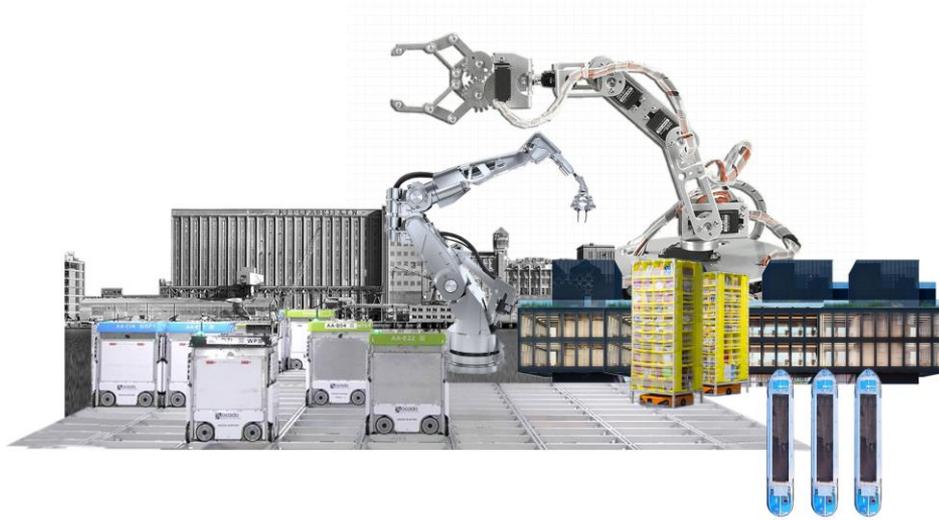


AMBIDEXTROUS PORT

CP

Arda Ertan Yildiz

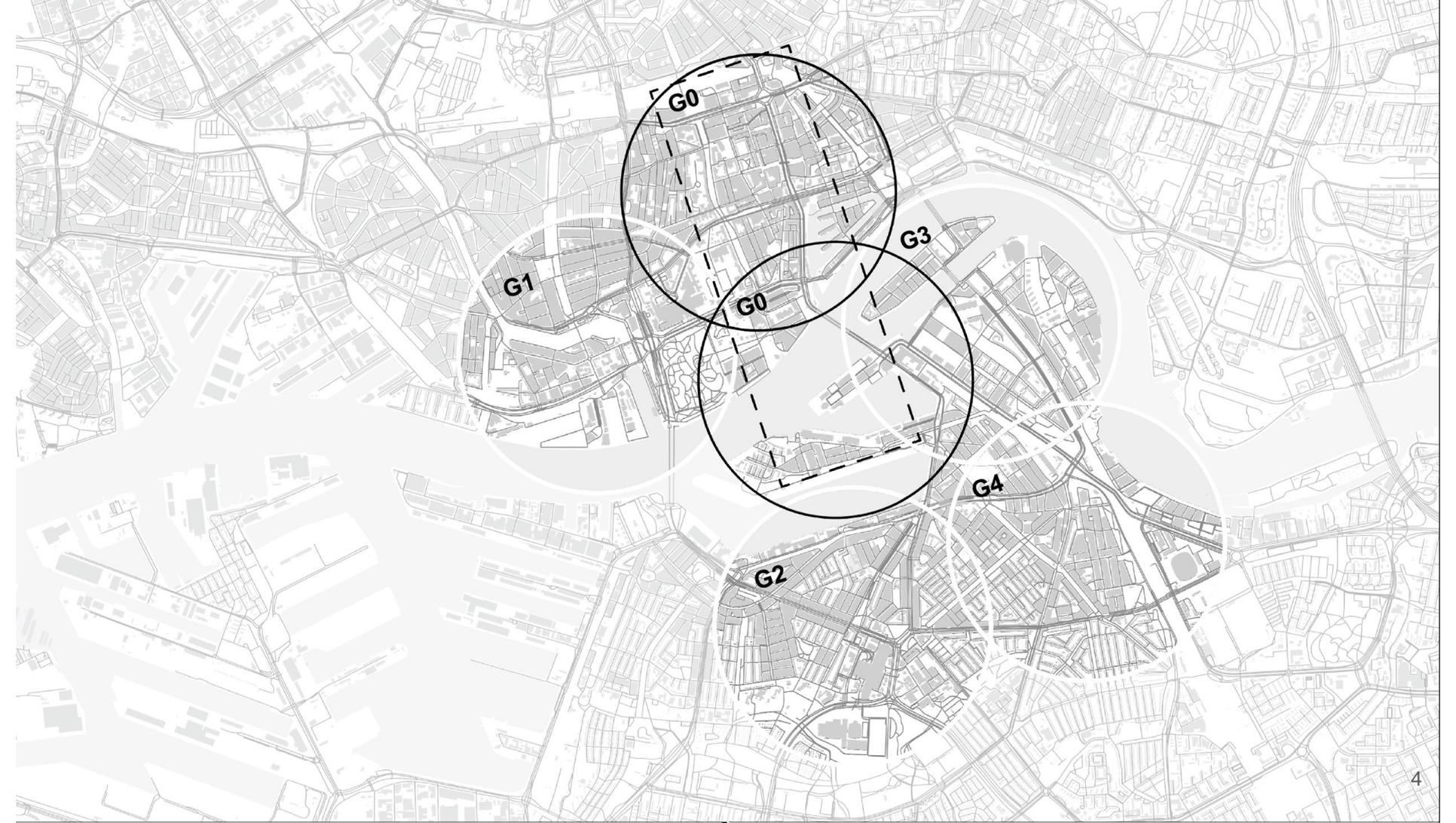


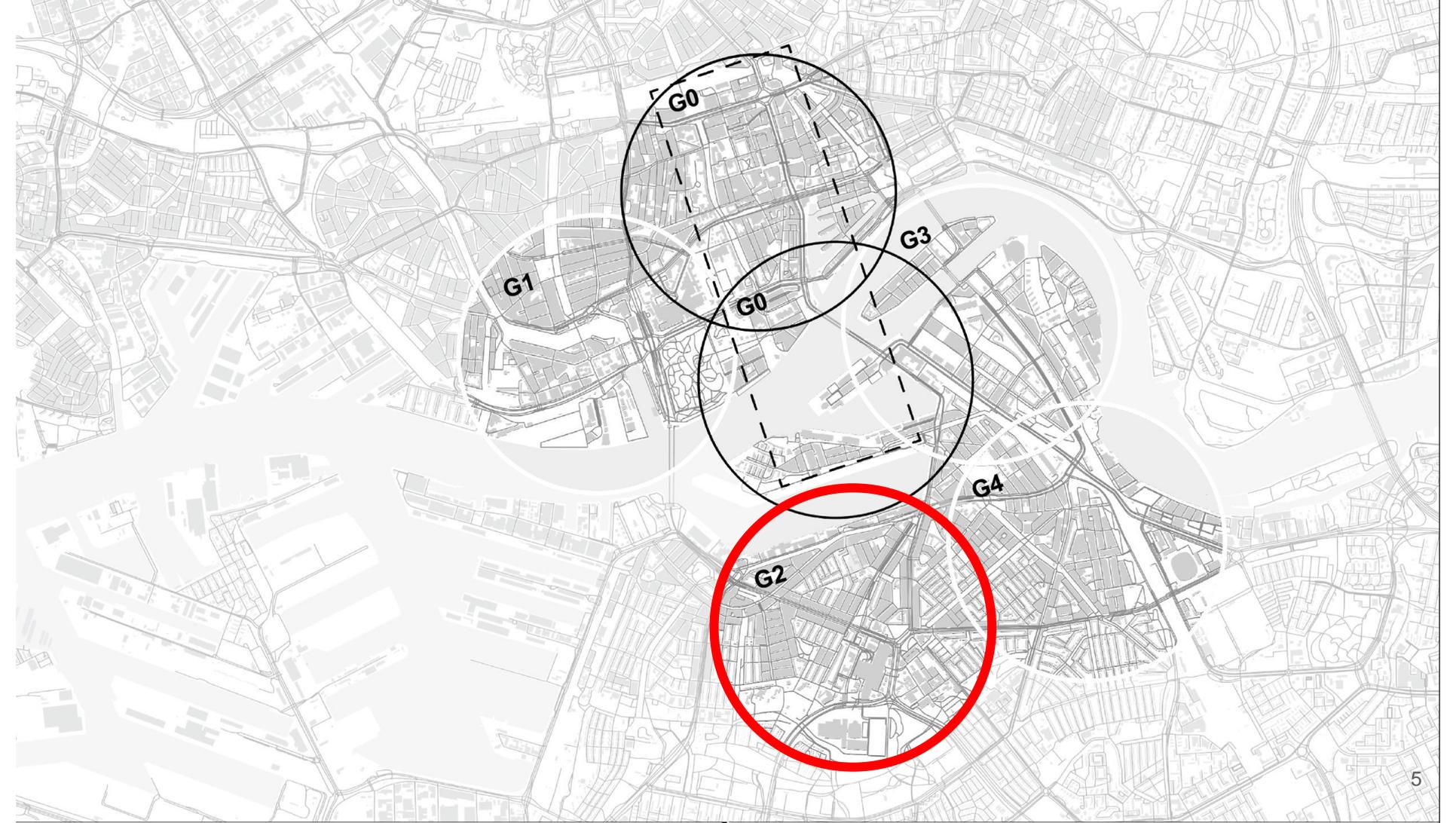
Logistics Hub for Goods and People

Warehouse, Distribution Center and Terminal

Utilizing inland waterways for efficient transportation







G0

G1

G0

G3

G4

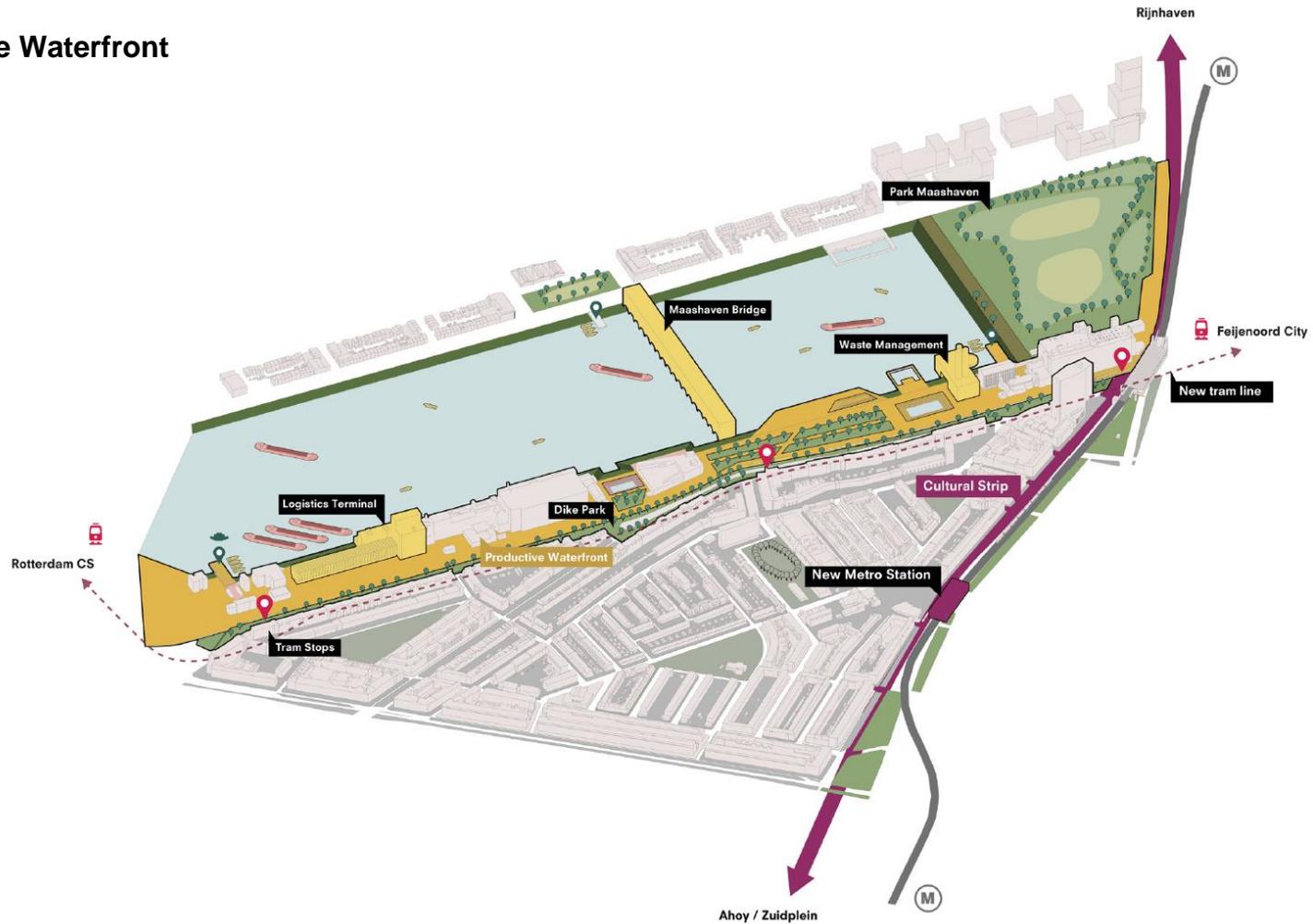
G2

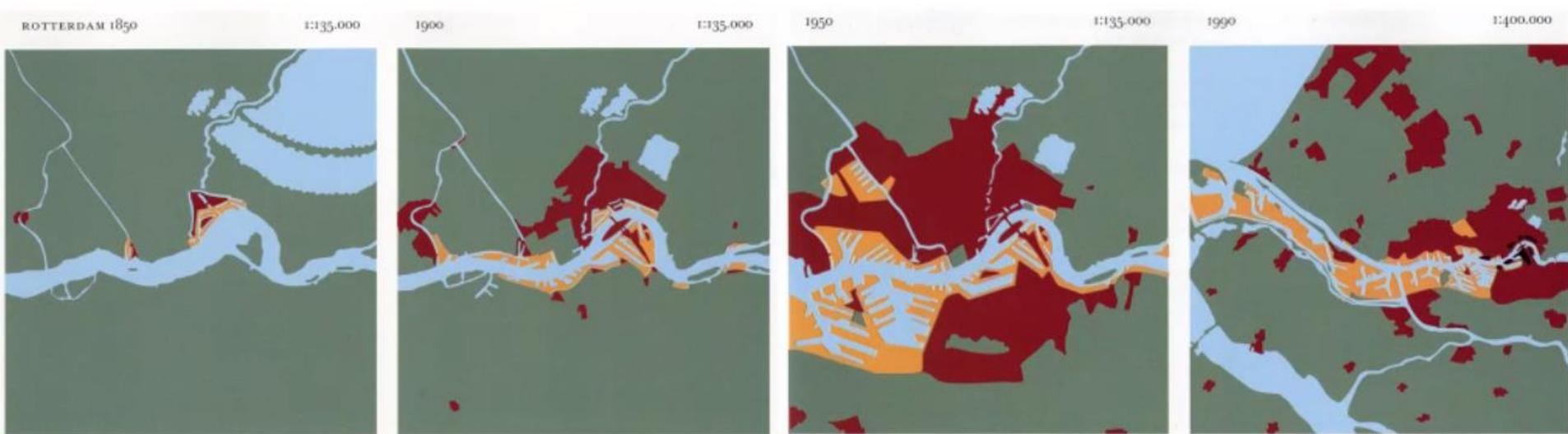
Group Site Plan



0 250 m 500 m

Productive Waterfront



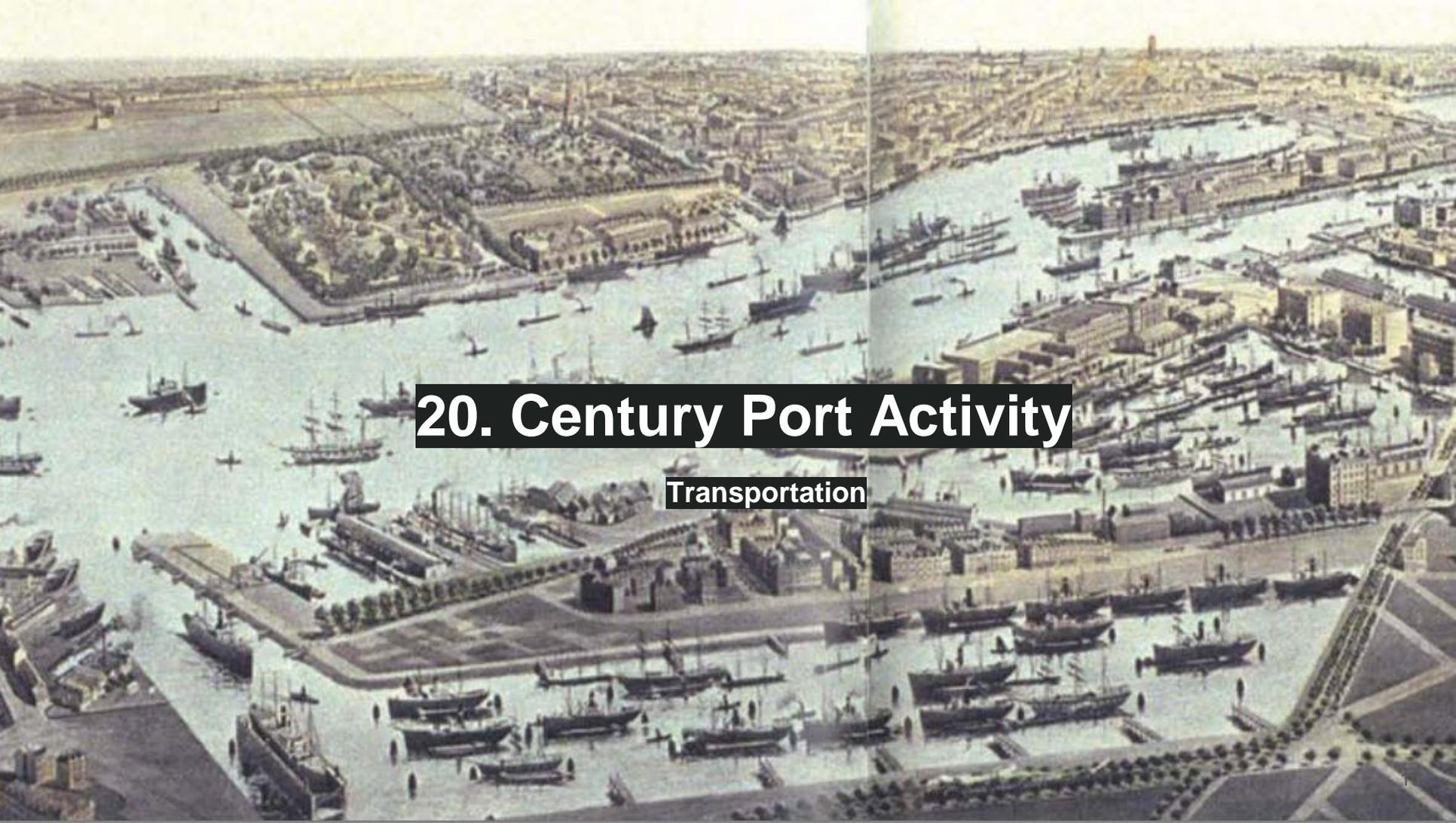


FROM 19TH TO 21ST CENTURY

source: Han Meyer, City and Port (1999)

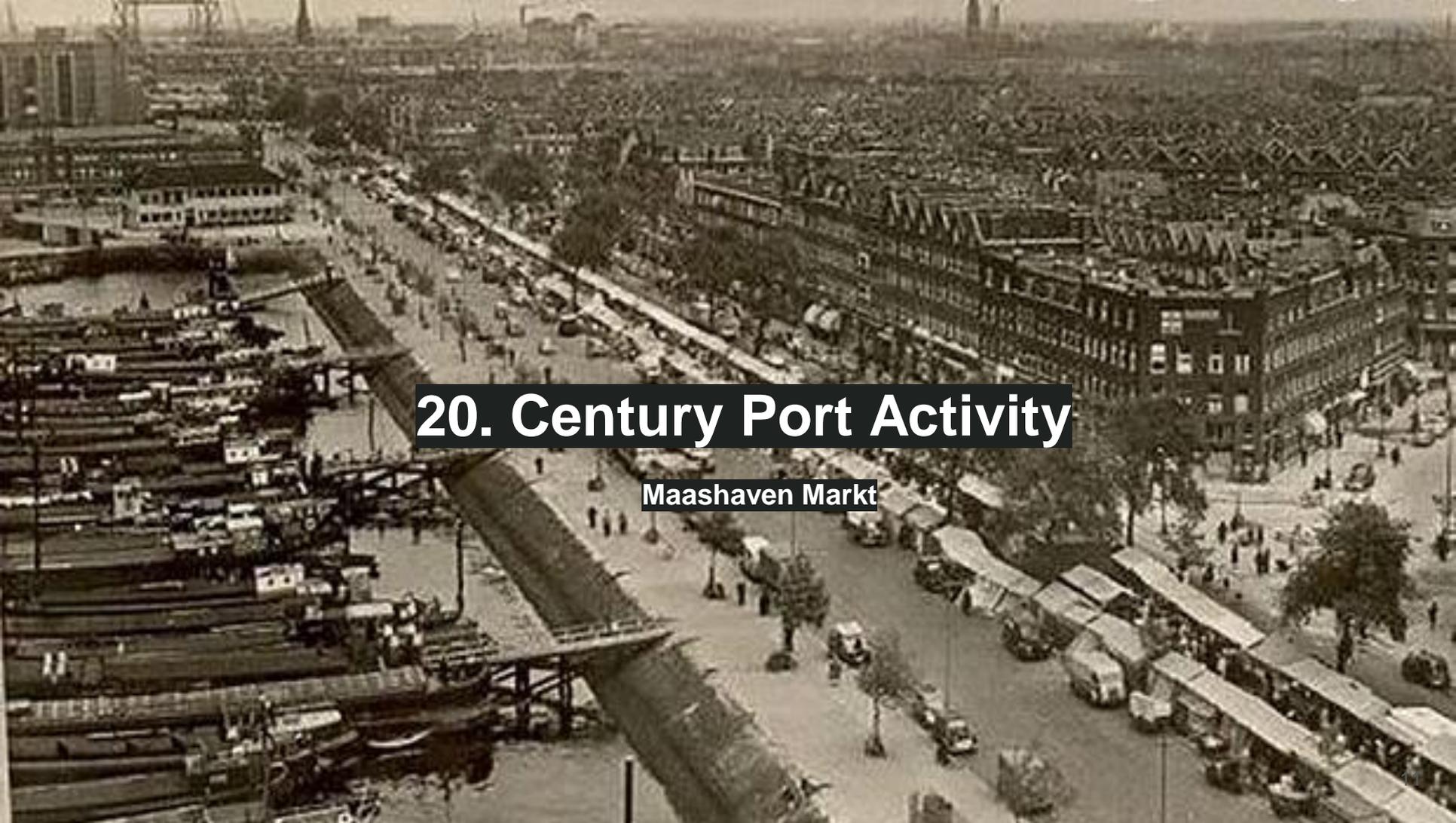
A photograph of a busy city street. In the foreground, a dark grey station wagon is partially visible on the left. A line of cars is parked or moving along the road. In the background, a large concrete bridge spans across the scene. A yellow LIDL sign is visible on a pole. The sky is blue with scattered white clouds. A black banner with white text is overlaid in the center of the image.

City Logistics & Mobility



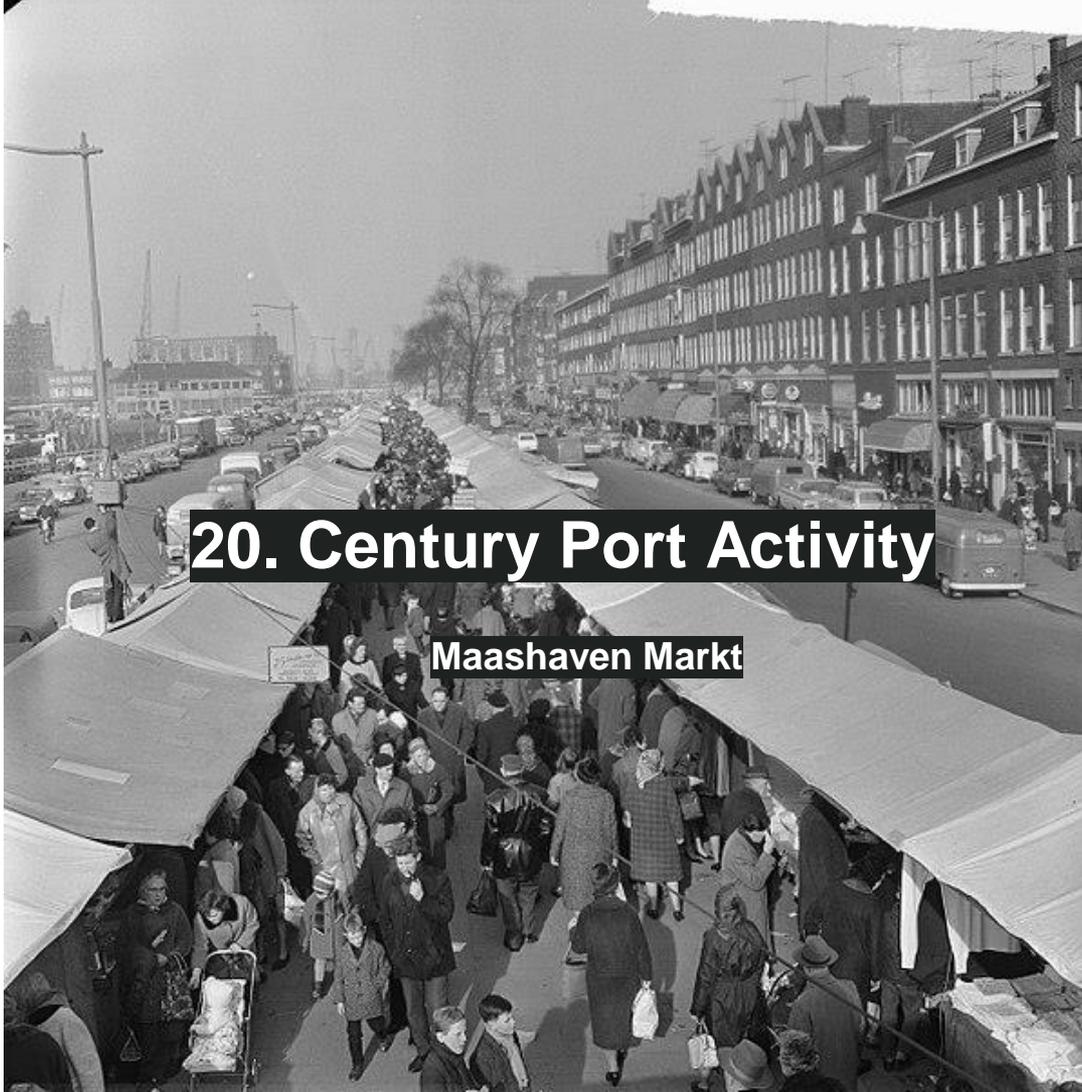
20. Century Port Activity

Transportation



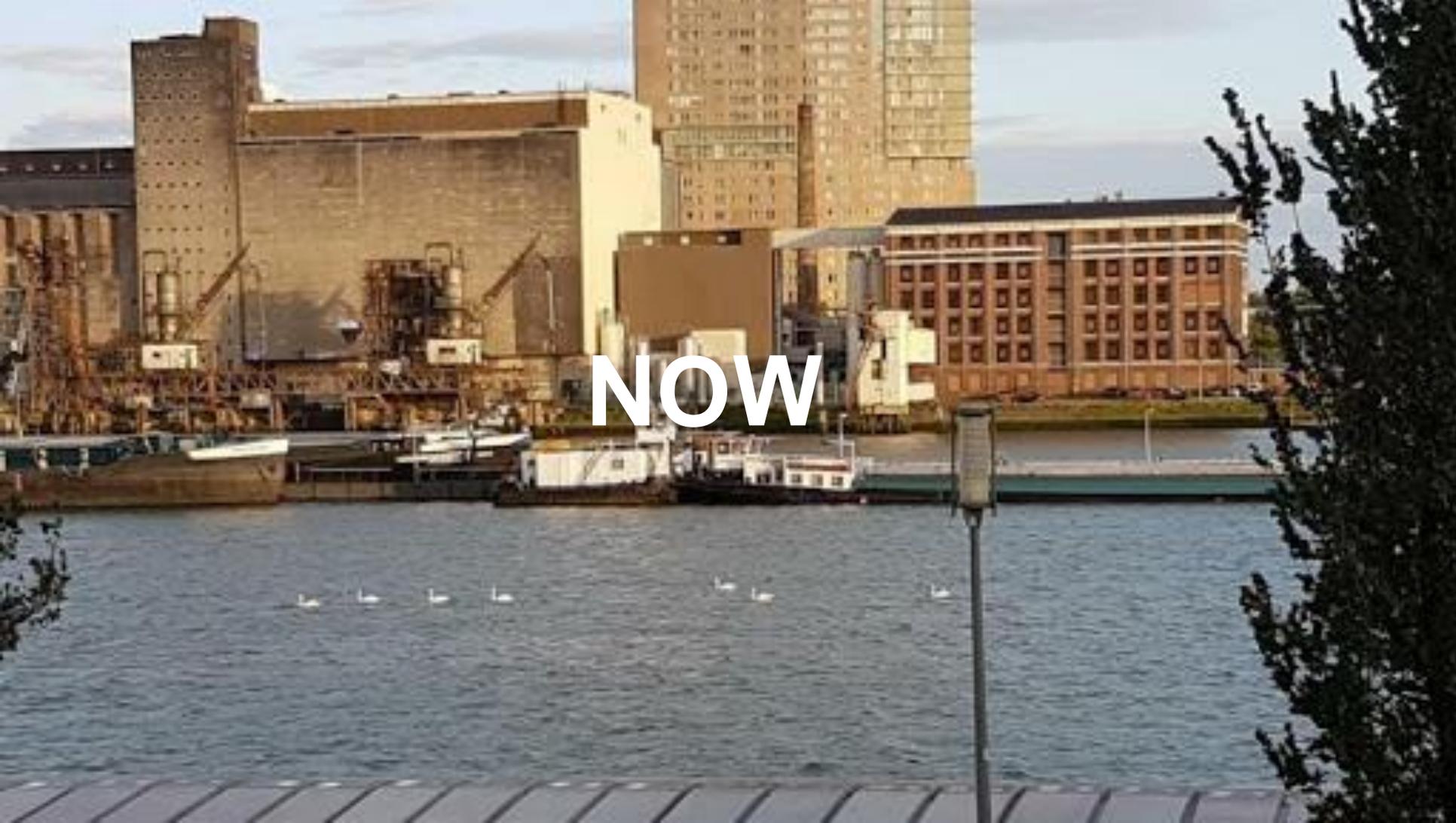
20. Century Port Activity

Maashaven Markt



20. Century Port Activity

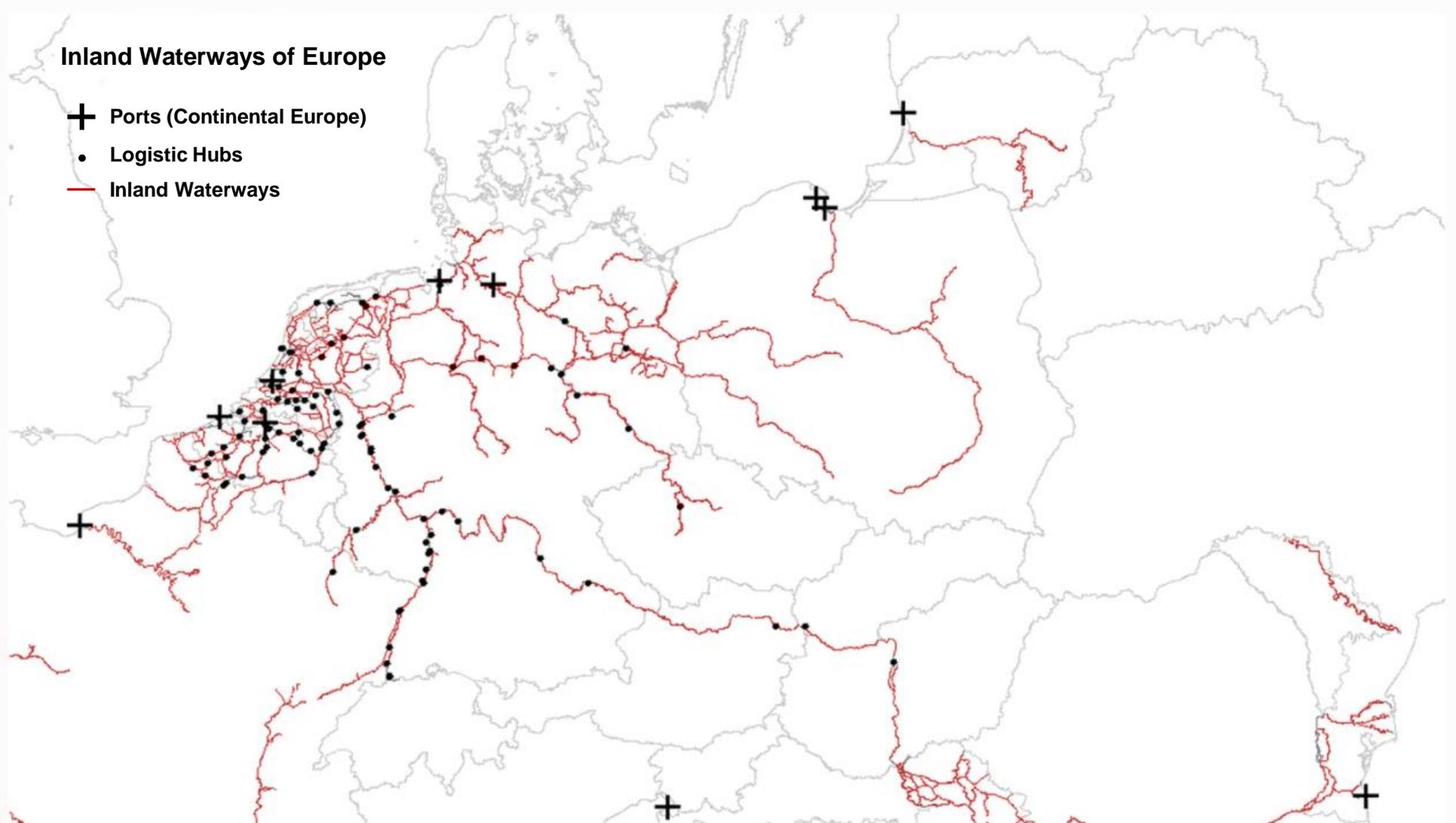
Maashaven Markt



NOW

Inland Waterways of Europe

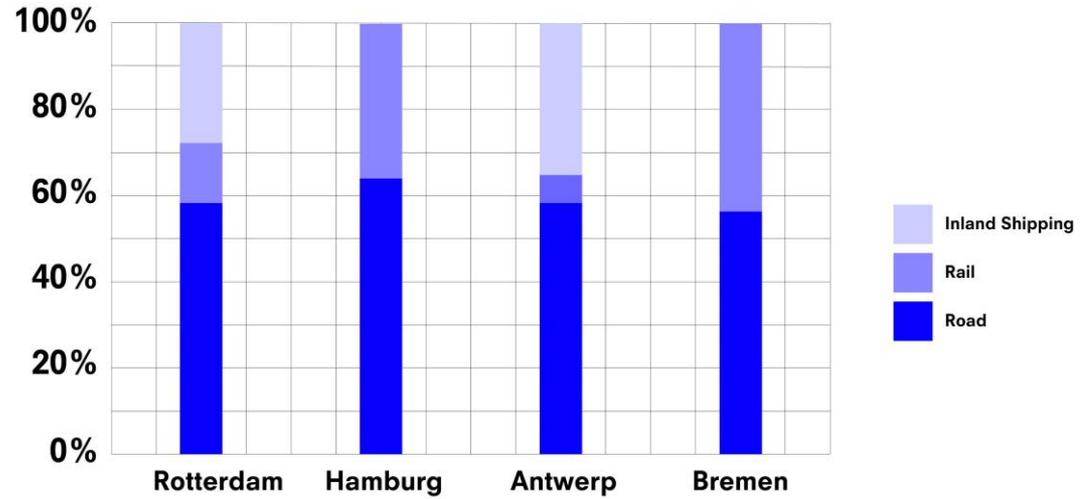
- ✚ Ports (Continental Europe)
- Logistic Hubs
- Inland Waterways



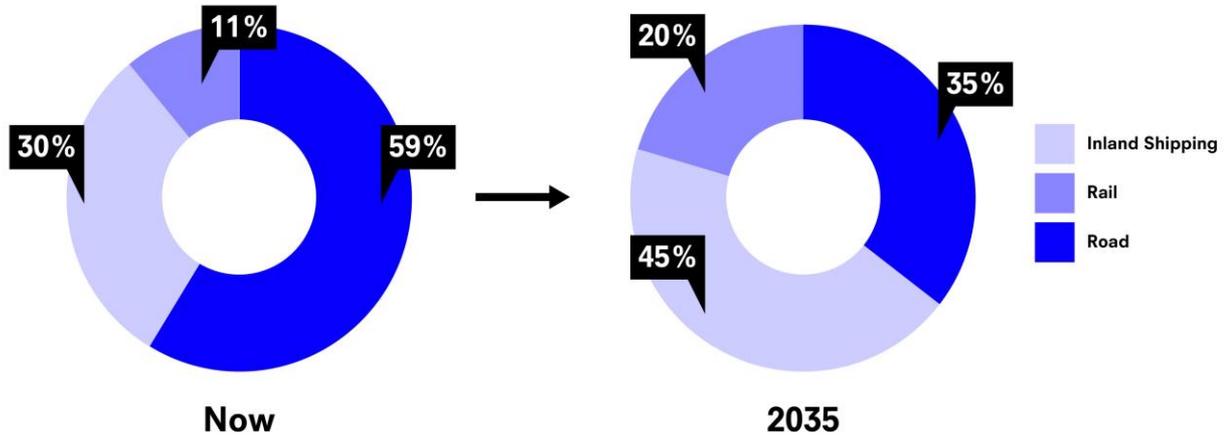
Inland Waterways of Netherlands



Port of Rotterdam Modal Split



Port of Rotterdam 2035 Aim



Research Question

How can we revitalize obsolete waterfront areas to incorporate flows of inland shipping and inland public transportation to improve city logistics?

