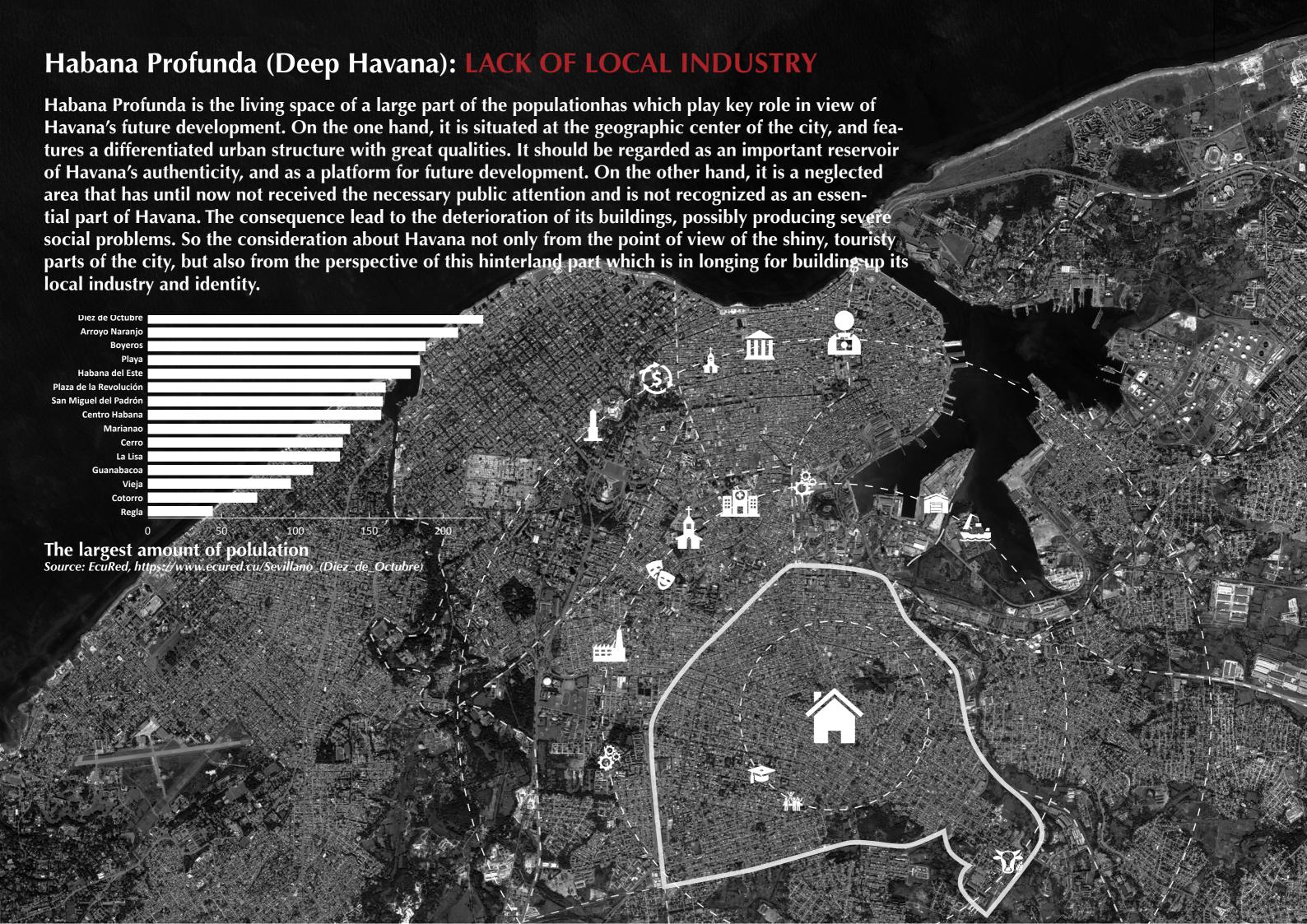
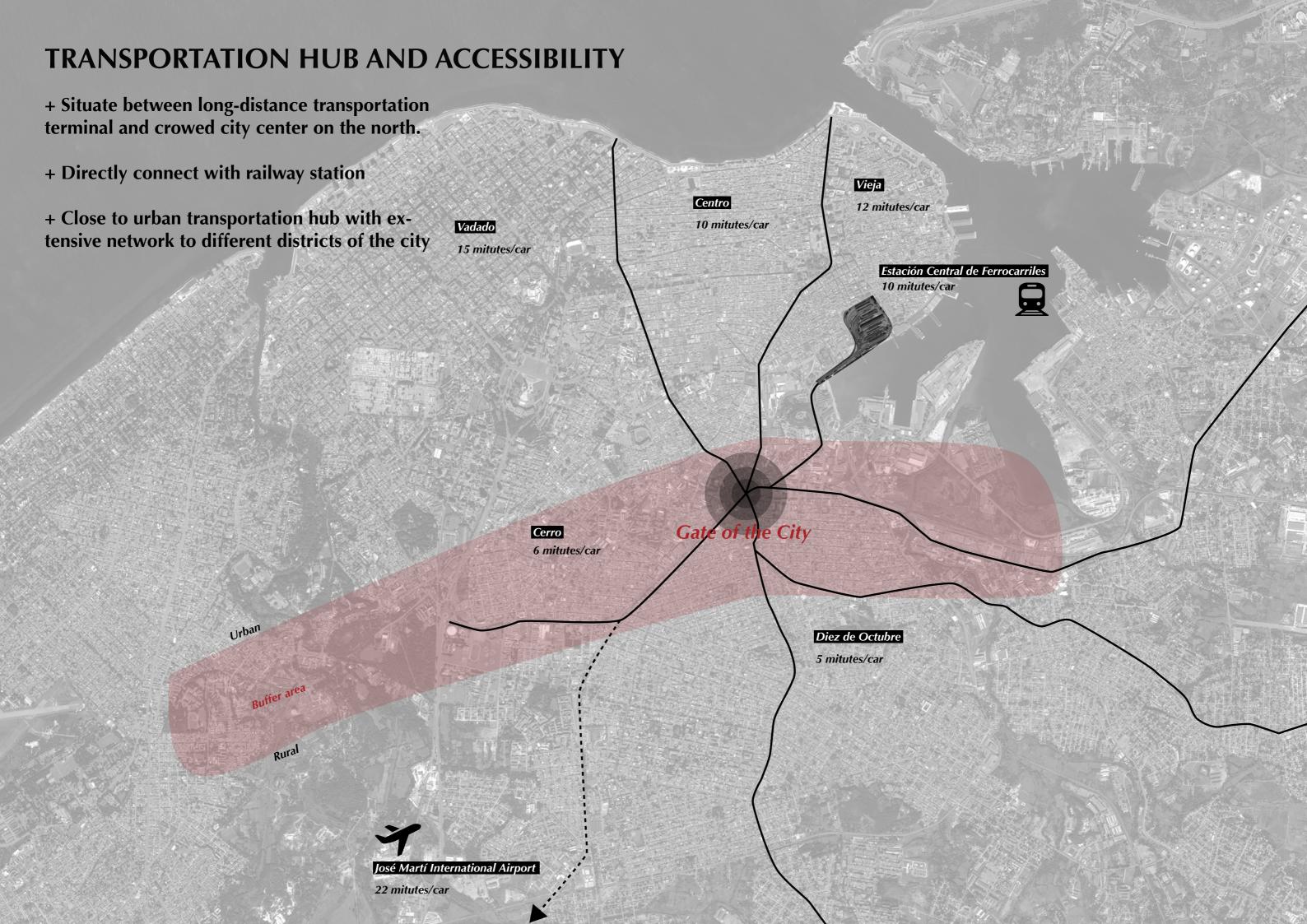


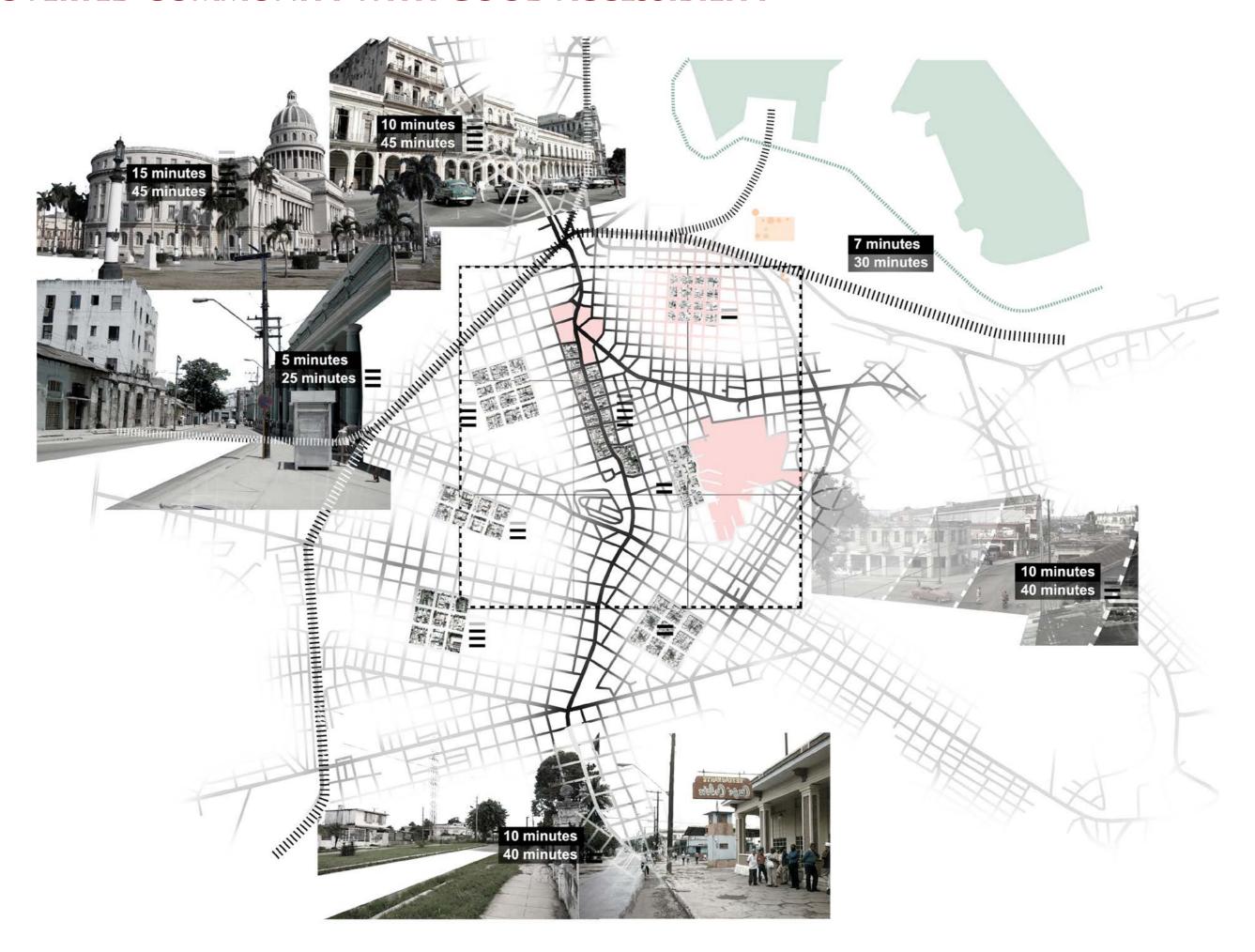
PART 1: RESEARCH INTRODUCTION

PART 2: SITE SELECTION
PART 3: ARCHITECTURE DESIGN
PART 4: SUSTAINABILITY

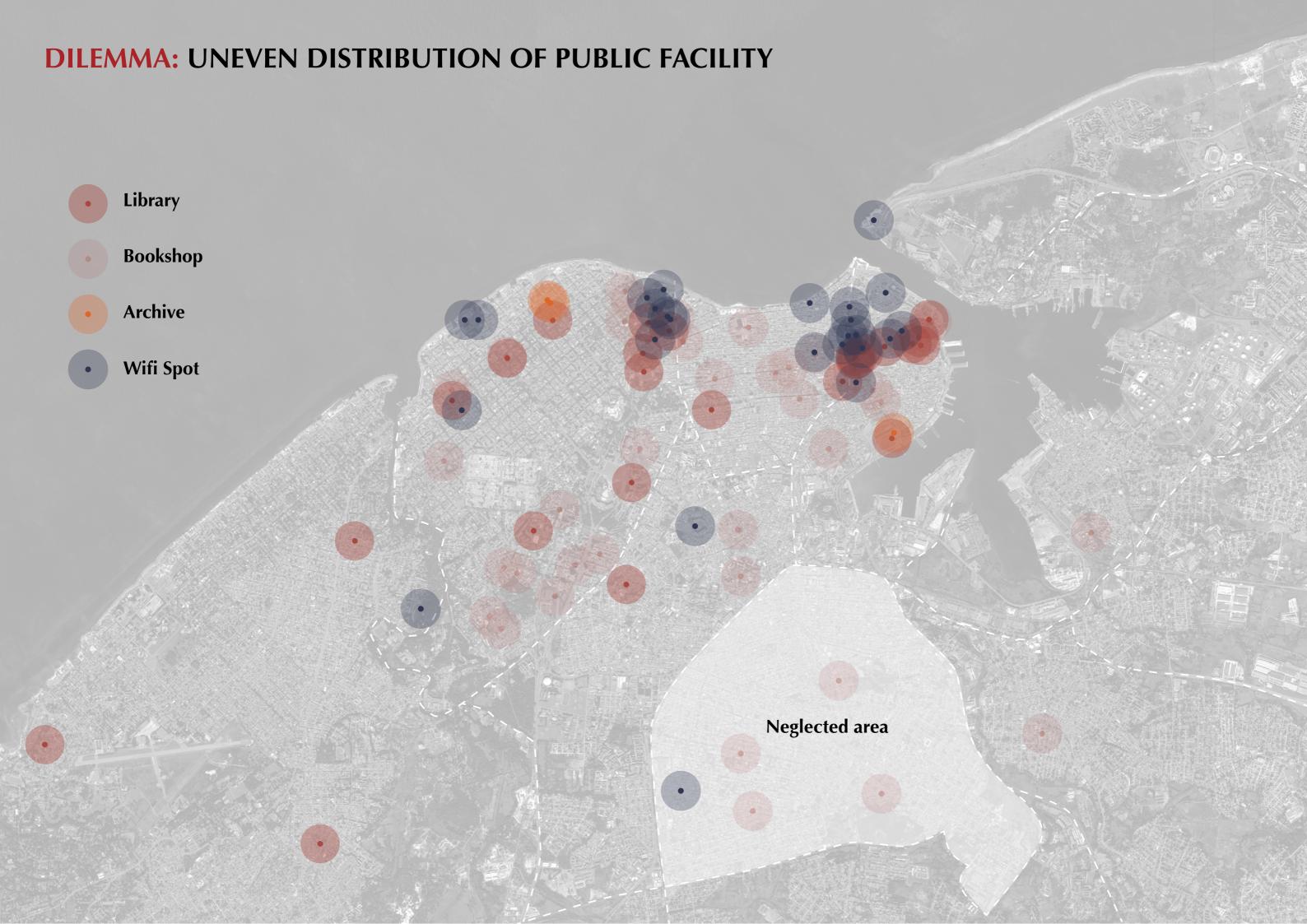


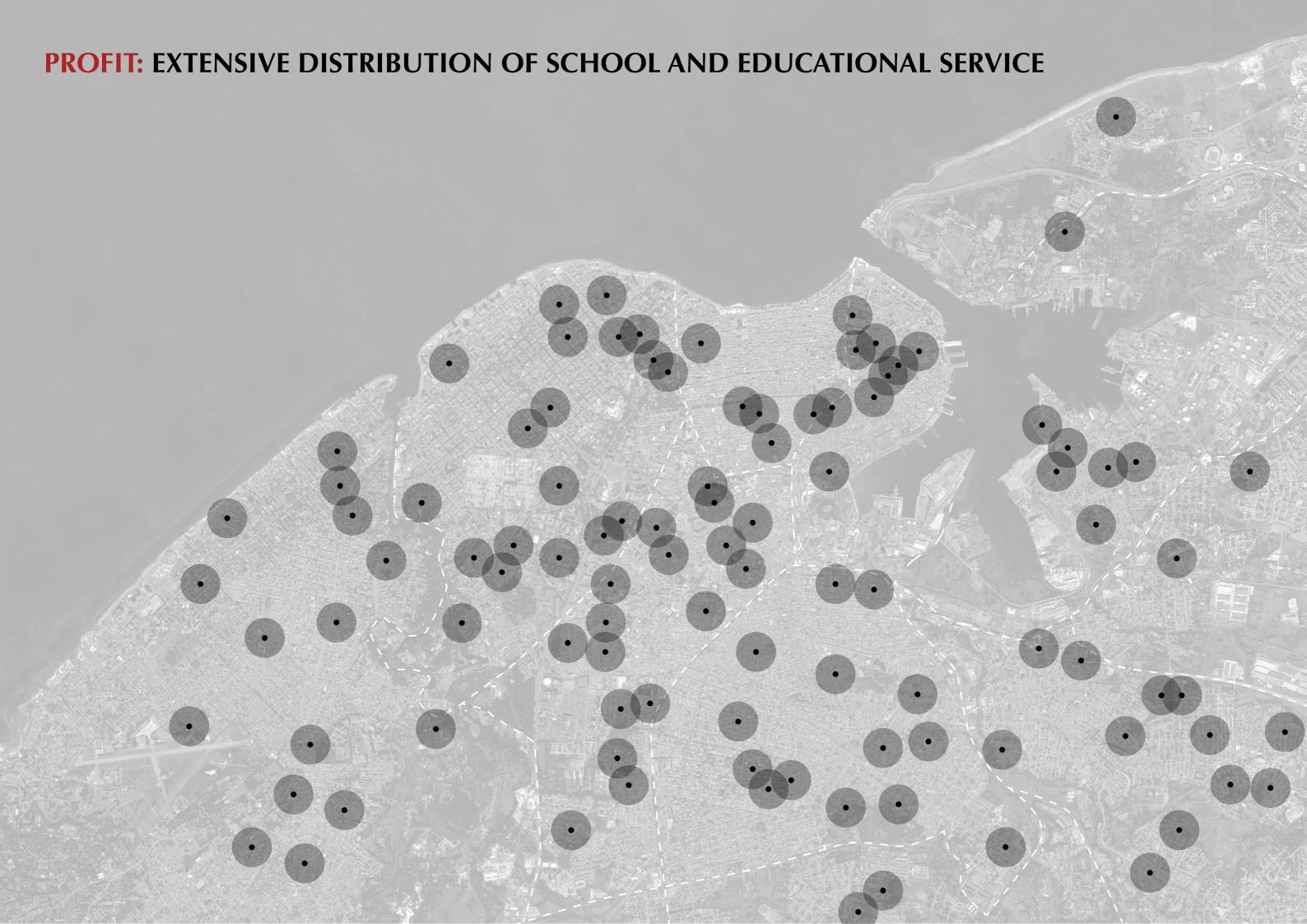


INTROVERTED COMMUNITY WITH GOOD ACCESSIBILITY









1959

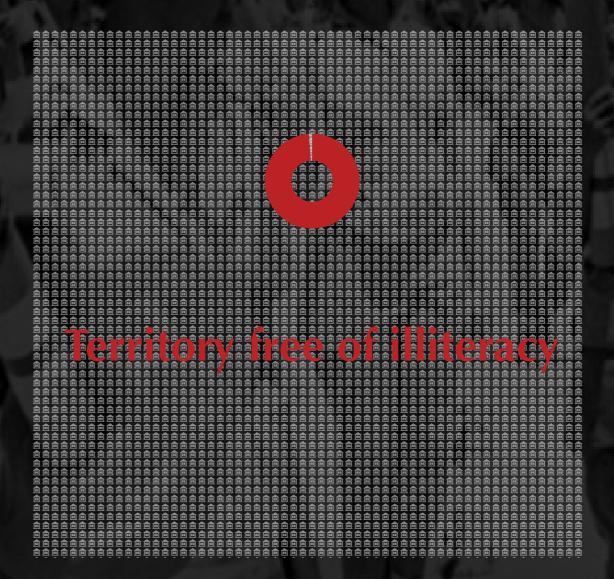
32 Public Libraries



30% literacy rate

413 Public Libraries & 6000 School Libraries

1961





A SCARCITY OF INFORMATION

United States



Literacy Rate: 99% Polulation: 309,349,689

Book Publication: 2,700,000,000



Mobile phones coverage:



Internet coverage: 81%



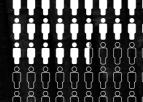
Cuba



Literacy Rate: 99.8%
Polulation: 11.239.004

Book Publication: 25,000,000 (2/3 are textbooks)





Mobile phones coverage: 14.9%

Internet coverage: 25.6%

Source: Report from UNESCO 2015

Unit sales of the U.S. book market from 2010 to 2015 (in billions)

https://www.statista.com/statistics/240088/total-book-sales-of-the-us-book-market-by-quantity/

Book is a rare item in Cuba

Table 6.3: Cuban imports of manufactured products from the United States, 2

vaccines	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
products Medical instruments Donated articles	0.4 6.0	0.7	0.4 4.5	0.2 5.4	(°)	0.0 3.4	(a) 3.5	0.0 7.1	0.9	0.1 6.6	4.4
Blood products and	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Heavy, self-propelled construction equipment	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Certain medicaments	0.0	0.0	0.0	0.0	0.0	(*)	0.1	0.2	0.2	(*)	0.1
Orthopedic appliances	0.0	0.1	0.1	0.2	(*)	0.0	0.0	0.0	0.5	0.5	0.1
Certain diagnostic or laboratory reagents	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	(*)	0.1	(*)
Instruments/ apparatus for physical or chemical analysis; parts	0.0	0.0	0.0	0.0	0.0	(*)	0.0	0.0	(*)	0.0	(*)
Computers and related hardware	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	0.0	0.0	(*)
Instruments/ apparatus for measuring liquids or gases; parts	0.0	(*)	0.0	0.0	(*)	(*)	0.0	0.0	0.0	0.0	(*)
Motor vehicle parts	0.0	0.0	0.0	0.0	0.0	(*)	(*)	(*)	0.0	0.0	(*)
Certain liquid crystal devices, lasers and optical appliances/ instruments; parts	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)
All other	7.1	4.8	2.4	4.8	0.6	0.6	1.3	1.0	4.4	0.3	(*)
Total	16.8	10.4	7.6	10.5	8.3	14.3	10.7	8.3	11.9	14.1	31.8

Source: GTIS, Global Trade Atlas database (accessed December 29, 2015); USITC DataWeb/USDOC (accessed February 8, 2016). Note: The categories listed are at the HS-4 level.

Because of embargo, Cuba only received a little amount of printed products in recent years.

The amount of domestic publication is 25 million per year and more than two third of these are textbooks. It means that only 7 million can be received by the 11 million polulation.

Less than \$50,000.









Informal way for obraining information

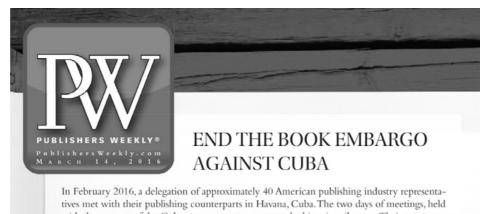


Source: In Cuba, Will the Revolution Be Digitized? Sujatha Fernandes

Something is changing...



MORE PRESS FREEDOM FROM GOVERNMENT



In February 2016, a delegation of approximately 40 American publishing industry representatives met with their publishing counterparts in Havana, Cuba. The two days of meetings, held with the support of the Cuban government, represented a historic milestone. Their purpose was to build bridges of understanding and explore opportunities for greater cultural and economic collaboration.

The American delegates included authors, publishers, distributors, literary agents, service providers, consultants, and independent booksellers. Cuba was represented by officials from the Cuban Book Institute, the Ministry of Culture, and the Cuban Writers Association, as well as by Cuban authors, publishers, academics, and students.

The undersigned companies and individuals—drawn from the American delegation as well as other leading U.S. publishing industry participants—hereby call upon the U.S. Congress and President Obama to lift the economic embargo against Cuba as it pertains to books and educational materials. This call is consistent with the will of the American people, who, according to 2015 Gallup and Pew polls, overwhelmingly support the elimination of the U.S. trade embargo against Cuba.

Our position

- *We ask Congress and the president to lift the U.S. trade embargo against Cuba related to the production, distribution, and sale of books and educational materials.
- * The U.S. trade embargo is harmful to book culture and runs counter to American ideals of free expression.
- * Books are catalysts for greater cross-cultural understanding, economic development.

