

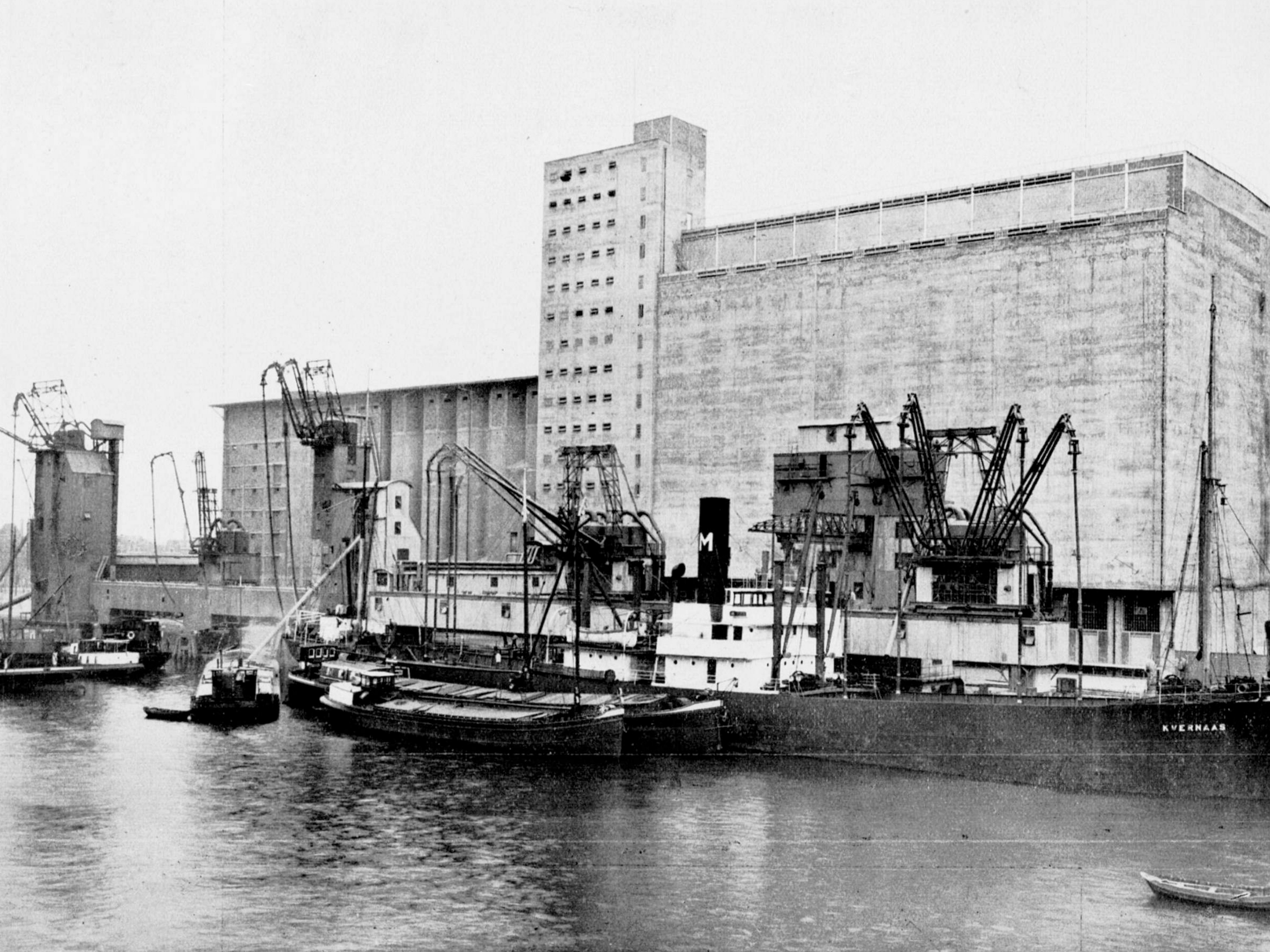


GRADUATION

THE MAASSILO

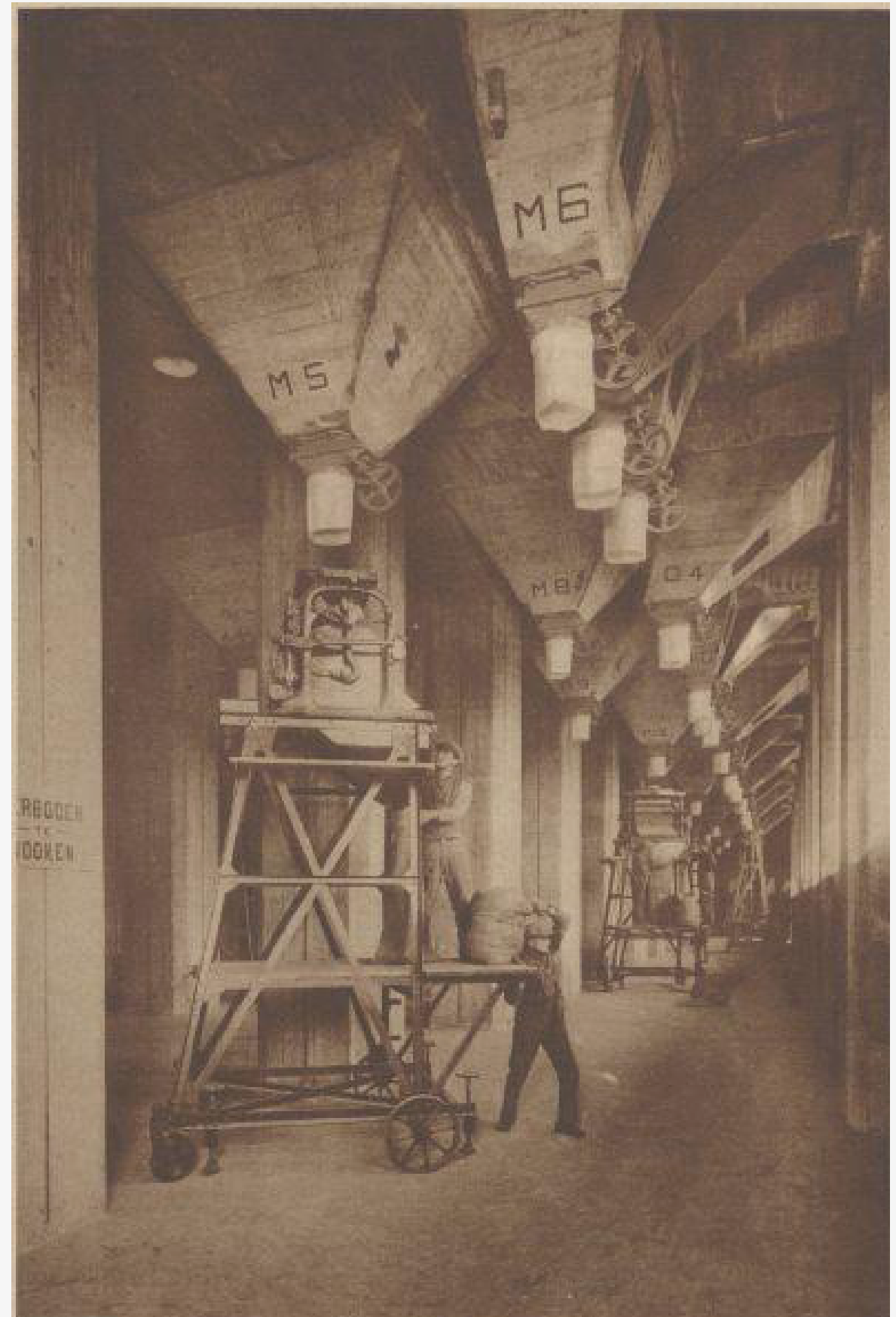
BRAM BRONSWIJK

KVERNAAS



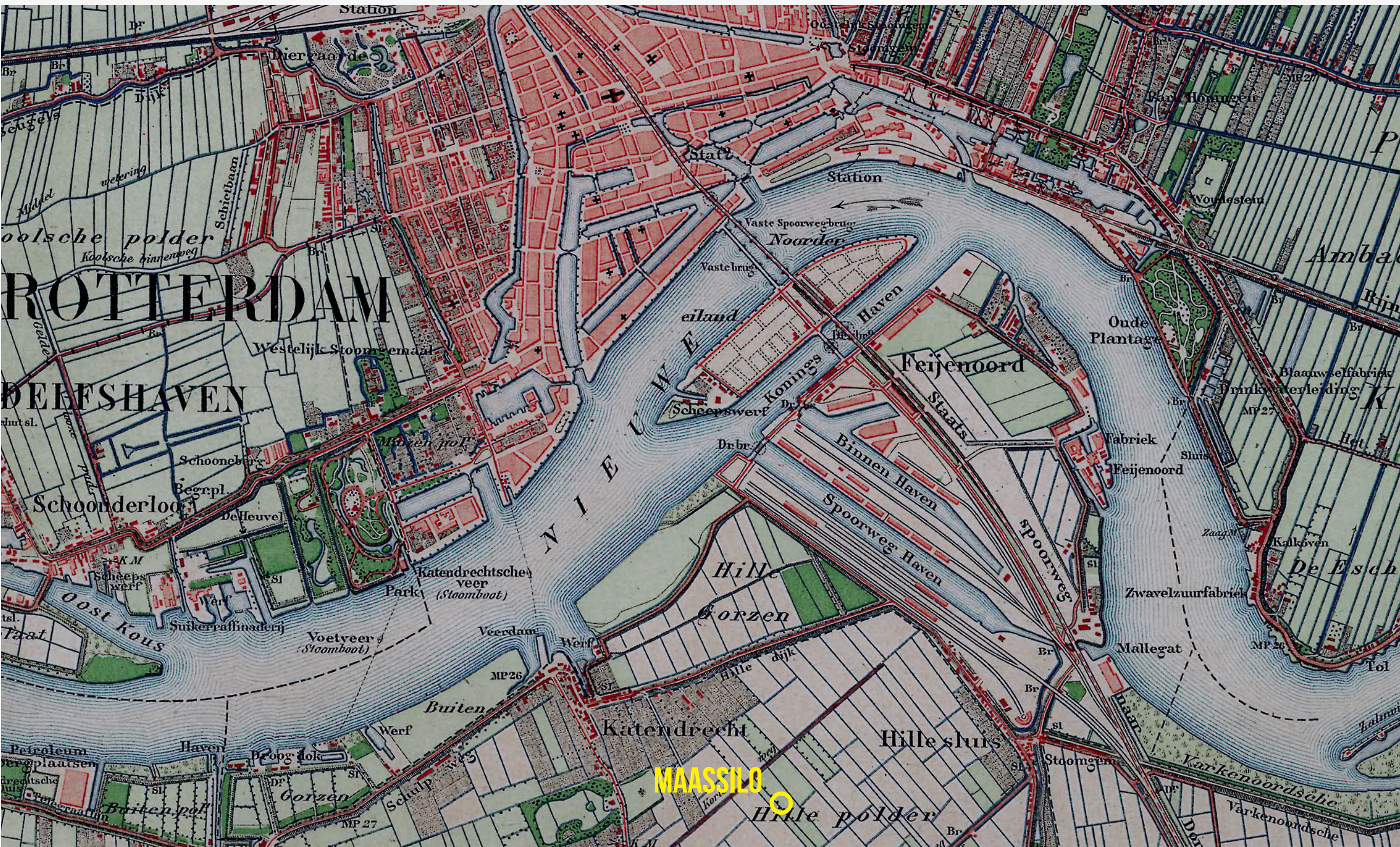
CONTENT OF PRESENTATION

1. Introduction
2. Existing building
Analysis and problem statement
3. Program
What function could fit
4. Values
What defines the character of the building
5. Intervention
Masterplan building
Brinkman
Facade
6. Reflection
What is left to do