Logistics



Programme



Programme



Programme



Logistics +

Programme



**Logistics +
Workspaces +**

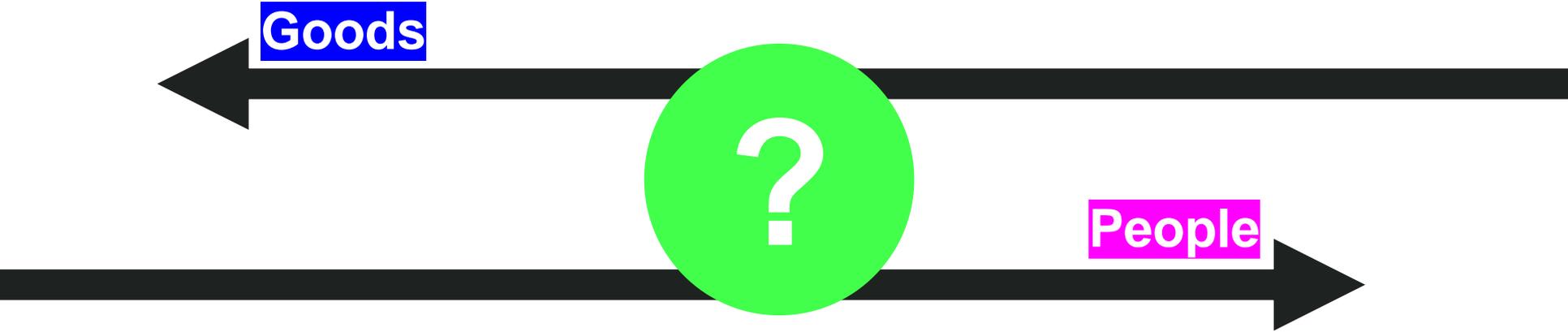
Programme

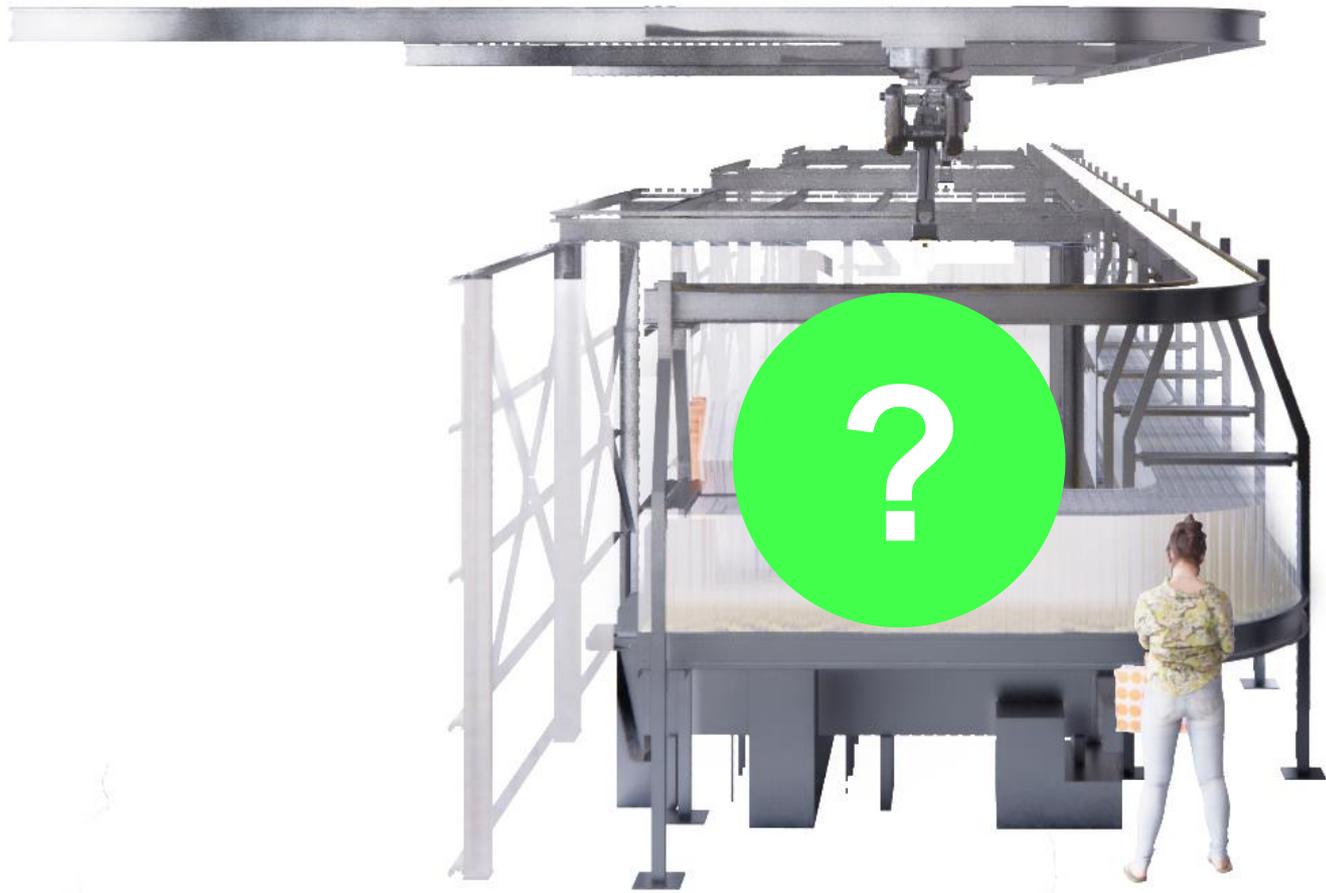


The diagram consists of two thick black horizontal arrows. The top arrow points to the left and has a blue rectangular box with the word "Goods" in white text positioned near its tail. The bottom arrow points to the right and has a magenta rectangular box with the word "People" in white text positioned near its tail.

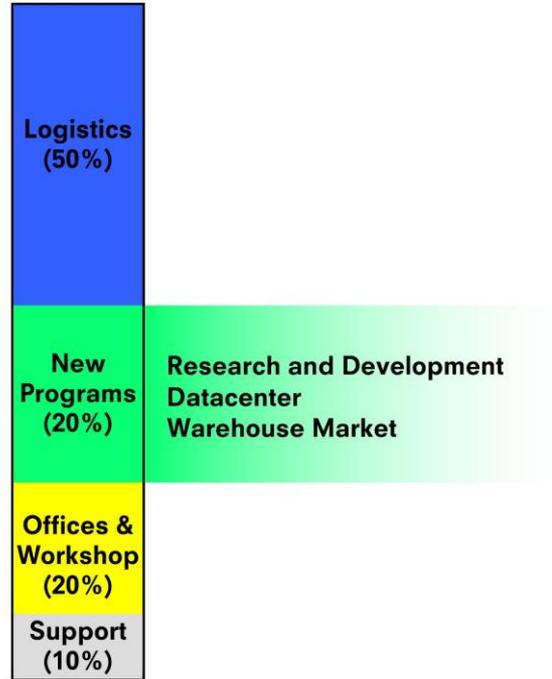
Goods

People



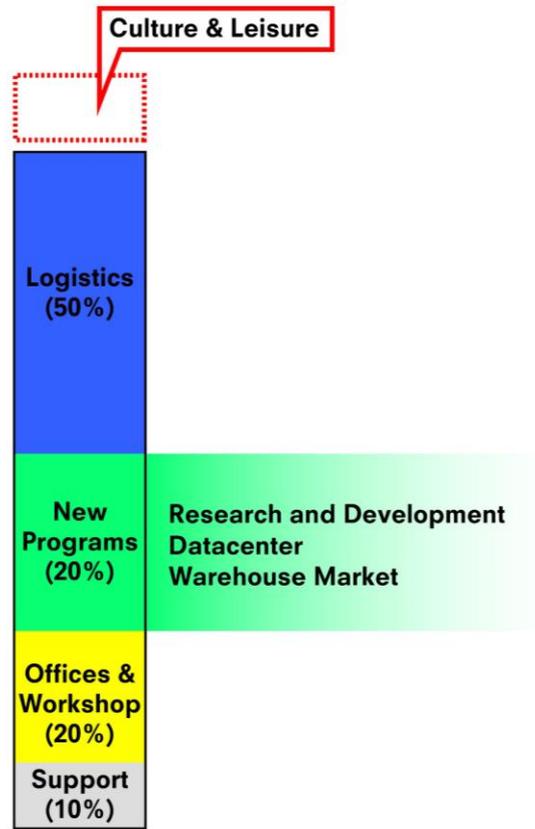


Programme



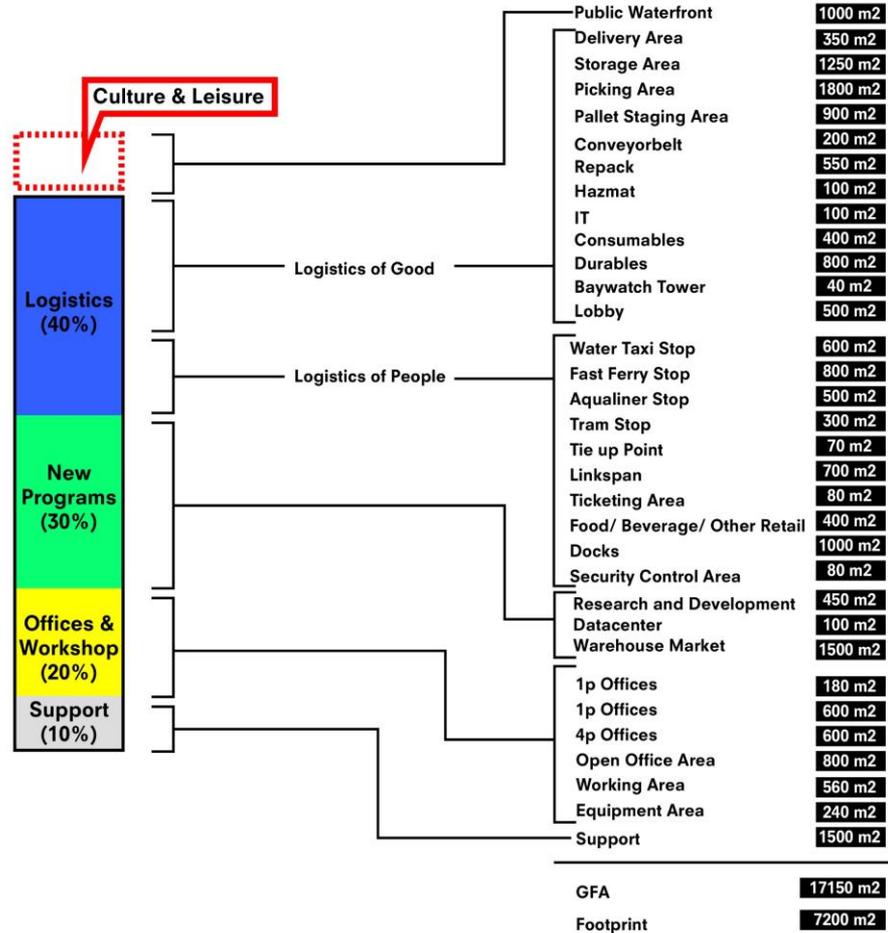
**Logistics +
Workspaces +
New Program**

Programme



**Logistics +
Workspaces +
New Program**

Programme



Transformation of Work

Conventional

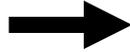
Product movement is performed by people and mobile equipment.



Transformation of Work

Conventional

Product movement is performed by people and mobile equipment.



Mechanized

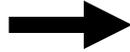
Product movement is assisted by mechanized conveyance and sortation systems.



Transformation of Work

Conventional

Product movement is performed by people and mobile equipment.



Mechanized

Product movement is assisted by mechanized conveyance and sortation systems.



Automated

Product movement is performed in partly or fully automated by equipment.







Project Ambition

Public Mobility

Increasing public water transportation

Boost site accessibility

Integrate and unify with other modes of transportation

City Logistics

Improve inland water network
In Netherlands and Europe

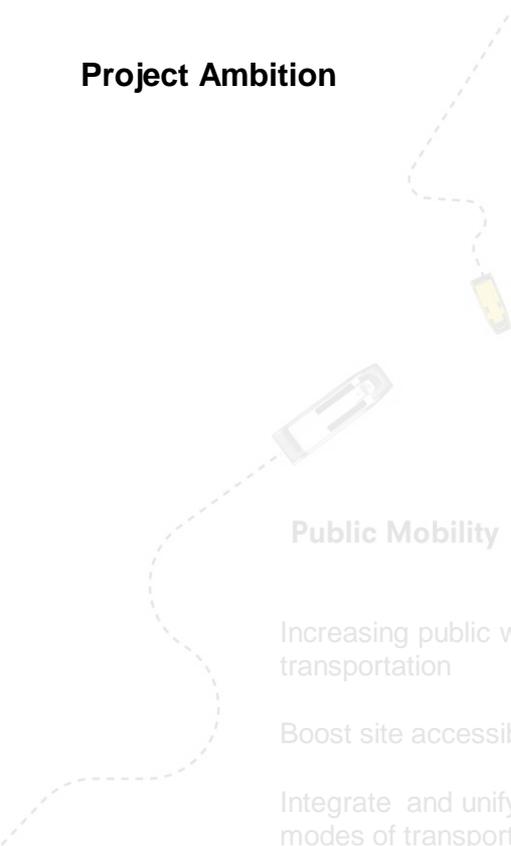
Decrease the emission of
logistic flows

Economy

Create high skilled job
opportunities

Contribute to economy of
neighbourhood by directly
And by raising the regional and
international visitors

Project Ambition

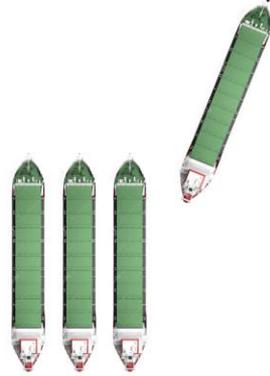


Public Mobility

Increasing public water transportation

Boost site accessibility

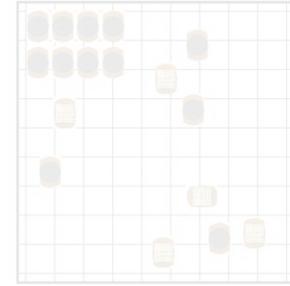
Integrate and unify with other modes of transportation



City Logistics

Improve inland water network In Netherlands and Europe

Decrease the emission of logistic flows



Economy

Create high skilled job opportunities

Contribute to economy of neighbourhood by directly And by raising the regional and international visitors

Project Ambition



Public Mobility

Increasing public water transportation

Boost site accessibility

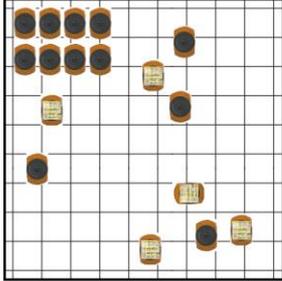
Integrate and unify with other modes of transportation



City Logistics

Improve inland water network In Netherlands and Europe

Decrease the emission of logistic flows



Economy

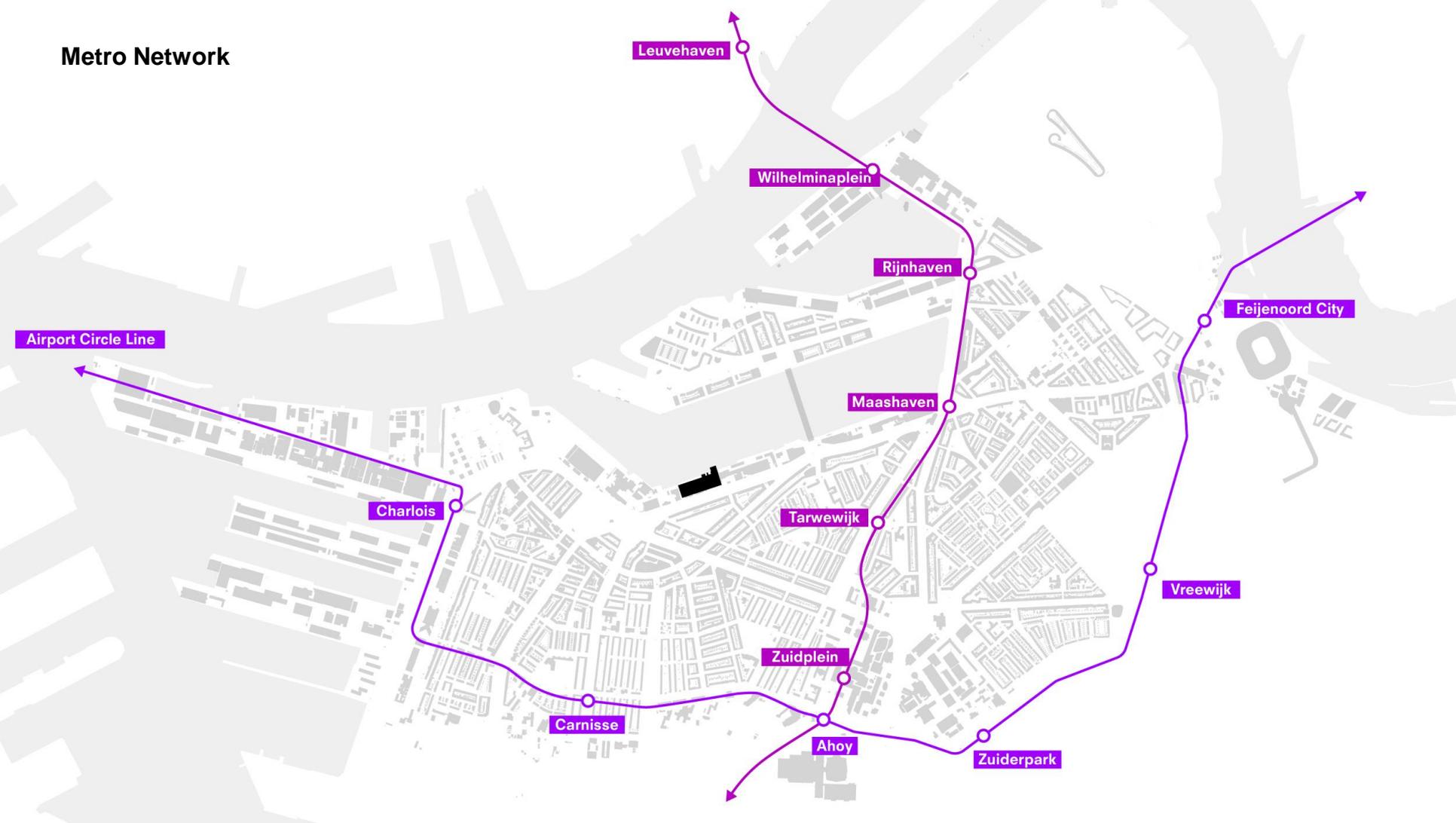
Create high skilled job opportunities

Contribute to economy of neighbourhood by directly
And by raising the regional and international visitors