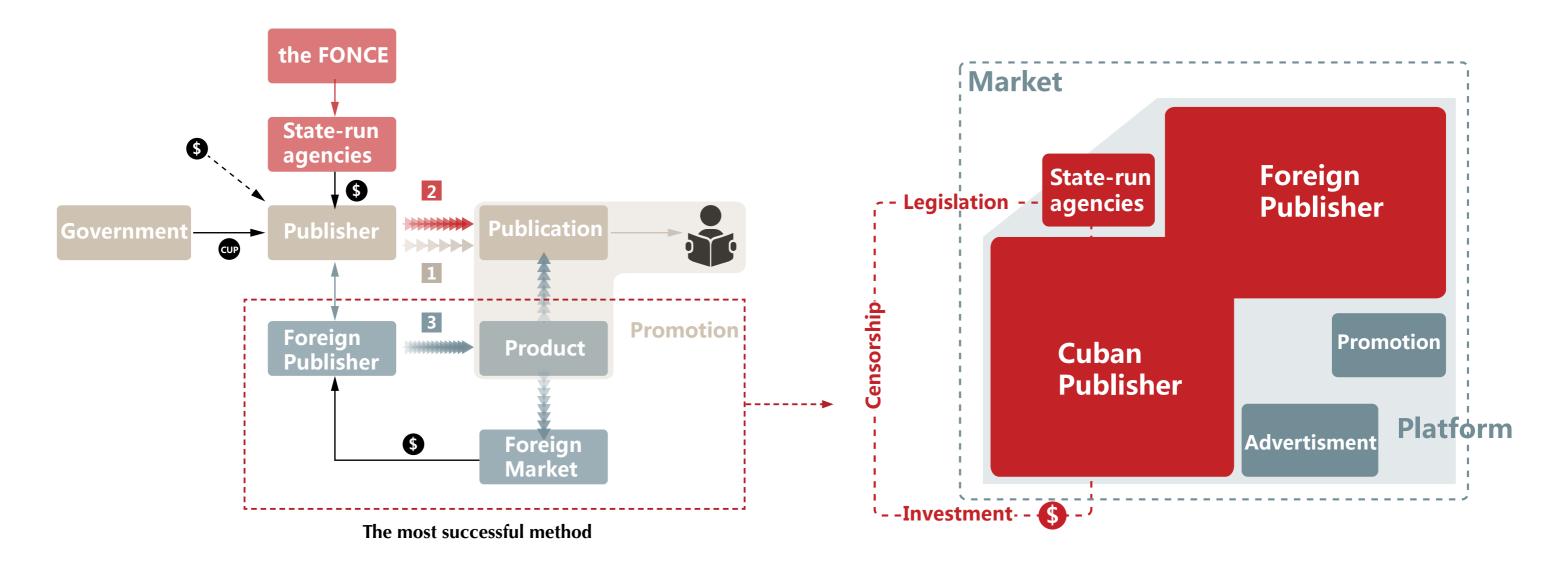
INVESTMENT FROM ABROAD



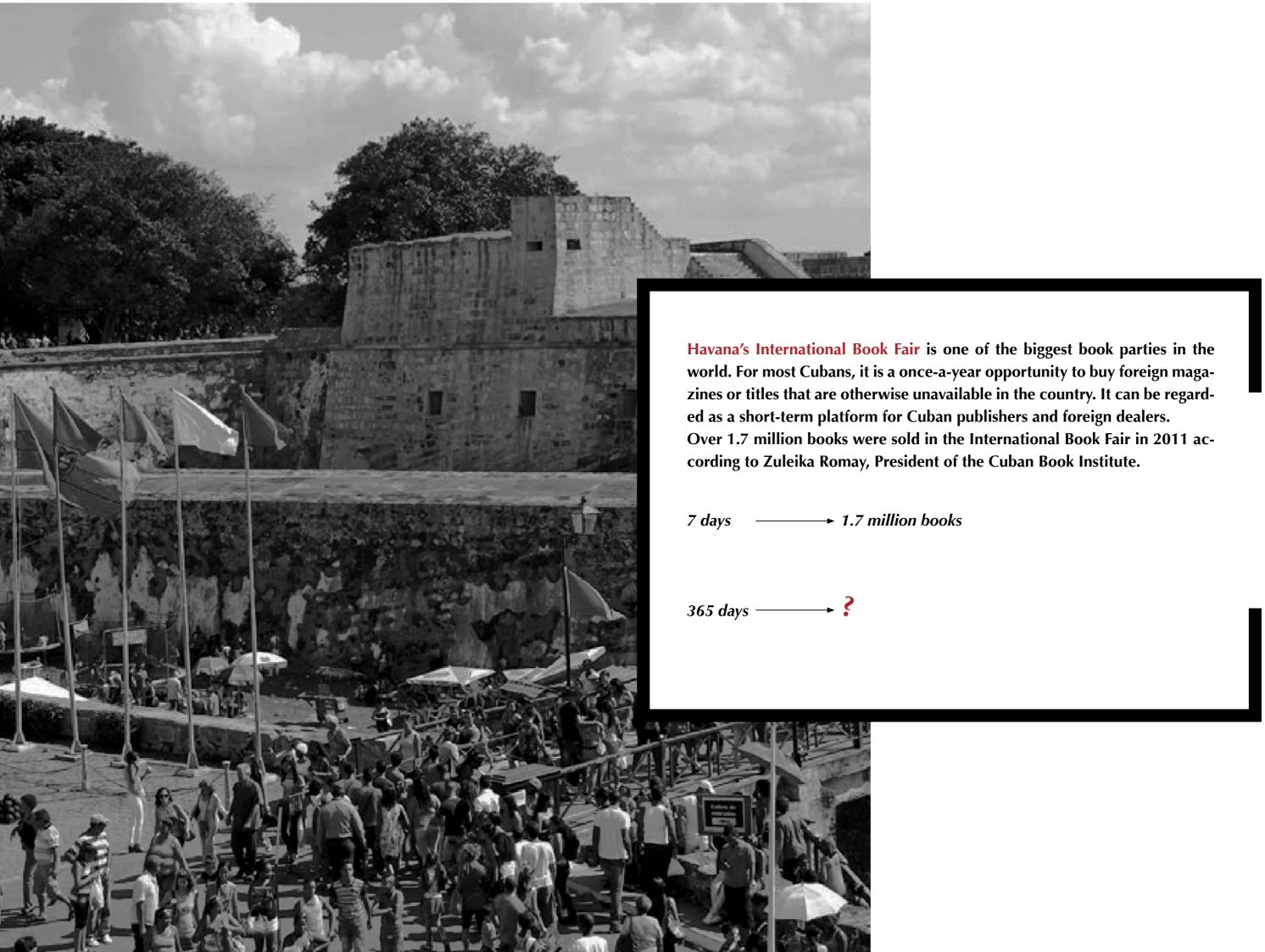
CUBAN PUBLISHERS EAGER TO EMBRACE EBOOKS



Funding Strategy: A Long-term Cooporation Platform



There are now three main ways for funding the productions of publication industry. The most successful way in which Cuban publishers are now working is in co-production with foreign publishers. Since the economy has been stuck since 1996, there is a sign that the government will have to liberalise further and bring in more economic reforms. More and more foreign companies are looking forward to invest in Cuba. At the moment the publishers are looking for a trategy for funding their producction in new context. One possible answer is for Cuban publishers to enter into more long-term partnerships with foreign publishers rather than looking from project to project. It might be the right time for a major foreign publisher to invest in modern printing technology in Cuba itself. A more dynamic stage should be established for better promotion and advertisement.



Location of Havana International Book Fair



CONCLUSION

Modern Library

Public Forum

Open Trading Platform



Outdated information resource and facility can no longer meet people's demands and fail in providing them enough advanced knowledge.



The shortage of the state's policy on publication is obvious. Publishers are isolated with the market and lack of direct contact with their consumers.



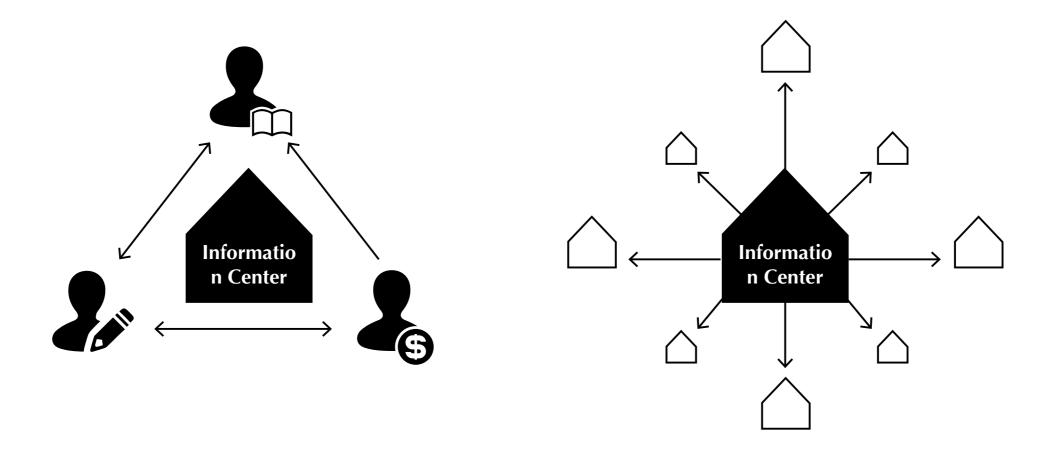
The organization of funding and cooporation system is unefficient now. There is an absent of an open platform which can build up the direct communication between cuban publishers and foreign investors in order to search a longterm partnership and carry promotion activities.

Information

Communication

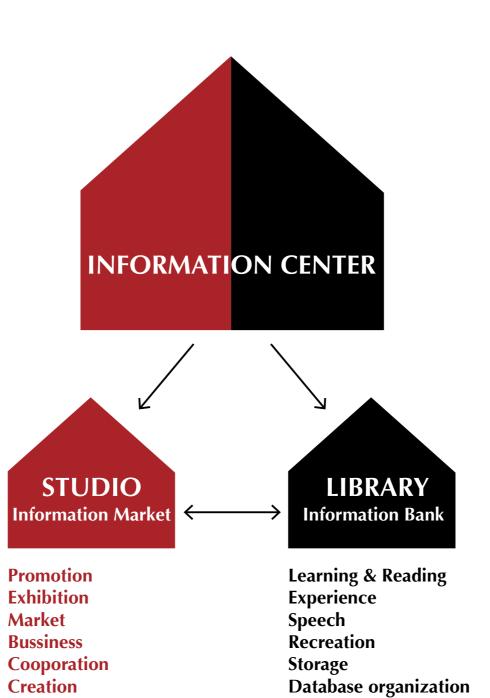
Profit

STRATEGY: PROBLEM STATEMENT



How to build up an information platform which can involve various participants to revitalize the information industry and enhance the information accessibility among the community.

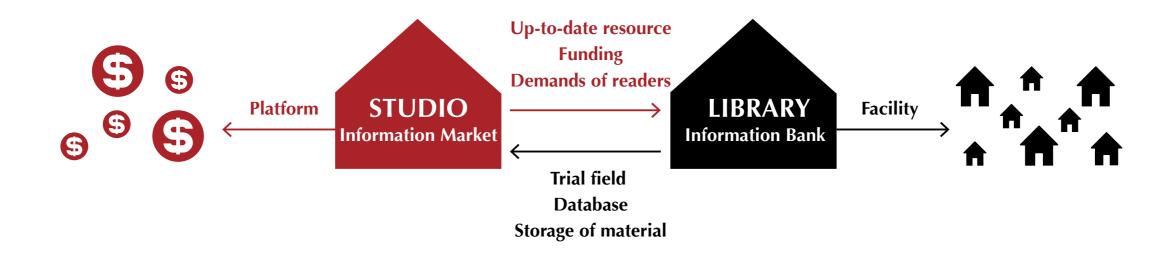




Two main programs in the whole institute

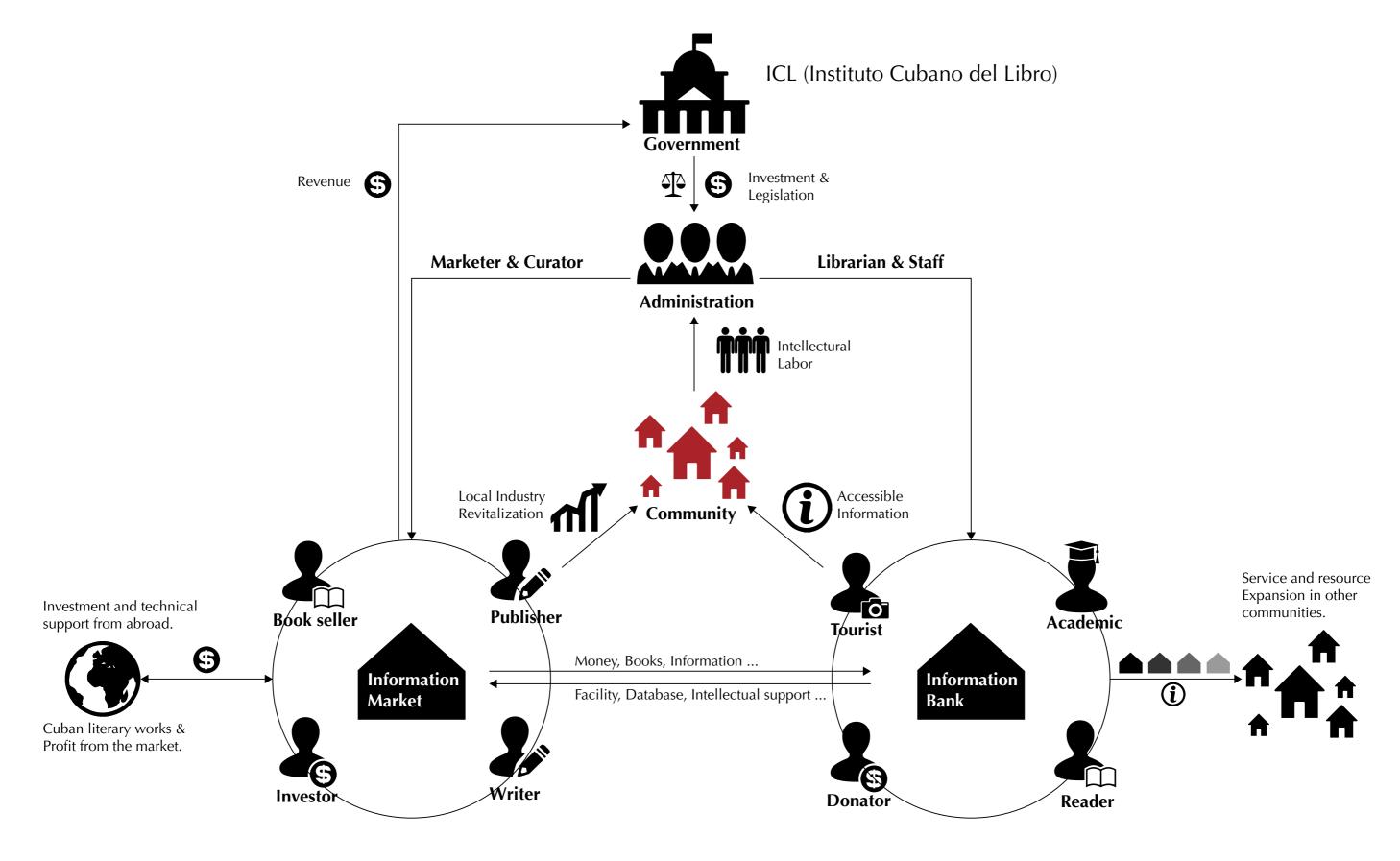


OPERATION STRATEGY: RECIPROCAL PLATFORM

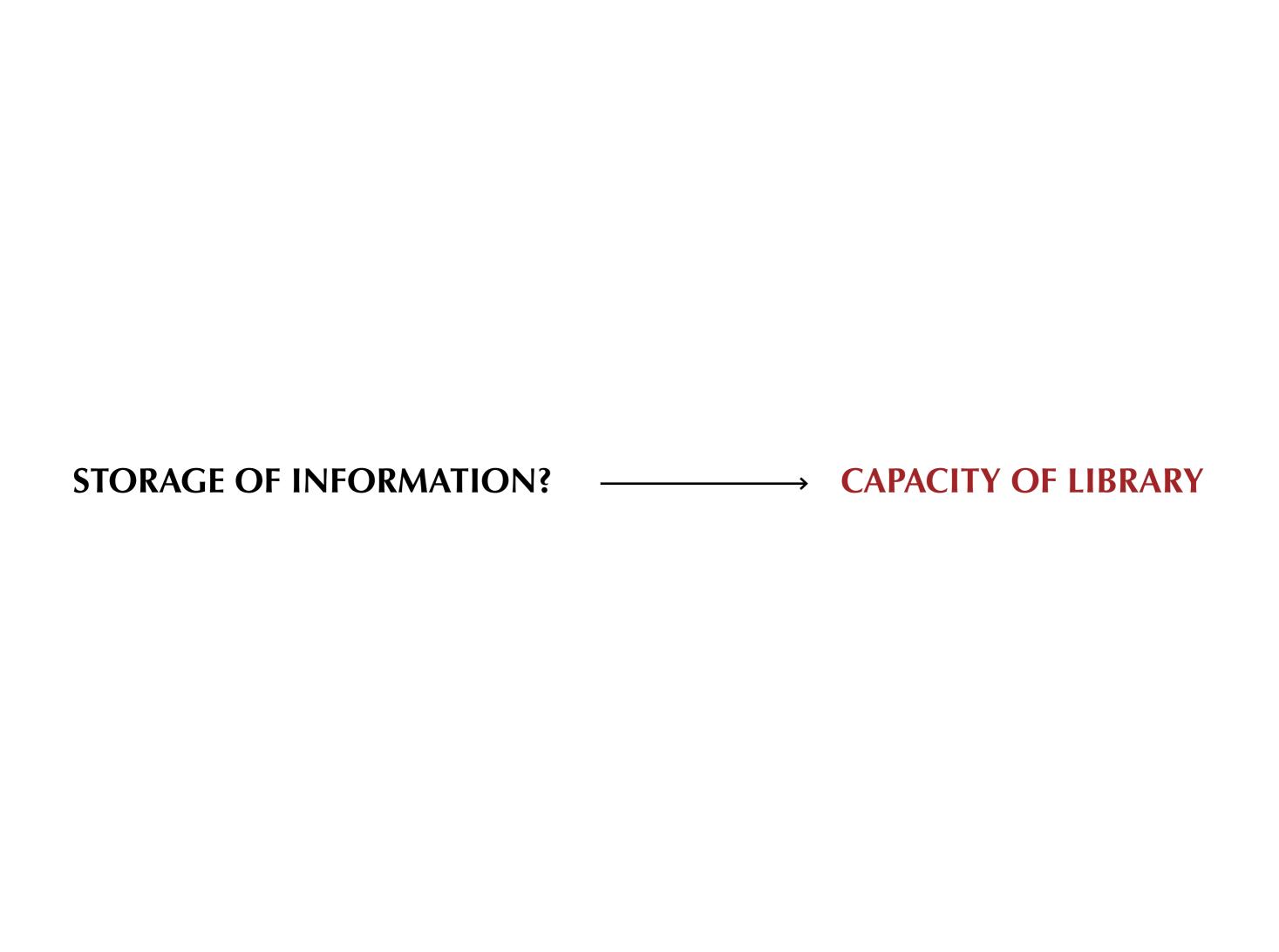


Among the whole integration, both of information and resource can be exchanged between the publication center and information library. This two parts are bound together to run a selfsustain system.

OPEN FORUM UNDER NATIONAL ORGANIZATION



Organization and Participants



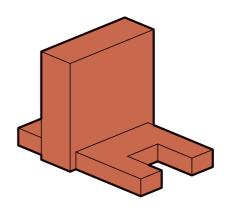
HOW BIG THE LIBRARY SHOULD BE: CAPACITY AND DENSITY

National Library José Martí, Habana, Cuba

Area: 15,450 m²

Total volumes: 4,000,000 Density: 258 volumes/m²



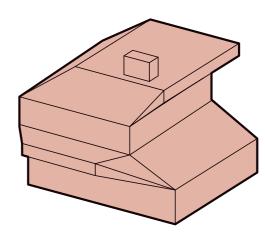


Seattle Central Library, Washington, United States

Area: 33,722 m²

Total volumes: 1,450,000 Density: 43 volumes/m²

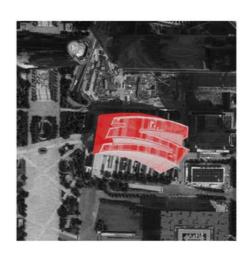


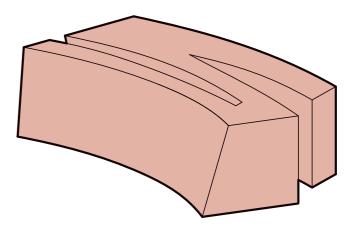


Guangzhou Library, Guangzhou, China

Area: 100,000 m²

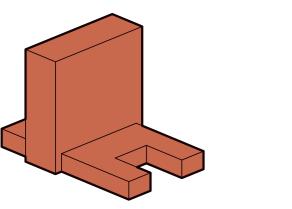
Total volumes: 3,800,000 Density: 38 volumes/m²





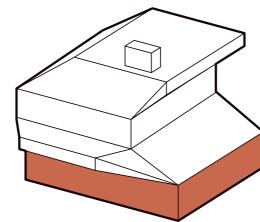
LIBRARY FOR THE FUTURE: LESS BOOK AND MORE SPACE

National Library José Martí



258 volumes/m²

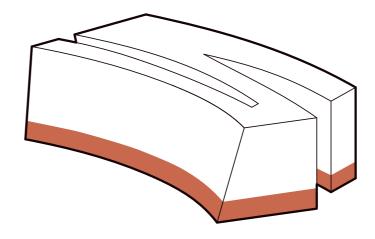
Seattle Central Library



16%: BOOKS

84%: SOFT AREA

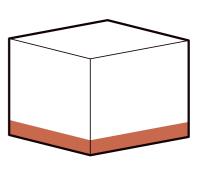
Guangzhou Library



15%: **BOOKS**

85%: SOFT AREA

Proposal



13%: **BOOKS**

87%: SOFT AREA



PART 1: RESEARCH INTRODUCTION

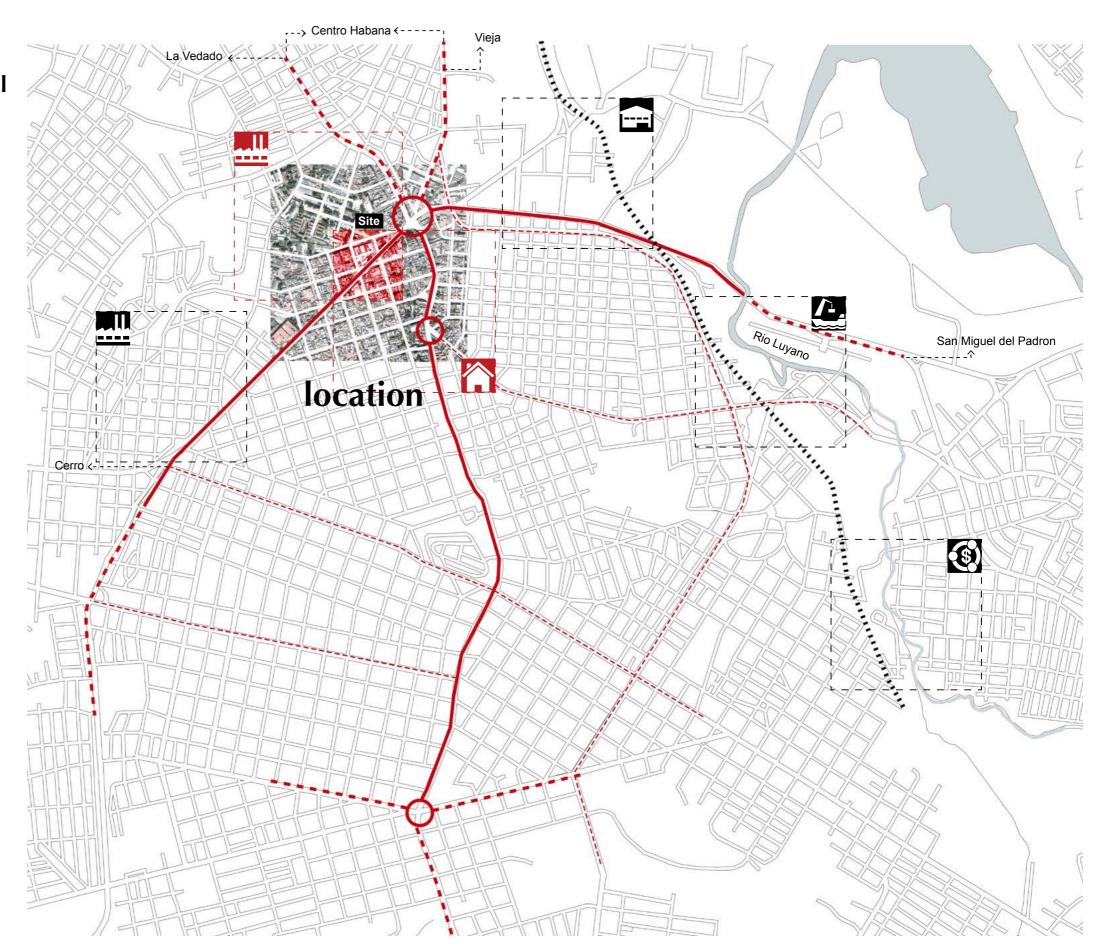
PART 2: SITE SELECTION

PART 3: ARCHITECTURE DESIGN

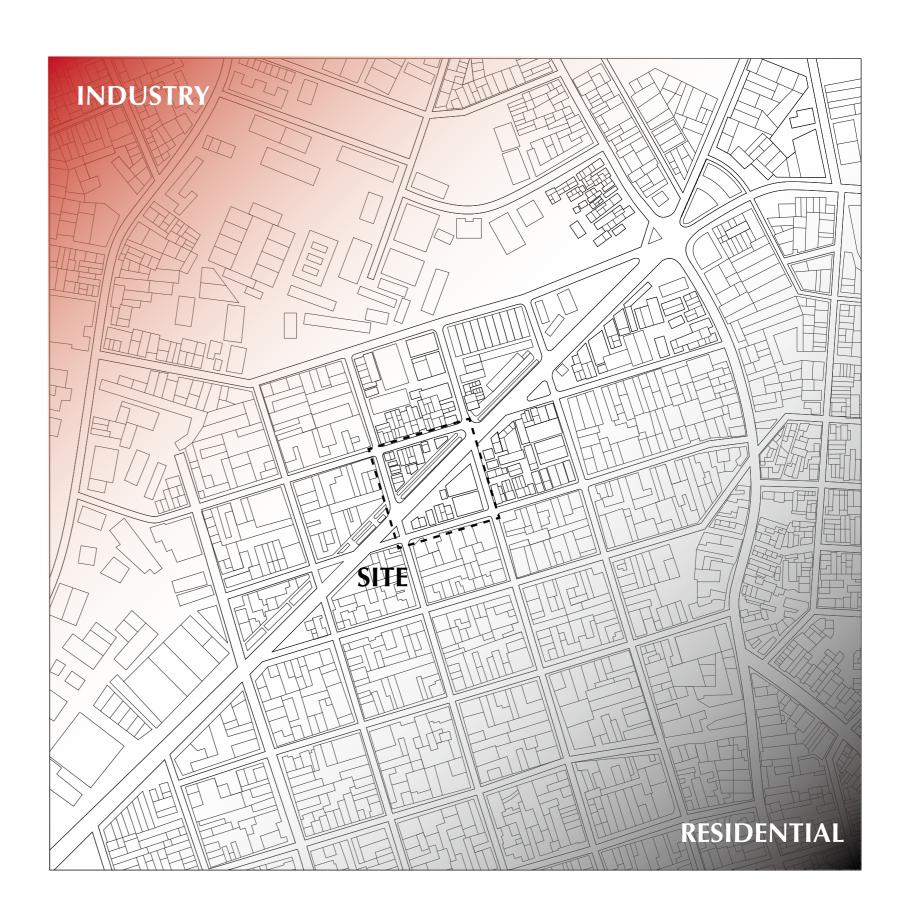
PART 4: SUSTAINABILITY

SITE SELECTION:

- + Buffer zone with interaction
- + Be closed to transportation hub
- + Not embed but close to the residential area with well accessibility
- Be cut by urban transportation



