all the way to Vieja... **RAILWAY** MUSEUM FIRST PLACE MIAMI TOURIST ARRIVE!! NEW CRUISE BLUESTRIP RETAILS **TERMINAL ATARES** MUSEUM QUARTER LOCAL BUSINESS CLUSTERS INTER-RIM HOUSINGS OUTER-AIM HOUSINGS Neglected Route 2. A possible new Zone of Reception Countryside / Cityscape Collage Experience?

RADIUS OF VALUE DEPRECIATION





Methodology of Interventing

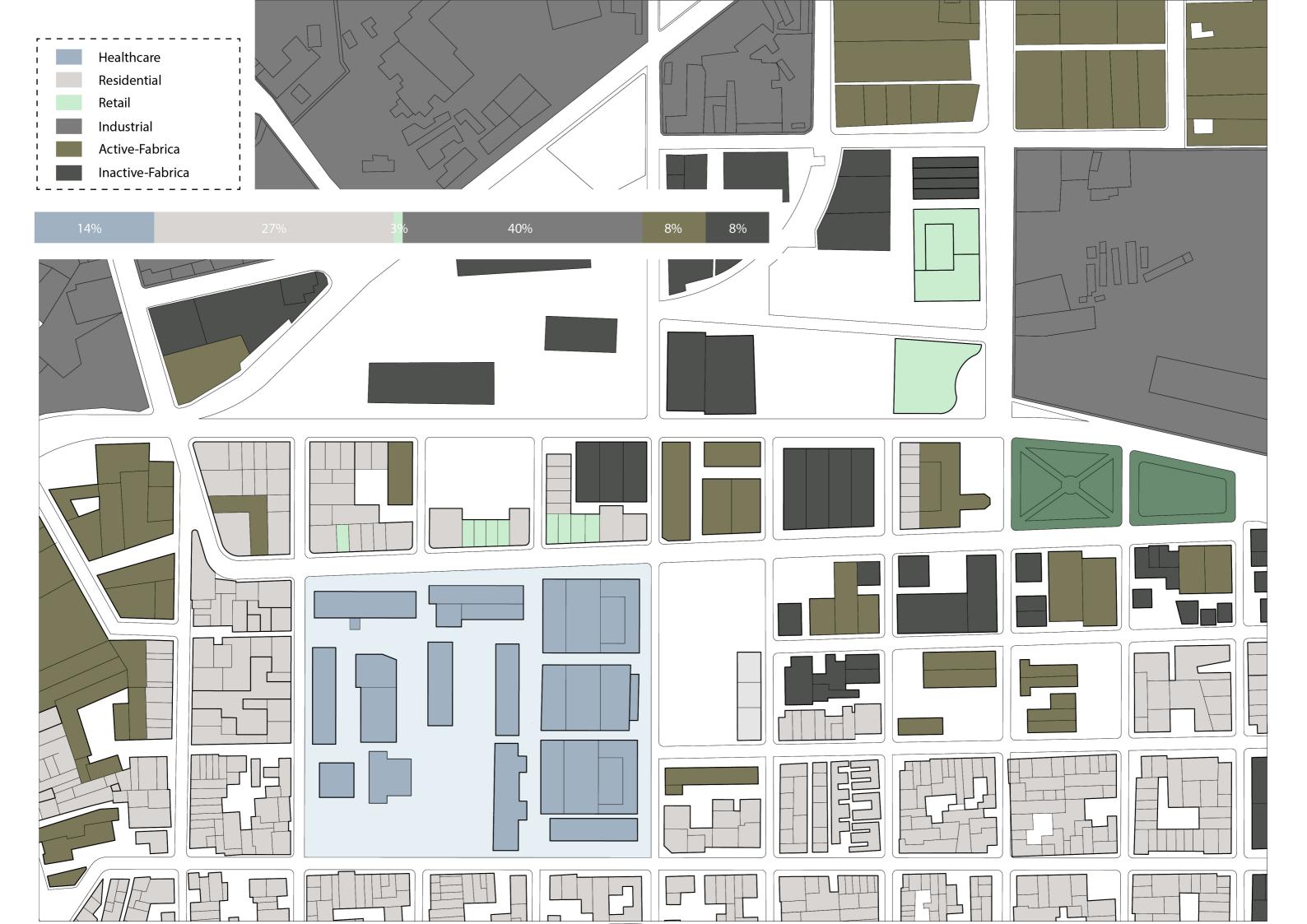
Site Selection and Project Nature

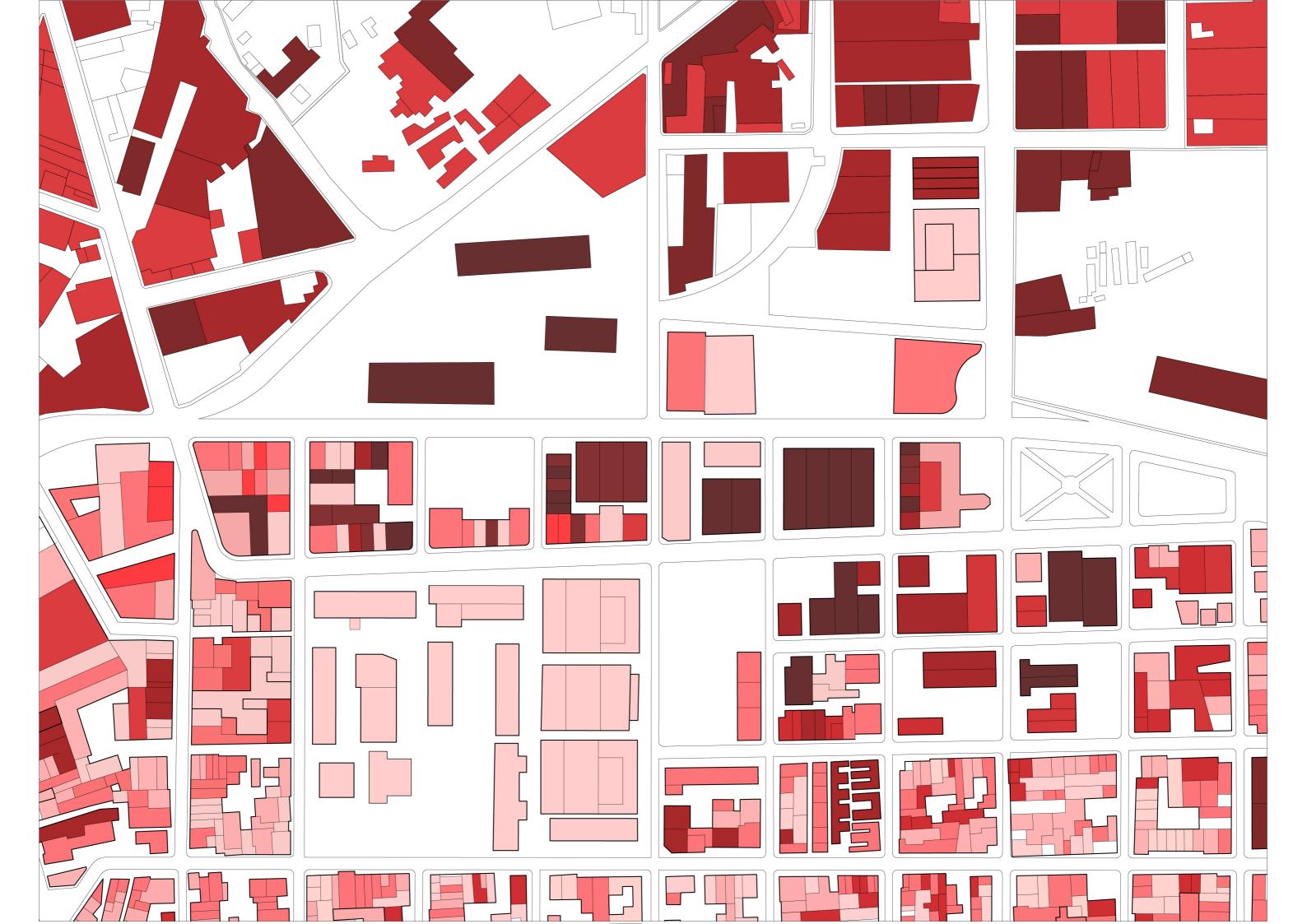
Where To?

What To?

How To?

When To?

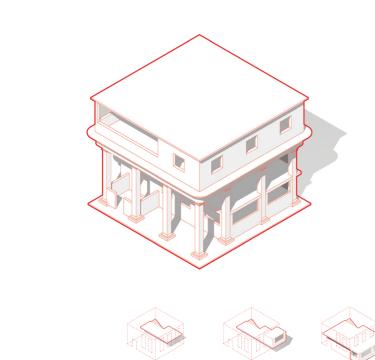




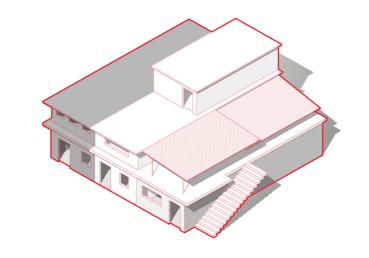


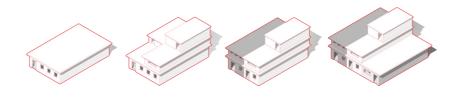
How to Intervent:

Learning from Local Extension Typologies

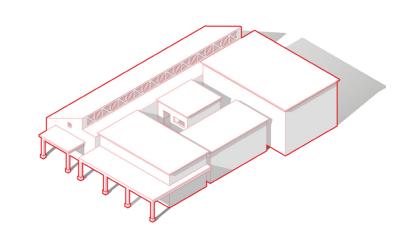


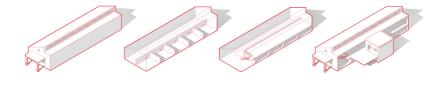












Category IV: *Metamorphosis*





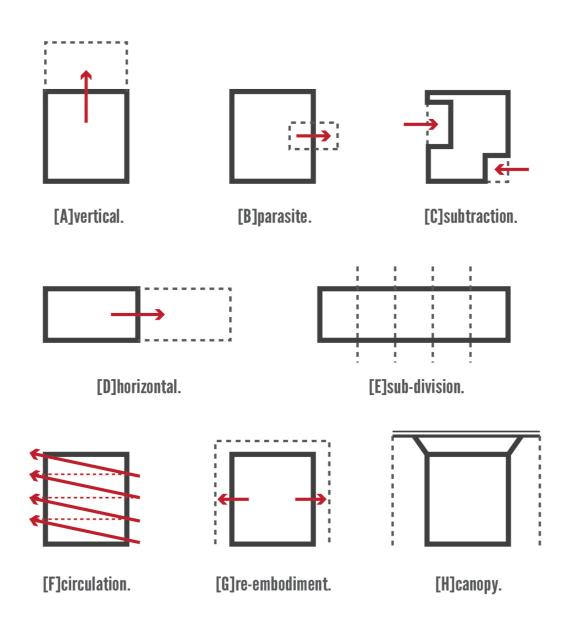






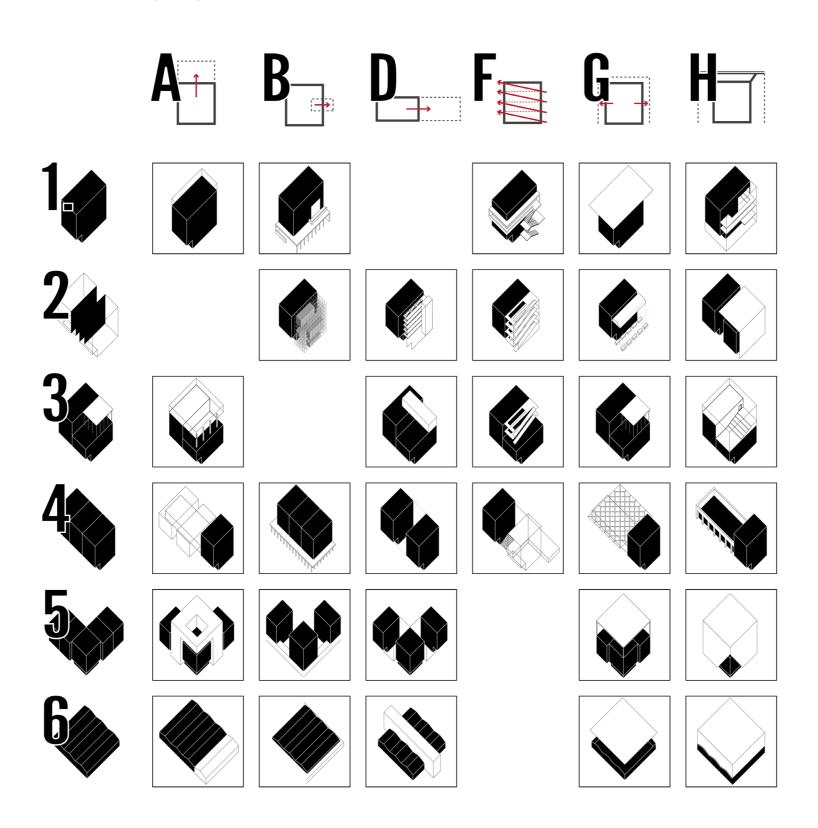
How to Intervent:

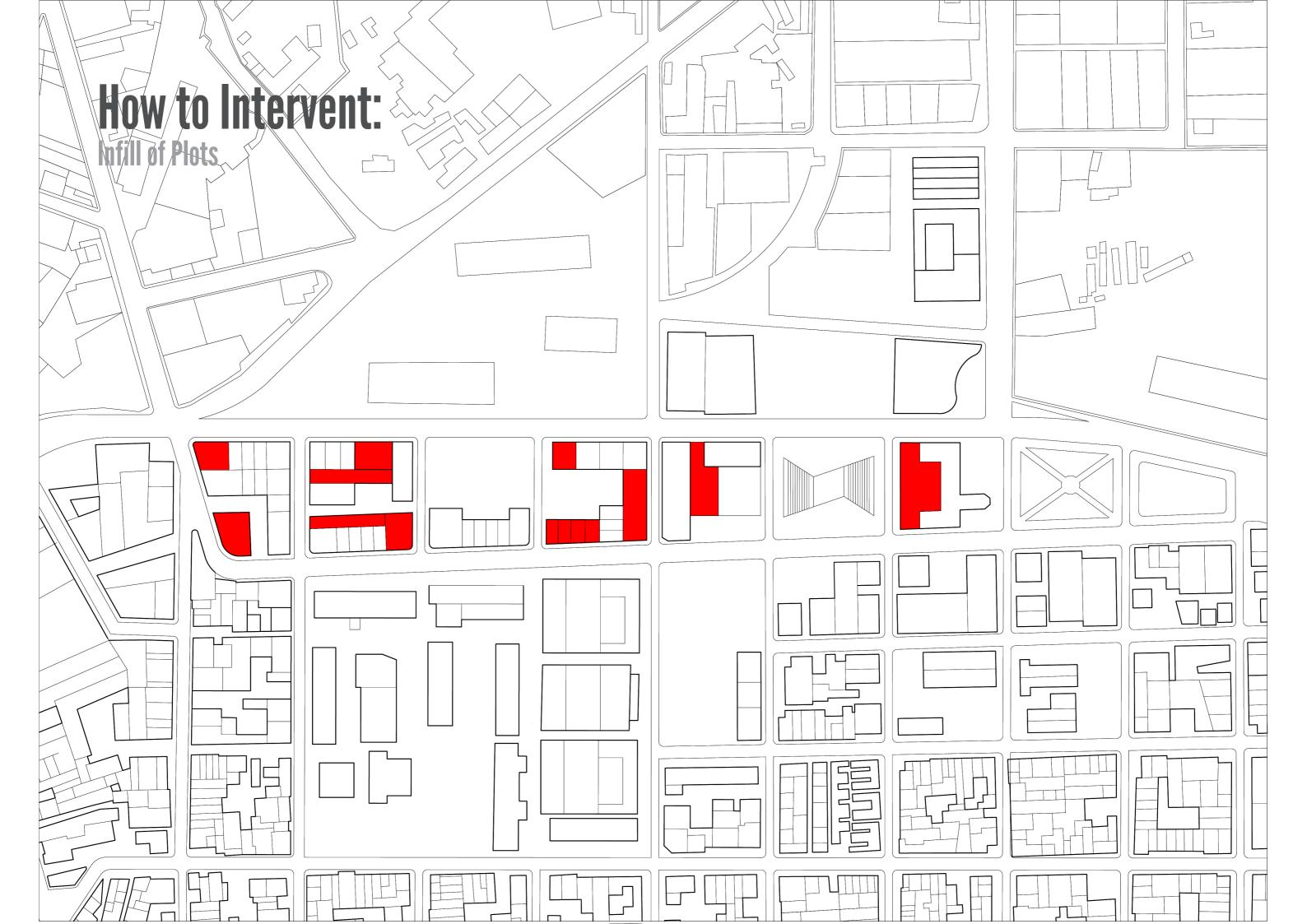
Abstraction of Typologies to Strategies



How to Intervent:

From Strategies to Architectural Language





What to Intervent:

Cultural Programs extracted from Case Studies

1. TRAINING



2. PRACTICE



- Arts

Music Studio x4	600 sqm.
'Instrument Practice Space x5	400 sqm.
Dance Studio x2	500 sqm.
Gym x1	500 sqm.
Studio Theater x1	1000 sqm
·Visual Art Workshop x2	1000 sqm

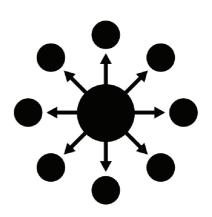
- Business

Lecture Rooms x8	1000 sqm
·Classrooms x2	400 sqm
'Multimedia Room x1	300 sqm
Fabrication Laboratory x3	400 sqm
Library x1	400 sqm

- Workshop

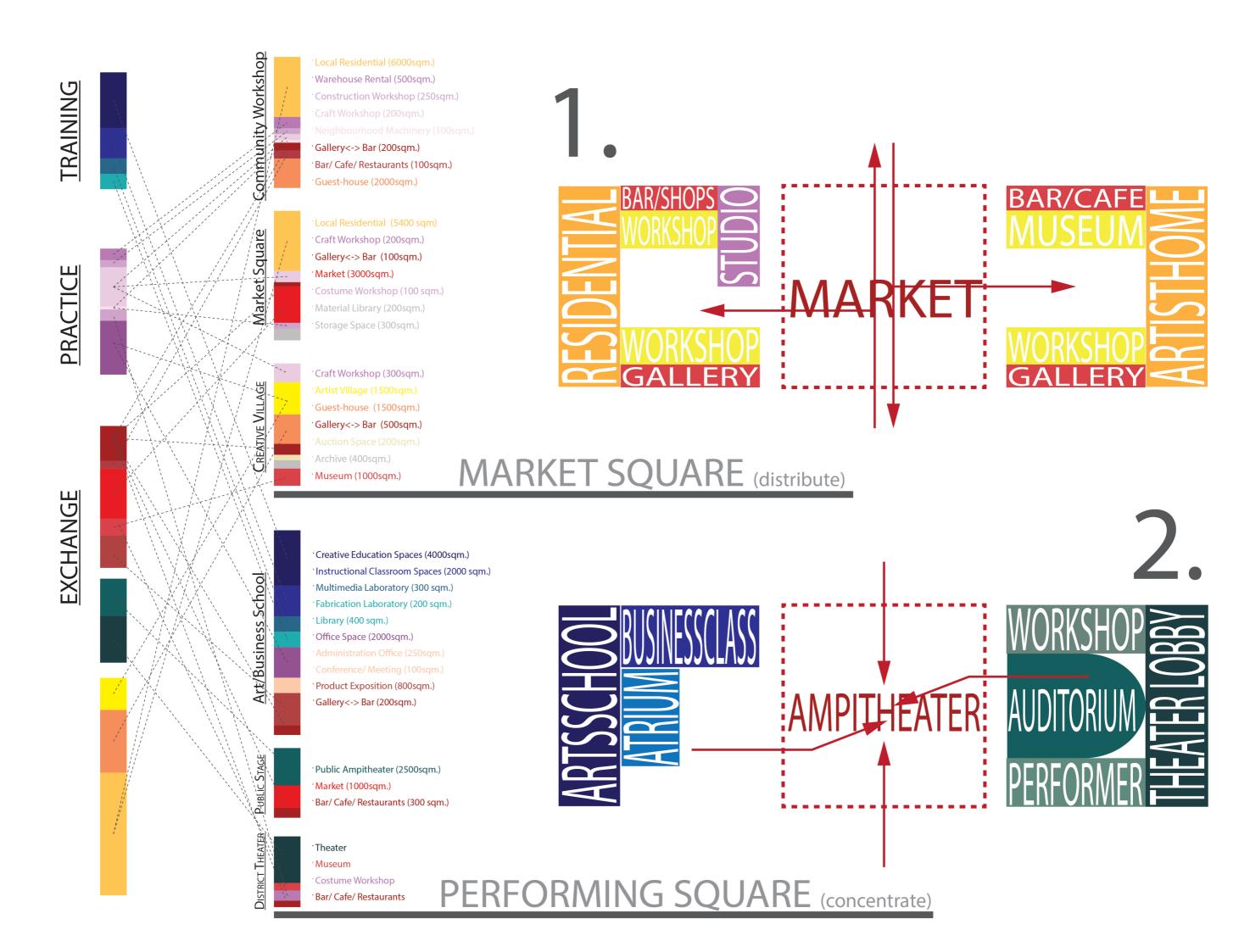
· Warehouse Rental x8	500 sqm.
· Construction Workshop x1	250 sqm.
· Craft Workshop x6	200 sqm.
· Material Library x1	100 sqm
· Storage Space x2	200 sqm
Office Space x2	2000 sqm
· Start-Up Incubators x3	1000 sqm
· Administration Office x2	250 sqm
*Conference/ Meeting x2	100 sqm
Product Exposition x1	800 sam