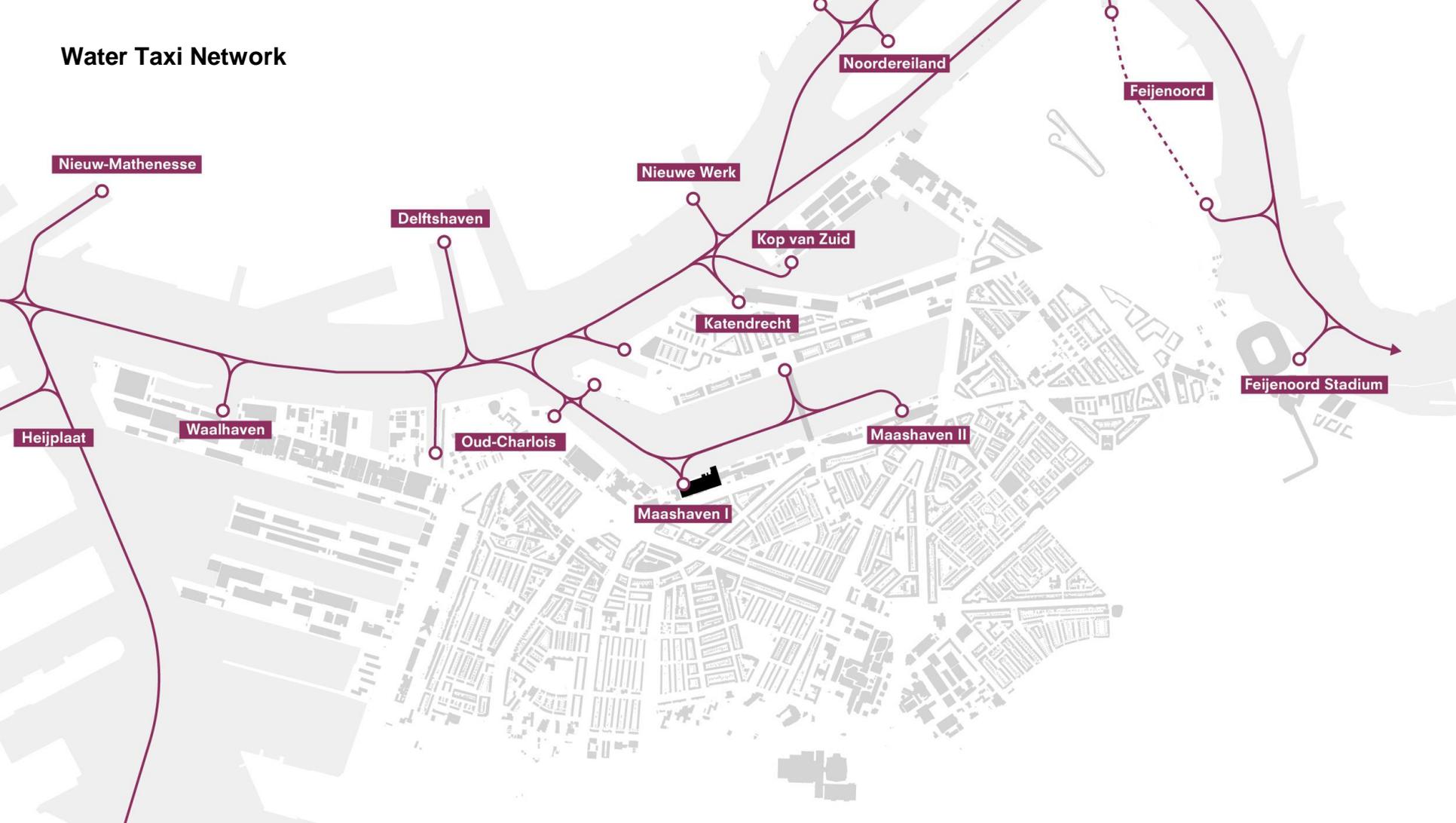
Site



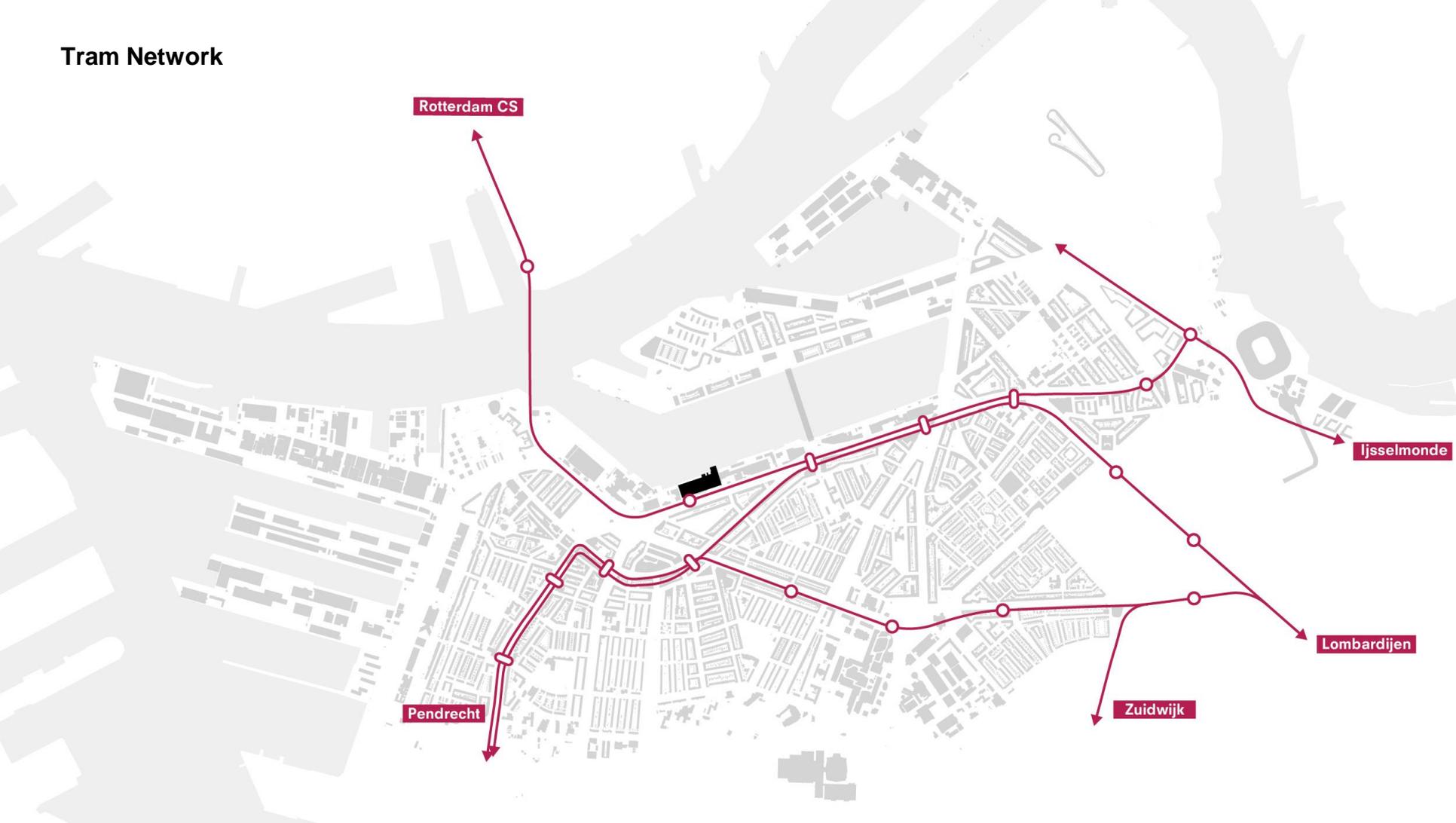
Metro Network



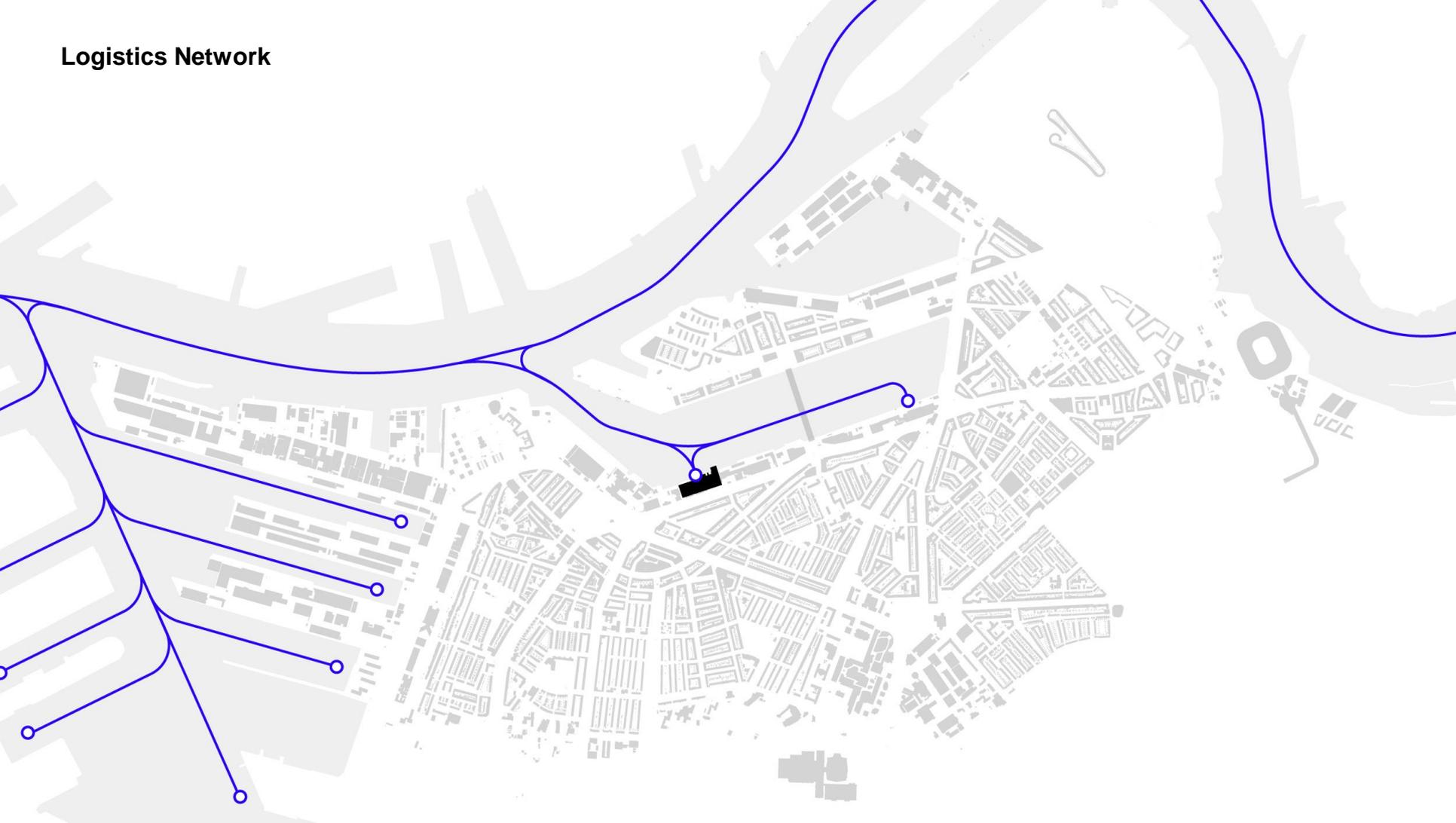
Water Taxi Network



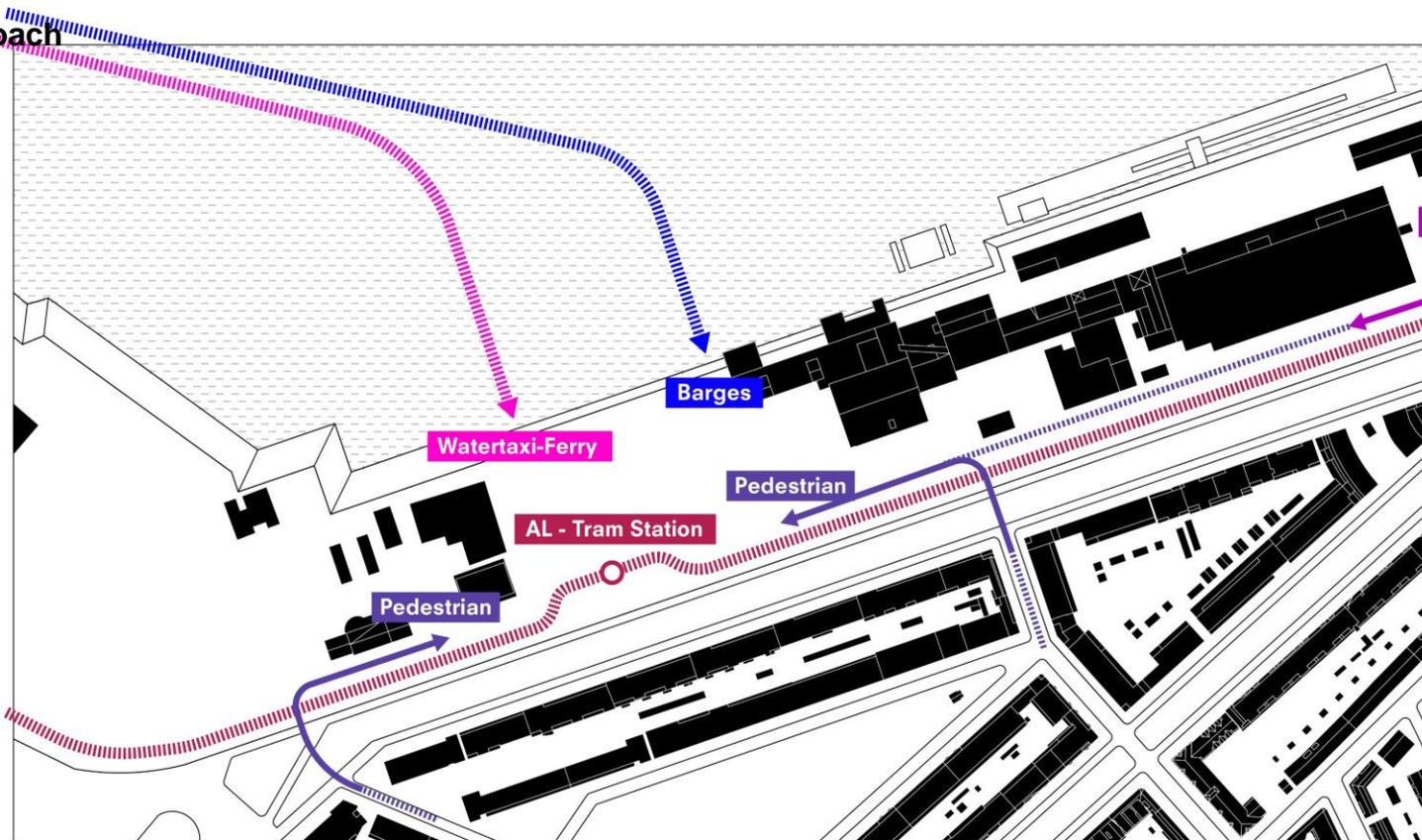
Tram Network



Logistics Network



Approach



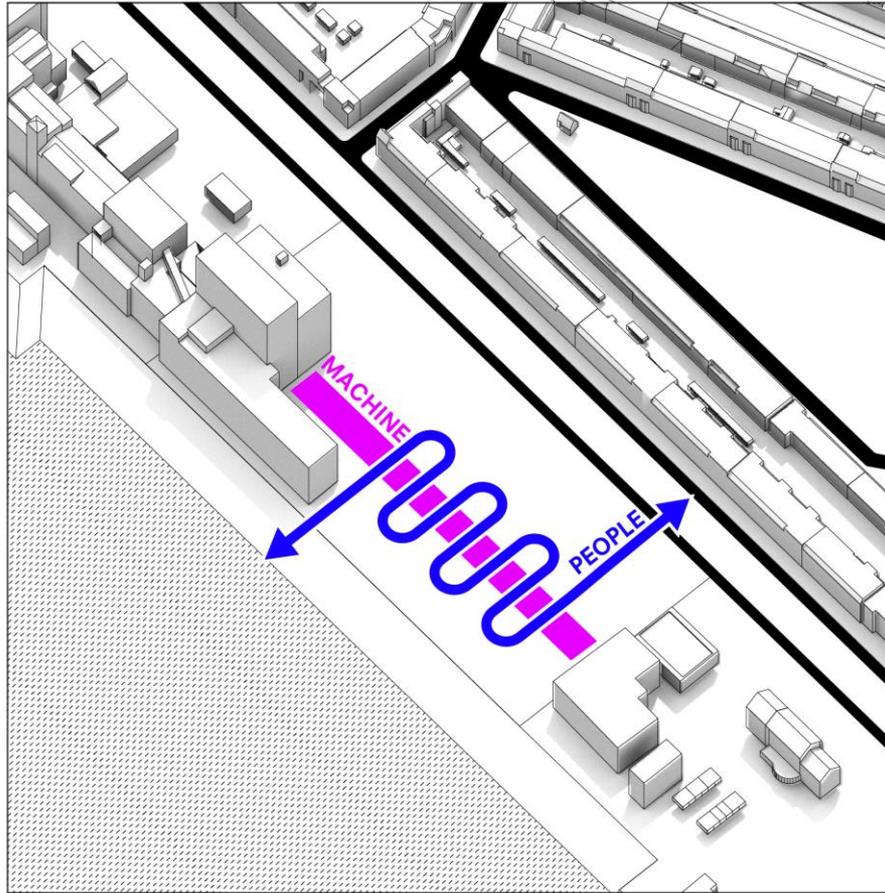
Location – Meneba Factory



Location – Meneba Factory



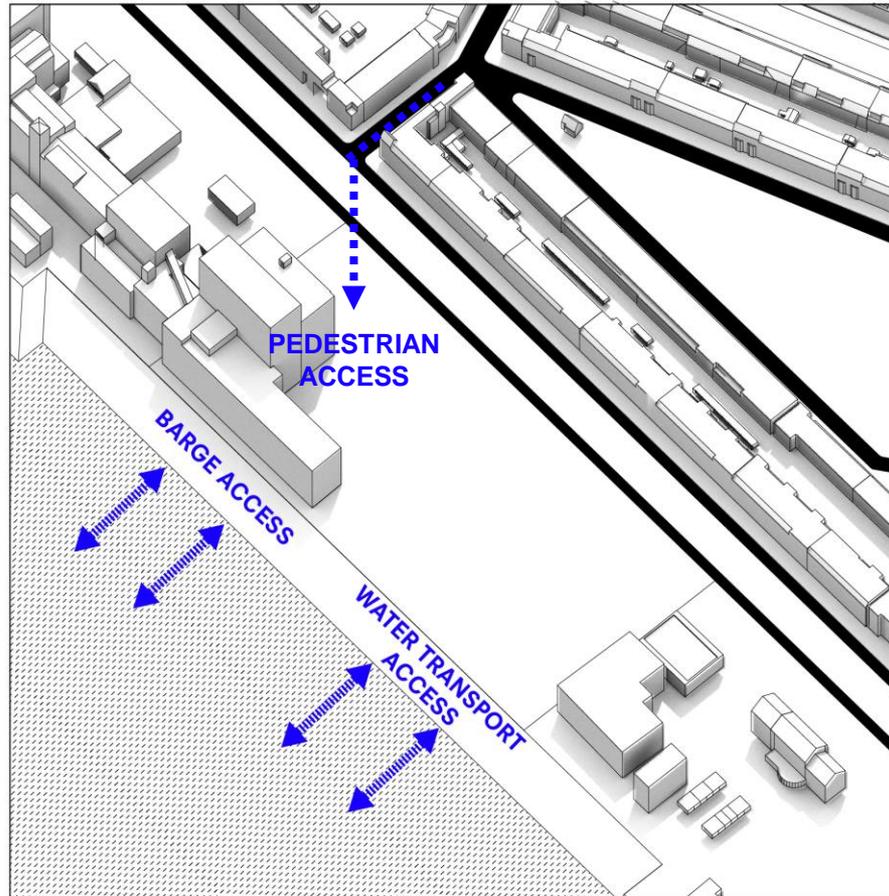
Design Ambitions



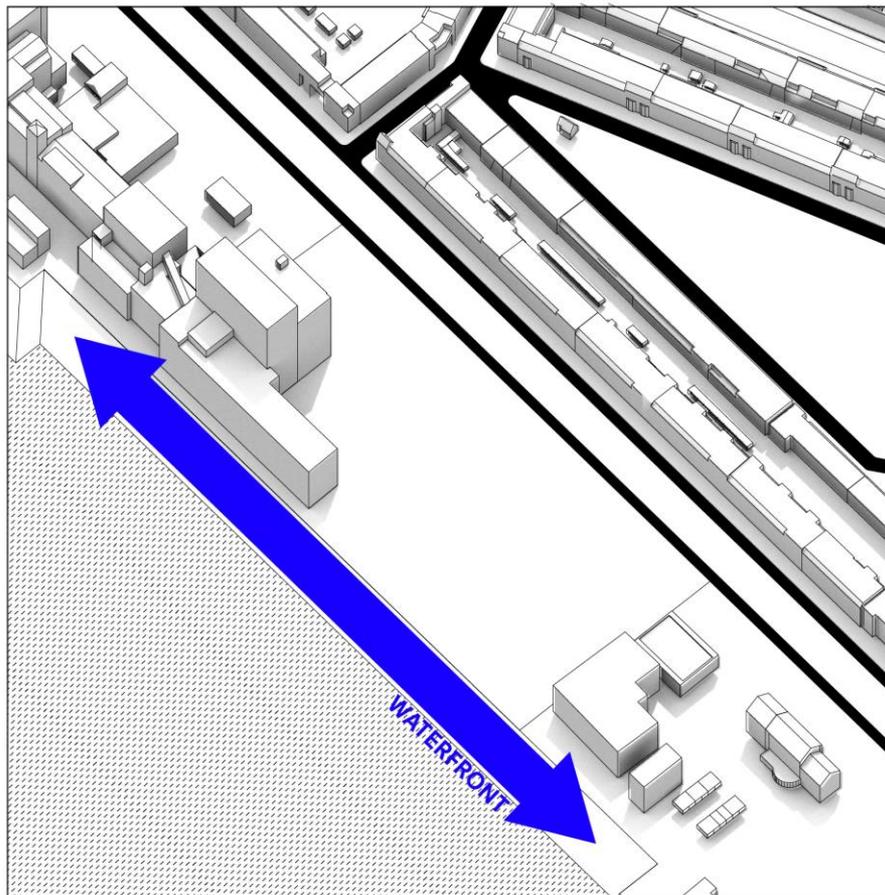
Human-Machine Interaction

- Linking people to machine space
- Integrating white collar and blue collar workers

Design Ambitions

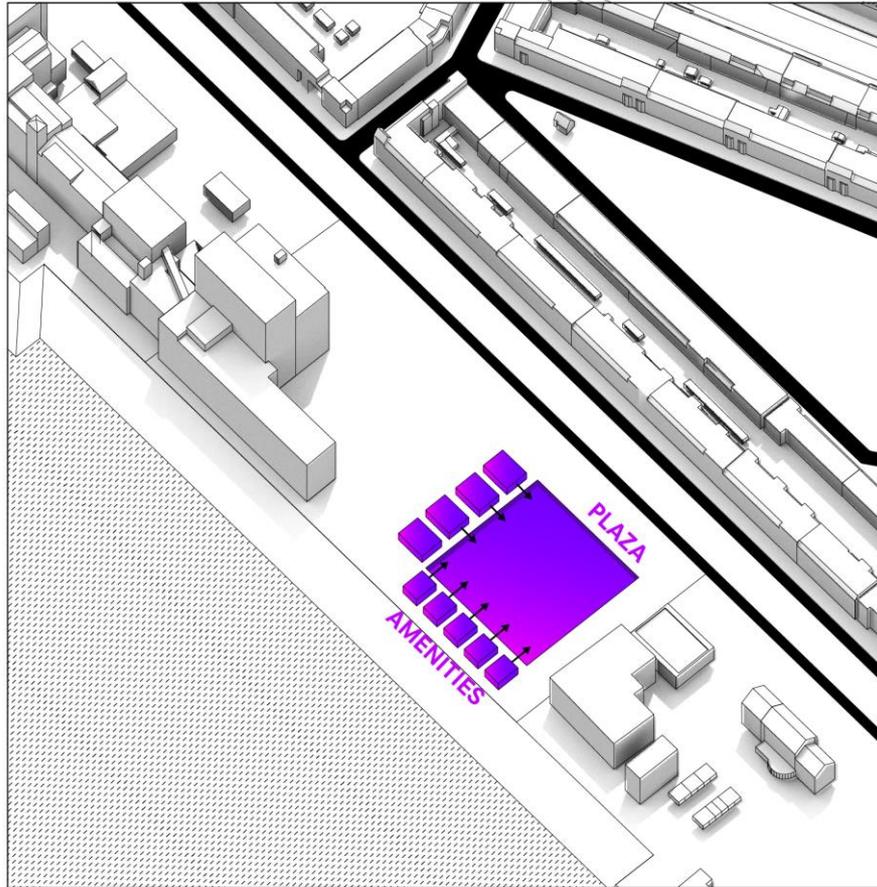


Design Ambitions



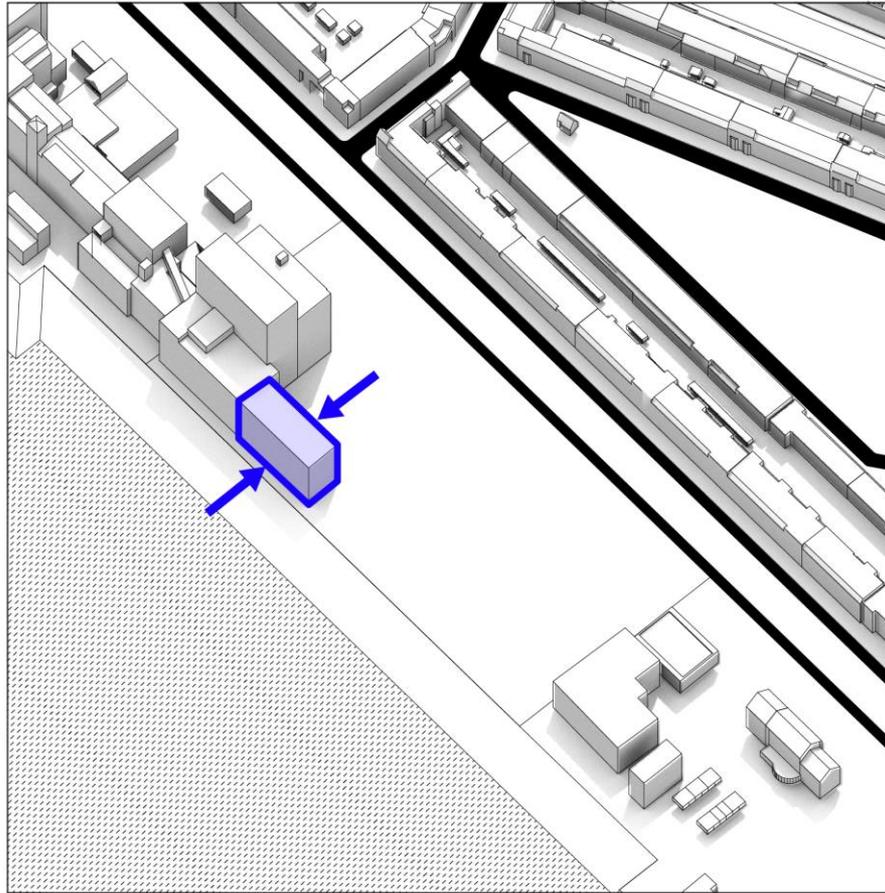
Public Waterfront

Design Ambitions



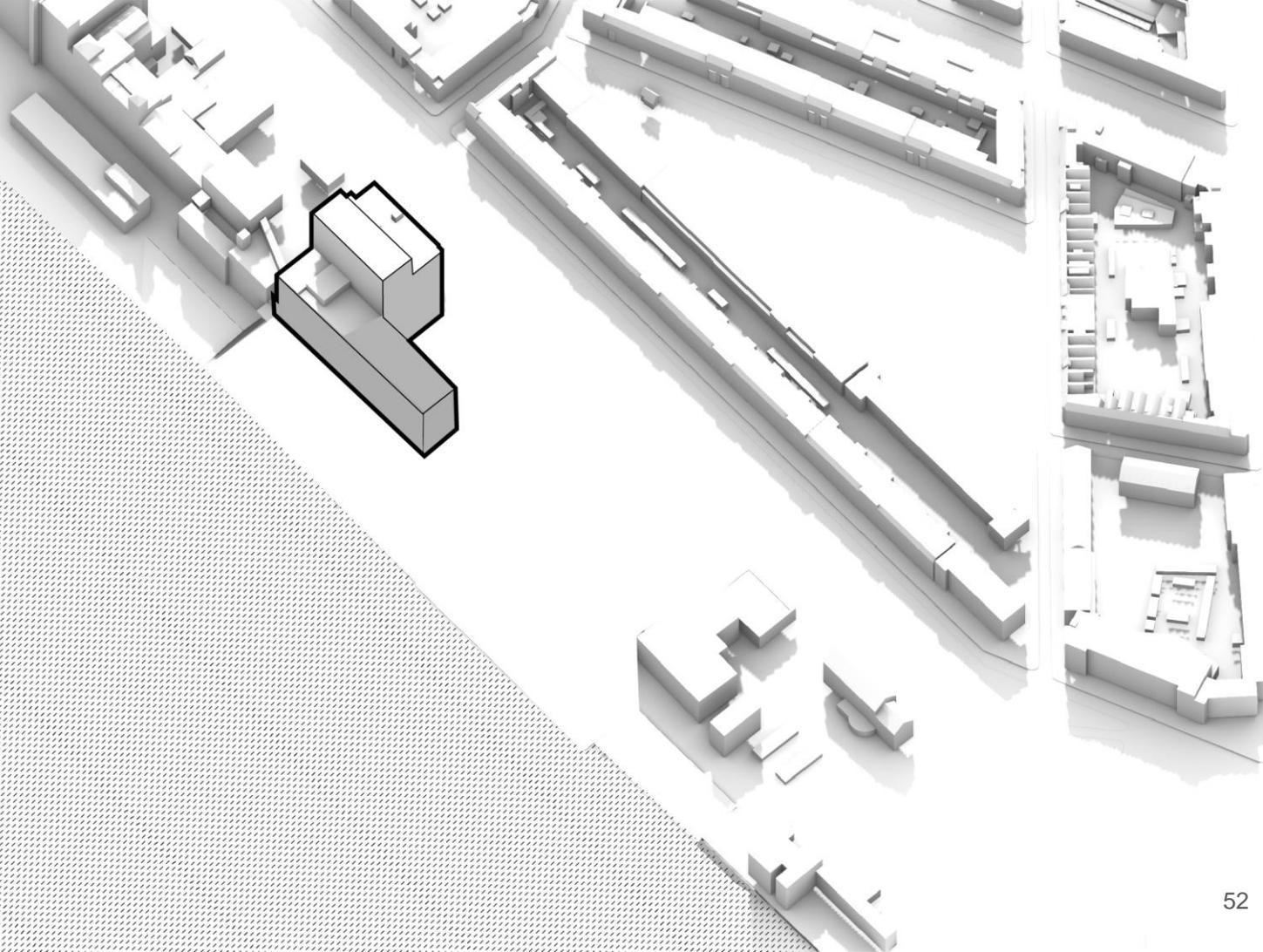
**Creating Public Plaza with
Amenities**

Design Ambitions

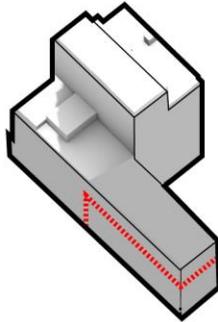


**Intervene existing building
Logistic function – Staging Area
& Workshop**

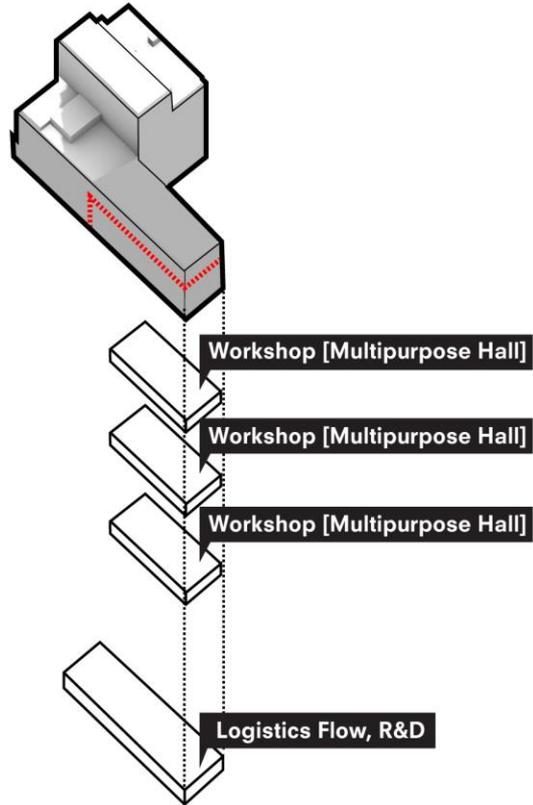
Meneba Factory



Meneba Factory



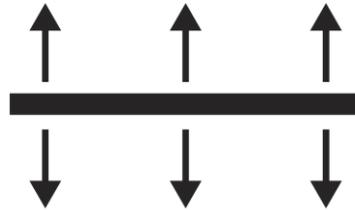
Meneba Factory



Organization



Organization

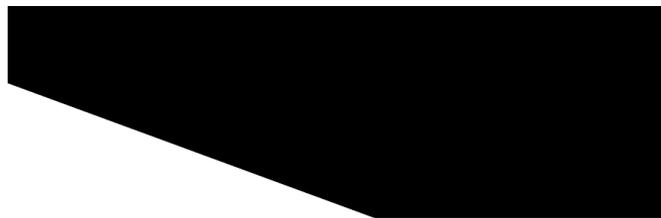


Organization

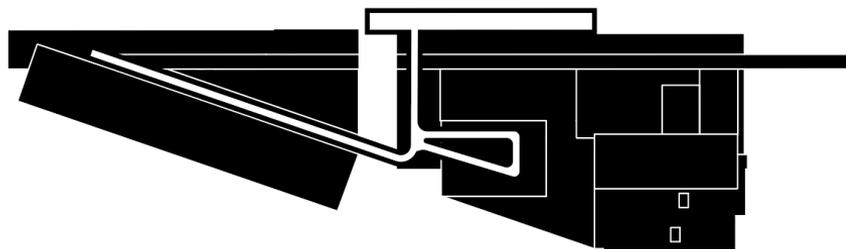


EXTRAVERTED

Volume

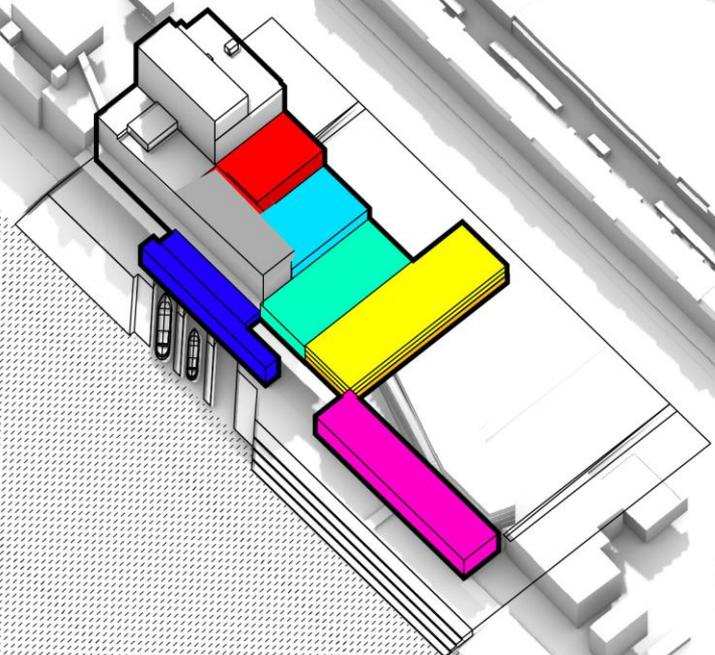


Volume

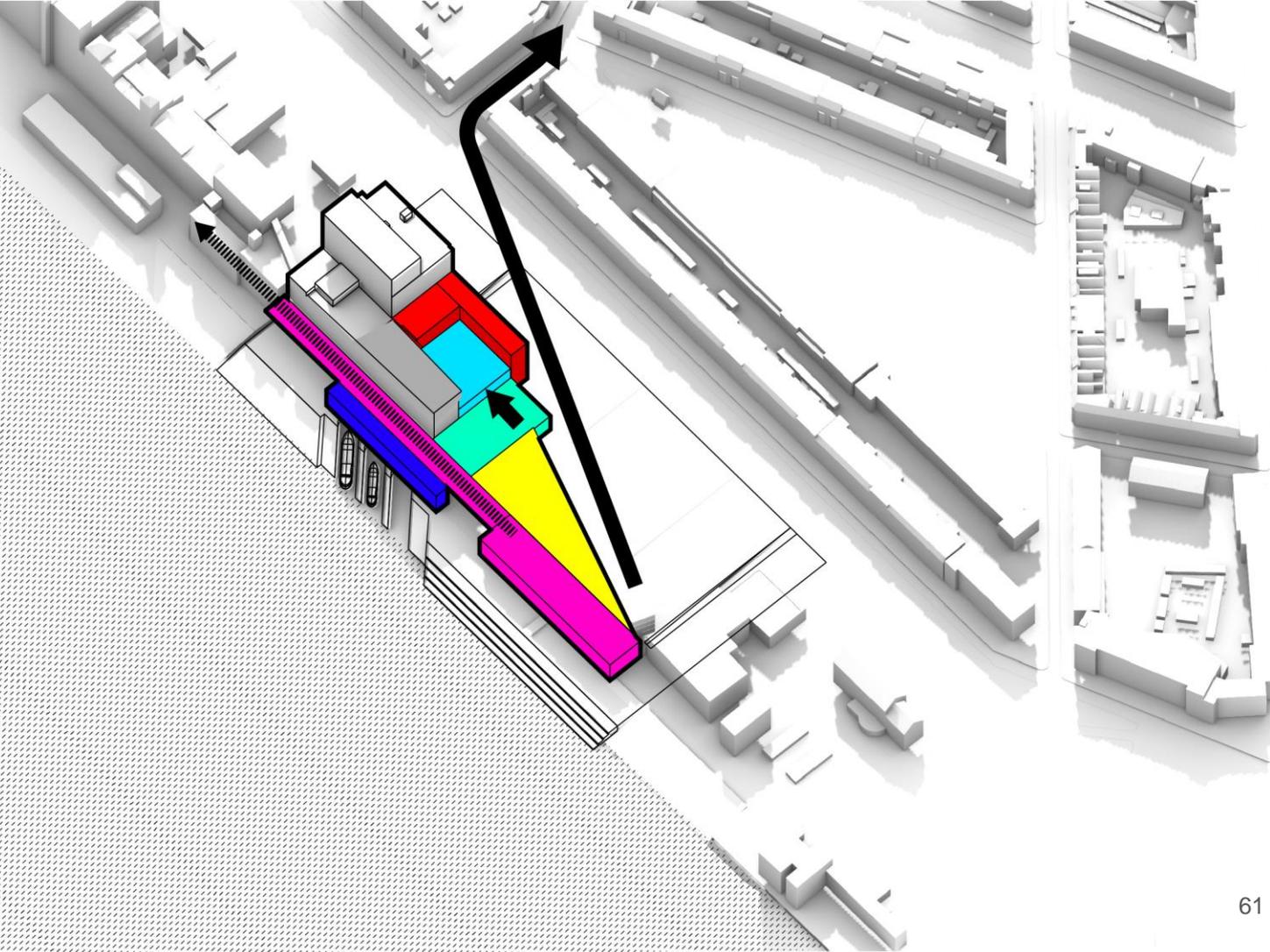


FRAGMENTED

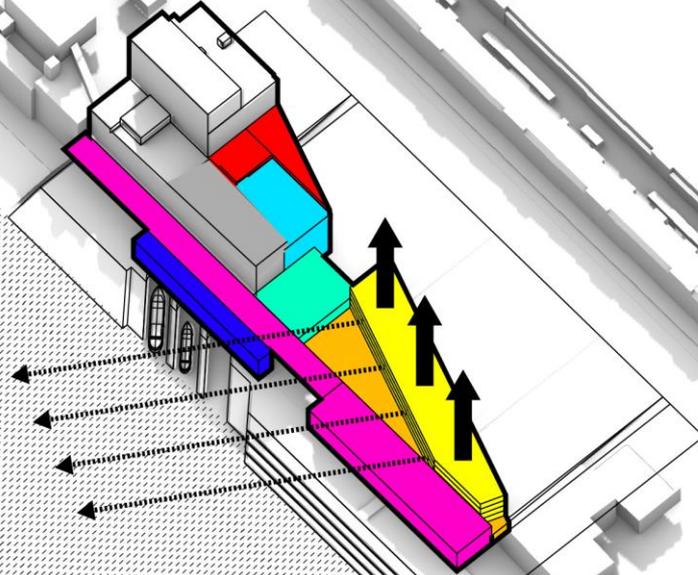
- Offices
- Research and Development
- Warehouse Market
- Loading Area
- Amenities
- Warehouse Storage
- Fulfillment



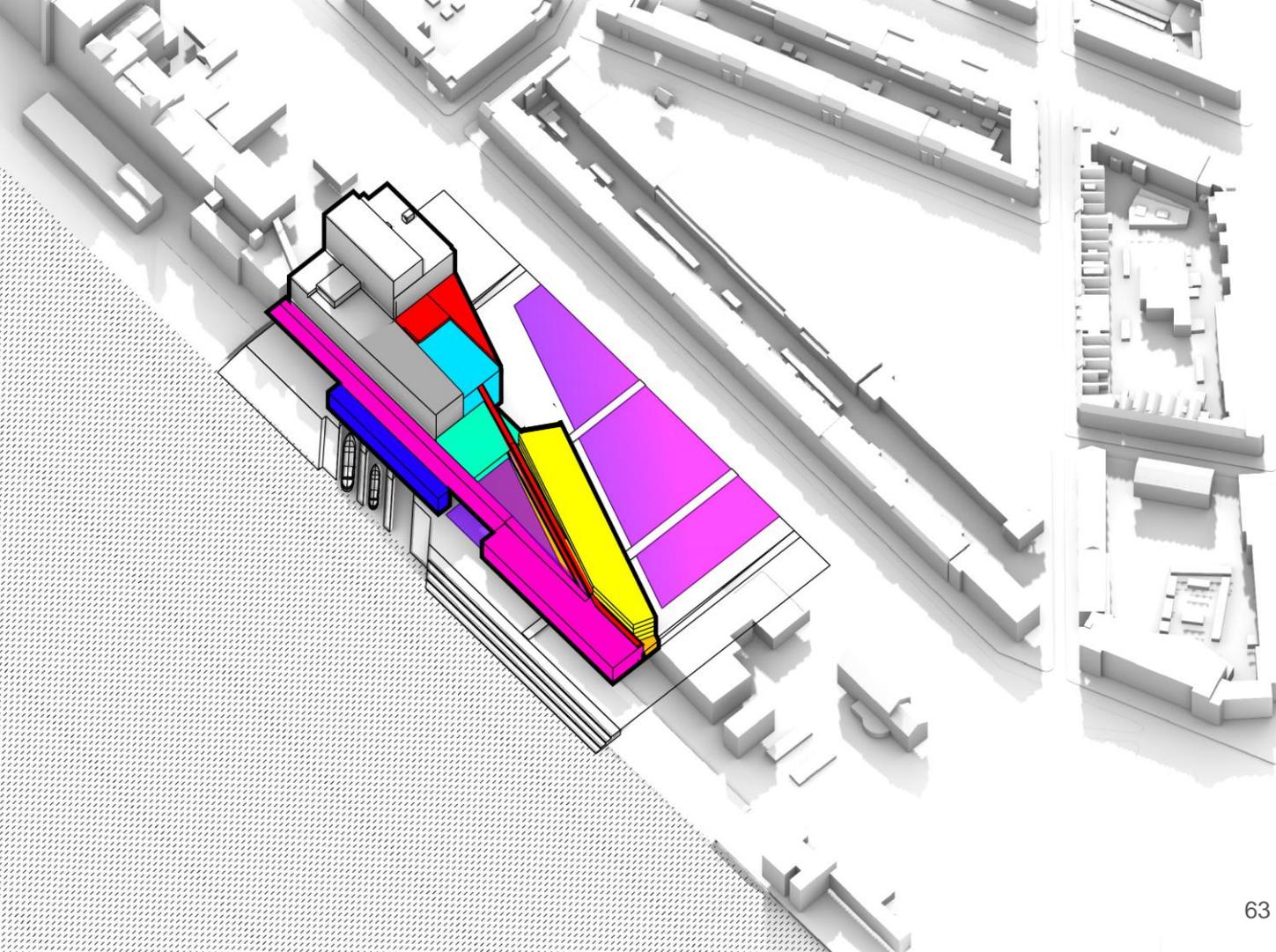
- Offices
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- Warehouse Storage
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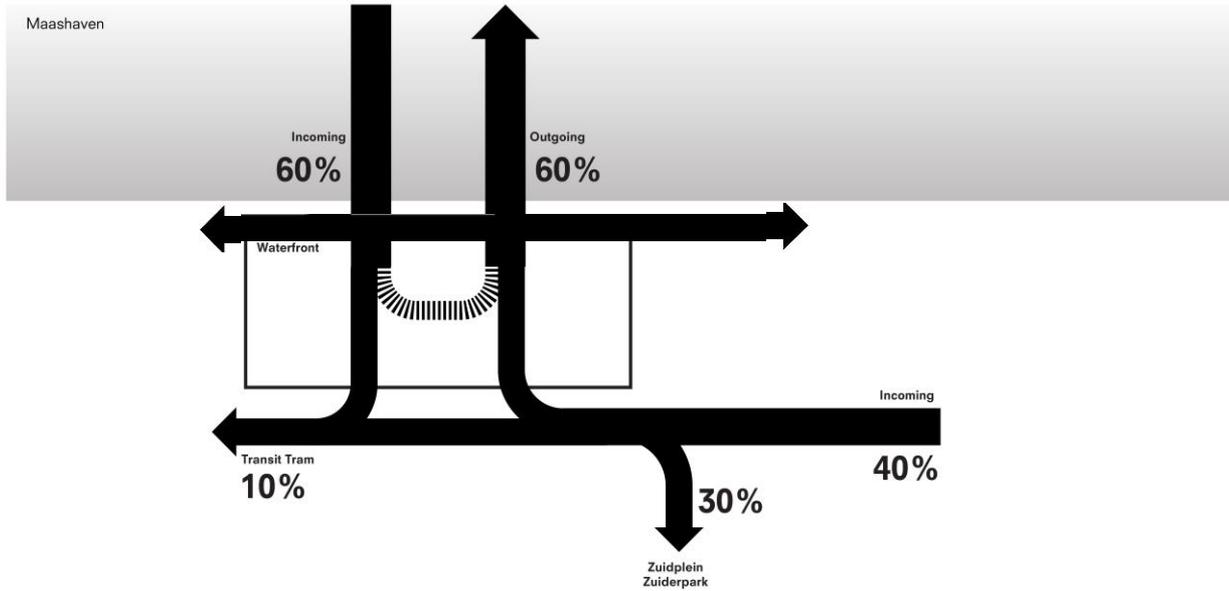
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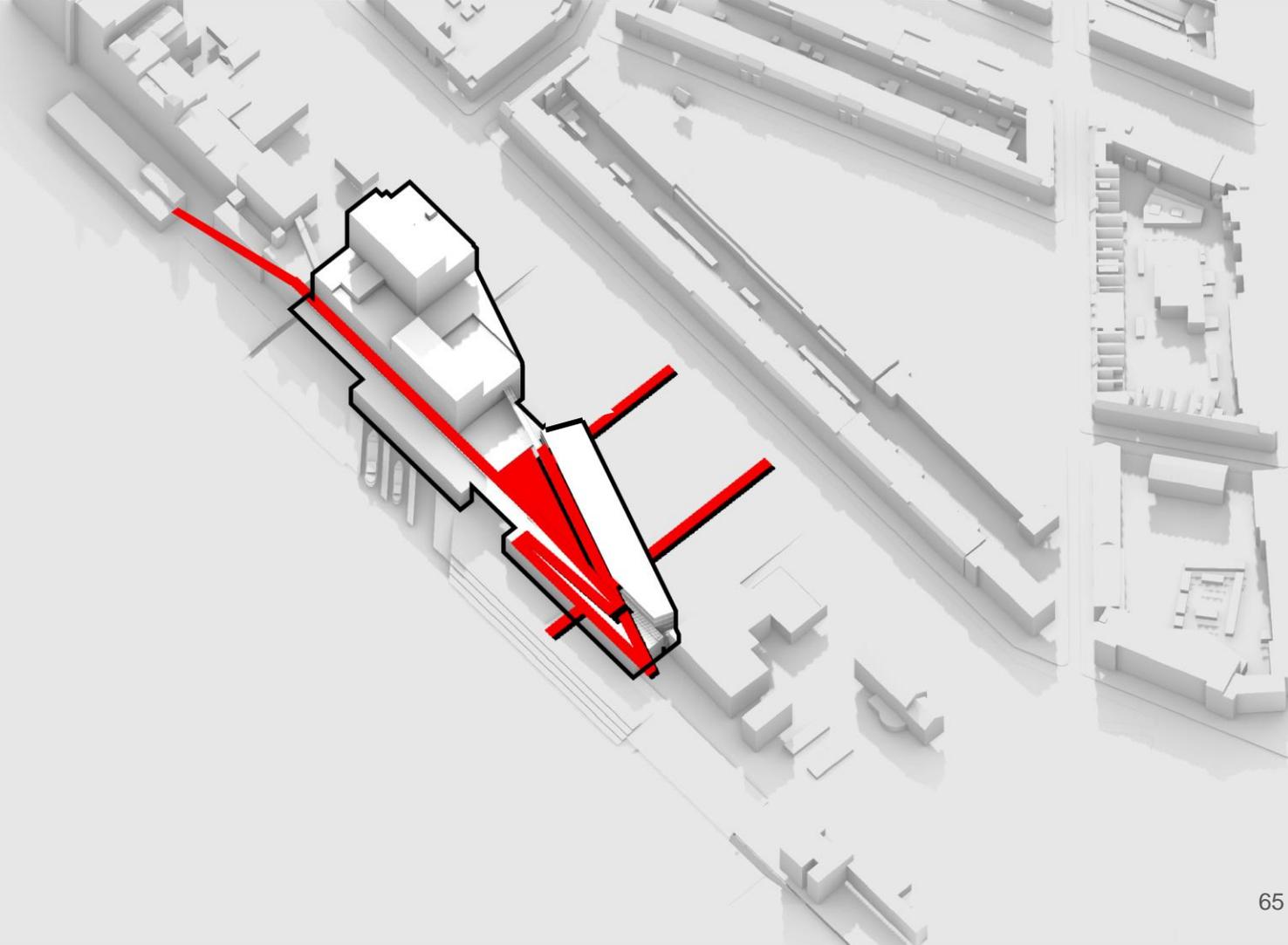
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- Warehouse Market
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- Warehouse Storage
- Fulfillment