SITE ANALYSE: Road as an isolation



SITE ANALYSE: Mix-used area

Public facility

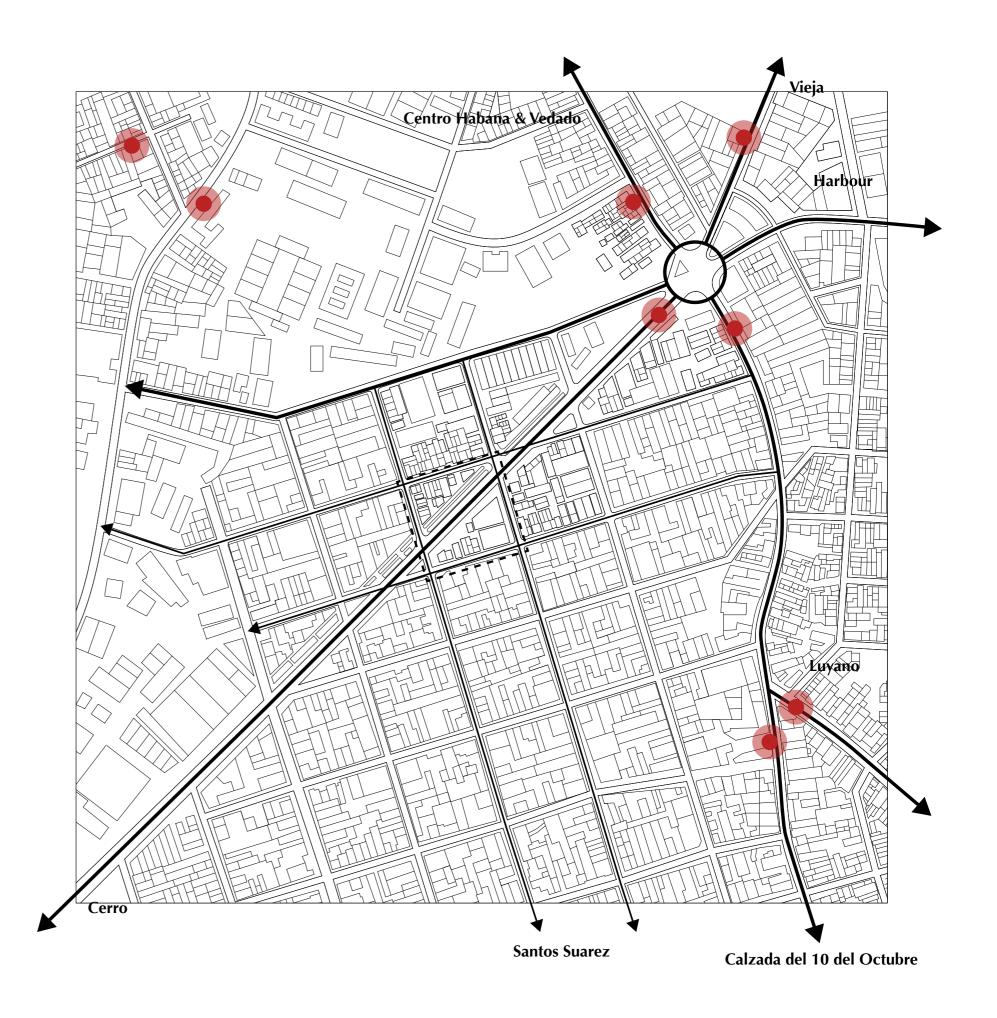
Industrial programs



SITE ANALYSE: Detorioration

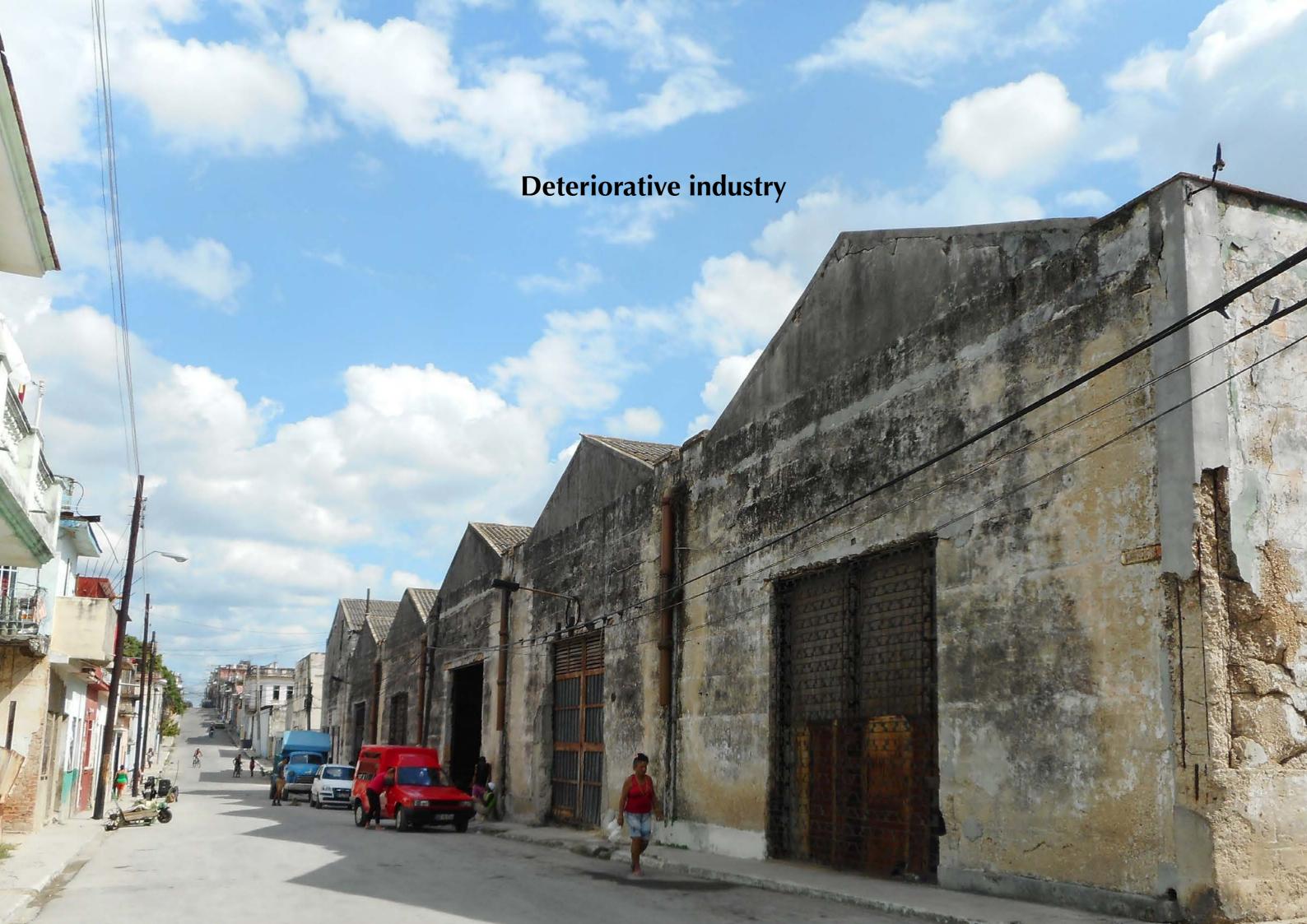


SITE ANALYSE: Transportation









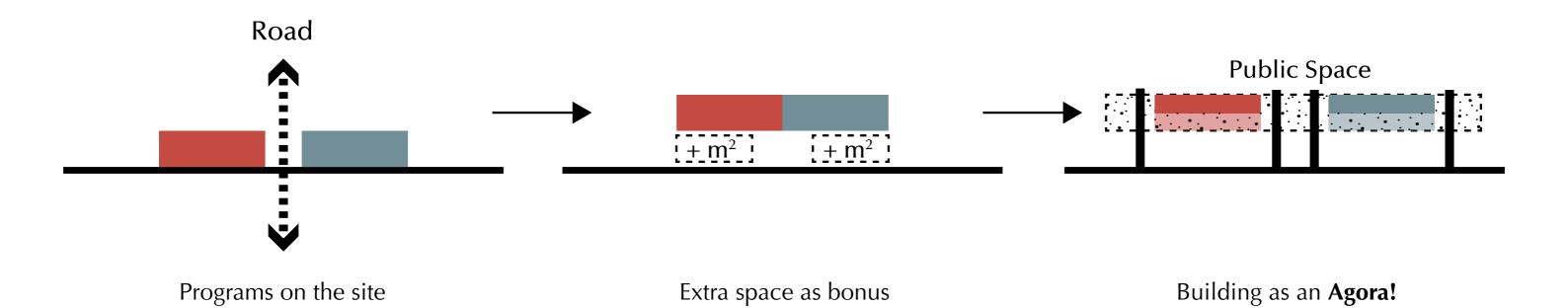


PART 1: RESEARCH INTRODUCTION PART 2: SITE SELECTION

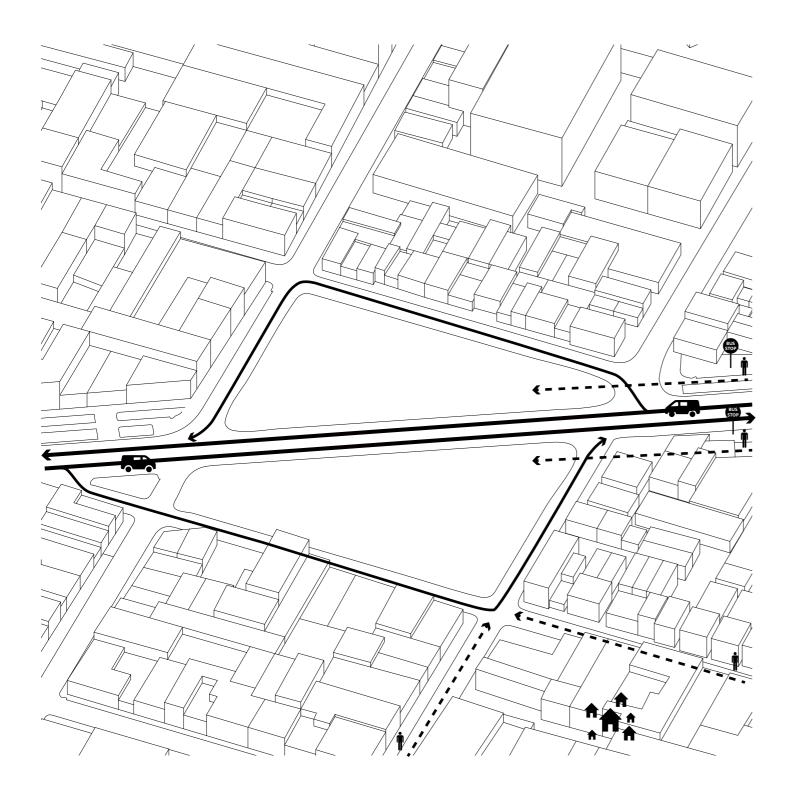
PART 3: ARCHITECTURE DESIGN

PART 4: SUSTAINABILITY

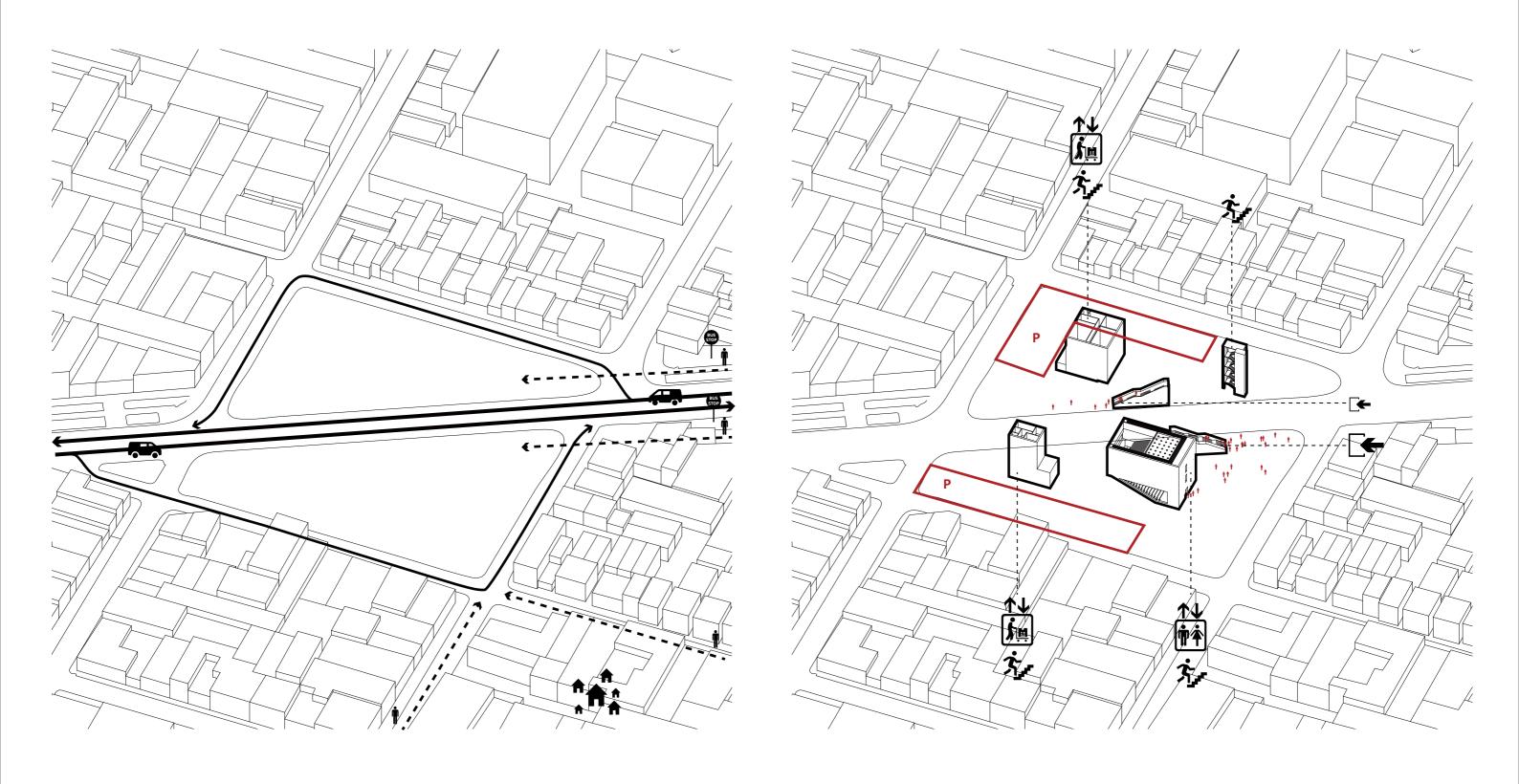
ARCHITECTURAL CONCEPT:



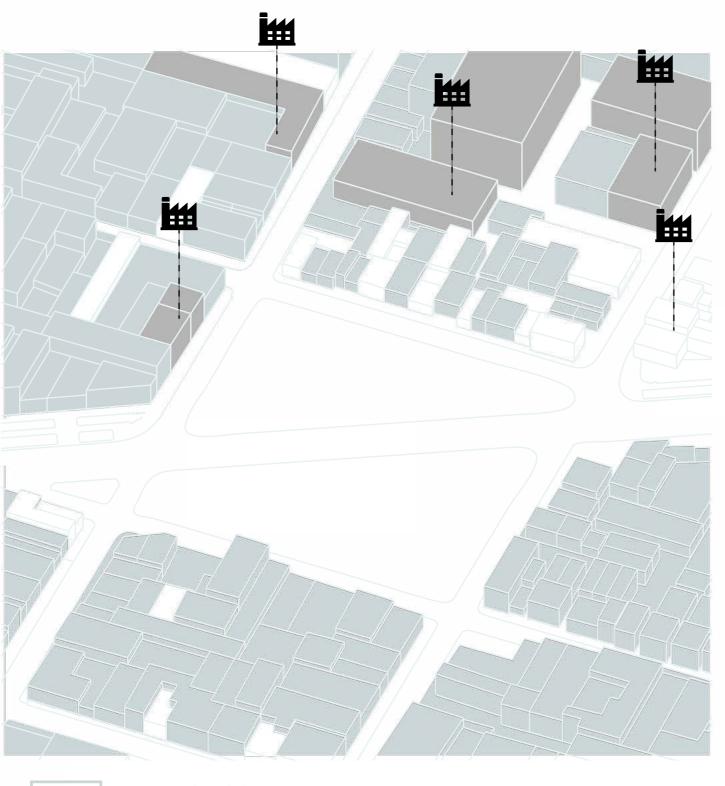
CONTEXT: TRAFFIC AND ENTRANCE



CONTEXT: TRAFFIC AND ENTRANCE



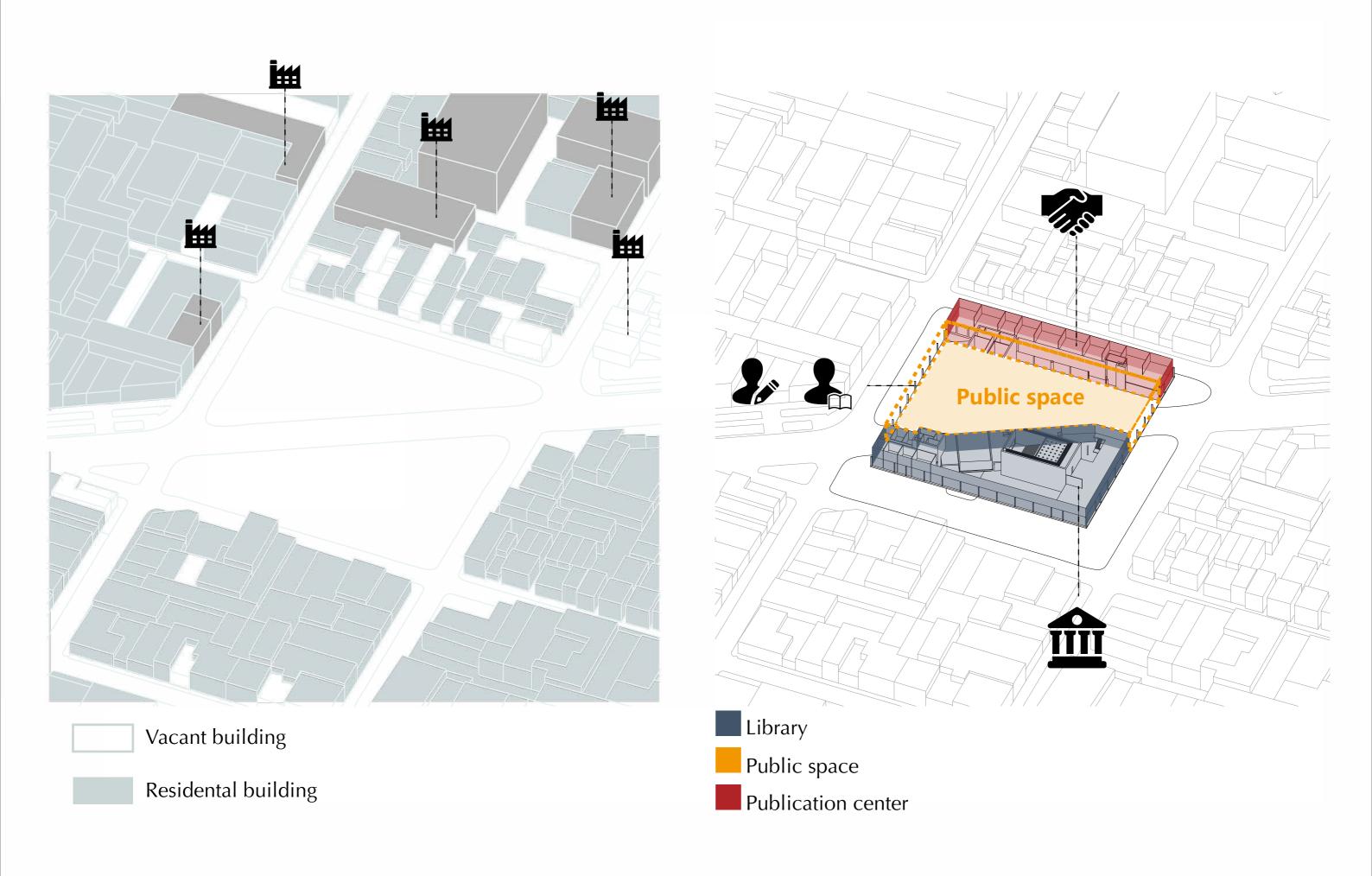
CONTEXT: PROGRAMS AND NEIGHBOURHOOD



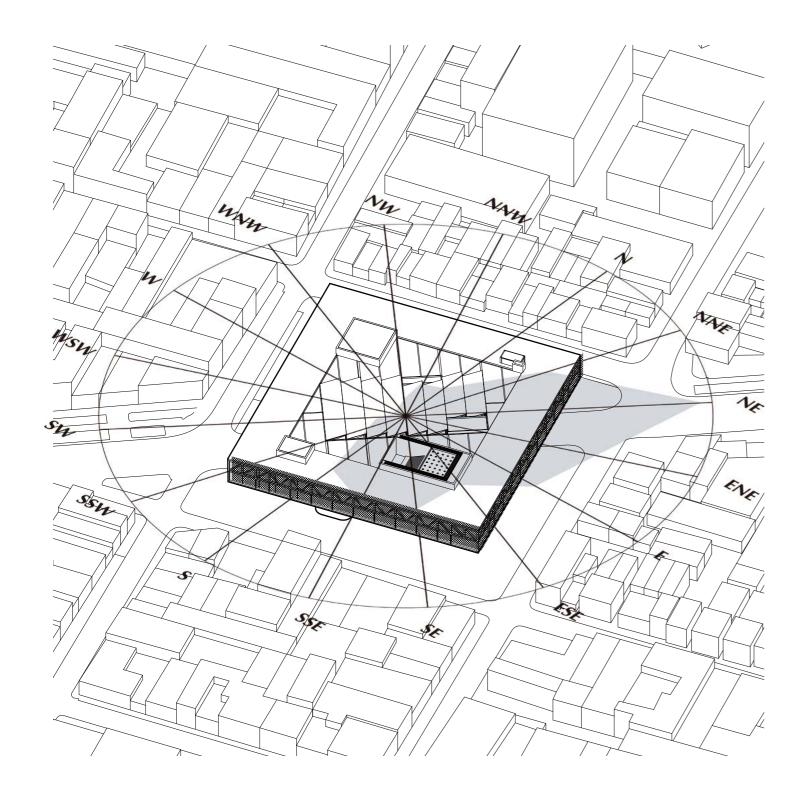
Vacant building

Residental building

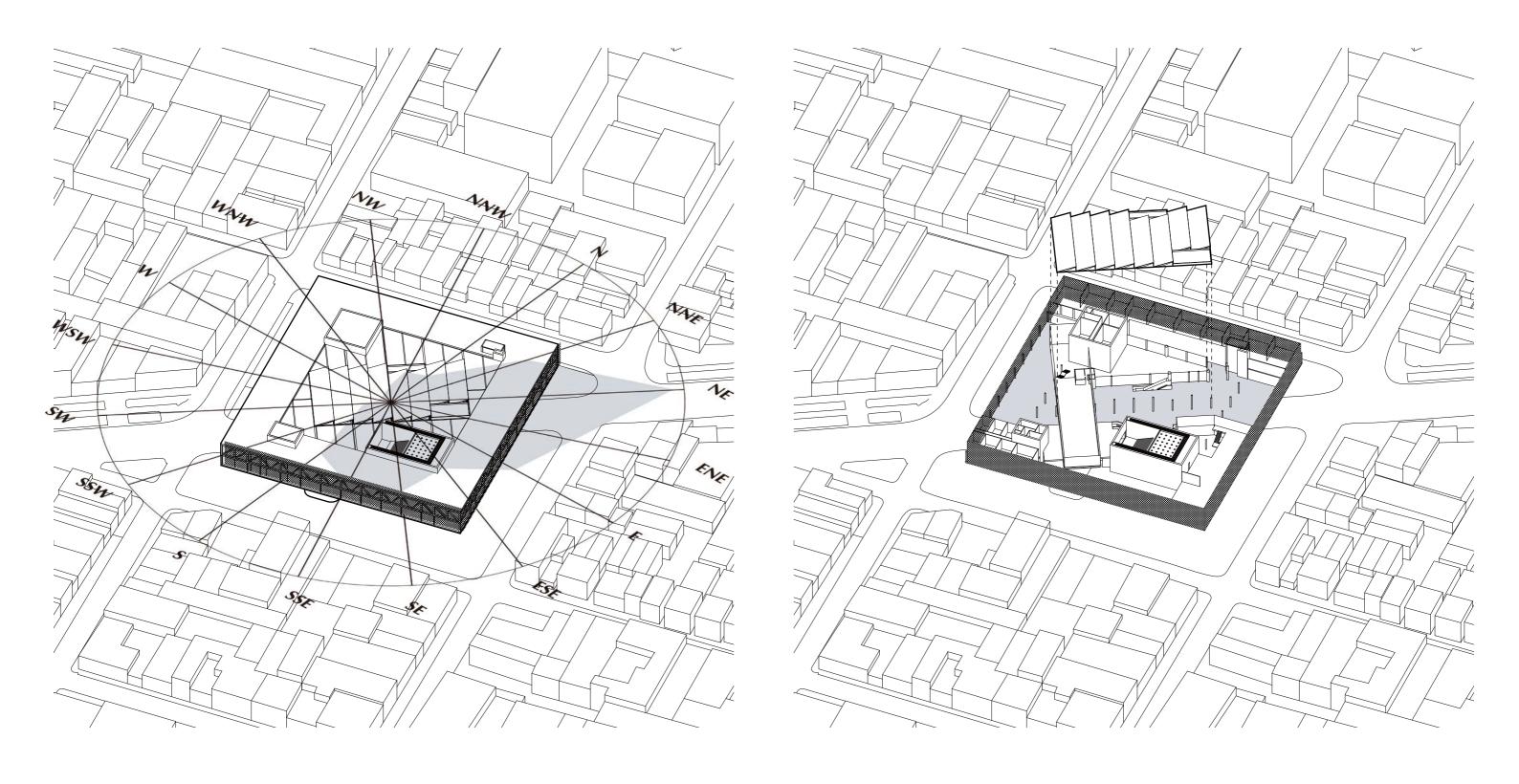
CONTEXT: PROGRAMS AND NEIGHBOURHOOD



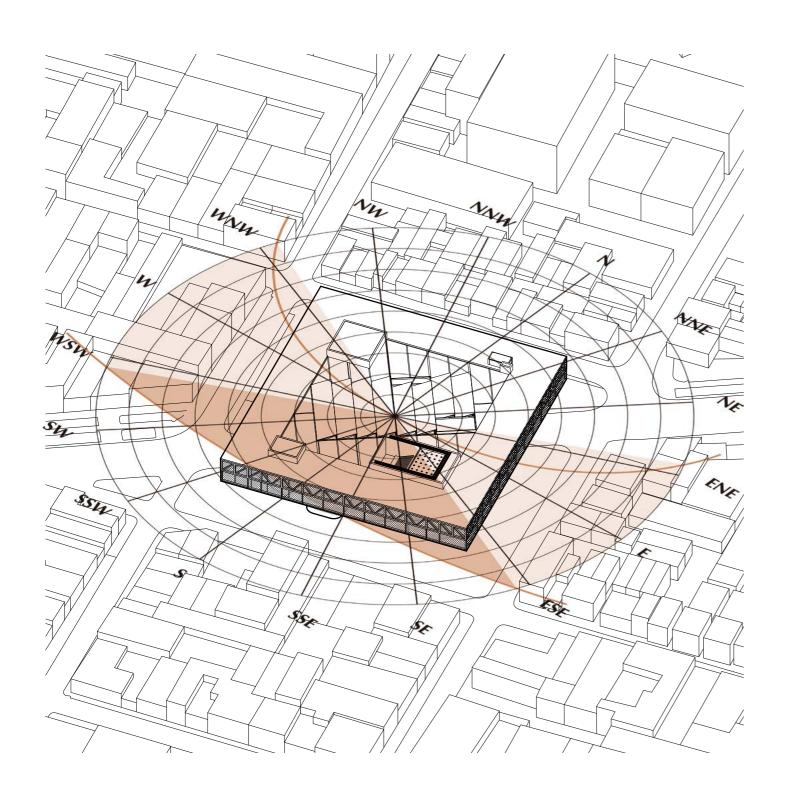
CONTEXT: PASSIVE VENTILATION



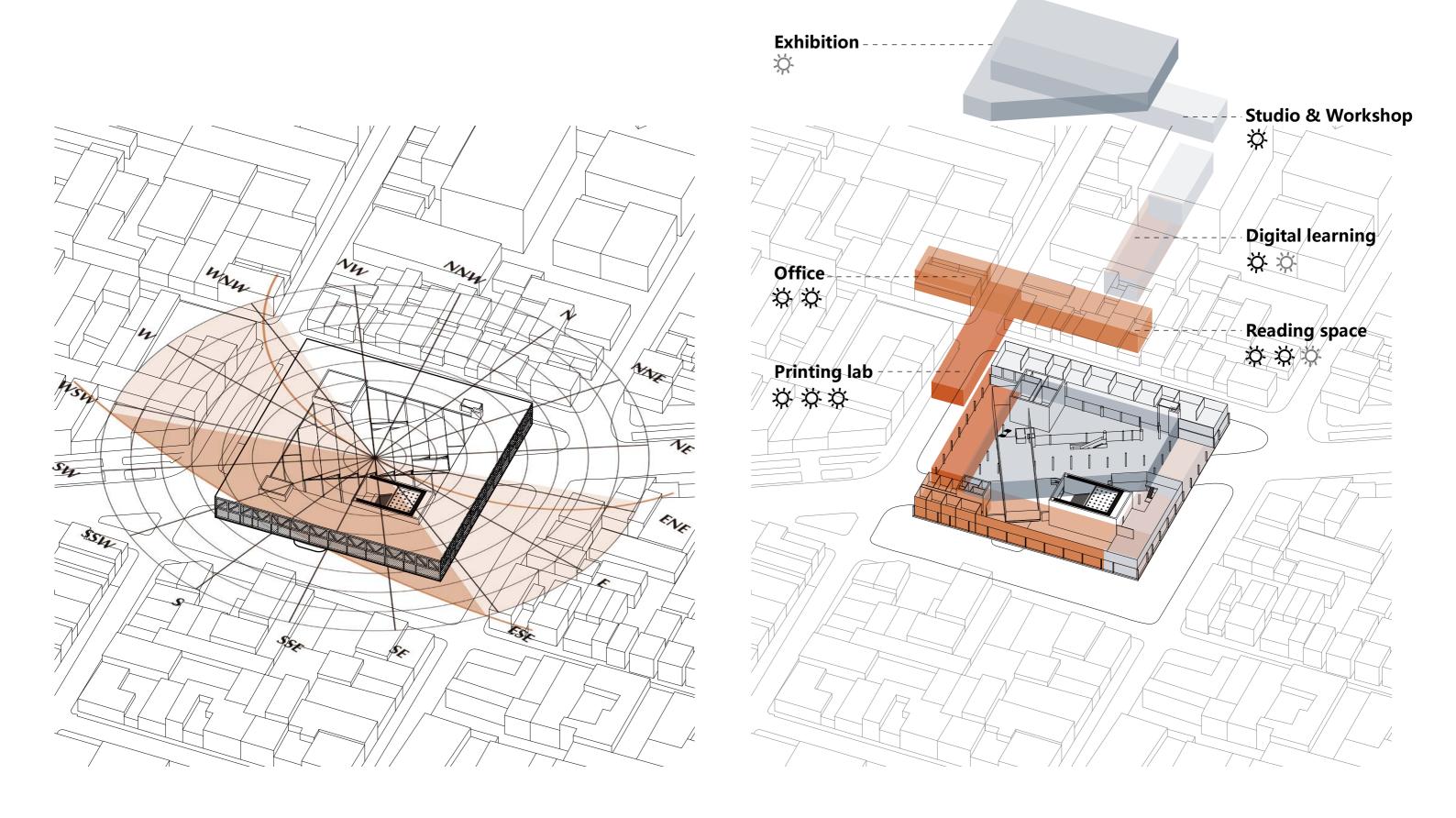
CONTEXT: PASSIVE VENTILATION

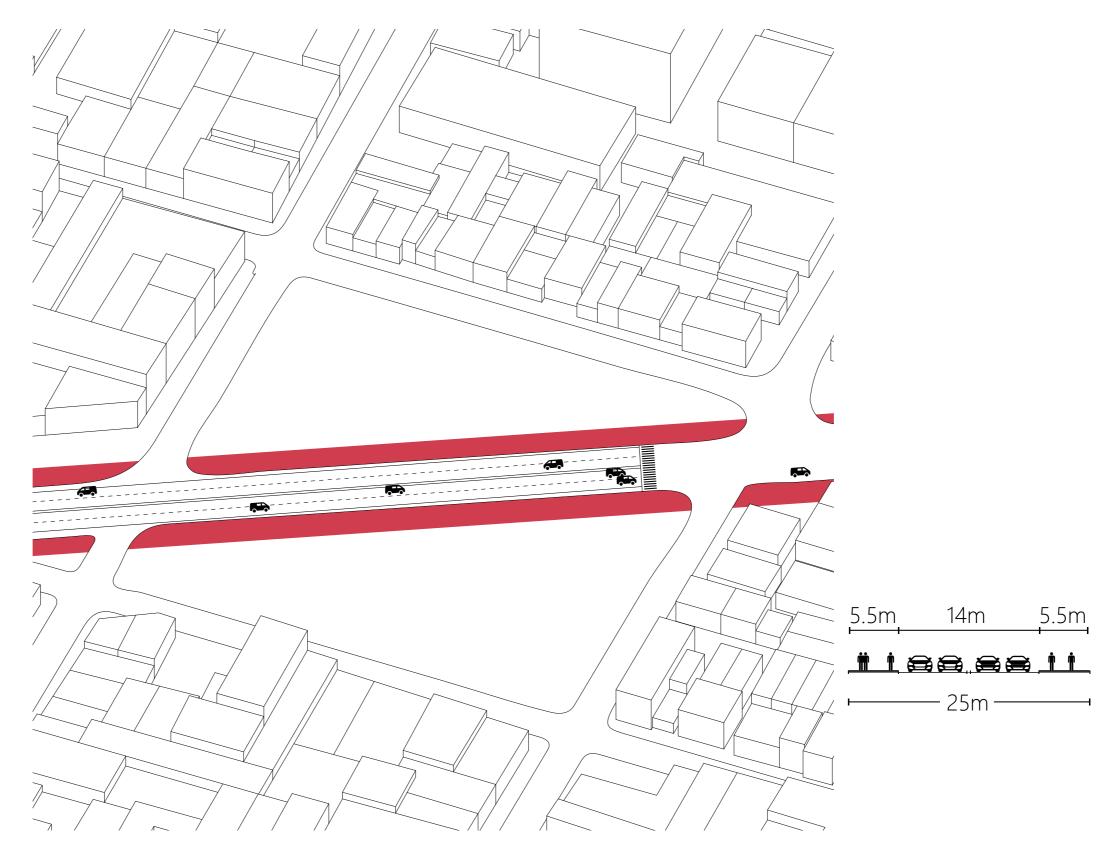


CONTEXT: NATURAL LIGHTING

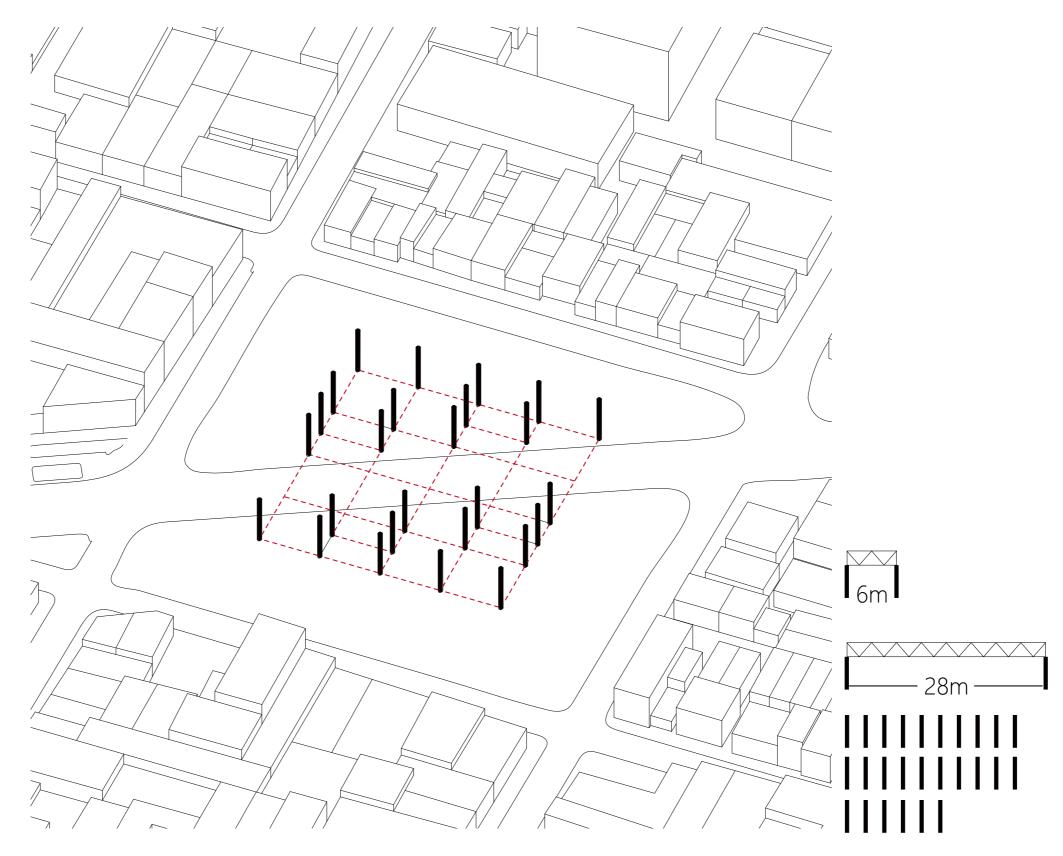


CONTEXT: NATURAL LIGHTING

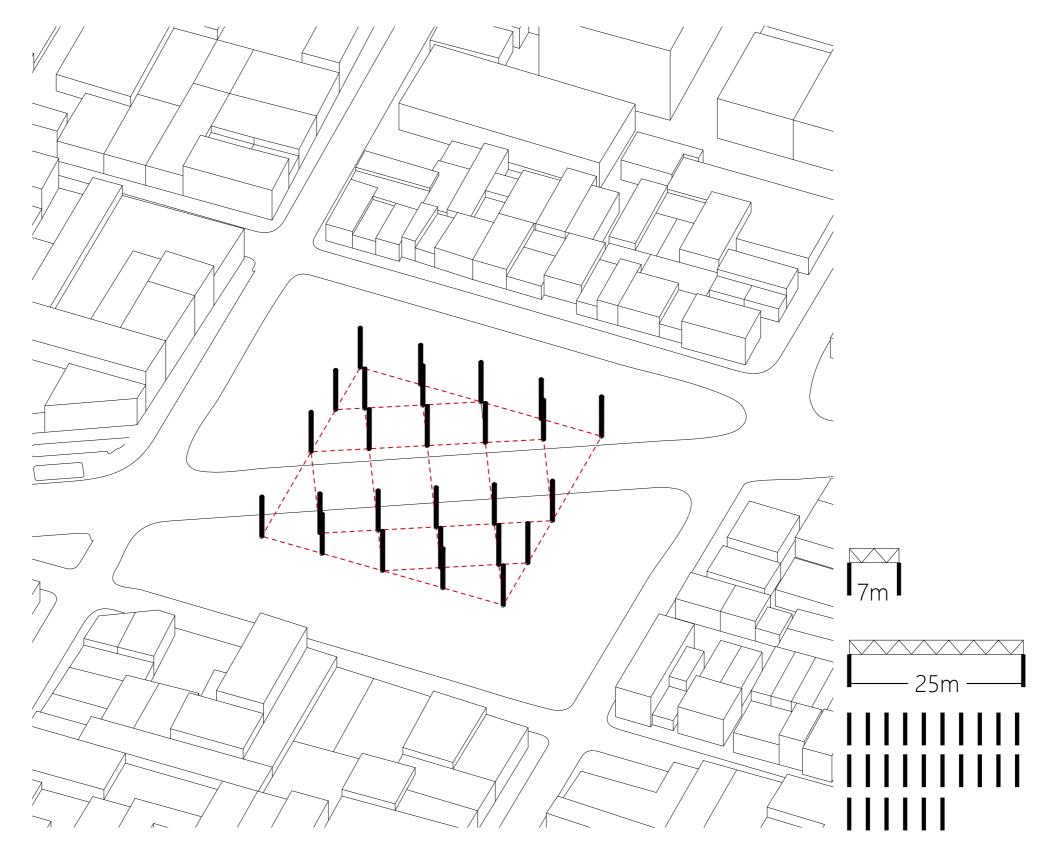




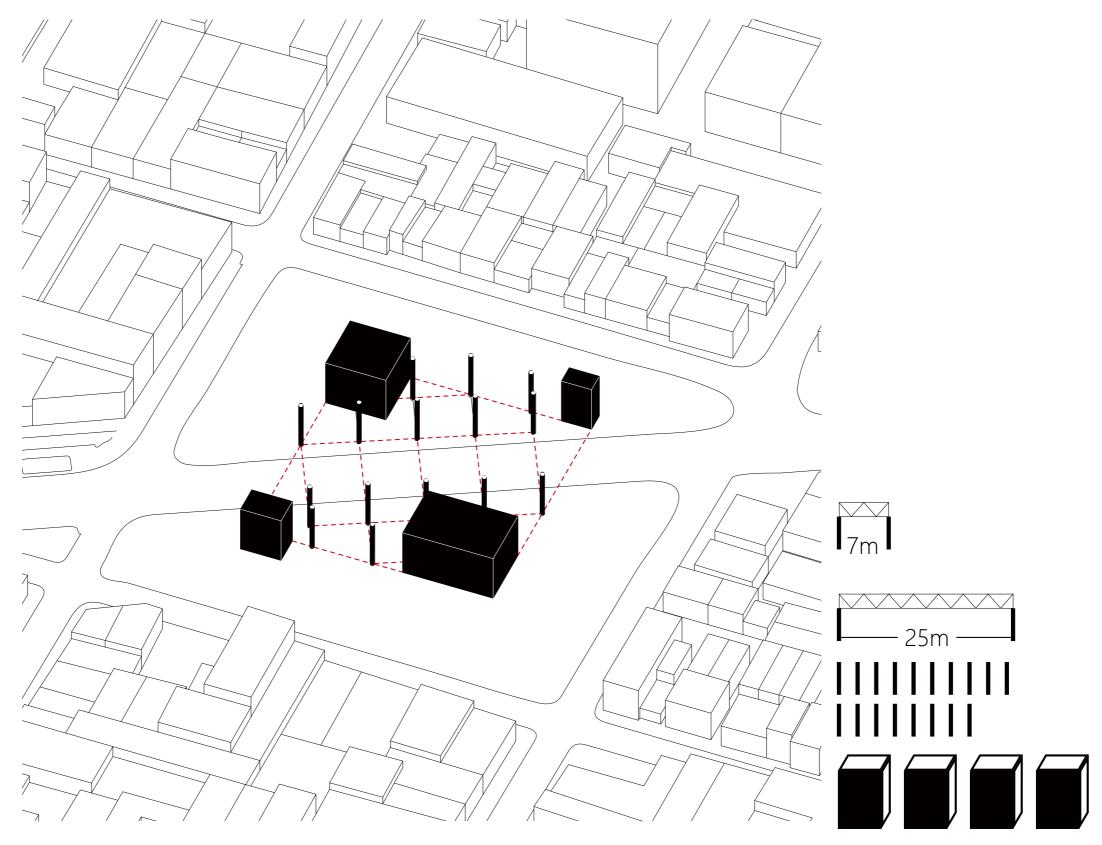
Space without structure



Structural grid follows edge of block

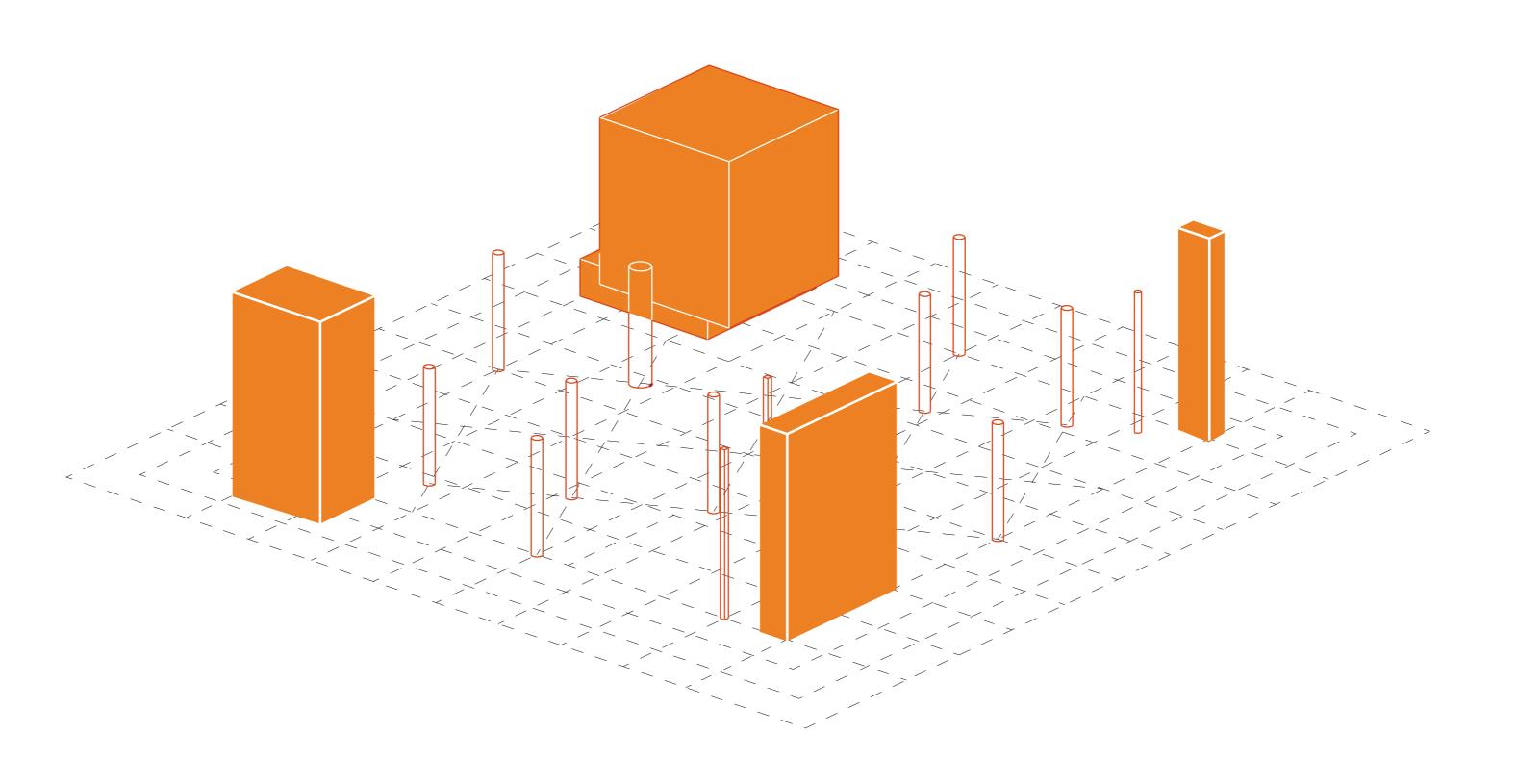


Efficient span: perpendicular to road

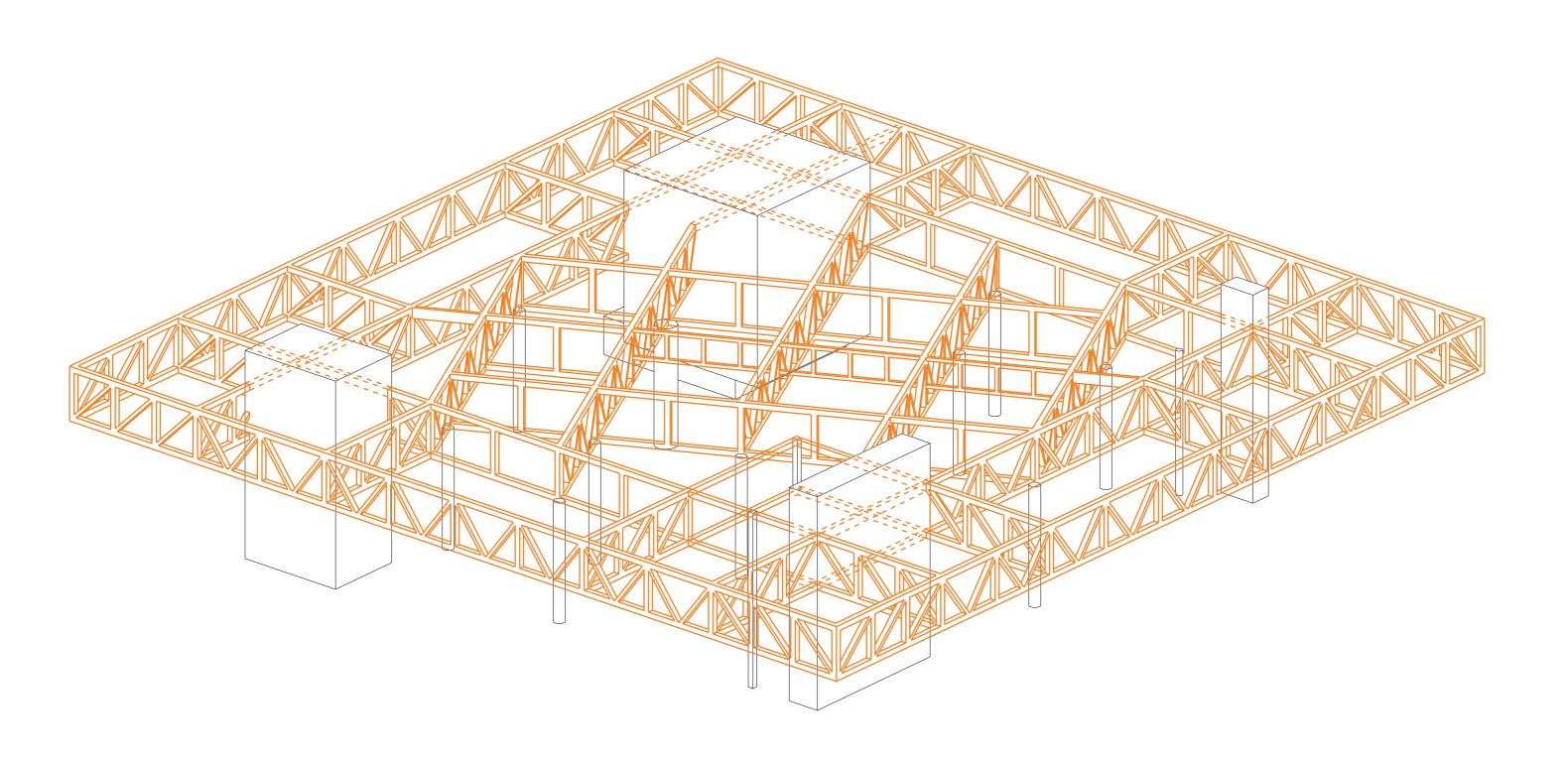


Inside structural cores: private programs + facilities