PART 1
EXISTING BUILDING

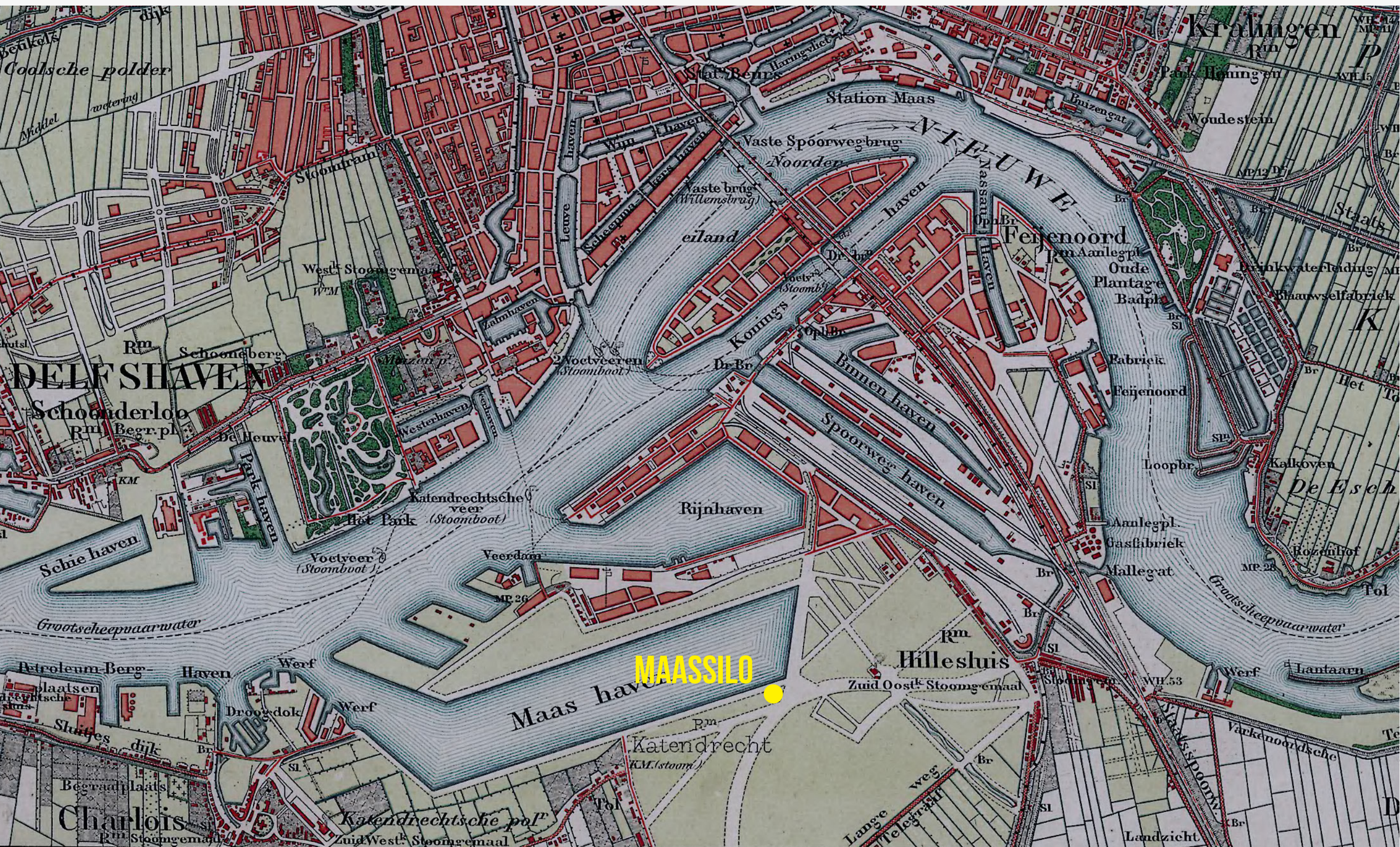




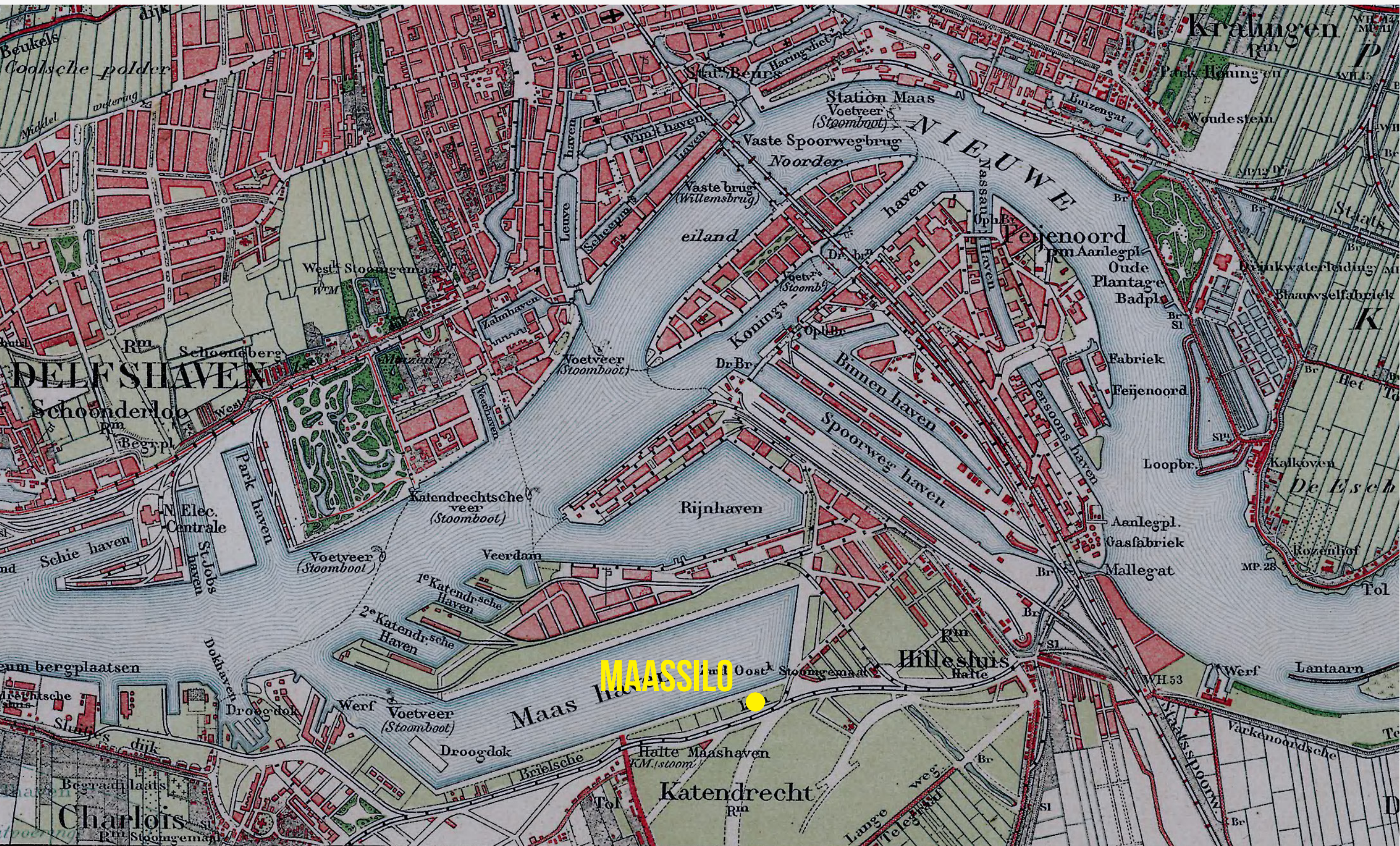
1880



1896



1901

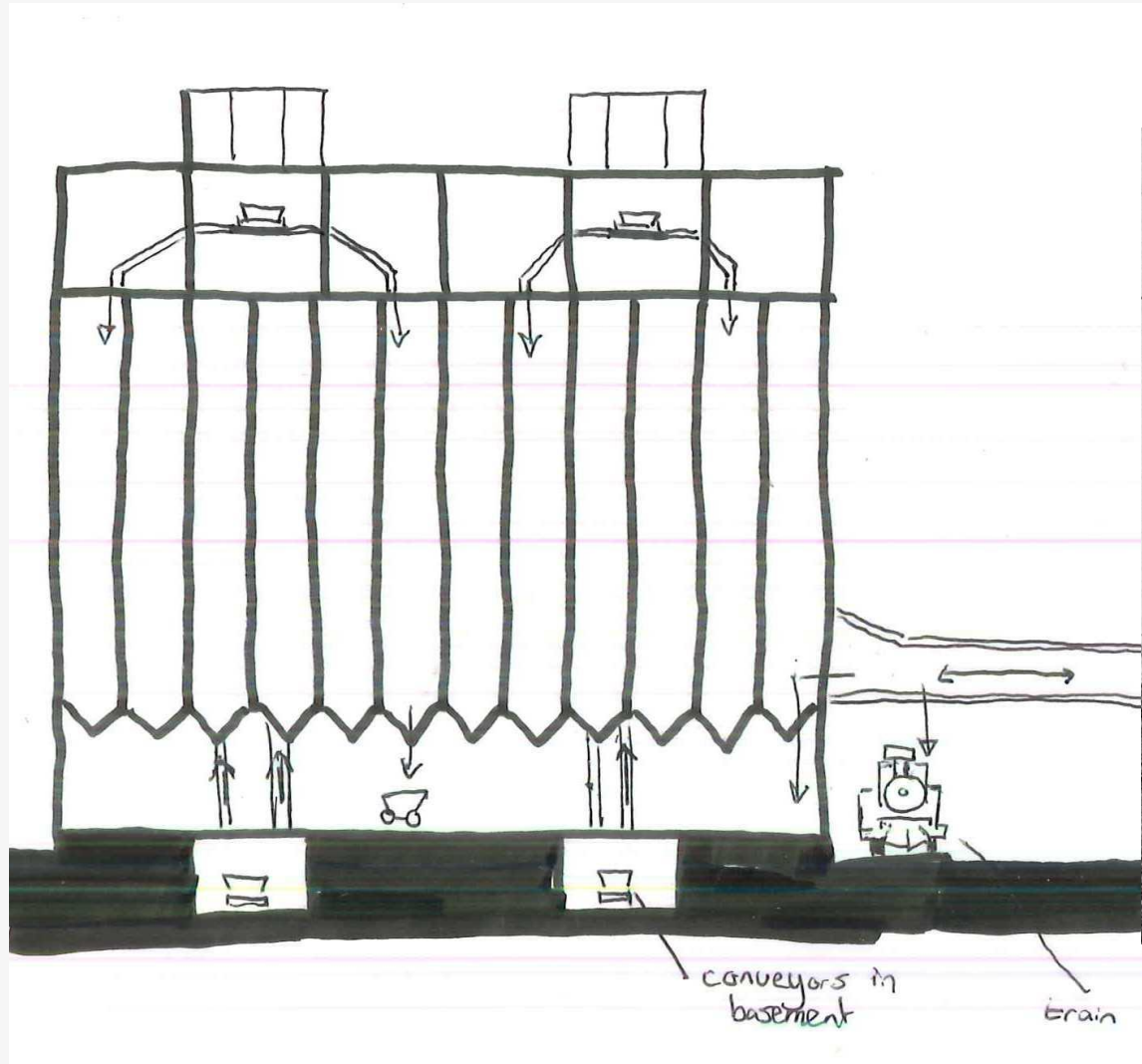


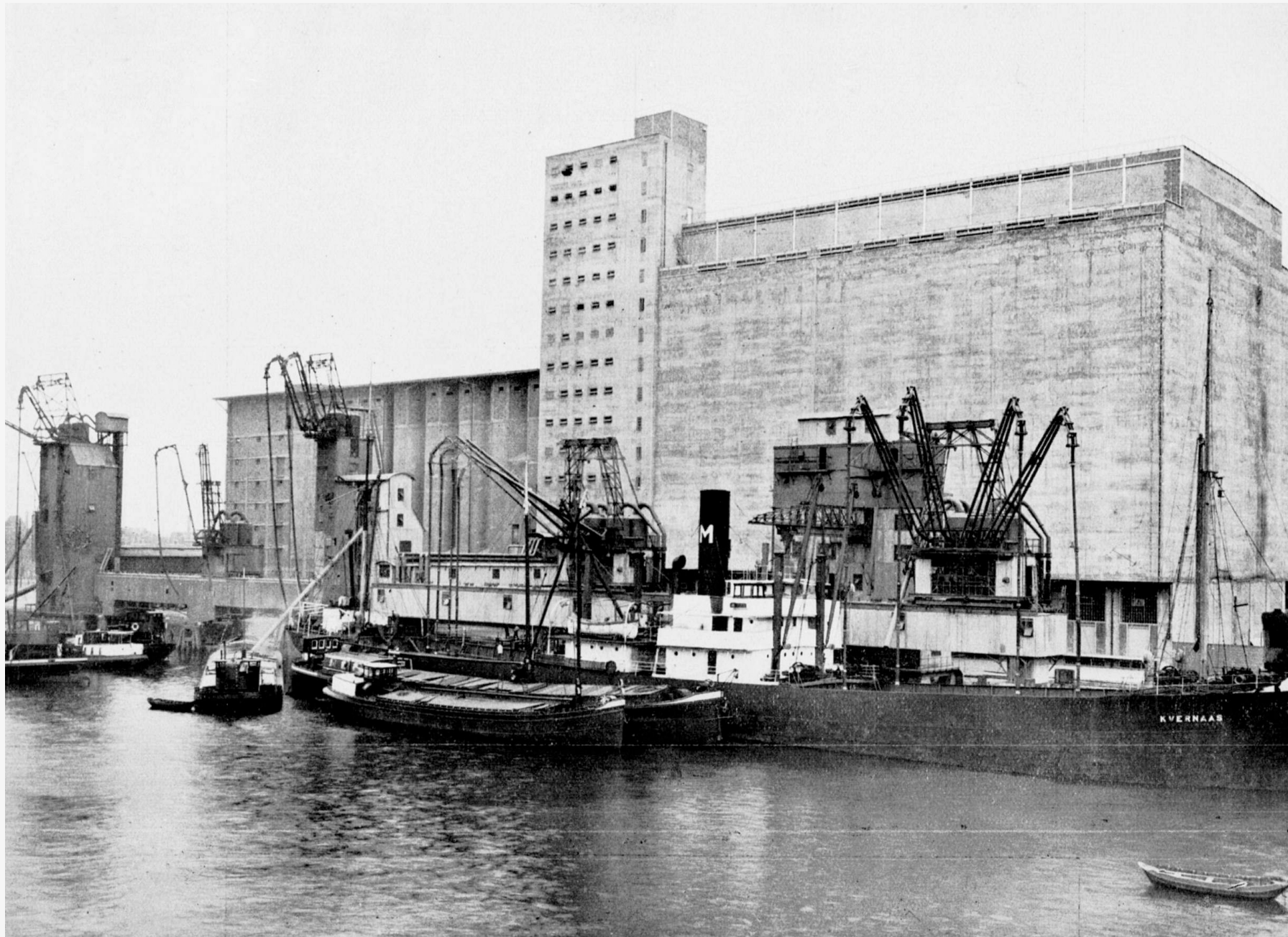
1910



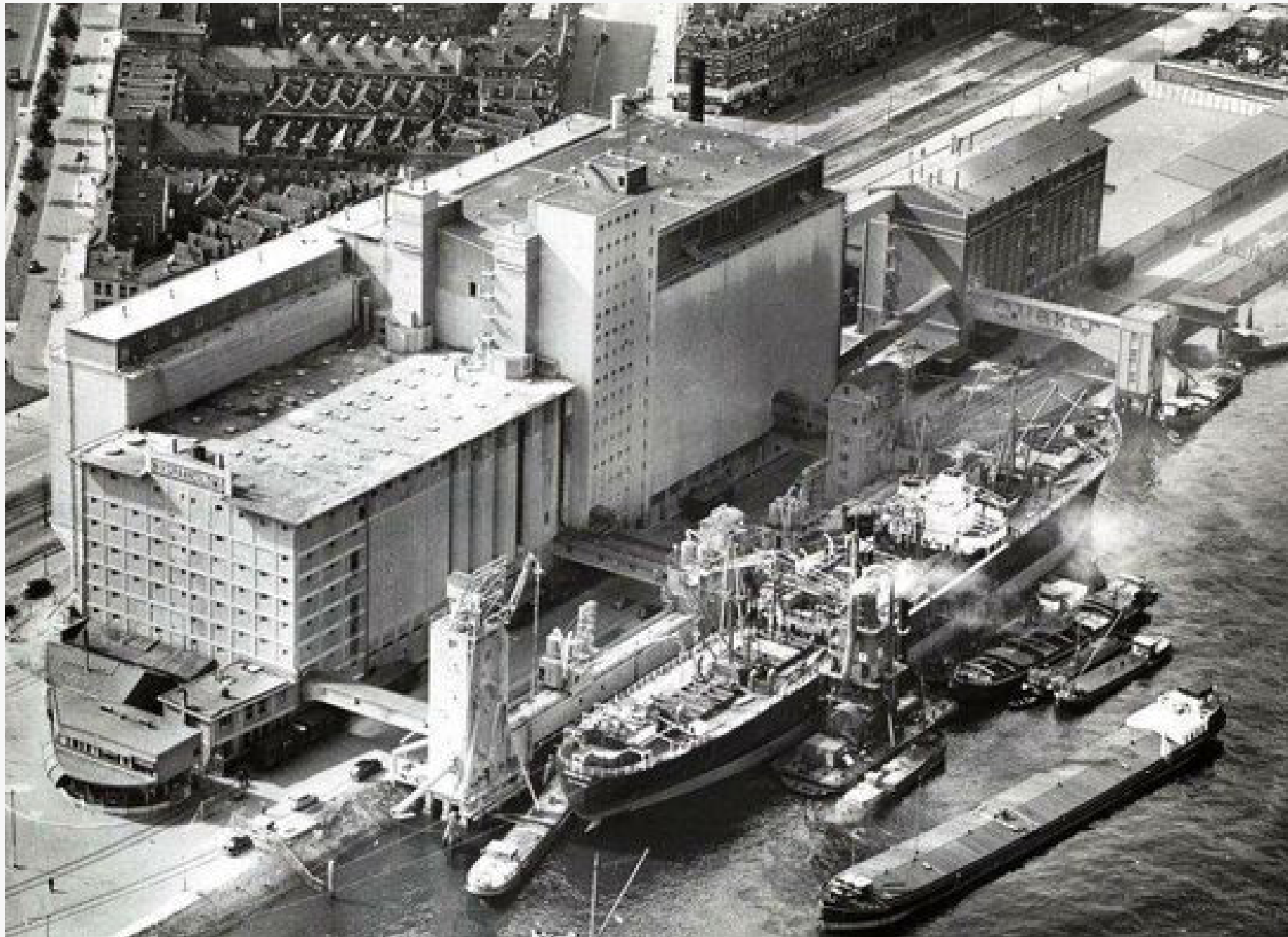
1911

First part of the Maassilo was built

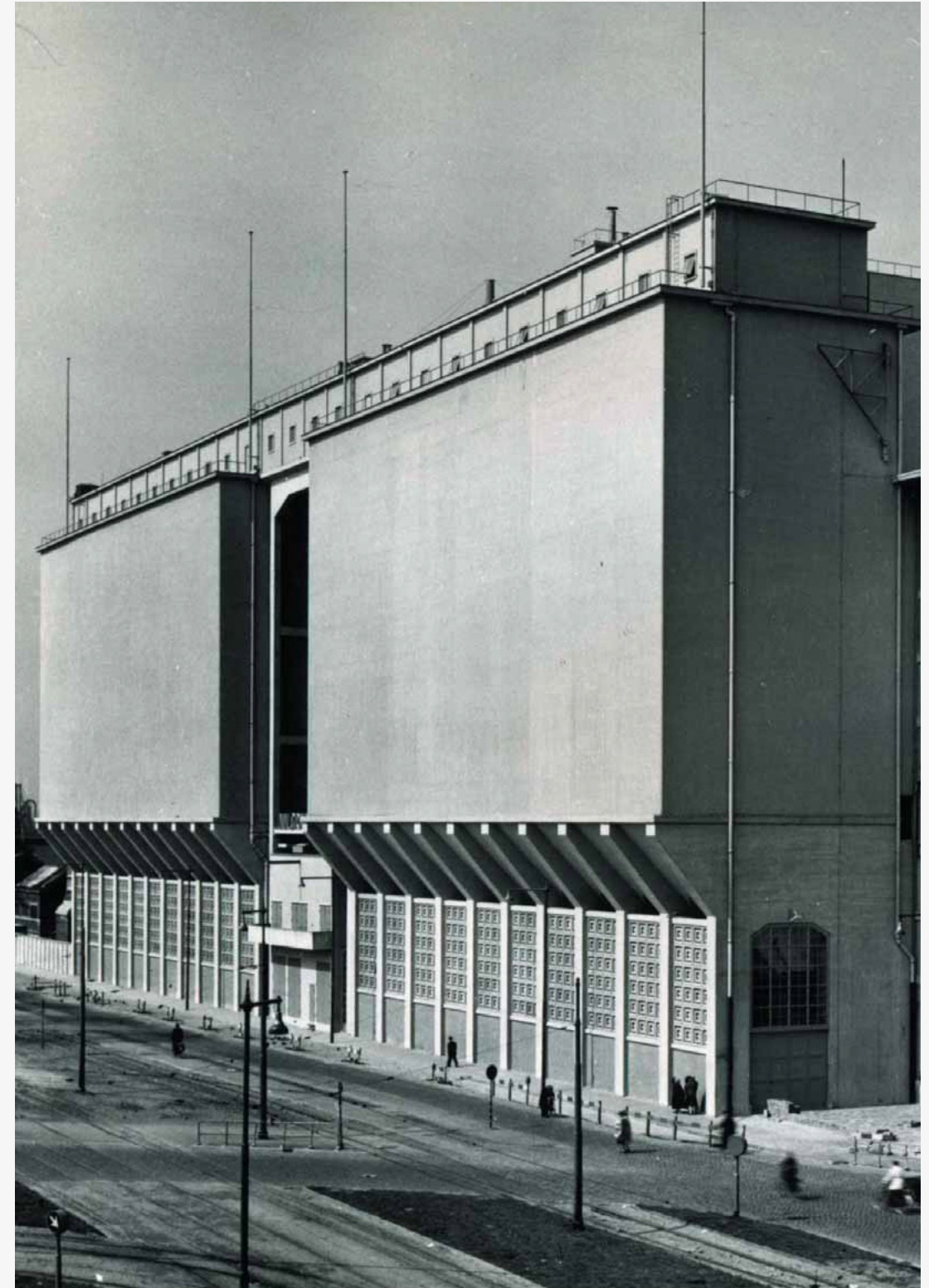
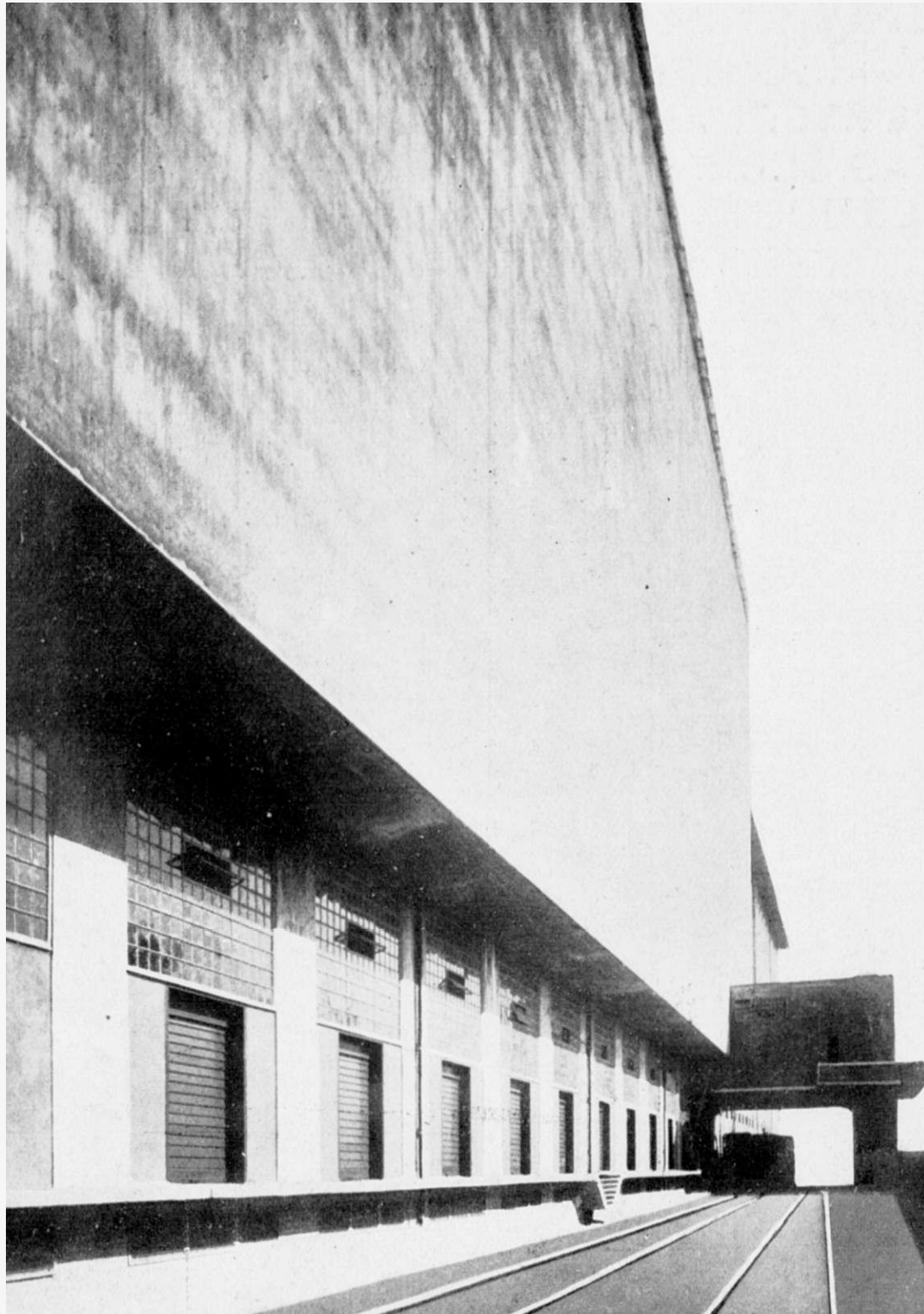




1930 Maassilo was extended, tripling the capacity



1951 Second extension on remaining part of the site



Extension was built on both sides of existing transformer building

80'S



Maassilo company moves to the botlek

2003



Maassilo stops functioning as grain storage

2003



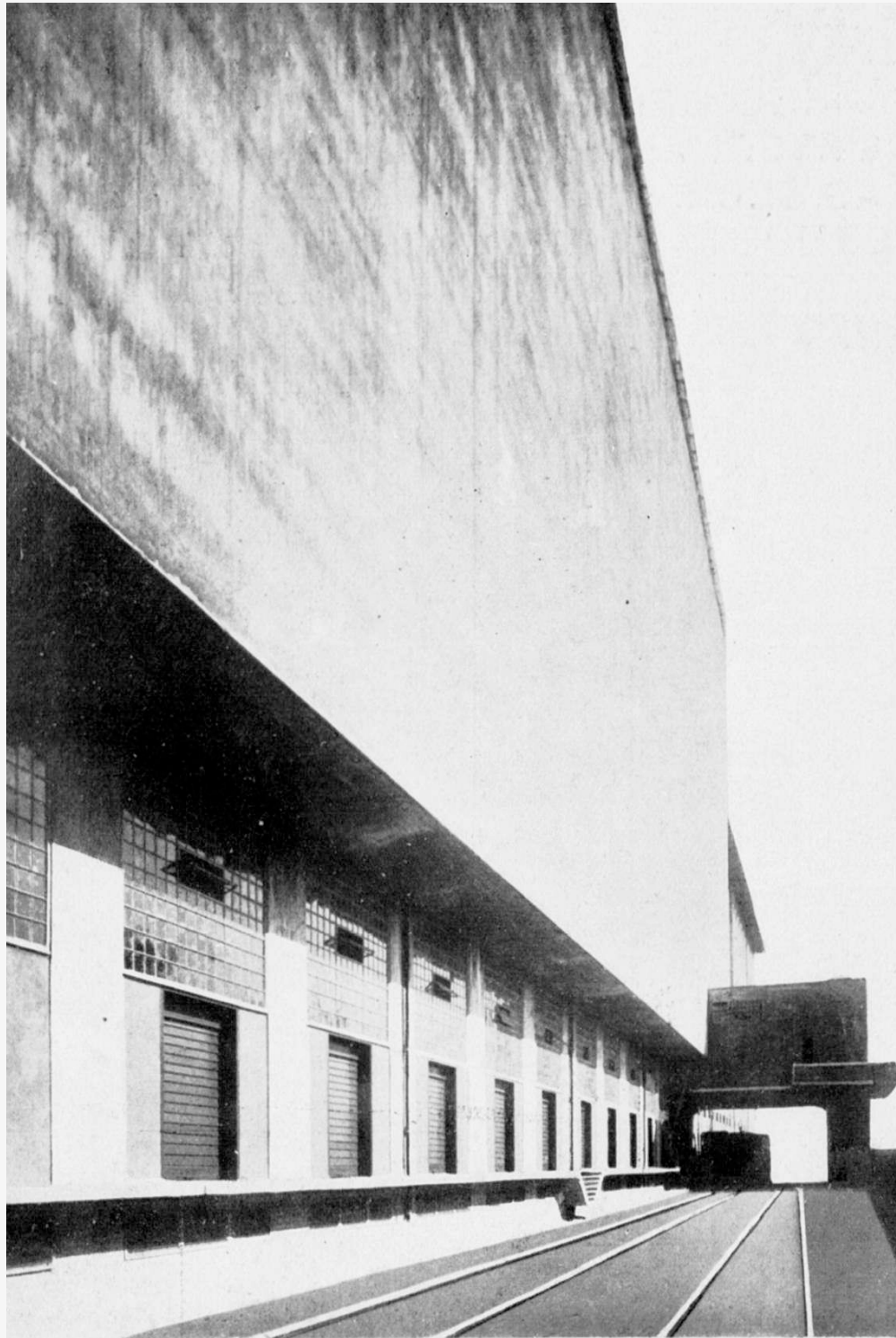
Ground floor gets redeveloped into night club

2008

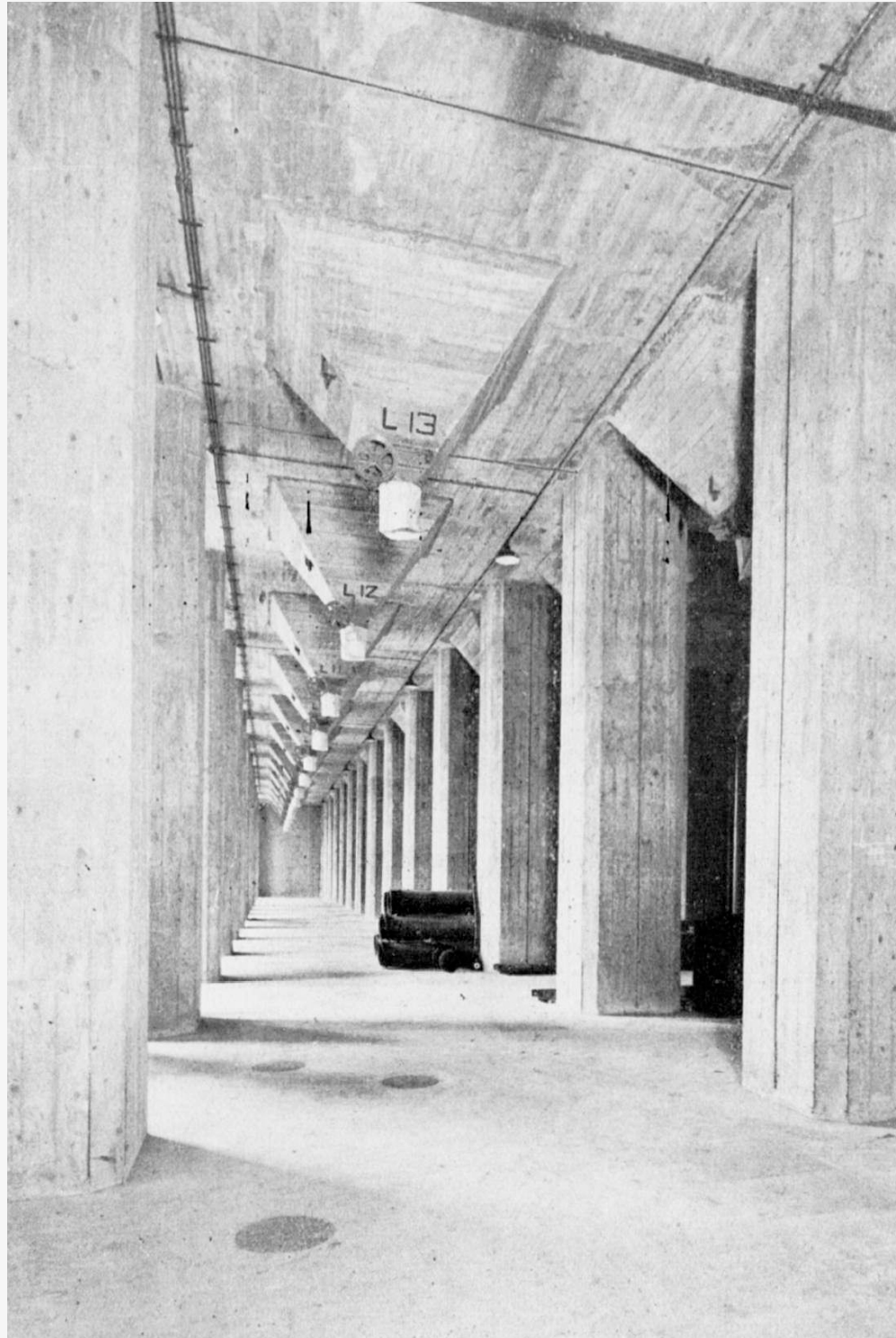


Attic and factory get transformed into offices for start-ups

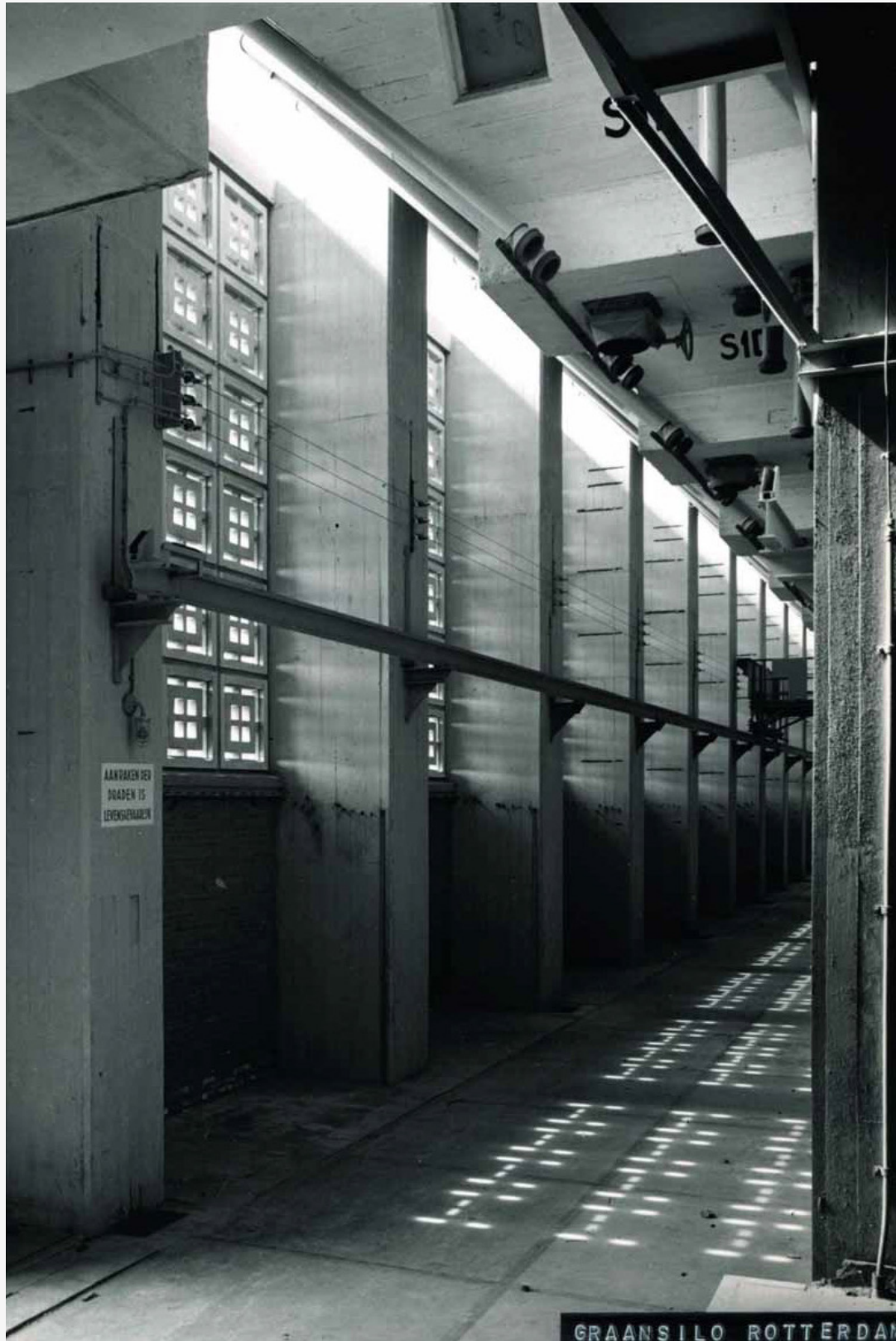




To prevent noise disturbance airlocks have been placed.
Windows have been removed.