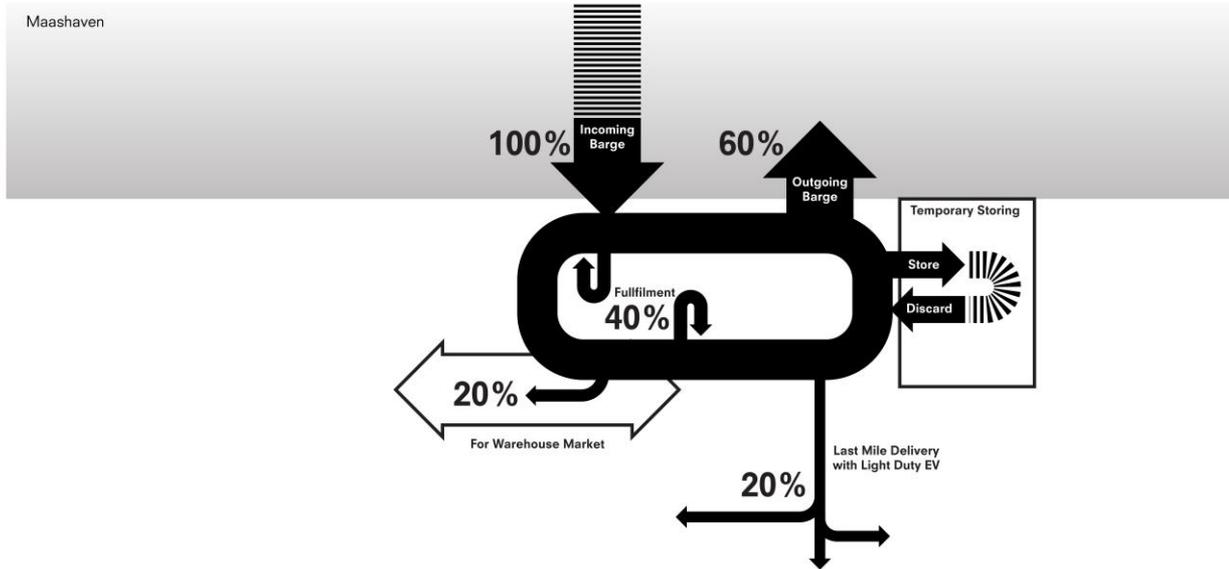
Passenger Flows



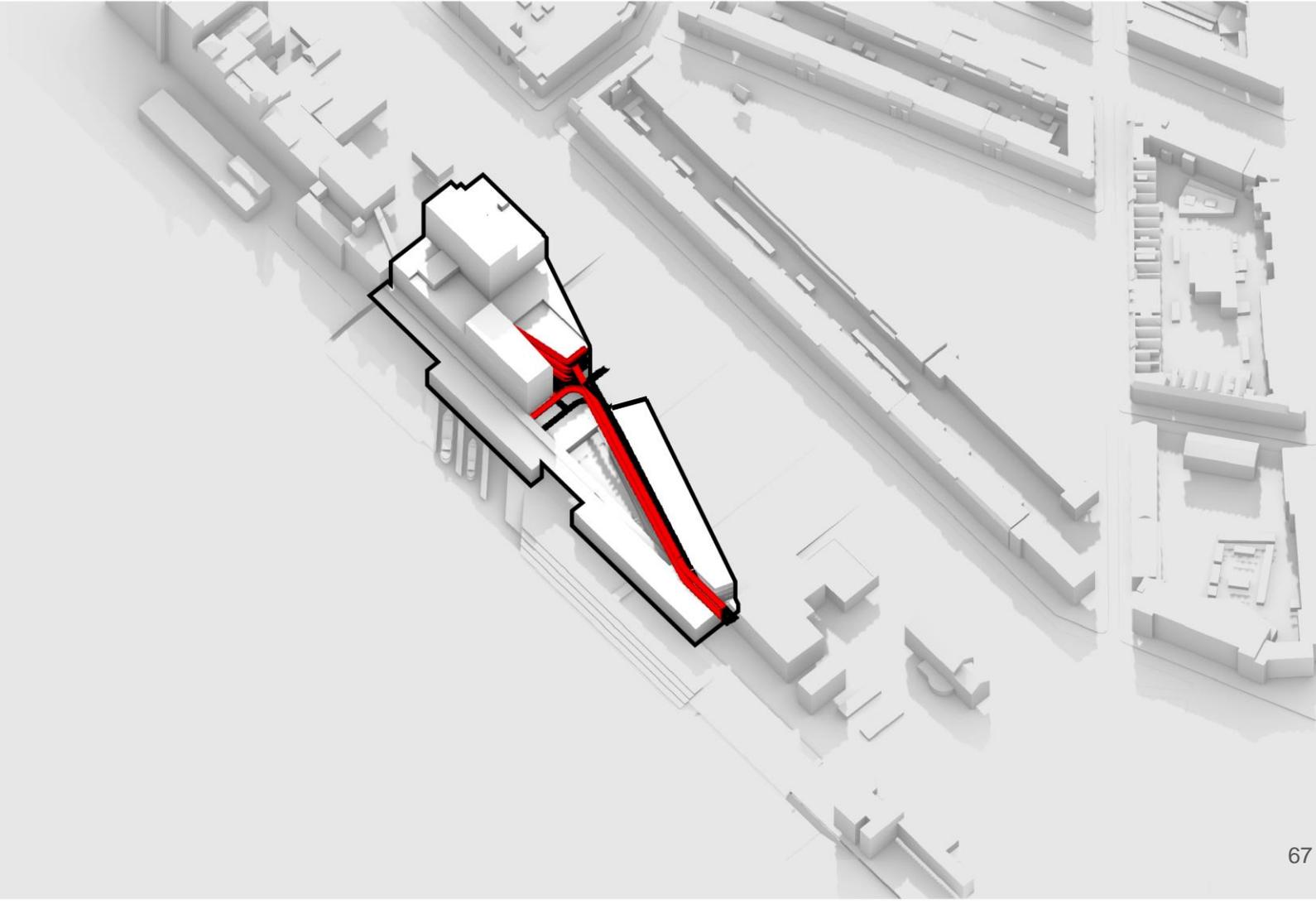
Passenger Flows



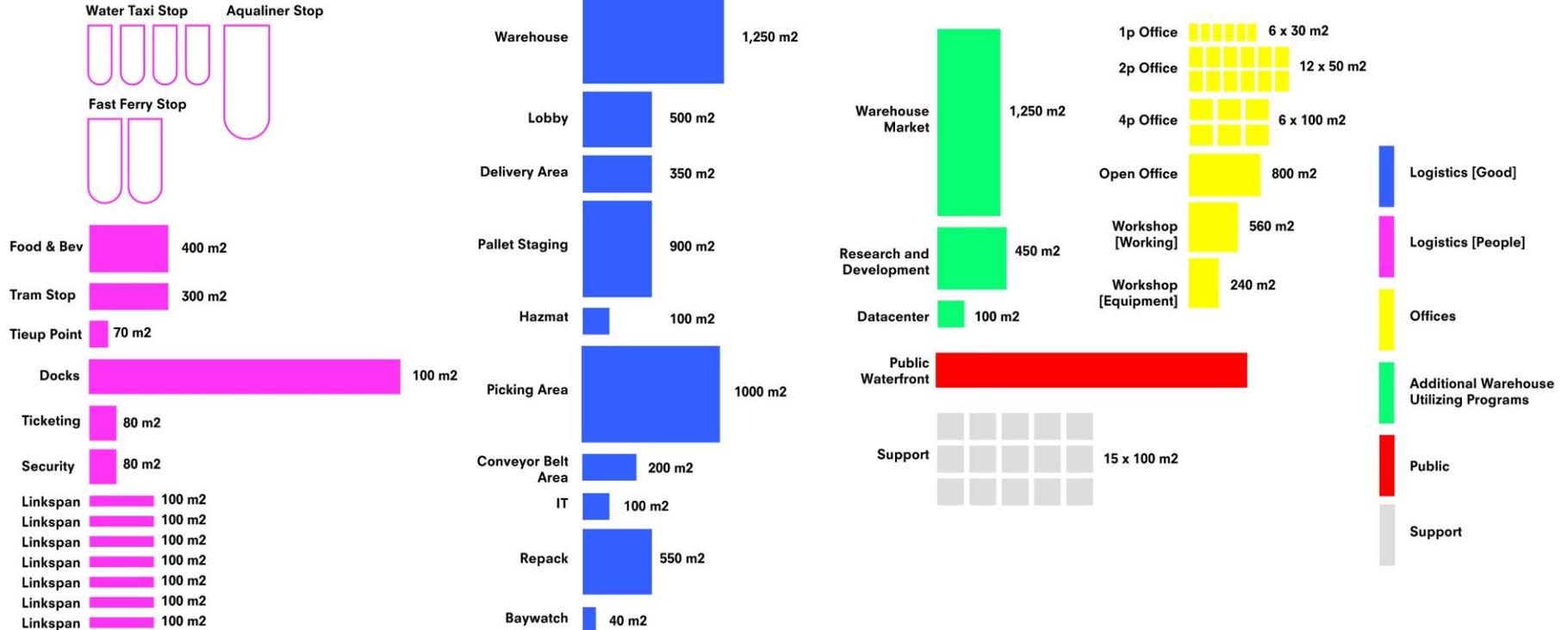
Goods Flow



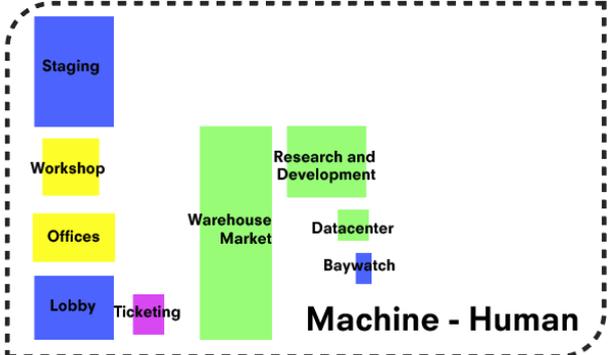
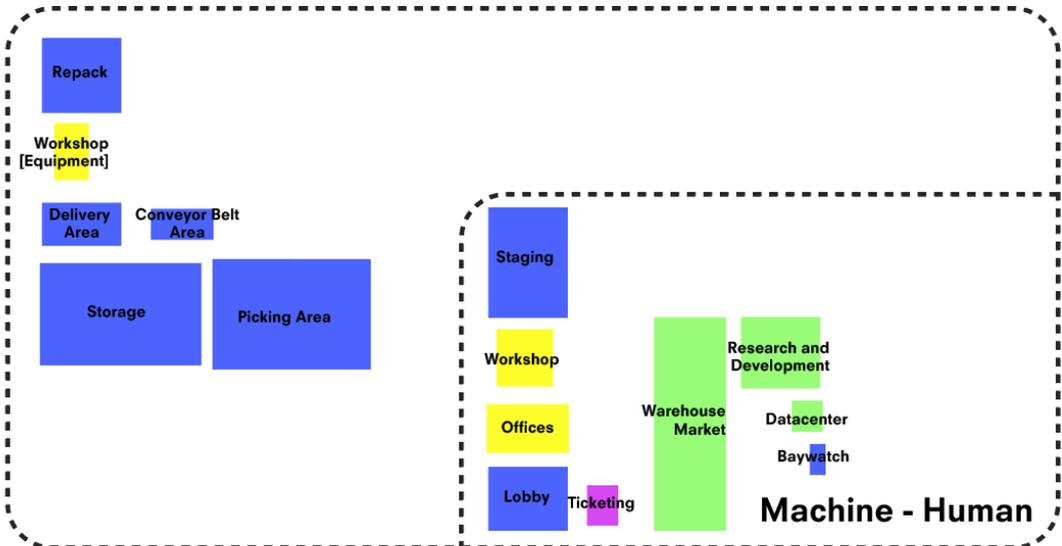
Goods Flow



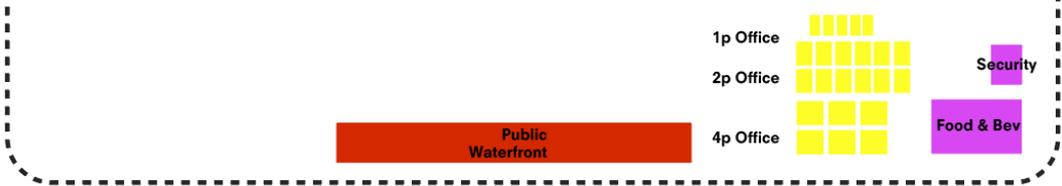
Programme Distribution



Machine - Machine



Machine - Human



Human - Human

Robotic Loop Interactions

Machine-Machine



Machine-Human

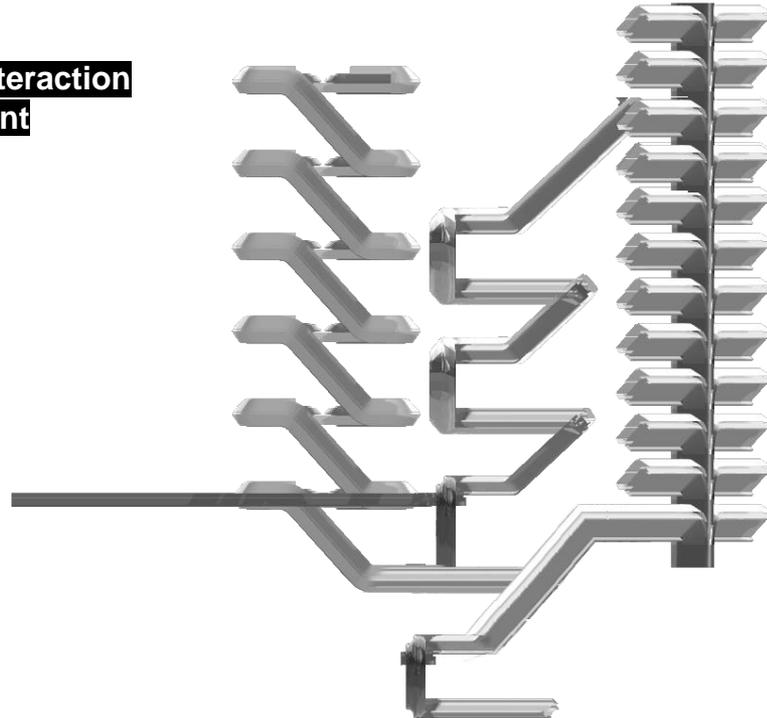


Human-Human



Robotic Loop Interactions

Machine-Machine Interaction
Automated Fullfilment



Robotic Loop Interactions

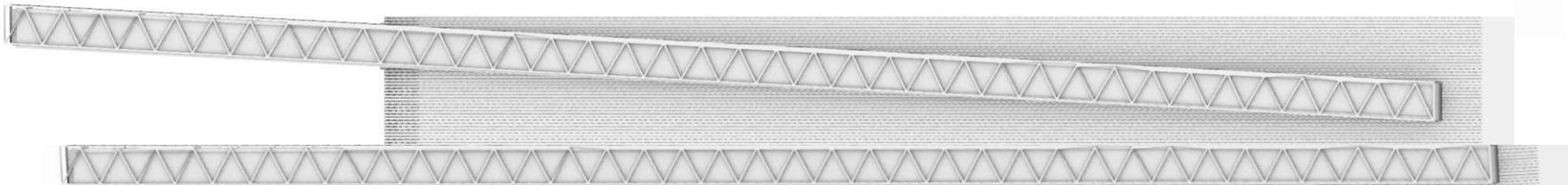
Machine-Human Interaction
Steady Shopping Experience

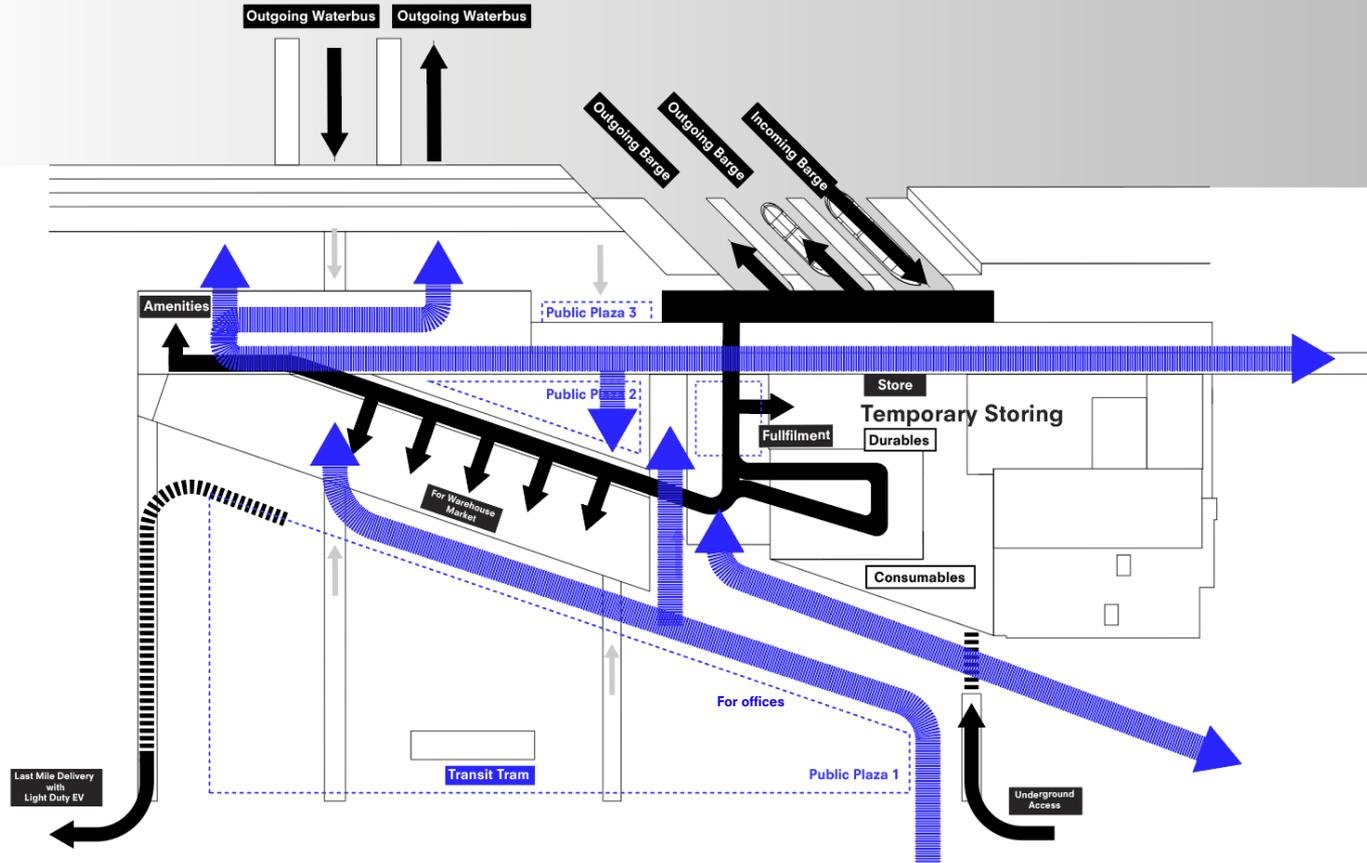


Robotic Loop Interactions

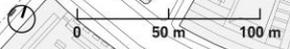
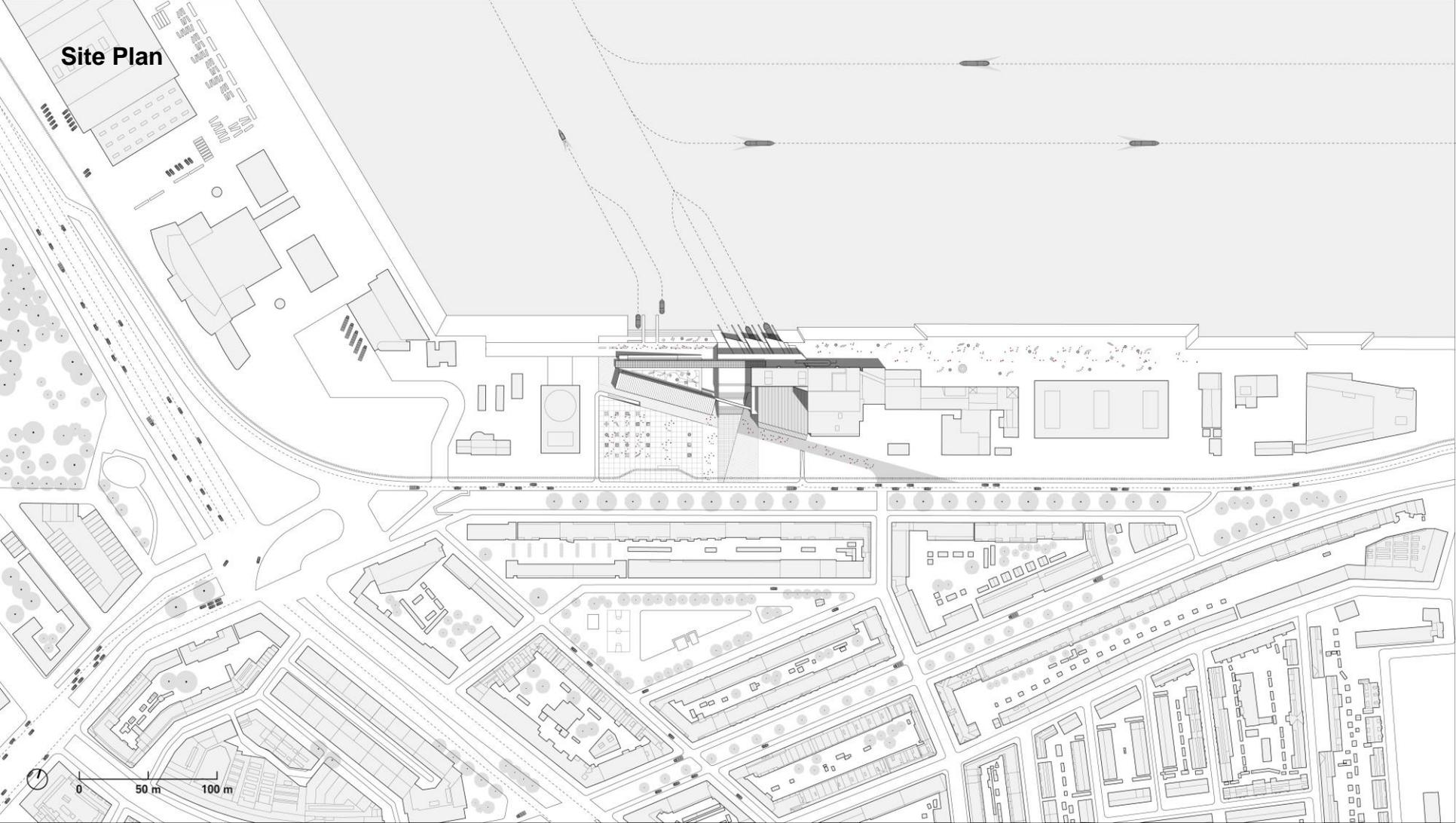
Human-Human Interaction

Visual Interaction

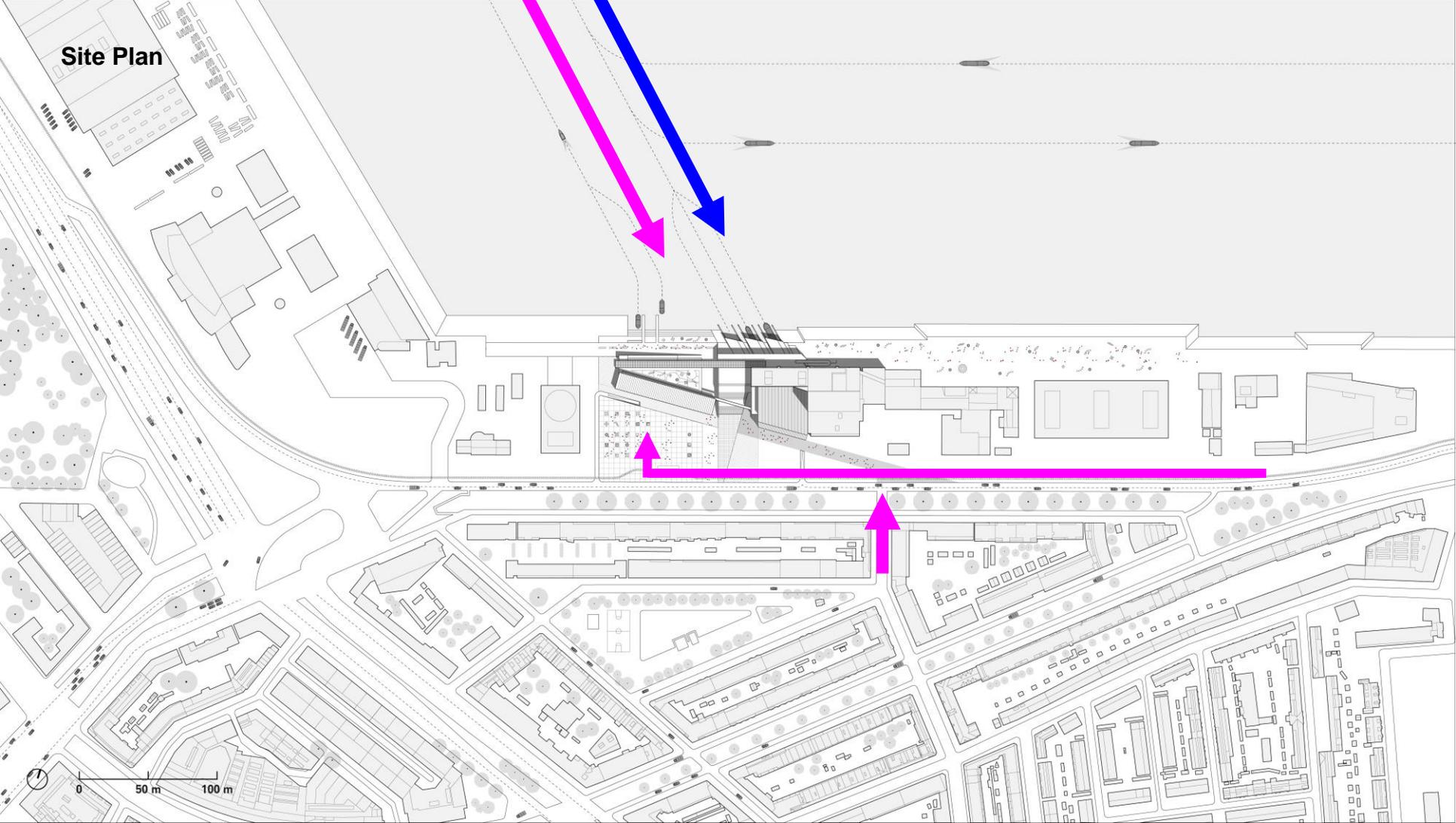




Site Plan



Site Plan

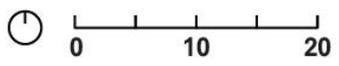
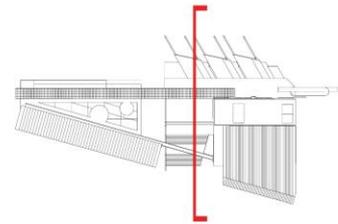
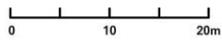
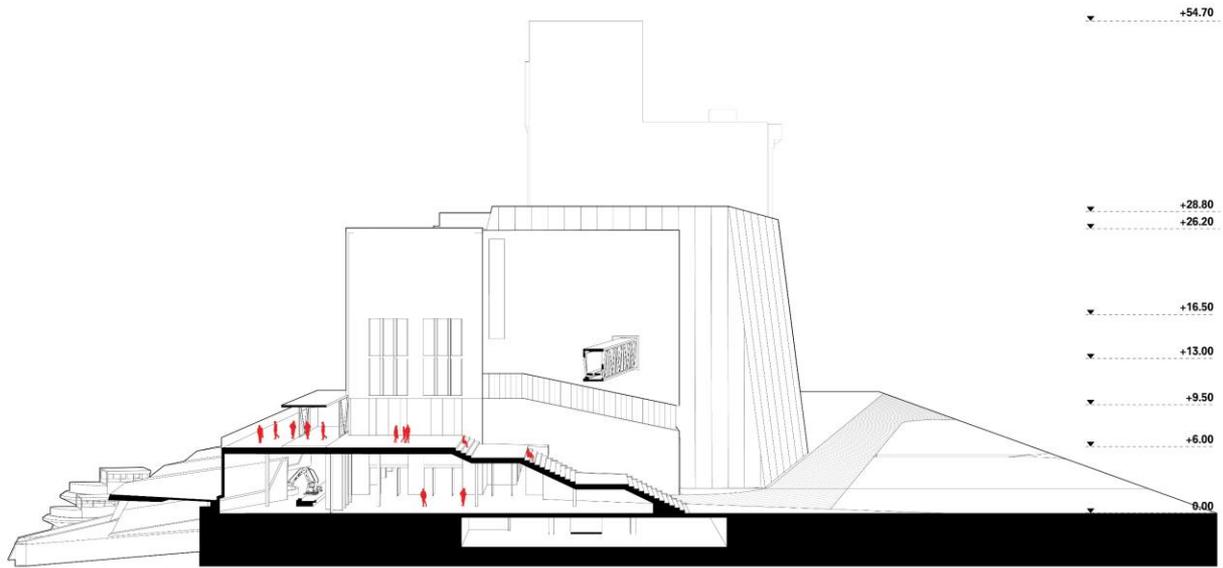


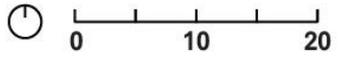
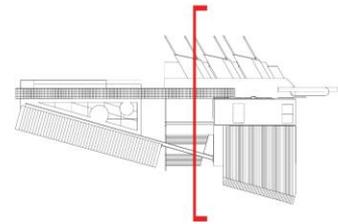
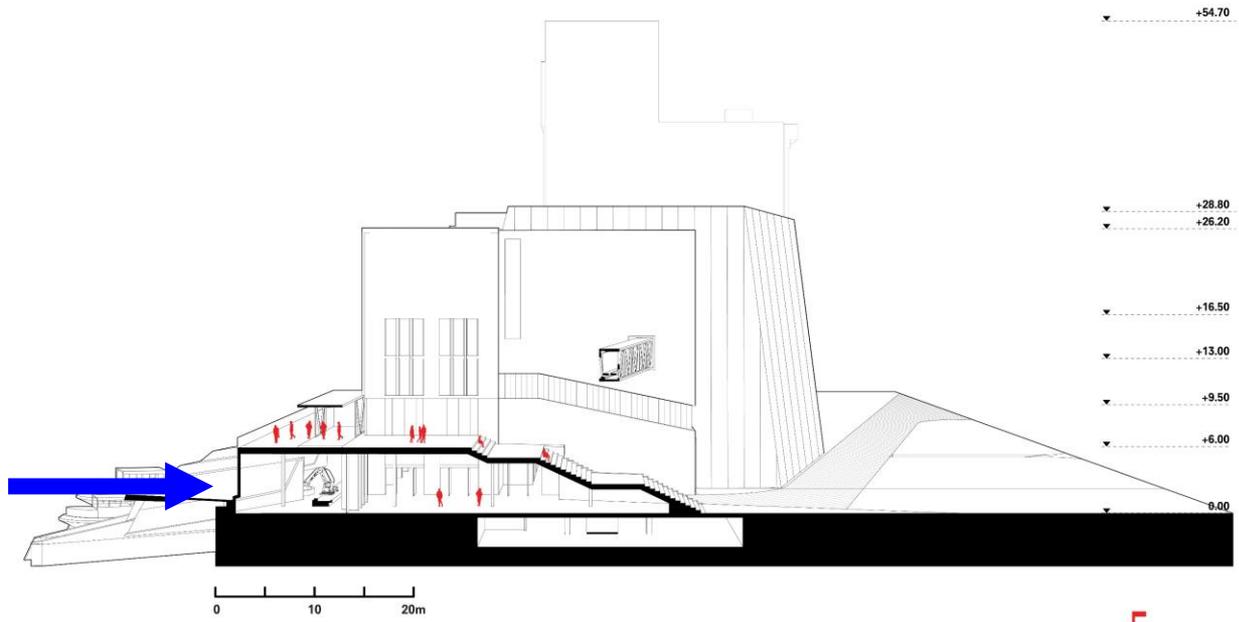
Approach from Water Transportation