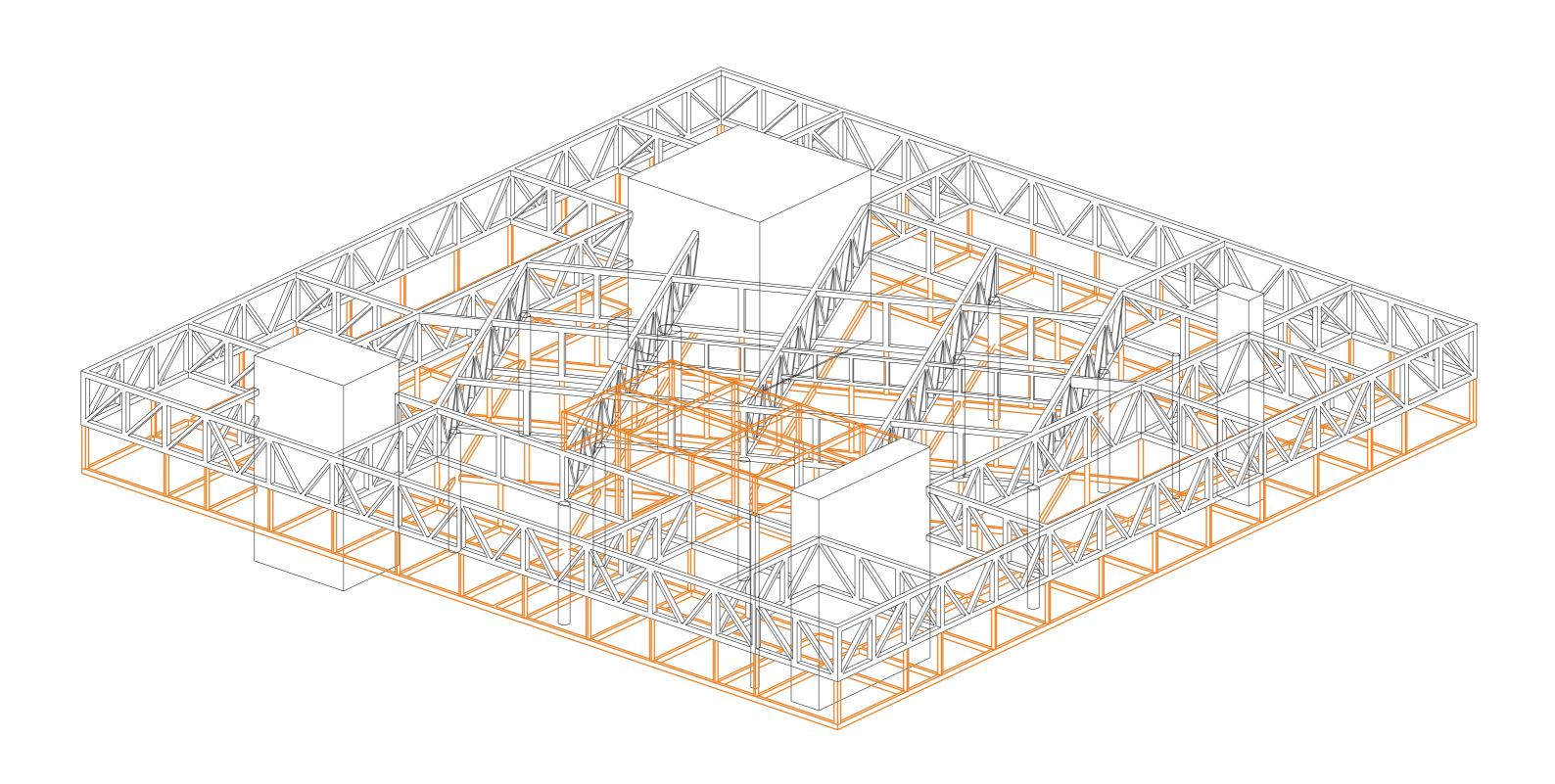
STRUCTURE: CONCRETE CORES AND COLUMNS



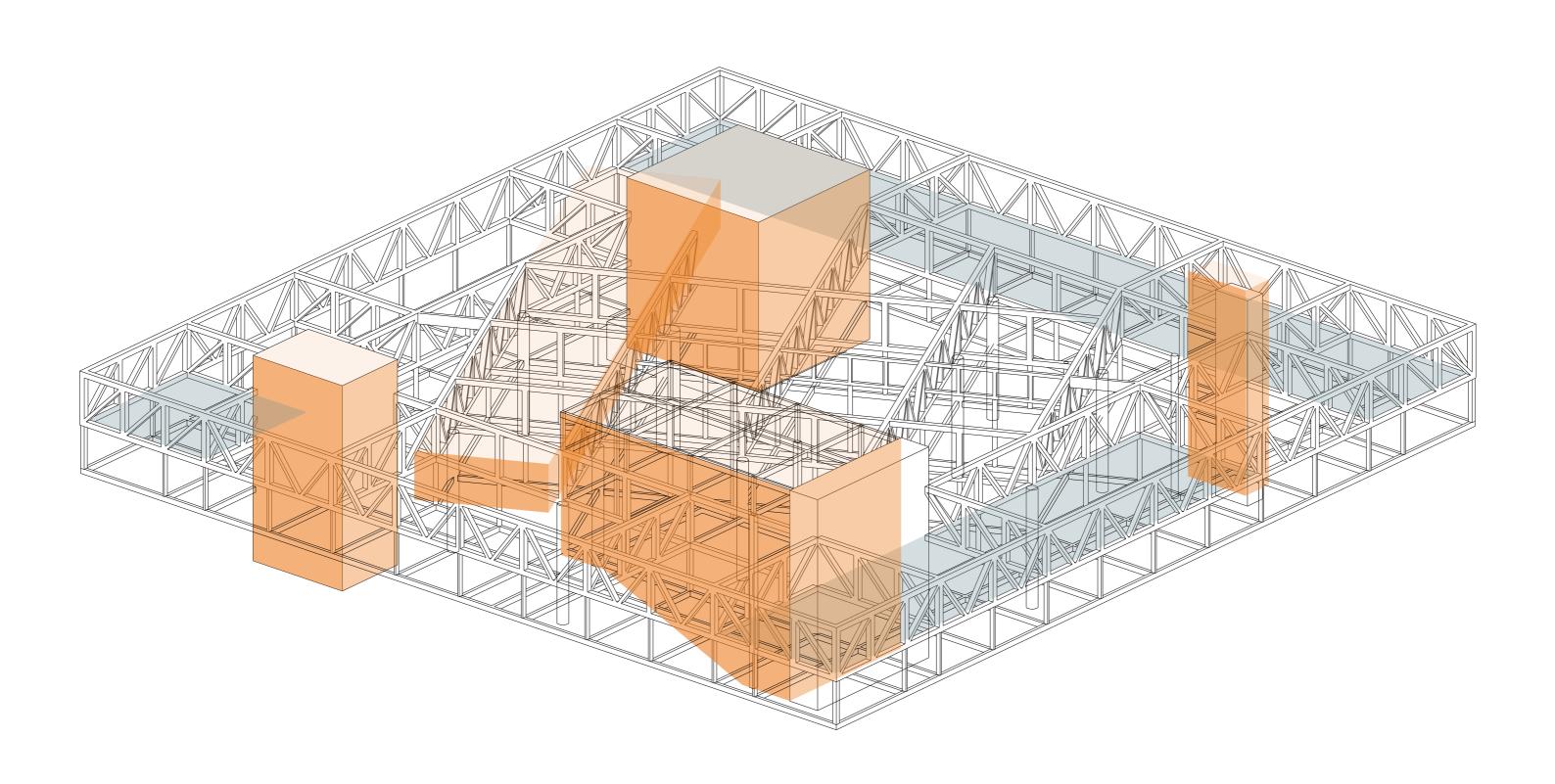
STRUCTURE: ROOF TRUSS SYSTEM

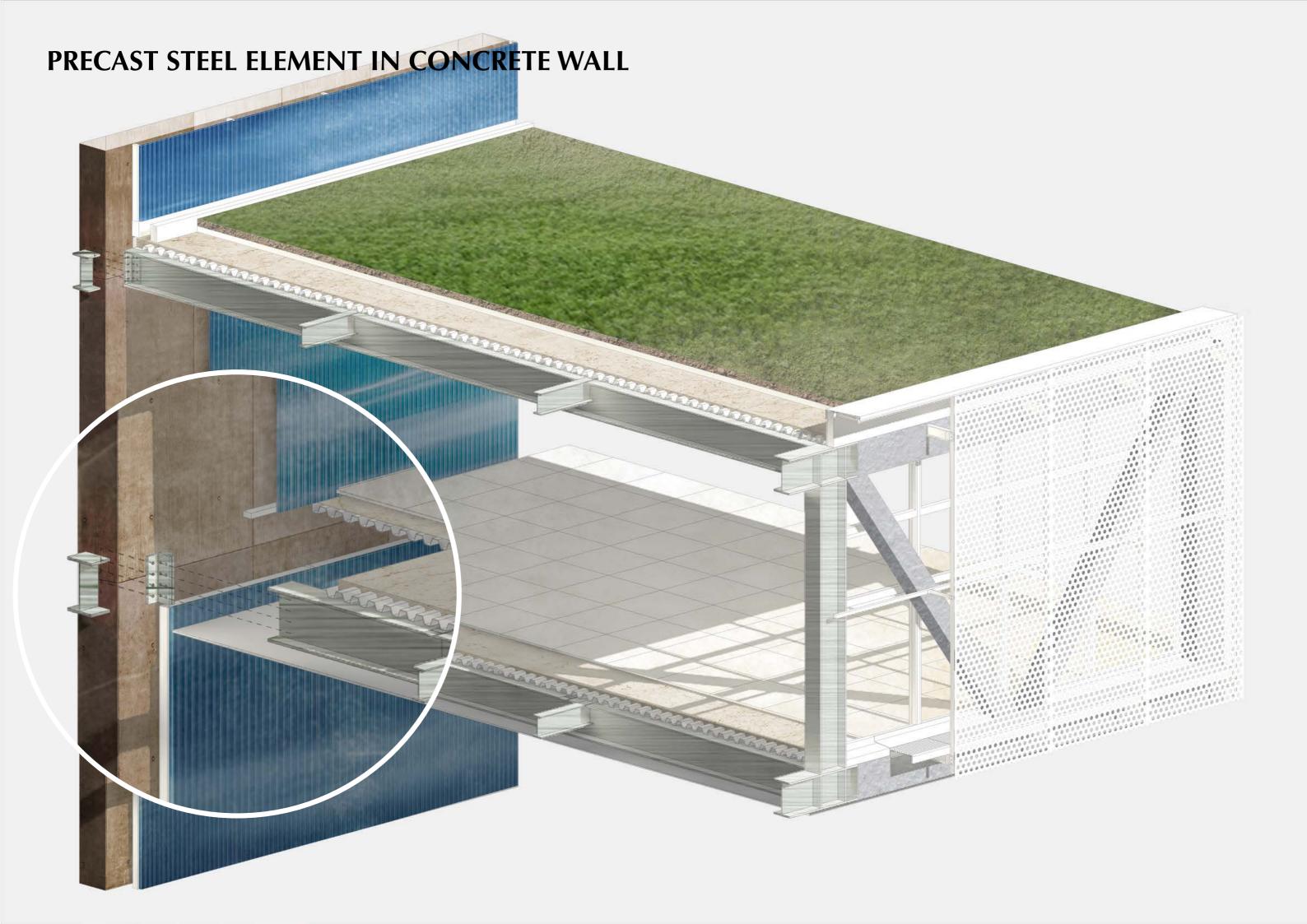


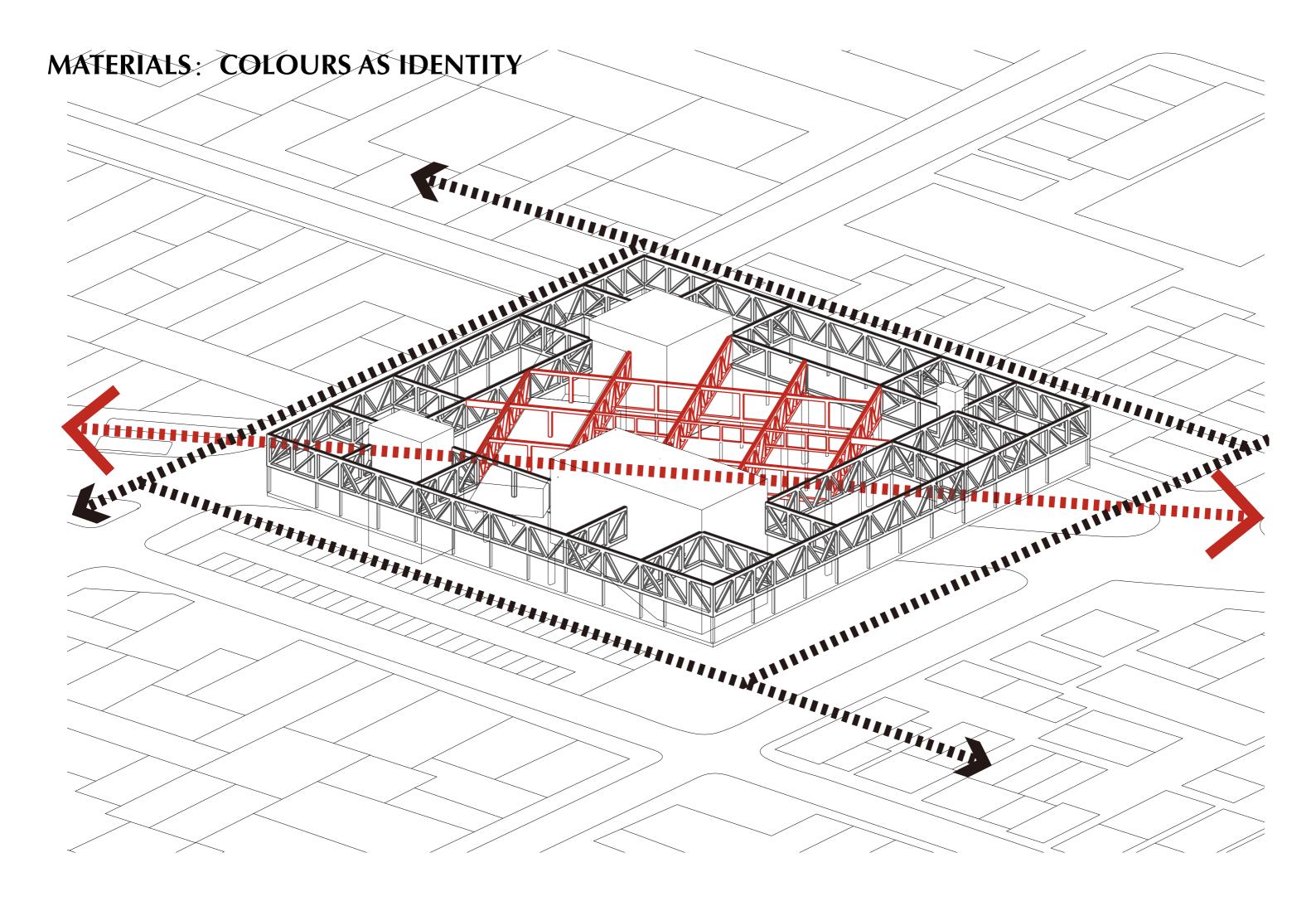
STRUCTURE: SECOND FLOOR HANGING UNDER ROOF

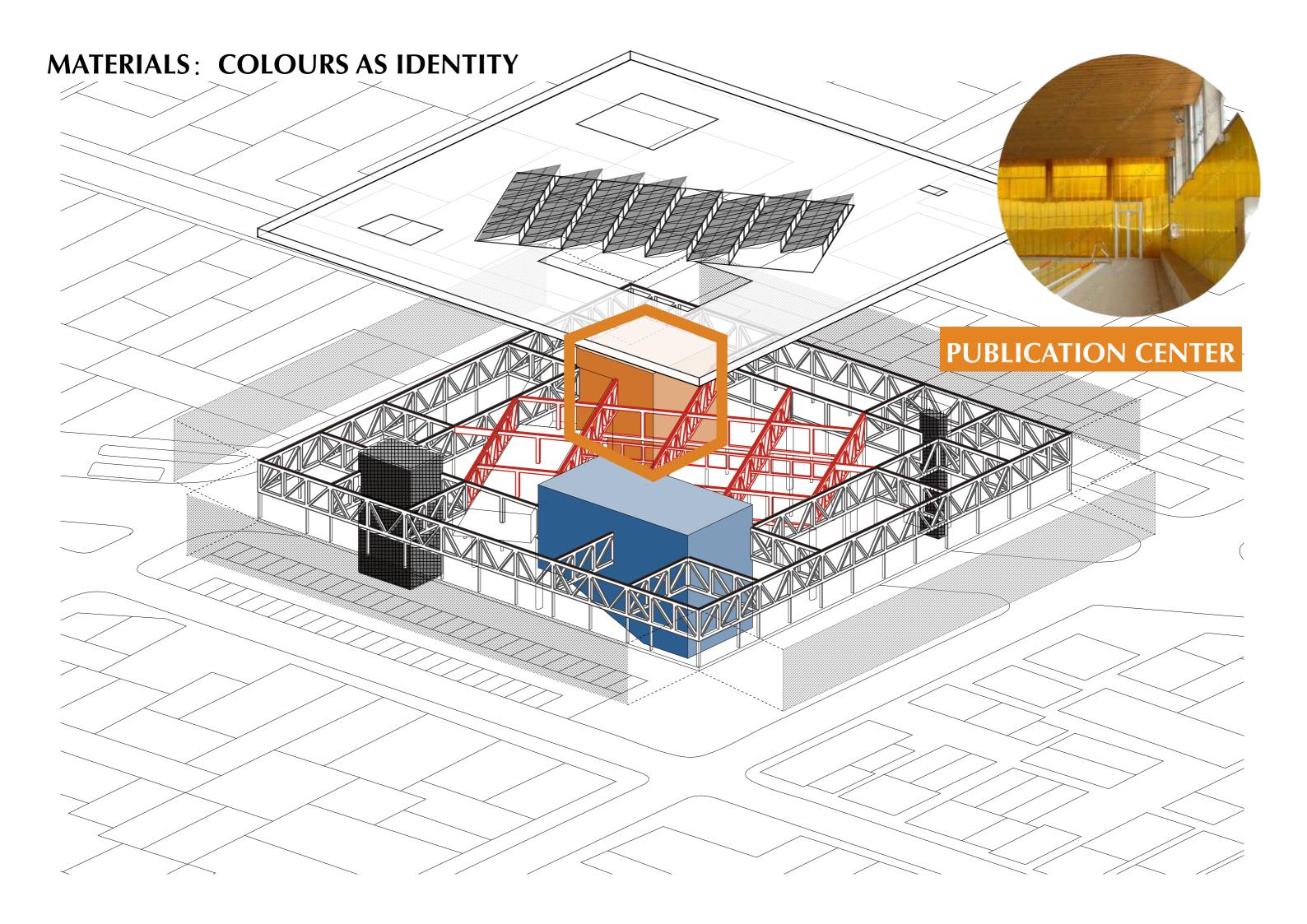


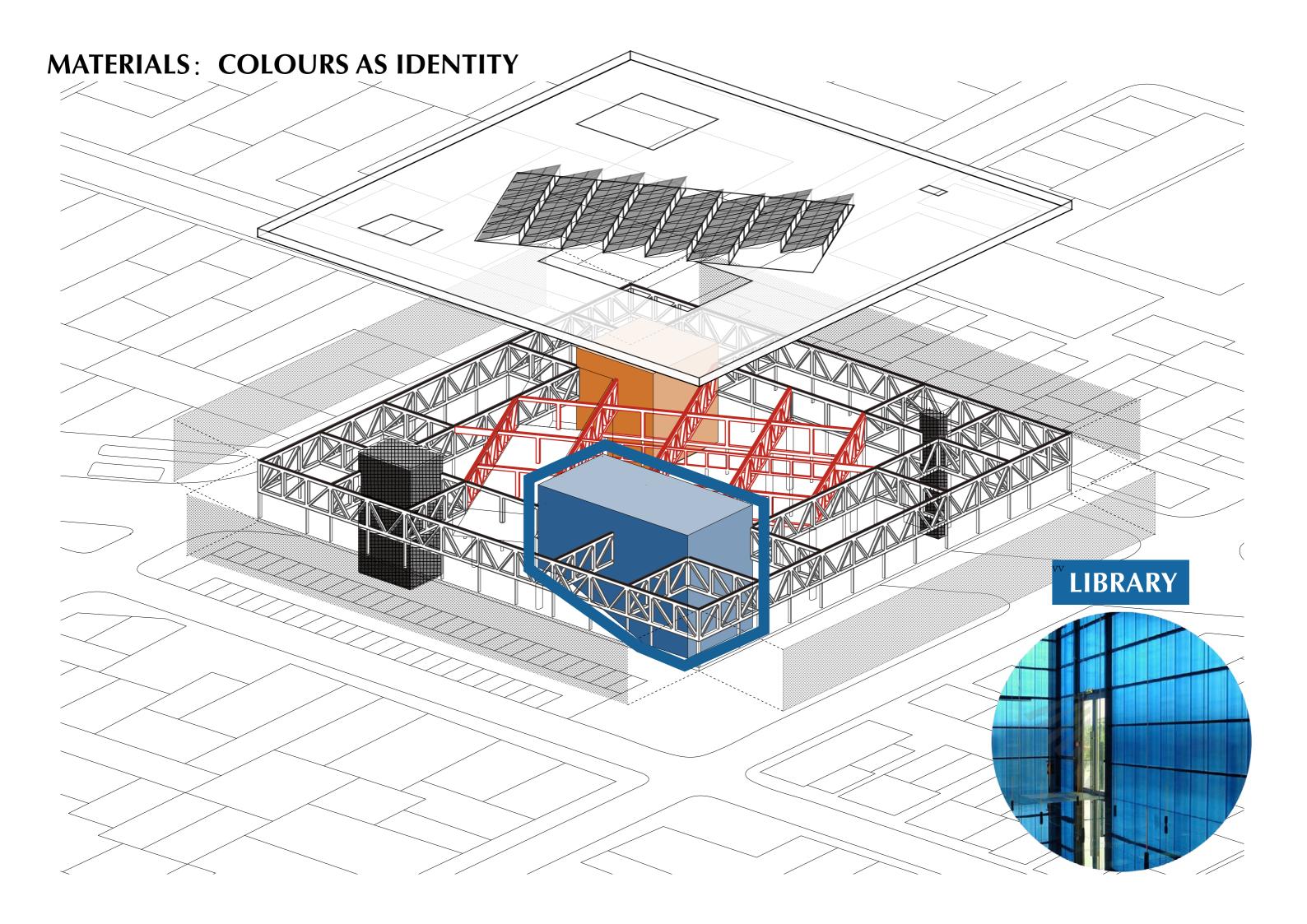
STRUCTURE: IN ROOF: ENTRANCE TO TRANSPARENTLY ENCLOSED SPACES

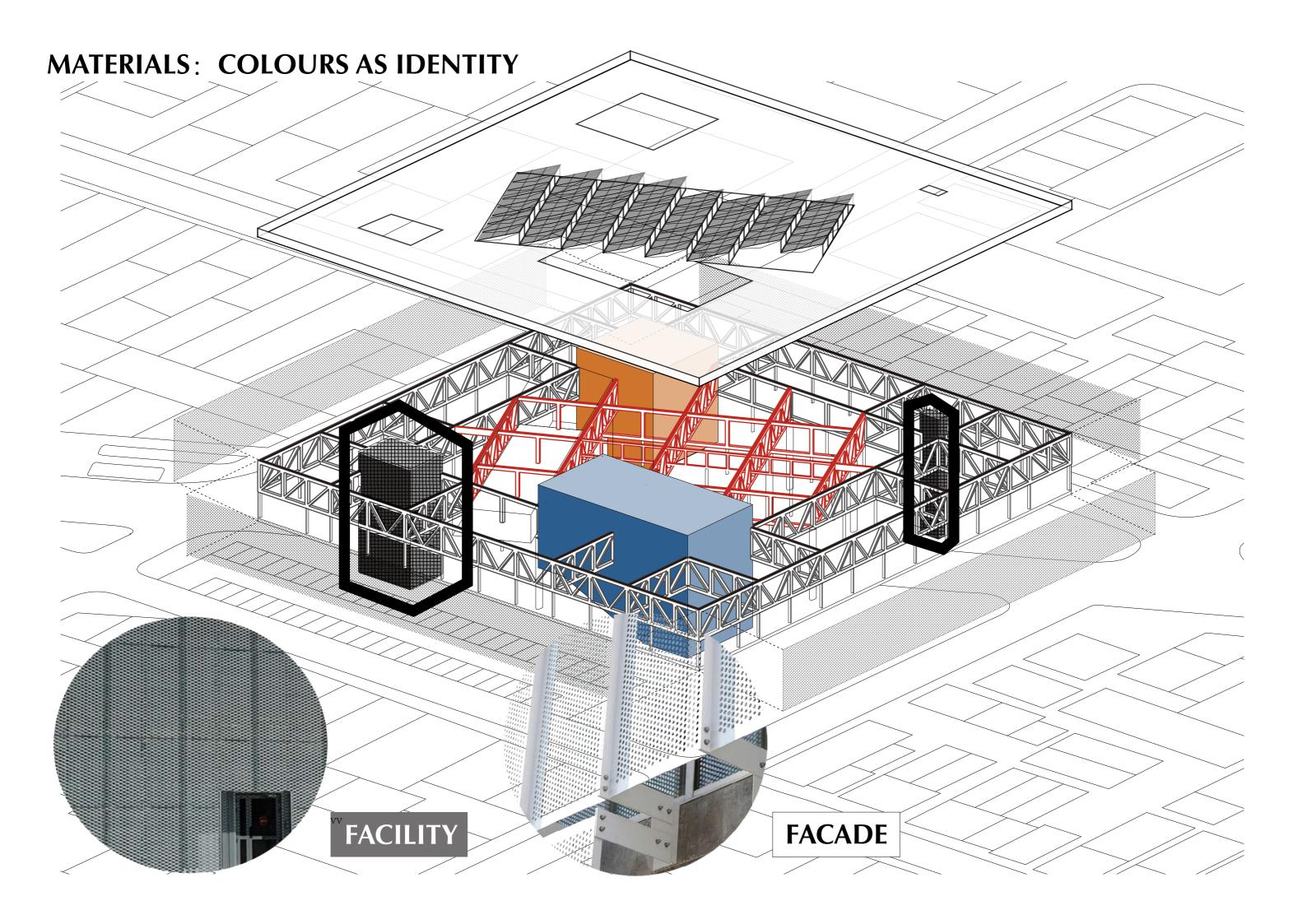




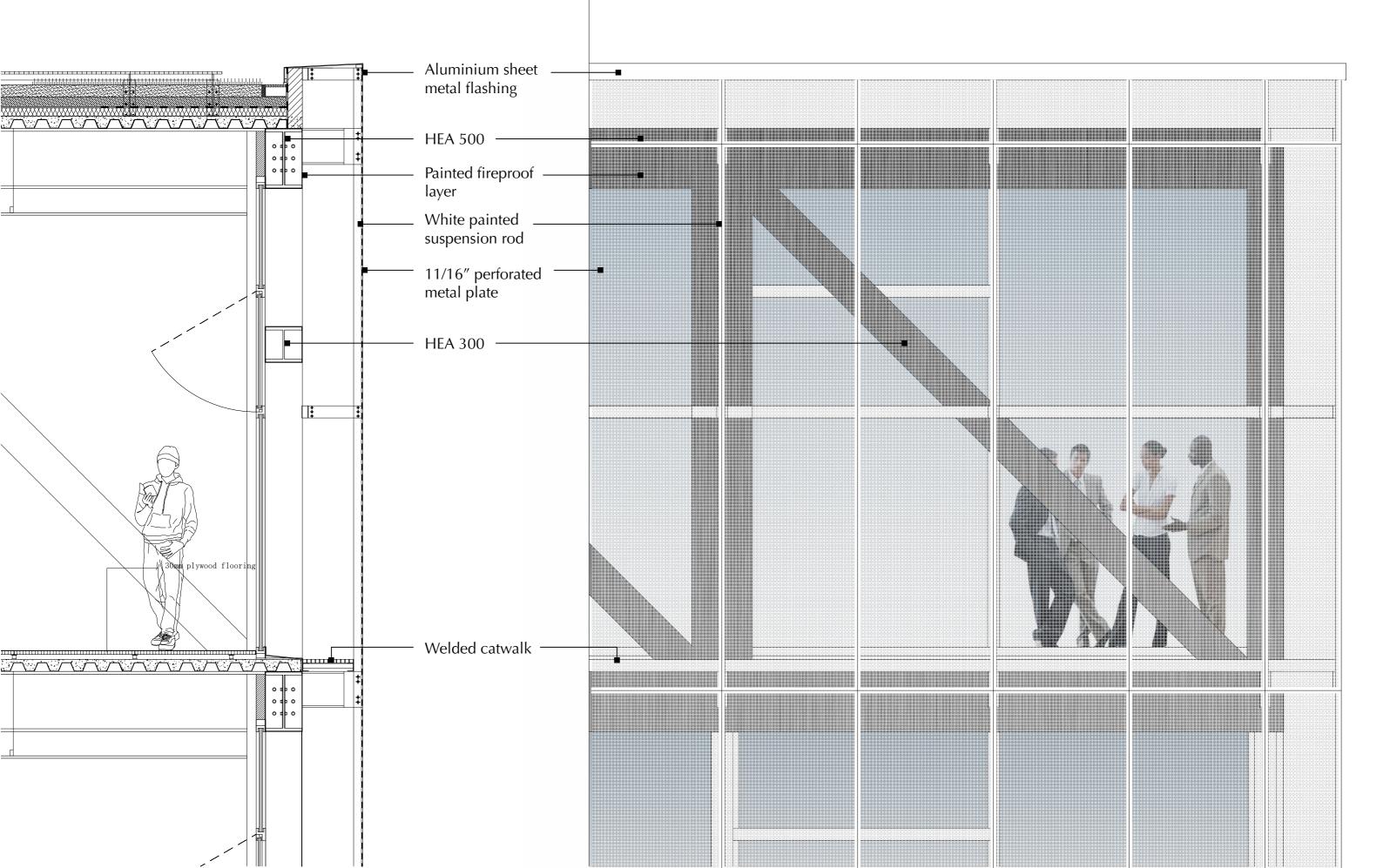




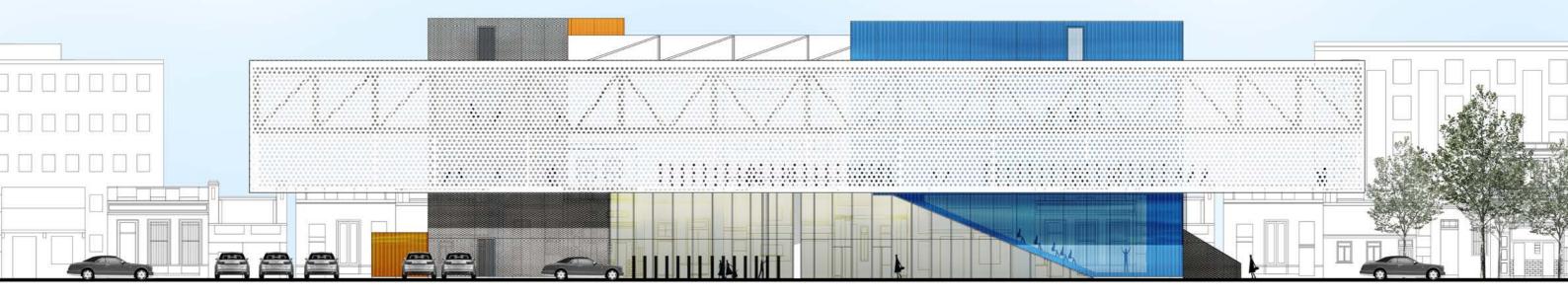




FACADES: ACTIVITIES ARE VISIBLE



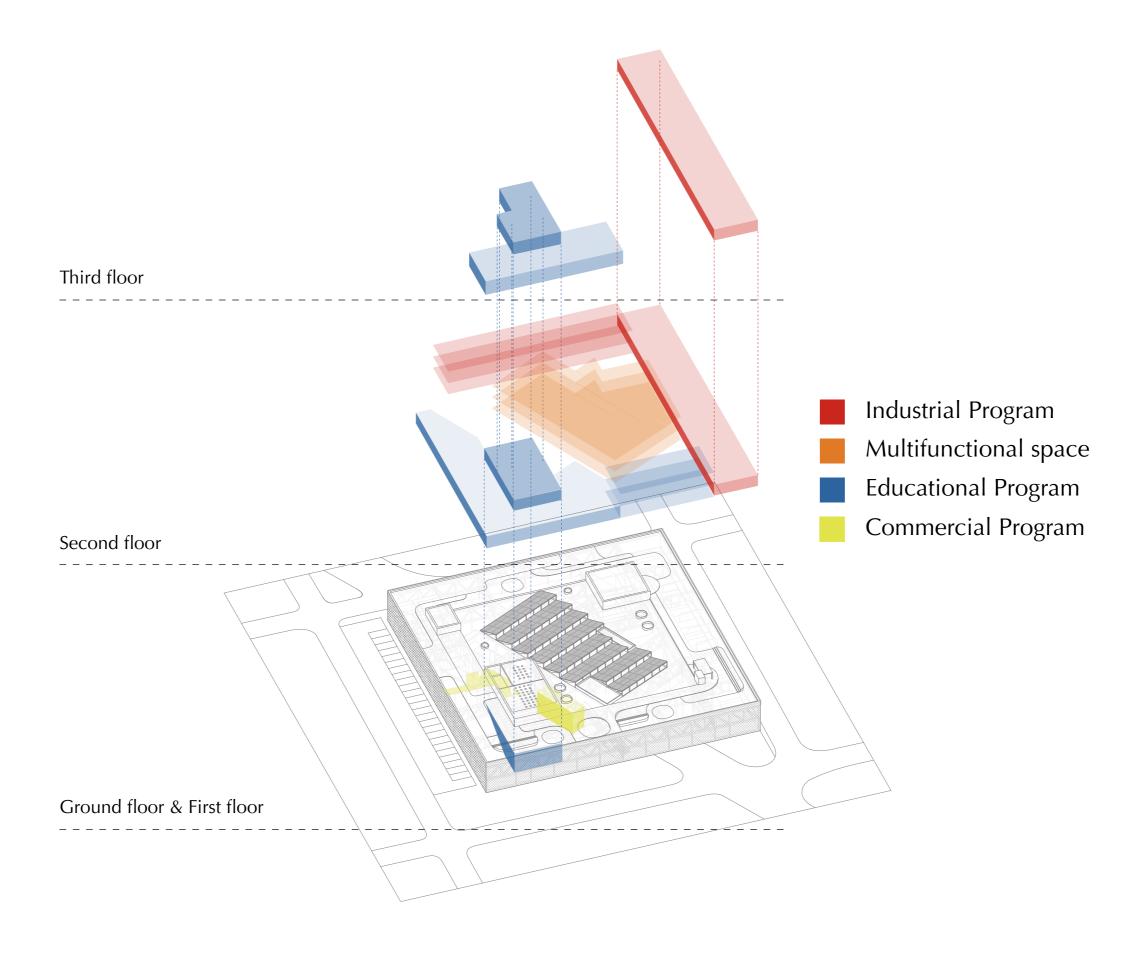
ELEVATION & SECTION

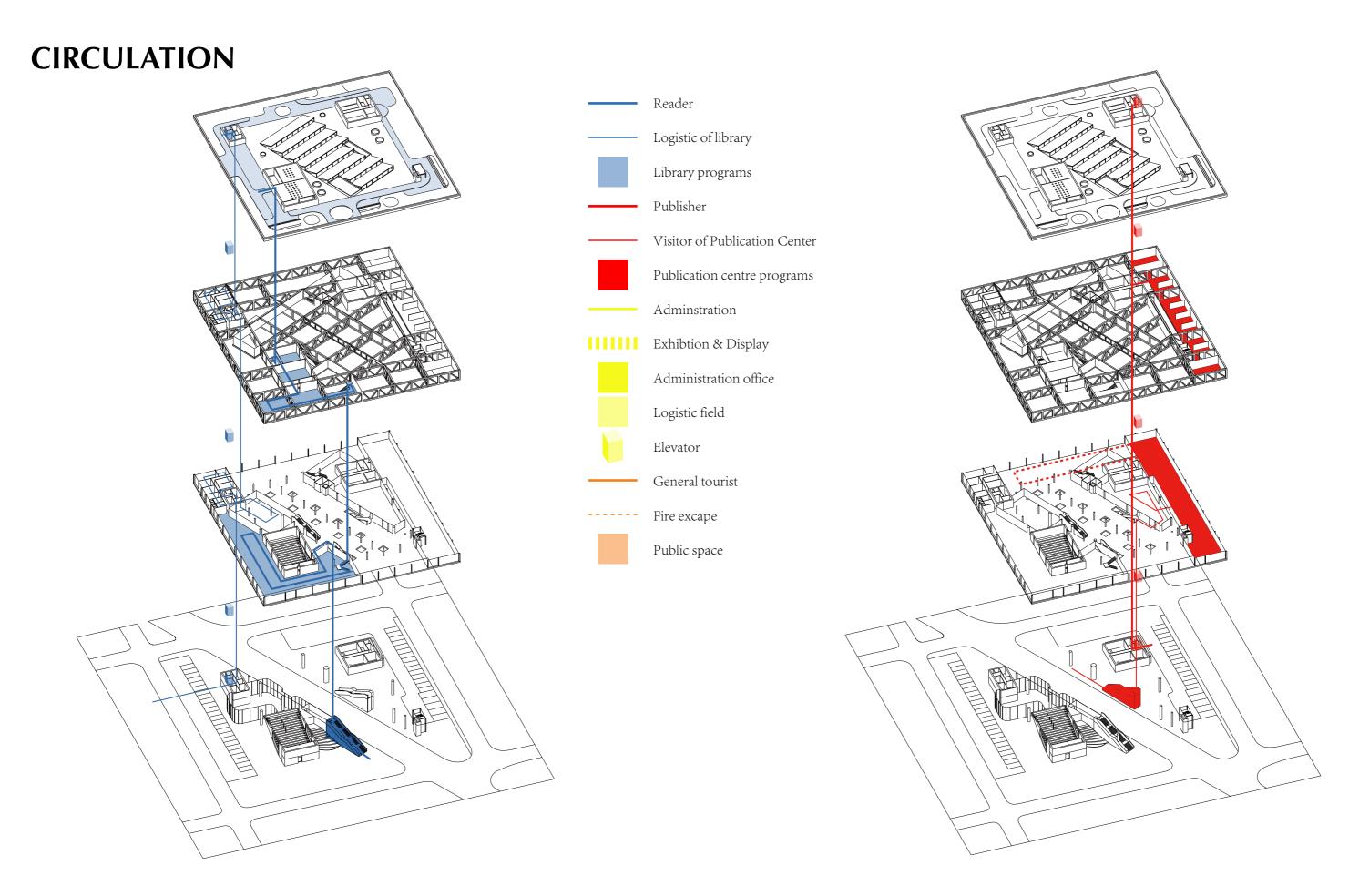


South Facade 1:200



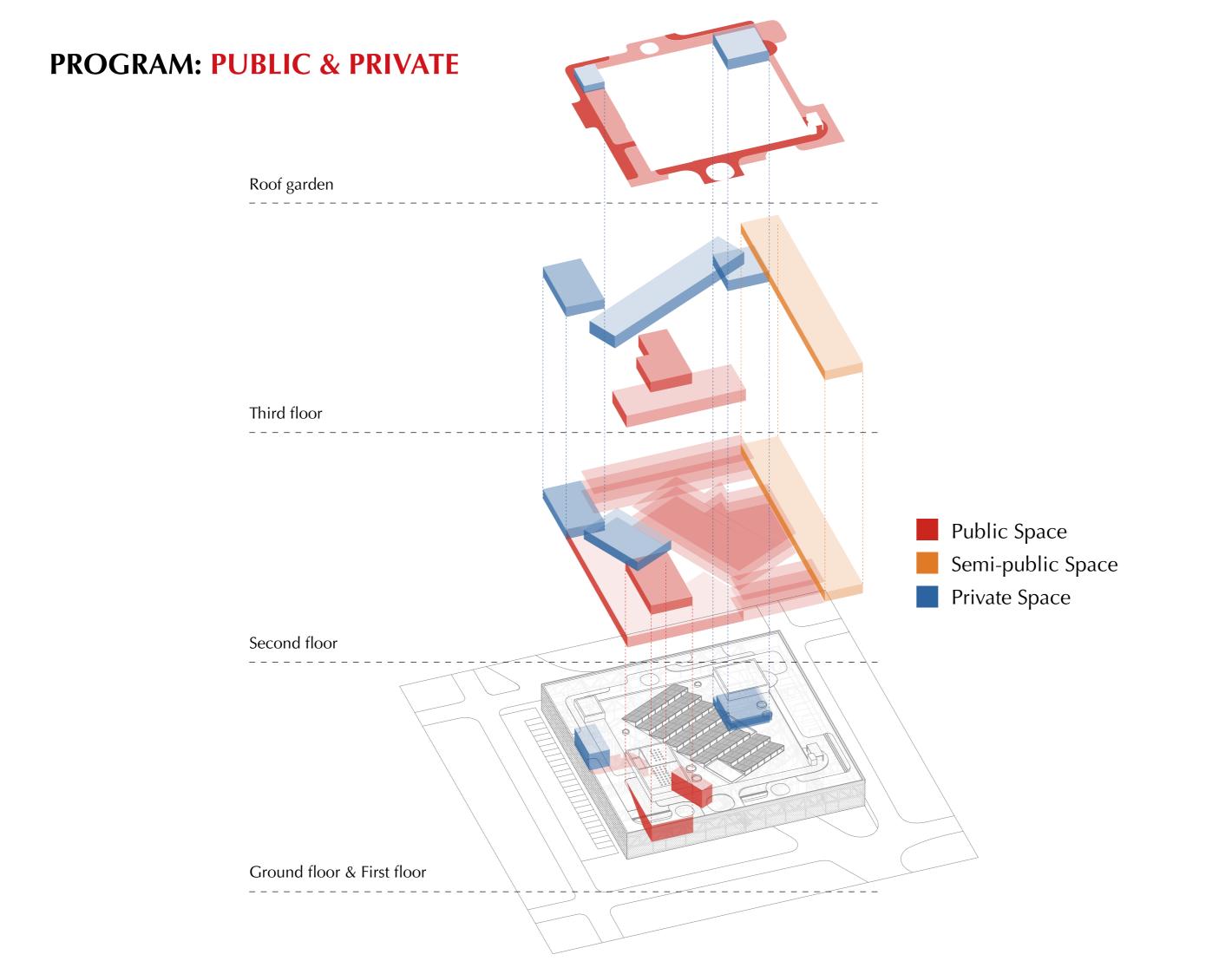
PROGRAM: EDUCATION & INDUSTRY



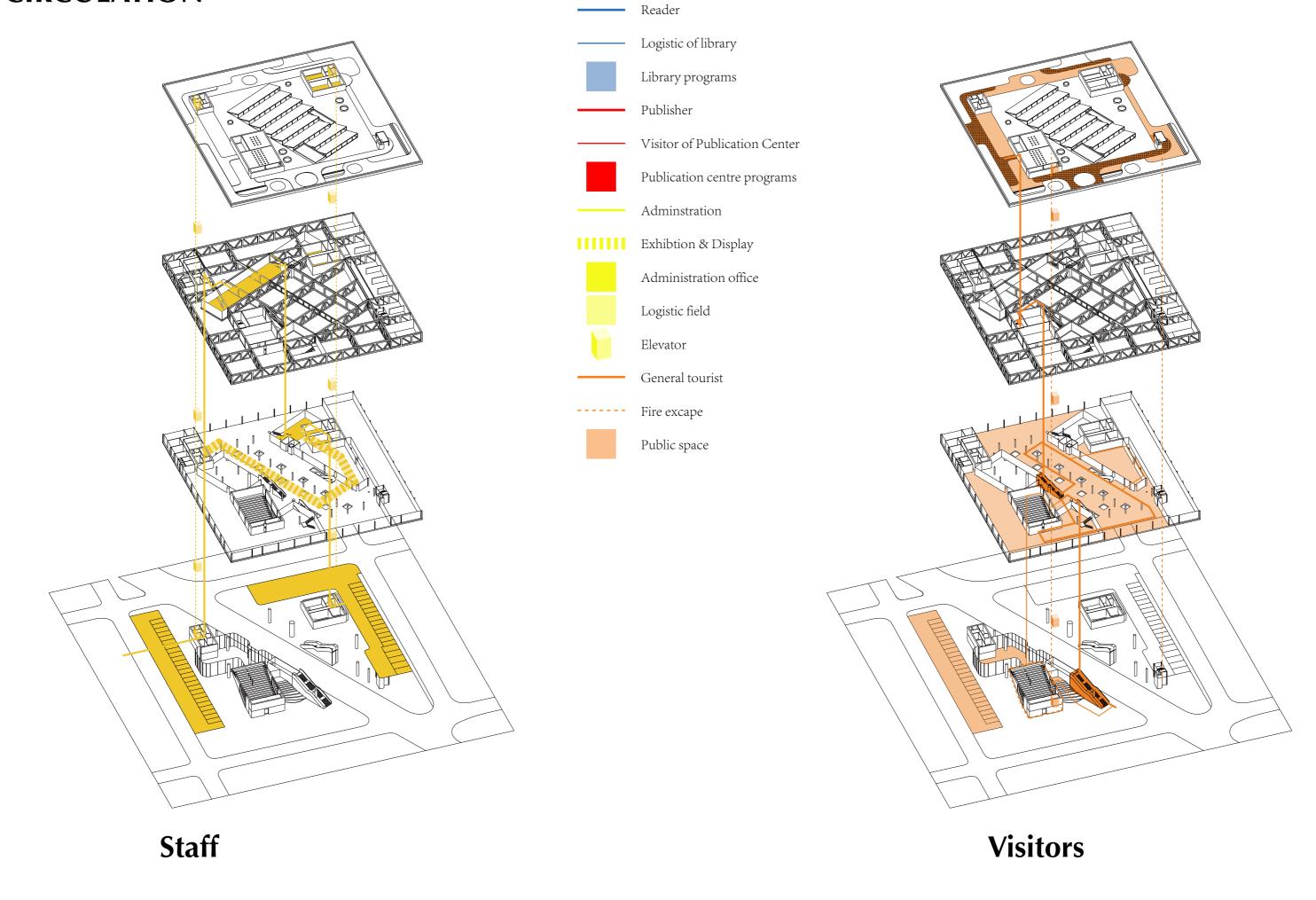


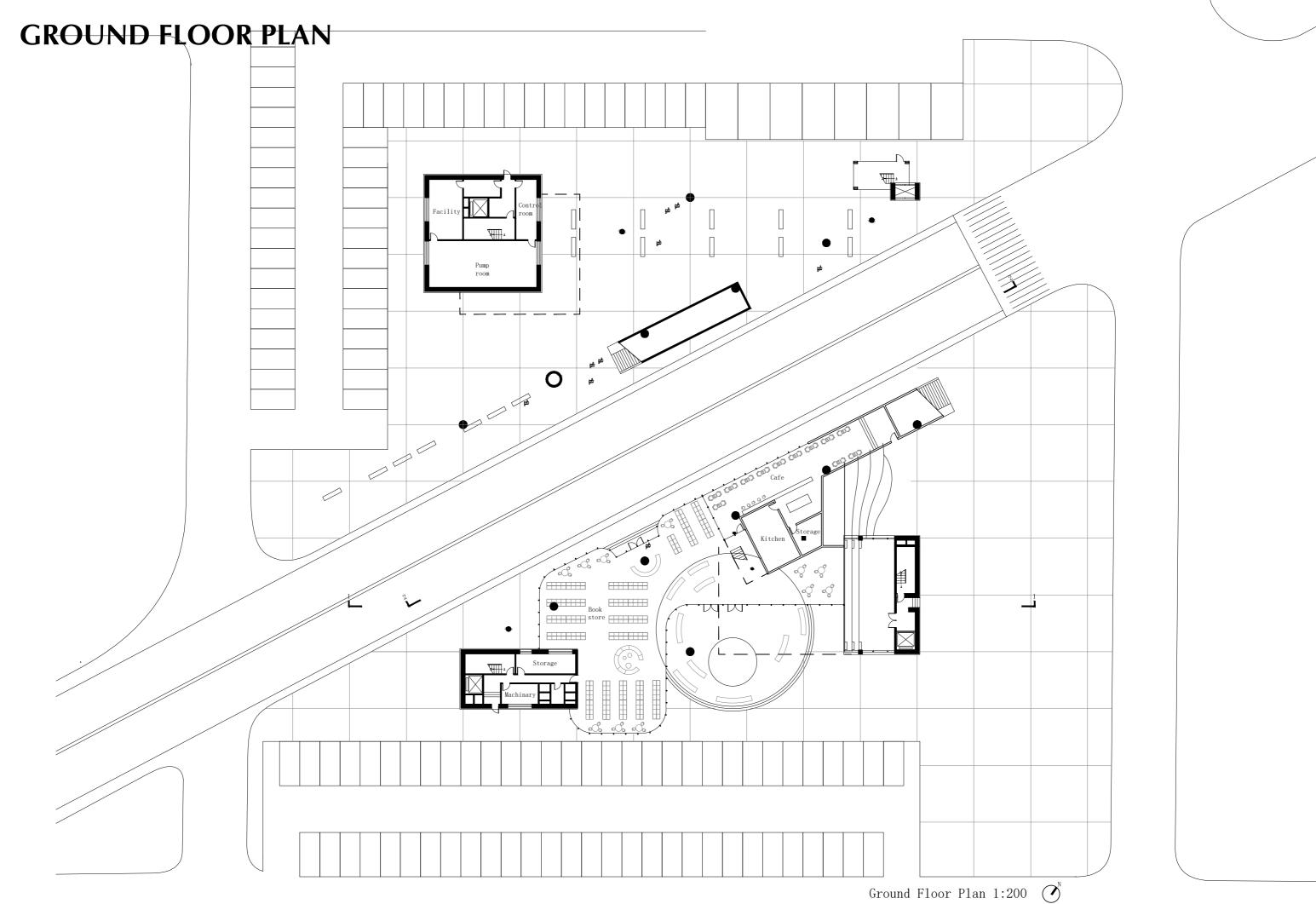
Library

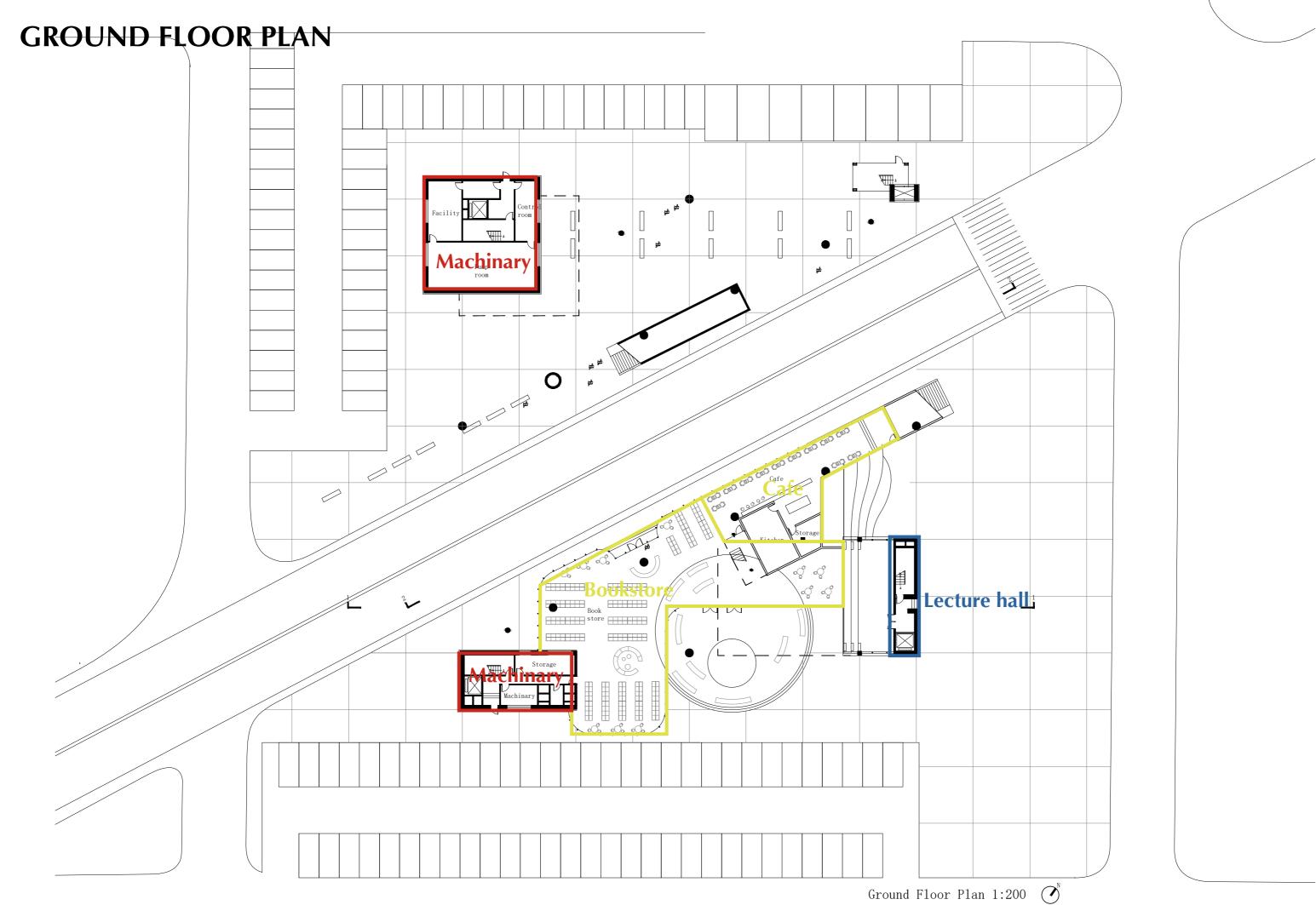