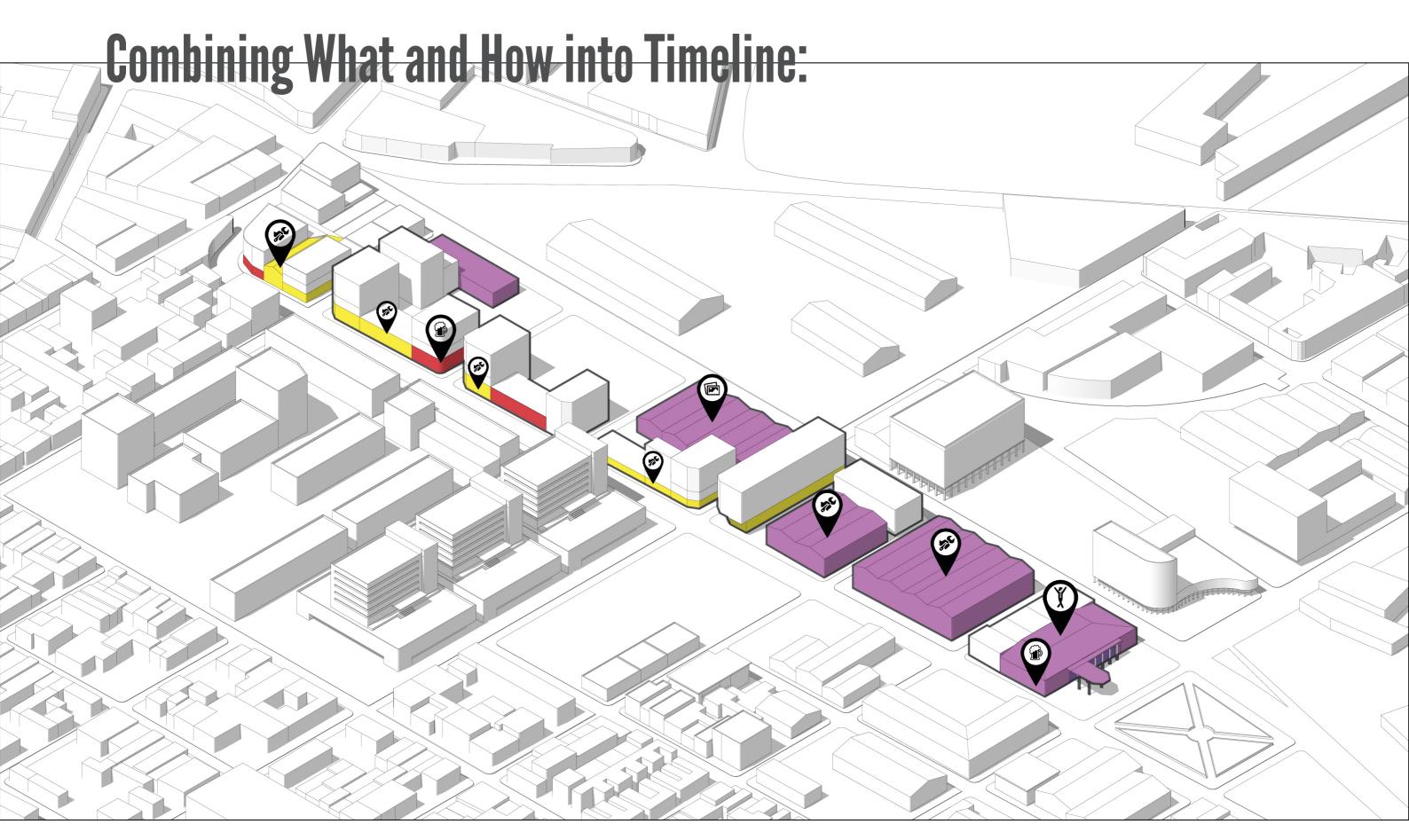
3. EXCHANGE



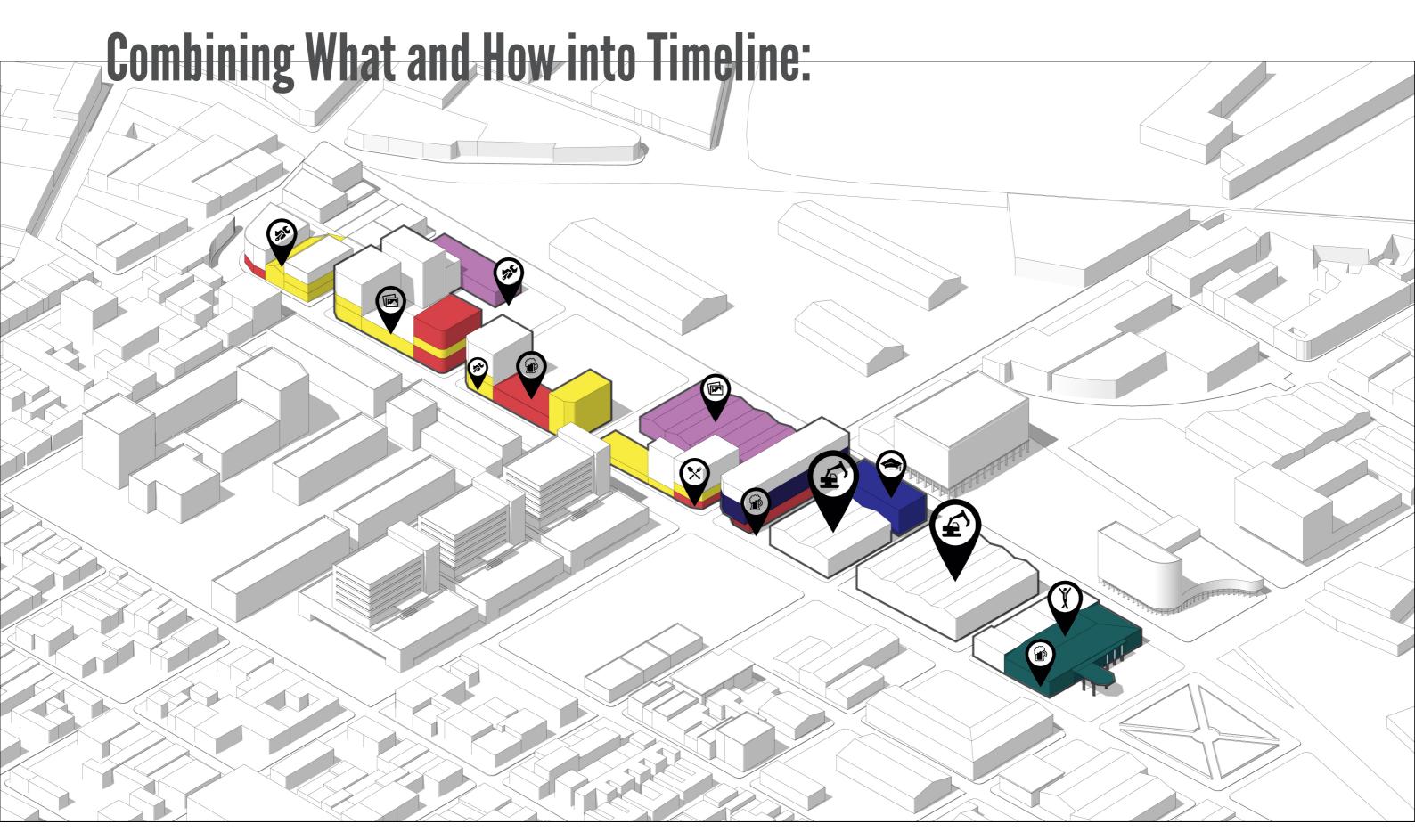
- Exhibition

Gallery<-> Bar x5	1000 sqm.
· Market x2	4000 sqm.
· Auction Space x1	200 sqm.
· Archive x2	500 sqm.
· Museum x3	2500 sqm.
- Performance	
·Theater x1	2500 sqm.
Public Ampitheater x1	2500 sqm.
Square/ Park x4	4000 sqm.
- Retail Bar/ Cafe/ Restaurants x5	500 sqm.
- Accomodation	
Artist Village x45	2500 sqm.
Guest-house x80	4500 sqm.

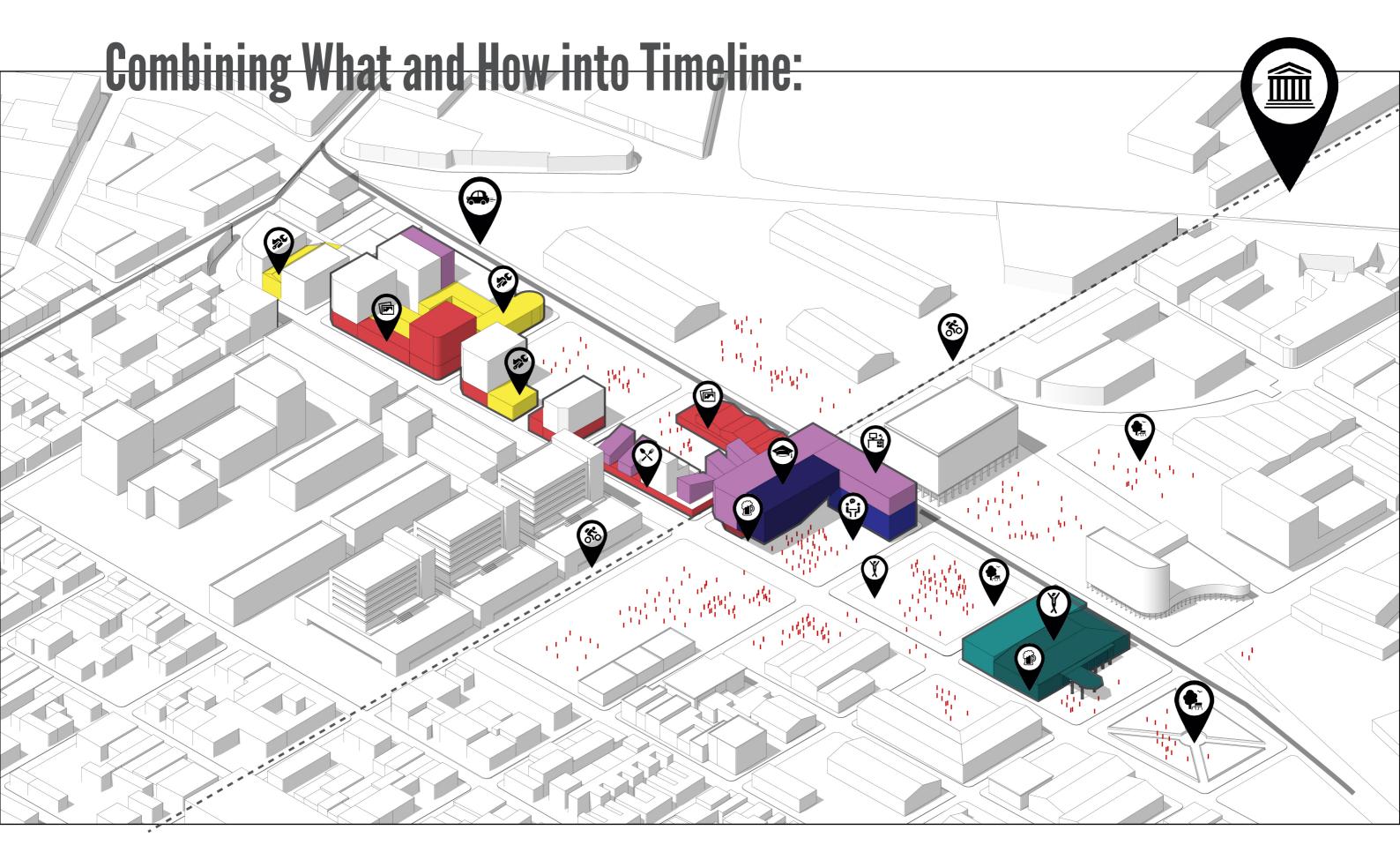




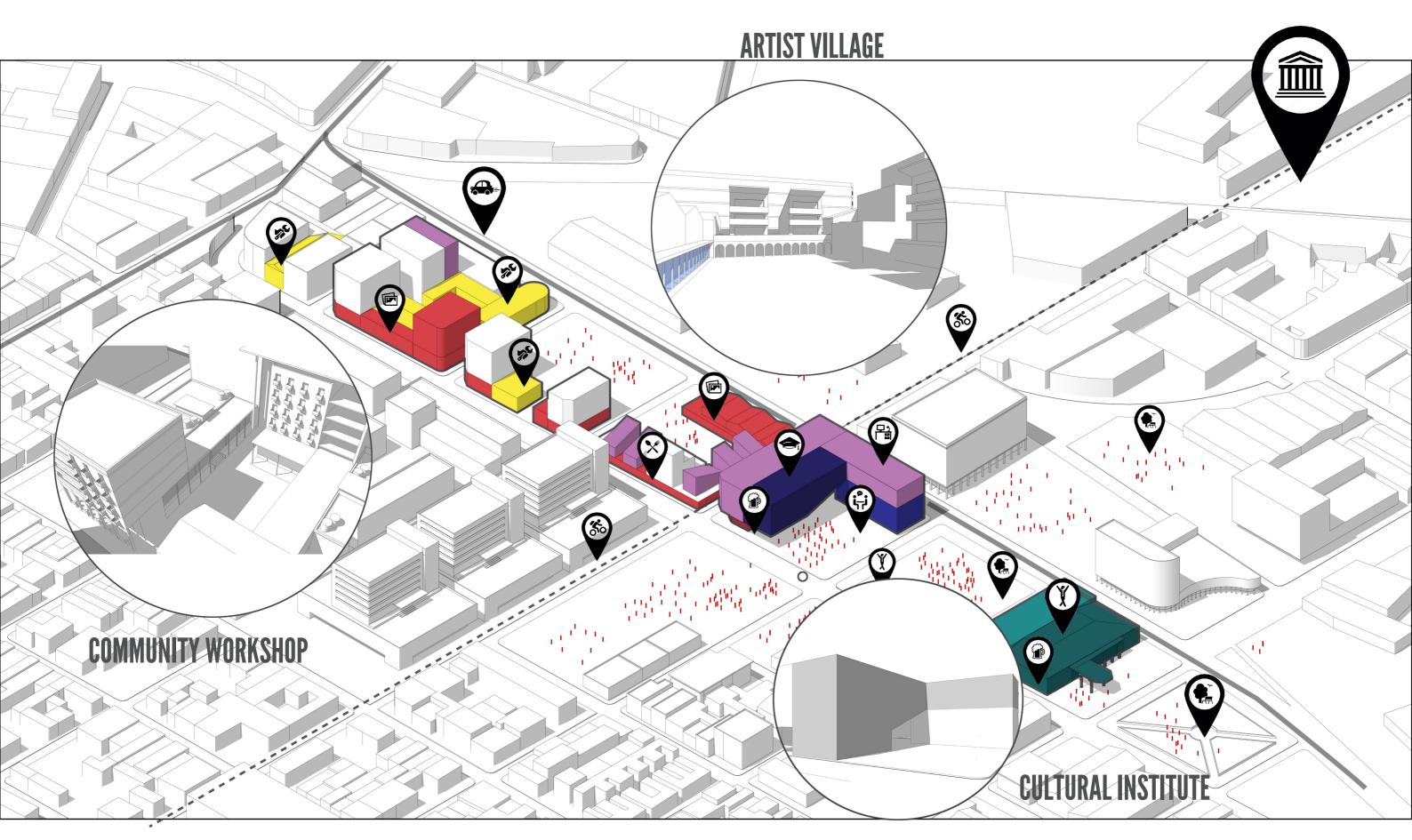
in 5 Years, the ground floor spaces of the strip could be reoccupied with retail, empty warehouses could accomodate practical workspaces both being too expensive and competitive in other parts of city now available to new private entrepreneurs and creative class.



in 10 Years, the Occupation of the structures would go vertically, institution is formed to organize different spaces and warehouses as intermediate construction center.



in 20 Years, When Cultural District achieved a balance between Practical Space, Event Stage and Local Business.



in 20 Years, When Cultural District achieved a balance between Practical Space, Event Stage and Local Business, and would be able to categorise themselves into different domains.

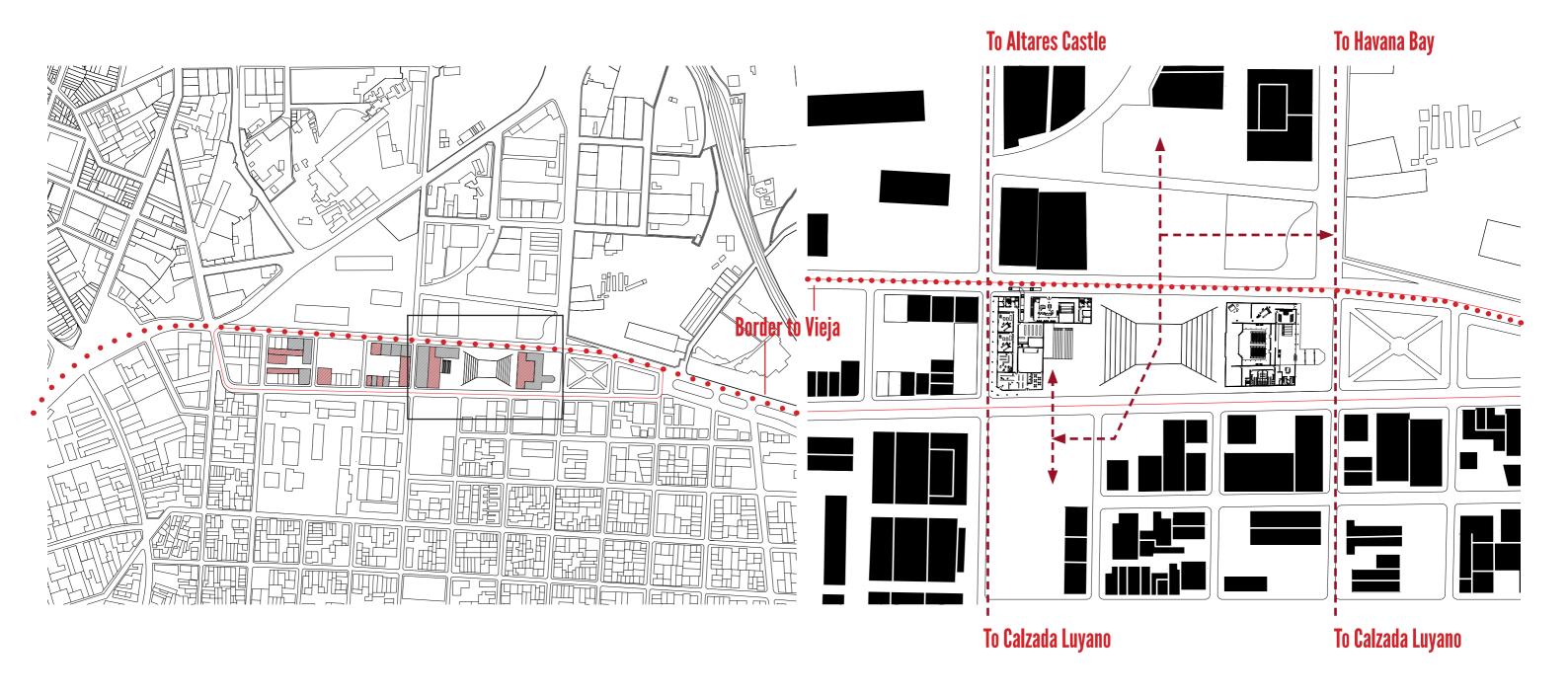
Architectural Scale of Interventing

Cultural Institution & Community Theater (Former Fabrica and Gas Station)