Approach from Tram



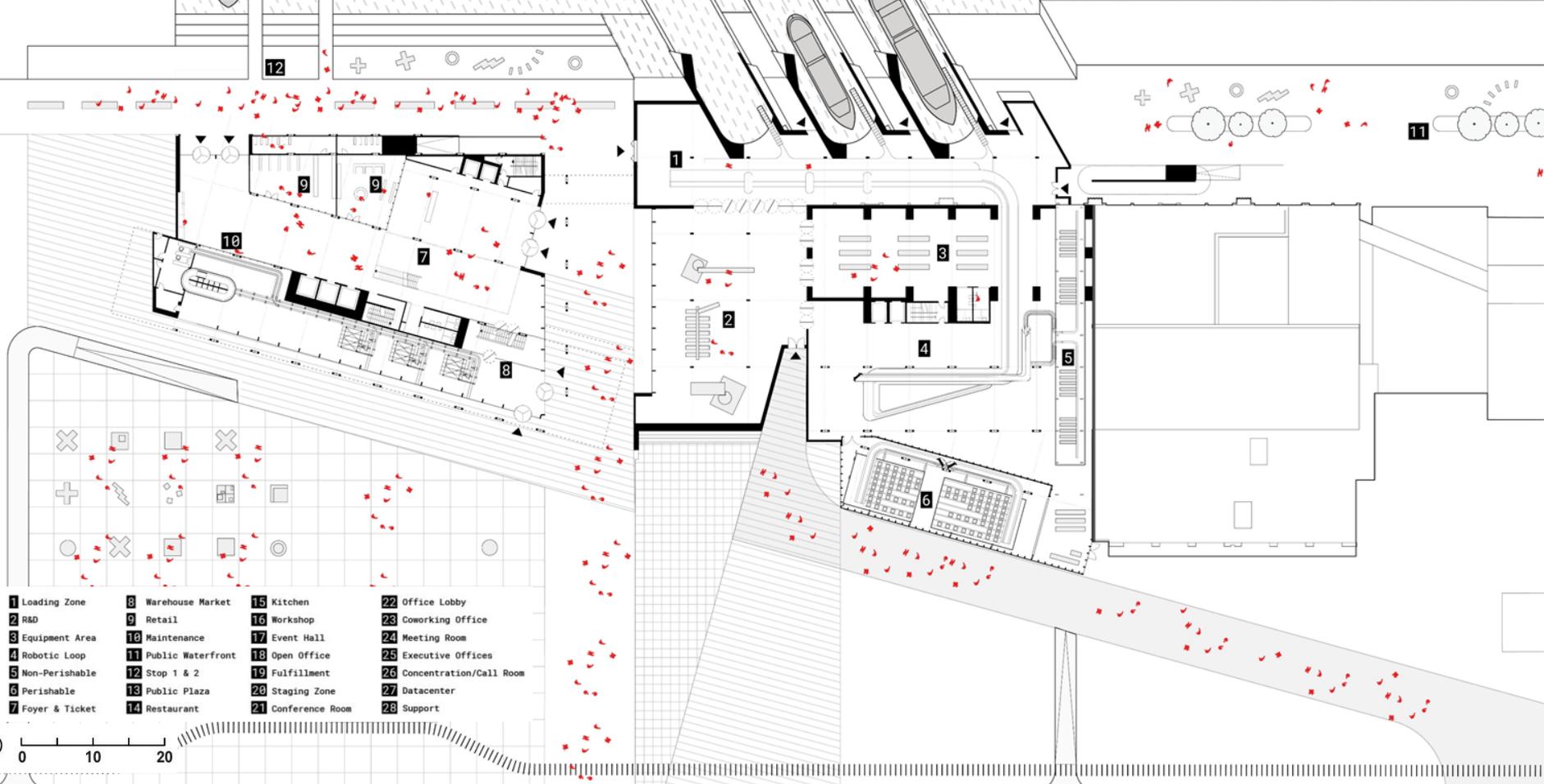




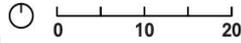
Workshop & Maintenance



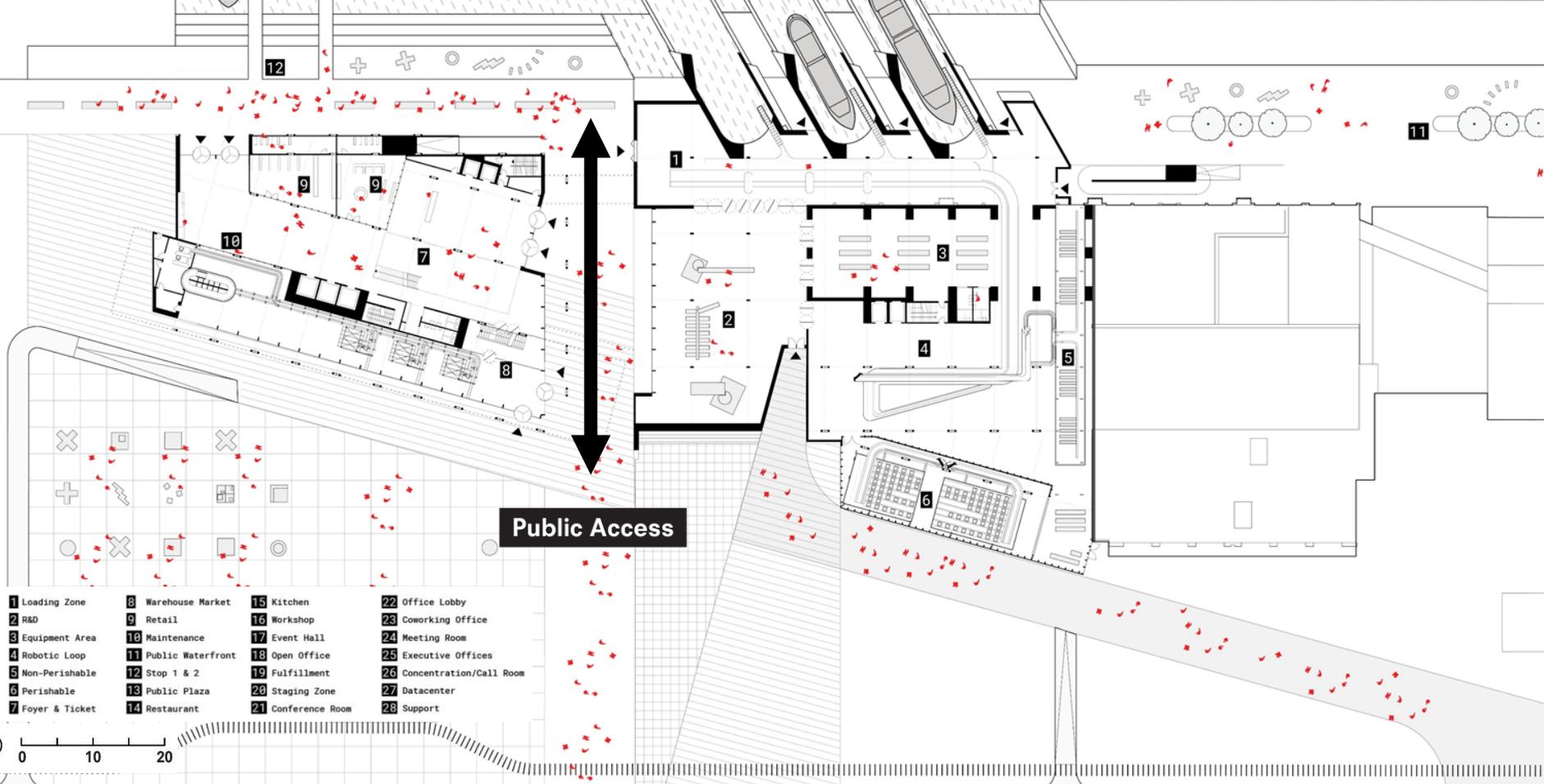
Ground Floor +1.2 m



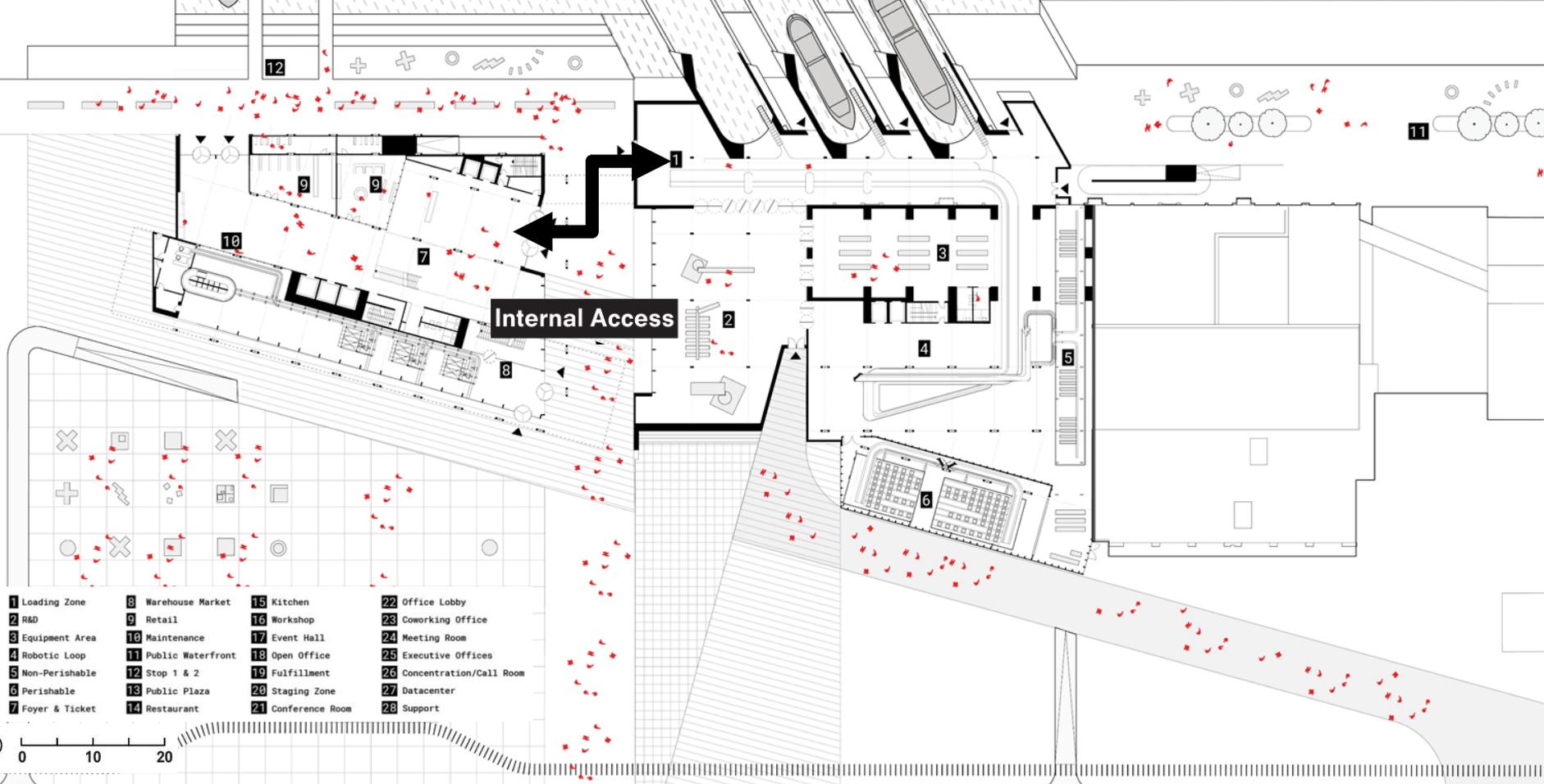
- | | | | |
|------------------|----------------------|--------------------|----------------------------|
| 1 Loading Zone | 8 Warehouse Market | 15 Kitchen | 22 Office Lobby |
| 2 R&D | 9 Retail | 16 Workshop | 23 Coworking Office |
| 3 Equipment Area | 10 Maintenance | 17 Event Hall | 24 Meeting Room |
| 4 Robotic Loop | 11 Public Waterfront | 18 Open Office | 25 Executive Offices |
| 5 Non-Perishable | 12 Stop 1 & 2 | 19 Fulfillment | 26 Concentration/Call Room |
| 6 Perishable | 13 Public Plaza | 20 Staging Zone | 27 Datacenter |
| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |



Ground Floor +1.2 m



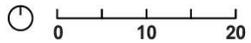
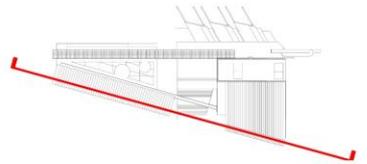
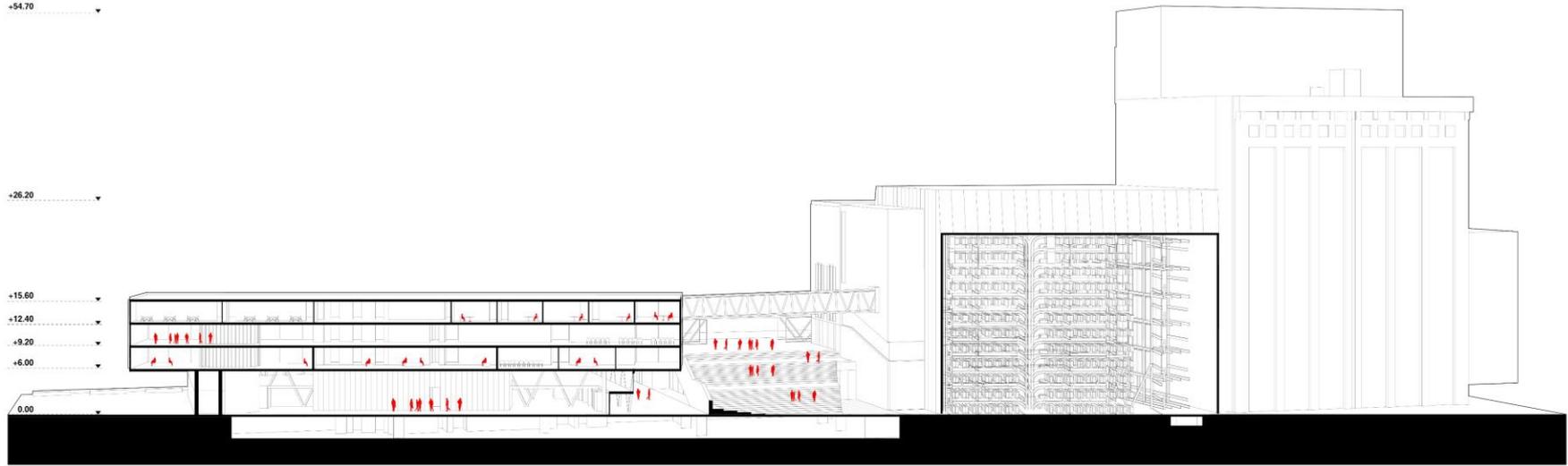
Ground Floor +1.2 m

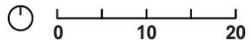
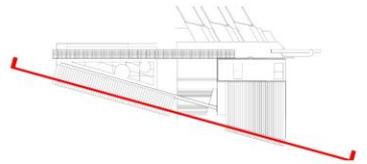
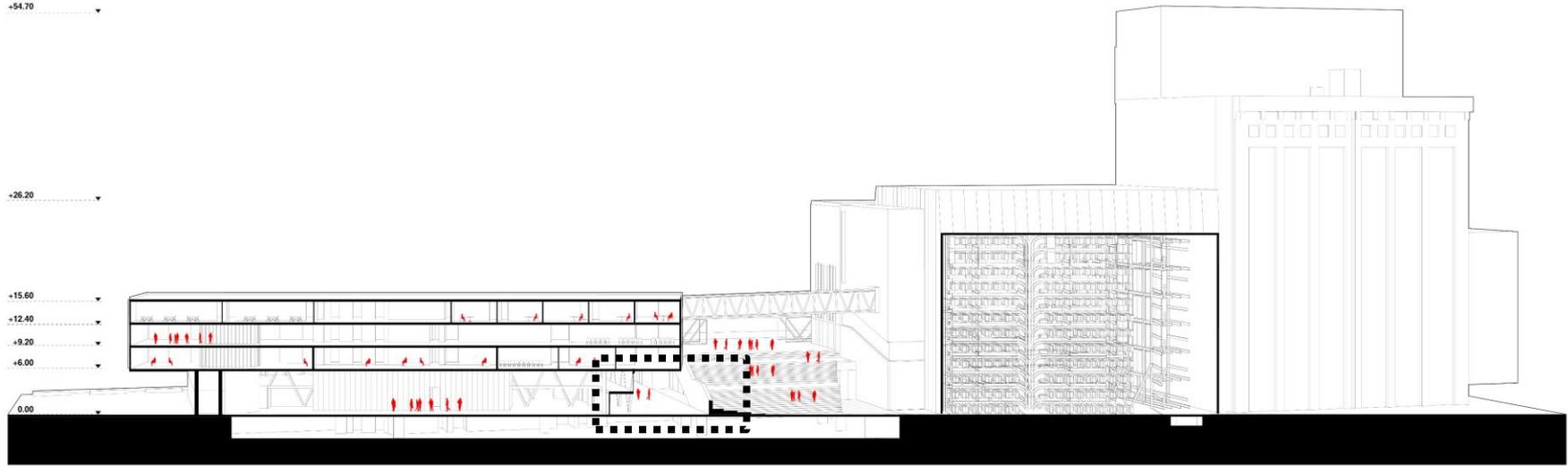


Internal Access

- | | | | |
|------------------|----------------------|--------------------|----------------------------|
| 1 Loading Zone | 8 Warehouse Market | 15 Kitchen | 22 Office Lobby |
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| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |

0 10 20





Approaching



Foyer & Tickets



Albert Heijn

HEIJN

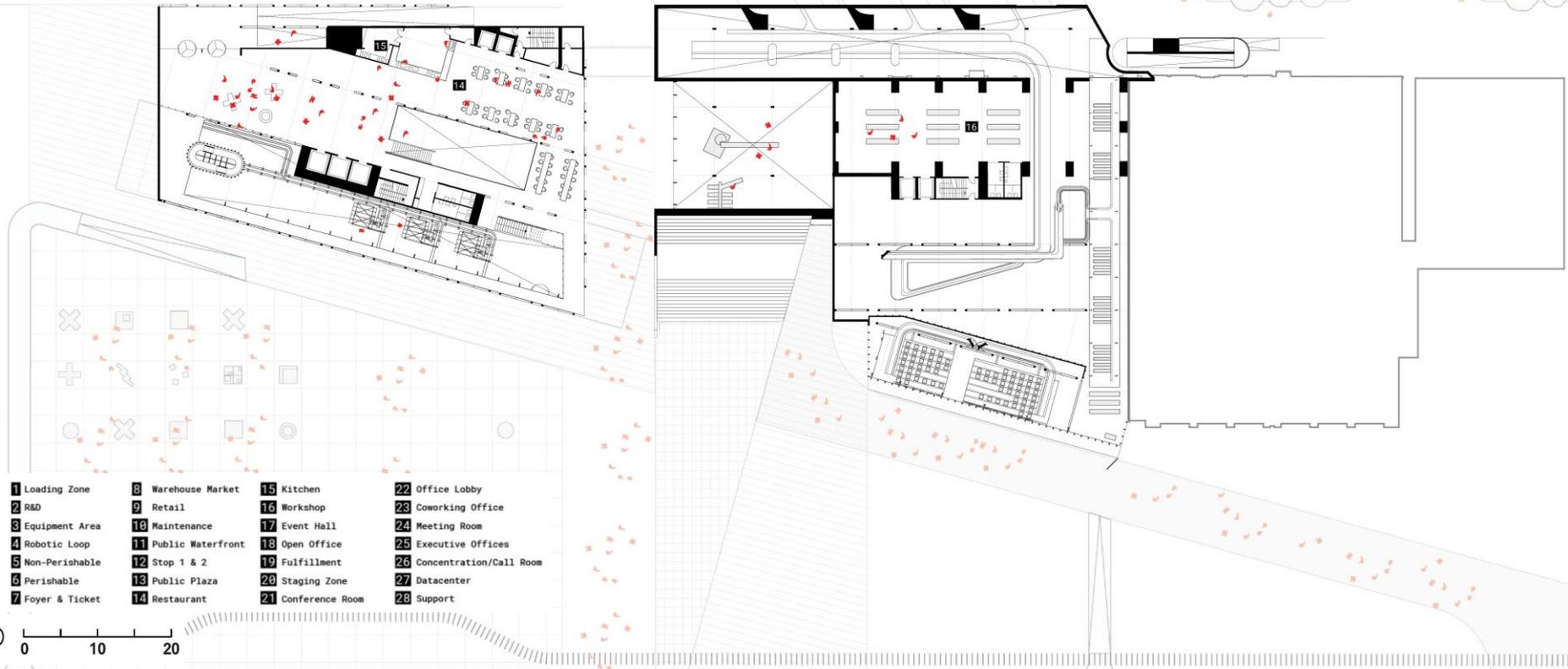
Foyer & Tickets



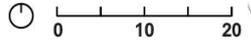
RESTAURANT →
TAXI →



First Floor +4.2 m



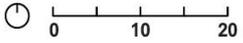
- | | | | |
|------------------|----------------------|--------------------|----------------------------|
| 1 Loading Zone | 8 Warehouse Market | 15 Kitchen | 22 Office Lobby |
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| 5 Non-Perishable | 12 Stop 1 & 2 | 19 Fulfillment | 26 Concentration/Call Room |
| 6 Perishable | 13 Public Plaza | 20 Staging Zone | 27 Datacenter |
| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |



First Floor +4.2 m



- | | | | |
|------------------|----------------------|--------------------|----------------------------|
| 1 Loading Zone | 8 Warehouse Market | 15 Kitchen | 22 Office Lobby |
| 2 R&D | 9 Retail | 16 Workshop | 23 Coworking Office |
| 3 Equipment Area | 10 Maintenance | 17 Event Hall | 24 Meeting Room |
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| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |



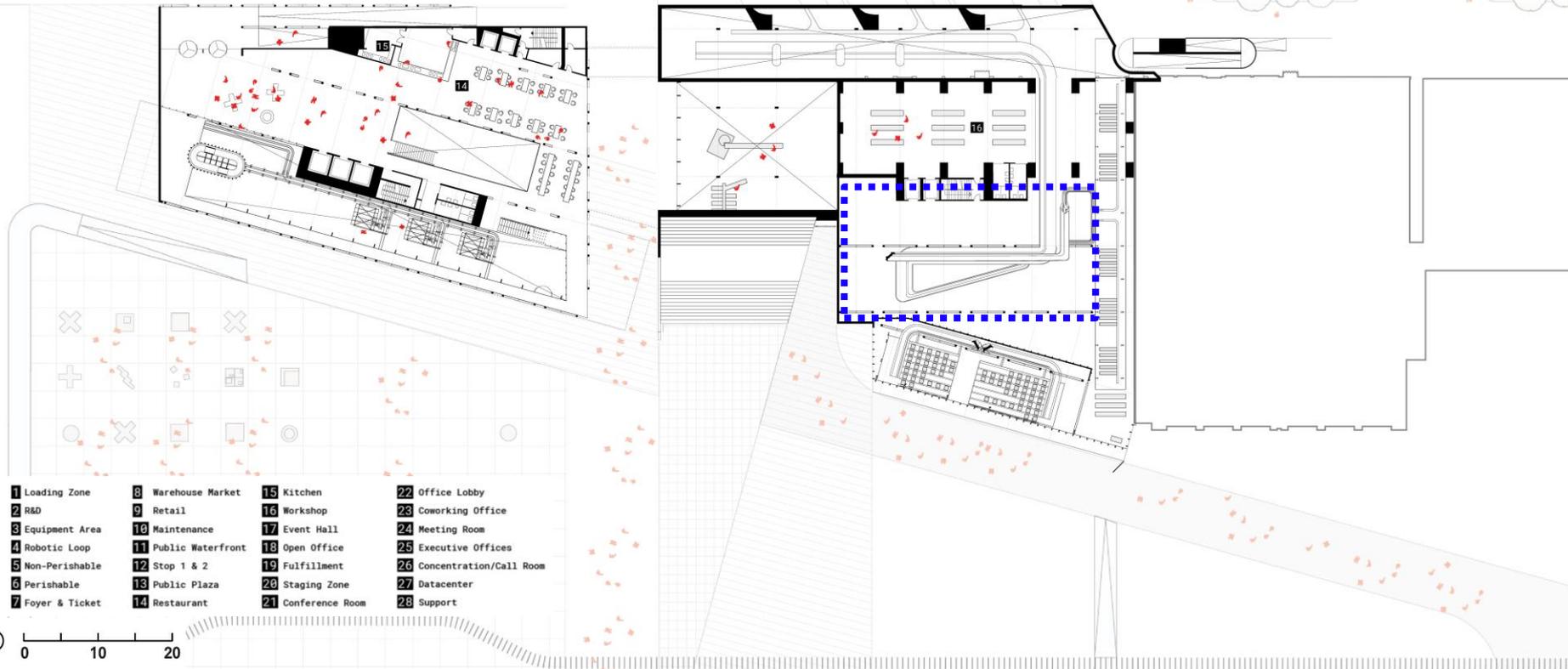
Ramp



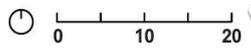
Restaurant



First Floor +4.2 m



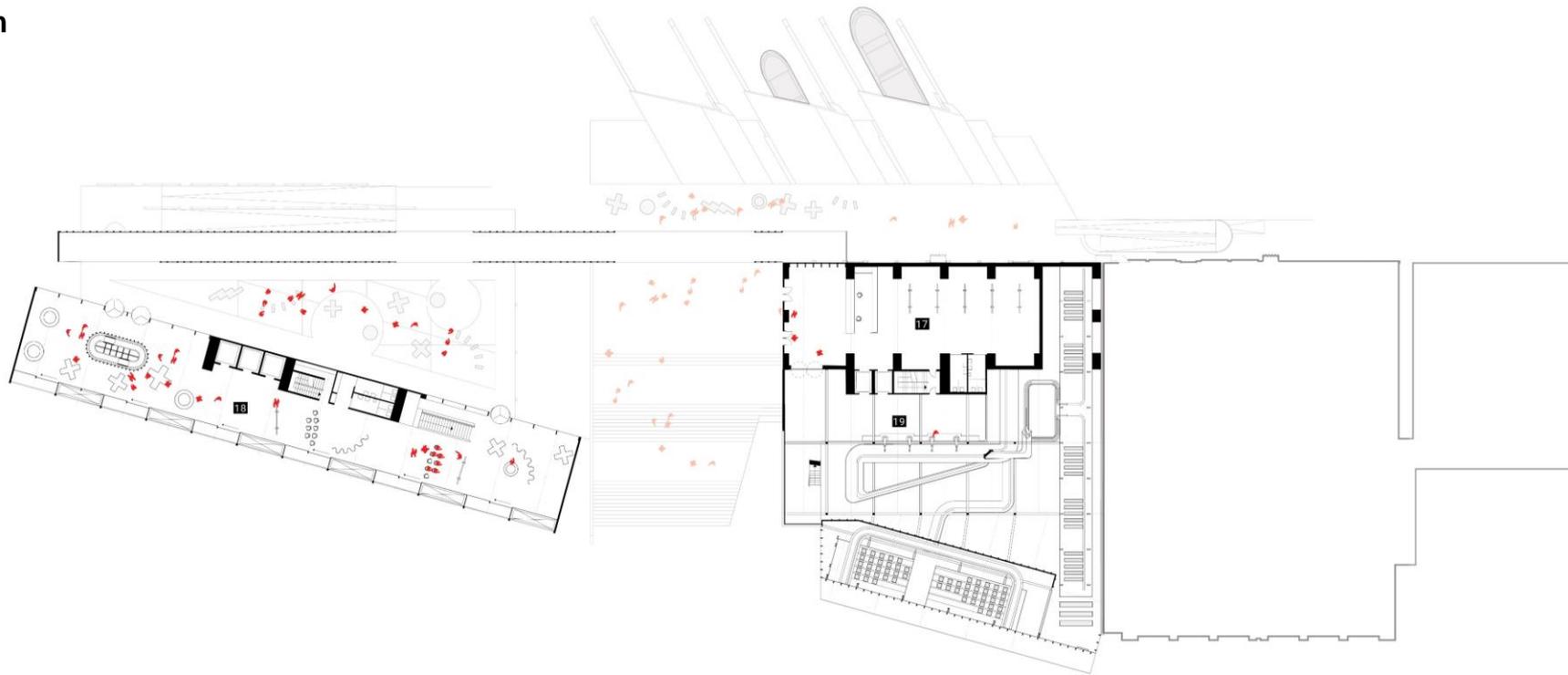
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| 6 Perishable | 13 Public Plaza | 20 Staging Zone | 27 Datacenter |
| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |



Warehouse Storage - Robotic Loop



Second Floor +7.2 m

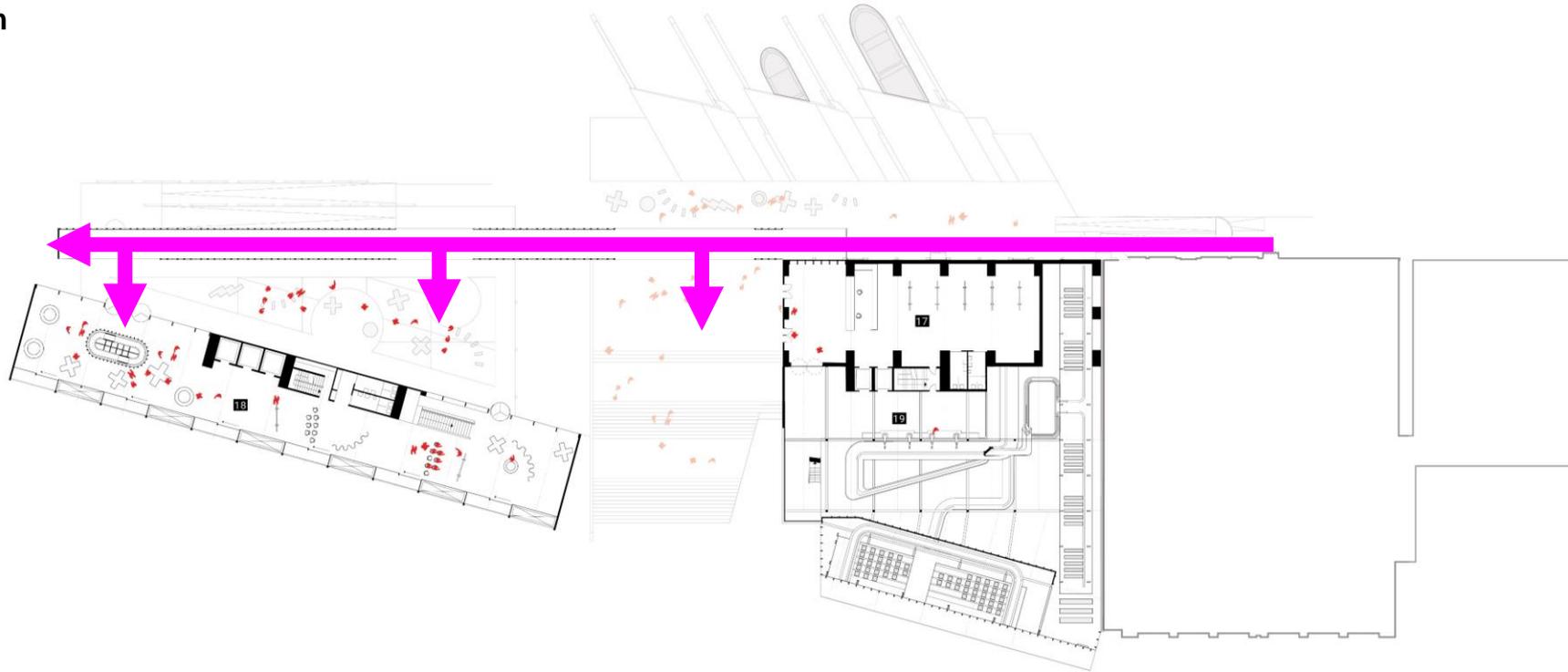


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| 6 Perishable | 13 Public Plaza | 20 Staging Zone | 27 Datacenter |
| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |

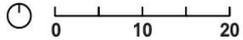


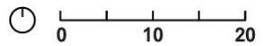
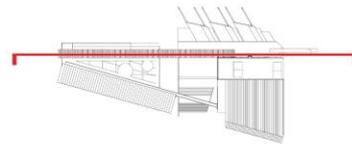
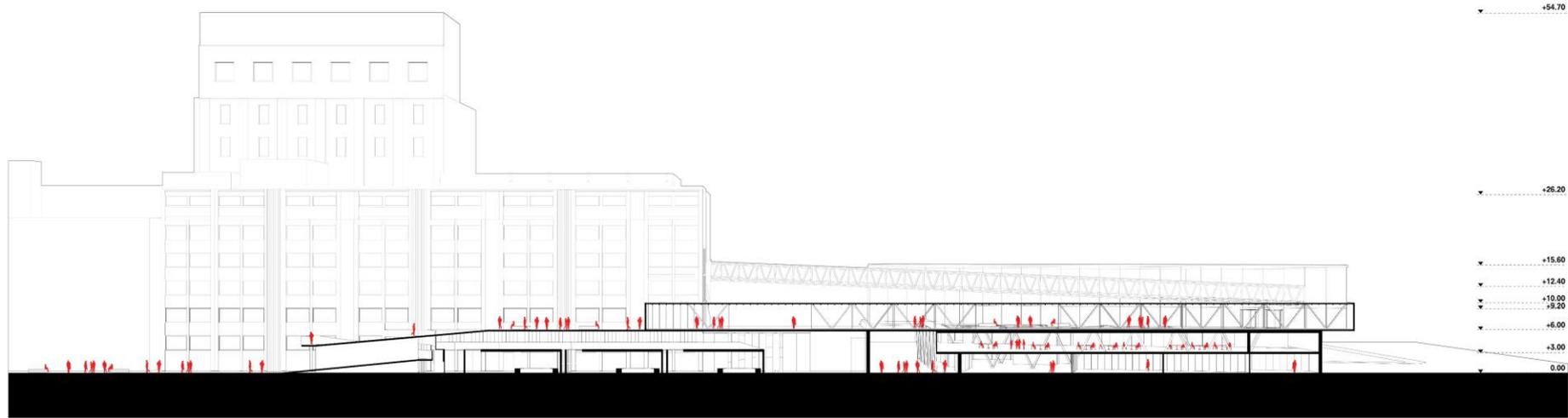
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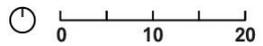
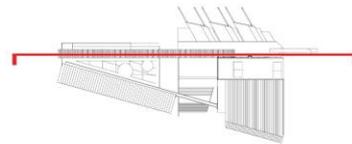
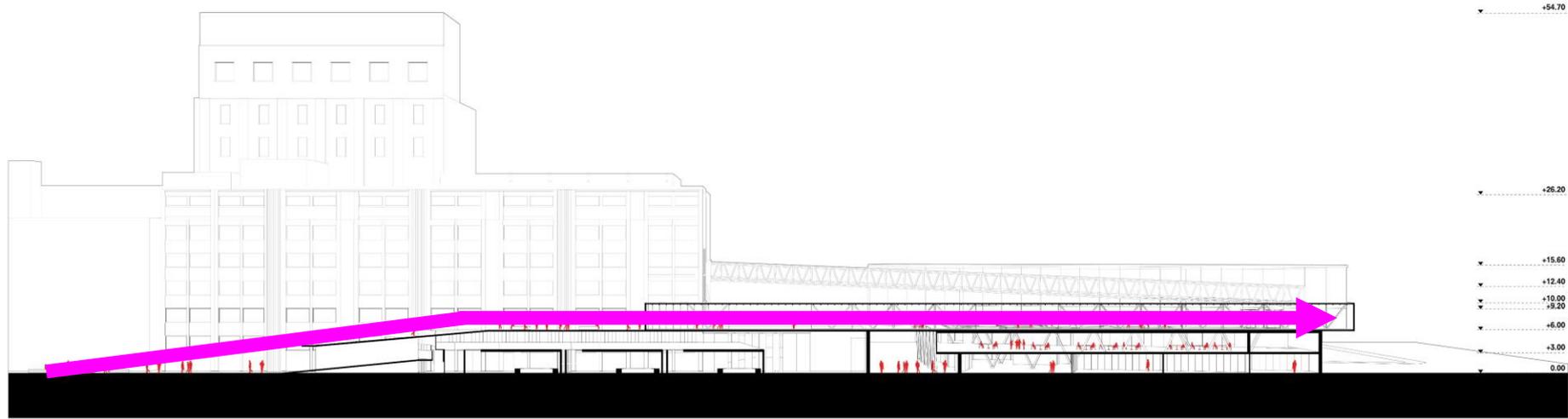
Second Floor +7.2 m



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| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |



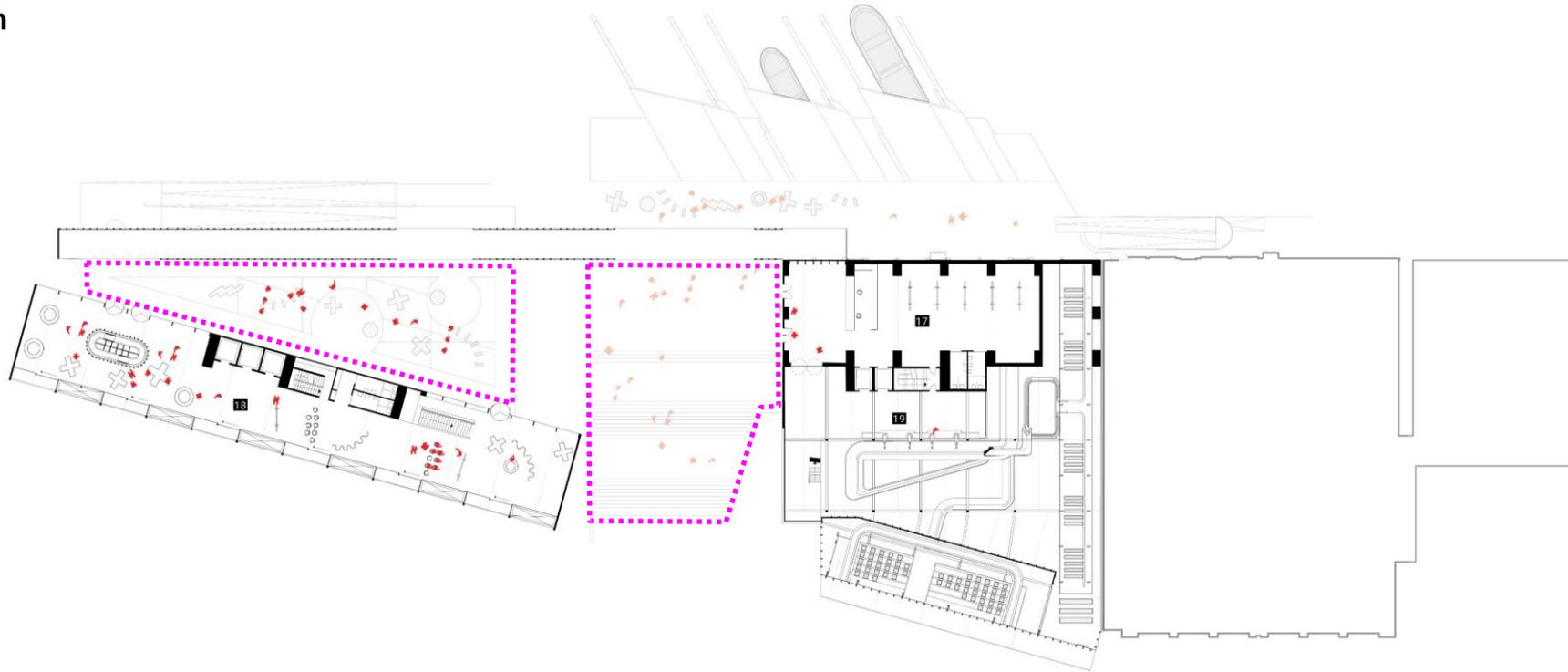




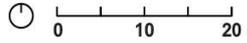
Elevated Public Path



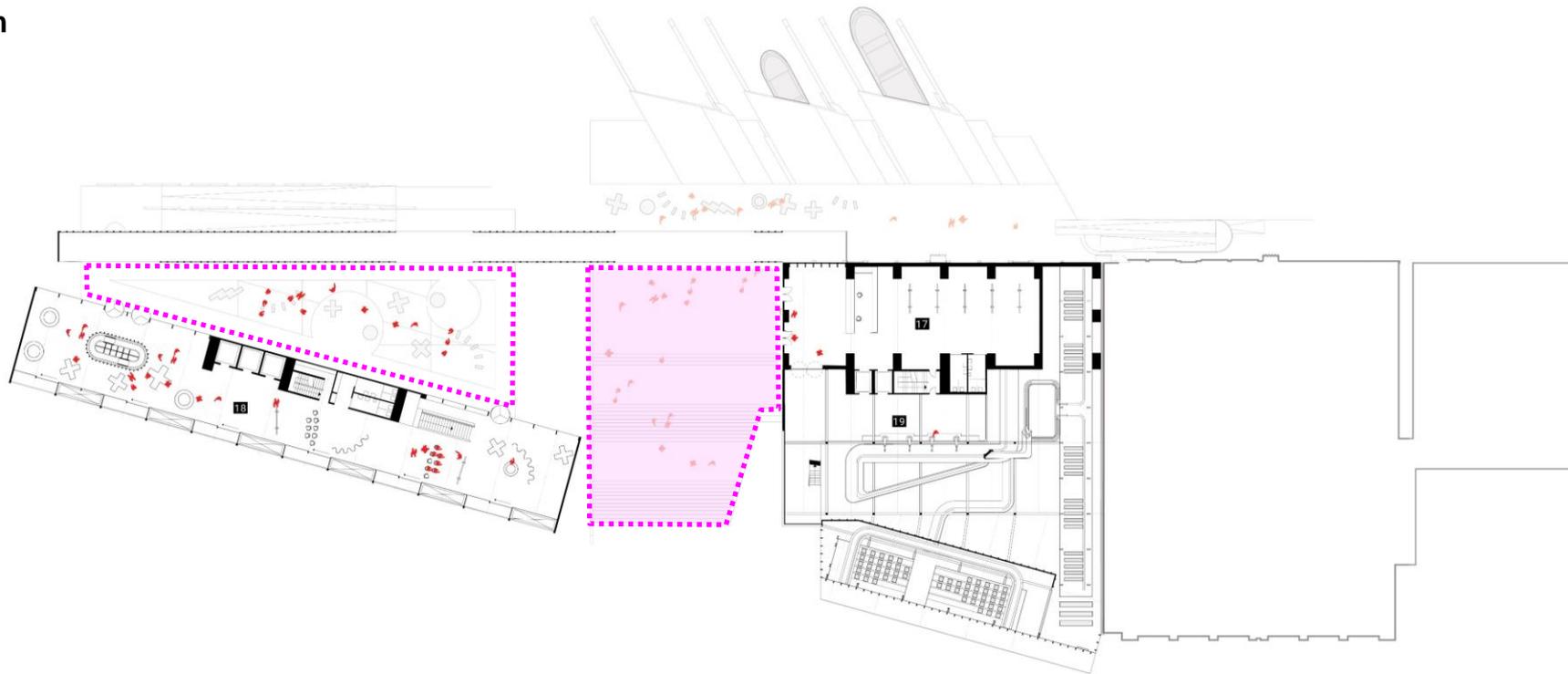
Second Floor +7.2 m



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Second Floor +7.2 m

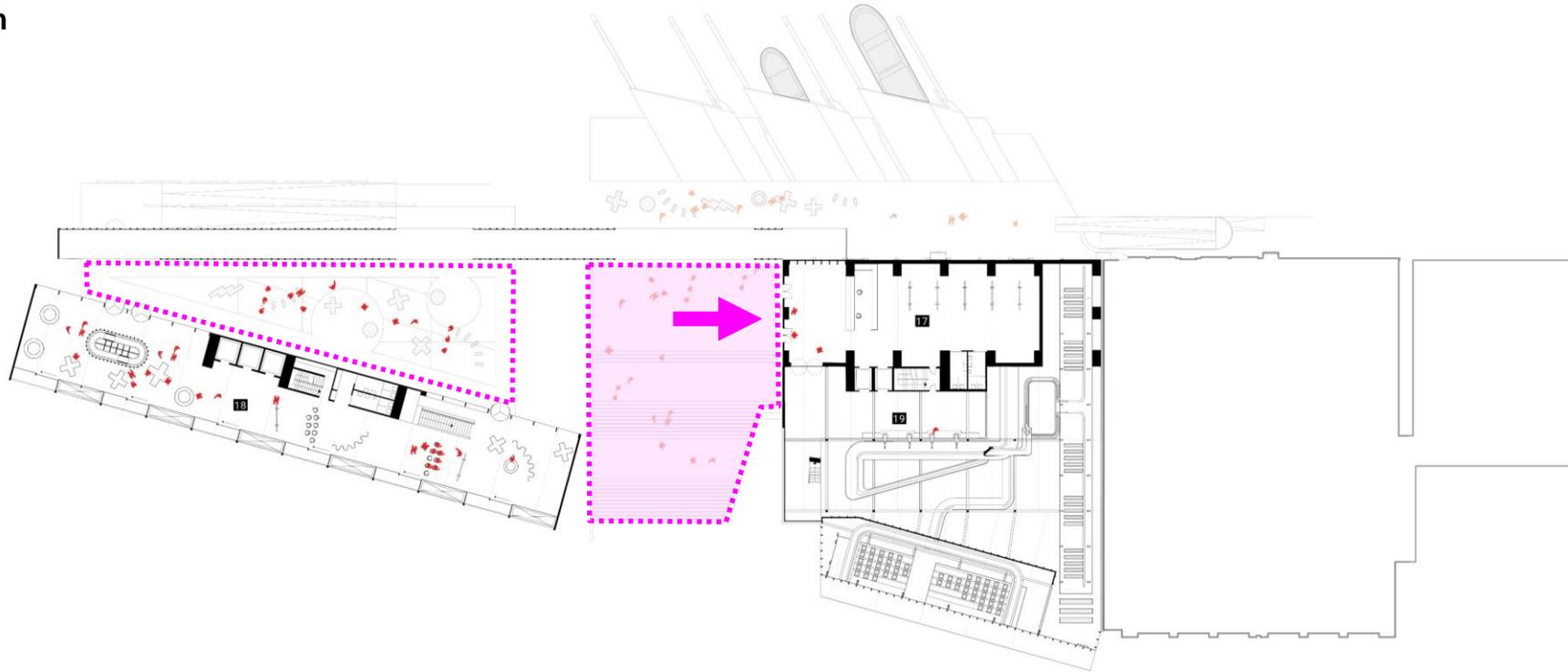


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| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |

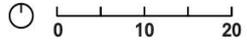


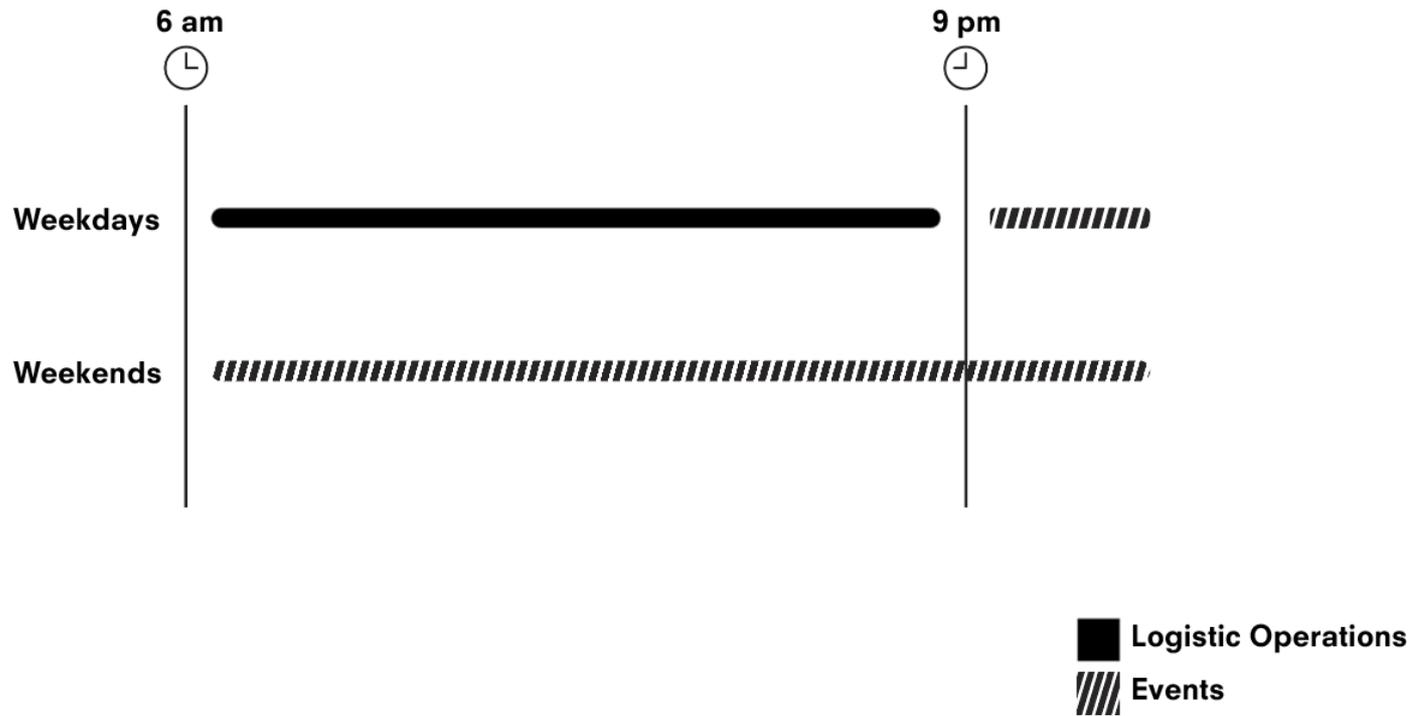
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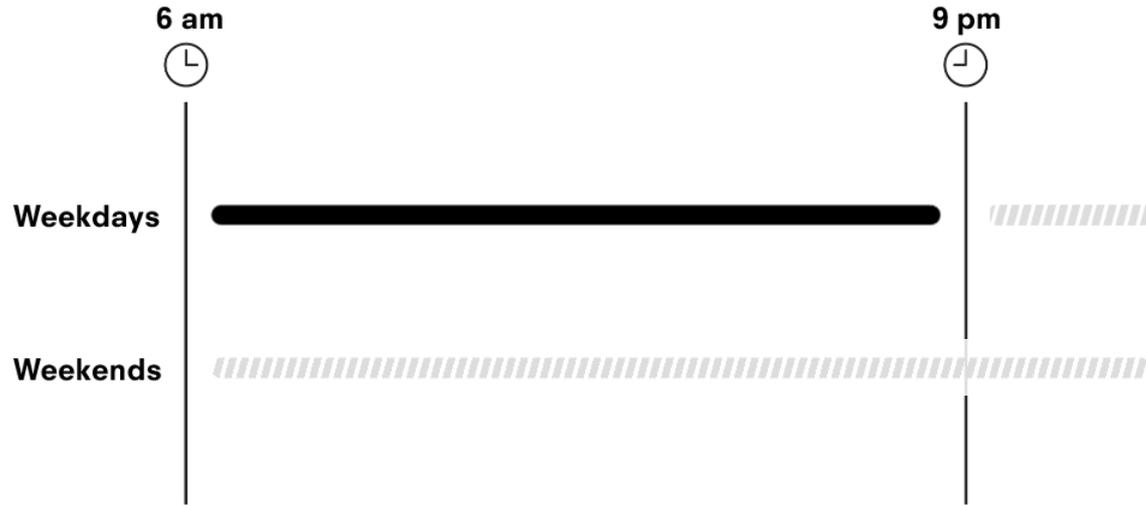
Second Floor +7.2 m



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|------------------|----------------------|--------------------|----------------------------|
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| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |

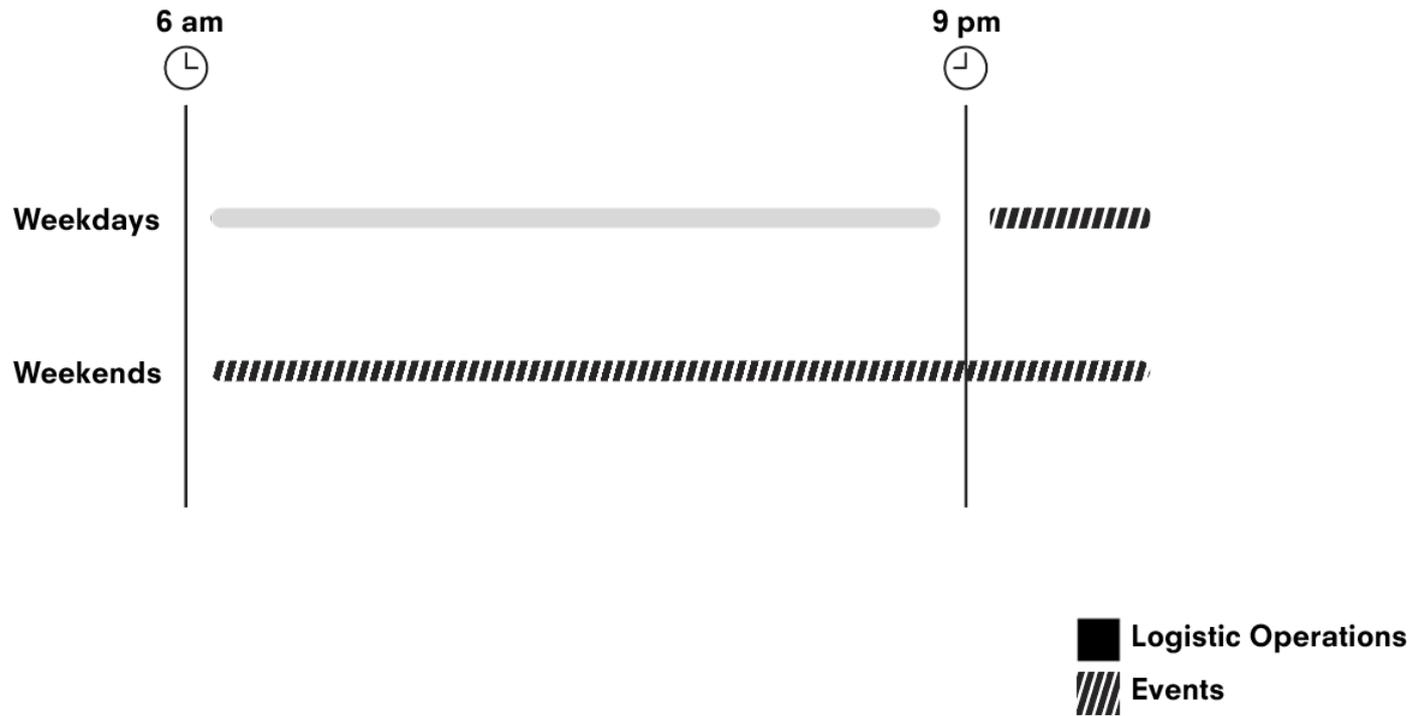






Public Terrace I - Day





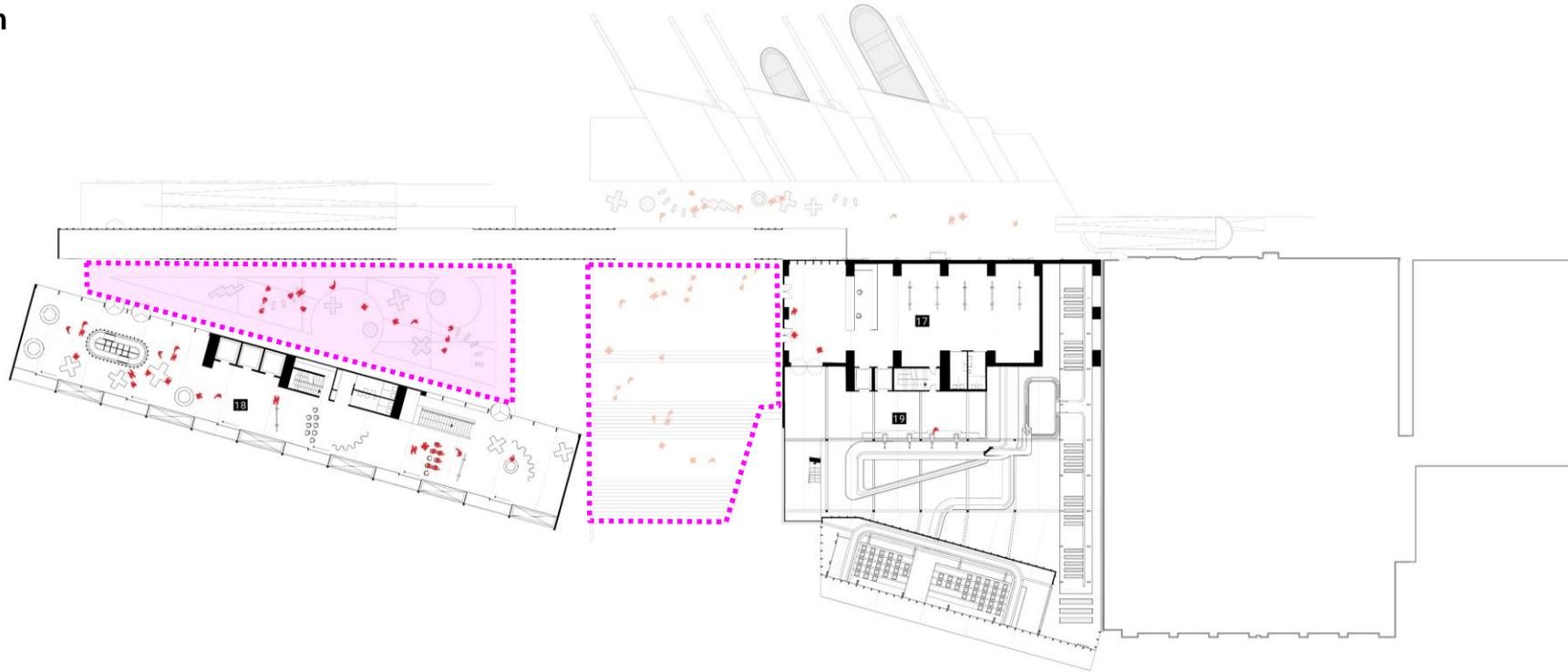
Public Terrace I - Night



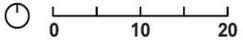
Event Hall



Second Floor +7.2 m



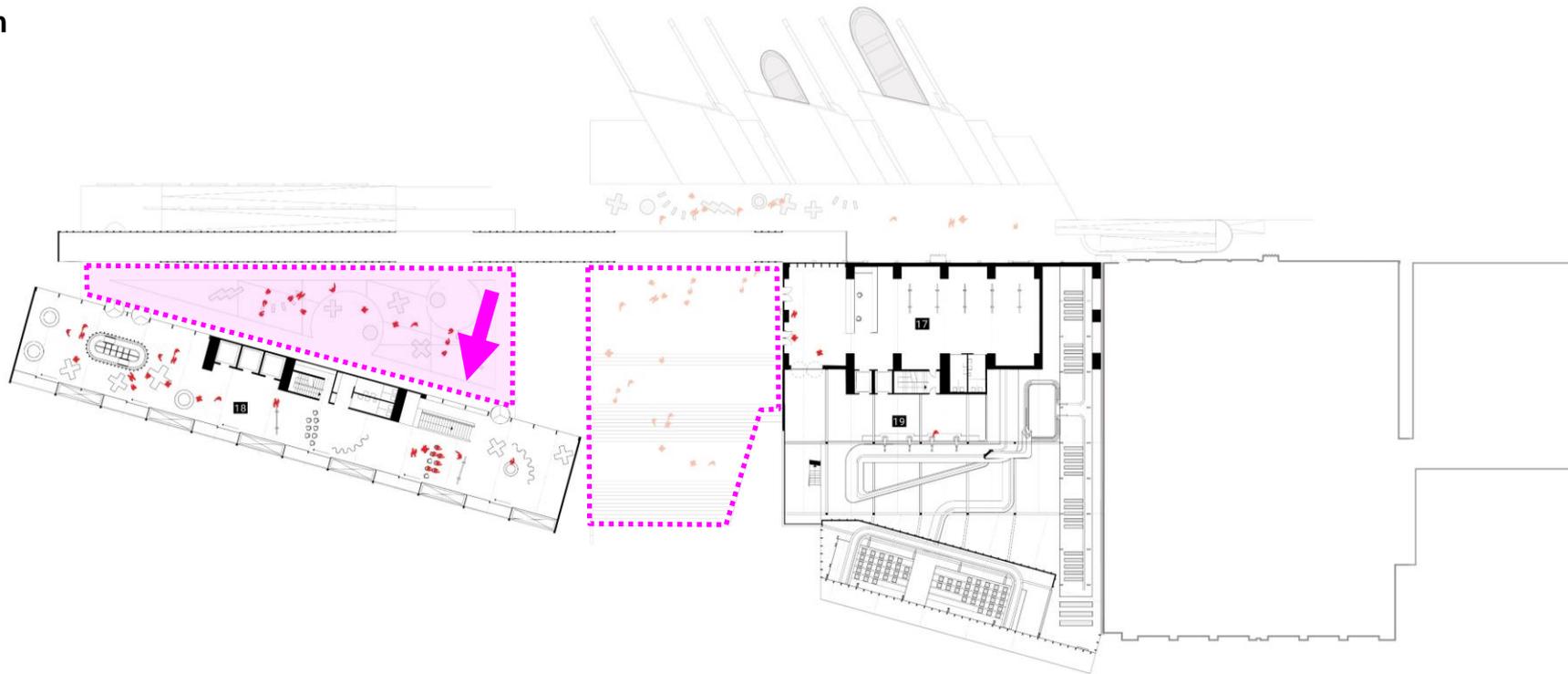
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|------------------|----------------------|--------------------|----------------------------|
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Public Terrace II



Second Floor +7.2 m



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|-------------------------|-----------------------------|---------------------------|-----------------------------------|
| 1 Loading Zone | 8 Warehouse Market | 15 Kitchen | 22 Office Lobby |
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| 6 Perishable | 13 Public Plaza | 20 Staging Zone | 27 Datacenter |
| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |

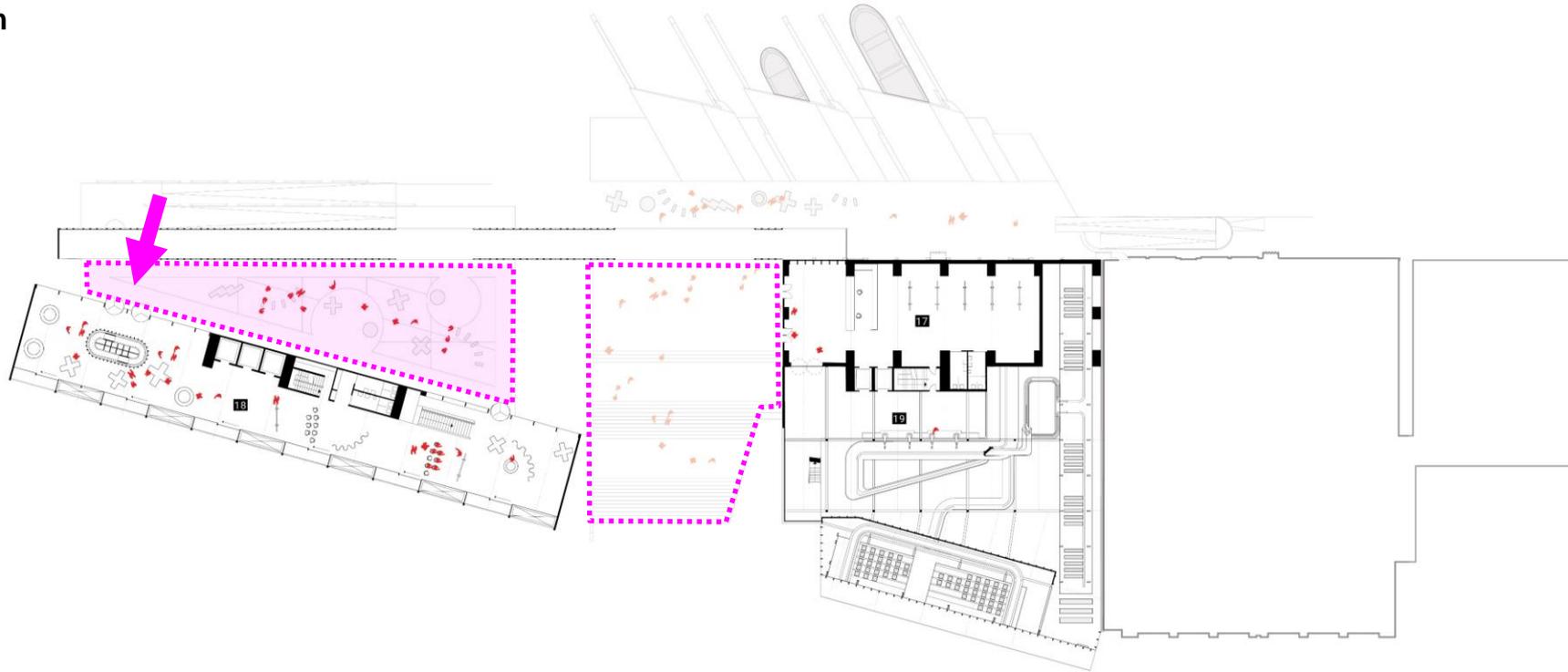


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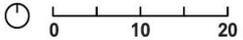
Public Terrace II



Second Floor +7.2 m



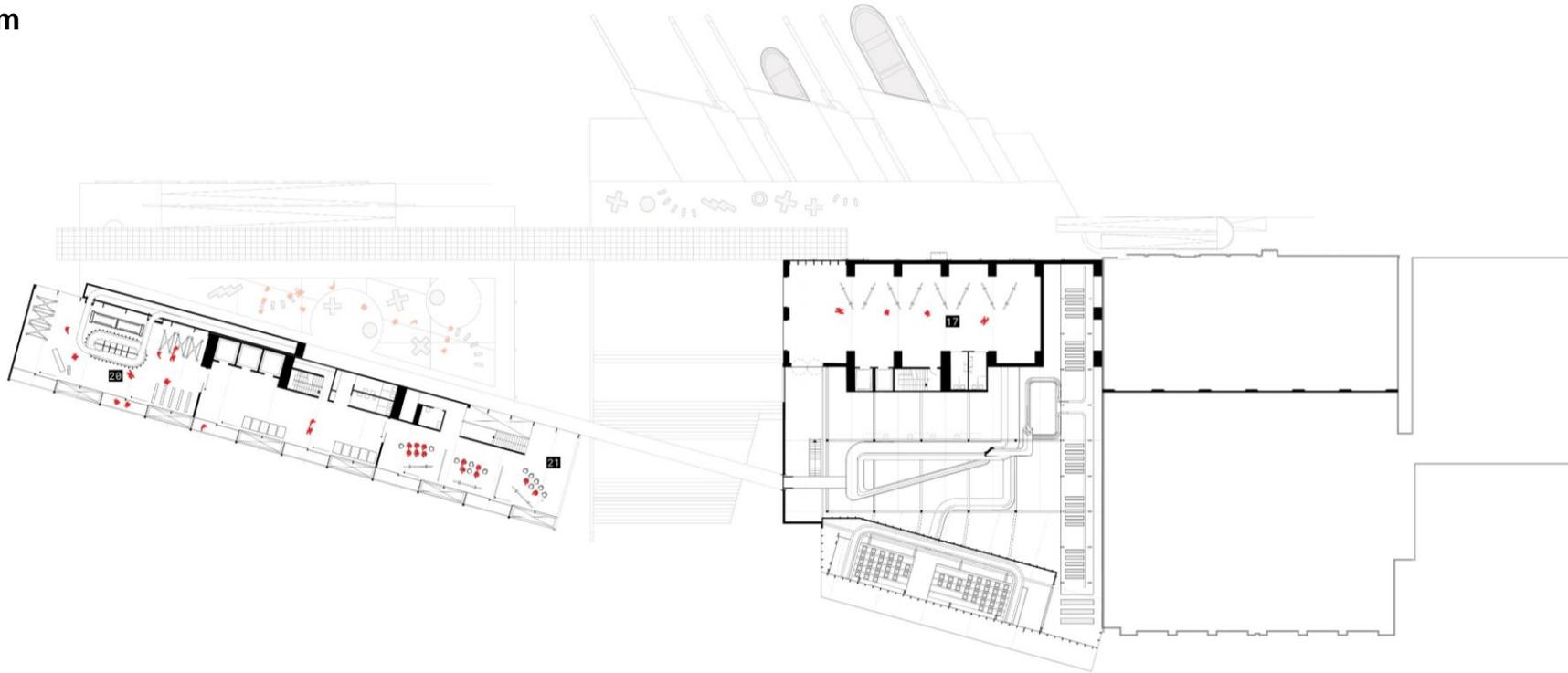
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| 7 Foyer & Ticket | 14 Restaurant | 21 Conference Room | 28 Support |



Coworking Space



Third Floor +10.4 m

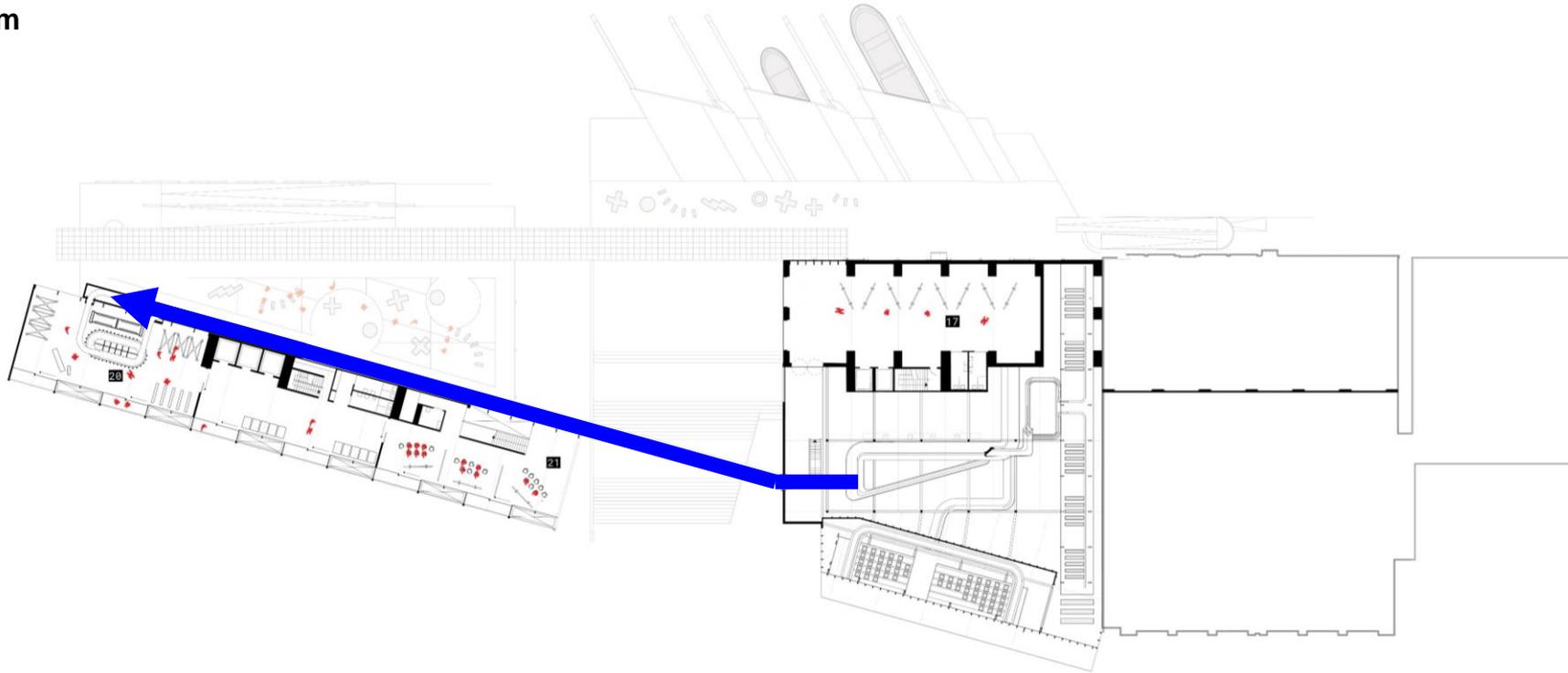


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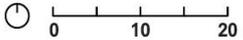


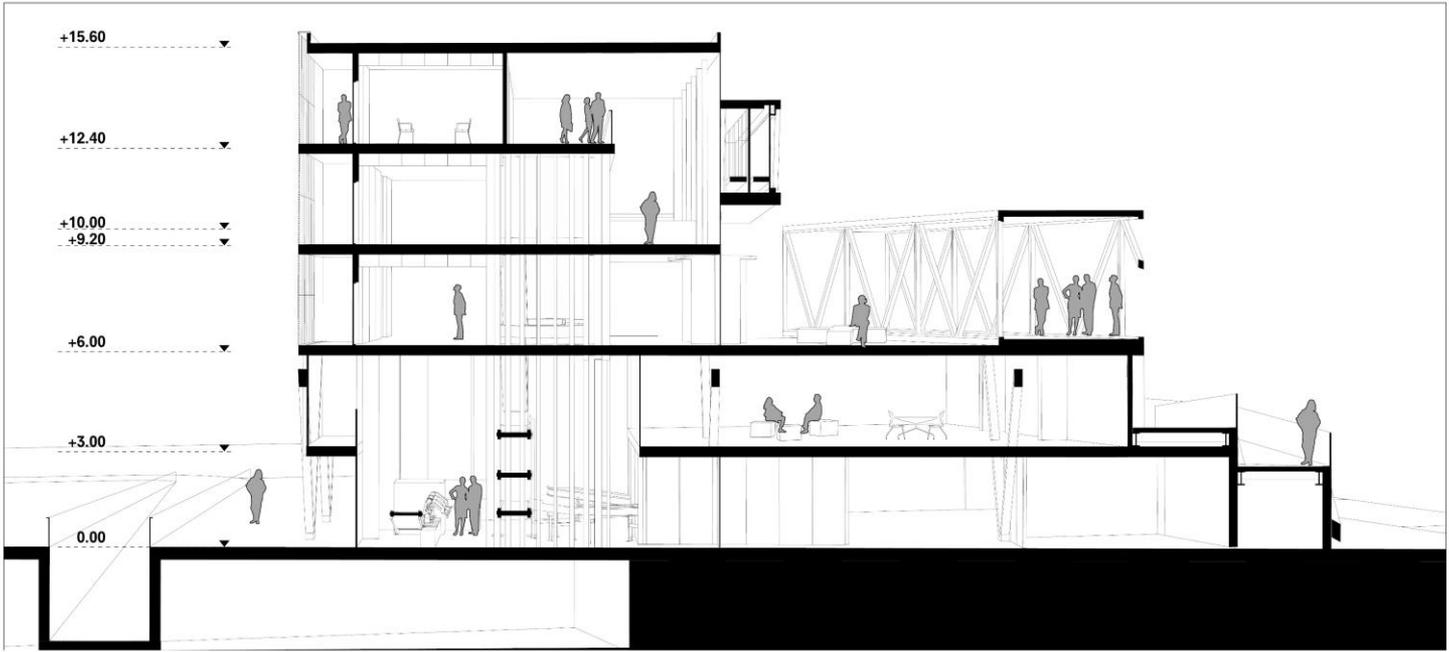
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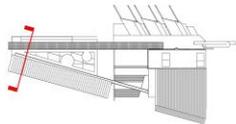
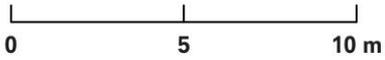
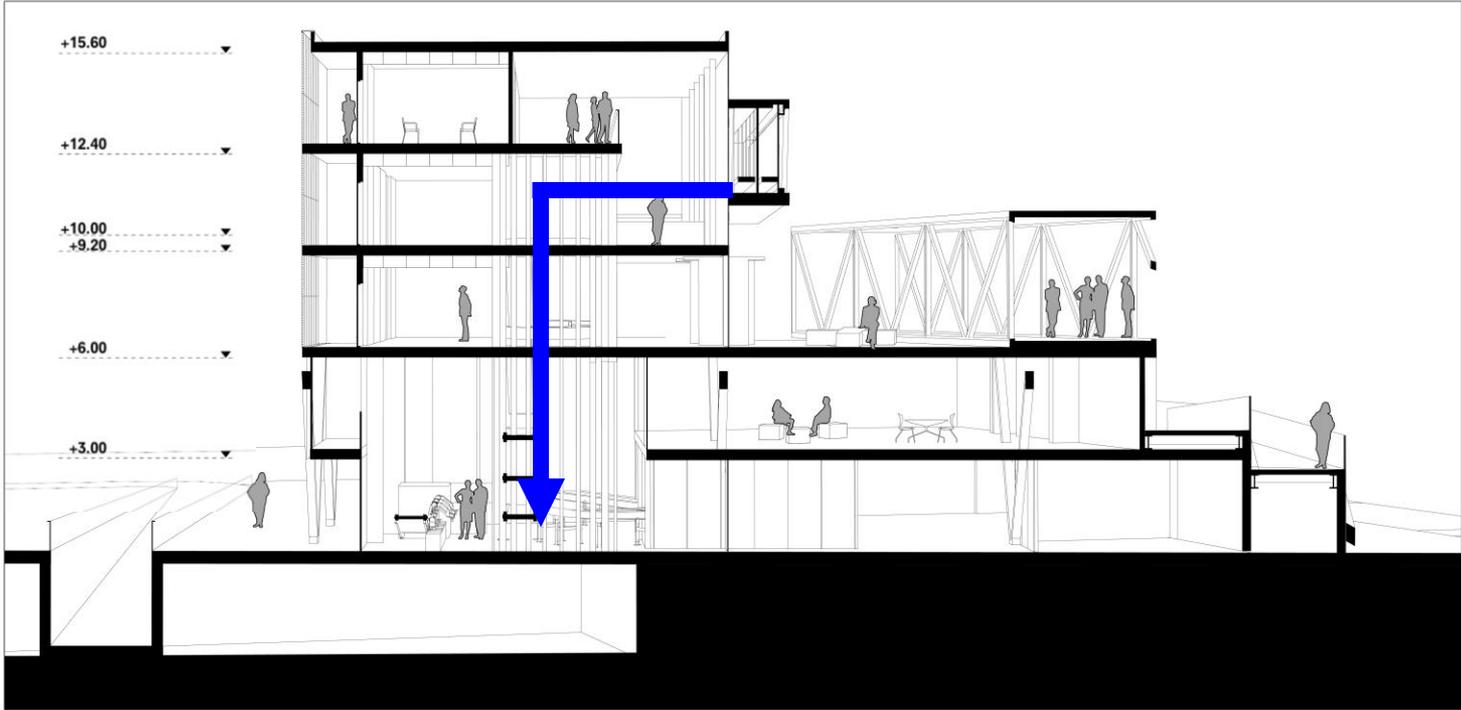
Third Floor +10.4 m