Publication studio



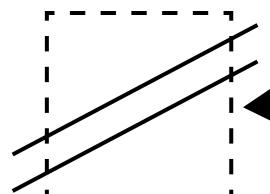
CIRCULATION





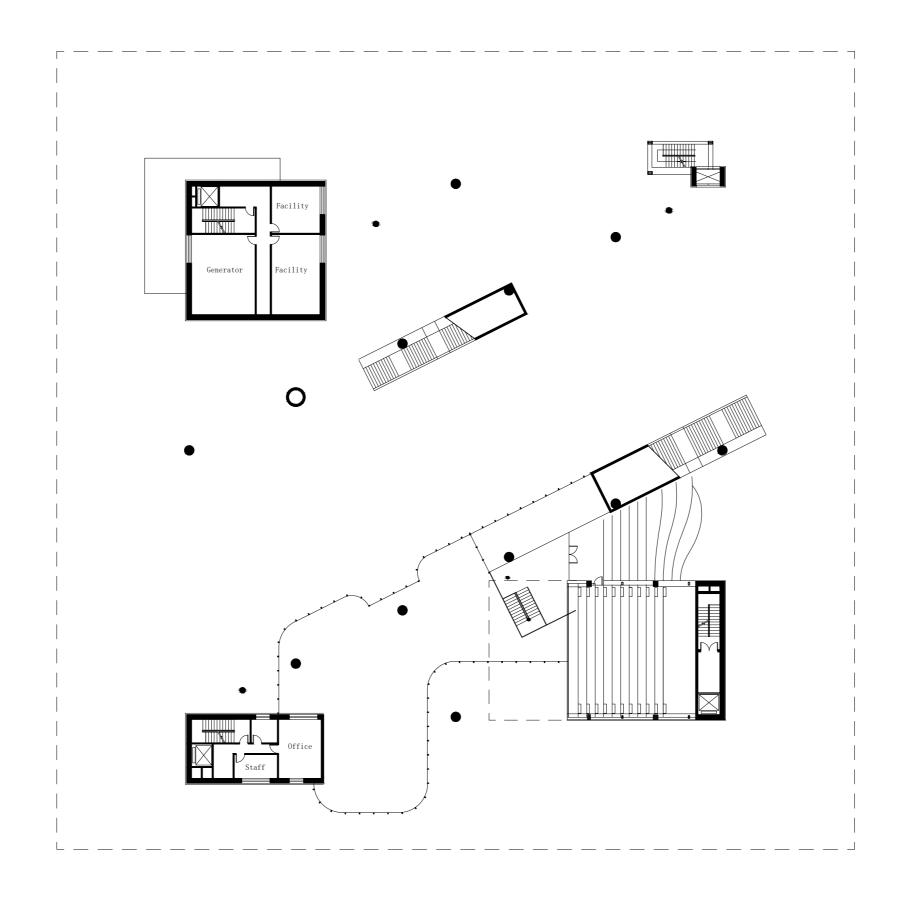


STREET LEVEL MAIN ENTRANCE

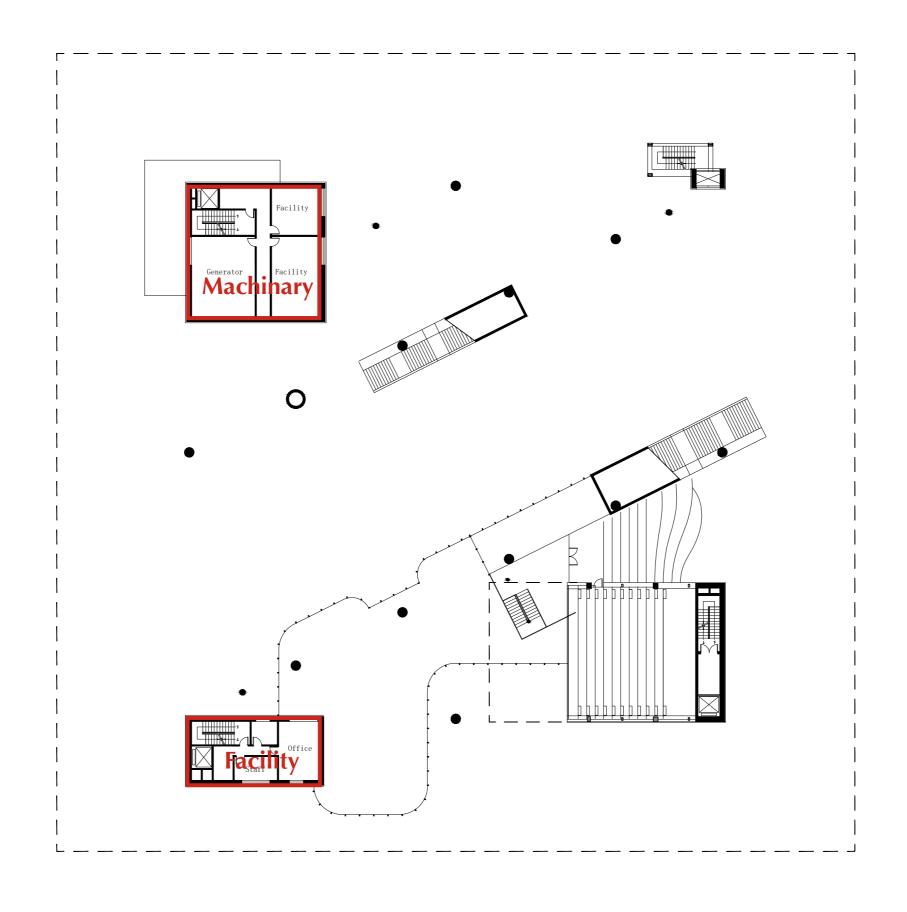




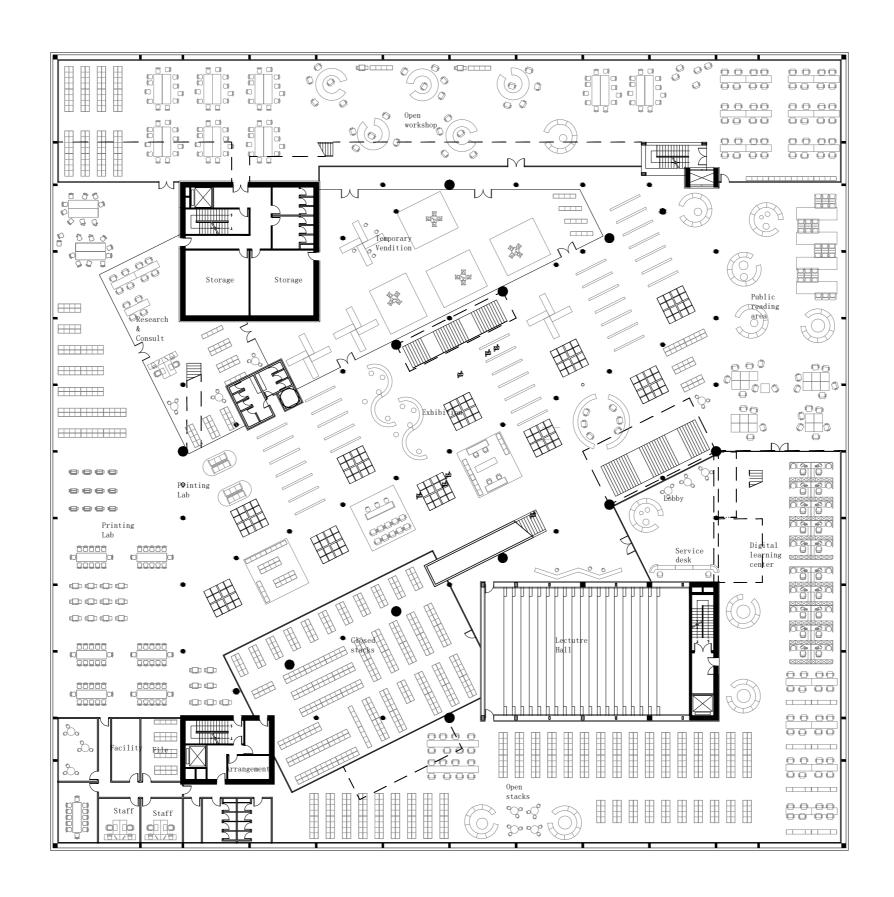
FIRST FLOOR



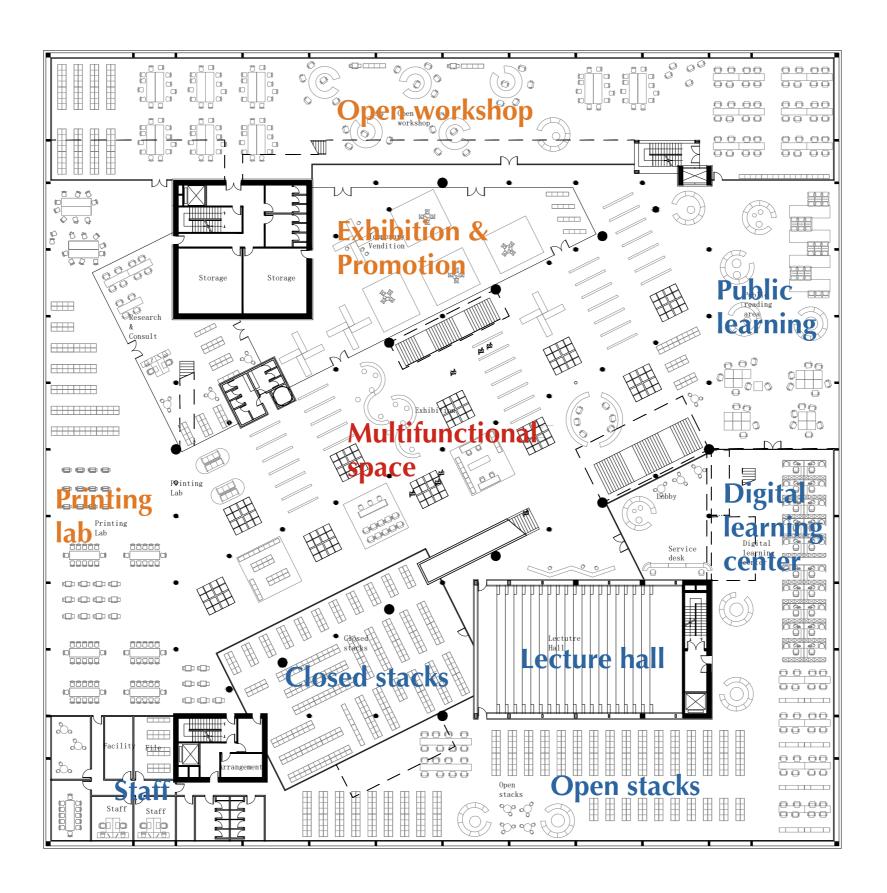
FIRST FLOOR



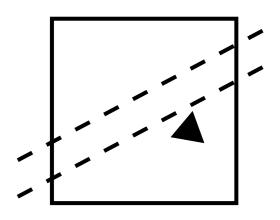
SECOND FLOOR

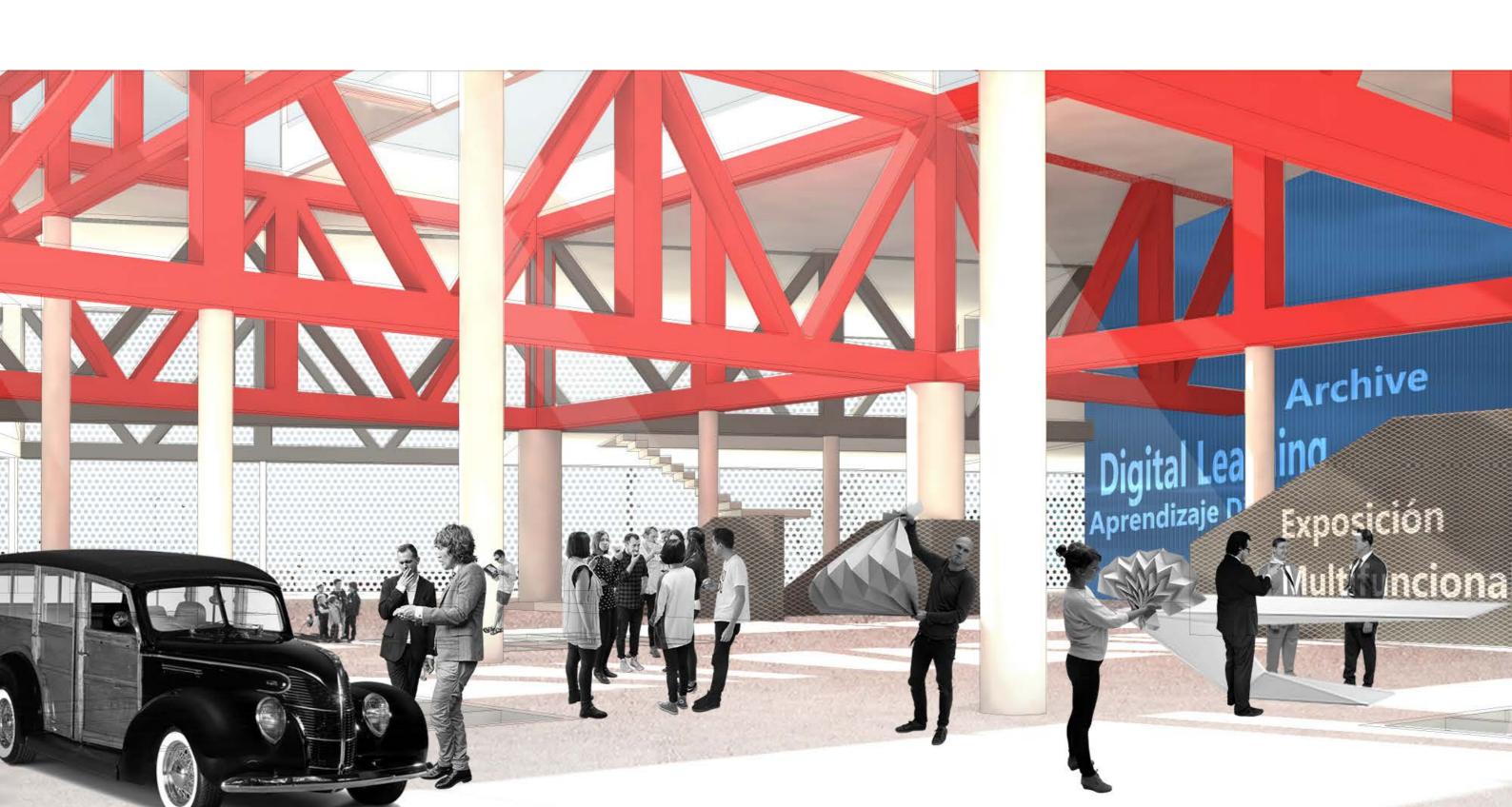


SECOND FLOOR

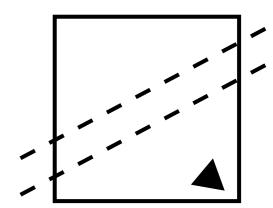


SECOND FLOOR MULTIFUNCTIONAL SPACE



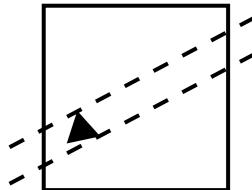


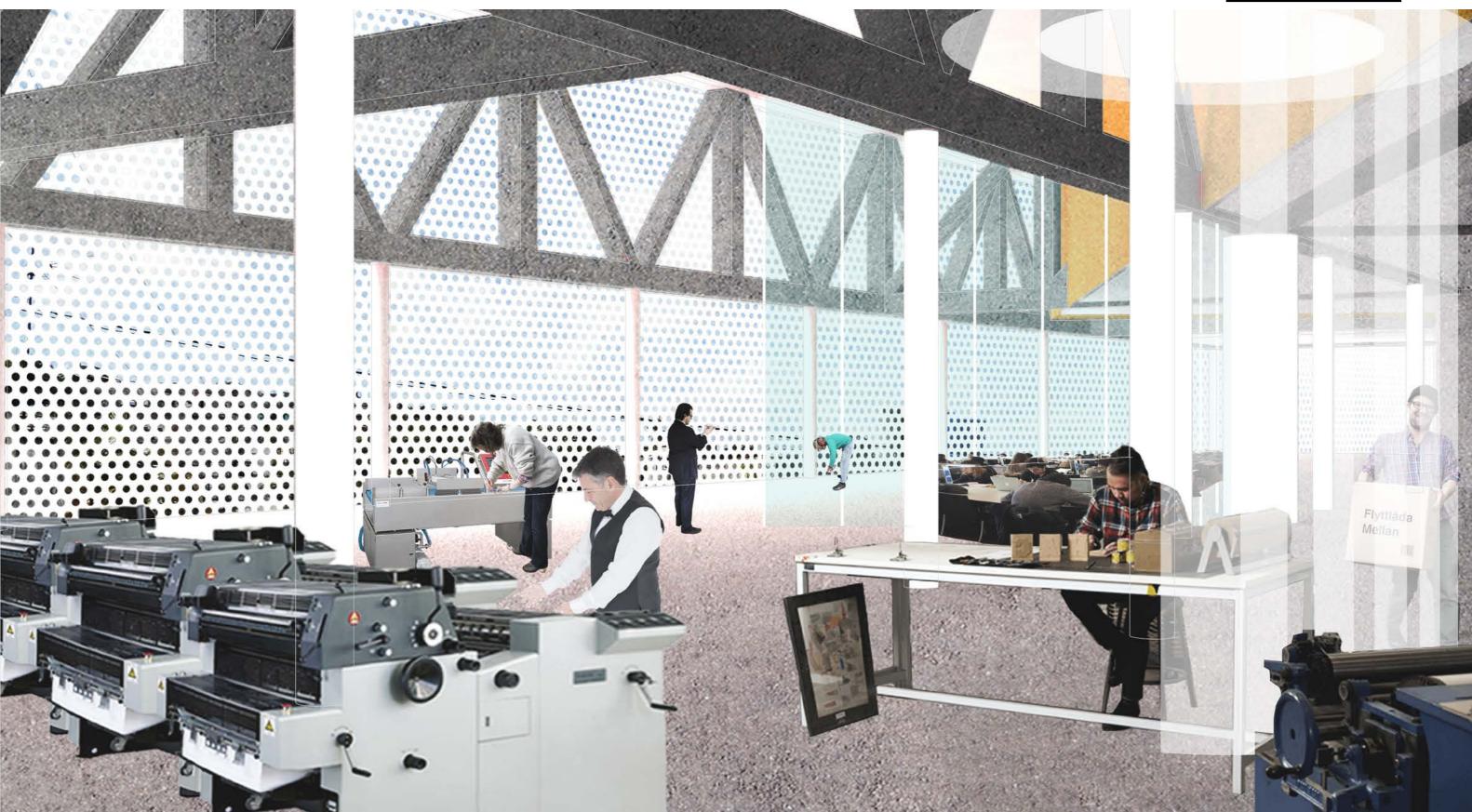
SECOND FLOOR LIBRARY



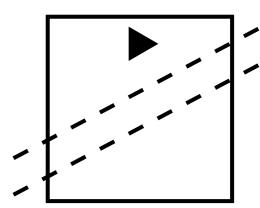


SECOND FLOOR PRINTING LAB



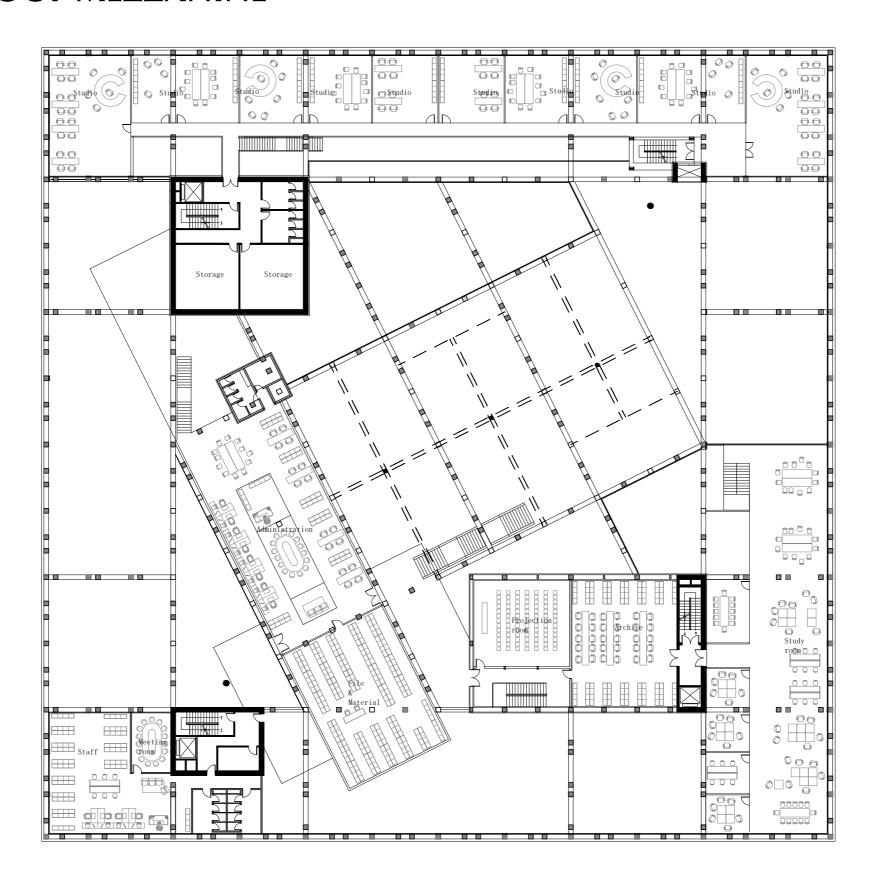


SECOND FLOOR PUBLICATION STUDIO





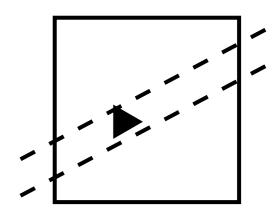
THIRD FLOOR = ROOF MEZZANINE



THIRD FLOOR = ROOF MEZZANINE

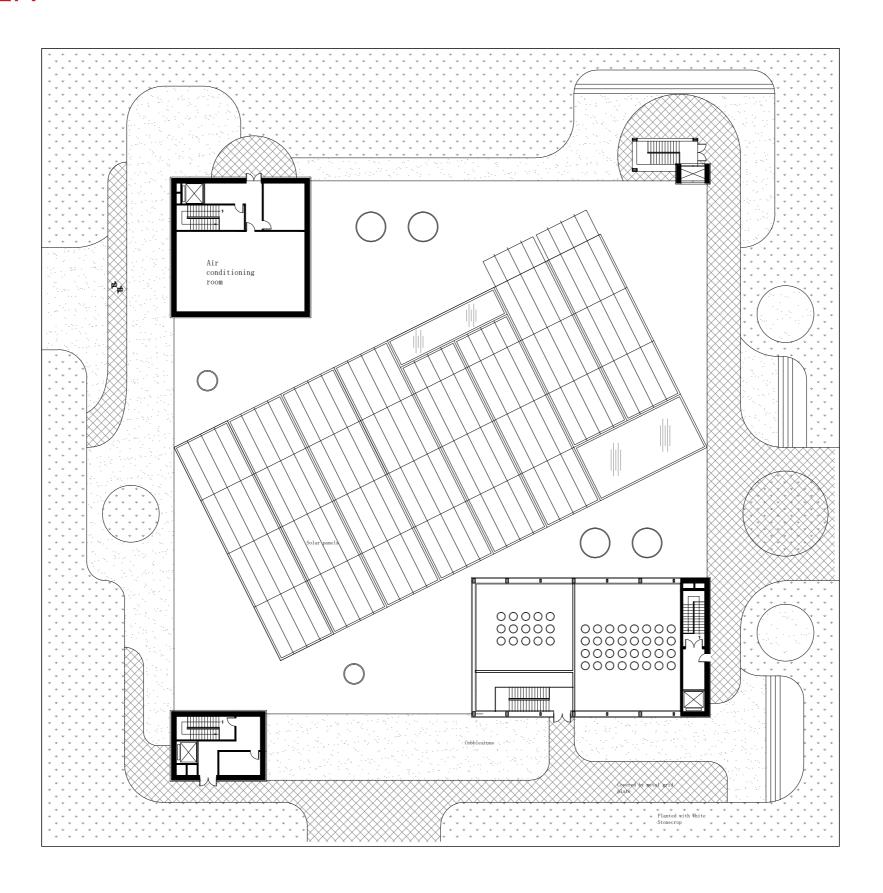


THIRD FLOOR = ROOF MEZZANINE OFFICE