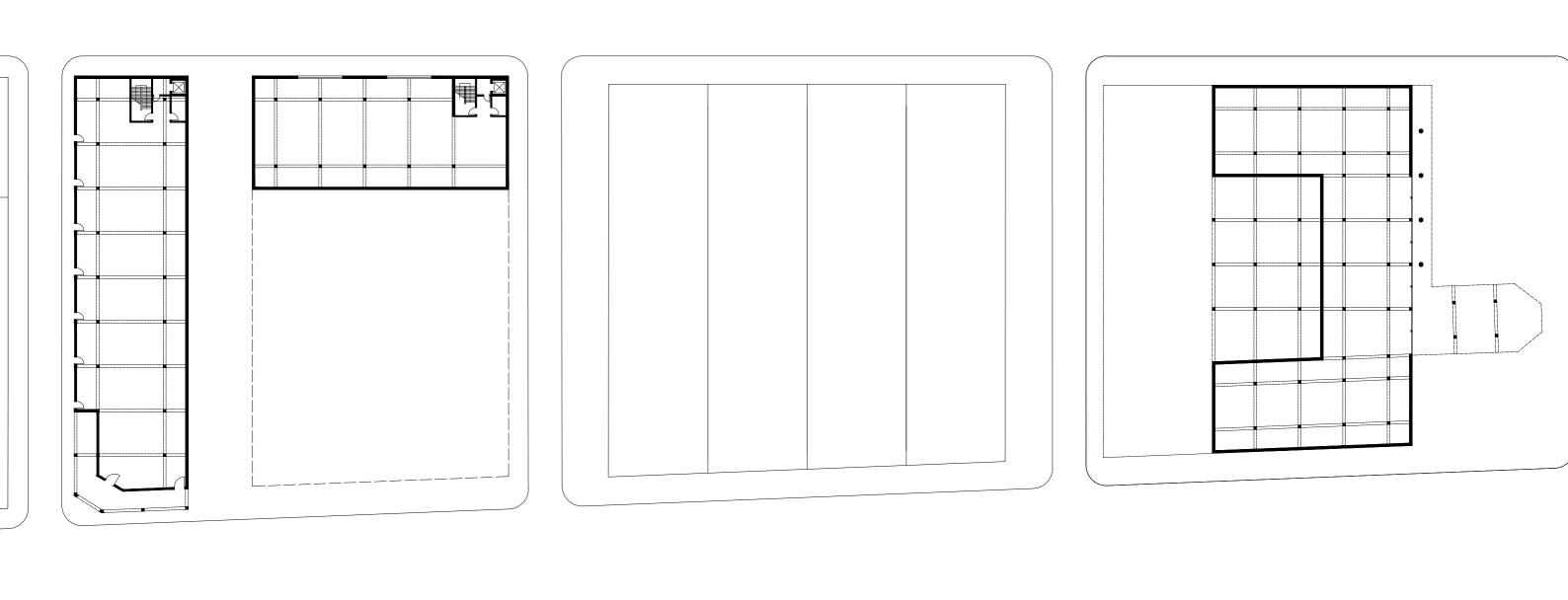
-Spatial Arrangements

- Material & Performances
- Structural Composition

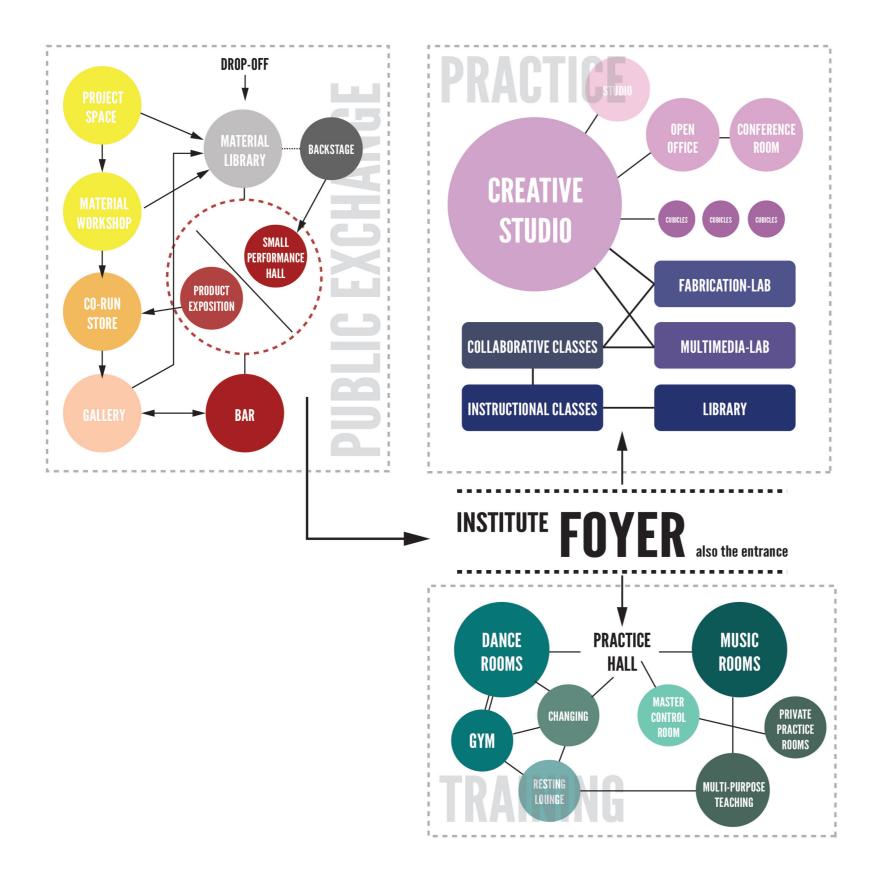
Specific Site Location:

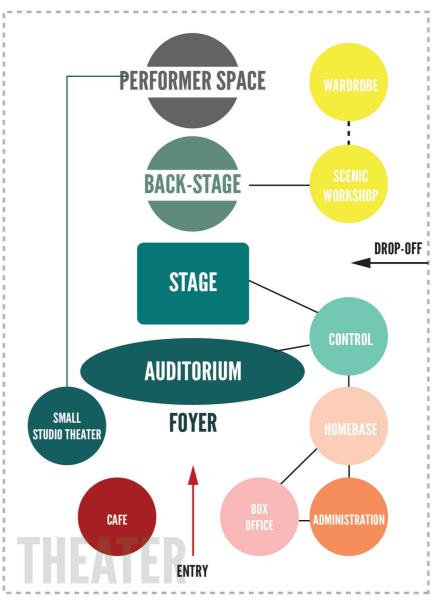


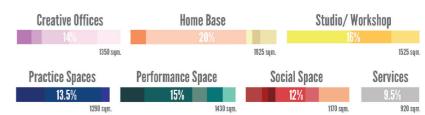
Existing Site Condition: Vacant Fabrica Building and Low Volume Gas Statio



Diagrammatic Program Implantation: Vacant Fabrica Building and Low Volume Gas Statio







Diagrammatic Program Implantation: Vacant Fabrica Building and Low Volume Gas Statio

5/F **Creative Co-Work Spaces**

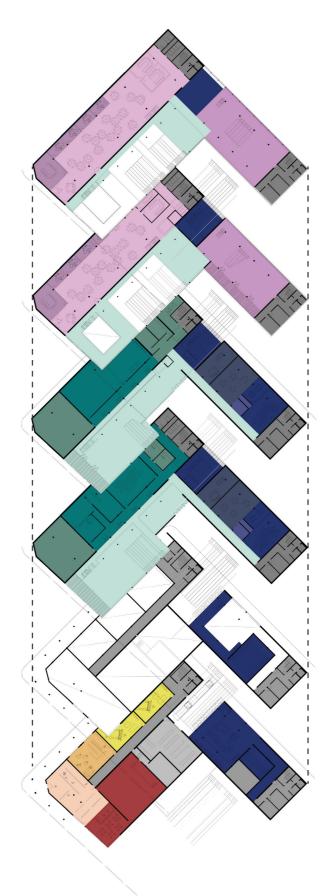
Creative Co-Work Spaces

3/F **Educational Spaces, Foyer Extension**

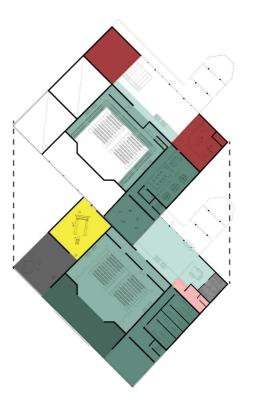
2/F **Educational Spaces, Foyer Extension**

Double Ceiling Space

Practical Workshops, Display, Social



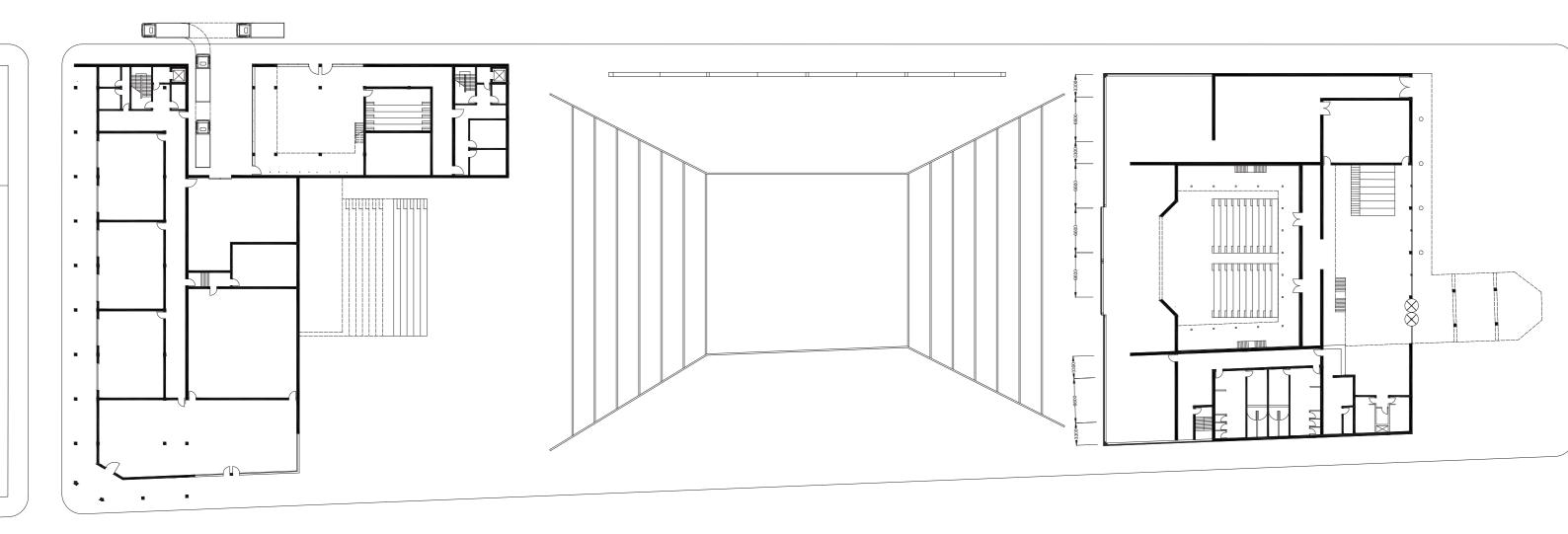


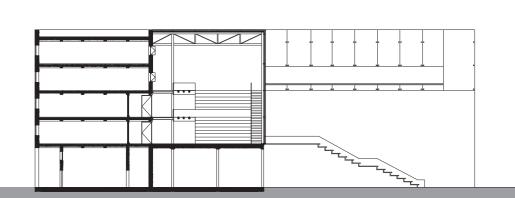


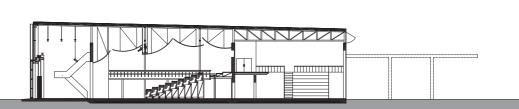
Balcony, Cafe, Practice

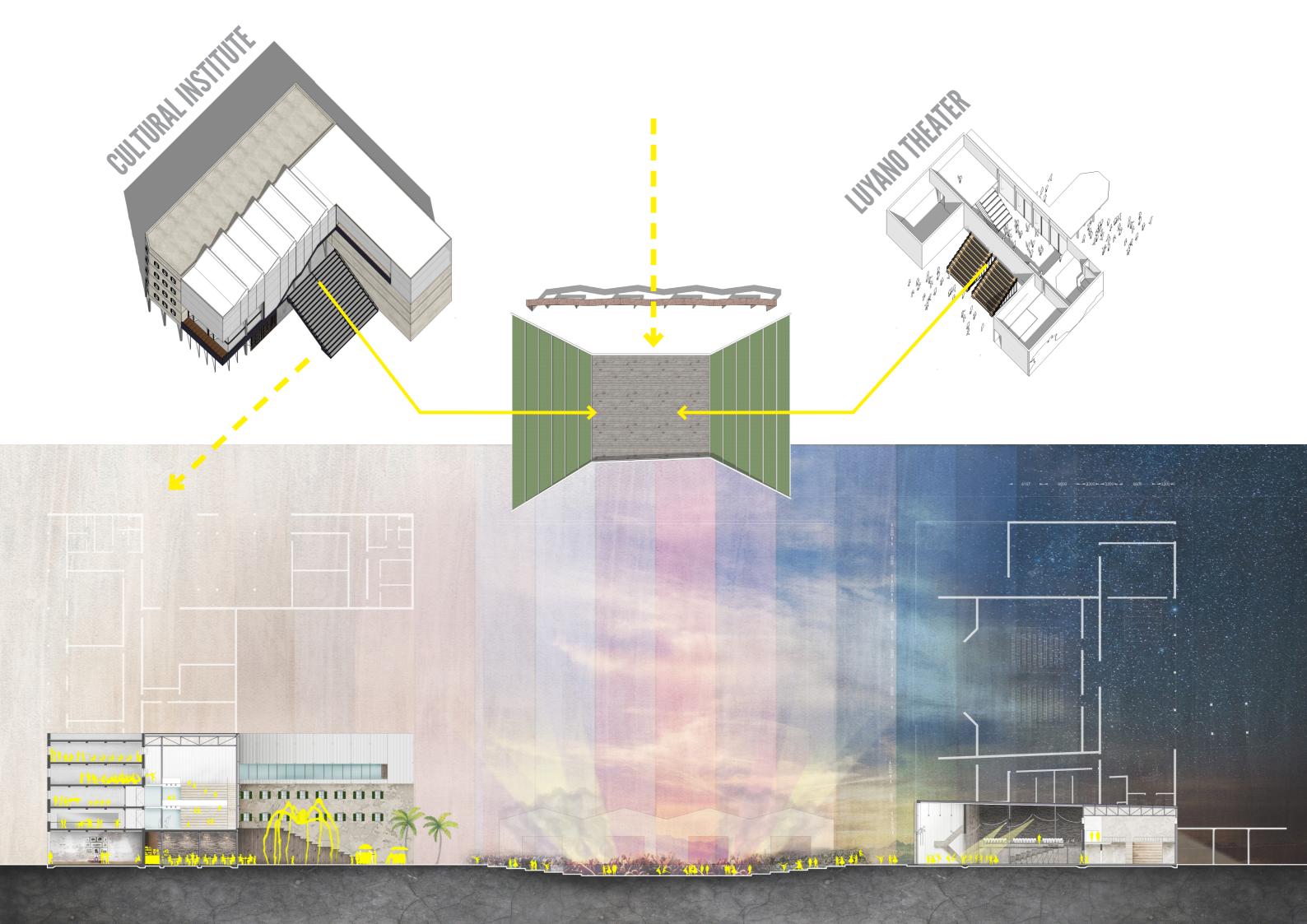
G/F Social, Workshop, Performer Spaces













DAY Rental Public Workshops Performing Arts Education Co-Working Spaces

DAY

Public Market
Park and Recreation
Theater as Practice Space





NIGHT

Foyer becomes Auditorium space Active Bar and Gallery

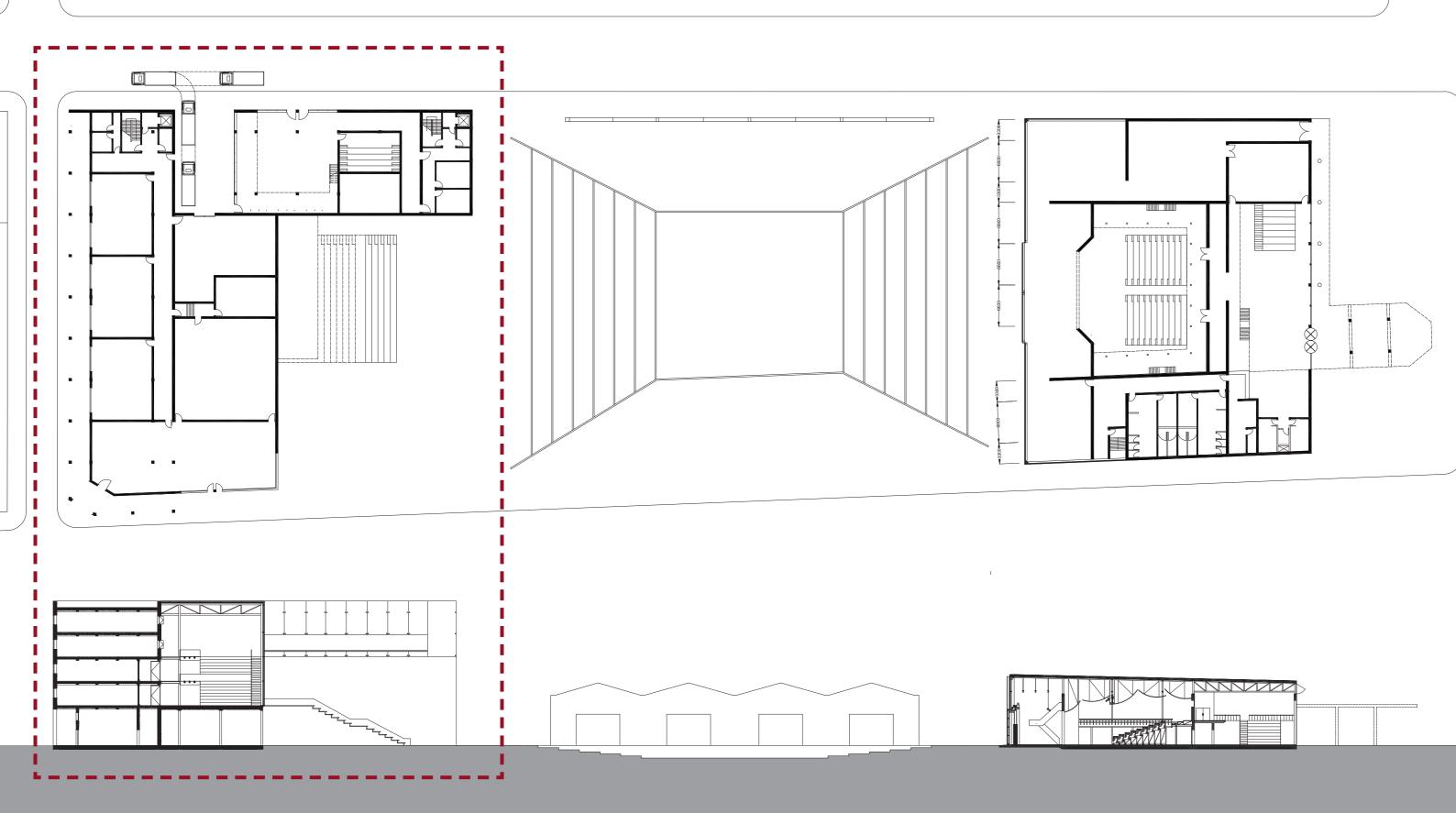
NIGHT

Superimposing Stages LIVE Music, Art Festival

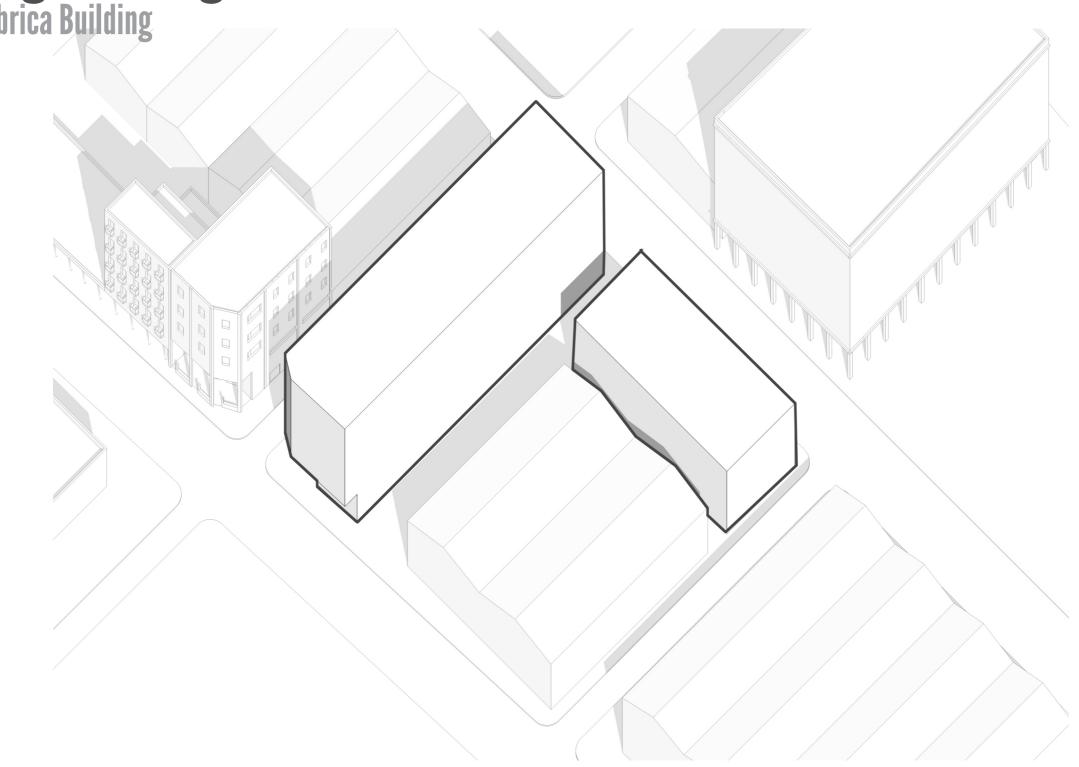


Revitalized Plan:

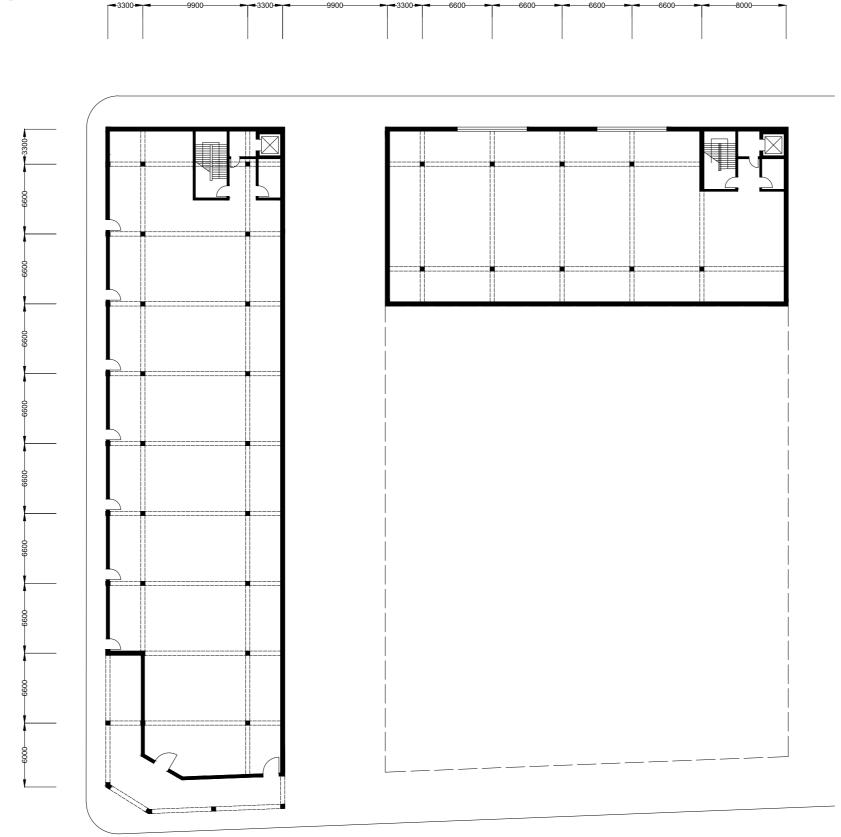
Extension to Old Structure as new shelter for Cultral Ecology