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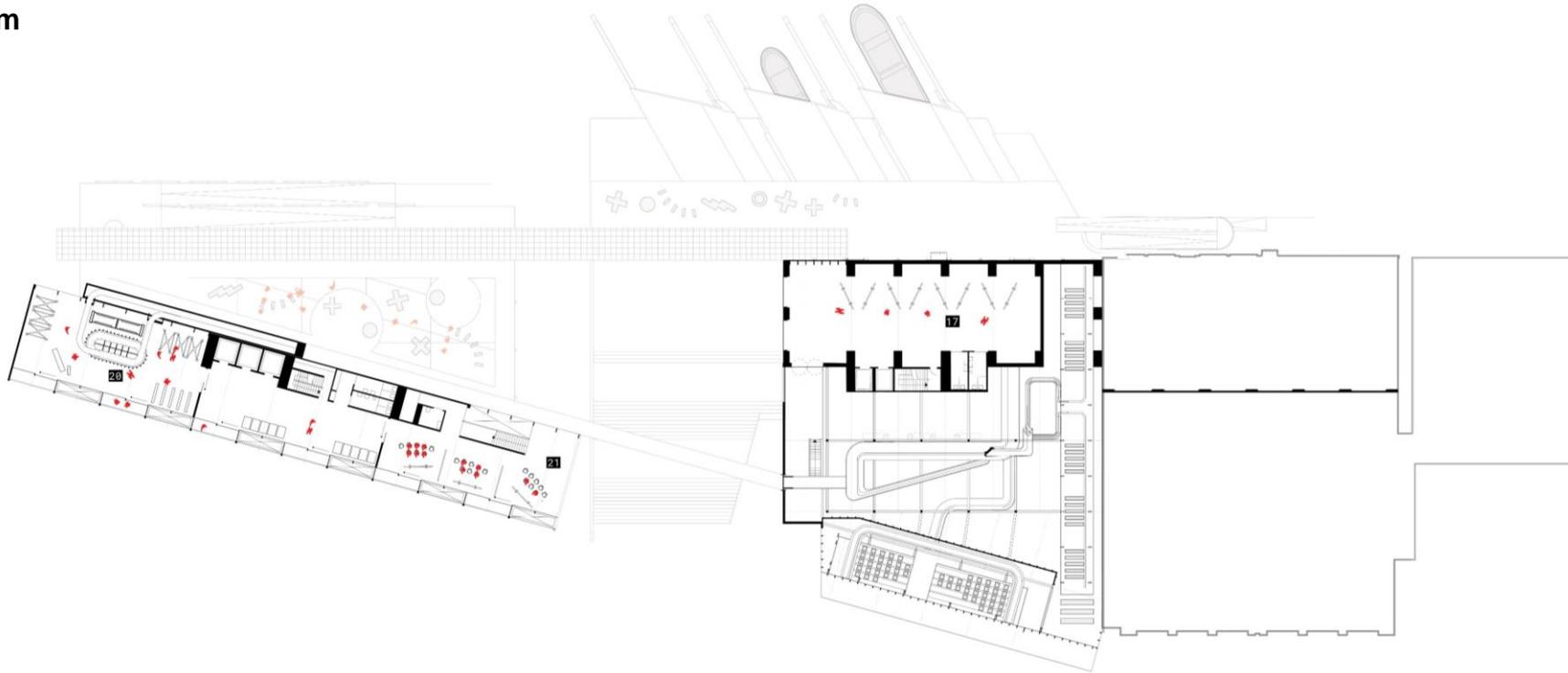
Warehouse Market



Shopping Unit



Third Floor +10.4 m

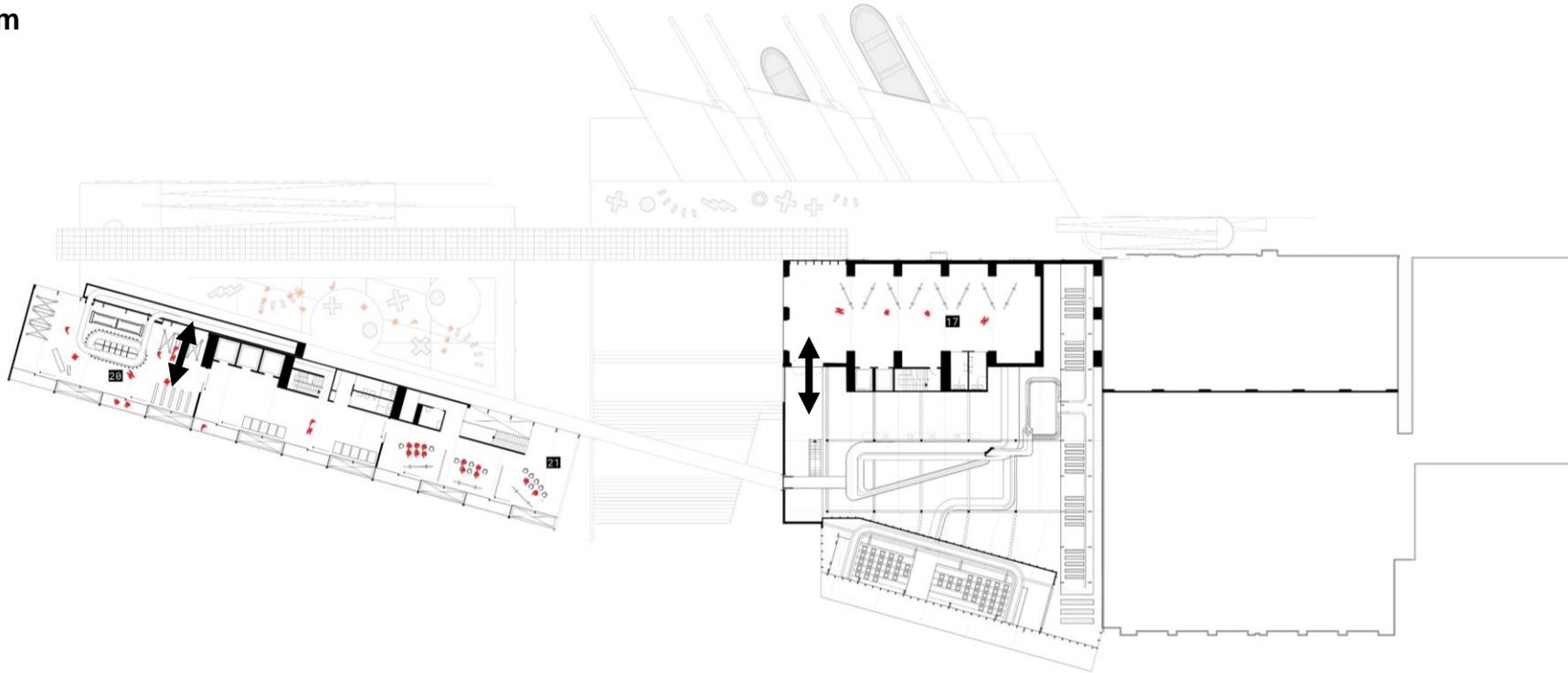


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Third Floor +10.4 m

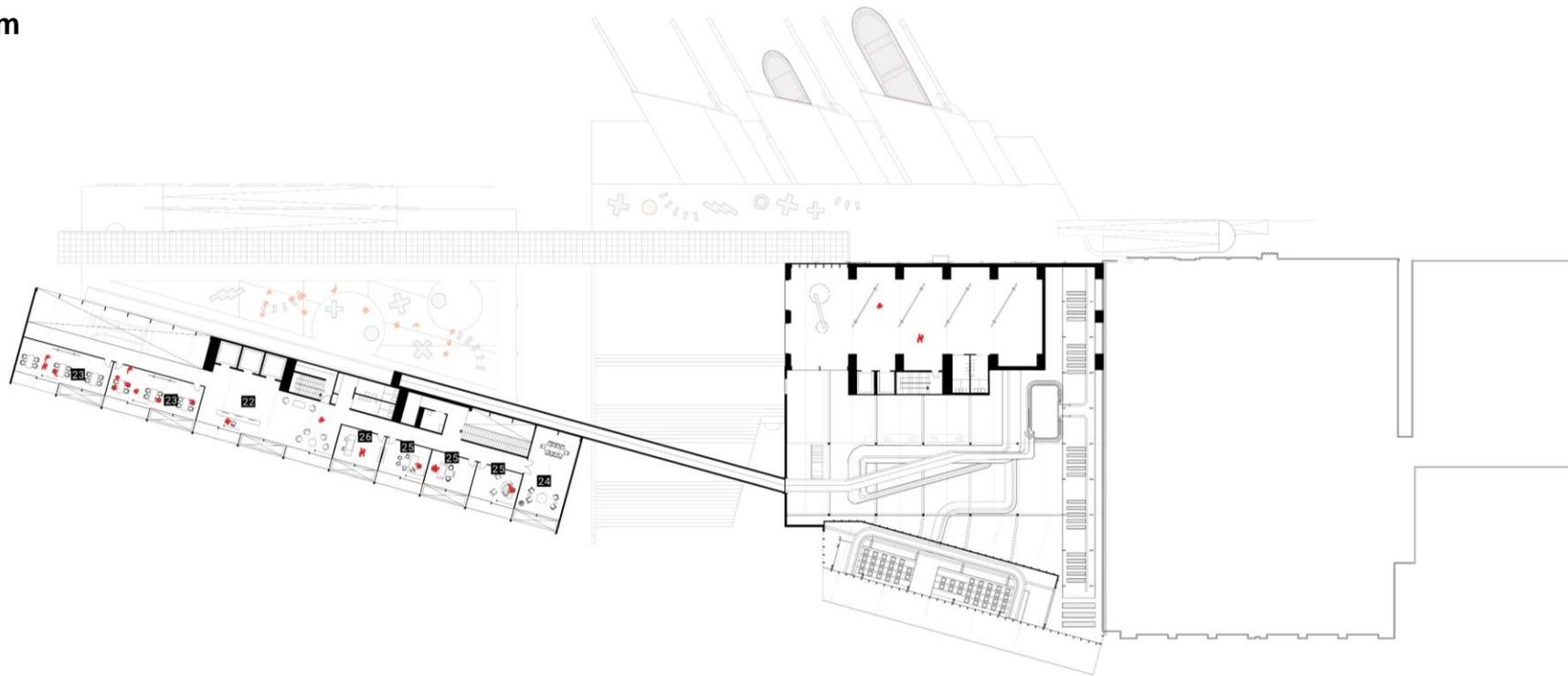


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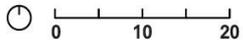


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Fourth Floor +13.6 m



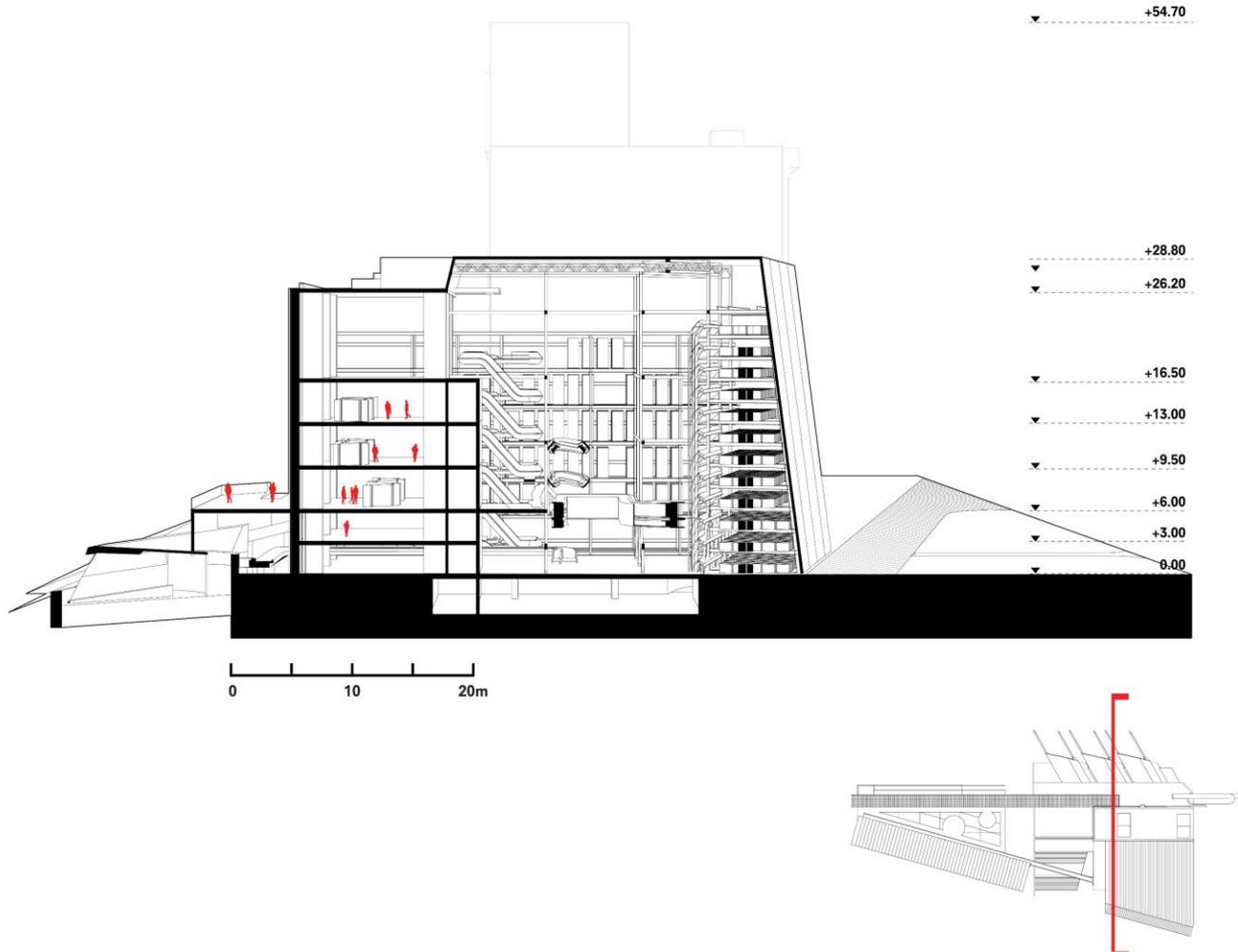
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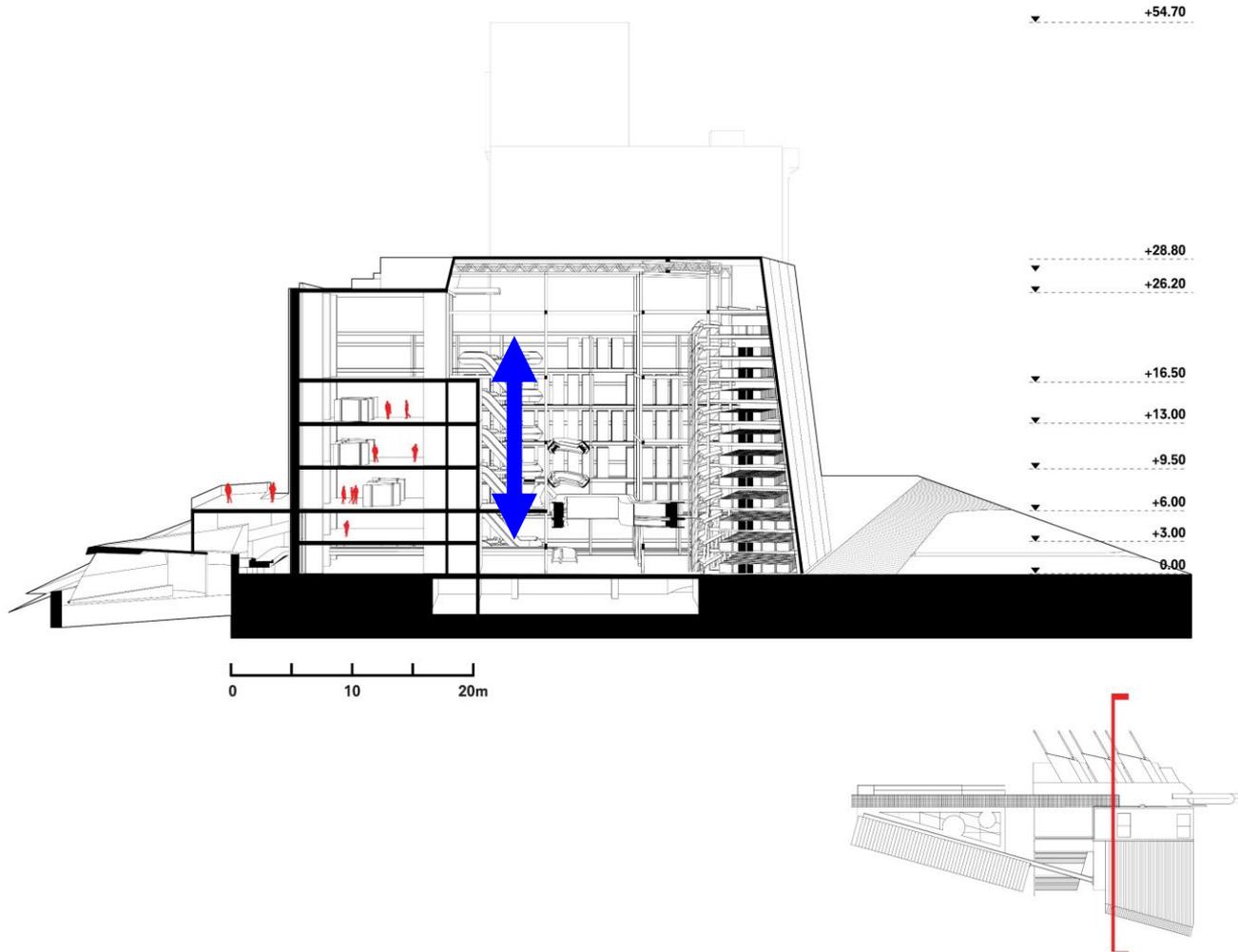
Offices



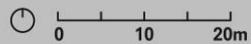
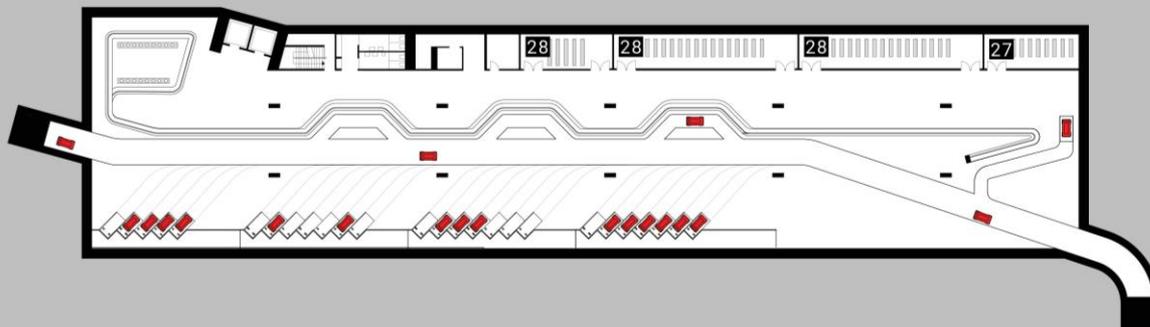
East Section



East Section

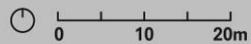
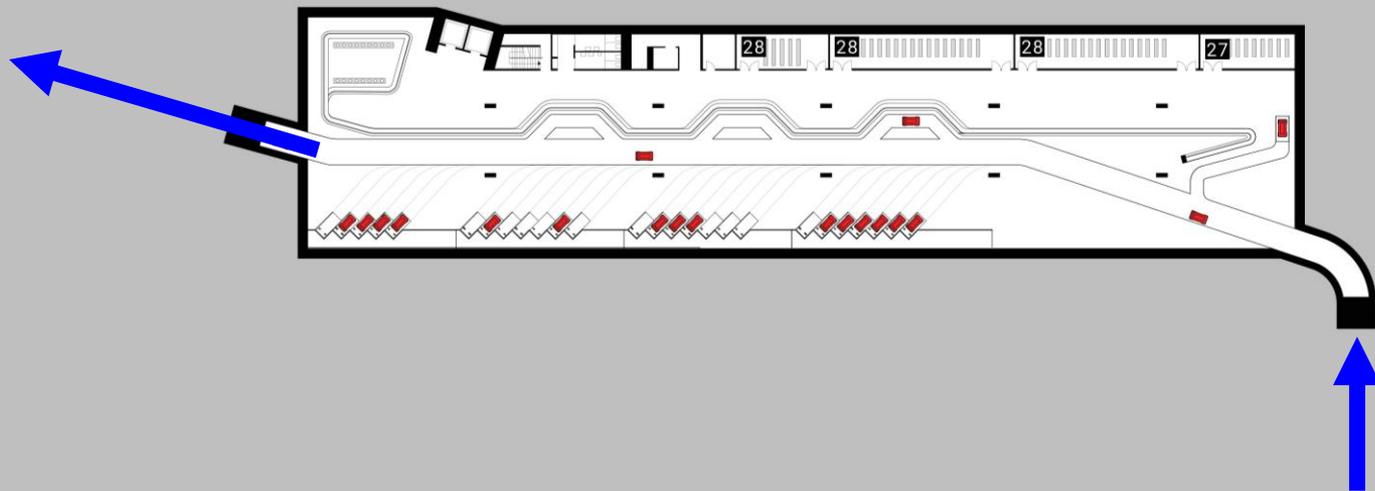


Fourth Floor
+13.6 m



27 Datacenter
28 Support

Fourth Floor
+13.6 m

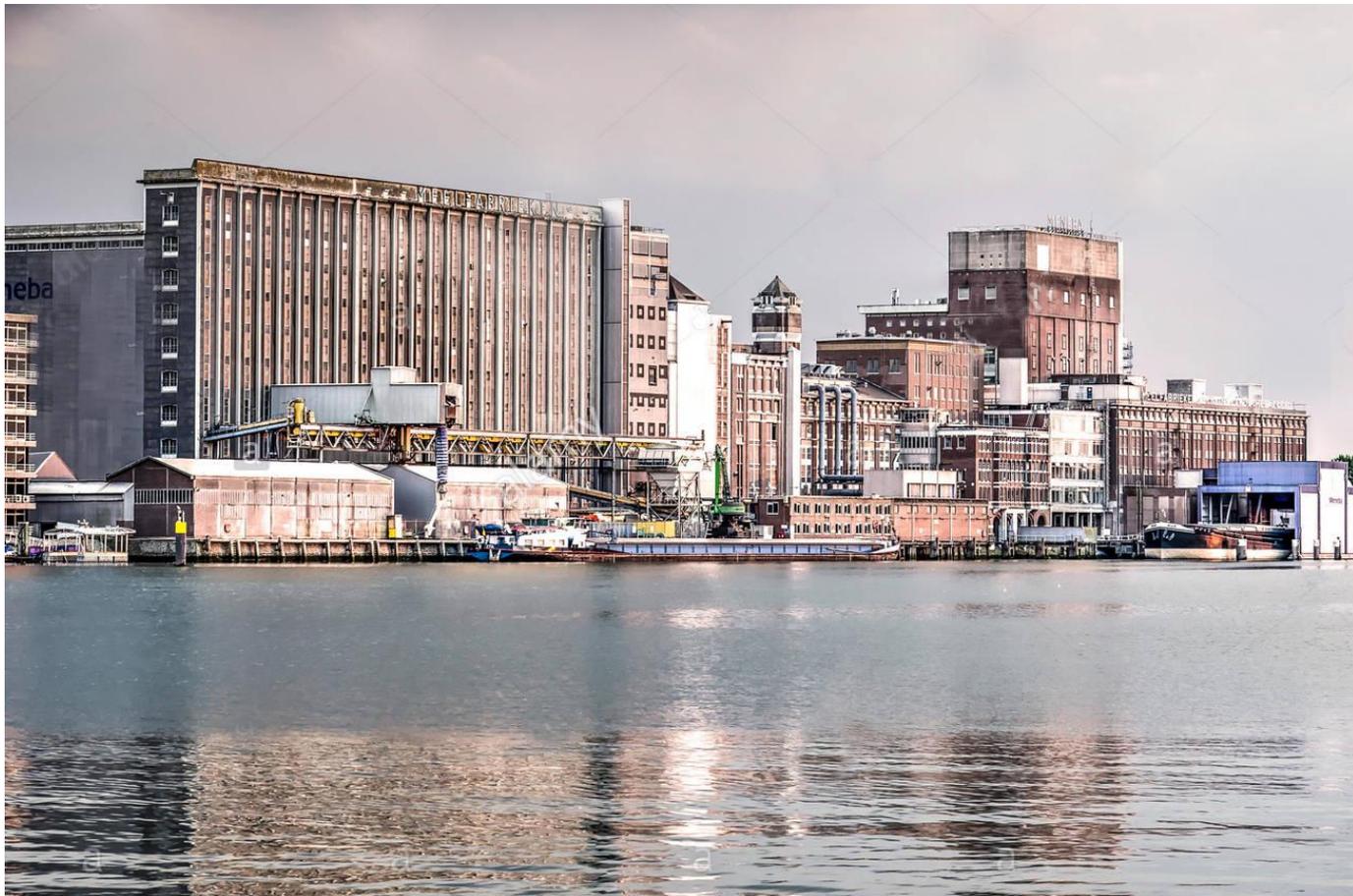


27 Datacenter
28 Support

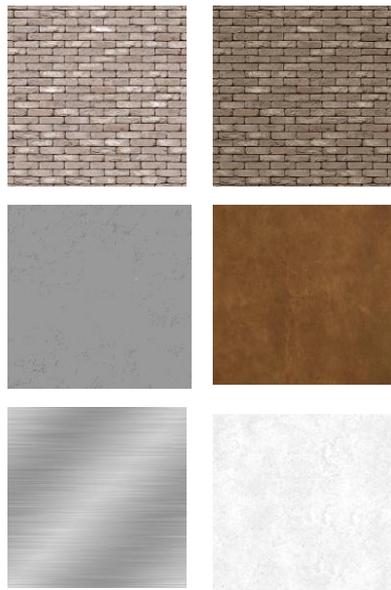
Last Mile Delivery



Materiality



Materiality



Existing Materials



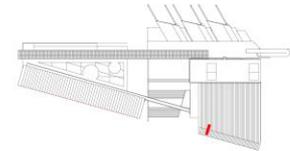
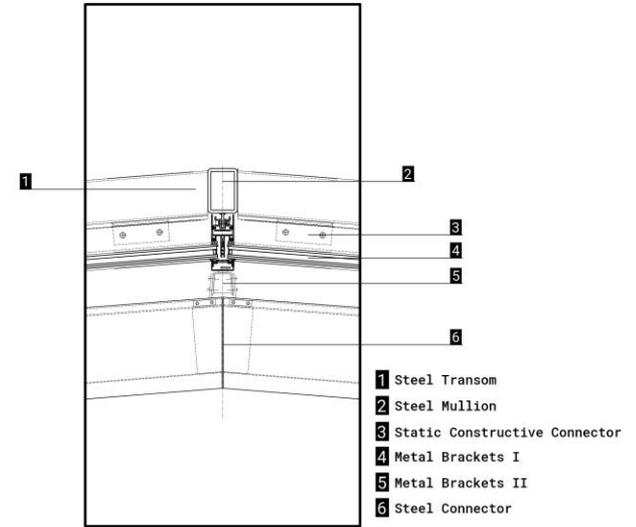
Materiality

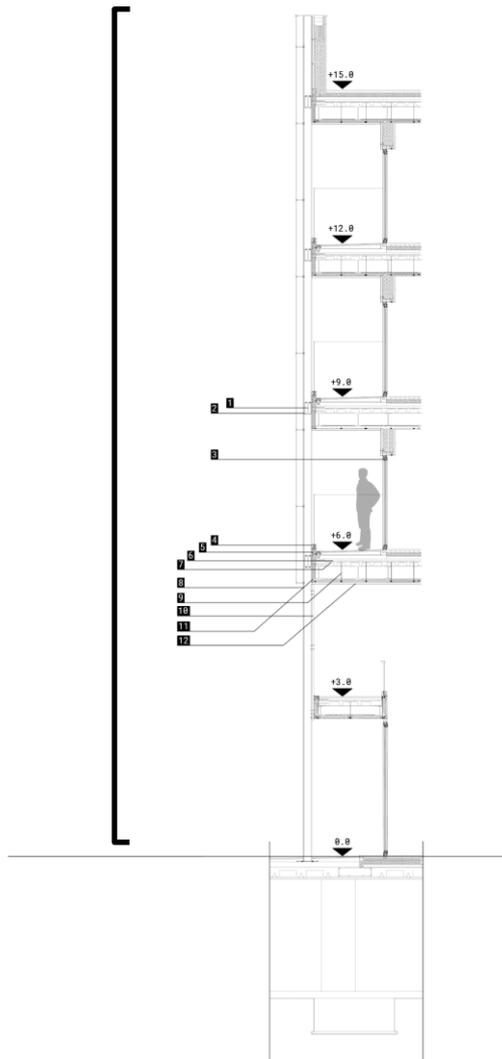


Detail A1



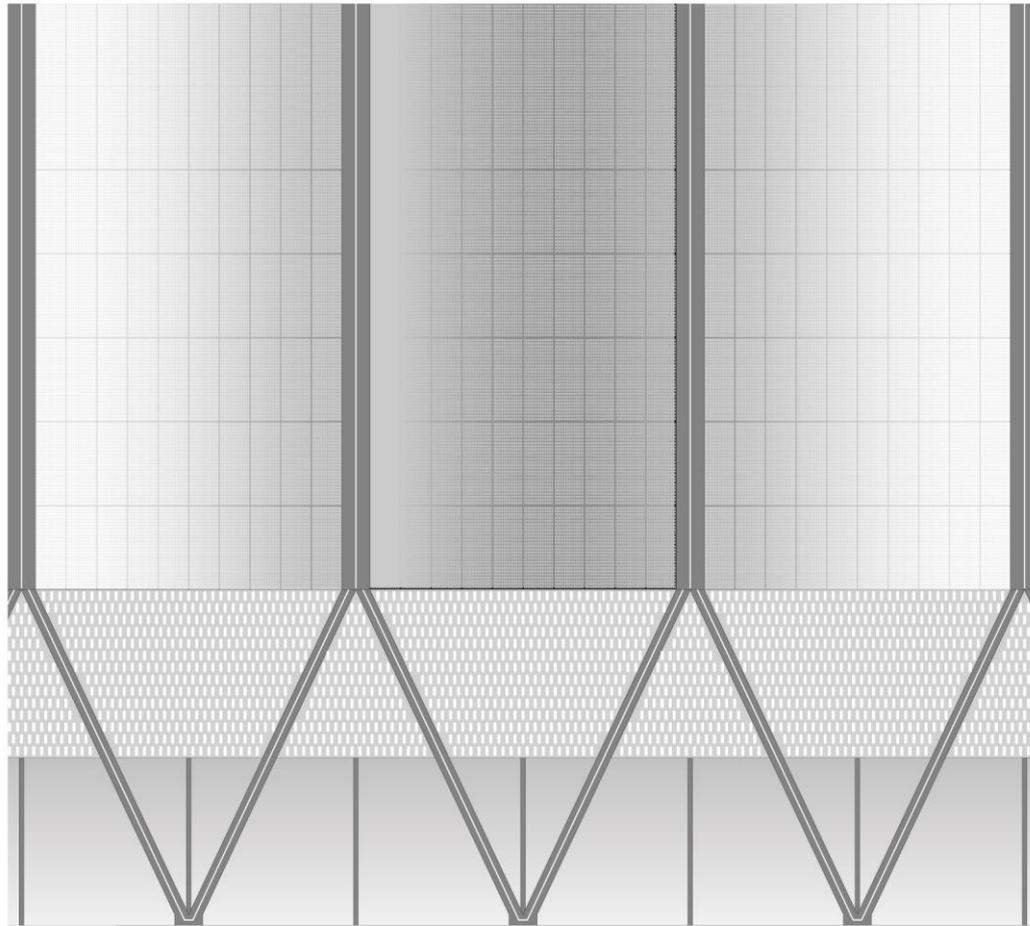
Detail A1



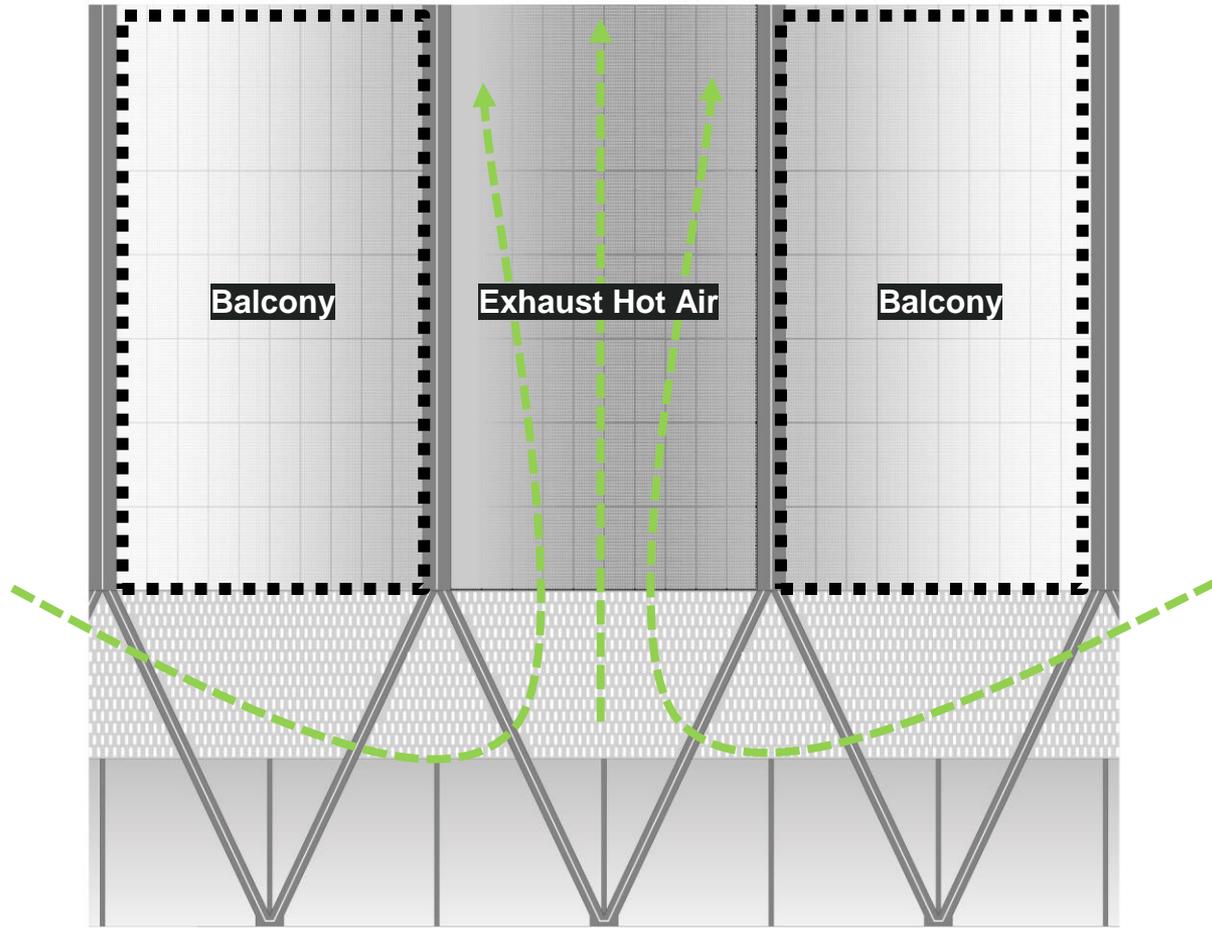


- 1** I Beam [HEA 240]
- 2** Steel Profile
- 3** Aluminum Mullion
- 4** Glass Railing
- 5** Insulation Rock Wool
- 6** Concrete Slab
- 7** Metal Decking
- 8** I Beam [IPE 180]
- 9** Ceiling Hanging
- 10** Perforated Steel Plate
- 11** U Profile
- 12** Ceiling Board Dekton