Previous well lit space has become dark and disconnected from the outside



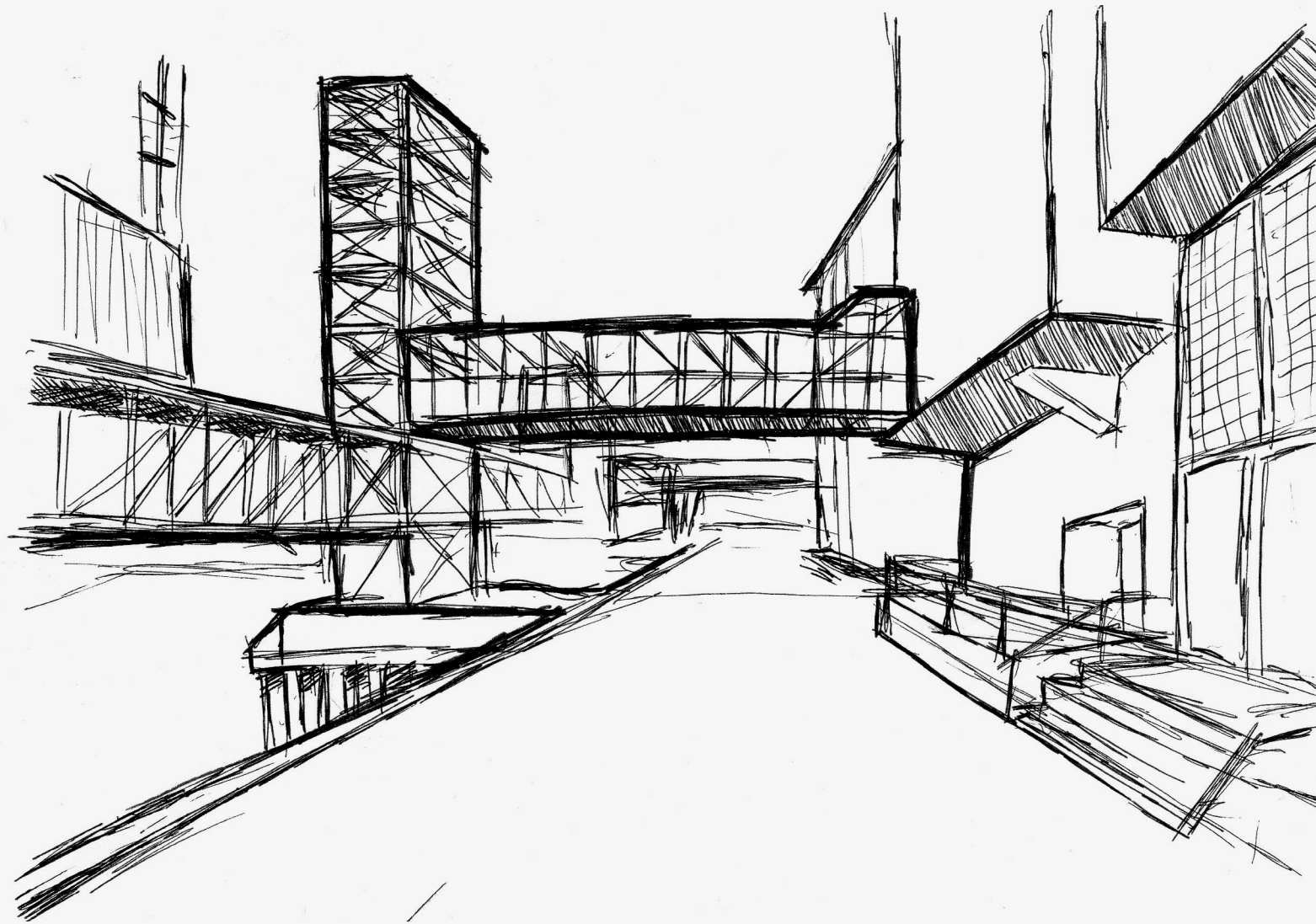


The new program ignores the original elements

PUBLIC SPACE

STRONG RELATIONSHIP MAASHAVEN

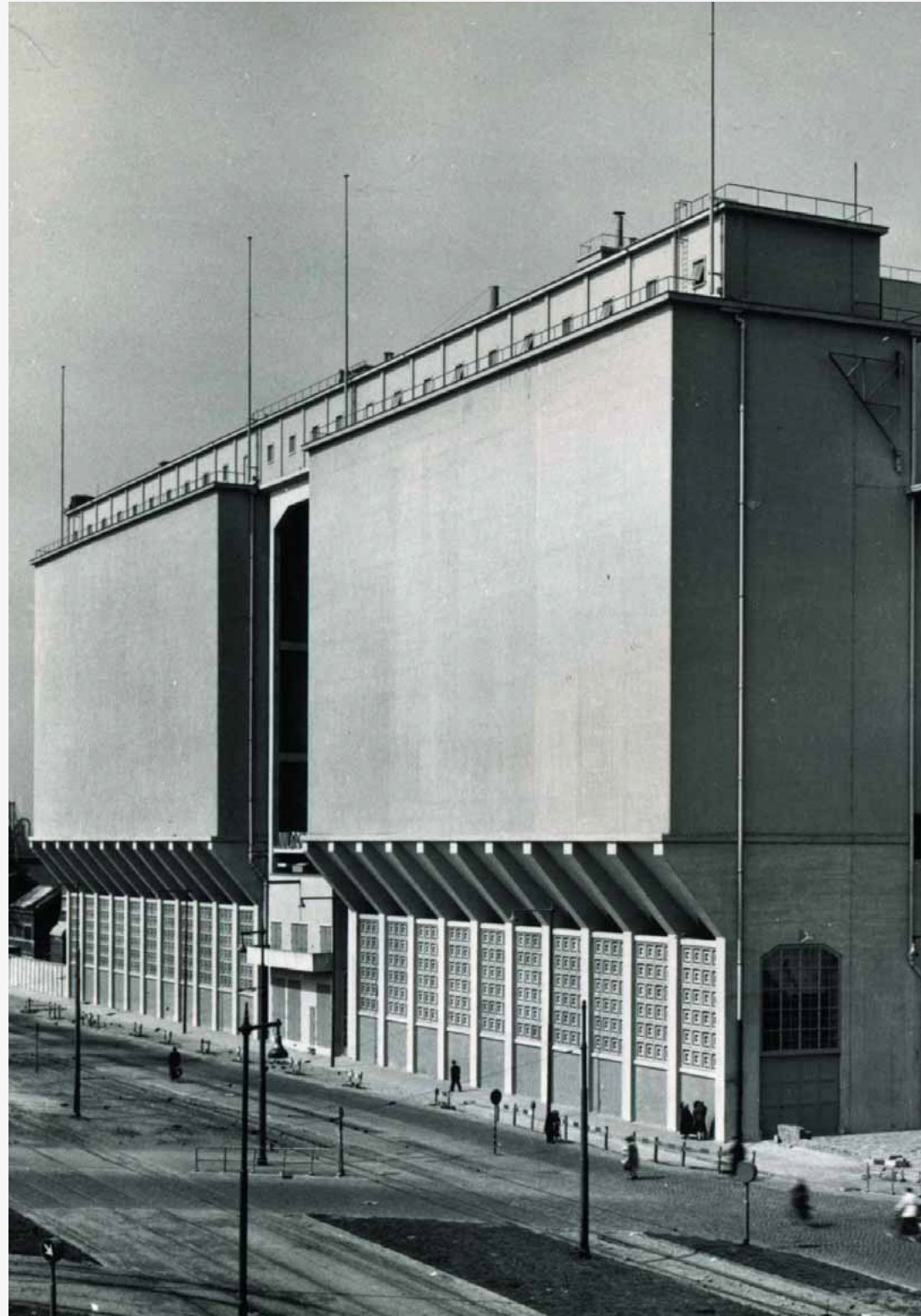




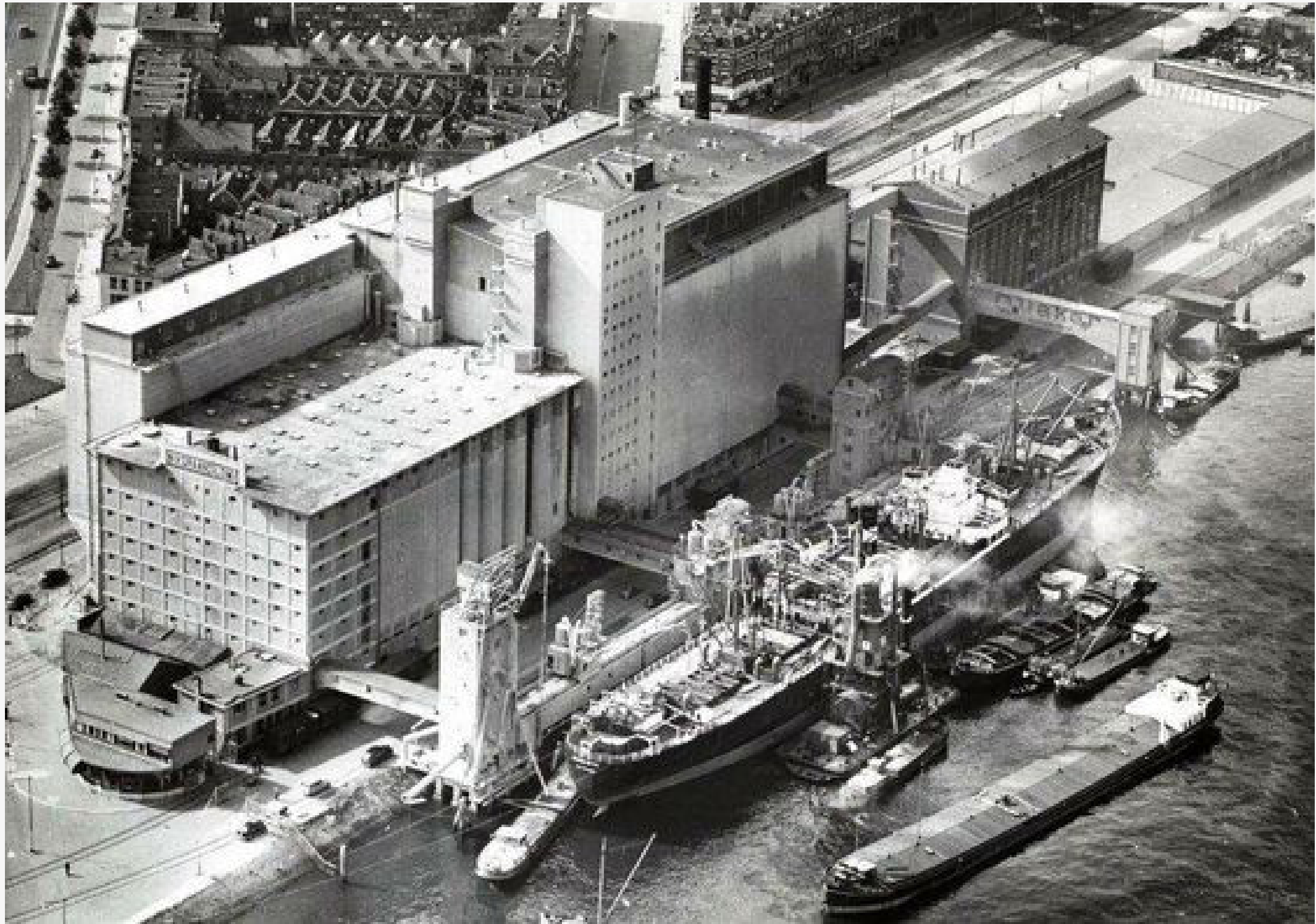
Not a lot of public space. Not a lot of space to meet and to park your bike and car.



If the building is approached from the north, the organization of the building is immediately clear



Building forms border between
neighbourhood and Maashaven



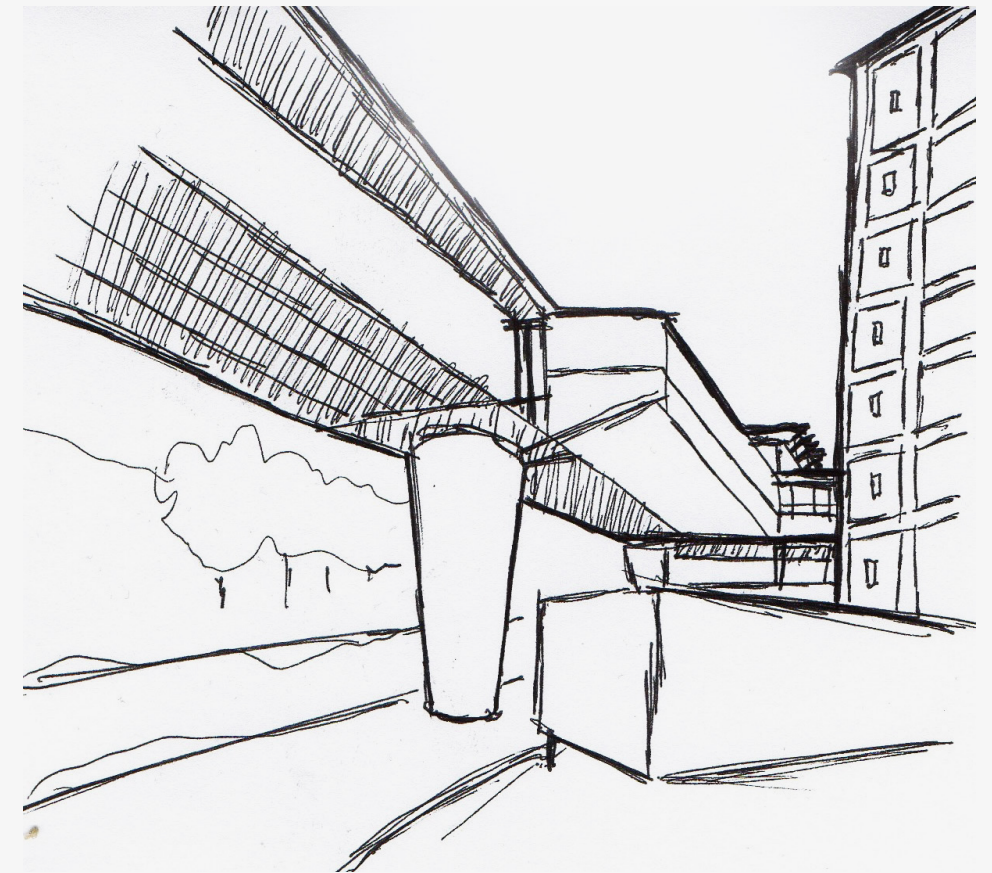
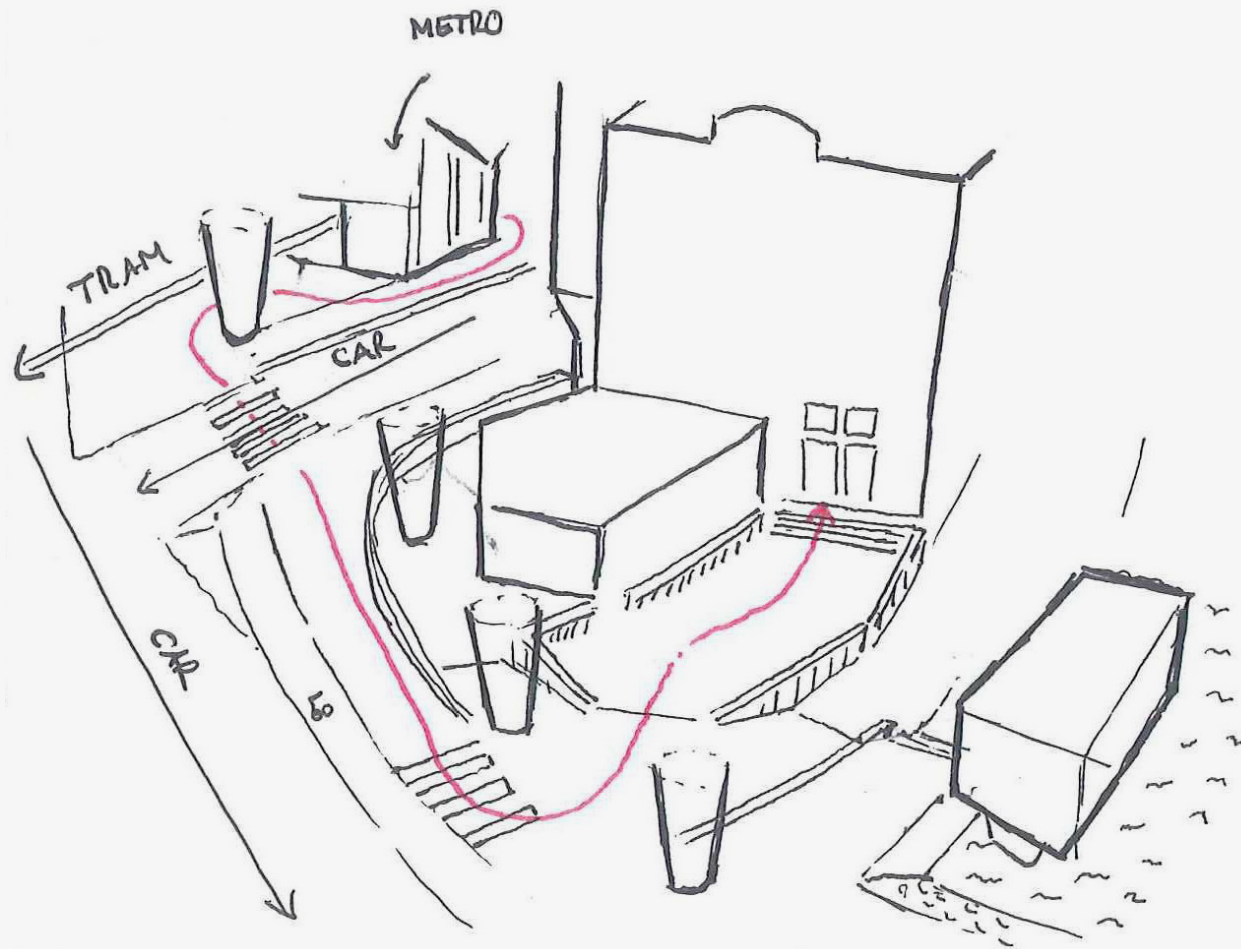
Quacker and the Maassilo look as one complex



Recognizable chimney of quacker



Messy entrance



PROBLEM STATEMENT

During the redevelopments some of the beautiful characteristics of the building have been destroyed. Only the attic and the ground floor have been redeveloped but a coherent solution hasn't been found.

DESIGN ASSIGNMENT

How can the remaining 70% of empty space (silos) in the building be redeveloped?

PART 2
PROGRAM

SOCIAL TRENDS AND SOCIAL PURPOSE PROGRAM



- meet the current trend of decentralizing services
- Provide platform for the increasing amount of freelancers and flexworkers.
- Place for social gathering
- A platform for start-ups and small companies
- public workplaces, workshop rooms, educational functions (tutoring), study places, multimedia, auditorium and conference rooms.

What kind of program could combine all these functions in a coherent whole?

BOOKS COFFEE BAR CONFERENCE PUBLIC
LECTURE ROOMS WORKSPACES
SOCIAL MULTIMEDIA FLEXIBLE OFFICES
GATHERING EXCHANGE OF INFORMATION PRESENTATION
KNOWLEDGE CENTER EDUCATION ROOMS HOMEWORK
ARCHIVE
EXHIBITION AUDITORIUM

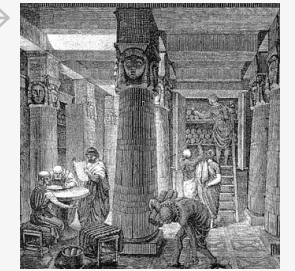
A word cloud centered around the word "LIBRARY". The word "LIBRARY" is the largest and most prominent, rendered in a dark teal color. Surrounding it are various other terms in a lighter teal color, including: BOOKS, COFFEE BAR, CONFERENCE, ROOMS, PUBLIC WORKSPACES, LECTURE, MULTIMEDIA, SOCIAL GATHERING, EXCHANGE OF INFORMATION, EDUCATION, AUDITORIUM, EXHIBITION, KNOWLEDGE CENTER, ARCHIVE, PRESENTATION, FLEXIBLE OFFICES, and HOMEWORK. The words are arranged in a roughly circular pattern around the central "LIBRARY" word.

DEVELOPMENT LIBRARY

- From the tablet storehouses to today's multi-functional media centres.
- From the silent sanctuary of books to the new public urban spaces like Urban Mediaspace.
- Decline in consulting collection
- Extra functions like cafes, art galleries and theatres

The library is a place for pleasure and gathering knowledge. The easy access to information, even if the collections are not consulted every day.

300 BC



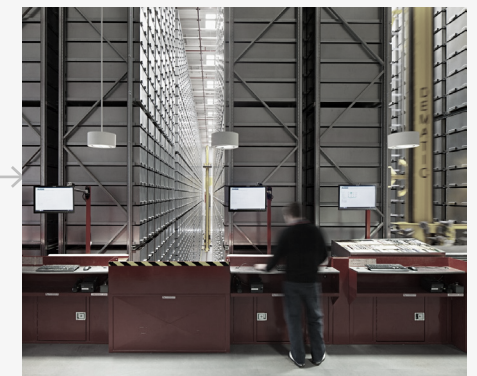
LIBRARY OF ALEXANDRIA
part of Museaeum which contained lecture halls, meeting rooms, gardens

2013



Bexar County's Digital Library
BiblioTech is the first and only bookless, all-digital public library in the United States. It loans e-readers with a maximum of five books.

2013



Hunt Library
The library uses 'Bookbots' to automatically retrieve books from a storage, reducing the needed space for conventional shelving with more than 88%. Allowing more space for collaborative learning environments.

2014



Urban Mediaspace
By SHL architects, designed as a big covered public space, which offers the flexibility needed for the new generation of libraries. The program is 30 000 m² and contains a theatre, library, media, offices, restaurants and parking spaces.

2013



New York Public Library
The design of Foster, is a response to the cultural shift from traditional stacks to online resources, as the library has experienced a 41% decrease in the use of collections over the last 15 years. The design has been rejected in 2014 by the board of the library. Norman Foster's controversial plans forms the center of the discussion about the future libraries.

The contemporary library offers functions which can be grouped in four sections

CONTEMPLATION

GATHERING

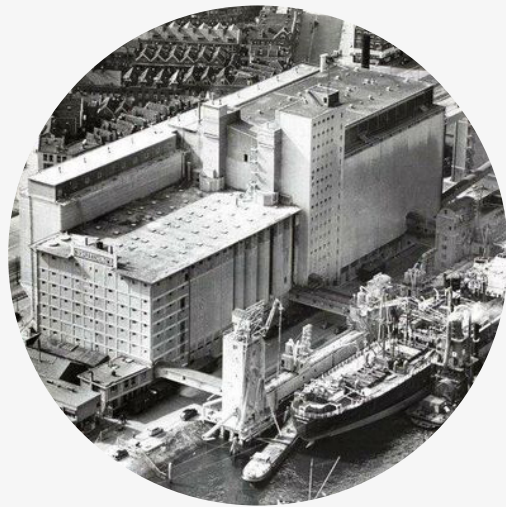
COLLABORATION

COOPERATION

PART 3
VALUES / IDENTITY BUILDING

STARTING POINTS DESIGN

General guidelines for transformation



THREE BUILDING PERIODS
SHOULD REMAIN
VISIBLE



THE ORIGINAL FUNCTION AS
GRAIN STORAGE SHOULD
REMAIN VISIBLE



THE HISTORICAL TRANSPORT
SYSTEM SHOULD BE ABLE TO BE
TRACED



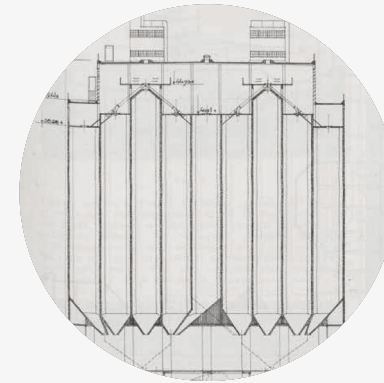
INDUSTRIAL CHARACTER
SHOULD BE PRESERVED

What defines the character of the building?