Existing Building Condition: Vacant Fabrica Building



Existing Building Condition: Vacant Fabrica Building



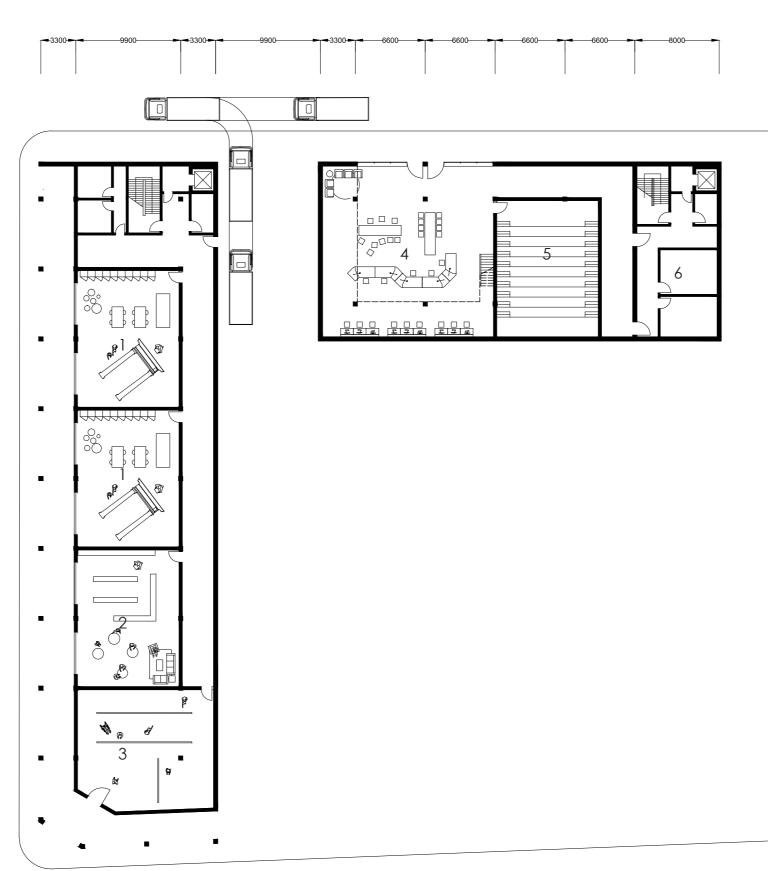
Existing Building Condition: Vacant Fabrica Building

- 1. Studio for Rent
- 2. Concept Store
- 3. Gallery Space
- 4. Project Space
- 5. Lecture Room
- 6. Toilet

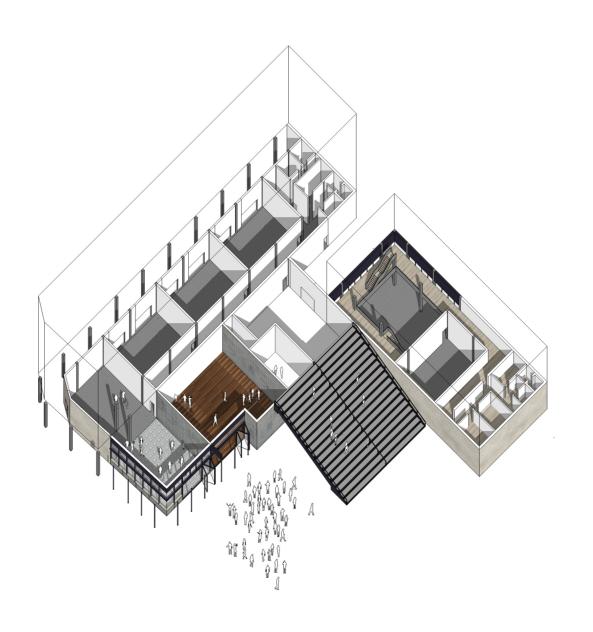


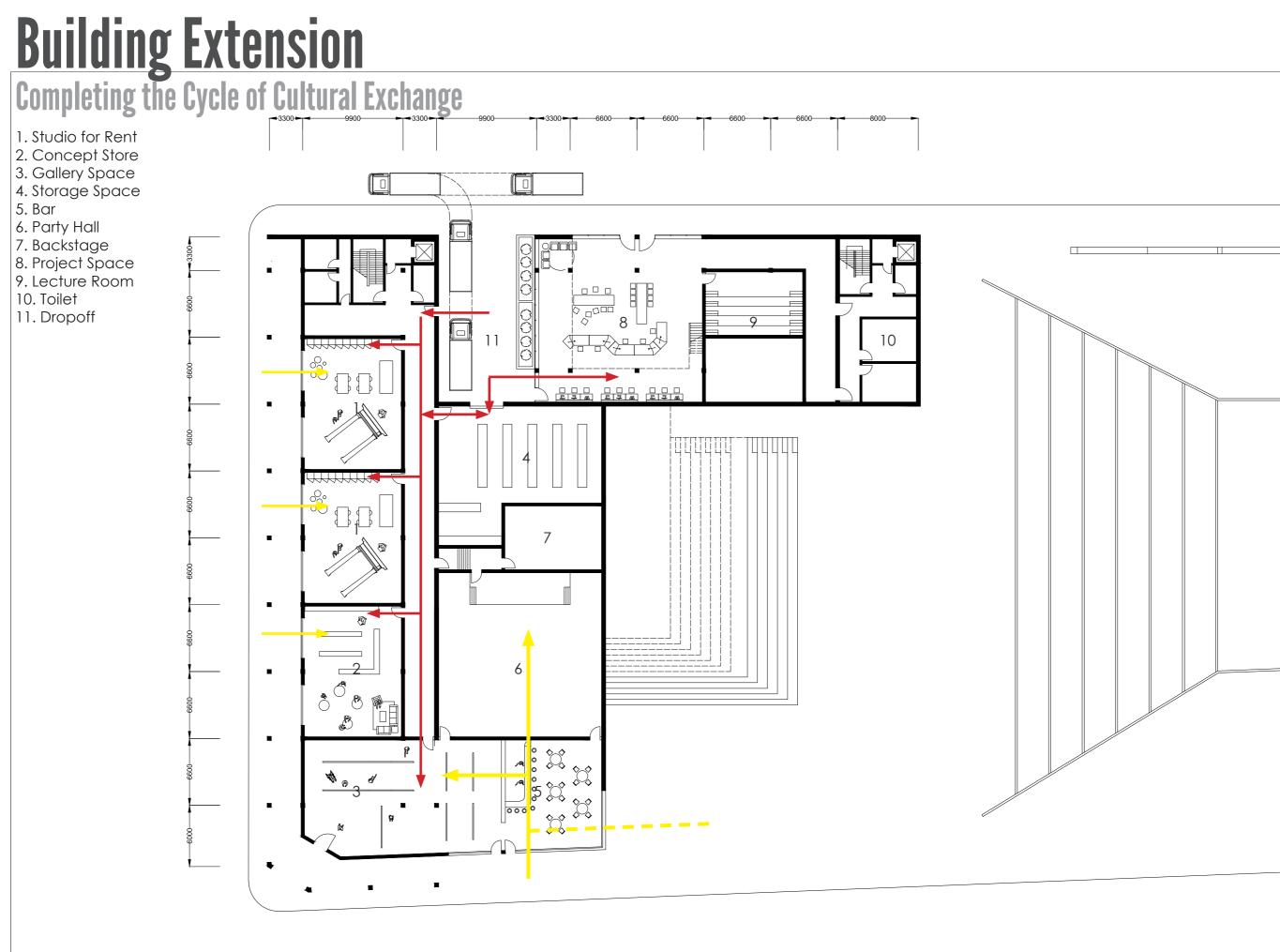


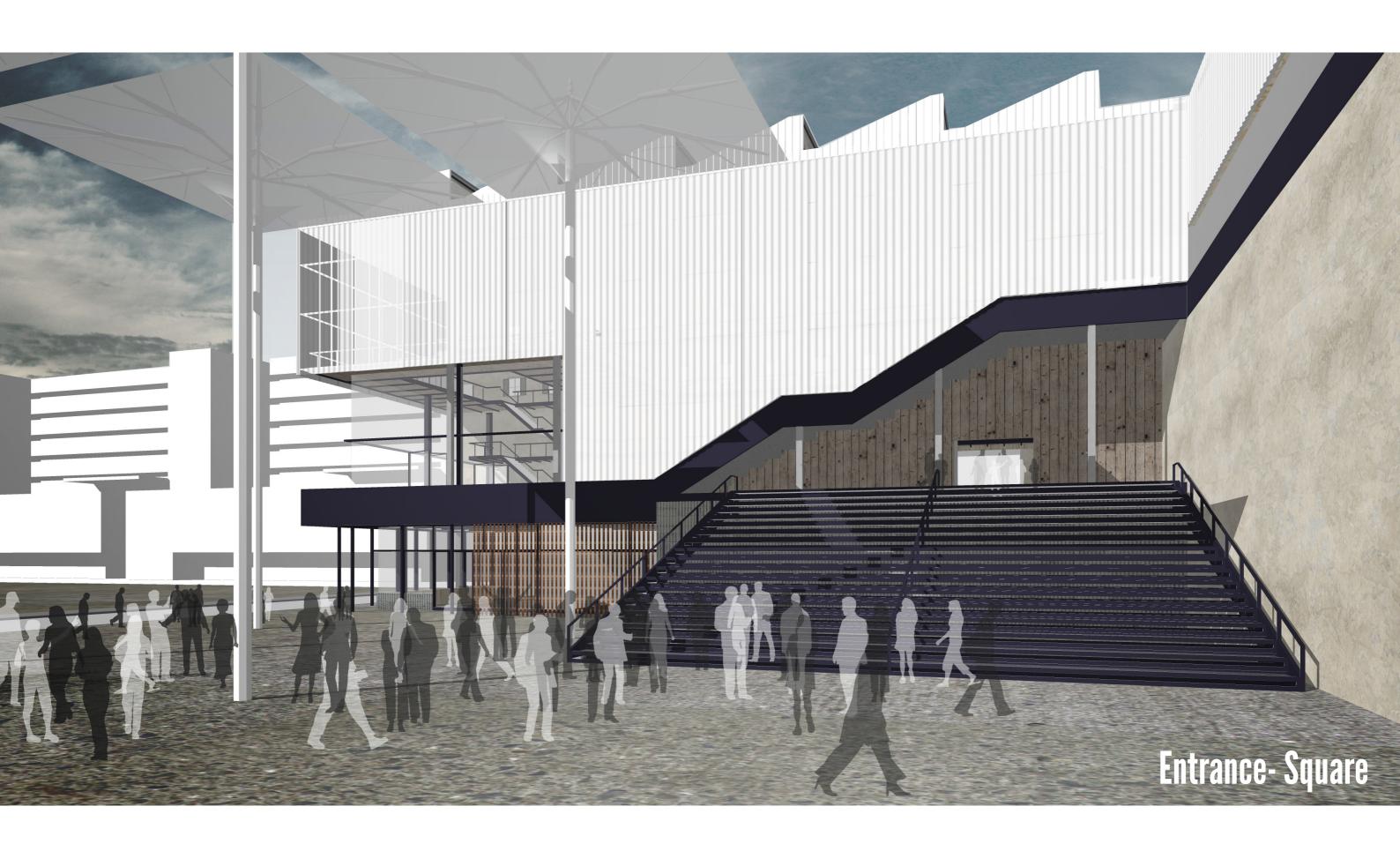




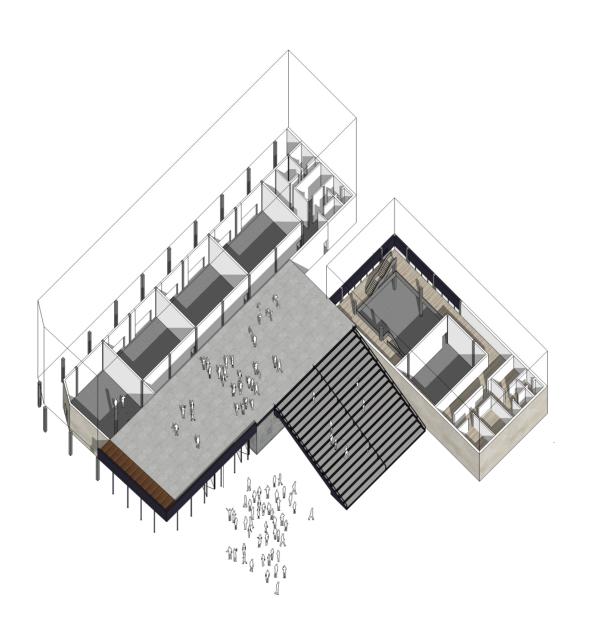
Building Extension: Completing the Cycle of Cultural Exchange