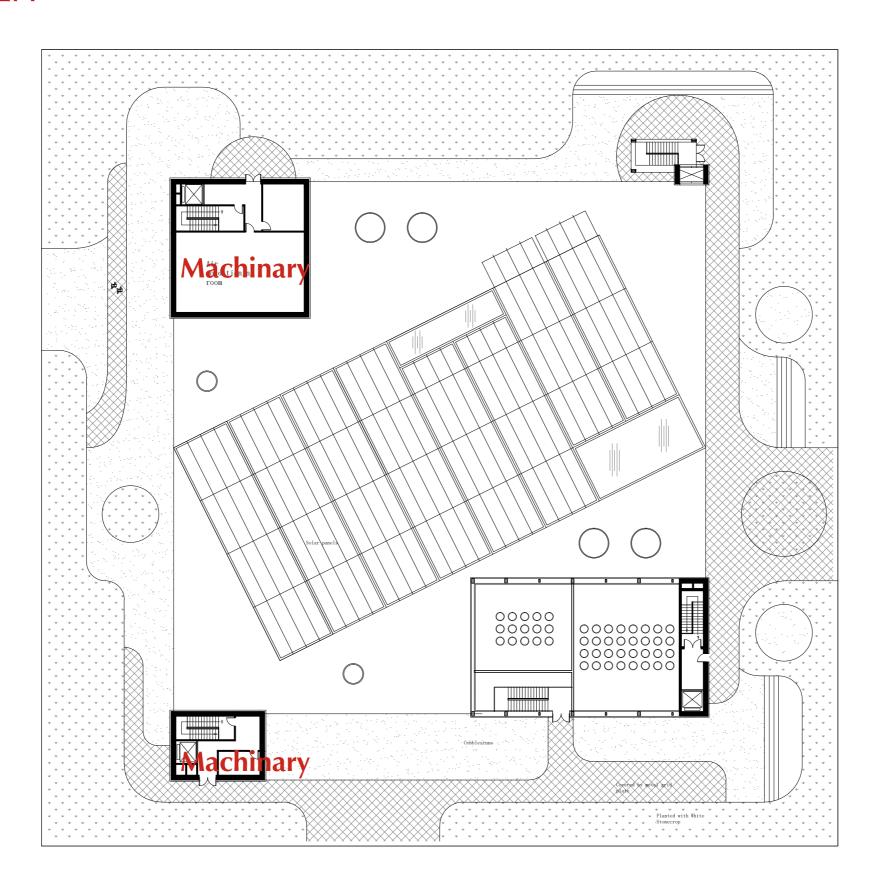




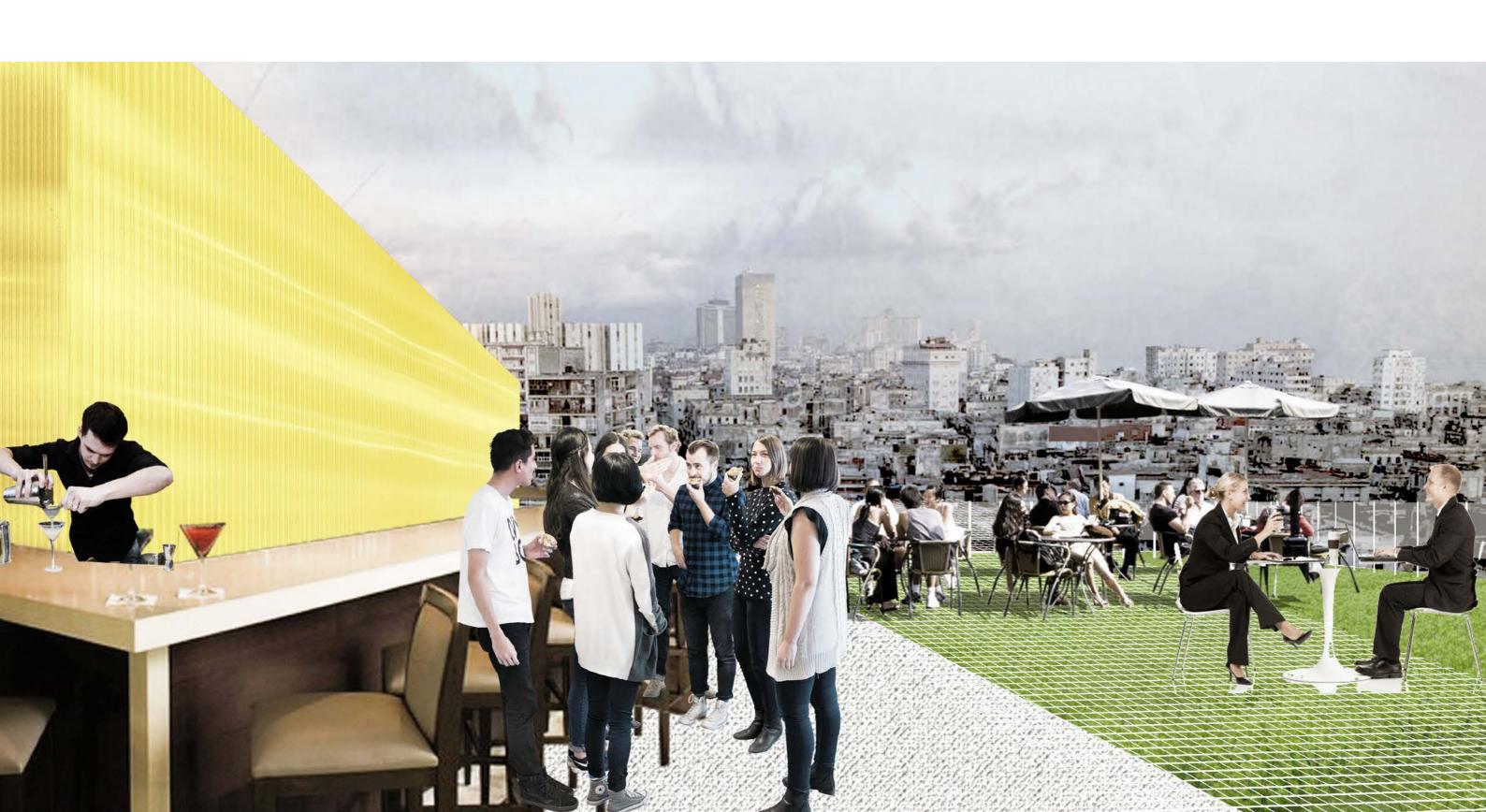
ROOFTOP GARDEN



ROOFTOP GARDEN



ROOFTOP GARDEN

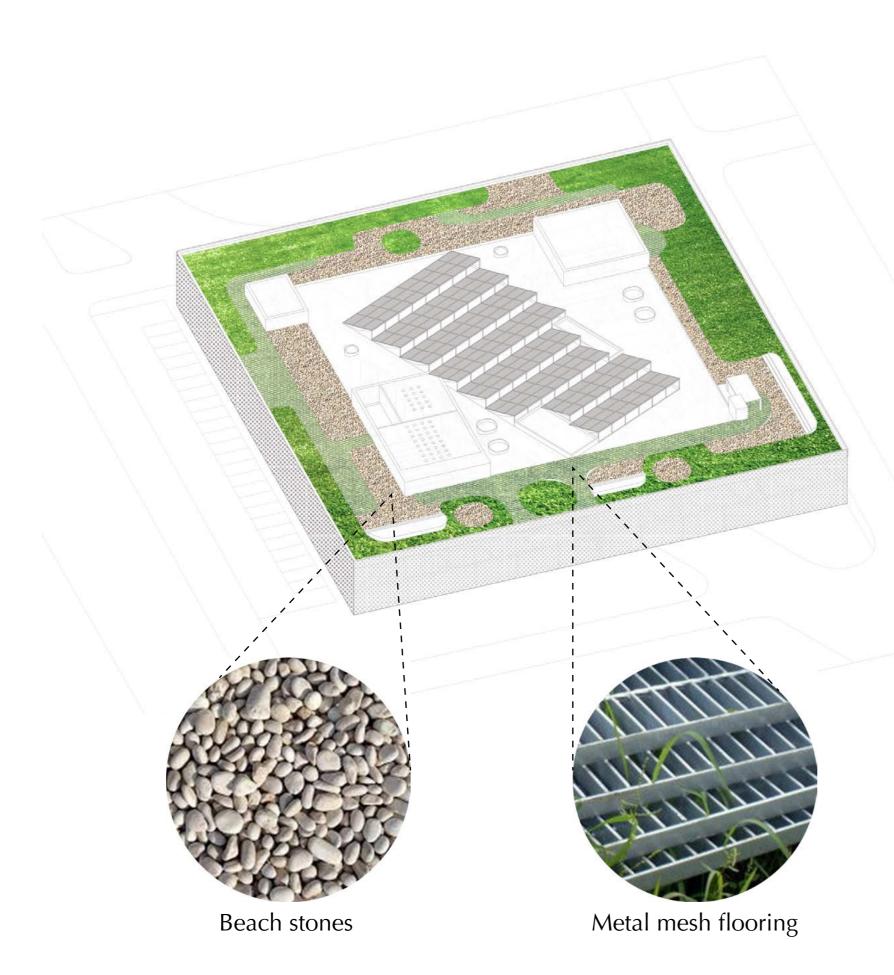


PART 1: RESEARCH INTRODUCTION
PART 2: SITE SELECTION
PART 3: ARCHITECTURE DESIGN

PART 4: SUSTAINABILITY

1. RAINWATER HARVESTING ROOF 2. CLIMATE

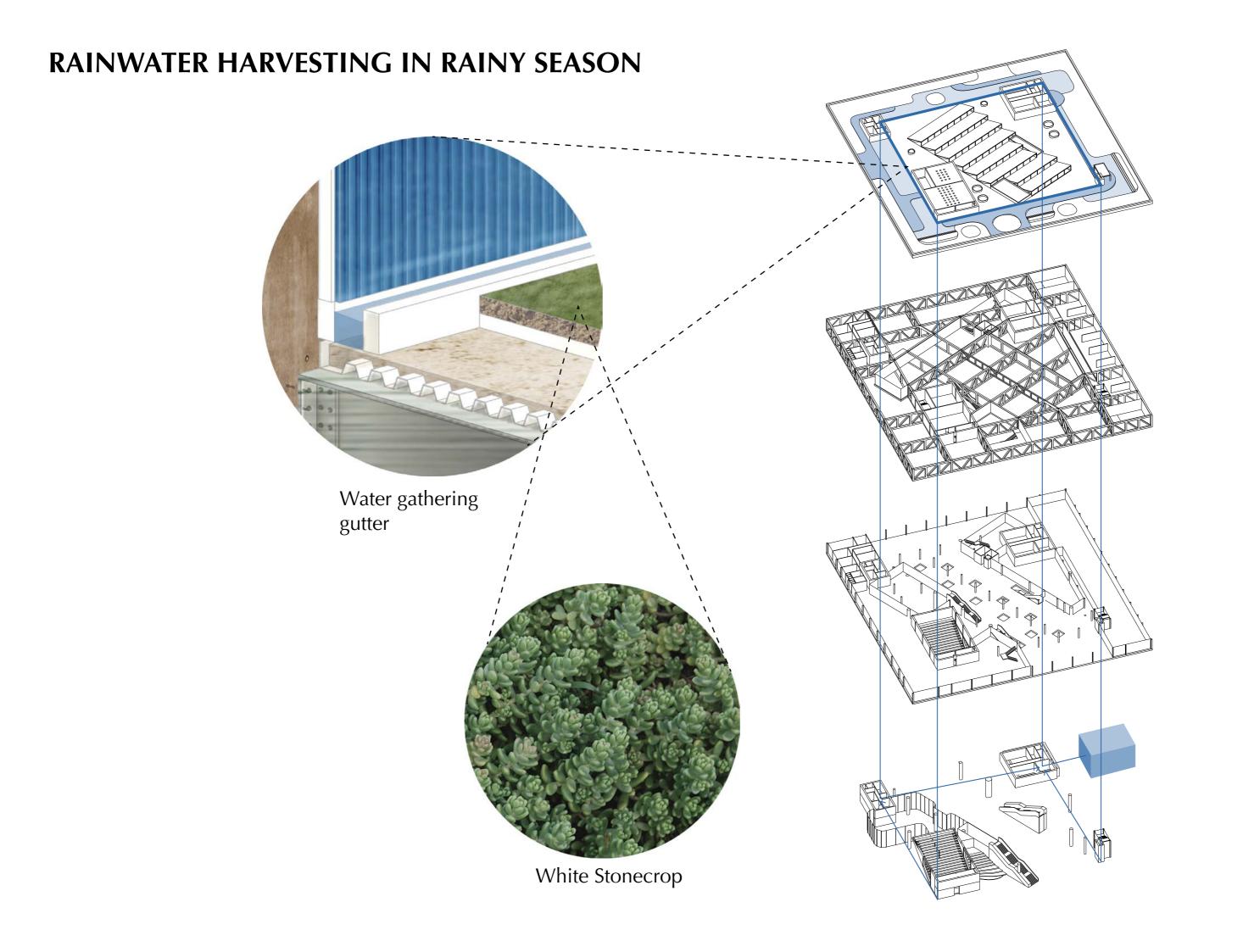
ROOF GARDEN



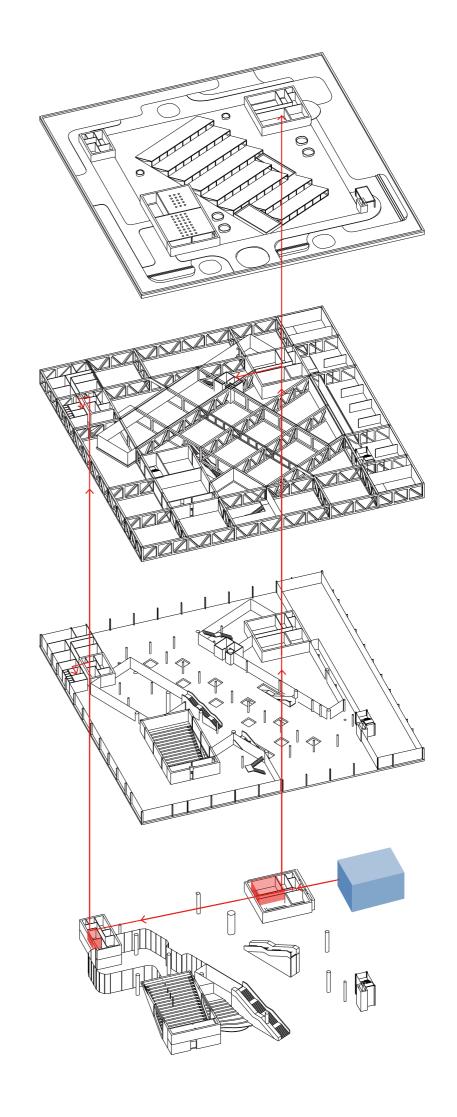
Reference:



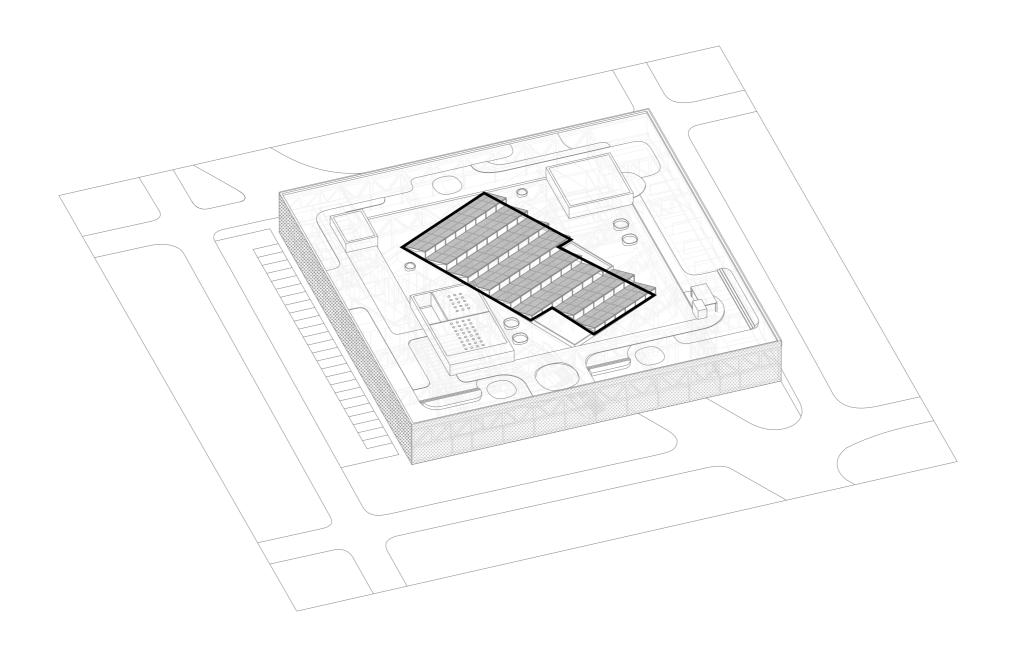
Pattern of garden designed by Roberto Burle Marx

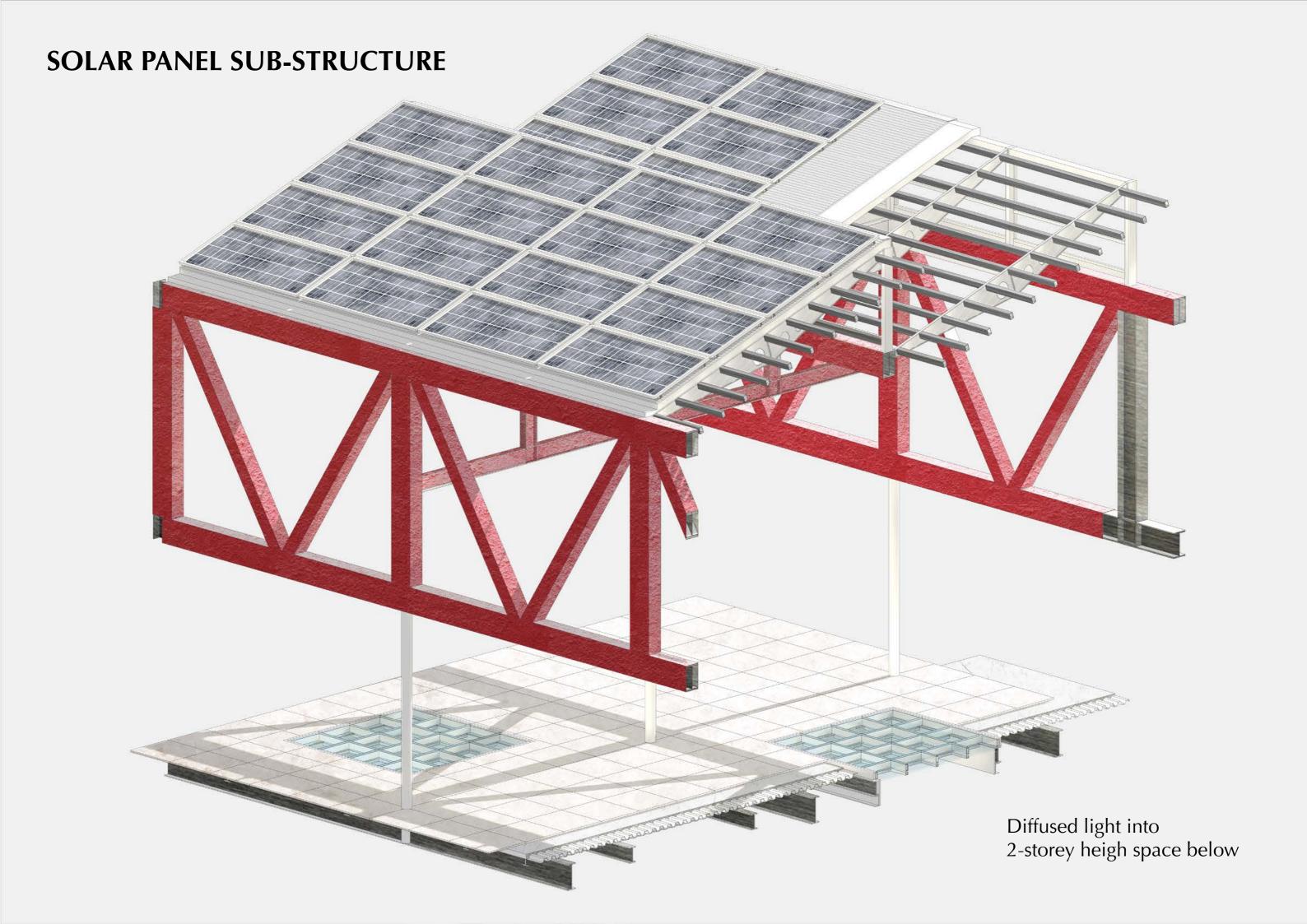


WATER SUPPLY IN DRY SEASON



SOLAR PANELS





CLIMATE Bioclimatic Conditioned Areas

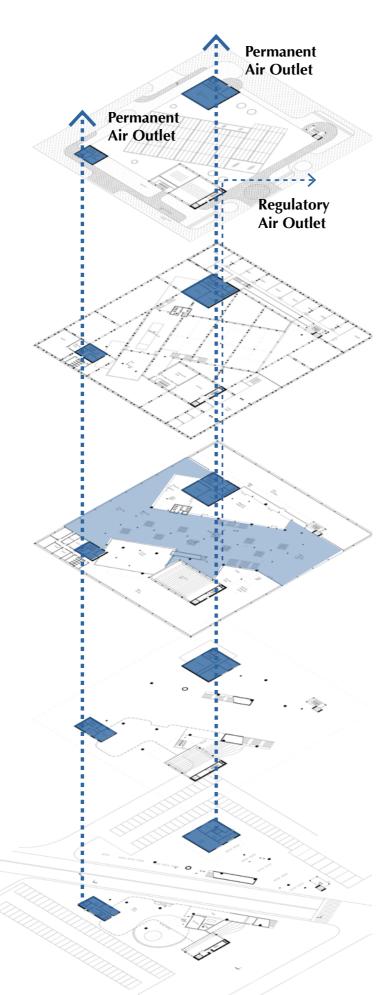
Permanent mechinical ventilation 1413m²

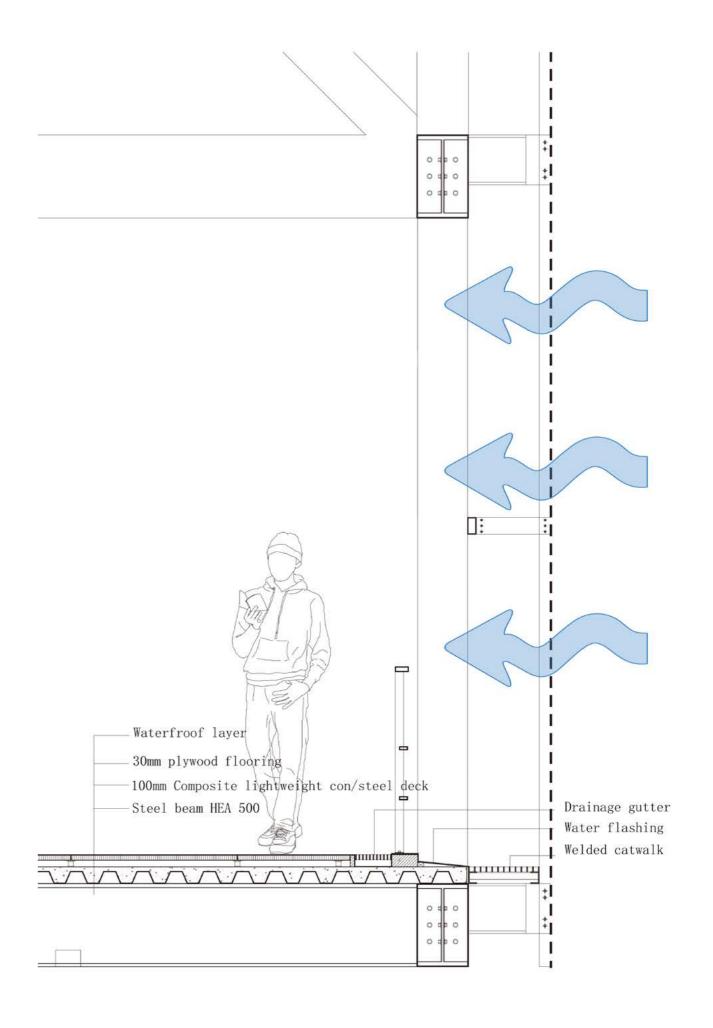
Machinary 600m² Storage & Facility 613m² Others 200m²

Natural ventilation 2063m²

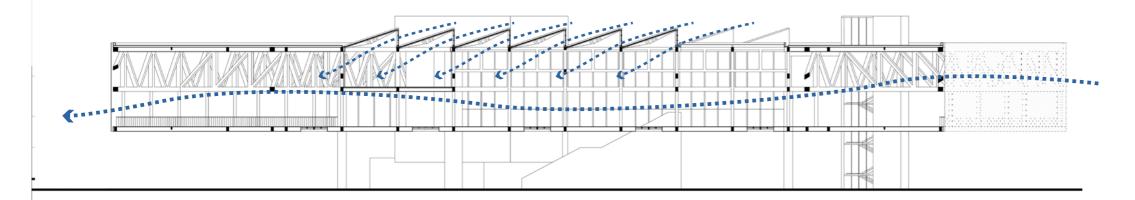
Printing lab 638m²