ESSENTIAL ARCHITECTURAL ASPECTS



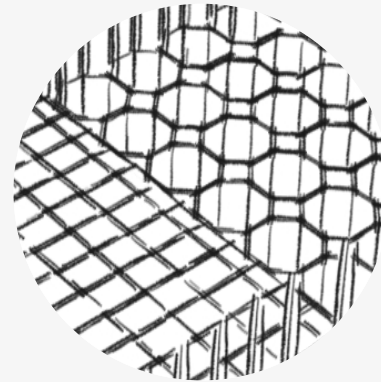
THREE BUILDING PARTS



VERTICAL ORGANIZATION



INTROVERT CHARACTER



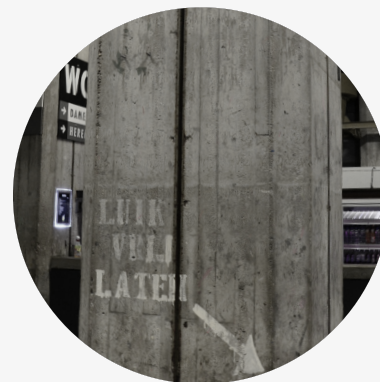
STRUCTURE SILOS



RHYTHM FACADE



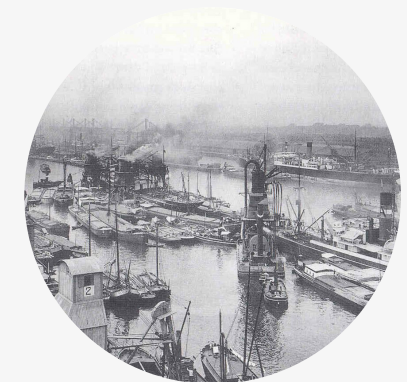
LARGE SCALE



OLDNESS MATERIAL



MACHINERY



RELATIONSHIP WATER

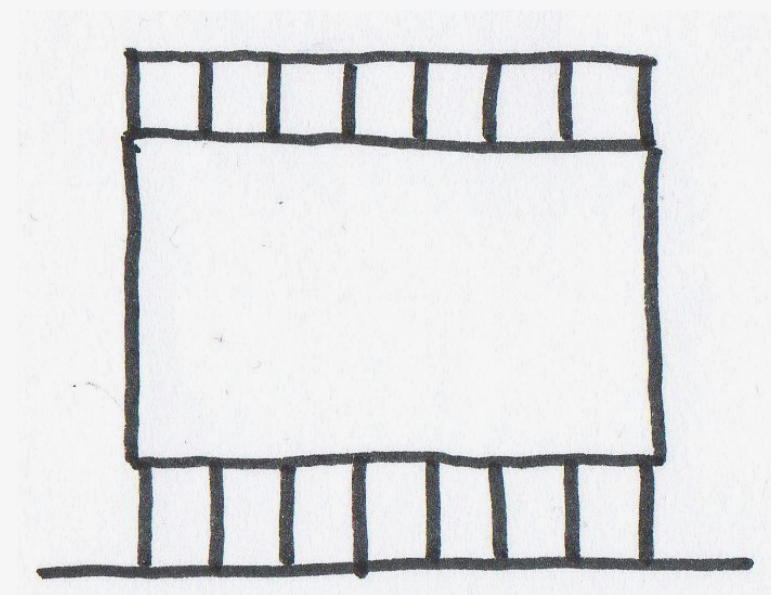
How can we enhance the qualities in our design?

PART 4 INTERVENTION

MASTERPLAN

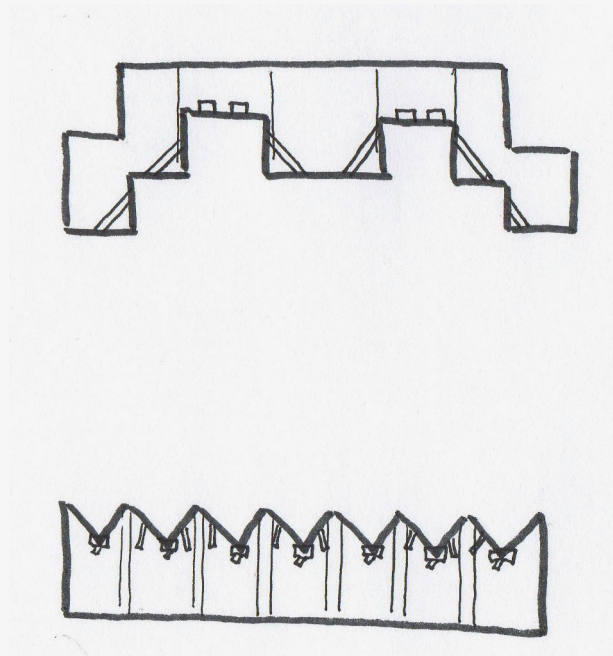
Storage grain → storage books

BRING THE CHARACTERISTICS OF THE MAASSILO AND THOSE
OF THE LIBRARY TOGETHER.

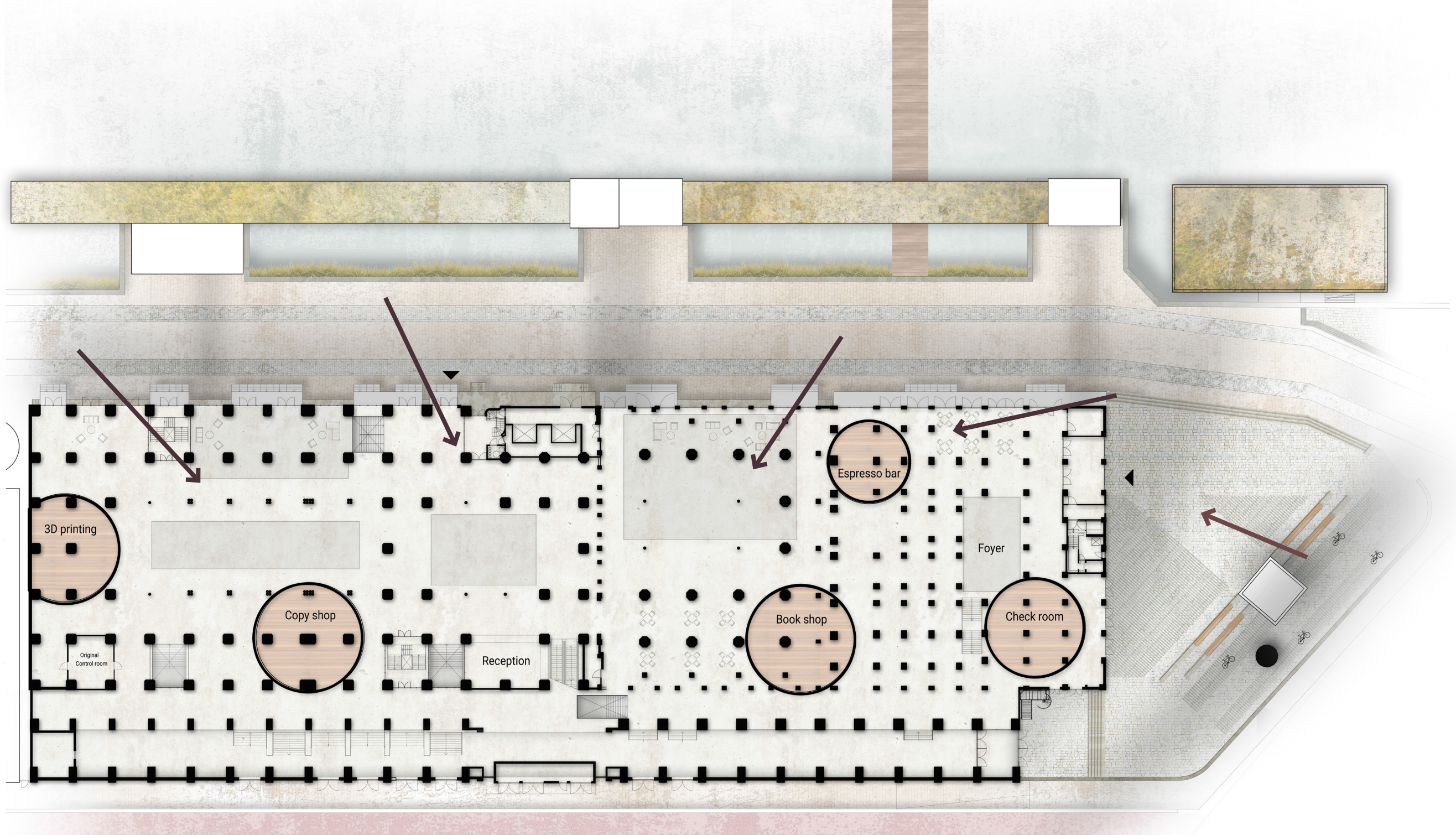


Treasure of knowledge

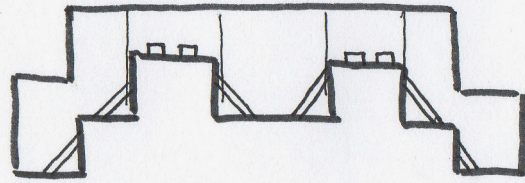
ENHANCE THE QUALITIES OF THE MAASSILO



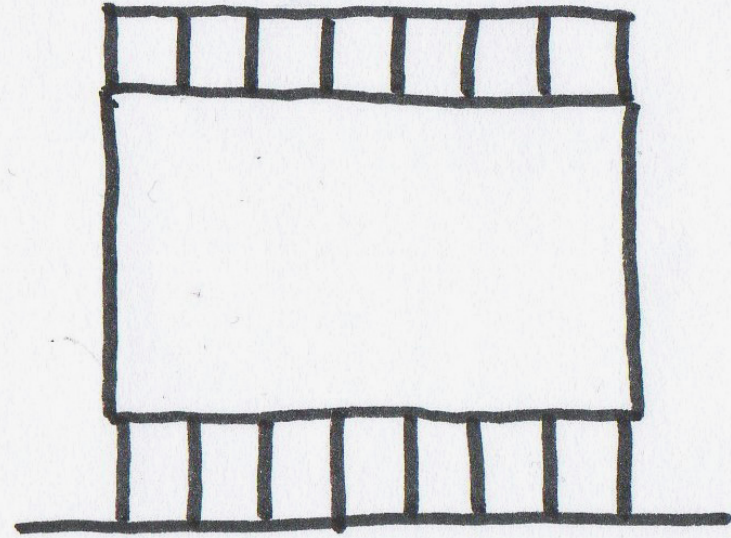
Only attic and ground floor are accessible

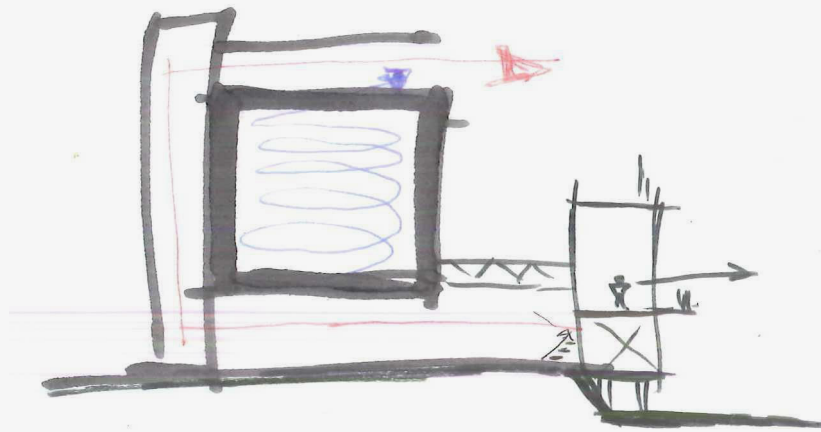


Compensate the lack of public space and make a connection between the public space and the metro station



- Restore the natural lit spaces designed for people.
- Keep introvert character silos.





Building is oriented towards the Maashaven. Turns its back to the neighbourhood.

The plinth represents movement and has a public nature,

whereas the 'centre' – which houses the books – symbolizes tranquillity.

The 'top' contains the view point and reconnects with the surroundings.

Grain elevators form the connection with the Maashaven

The contemporary library offers functions which can be grouped in four sections

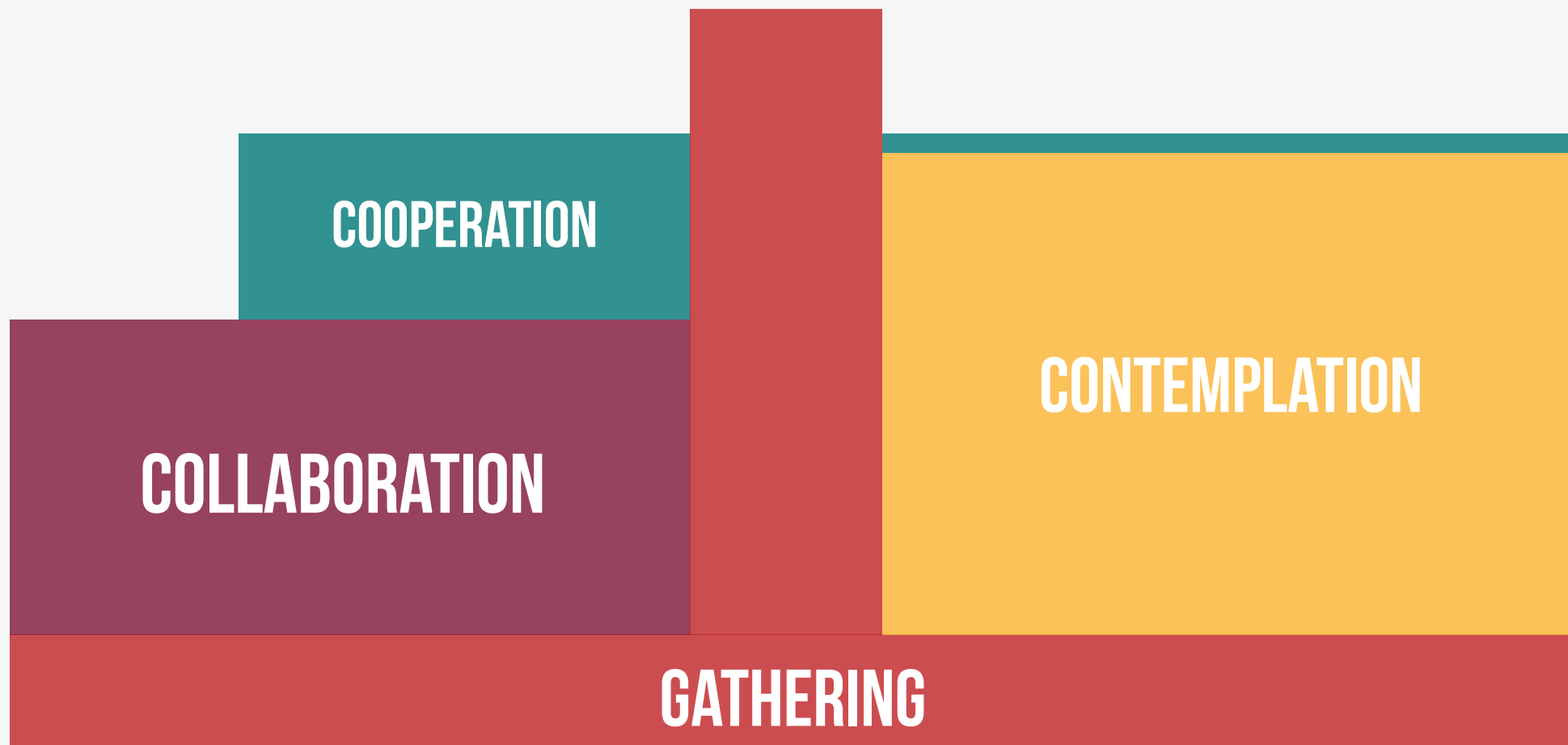
CONTEMPLATION

GATHERING

COLLABORATION

COOPERATION

Each program section has its own demands.



The sections are accommodated in different parts of the Maassilo to meet the requirements.

COLLABORATION

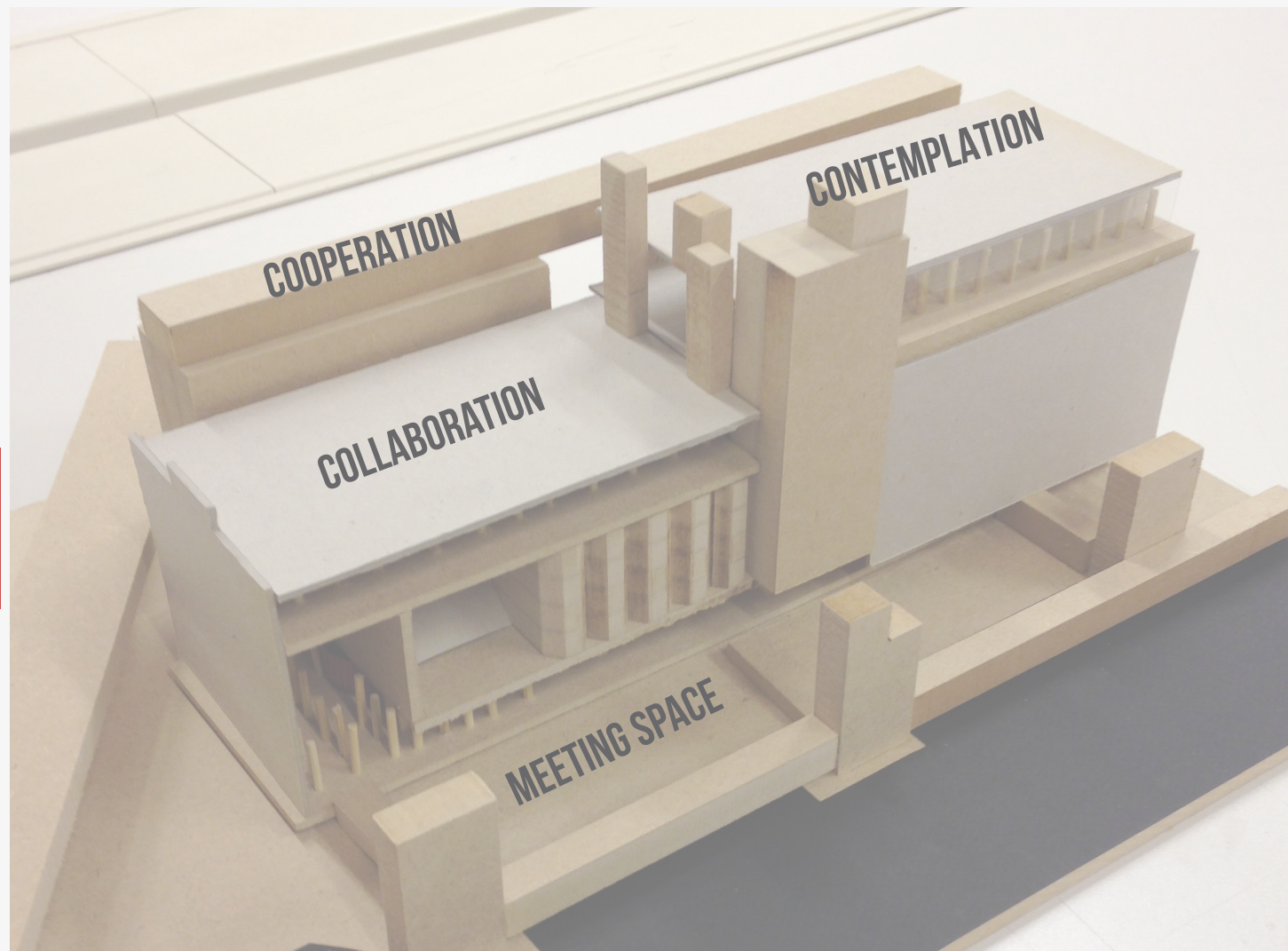
- Auditorium
- Workshop spaces
- Exposition space
- Makerspace
- Presentation rooms
- Visualization wall

COOPERATION

- Start-Ups
- Administration
- Conference room

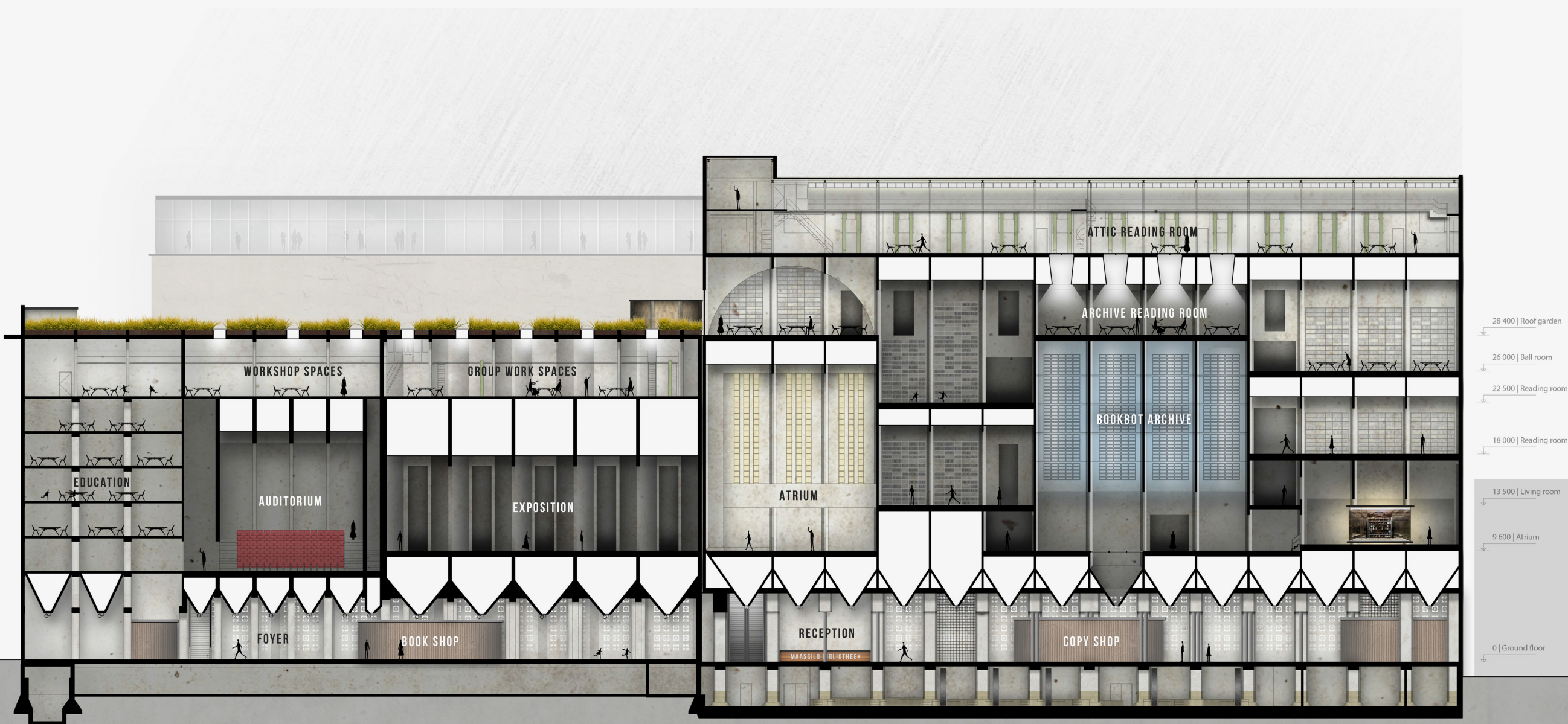
GATHERING

- Coffee corner
- Living room
- Foyer/Lobby
- Restaurant
- Book shop
- Service desk
- View point
- Print shop



CONTEMPLATION

- Reading rooms
- Book shelves novels
- Archive
- Erasmus collection
- Bookbots
- Reading hall
- Service desk
- Loaning
- Periodicals







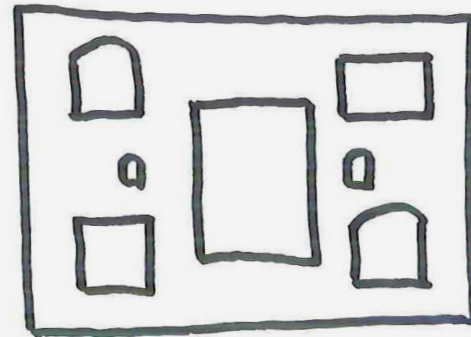
PART 4.2
PART BRINKMAN

Contemplation

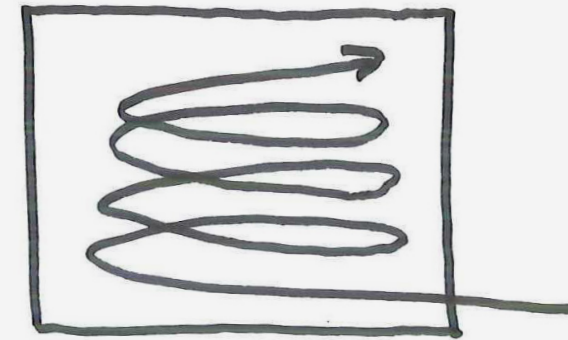
EXPERIENCE THE SILOS



Uniform vertical structure of silos



Carving rooms, which form relief in dense structure



Exiting route connects different spaces.

COLLECTIONS



OPEN STACK

Books which are often loaned and which are attractively displayed.



ARCHIVE

Storage of books and documents which are not consulted very often.