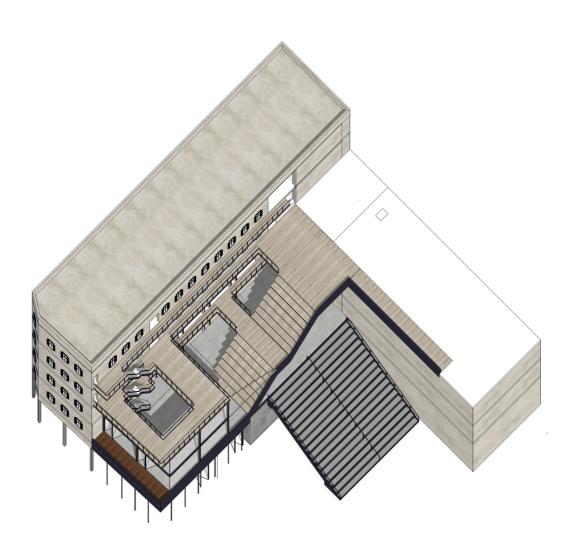




Building Extension: Terraces



Building Extension: New Circulation and Spatial Connectivity







Level of Institution,

1st Floor

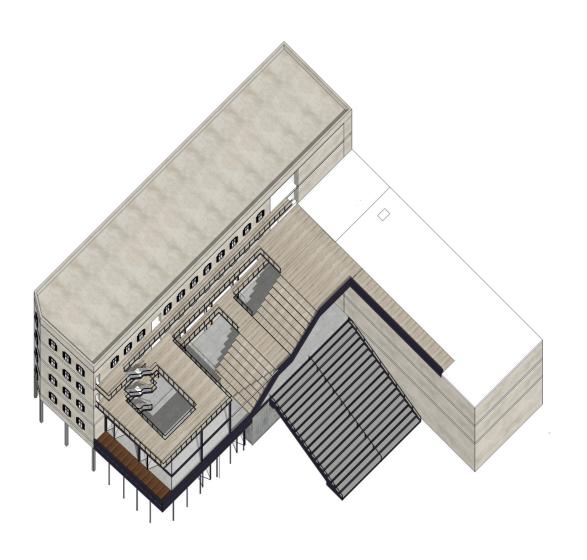


Level of Institution,

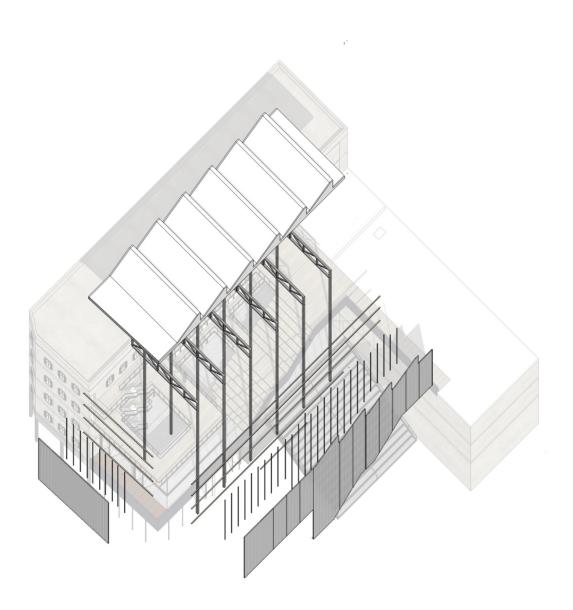
2nd Floor

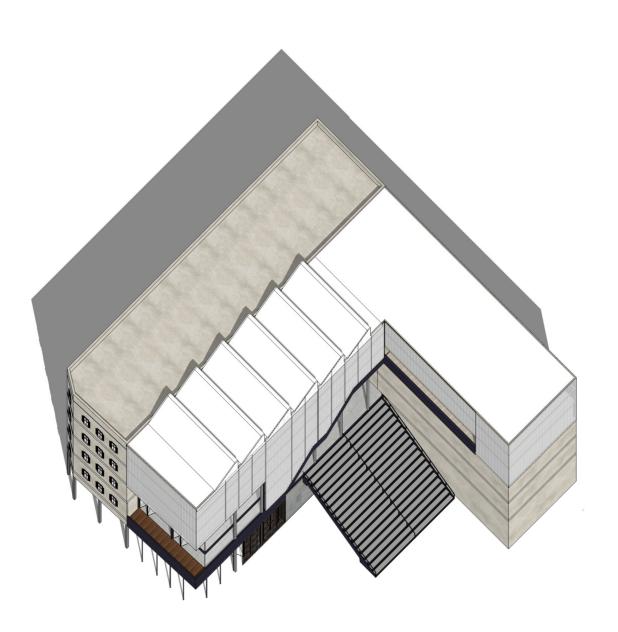


Building Extension: New Circulation and Spatial Connectivity



Building Extension:
New Skin and Roof to Improve Climatic Performances



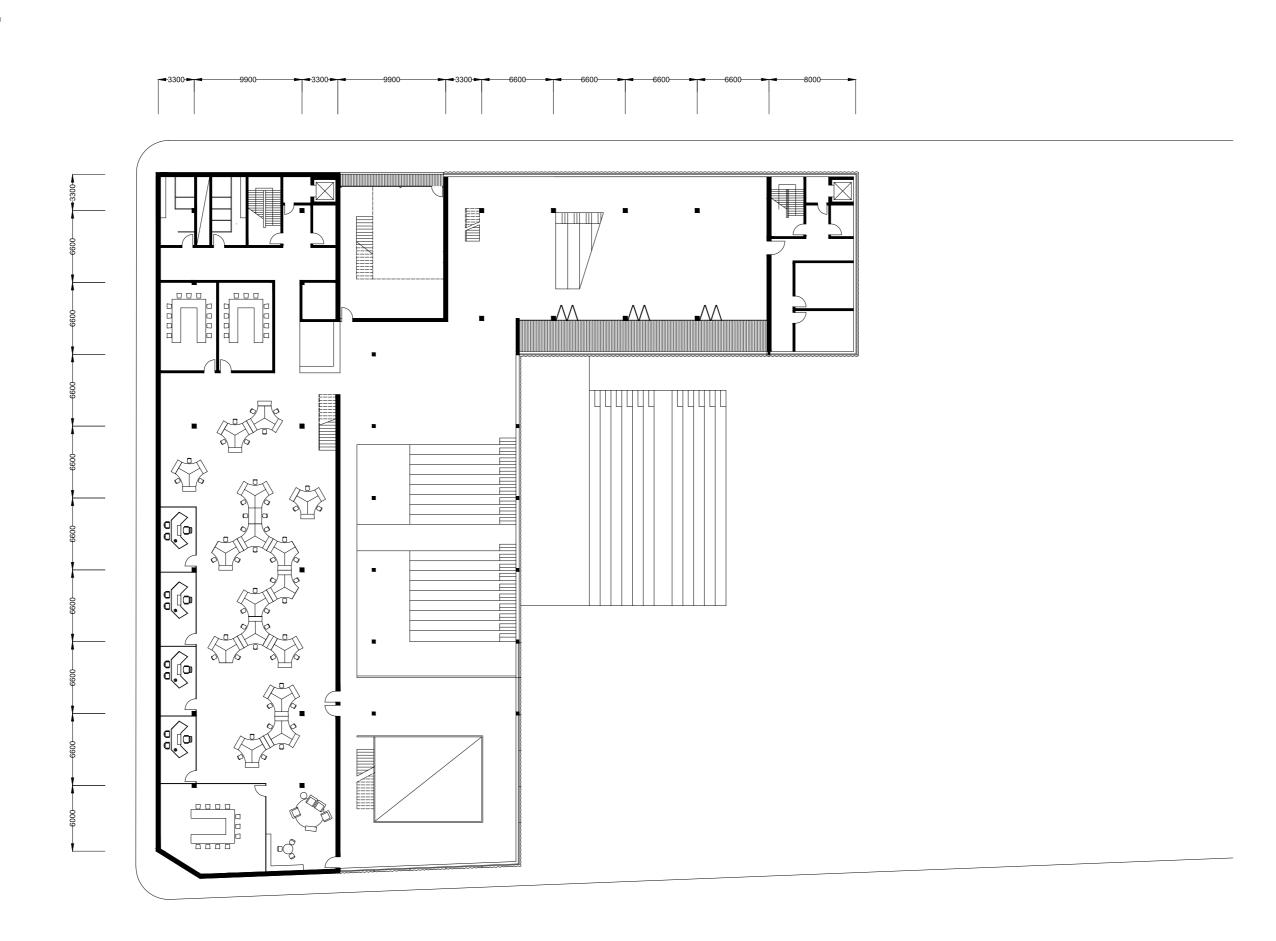






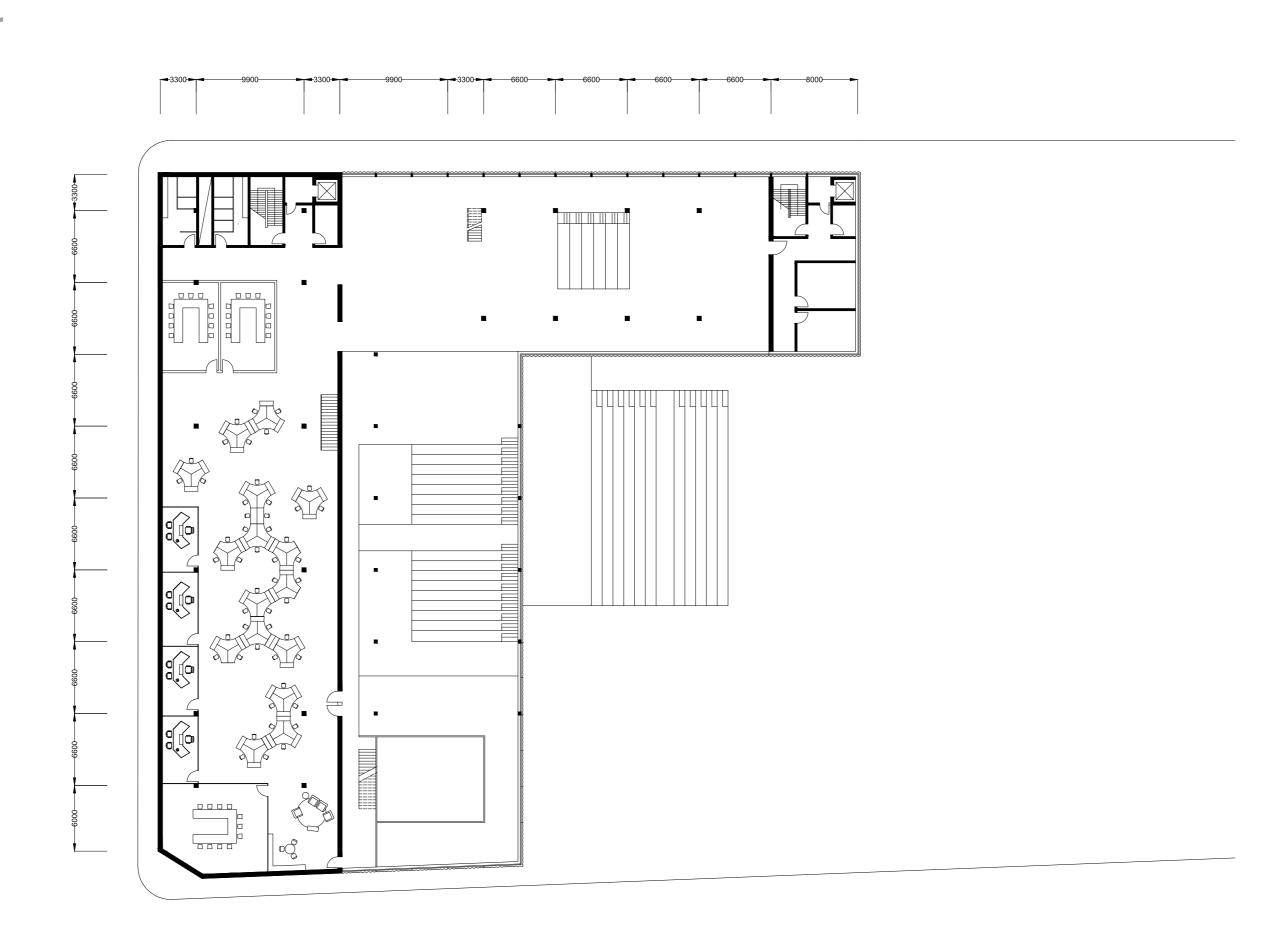
Level of Creative Offices

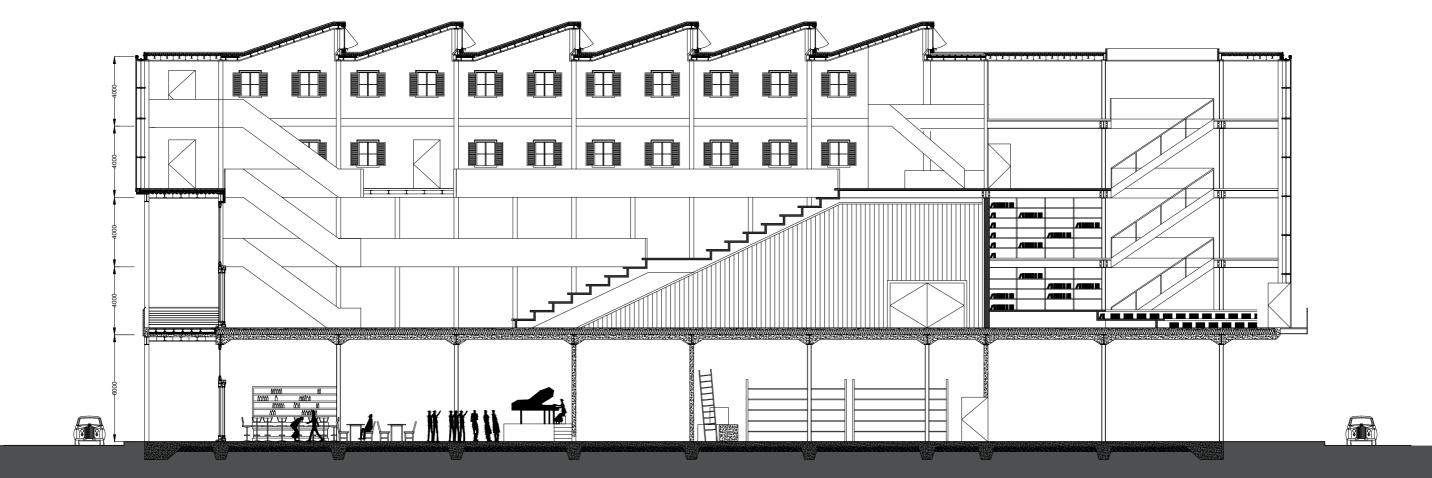
3rd Floor



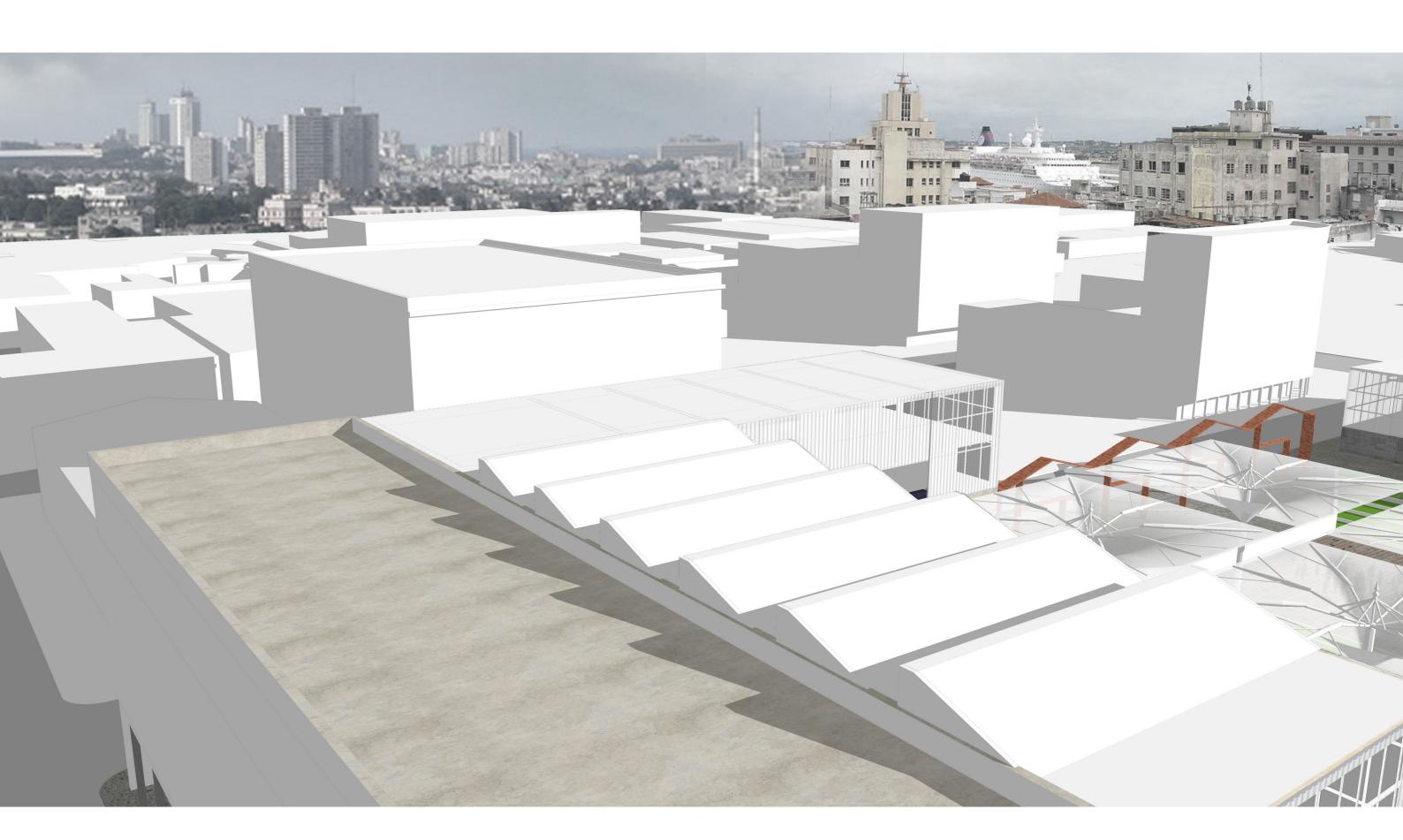
Level of Creative Offices

4th Floor



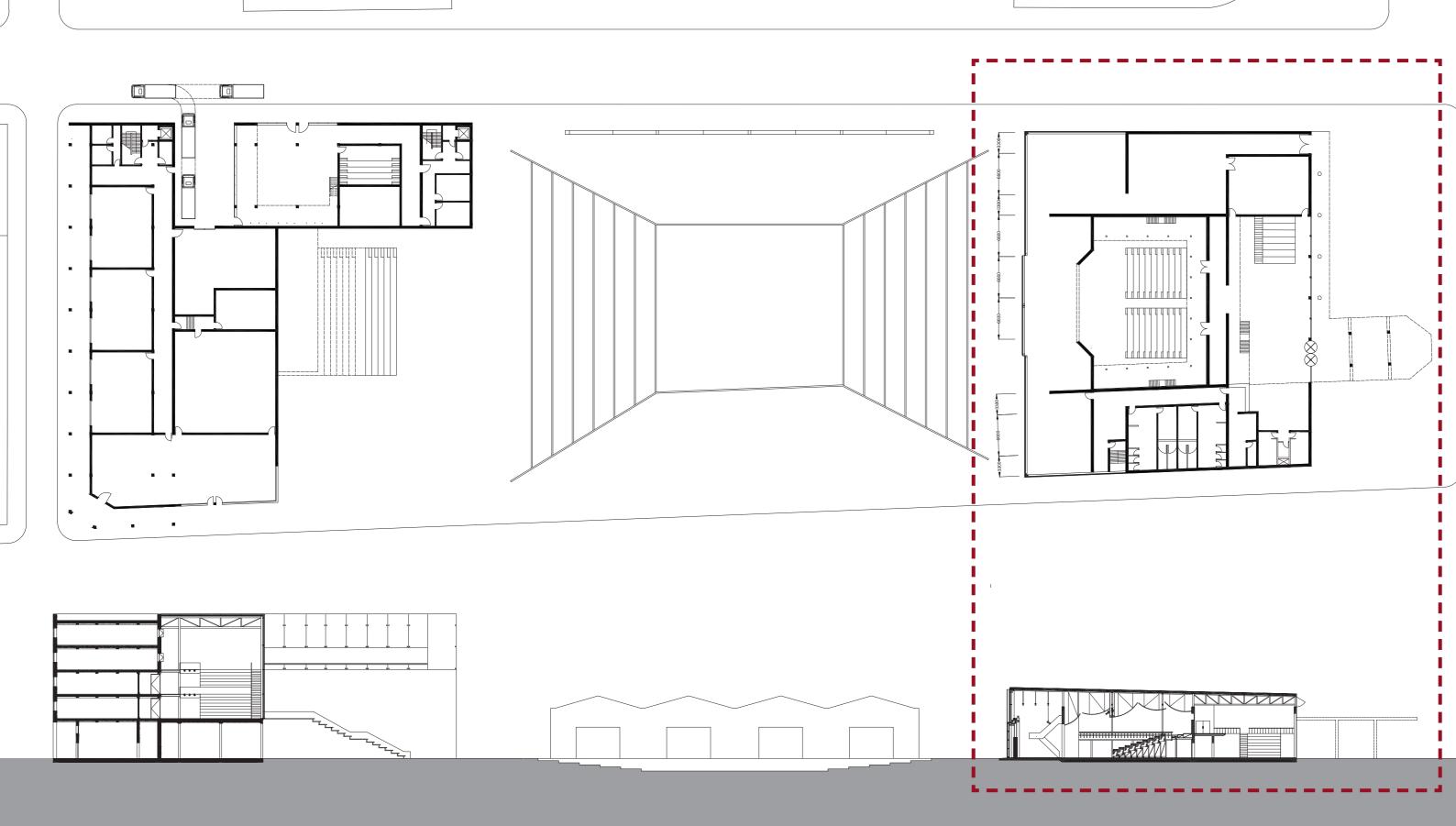




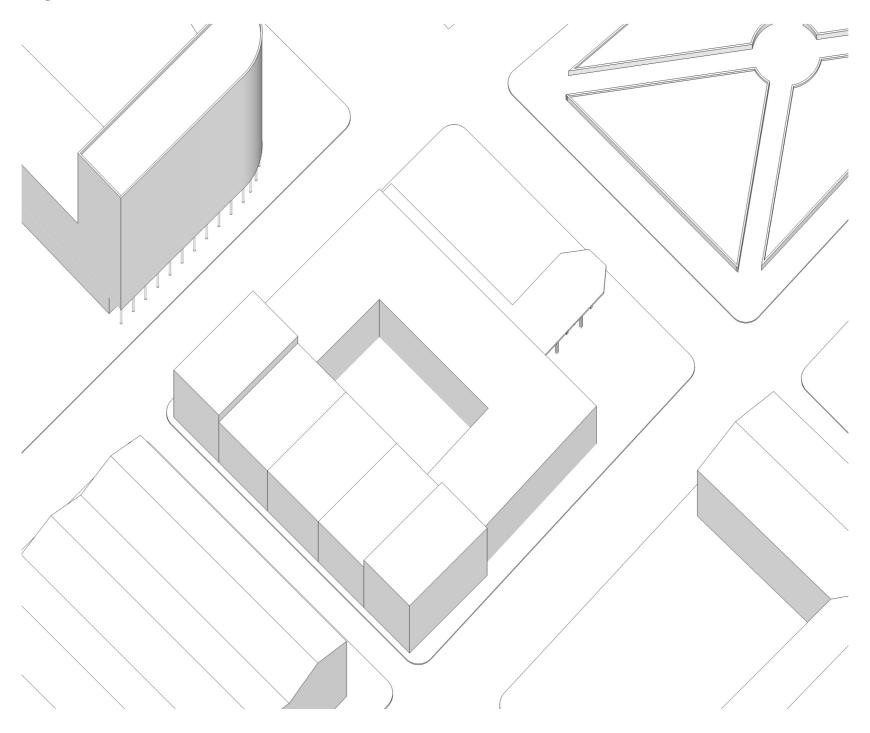


Revitalized Plan:

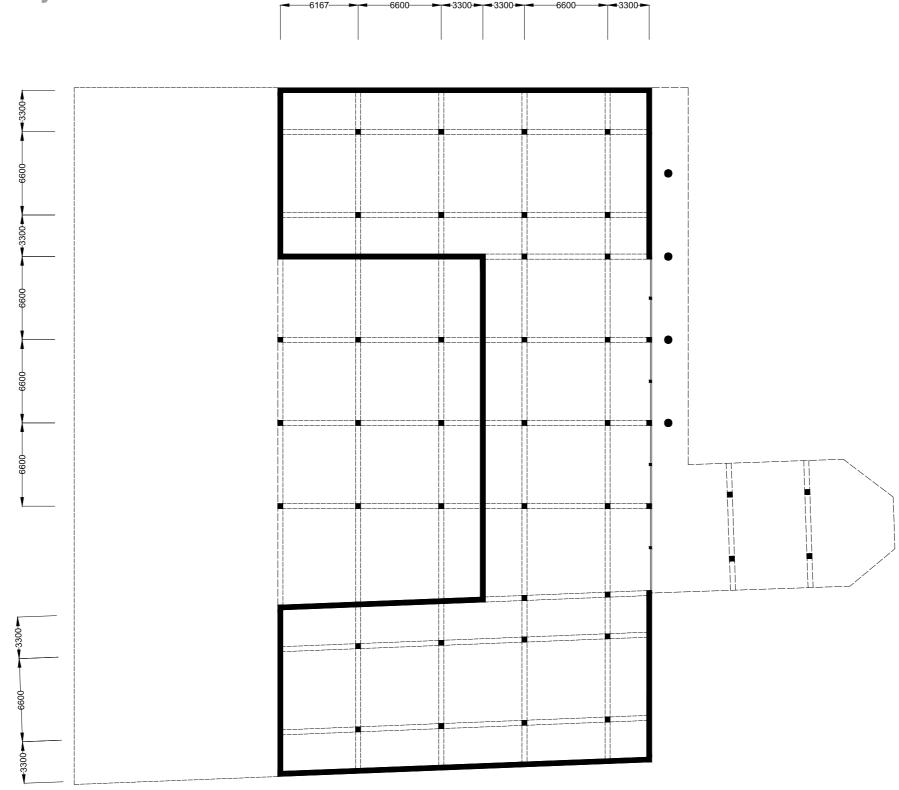
Extension to Old Structure as new shelter for Cultral Ecology



Existing Building Condition: Gas Station at Traffic Conjunction

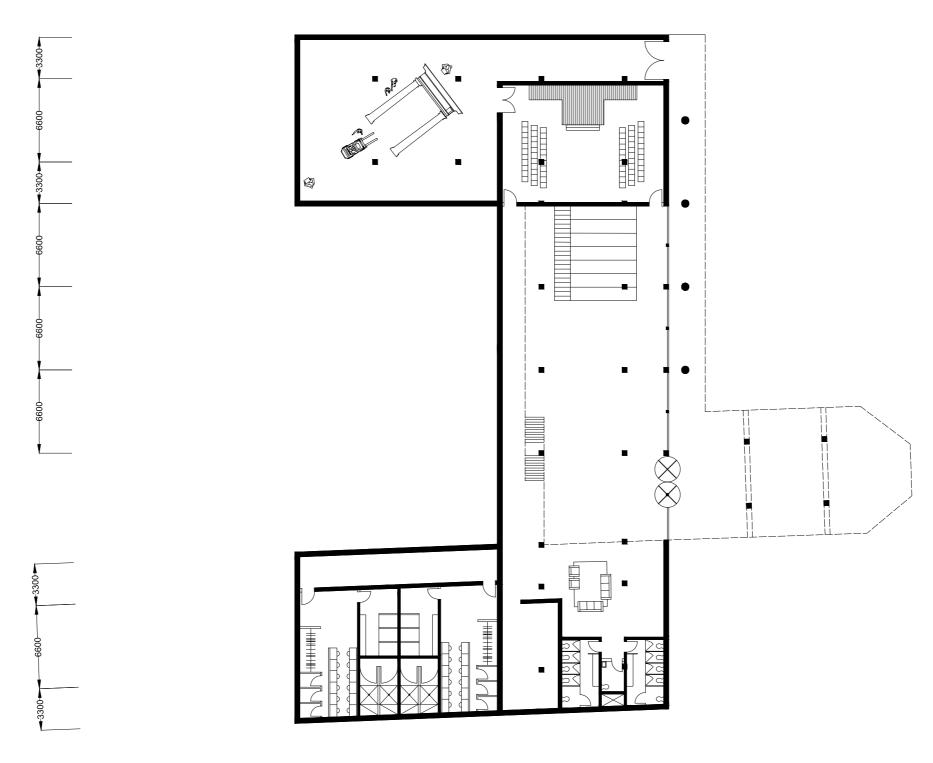


Existing Building Condition: Gas Station at Traffic Conjunction



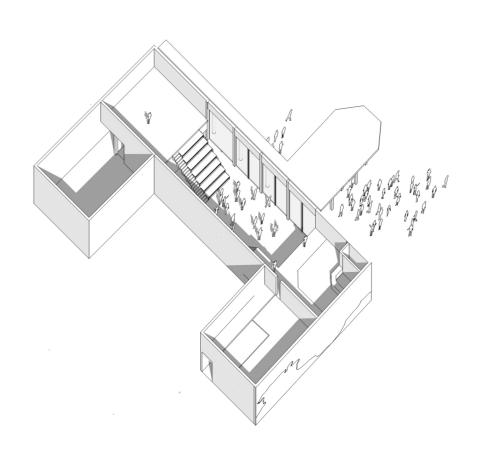
Transition Plan

Workshop Spaces and Performer Room in Wings,
Foyer as Performing Space



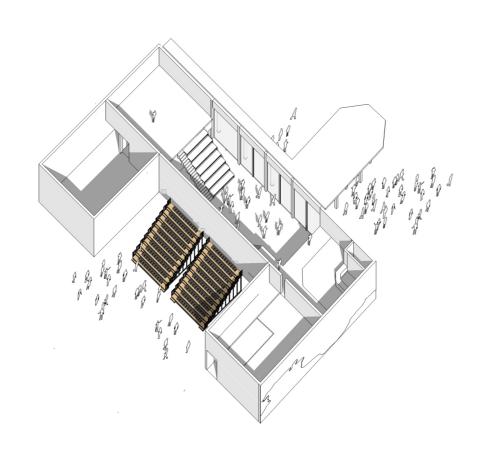
Transition Plan

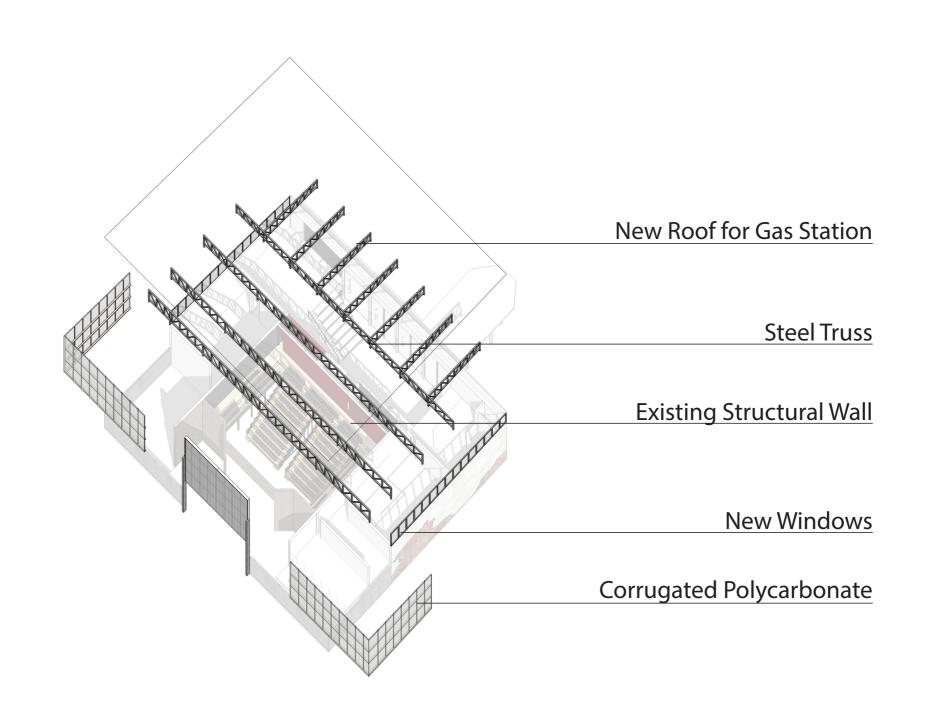
Workshop Spaces and Performer Room in Wings, Foyer as Performing Space