Multifunctional space 1060m²
Public learning area 365m²

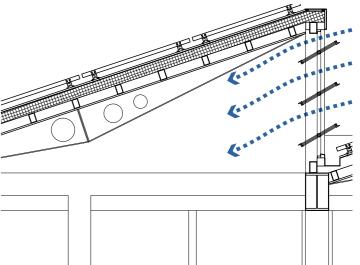
Total area: 3476m²
Percentage of the whole building: 36%



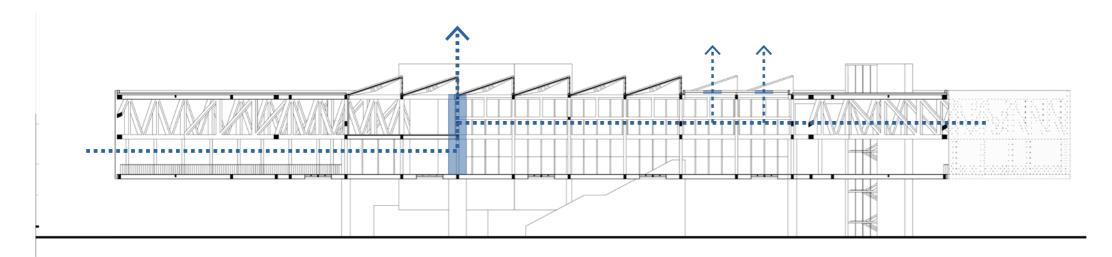


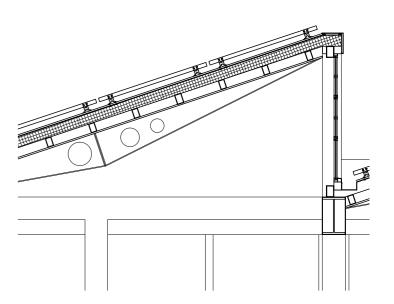
Sunny days: passive ventilation





Rainy days: mechanical ventilation





INTERIOR CLIMATE: Regularity climate areas

Commercial & Leisure 705m²

Book store 550m² Cafe 155m²

Library 2950m²

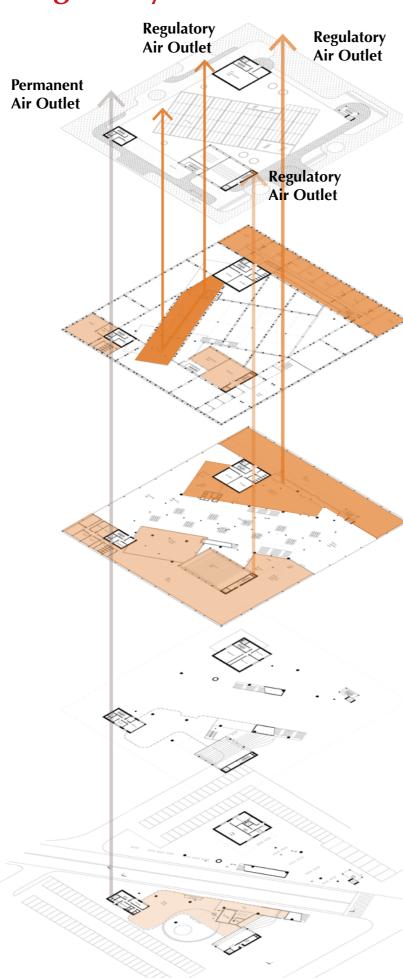
Digital learning 560m²
Open stacks 850m²
Lobby & Service 100m2
Study room 446m2
Closed stacks 410
Staff & Management 325m2
Reference archive 153m2
Projection room 106m2

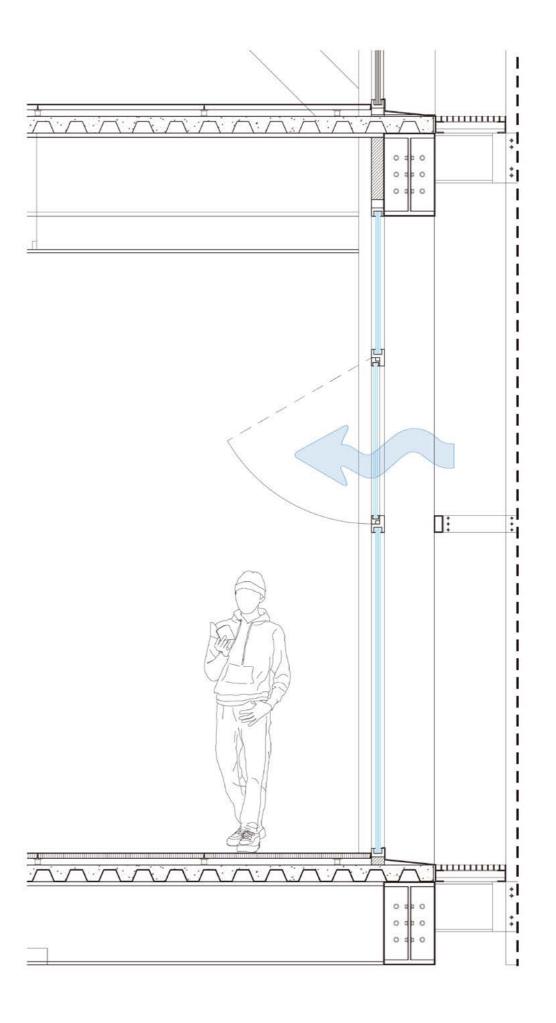
Publication center 1758m²

Promotion & Exhibition 438m² Open workshop 660m² Private studio 660m²

Administration 844m²

Total area: 6275m² Percentage of the whole building: 64%





Air conditioning in summer $(26^{\circ}\text{C} \sim 30^{\circ}\text{C})$