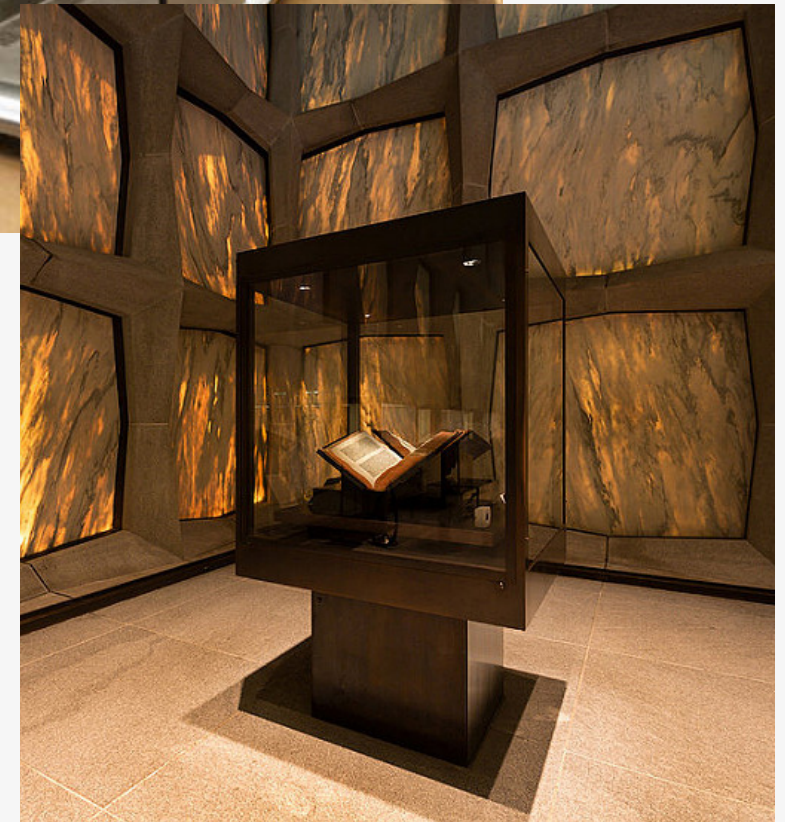
RARE BOOK COLLECTION

The Erasmus collection consisting of rare medieval books which should be kept in a strict climate and should be handled very carefully



RARE BOOK COLLECTION

The Erasmus collection consisting of rare medieval books which should be kept in a strict climate and should be handled very carefully





OPEN STACK

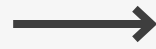
Books which are often loaned
and which are attractively
displayed.



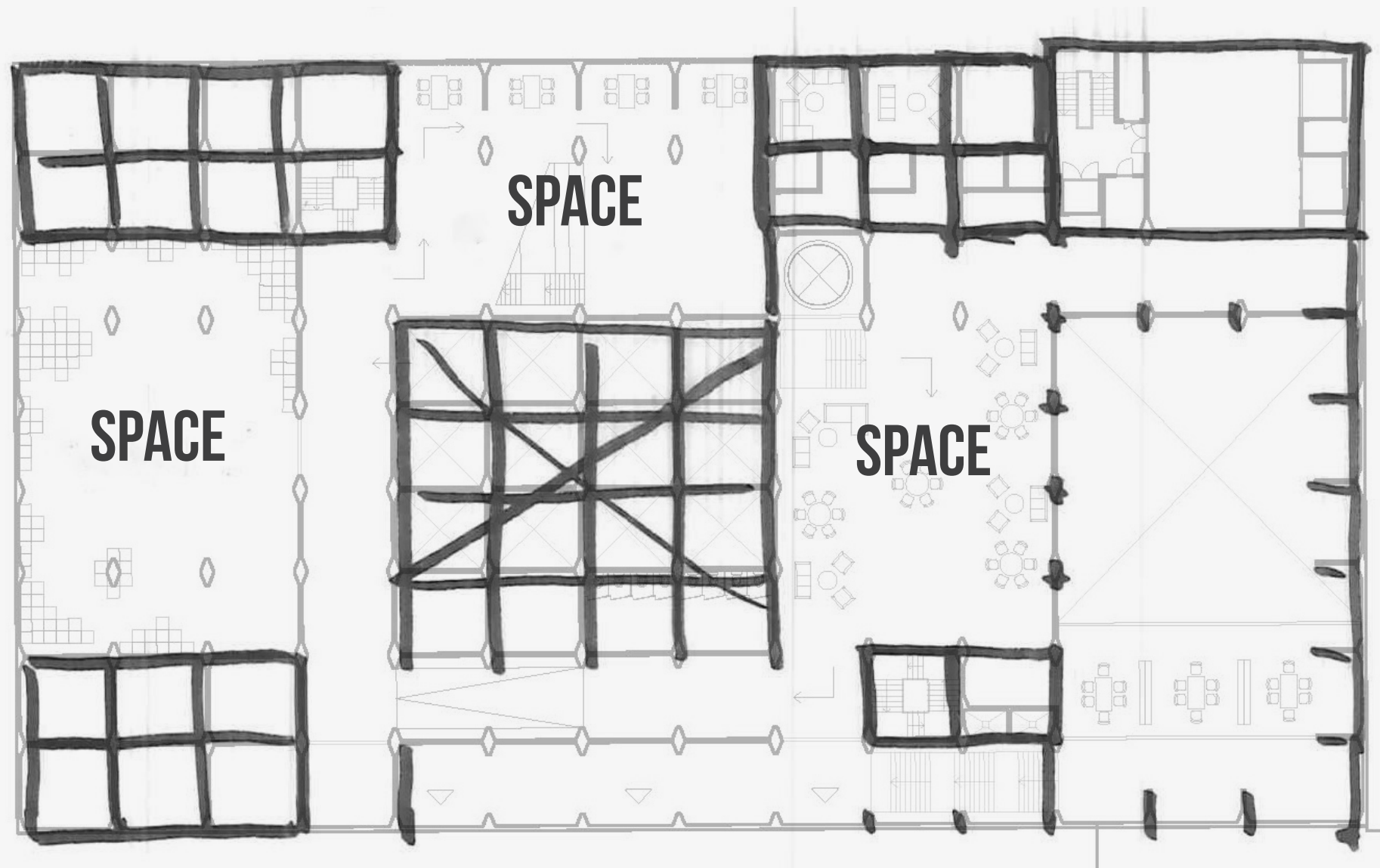


ARCHIVE

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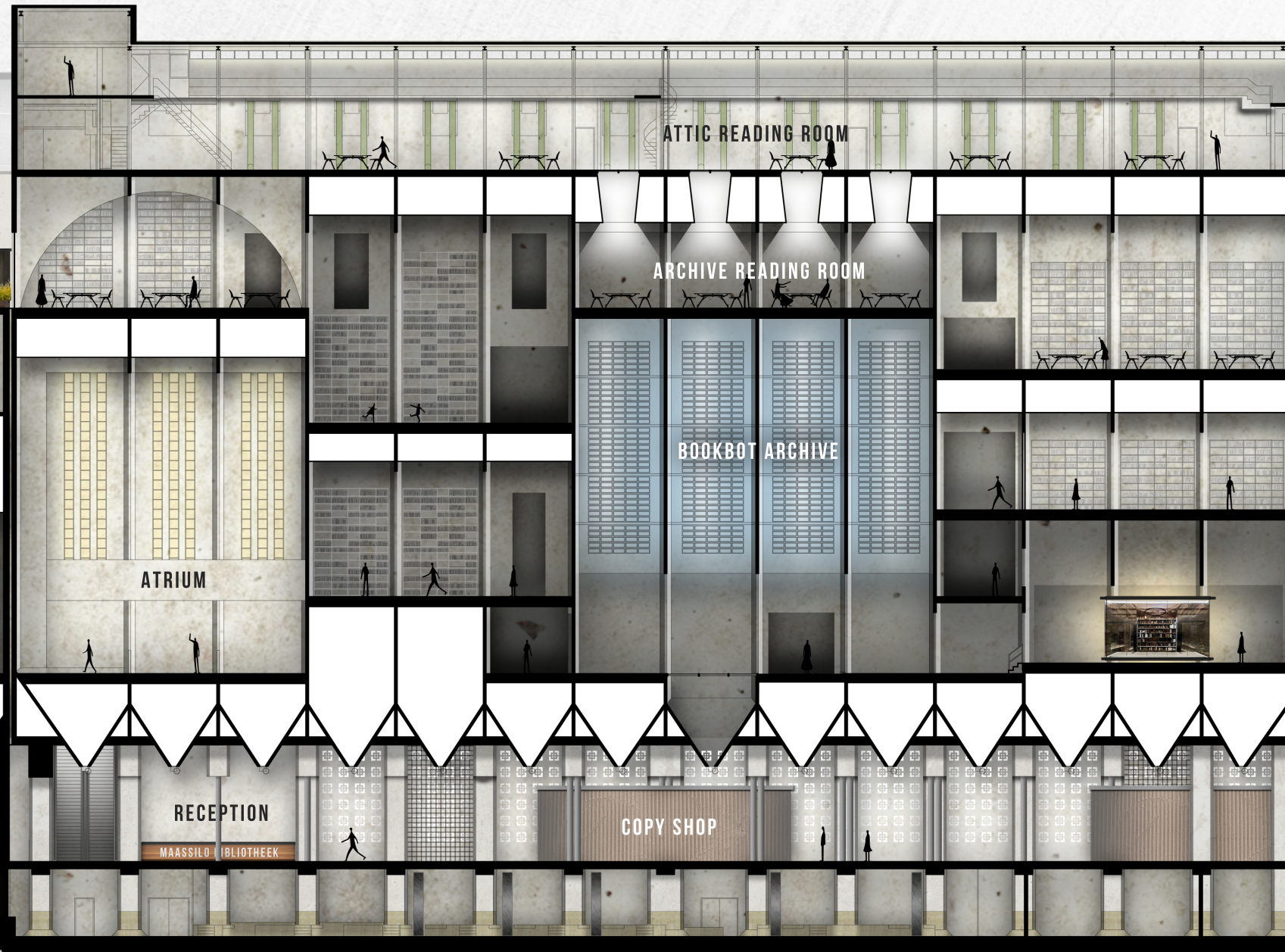


People love light,
books don't



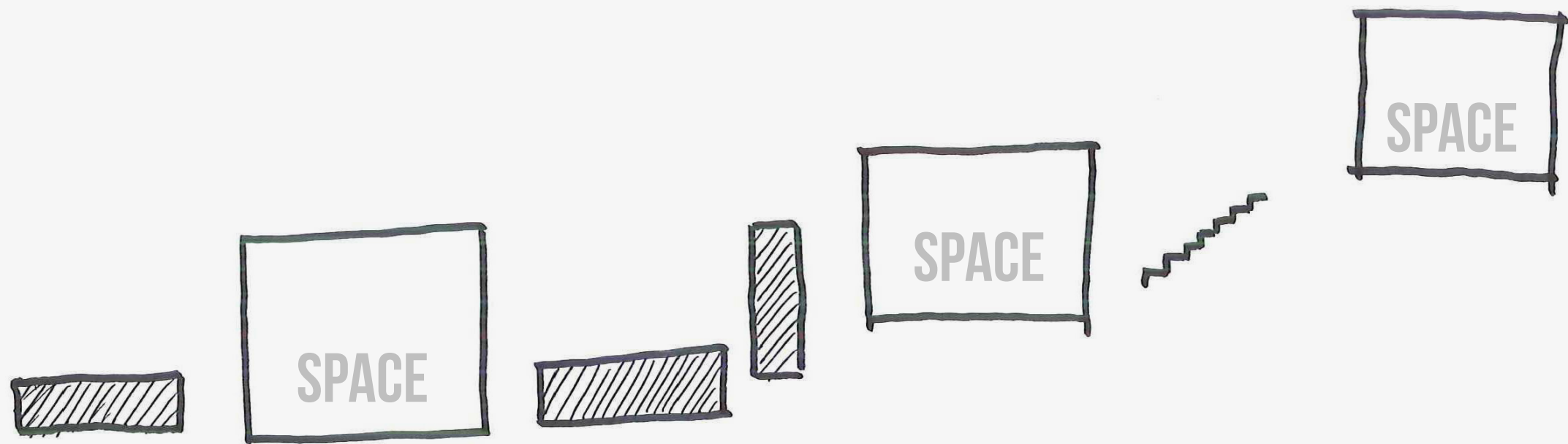
Archive in the center. Spaces carved out in the surrounding structure.

ORGANIZATION



- Workshops spaces and reading rooms in light transport attic
- Place books in the dark spaces of the Maassilo
- Intimate/quiet study places in the silos
- Vertical bookbot archive in silo's



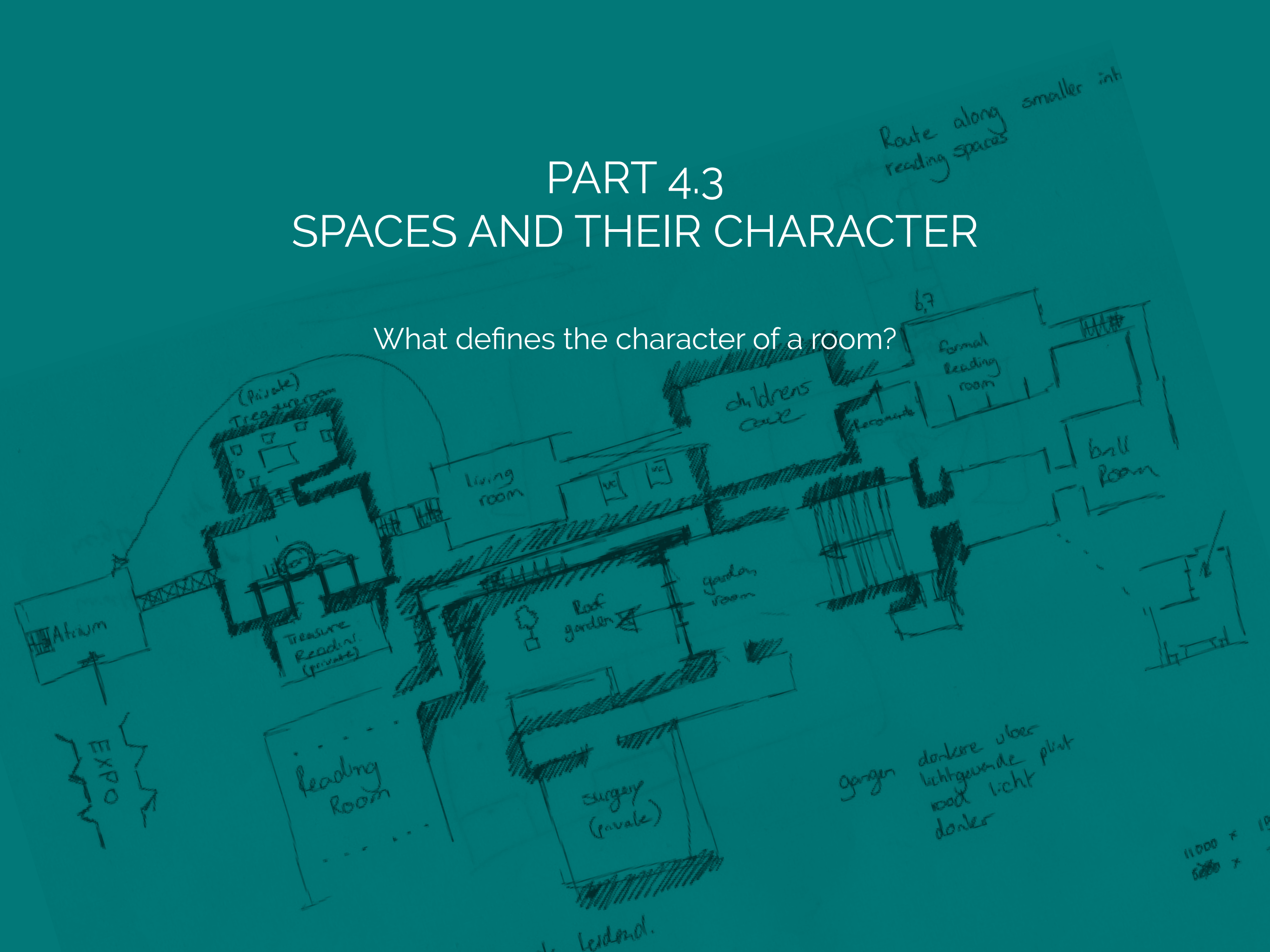


The connecting route consists of a sequence of spaces. The smaller darker spaces form a introduction for the larger spaces. The route takes the user along all the different kind of treasures of the library.

PART 4.3

SPACES AND THEIR CHARACTER

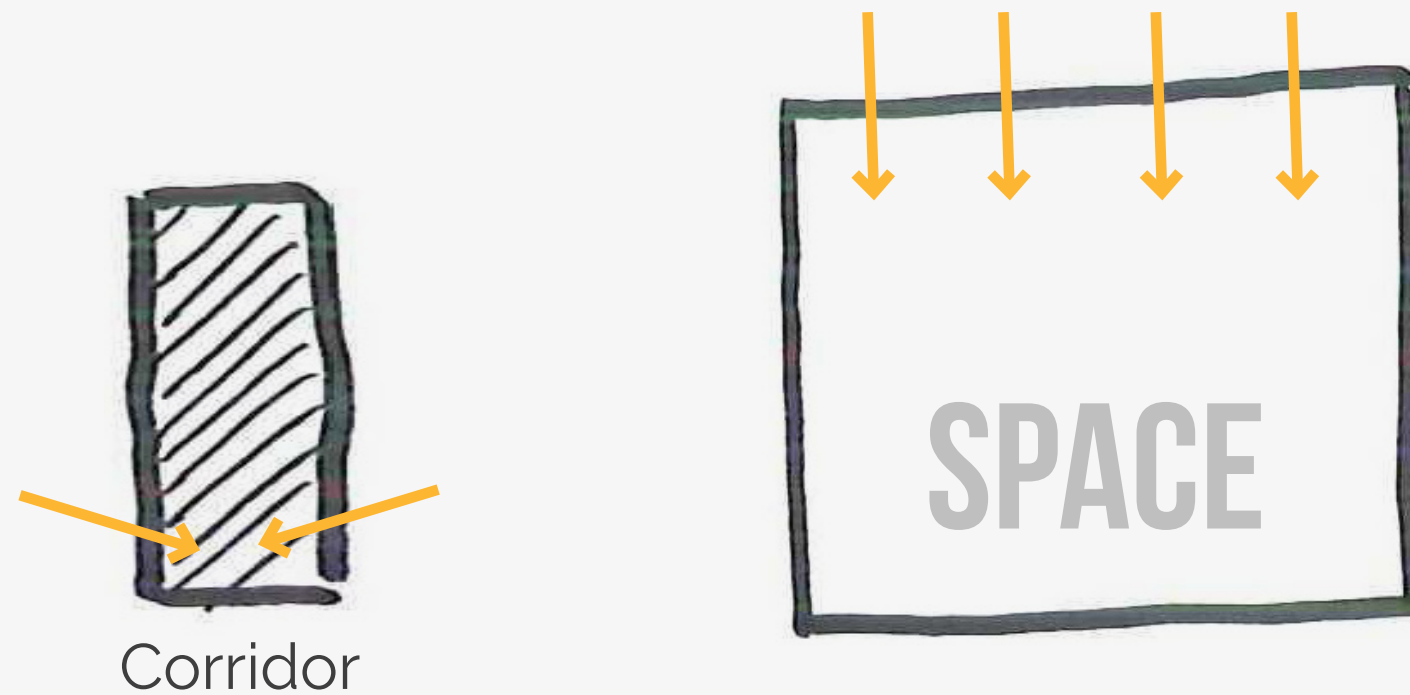
What defines the character of a room?



CHARACTERISTIC



MOVEMENT - SPACE OR CORRIDOR



All the corridors have the same floor, ceiling and lighting near the ground.

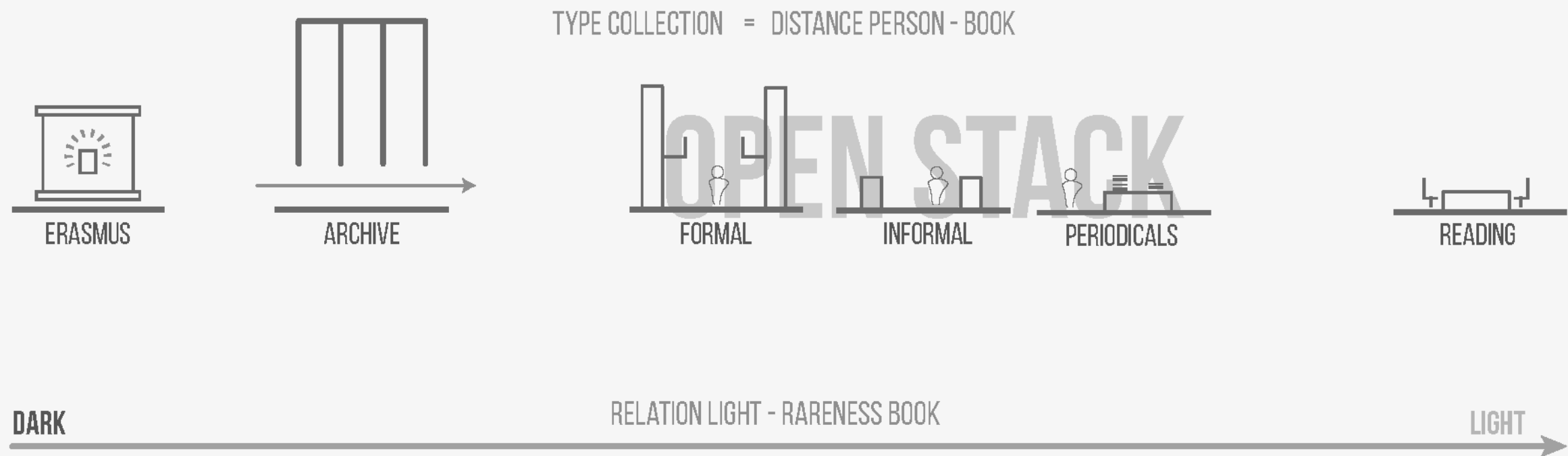
SPACE OR CORRIDOR



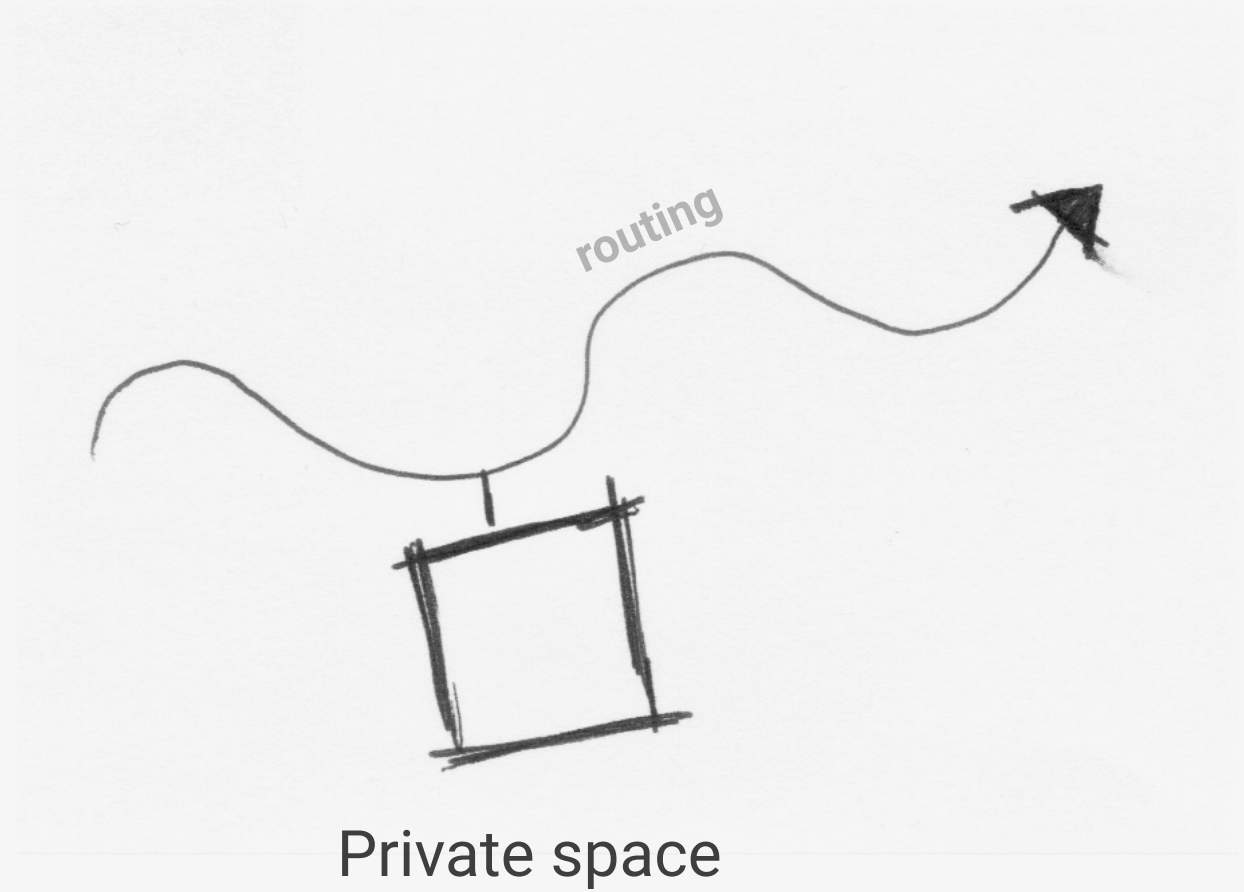
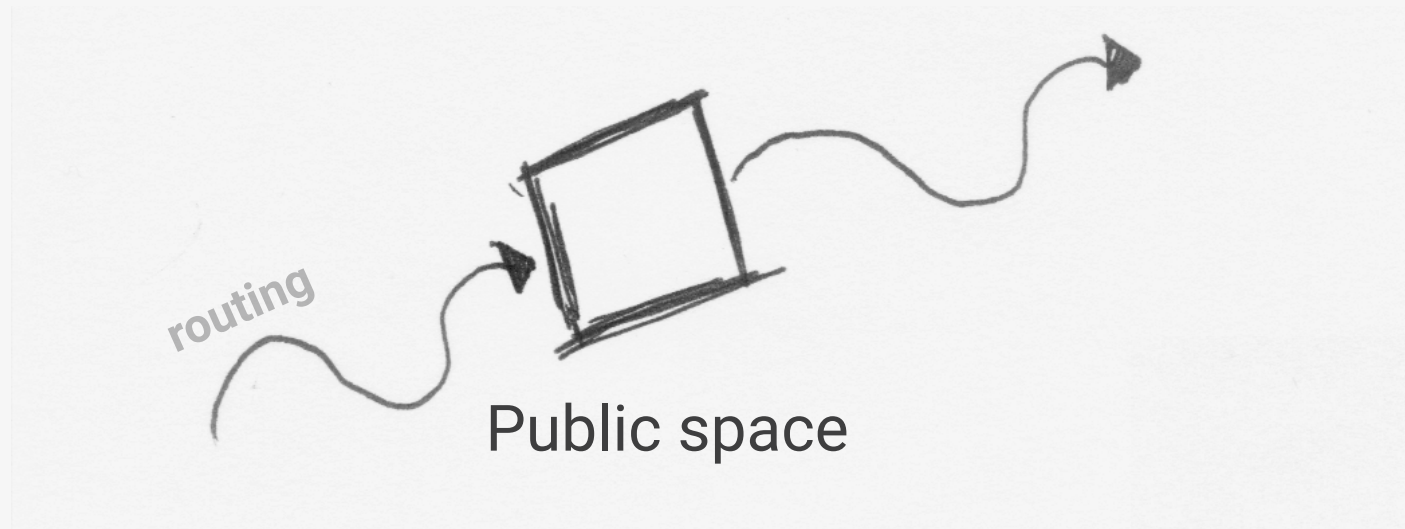
Corridors are desorienting but also a mean to navigate through te building