Transition Plan

Retractable Seats as Outdoor Installations to Claim Courtyard Space

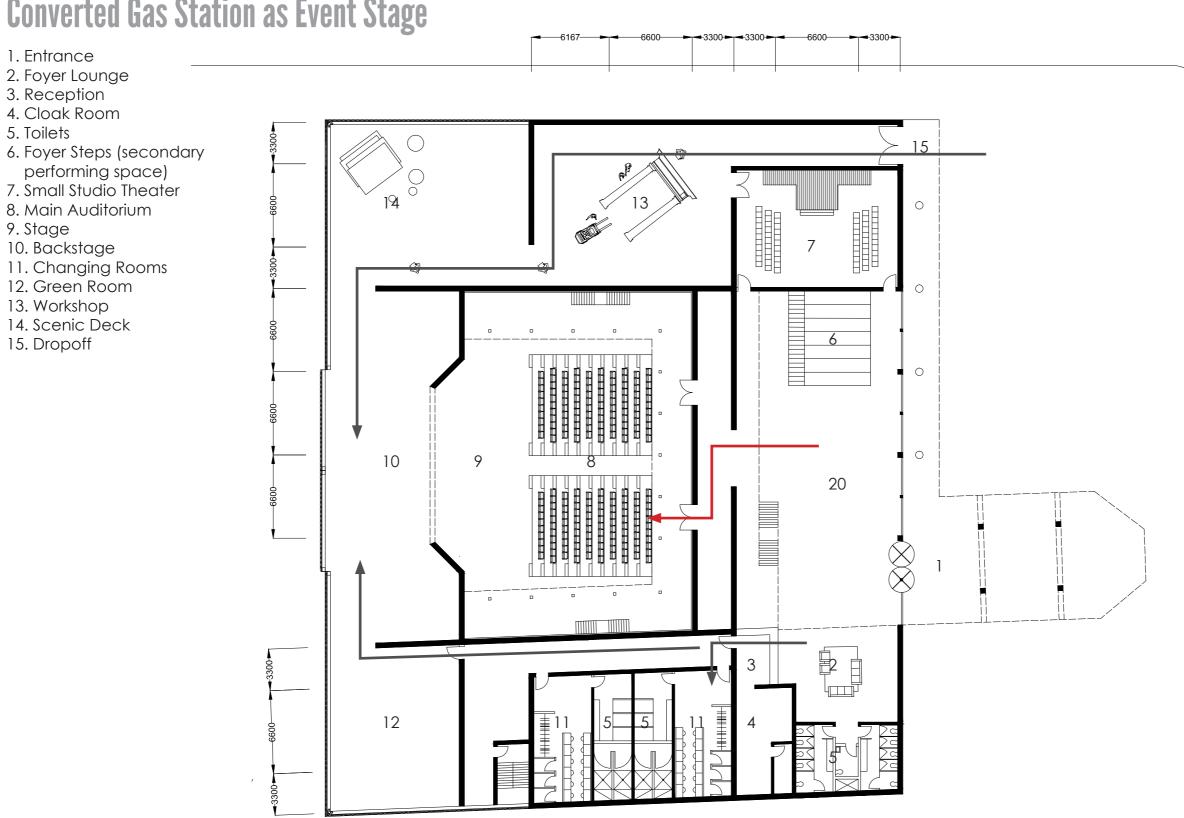






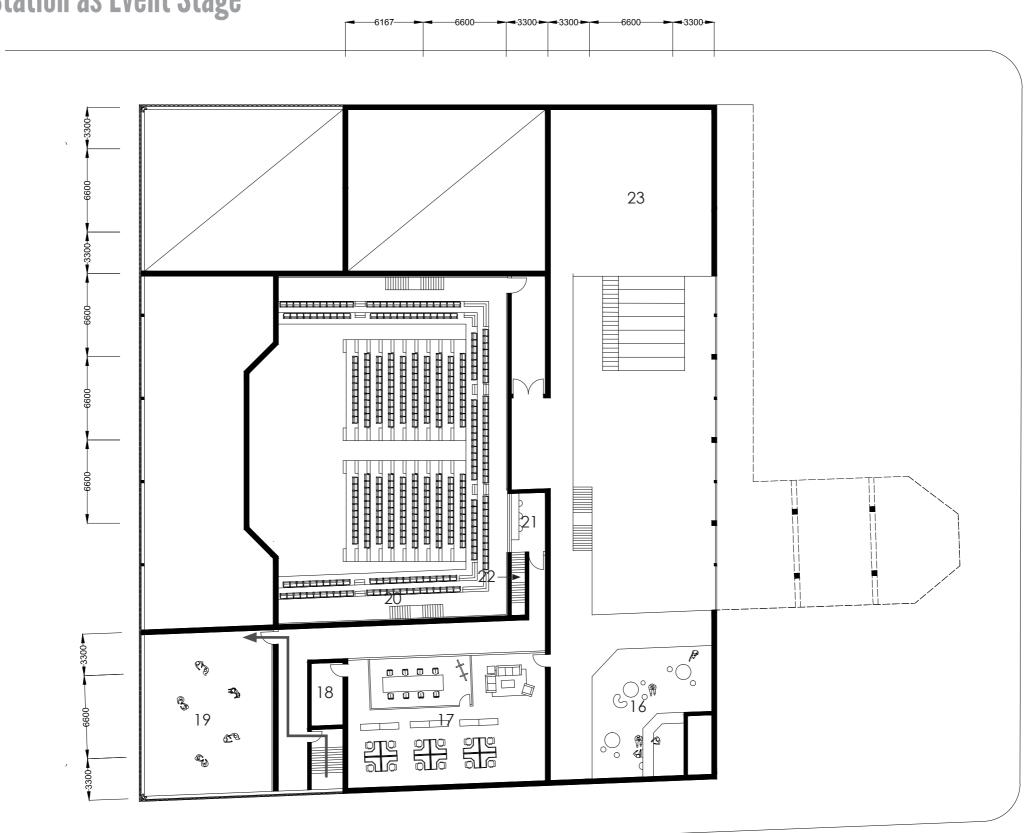


Extension Plan, Gf Converted Gas Station as Event Stage



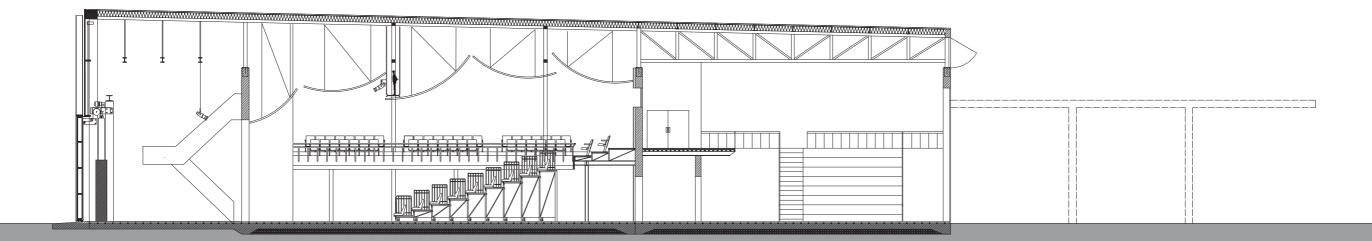
Extension Plan, 1f Converted Gas Station as Event Stage

- 16. Cafe
- 17. Offices
- 18. Toilets
- 19. Practice Room
- 20. Balcony
- 21. Control Room
- 22. To Catwalk
- 23. Exhibition





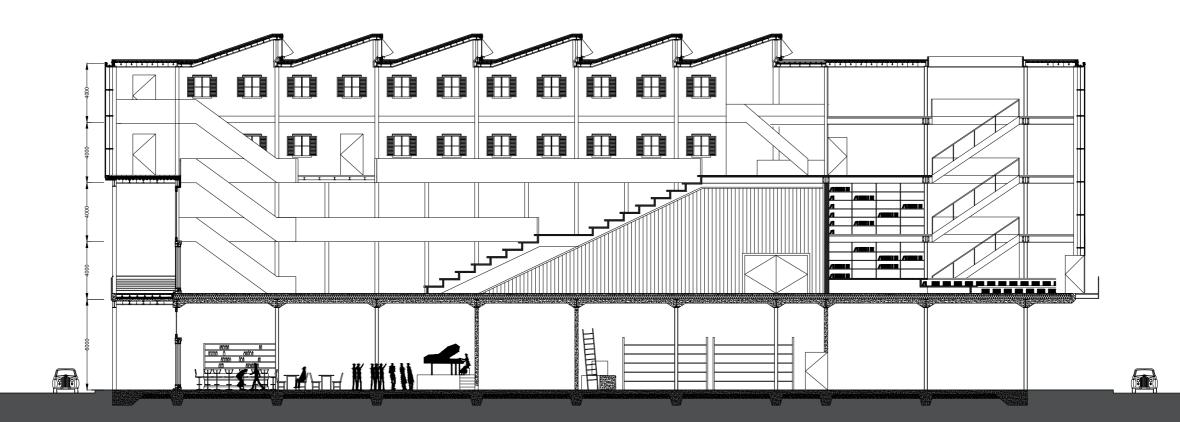




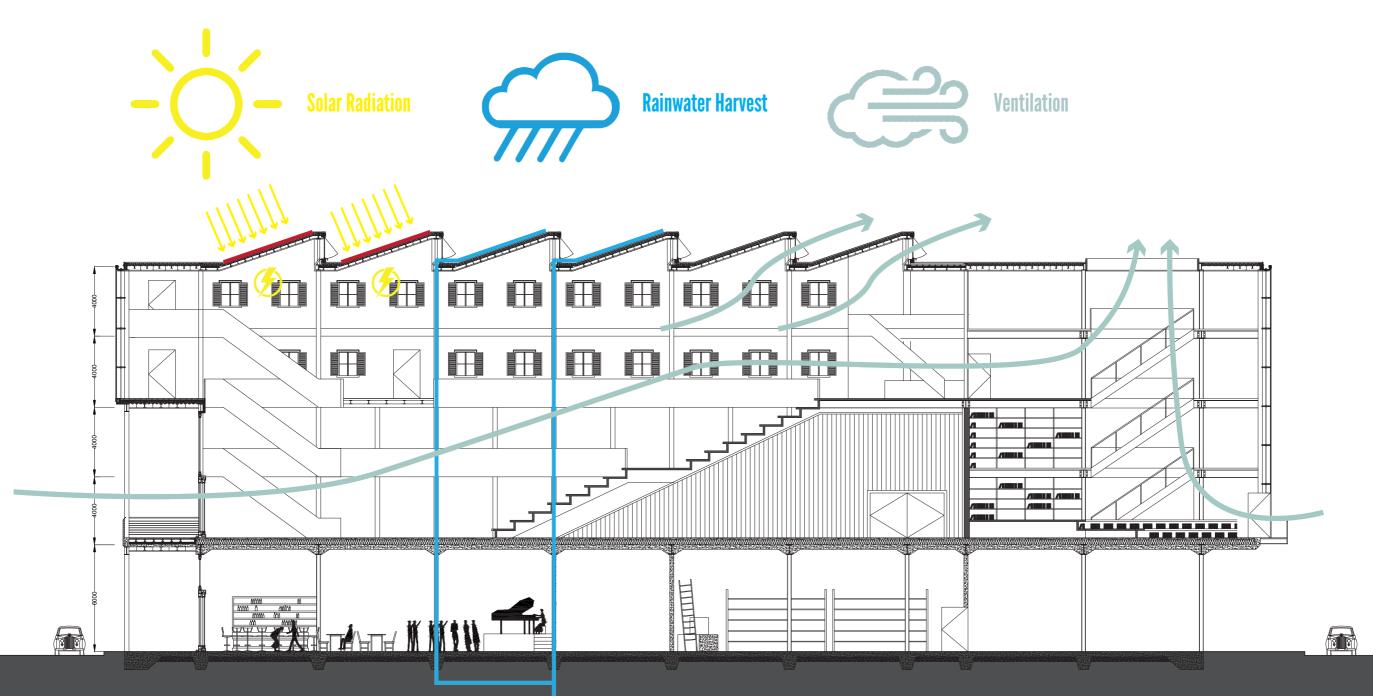
- -Spatial Arrangements
- Material & Performances
- Structural Composition

Materiality
East Facade



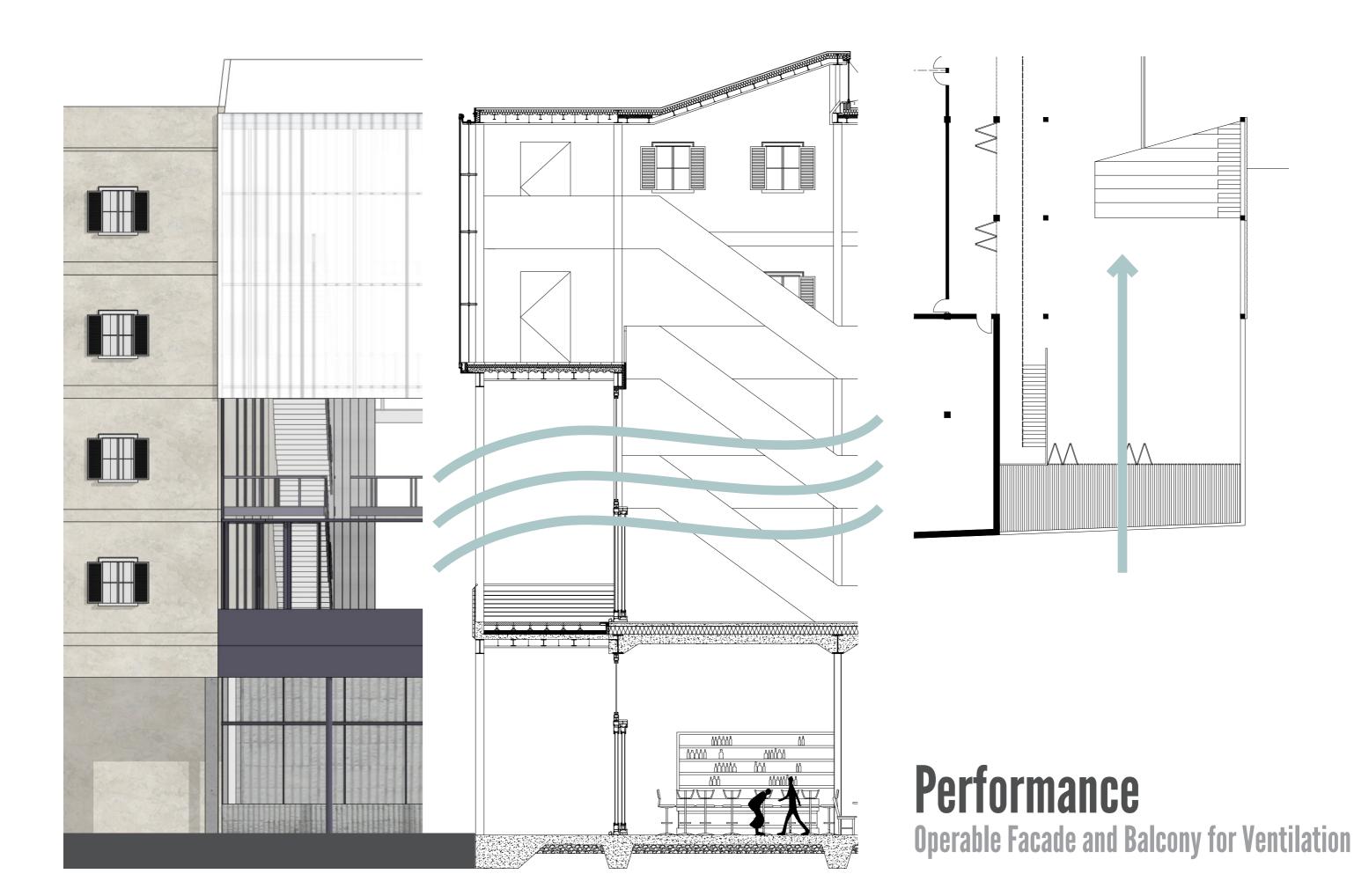


Improved Interior Micro Environment



Water Cycle for interior Temperature regulation, **Powered by Solar Energy** 1. Energy Gained from Solar Panels

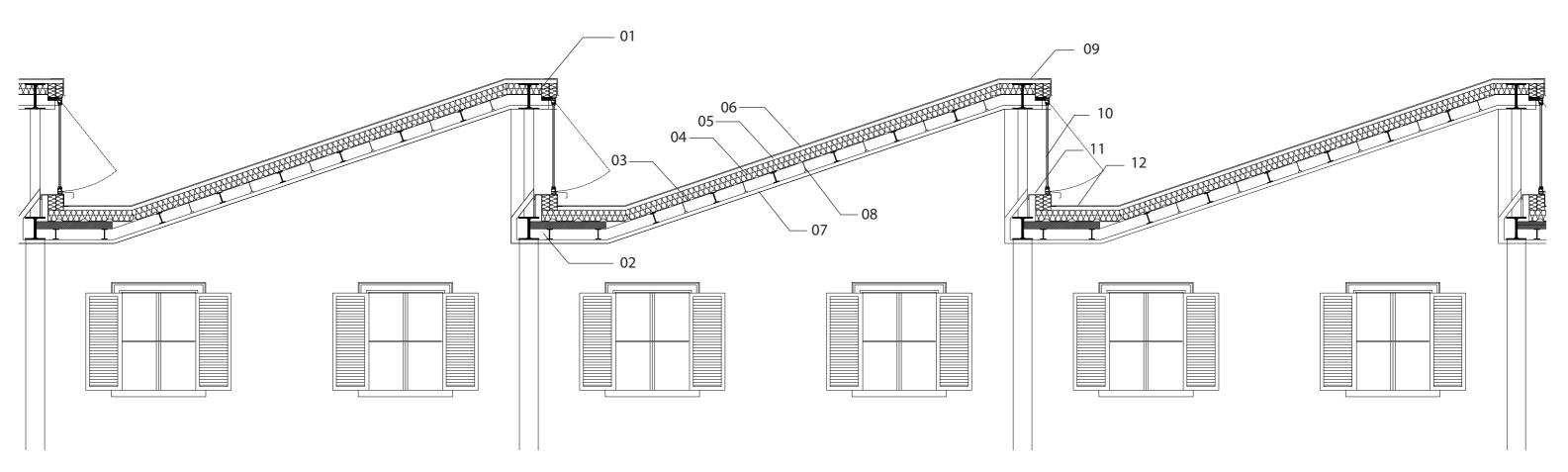
2. Energy Gained from Solar Panels used to pump water around existing building

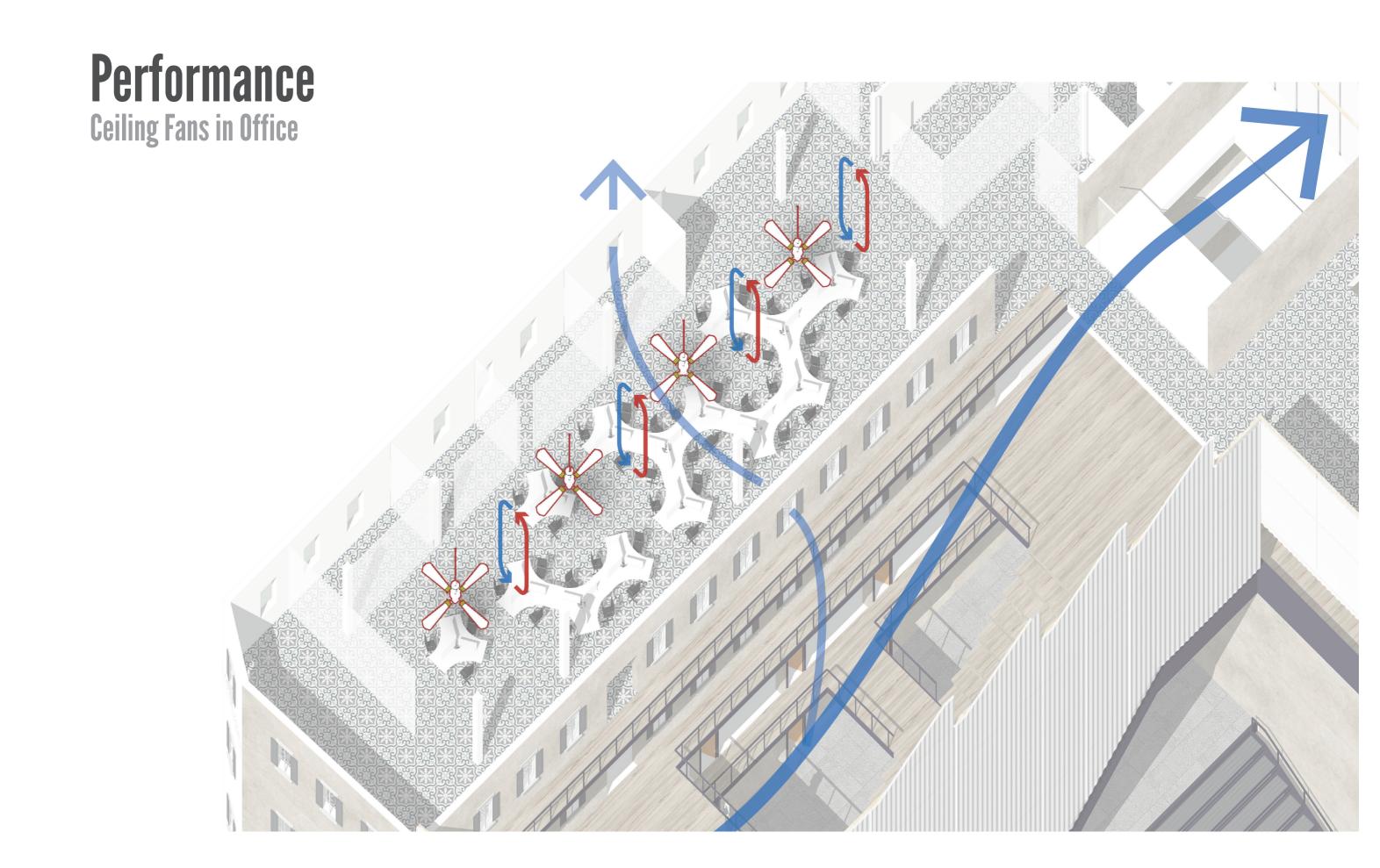




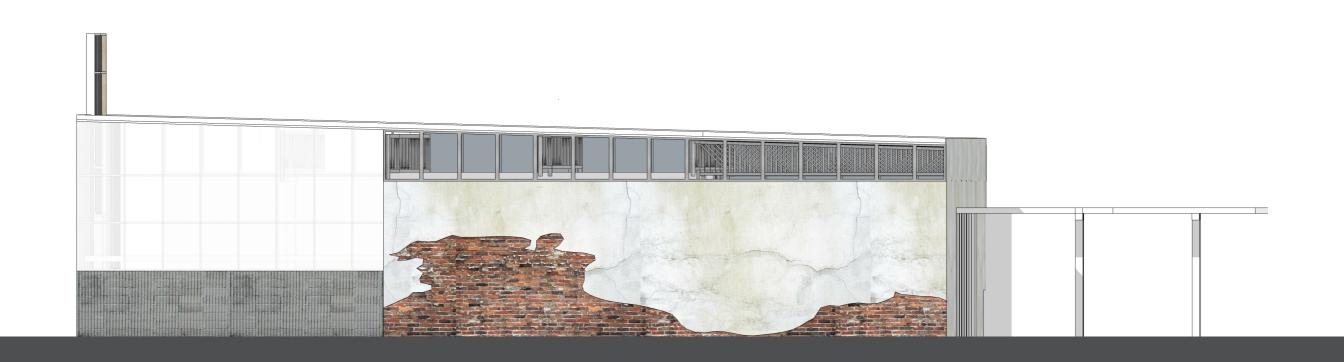
Saw-tooth roof, Indirect Solar Gain and Ventilation Chimney

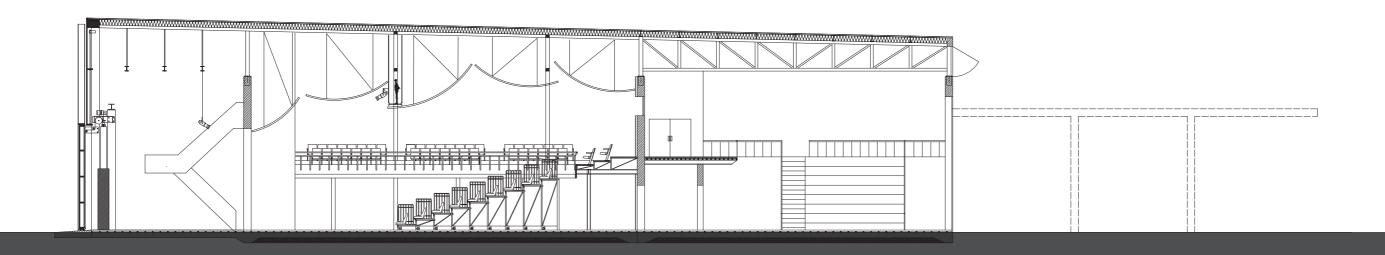
- 01 Steel Beam
- 02 Metal Purlin
- 03 Steel Tray
- 04 Photovoltic Membrane
- 05 Thermal Insulation 100mm
- 06 Thermal Insulation 60mm
- 07 Pine Battens 40mmx 20mm
- 08 Fixings
- 09 Possible Lighting
- 10 PVC White Roof Membrane
- 11 Glazing
- 12 Gutter