COLLECTION - LIGHT

The silos form a uniform structure, hence the character of the spaces is defined by the collection



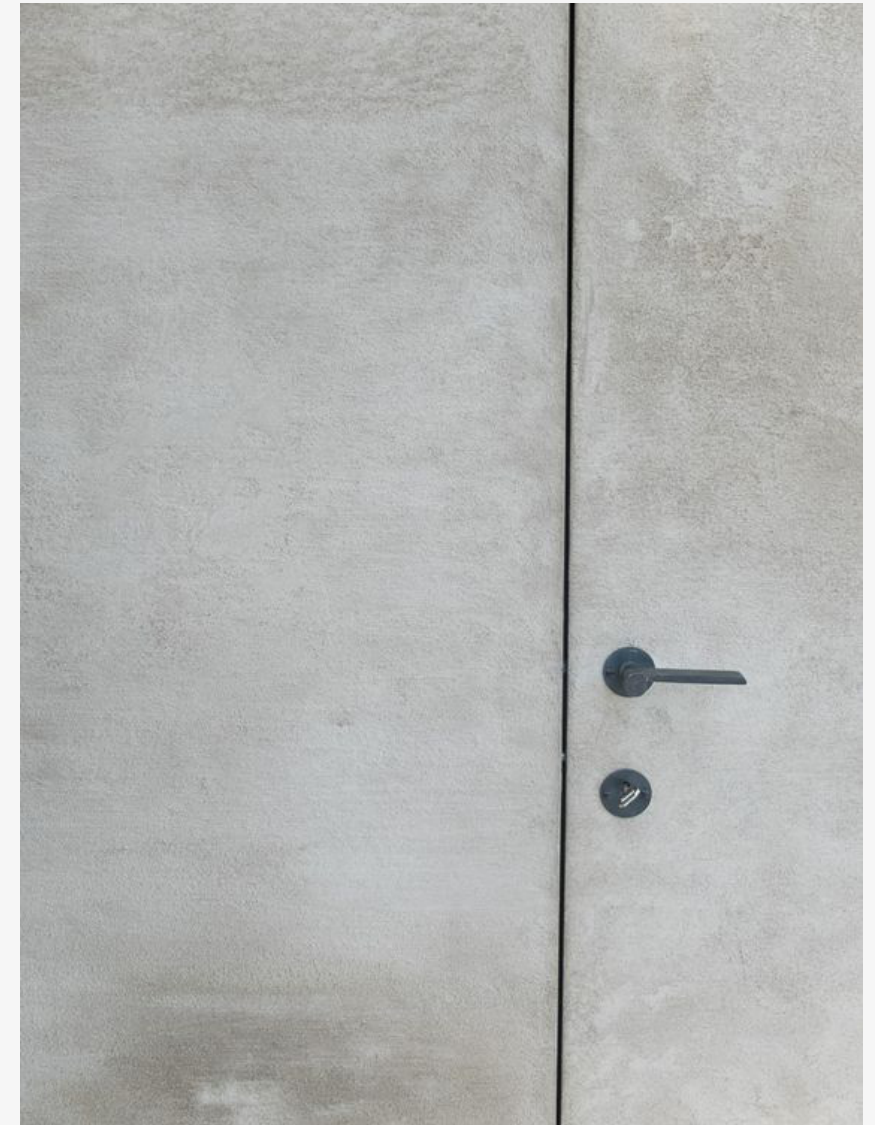
PUBLIC AND PRIVATE SPACES



ACCESS PRIVATE SPACES



Heavy steel door

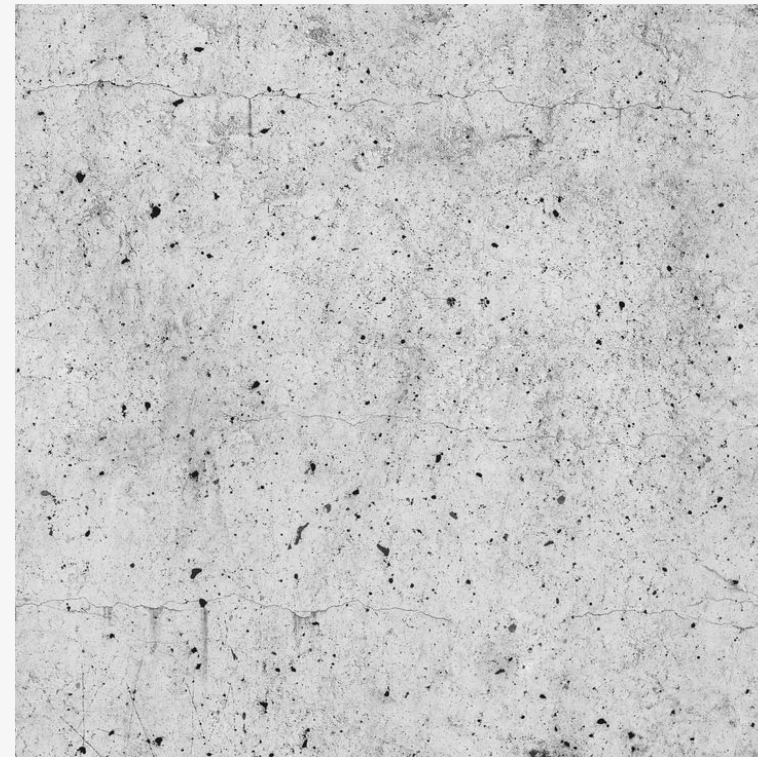


Hidden door

ATMOSPHERE



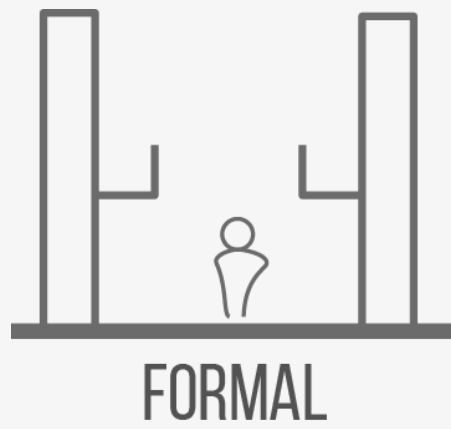
Quiet



Vivid



DISPLAY OF BOOKS



SILOS AS CONSISTENT FACTOR

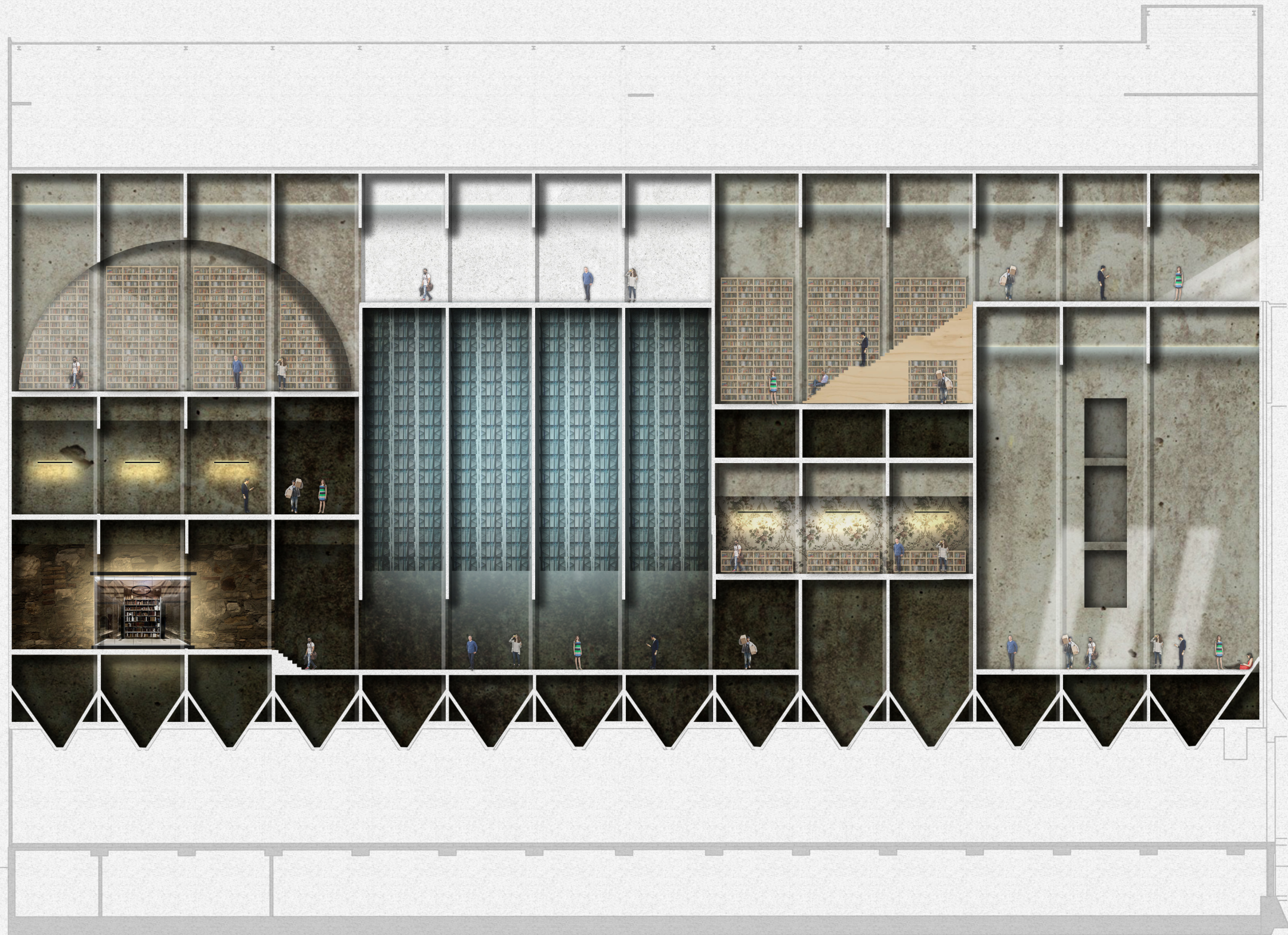


Material

- rough concrete wall

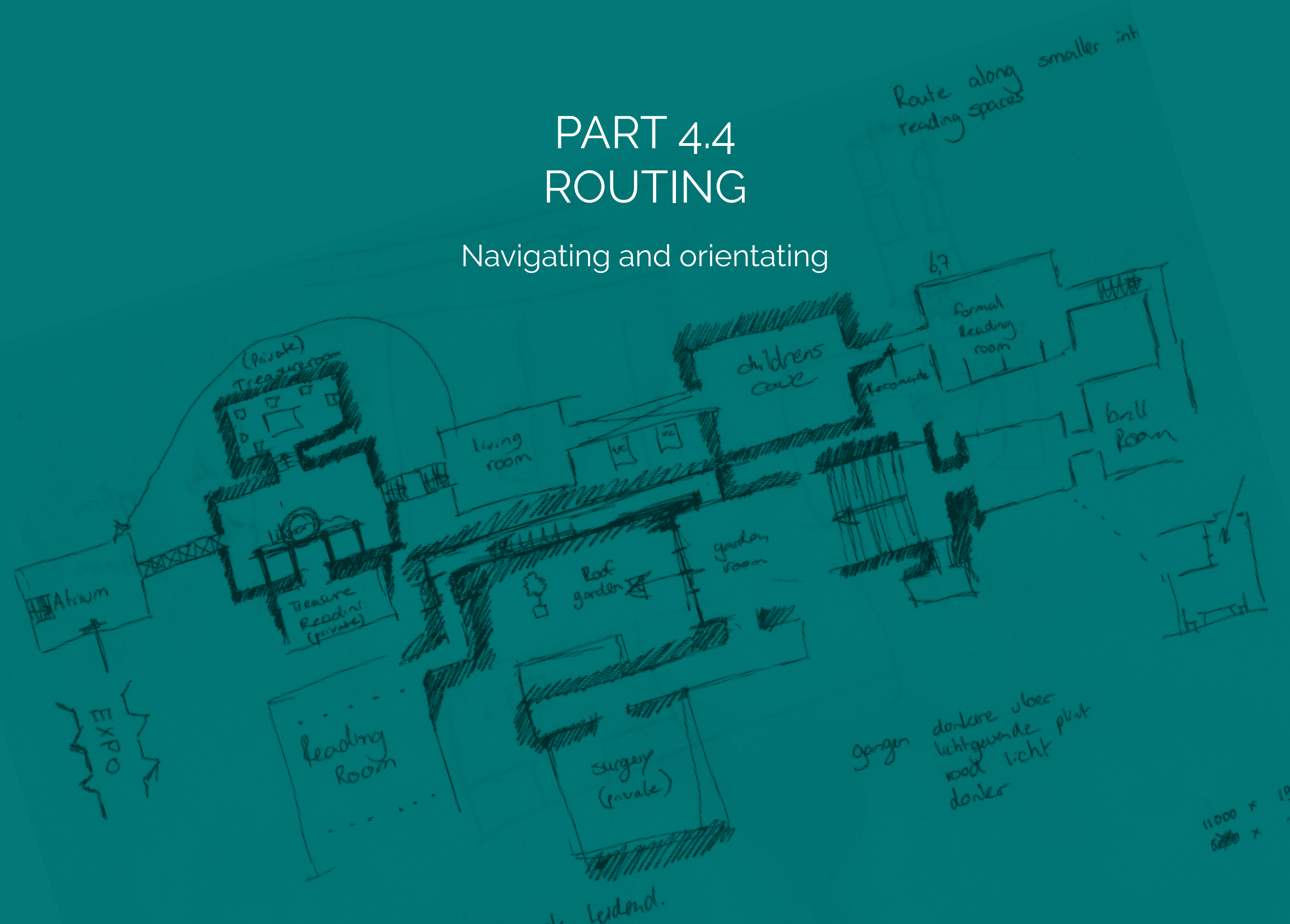
Structure silos

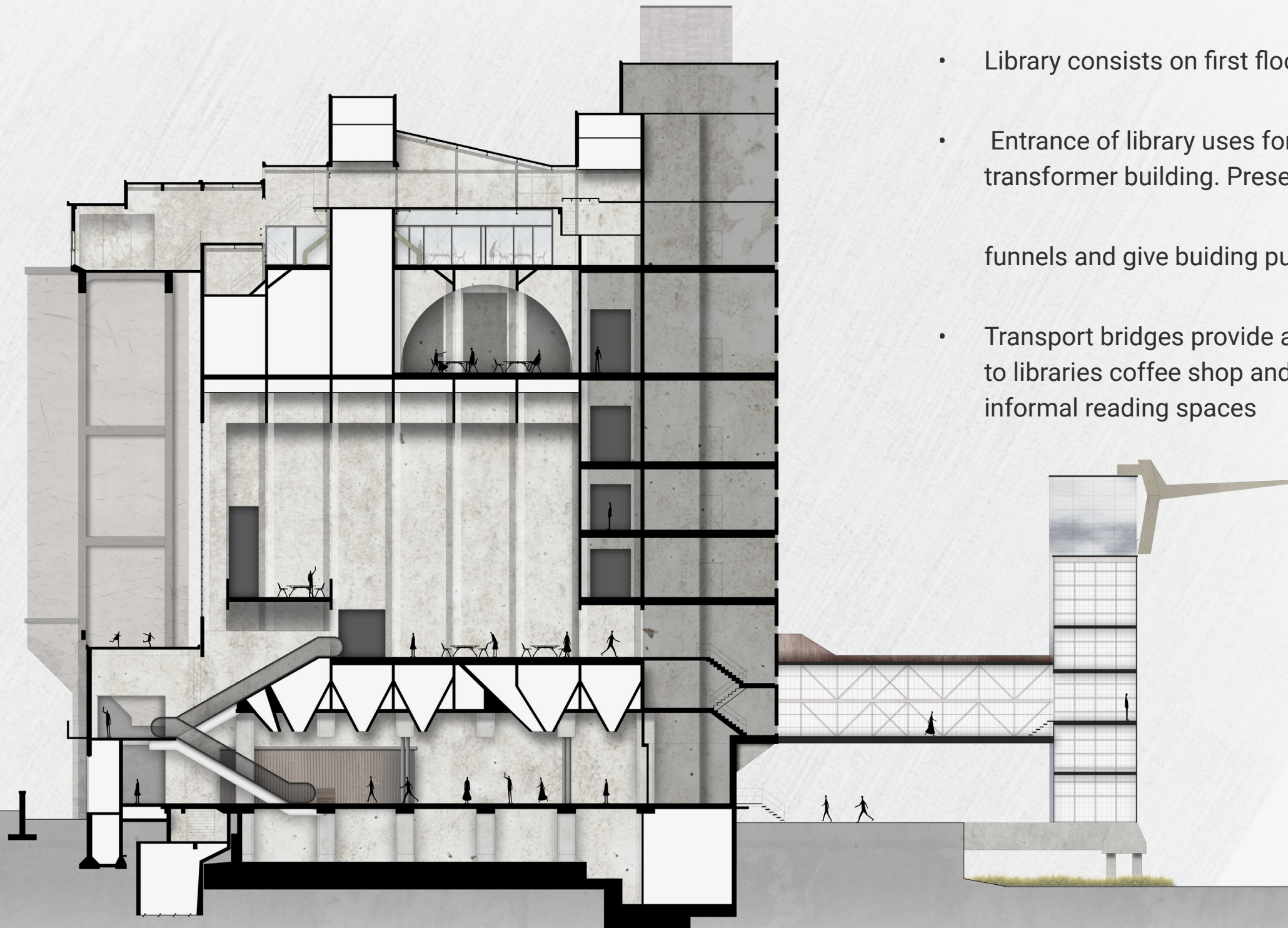
- accentuate structure using lights and grid in floor



PART 4.4 ROUTING

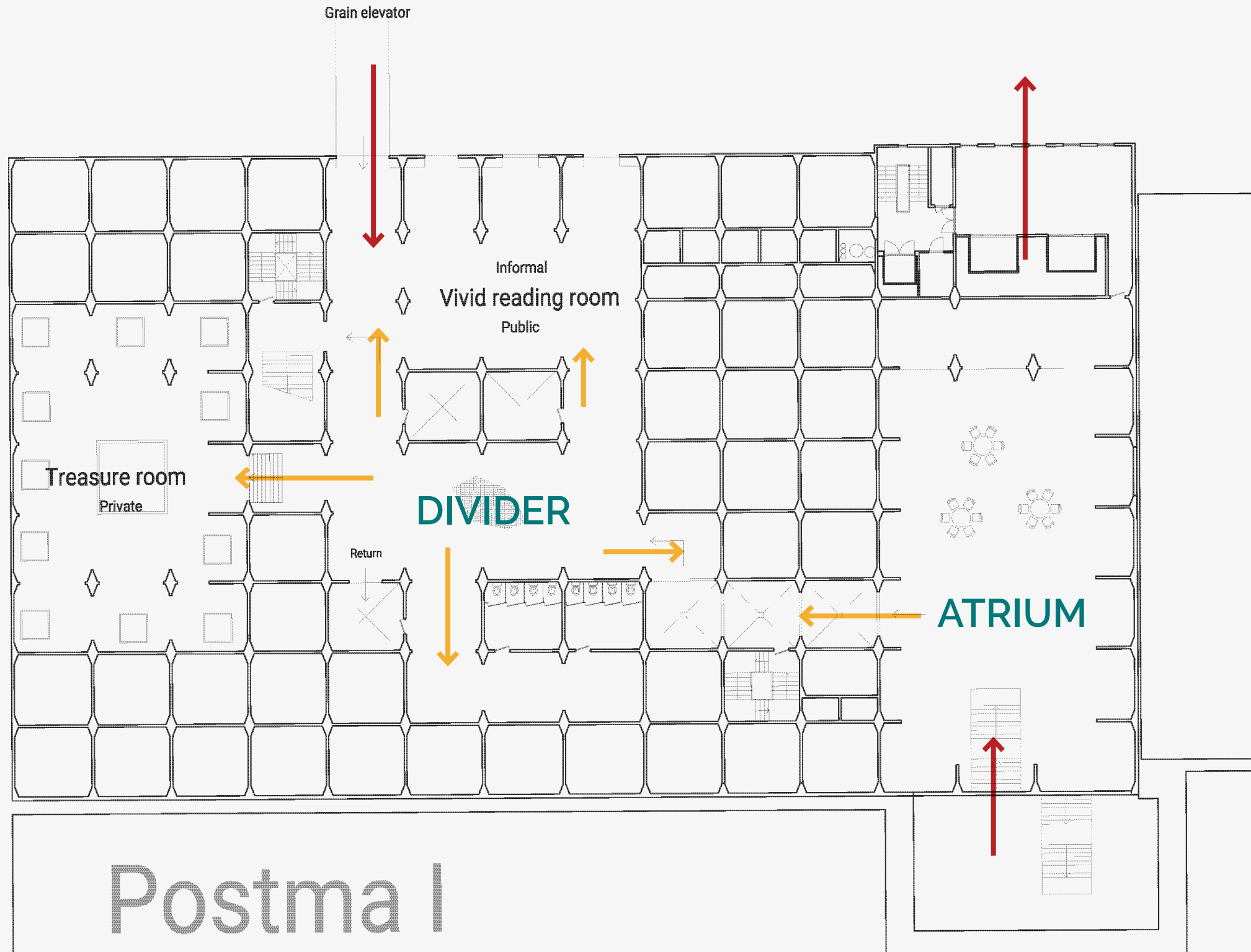
Navigating and orientating





- Library consists on first floor.
- Entrance of library uses former transformer building. Preserve funnels and give buiding purpose.
- Transport bridges provide access to libraries coffee shop and informal reading spaces



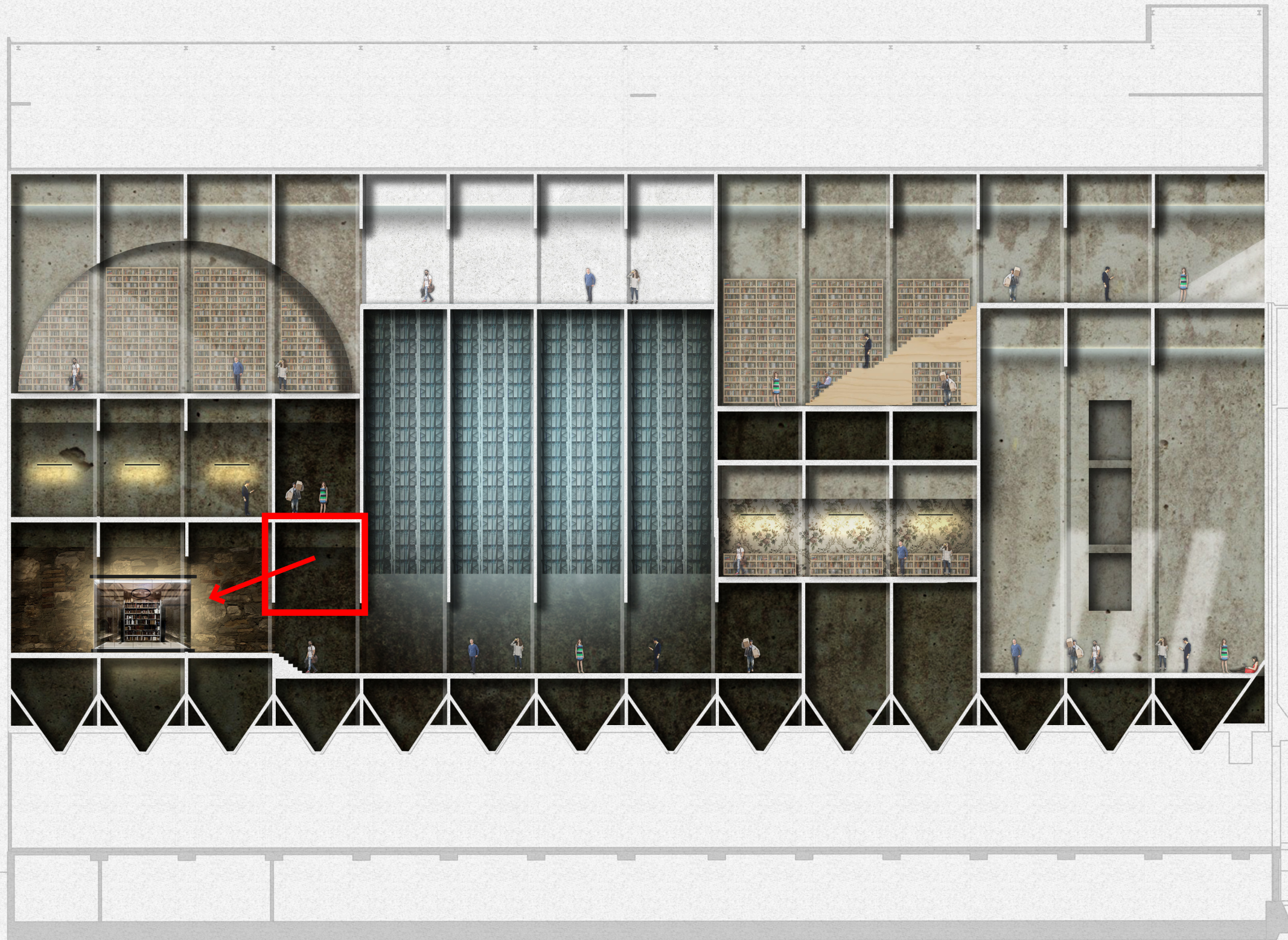


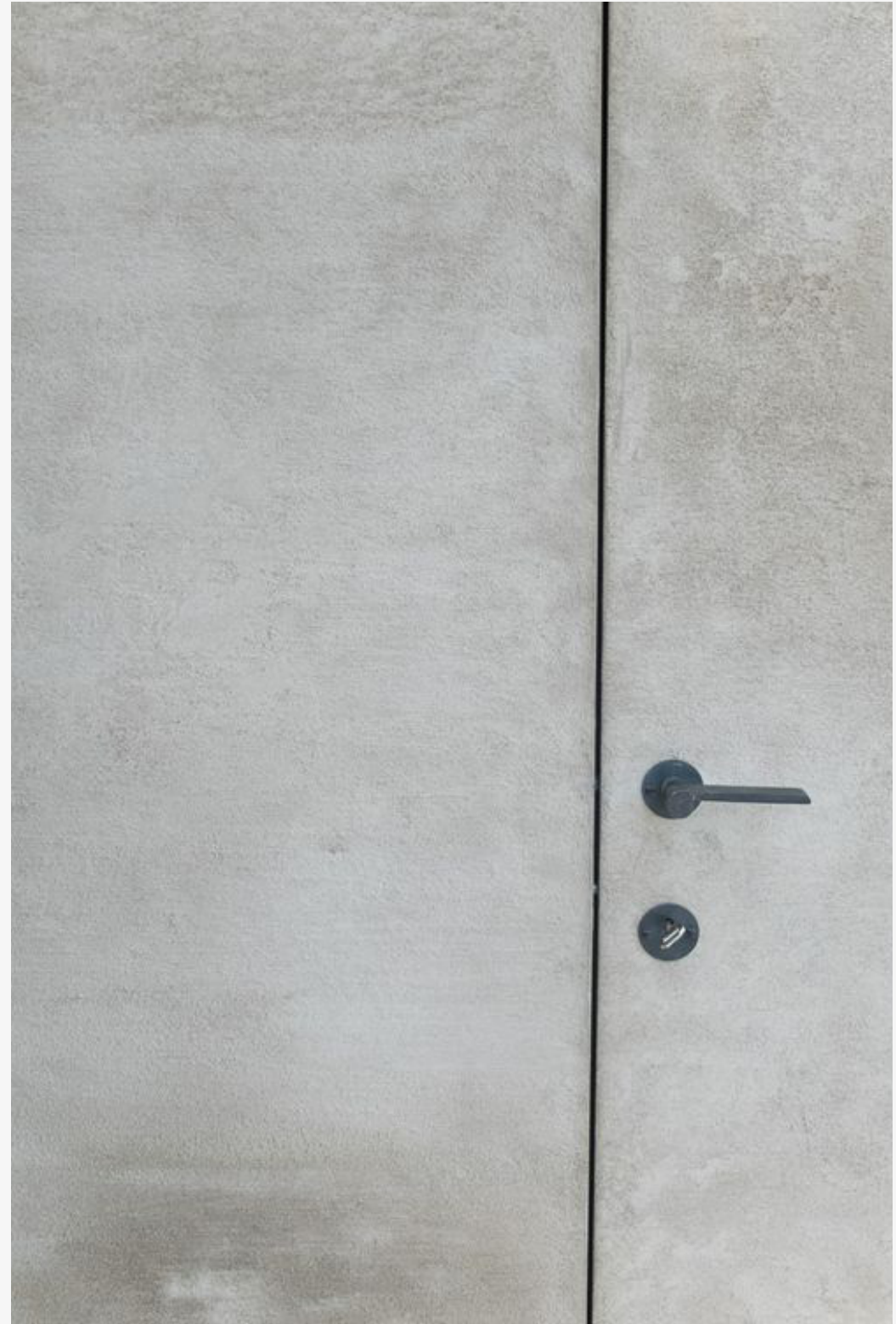
FIRST FLOOR



● VIVID ● PUBLIC ● CORRIDOR ● DARK

openings as orientation





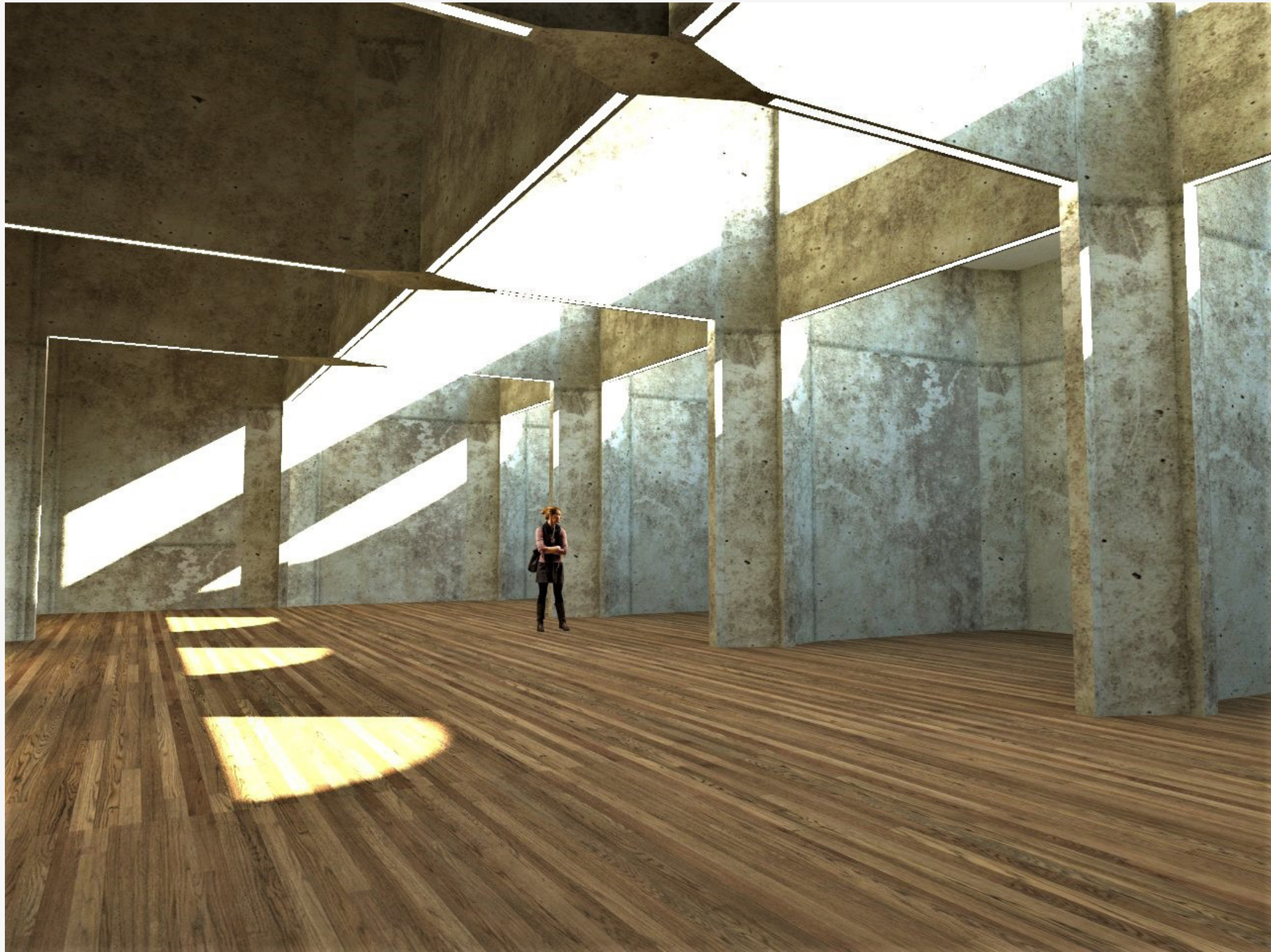




NAVIGATING BY NATURAL LIGHT













THANK YOU



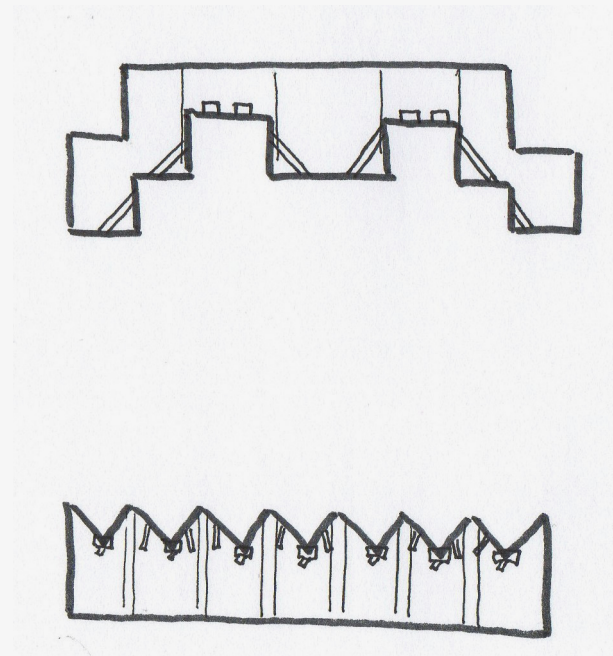
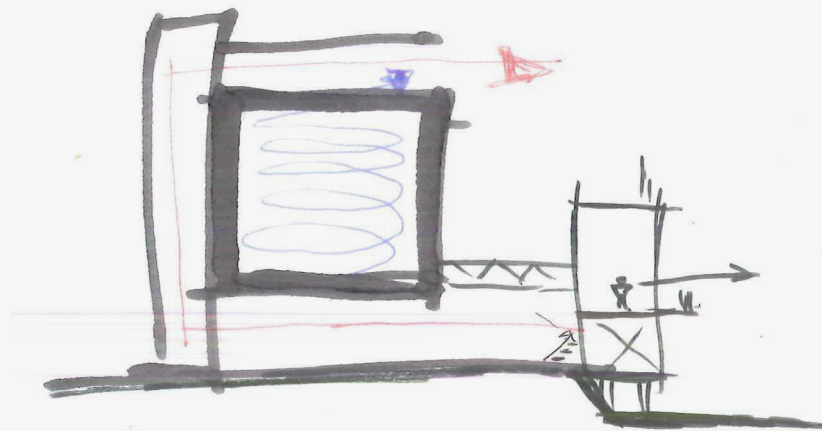


PART 4.4
FACADE

FACADE



Structure forms the expression of the facade. Visible building methods. Details in Stok part and 1 monolyth structure of the Brinkman and vd Vlught.



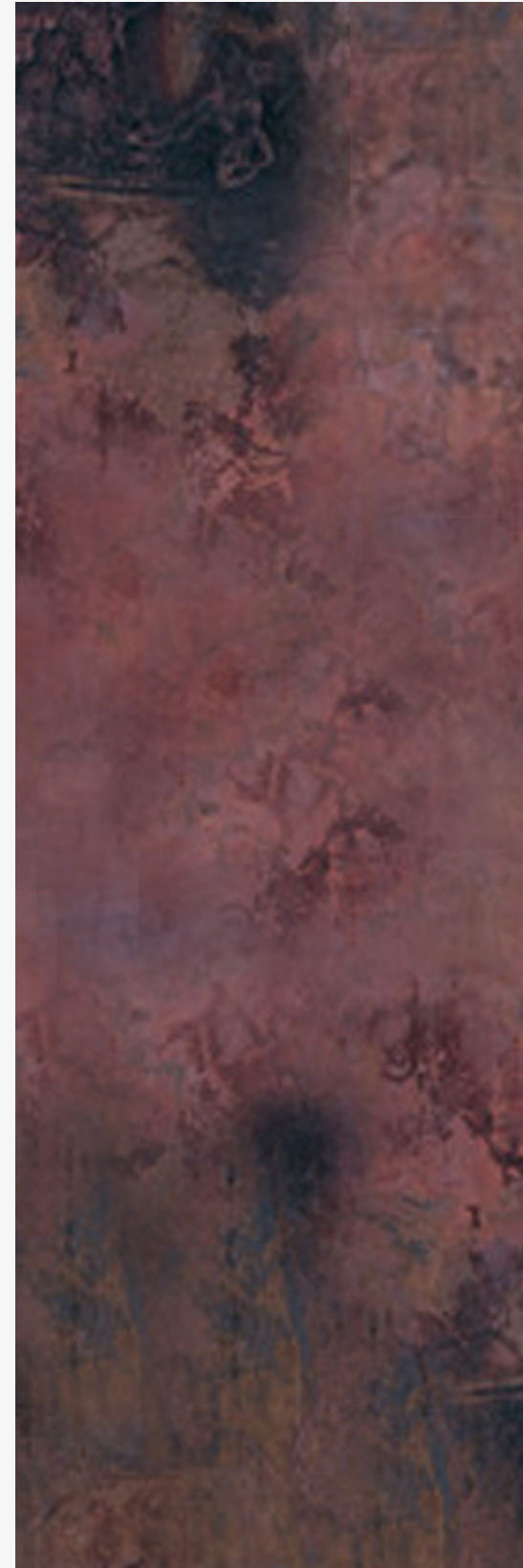
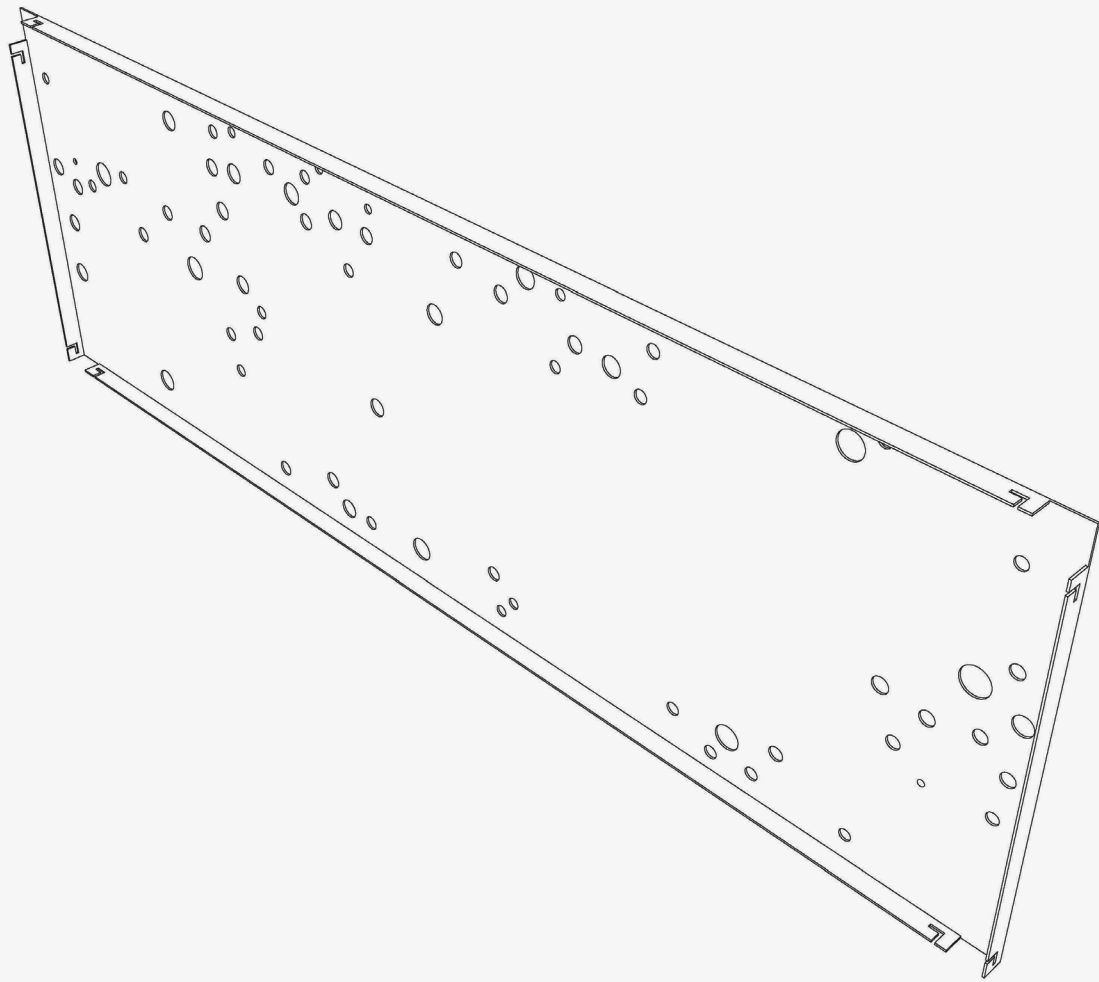
Open up the spaces designed for people. Keep the spaces for grain and books closed

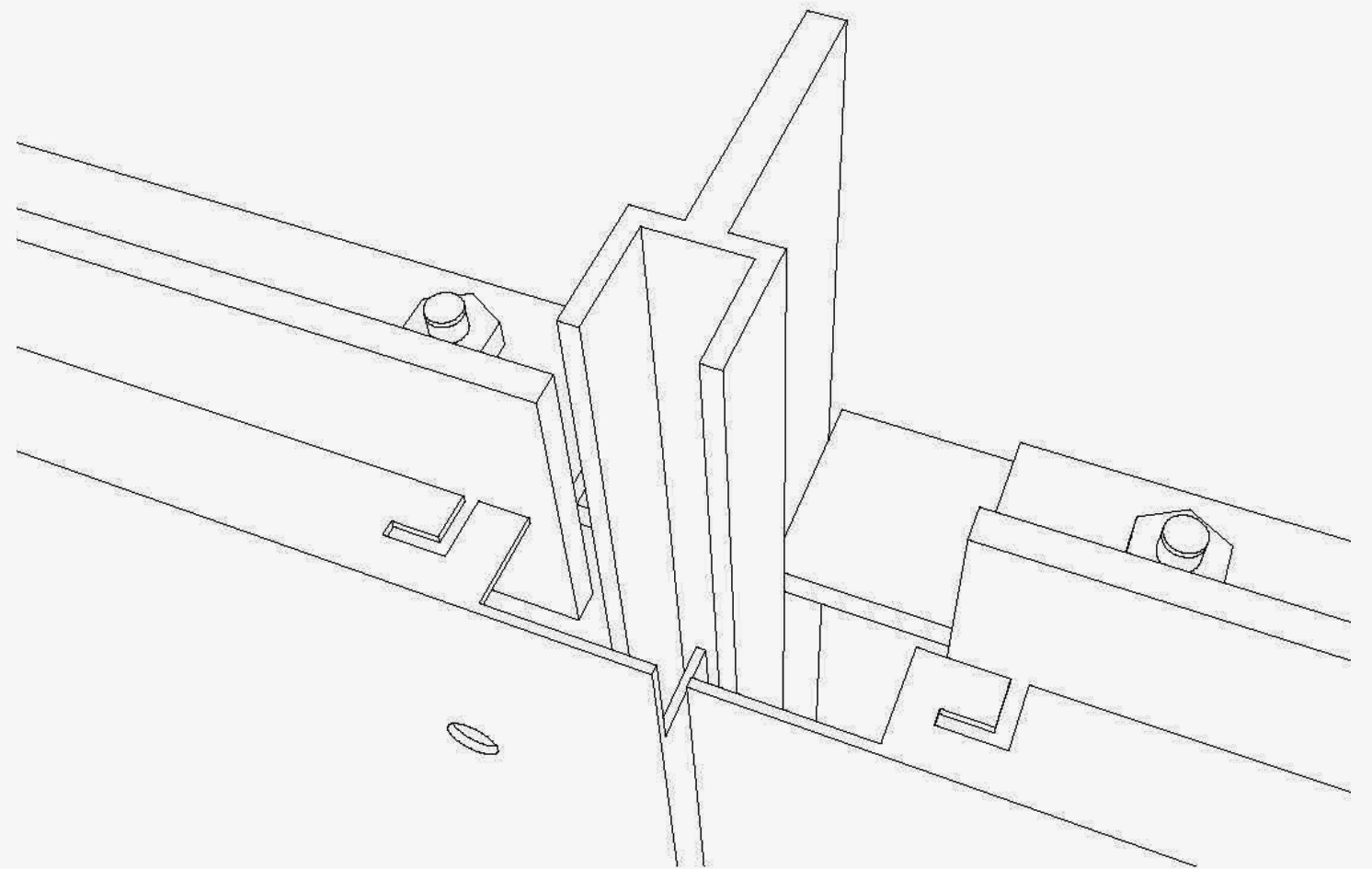
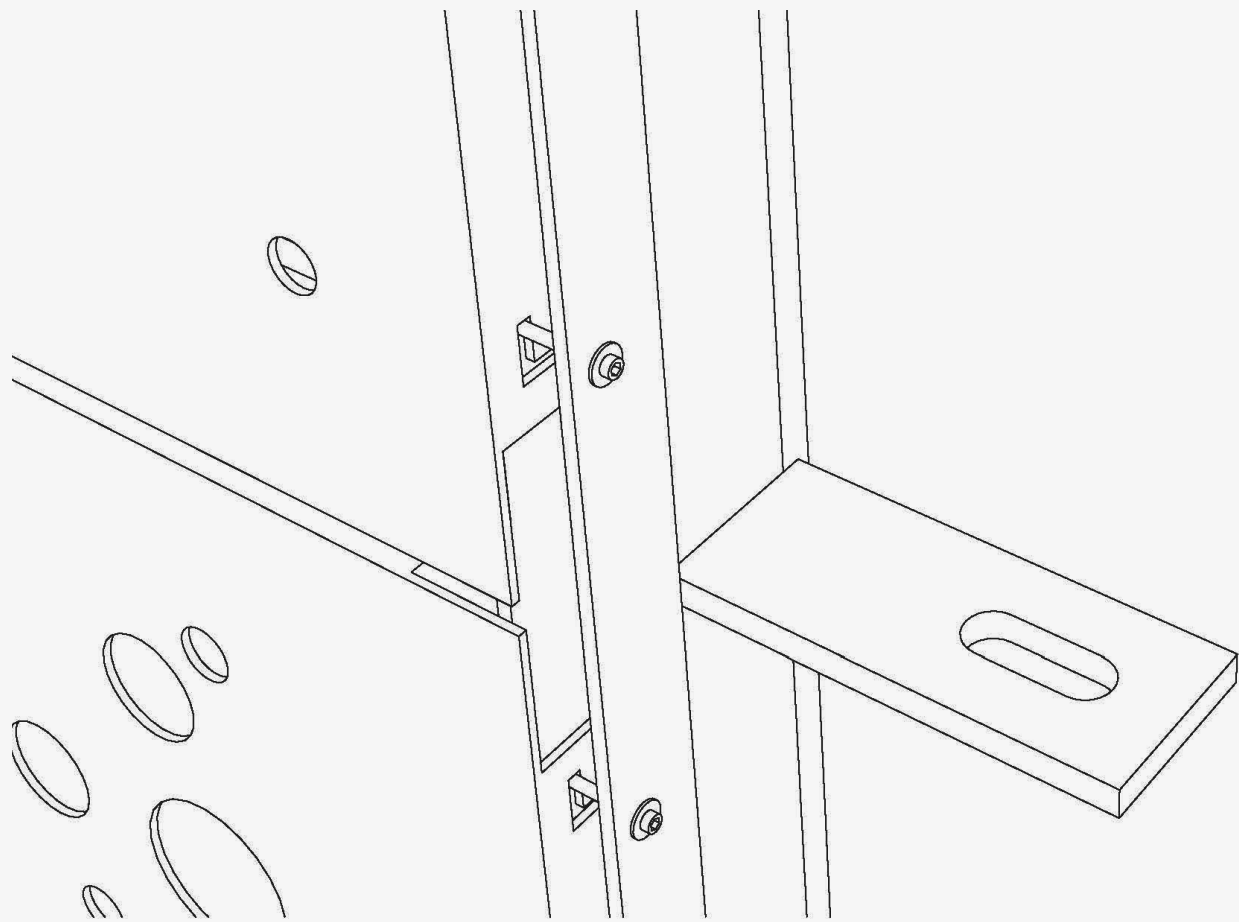