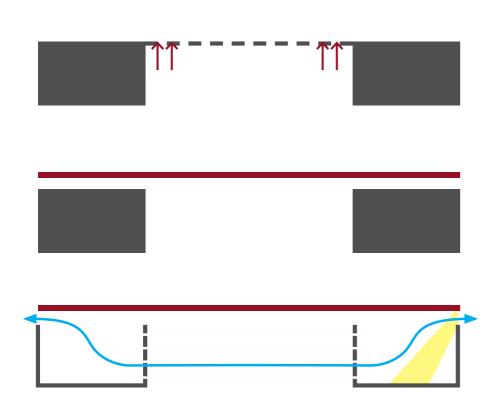


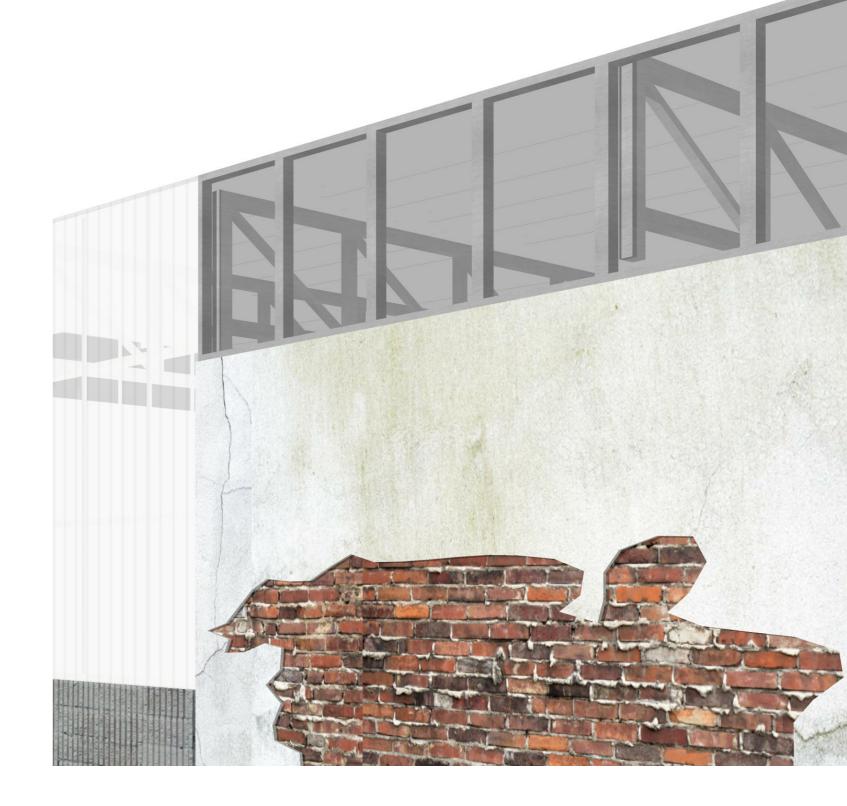
Materiality South Facade

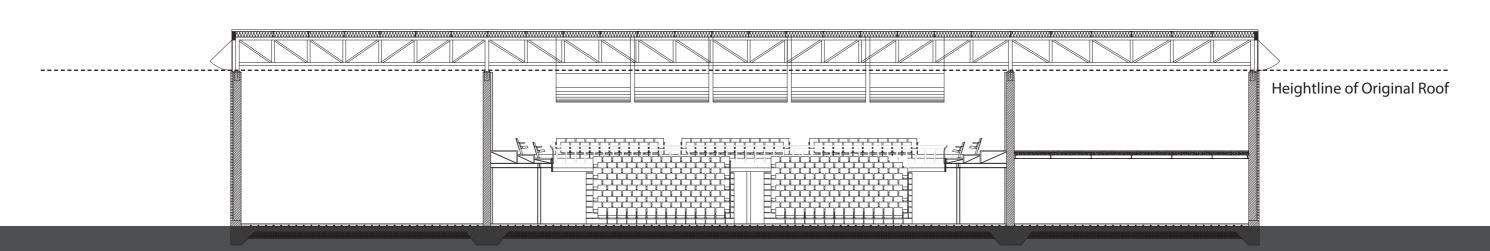




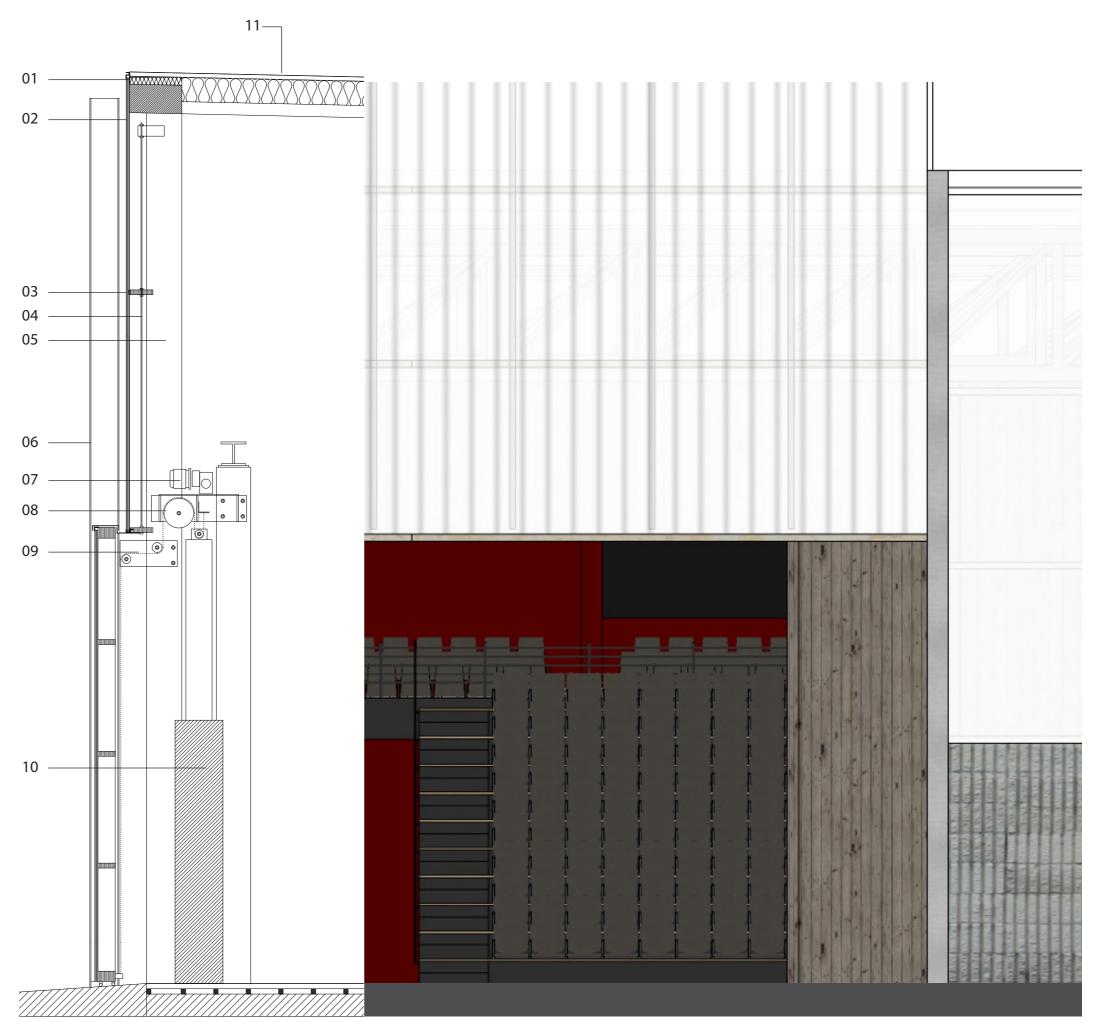
Elevated New Roof



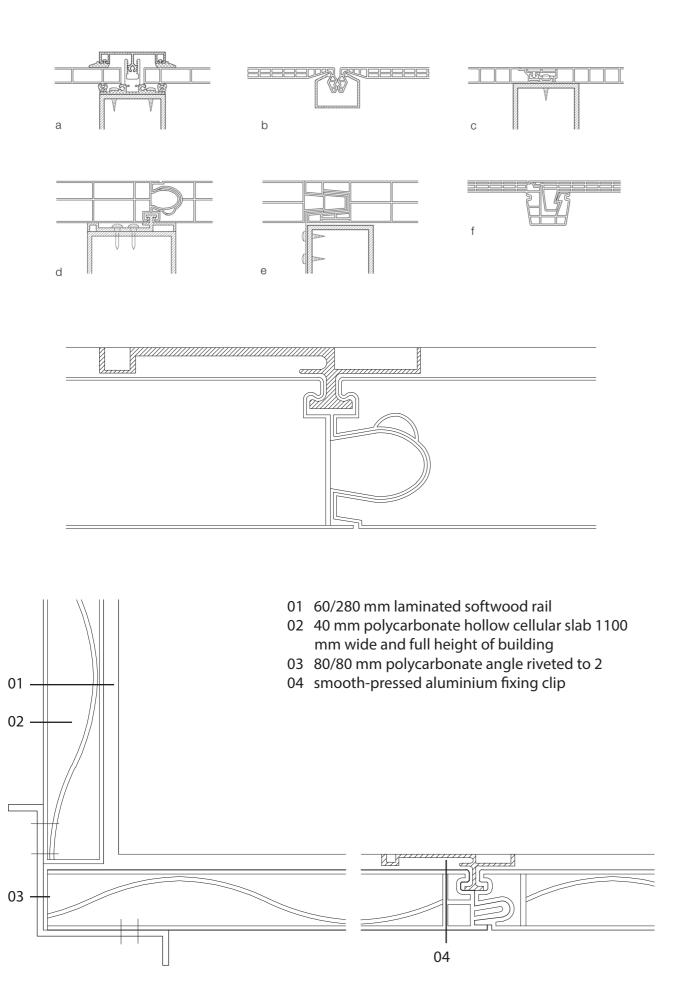


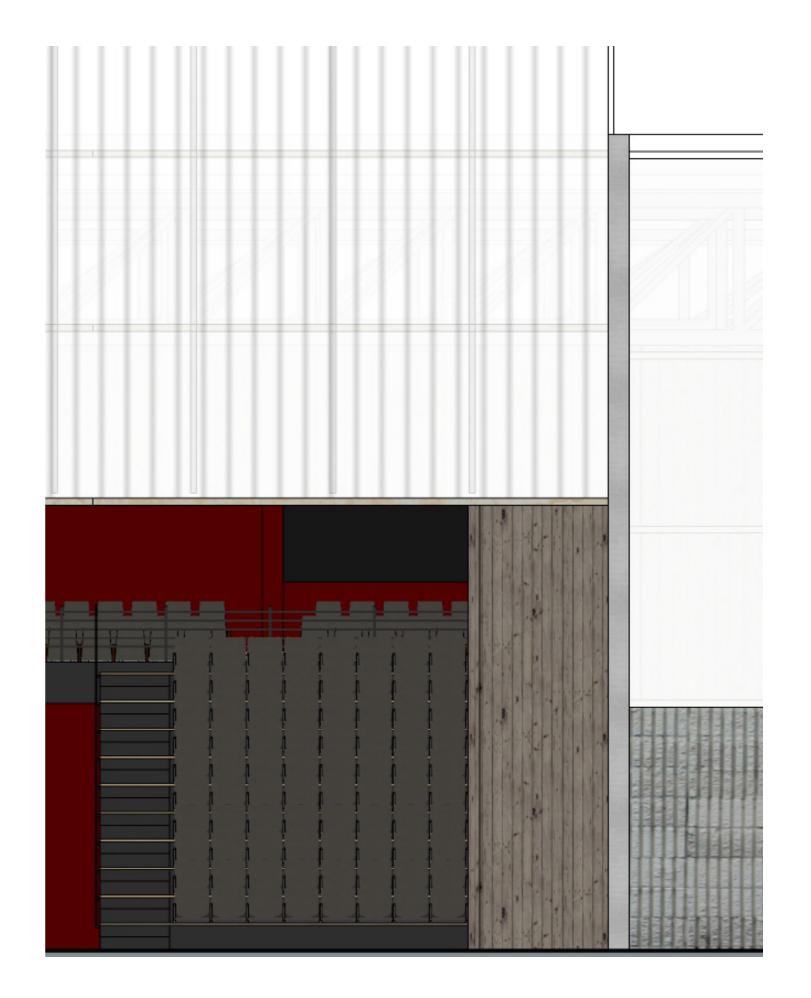


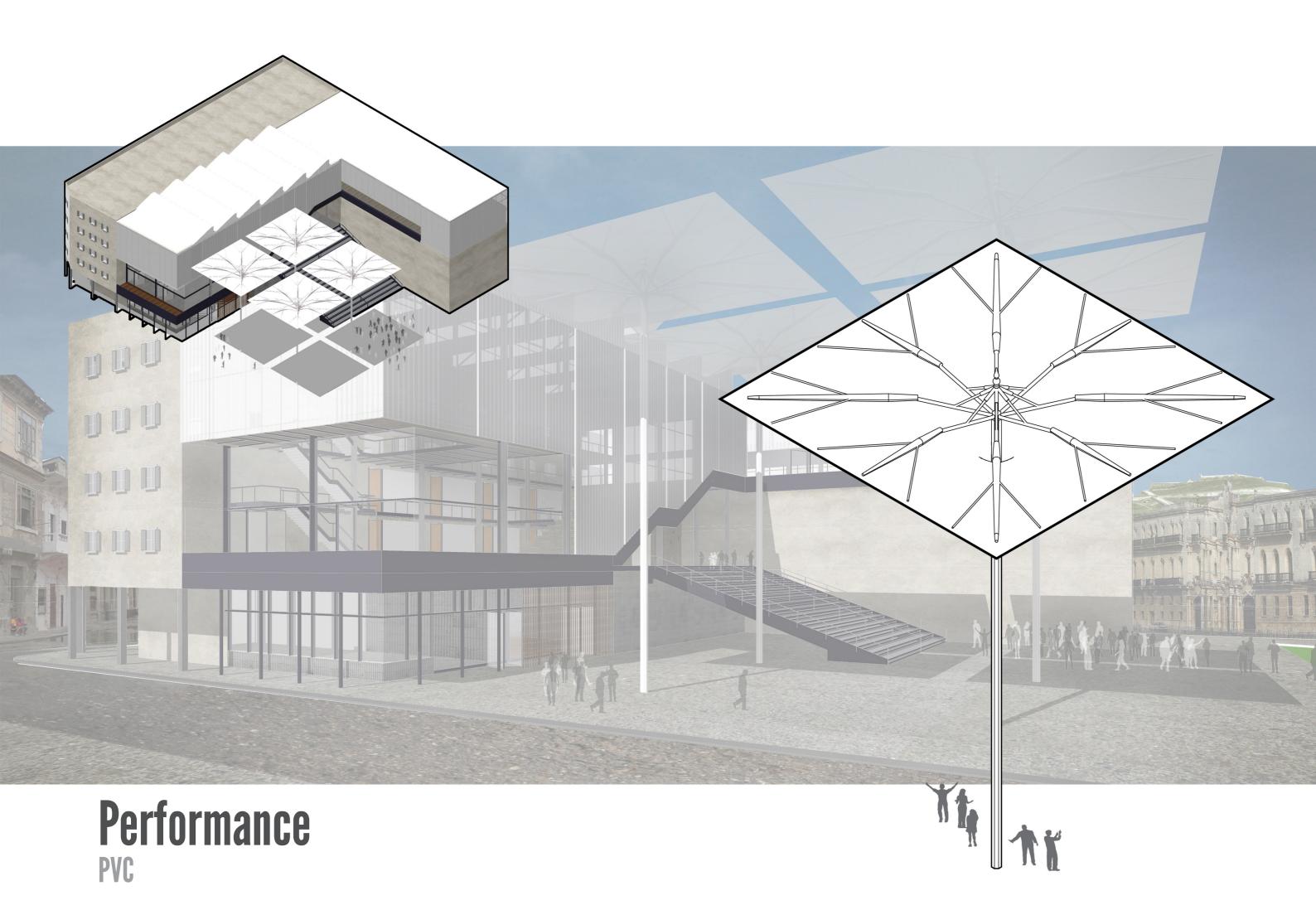


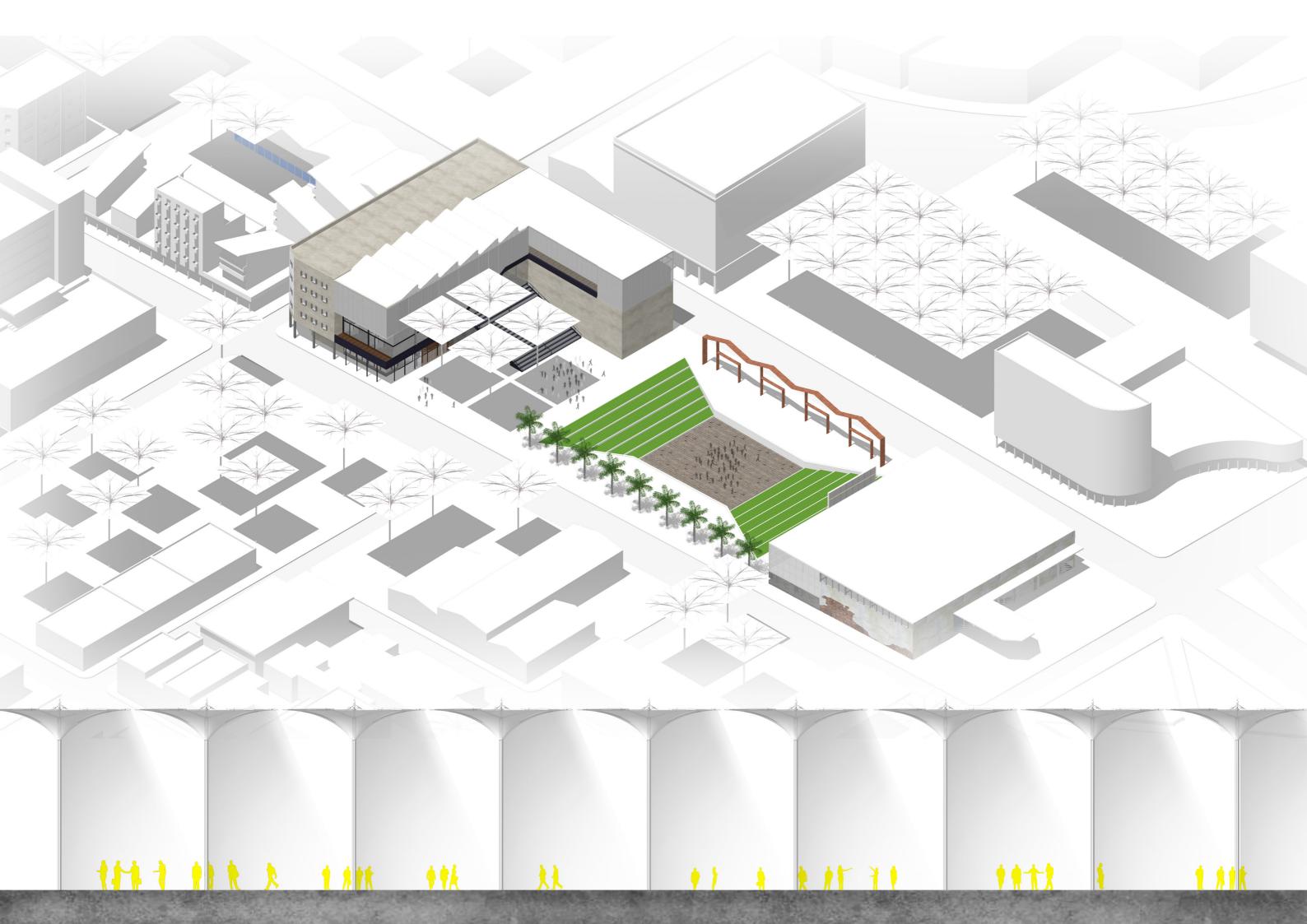


- 01 Sheet aluminium capping, bent to suit, 2mm, semi-machined finish
- 02 Polycarbonate multiple-websheets, 40x500mm U-value= 1.65 W/m²K
- 03 Glulam rail, spruce, 60x280mm
- 04 Round steel bar, 12mm dia
- 05 Steel Column
- 06 Steel Section/Track
- 07 Motor for vertical lift door
- 08 Door Driveshaft
- 09 Door Drivegear
- 10 Counter-weight
- 11 PVC White Roof Membrane



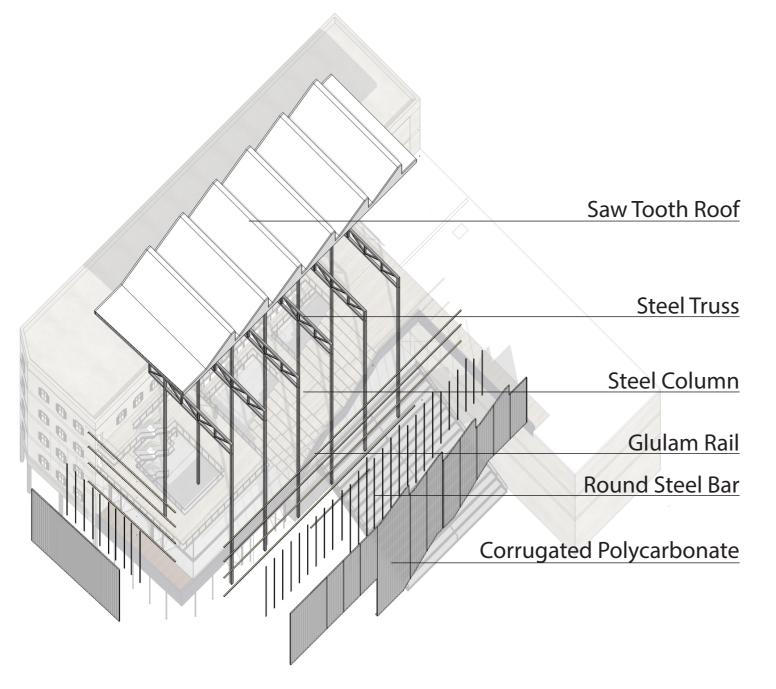


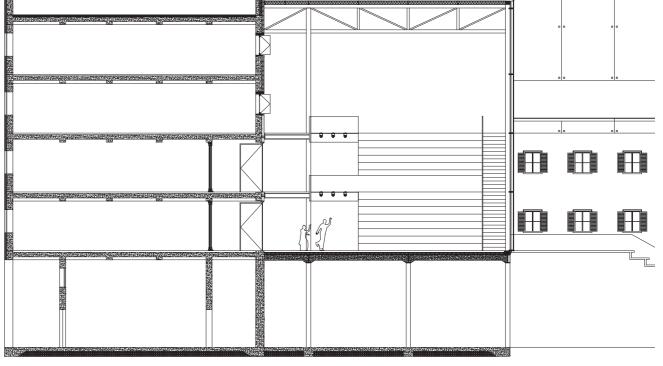




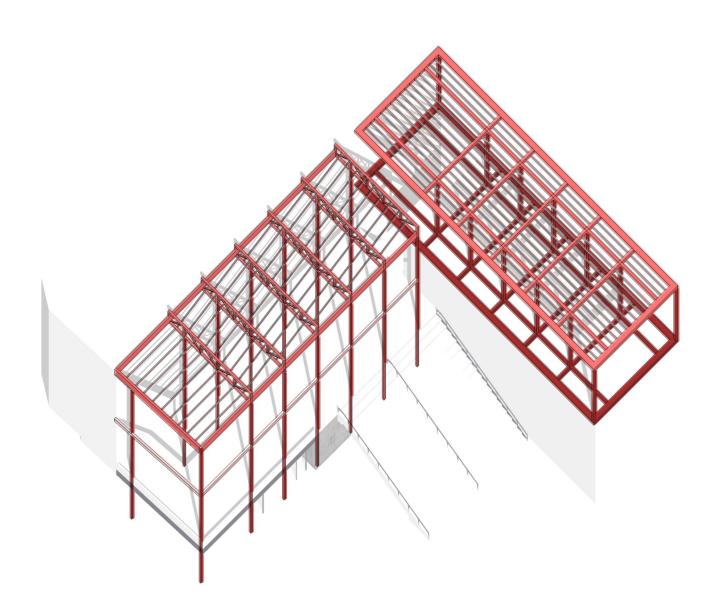
- -Spatial Arrangements
- Material & Performances
- Structural Composition

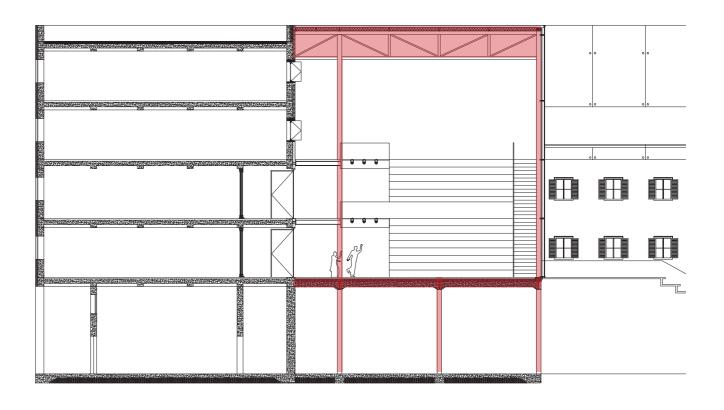
Structural Composition Cultural Institute



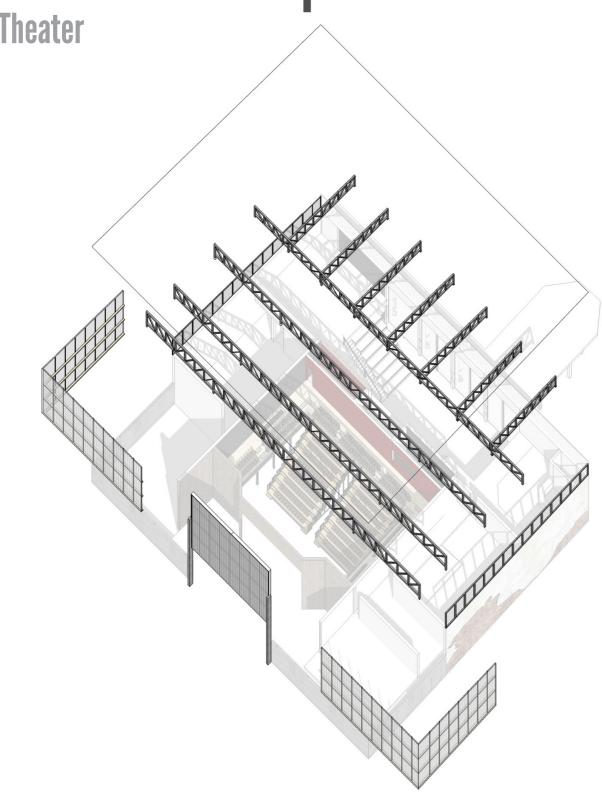


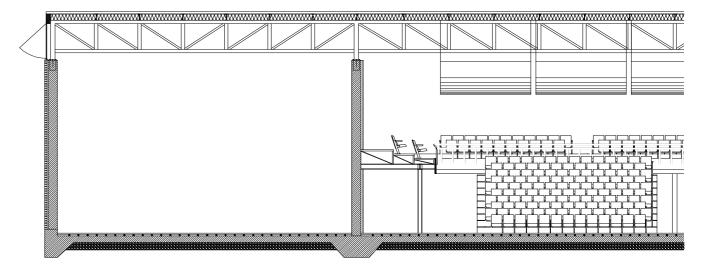
Structural Composition



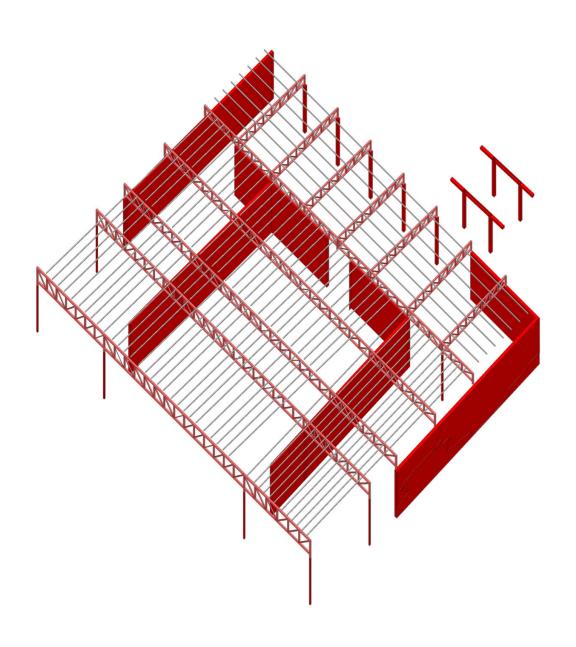


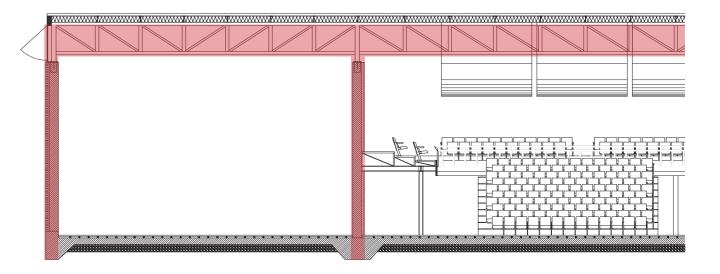
Structural Composition
Theater





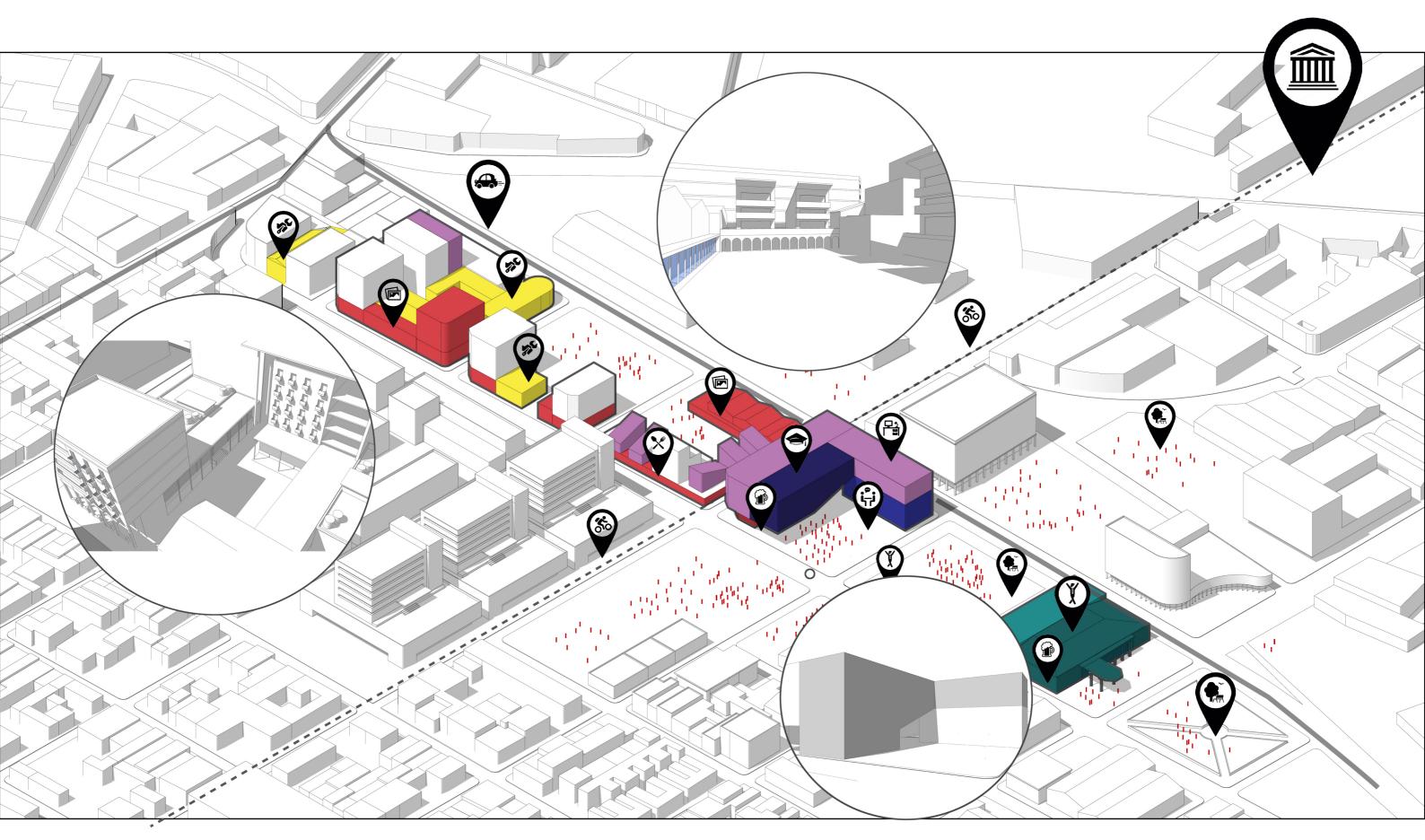
Structural Composition



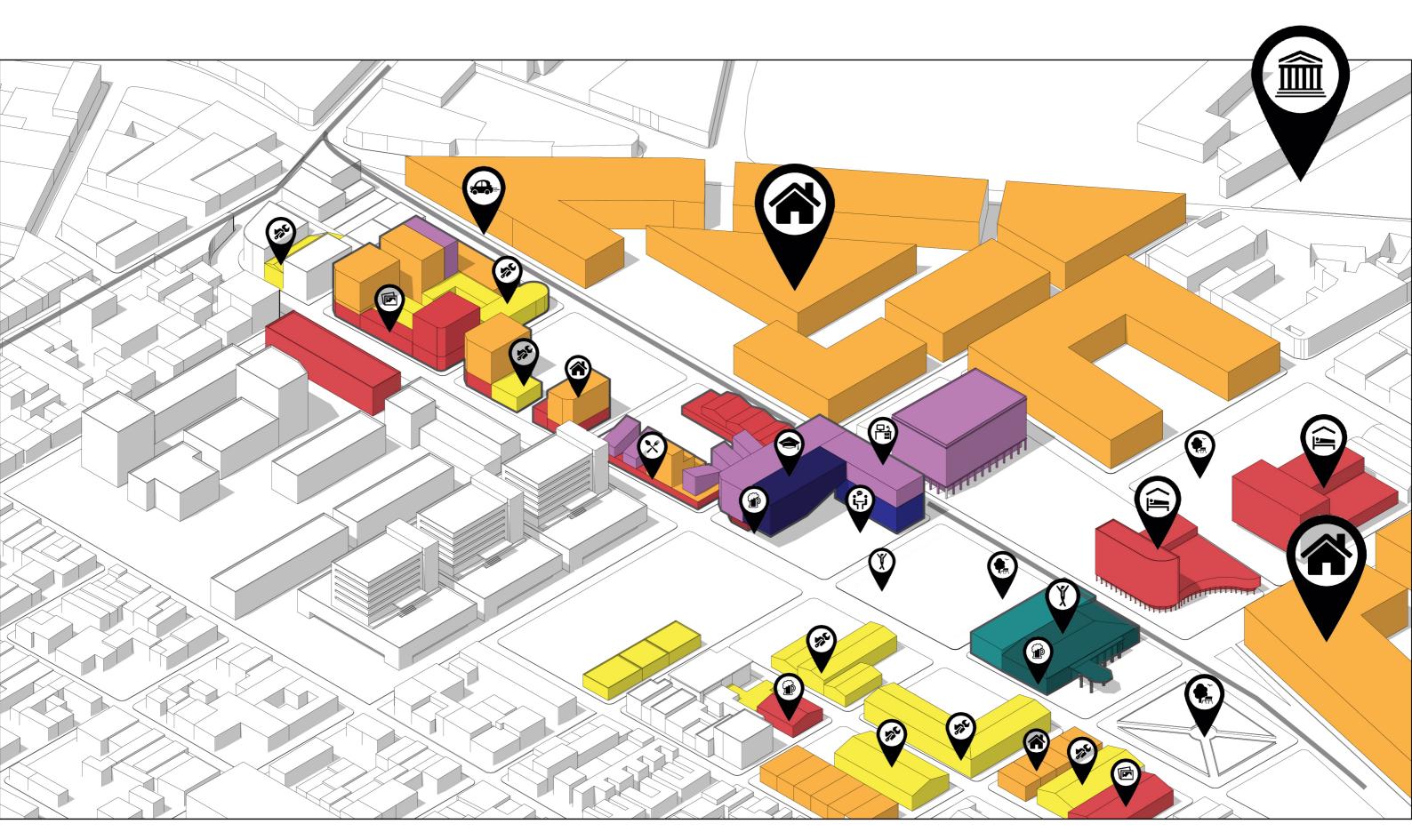


Future Implication

How Expansion of Cultural District influences Havana's Urban development Process



in 20 Years, When Cultural District achieved a balance between Practical Space, Event Stage and Local Business.



in 50 Years, When Expansion of Cultural District Coincides with Bay Masterplan Development