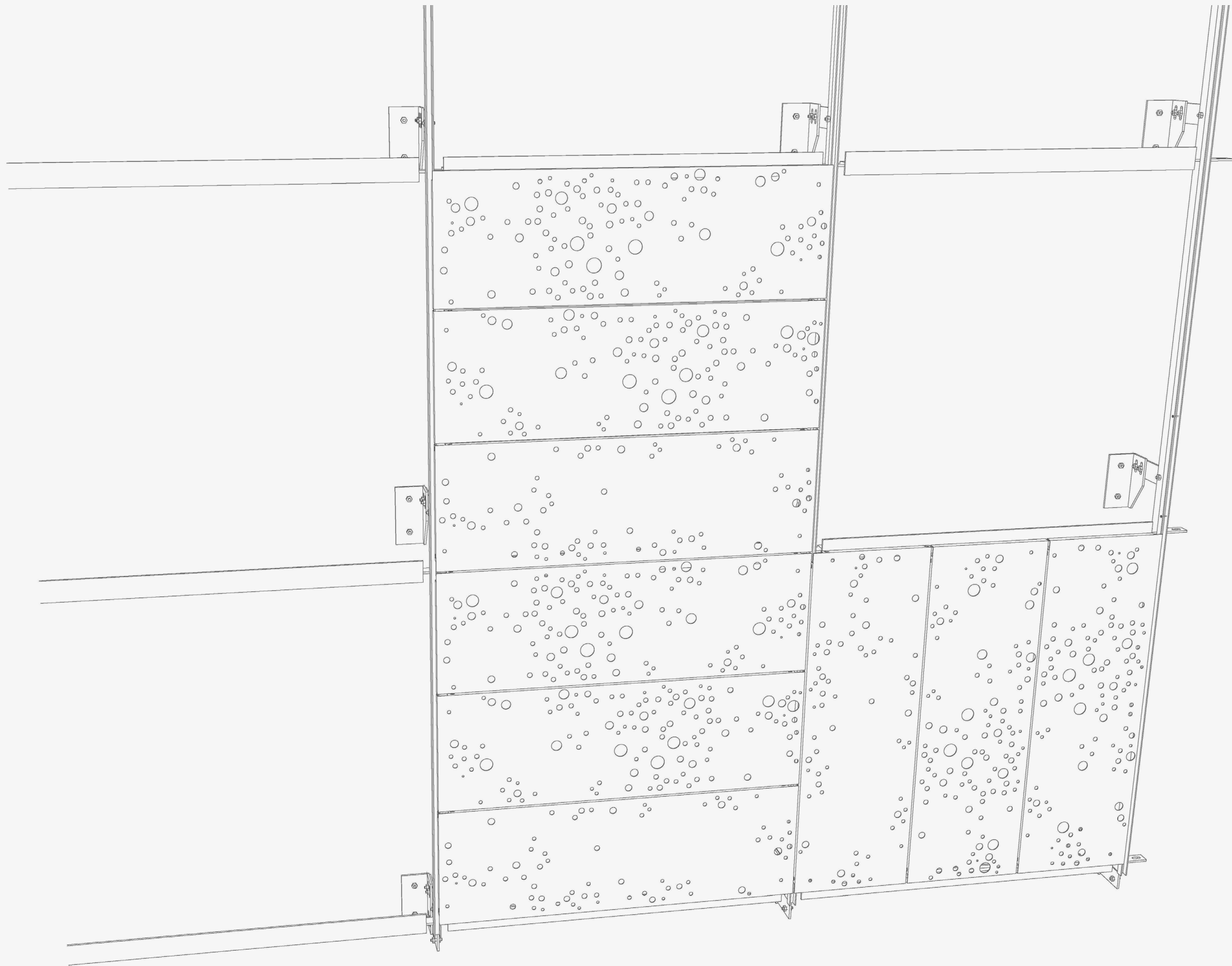


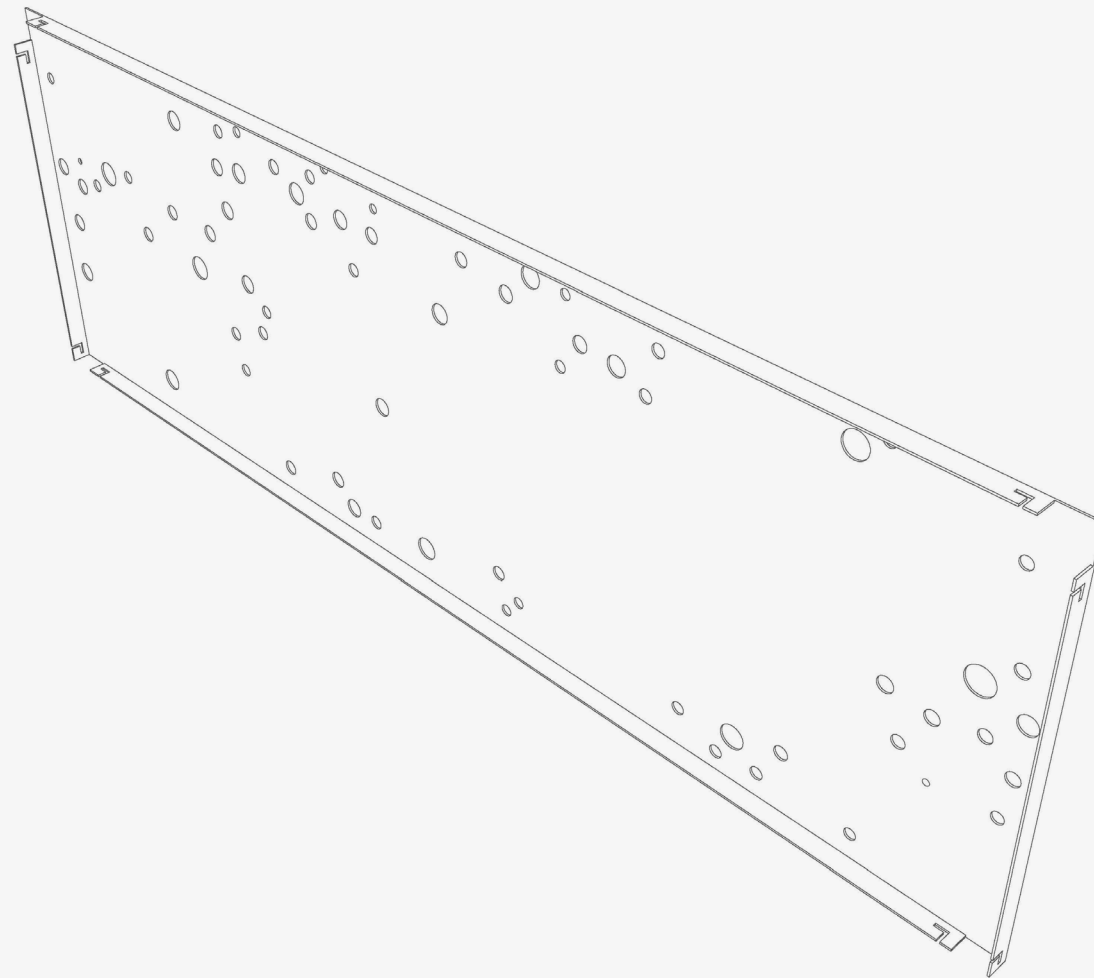
N:V:GRAANSILOM!

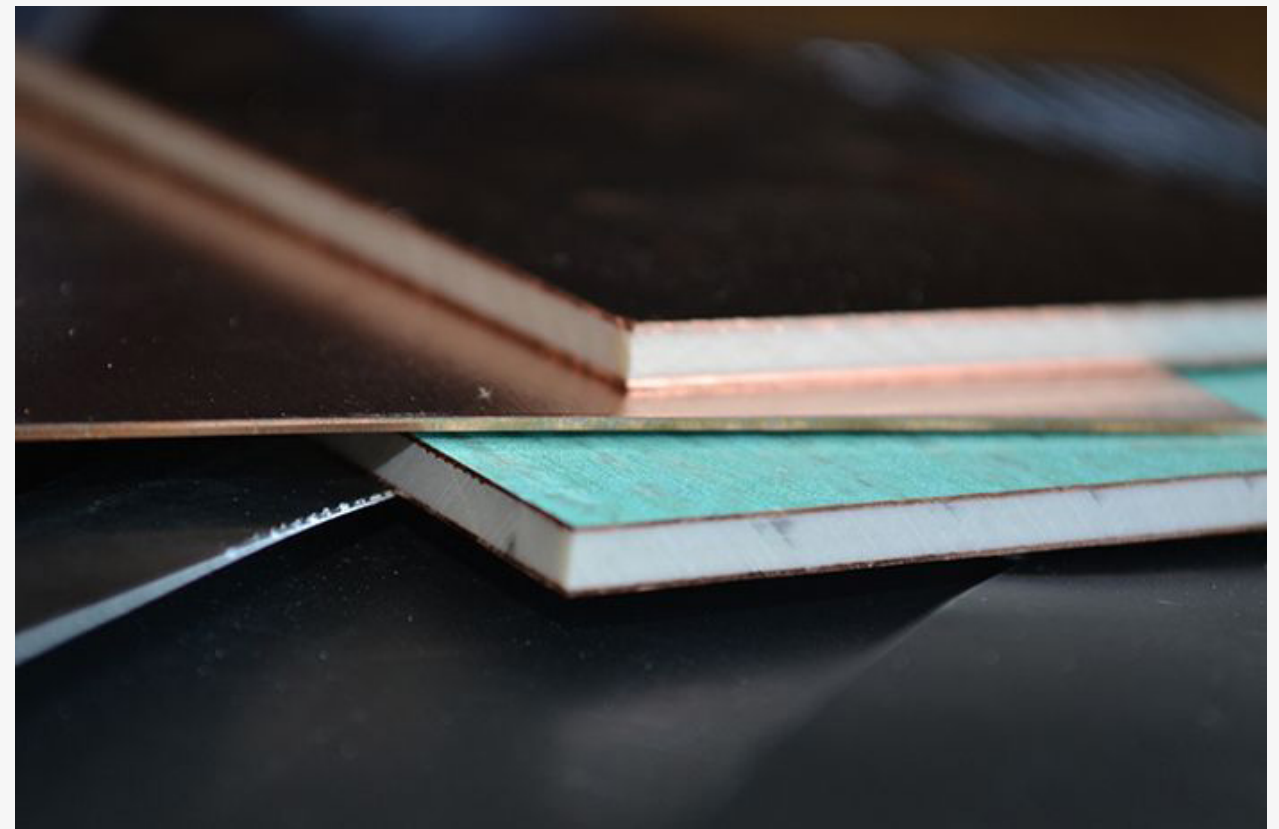
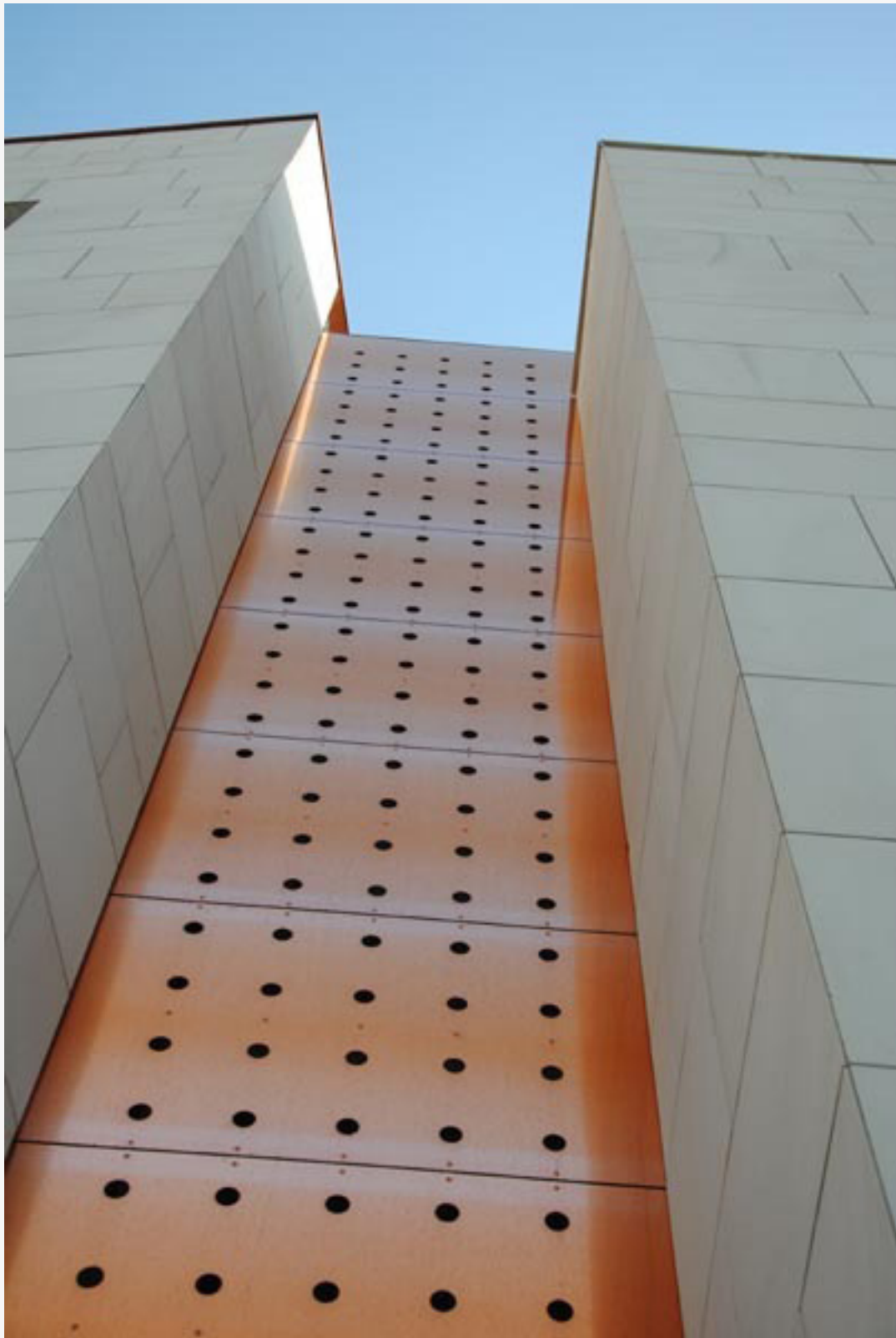


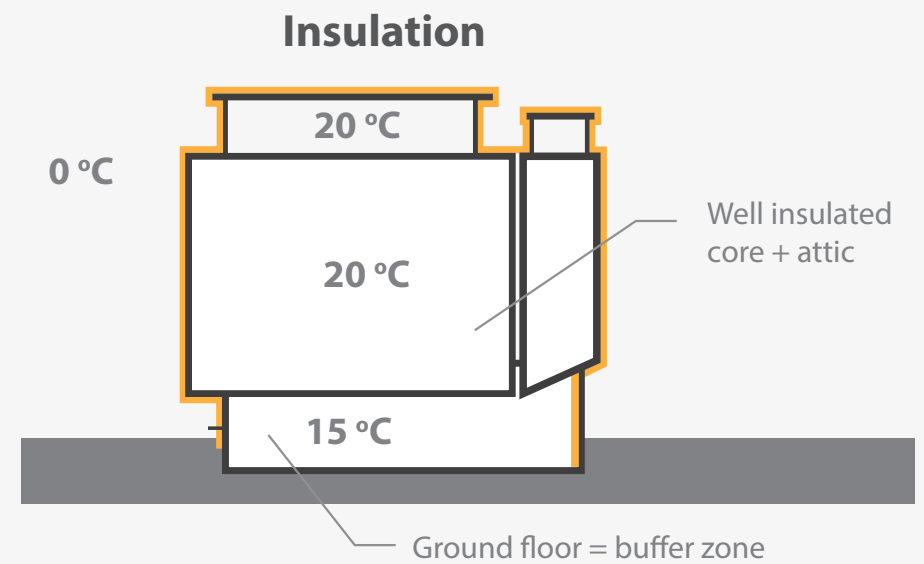
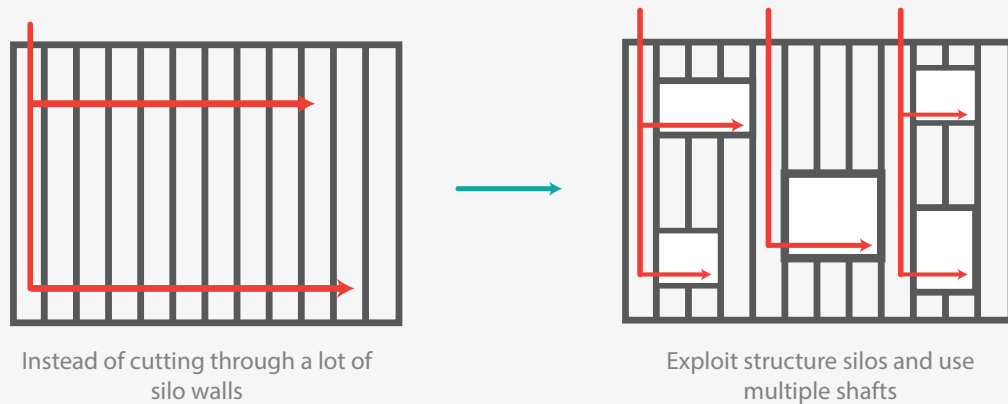
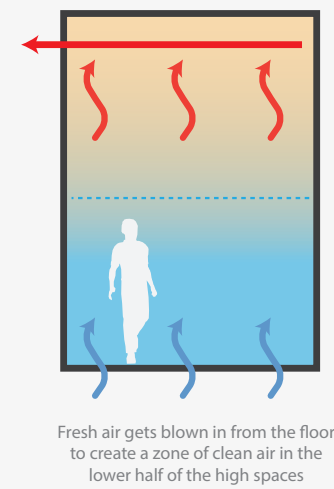
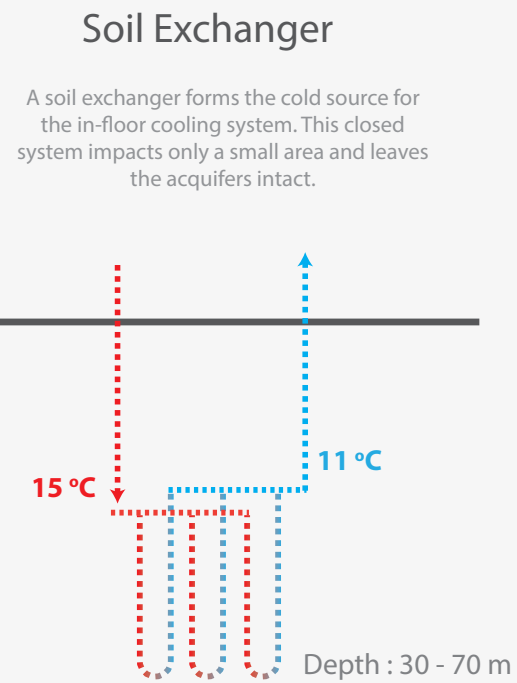
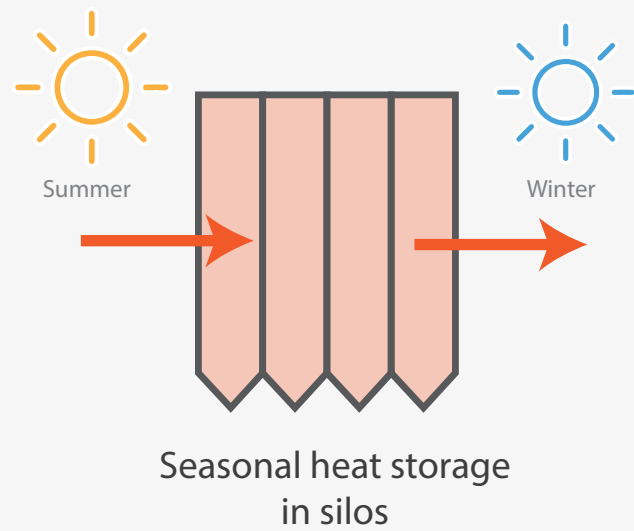






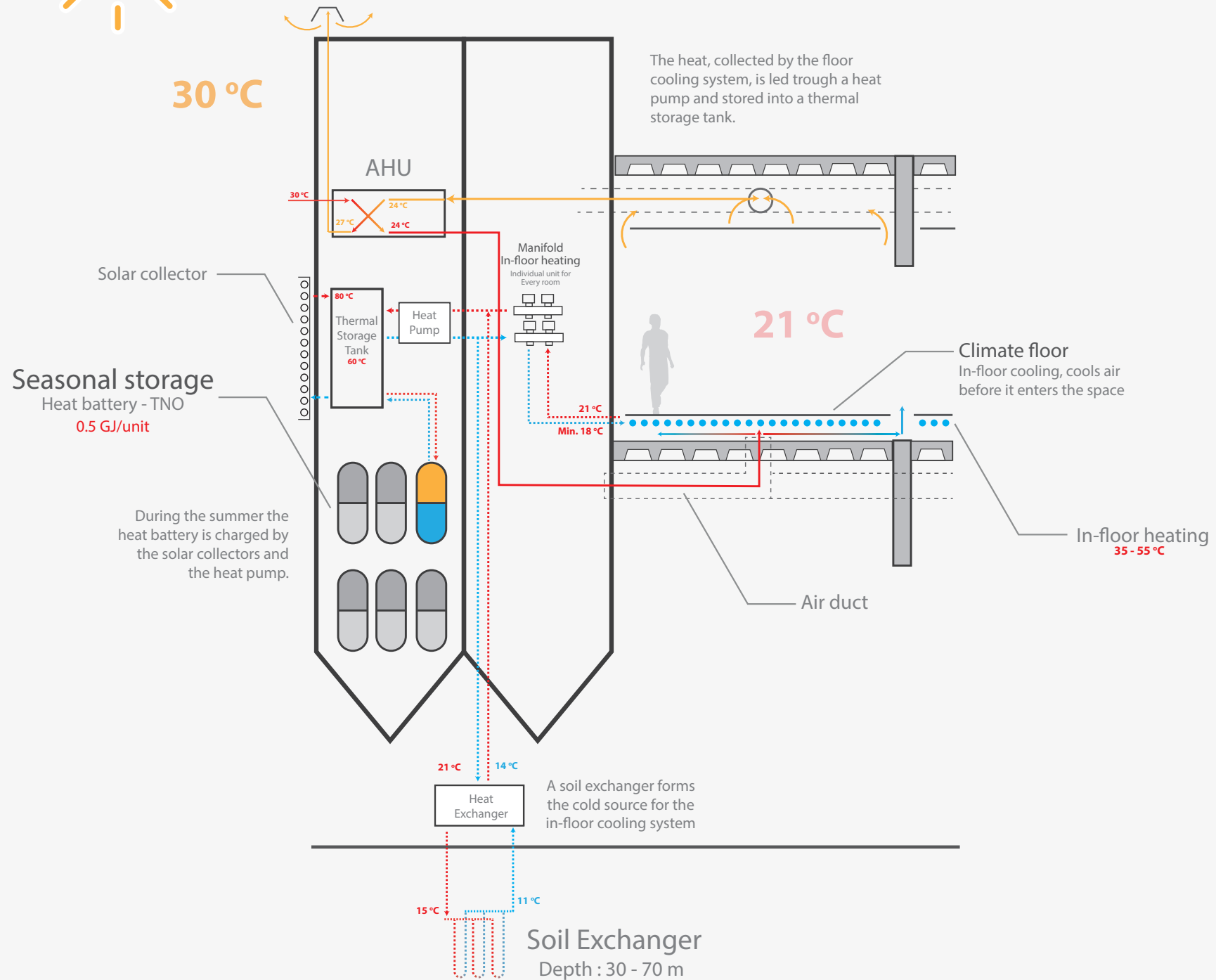








Summer



Winter