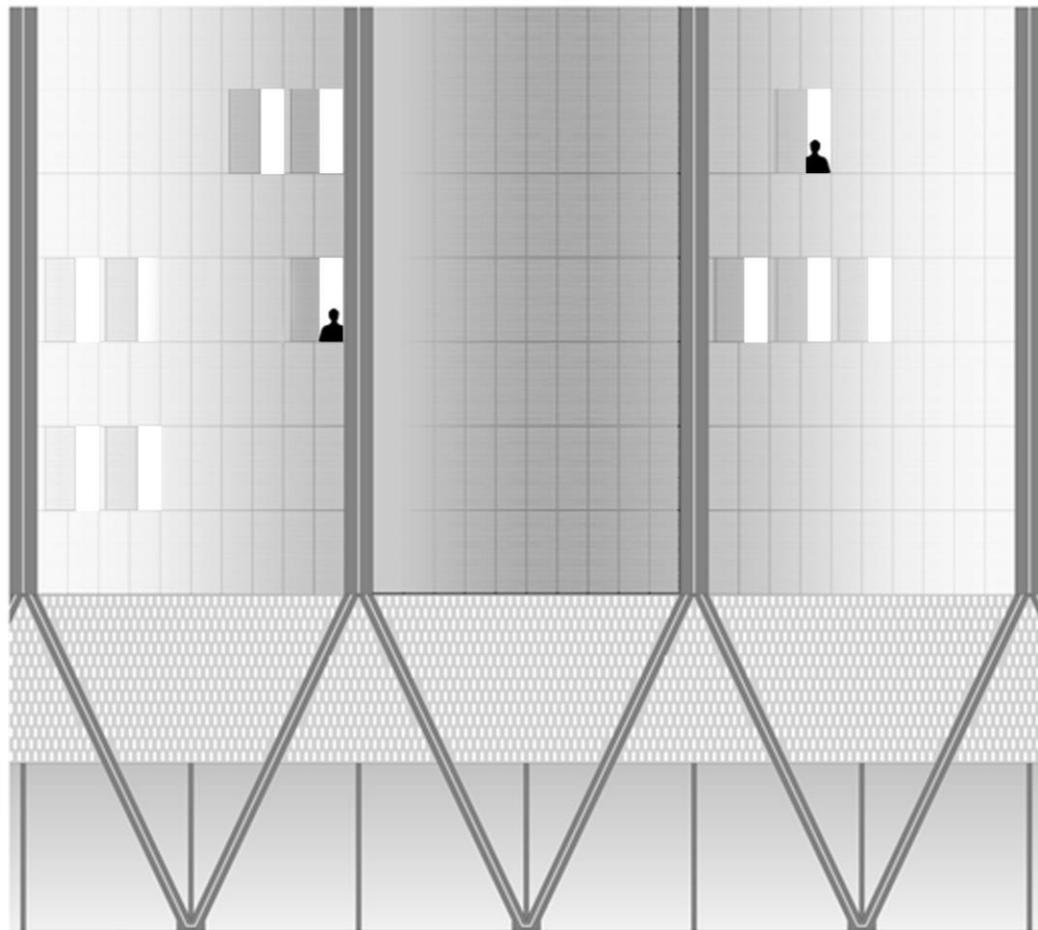
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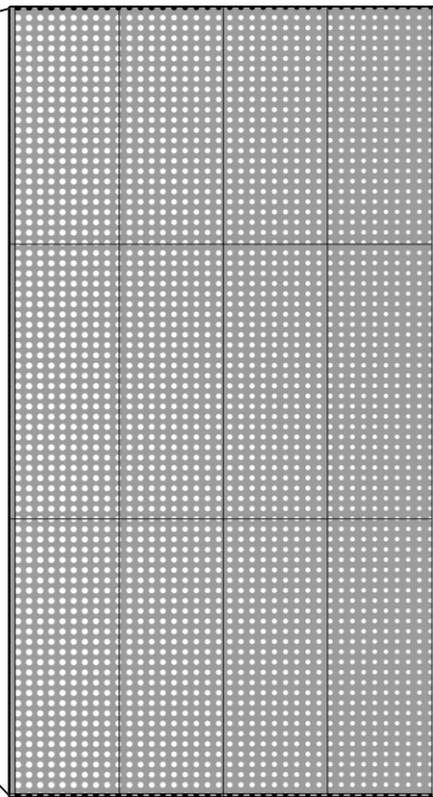
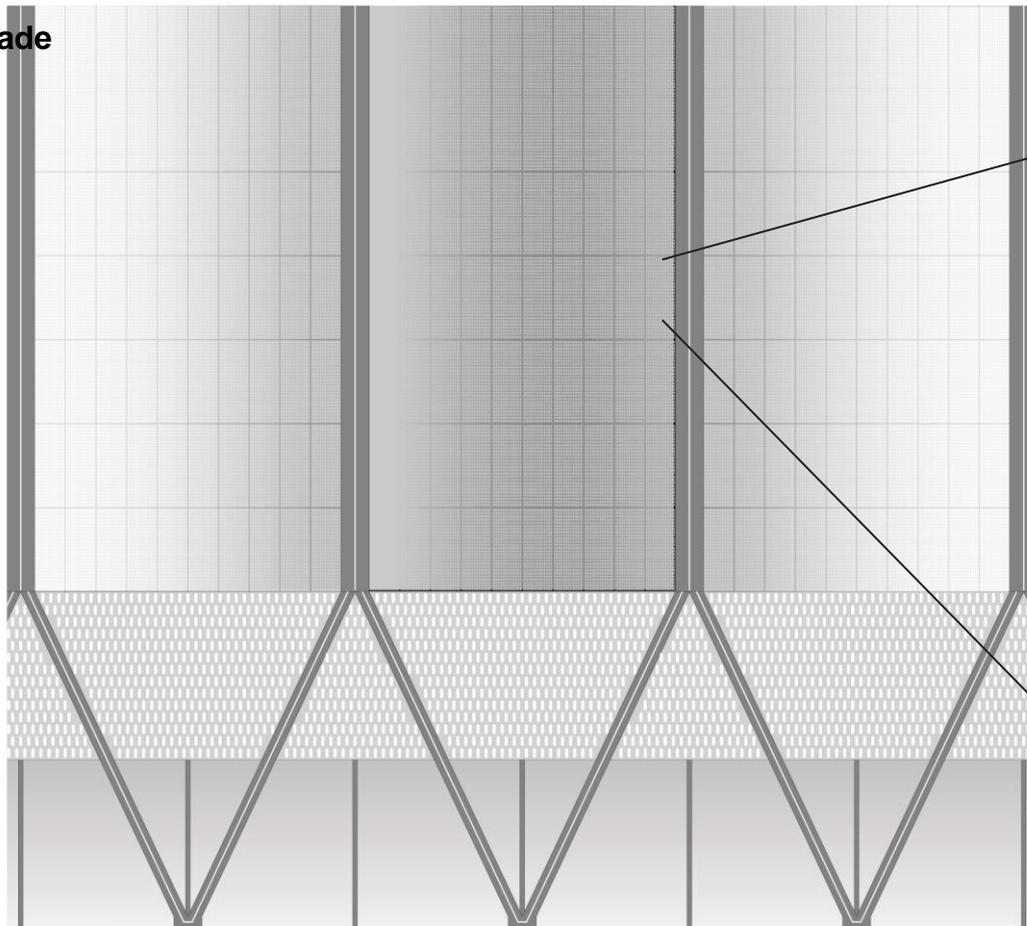
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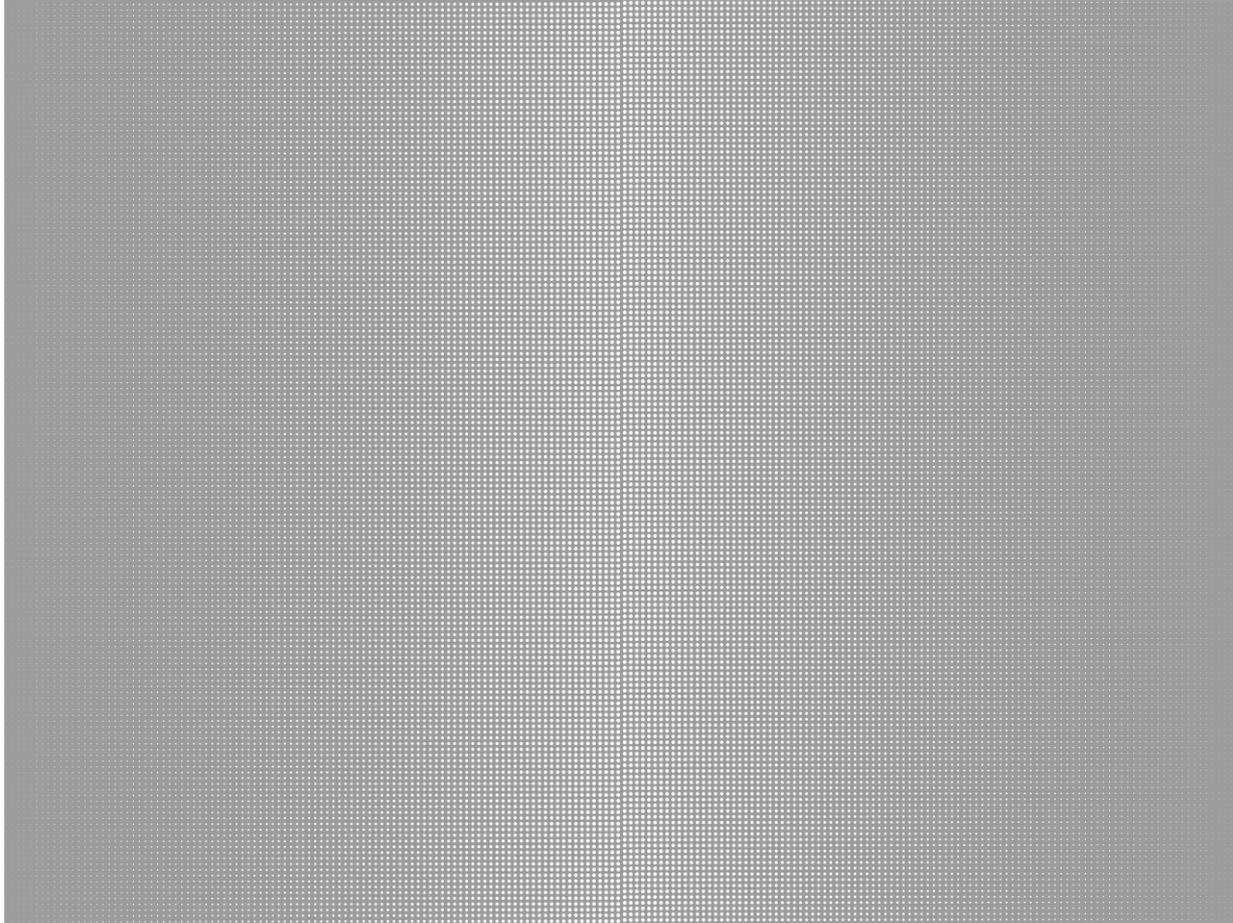
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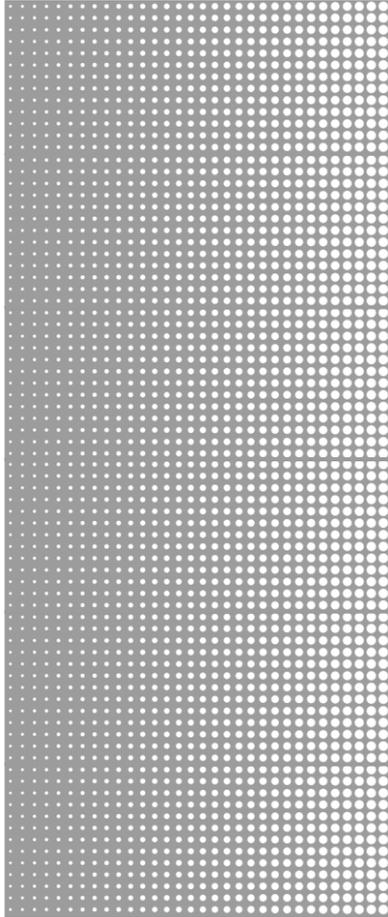
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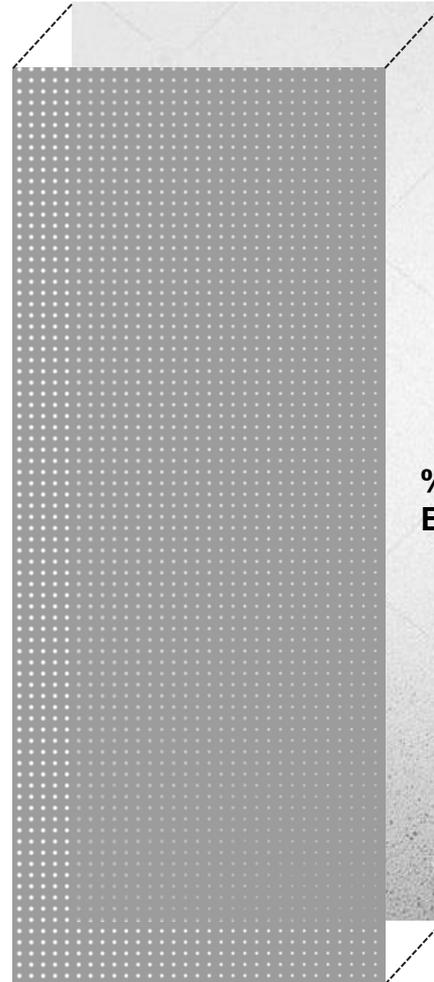
Panels



Panels



**%60 Permeability
Offices**

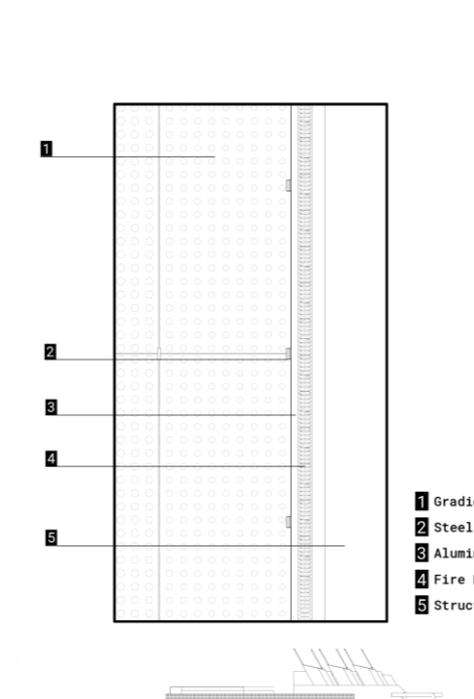


**%20 Permeability
Exhaust Air**

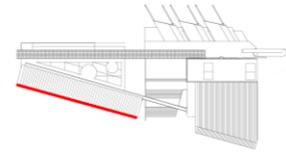
Detail A2



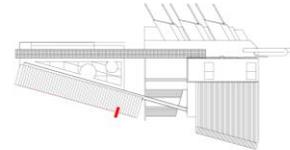
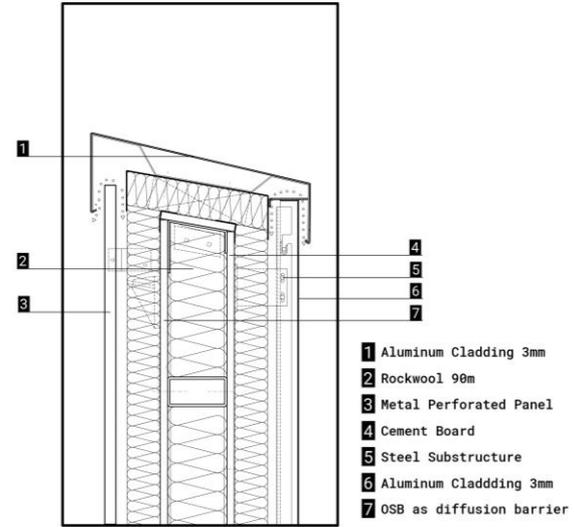
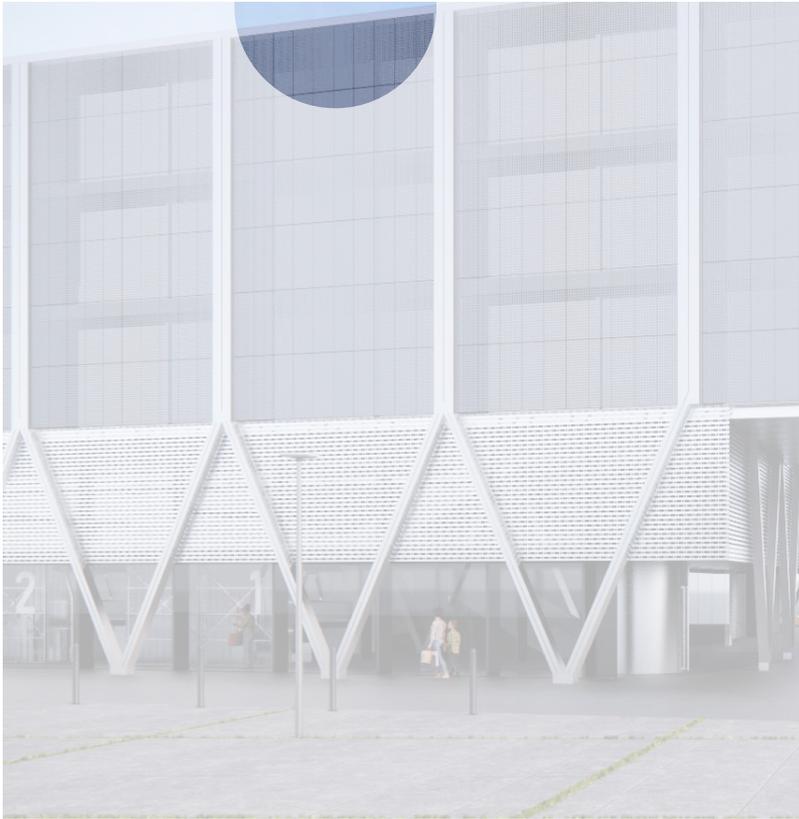
Detail A2



- 1** Gradient Perforated Steel Panels with PV Spray on
- 2** Steel Brackets
- 3** Aluminum Cladding 3mm
- 4** Fire Resistant Coating
- 5** Structural Steel



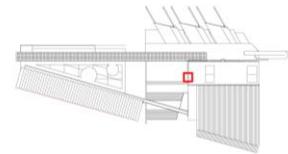
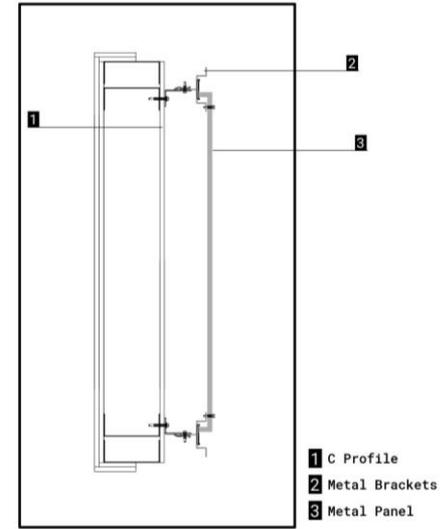
Detail A3



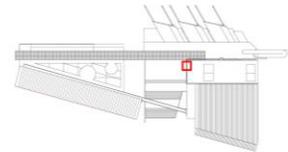
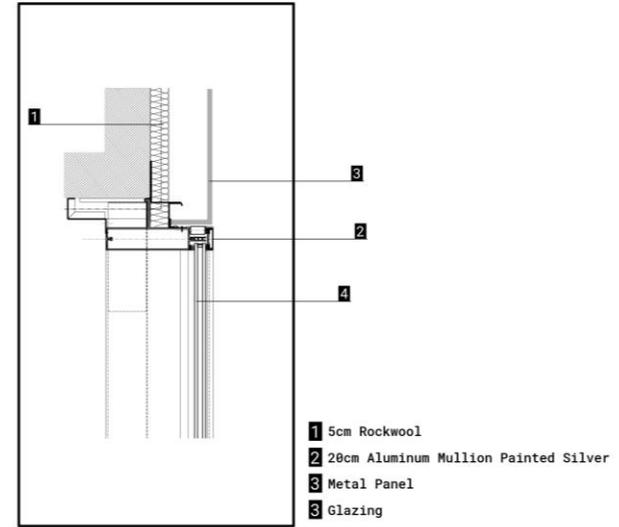
Detail A4



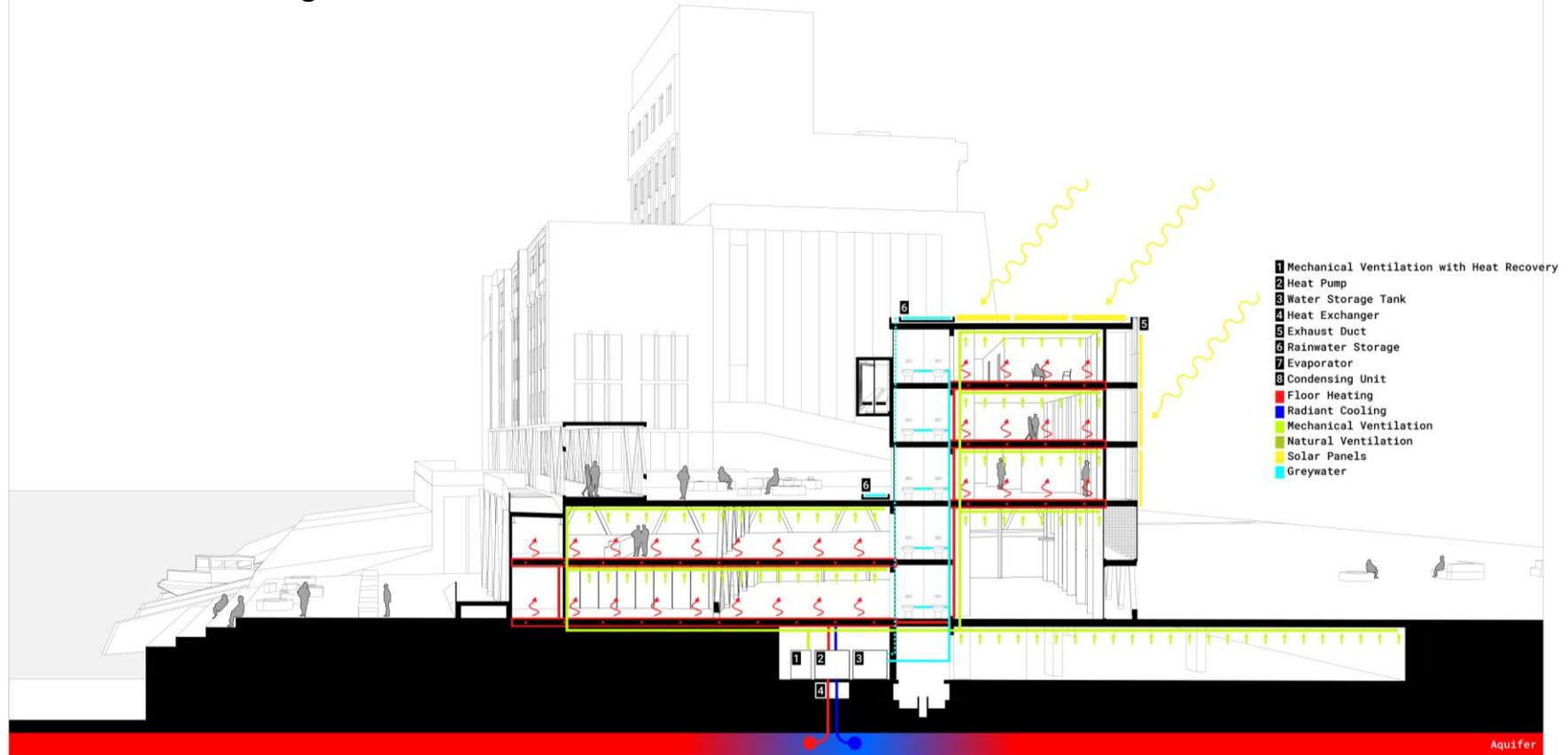
Detail A4



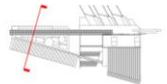
Detail A5



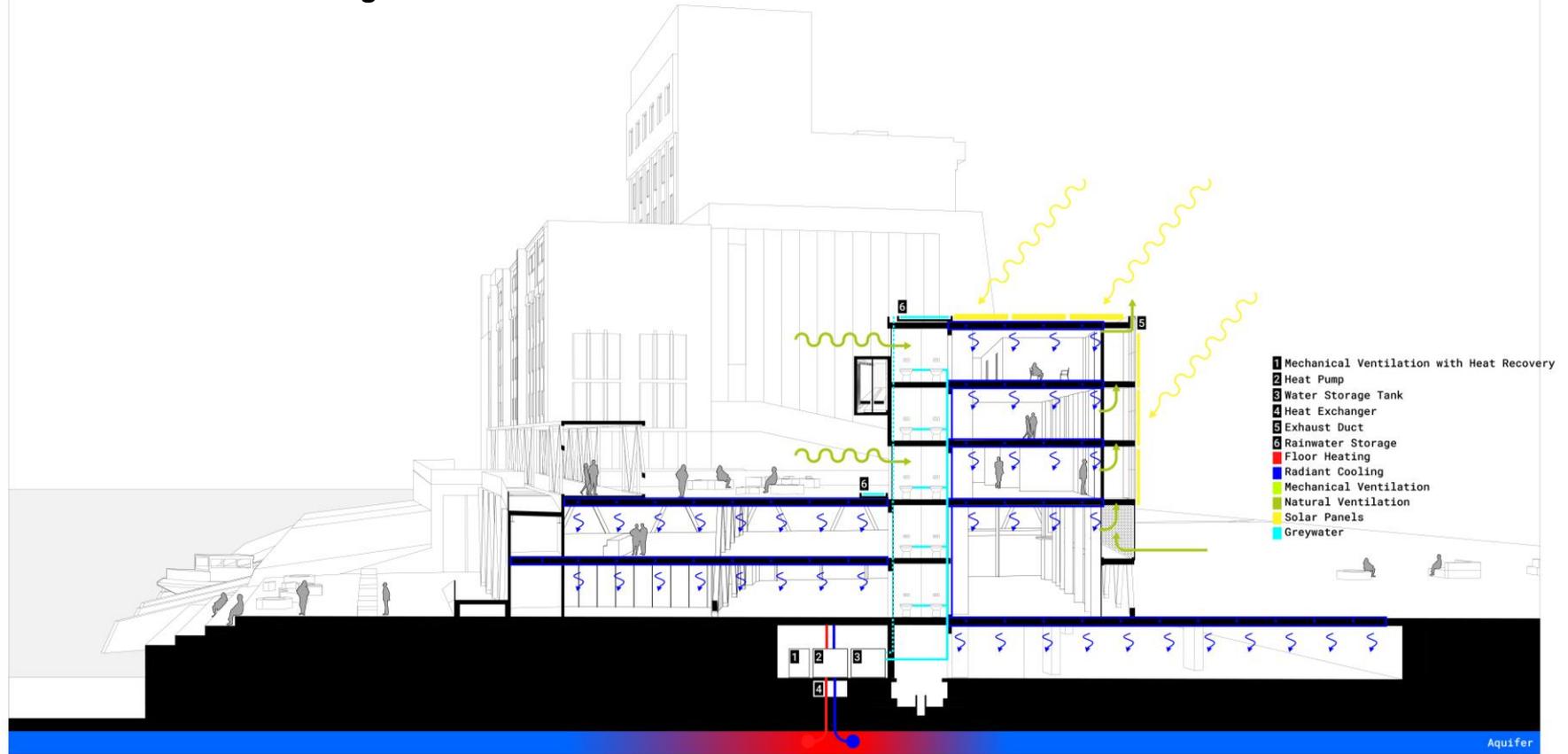
Winter - Floor Heating



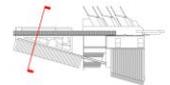
0 5 10 m



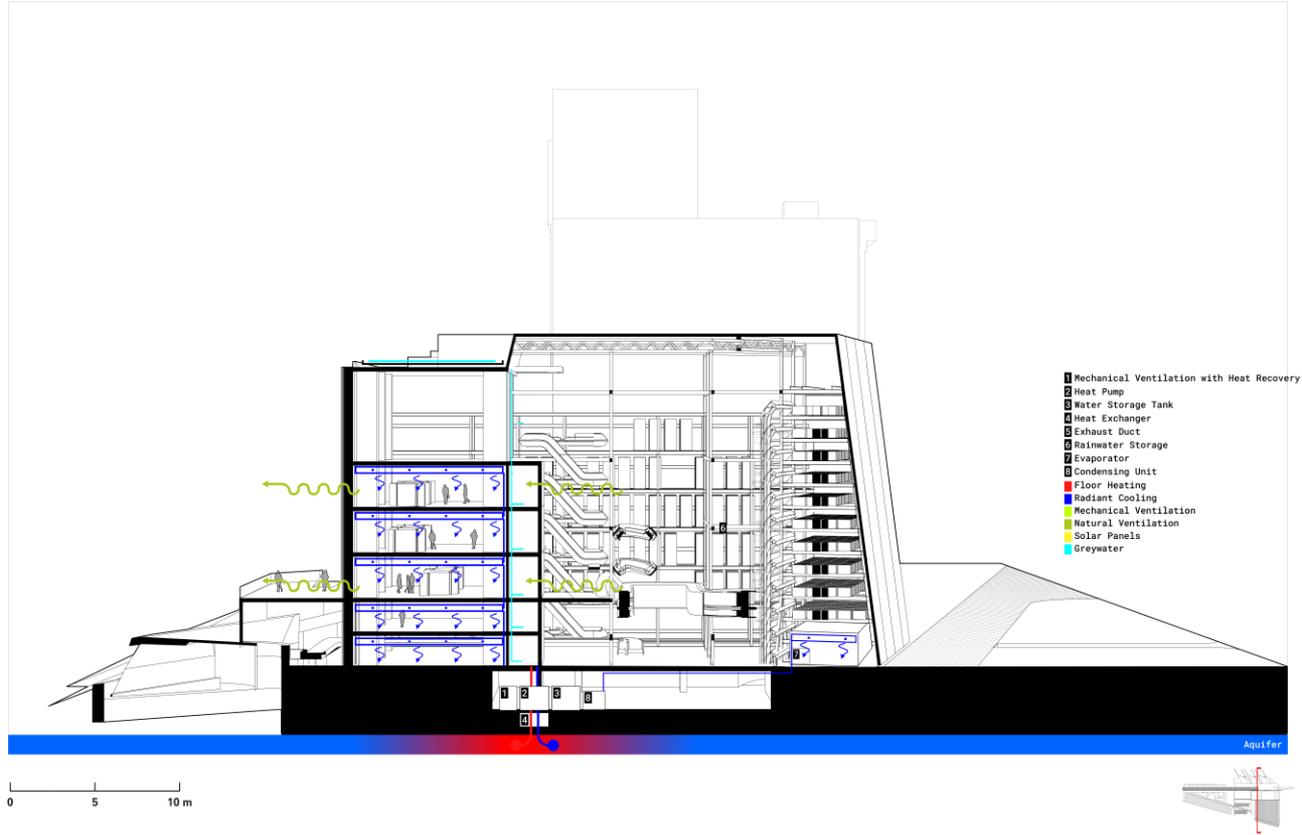
Summer - Radiant Cooling



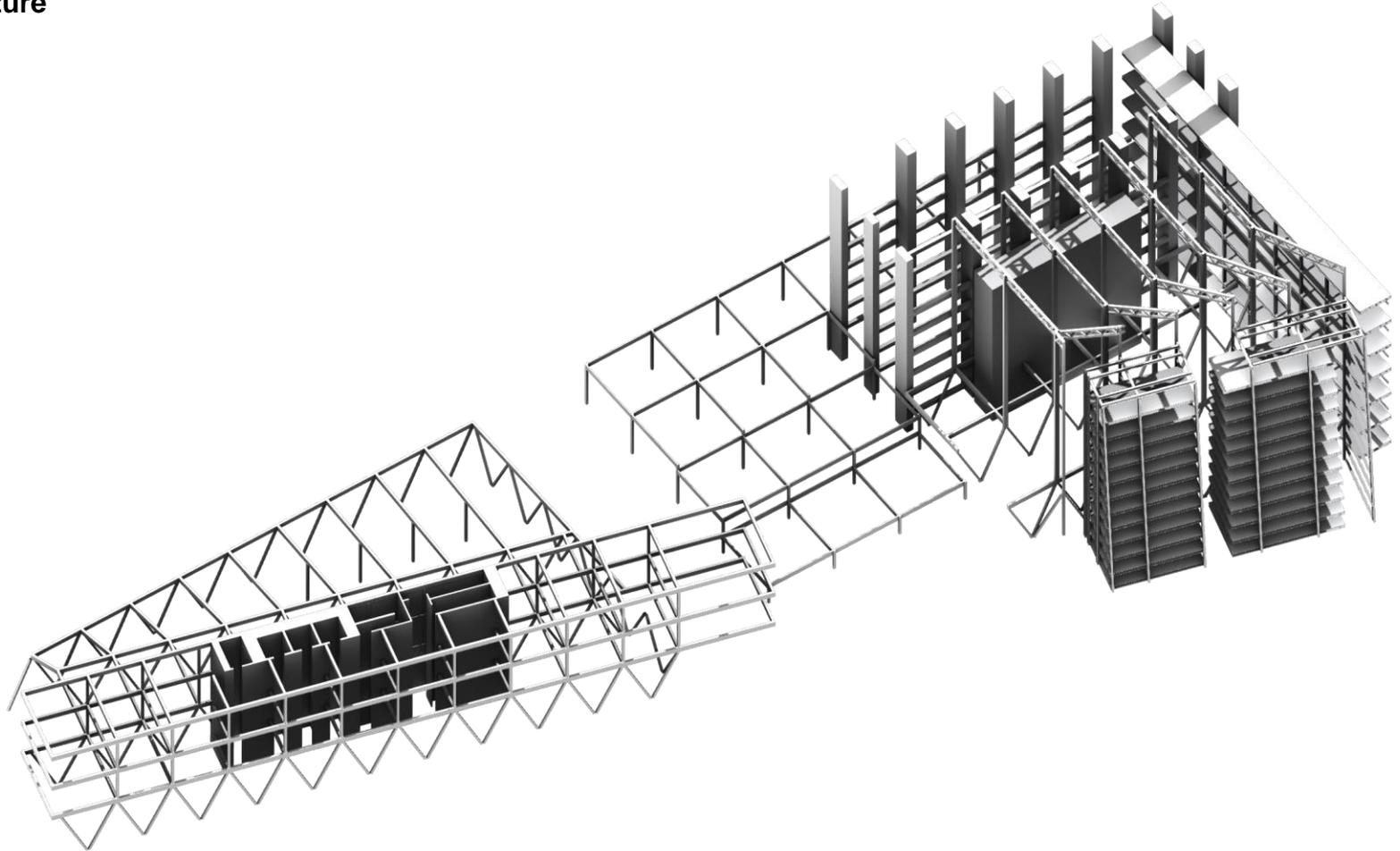
0 5 10 m



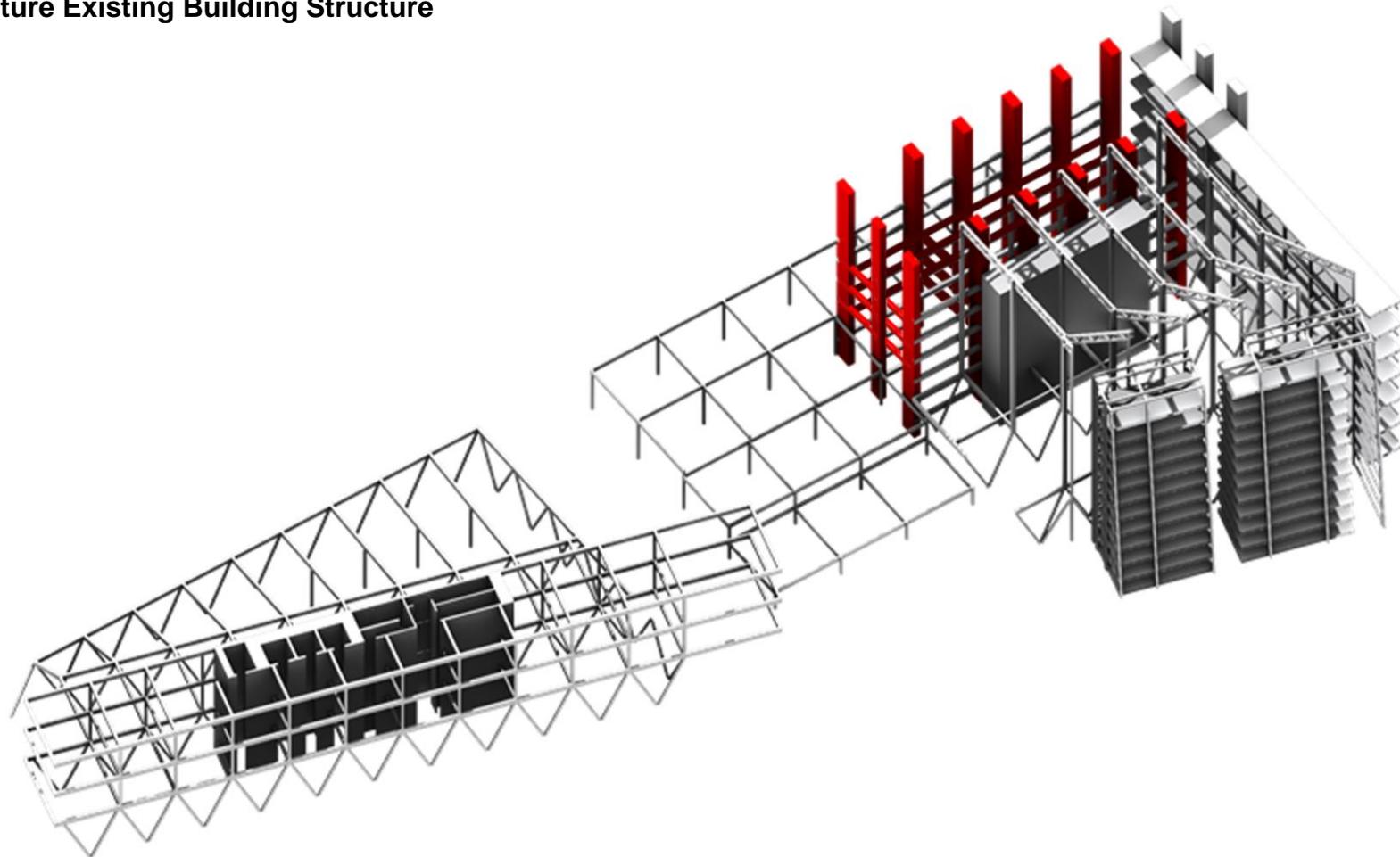
Summer – Cold Storage



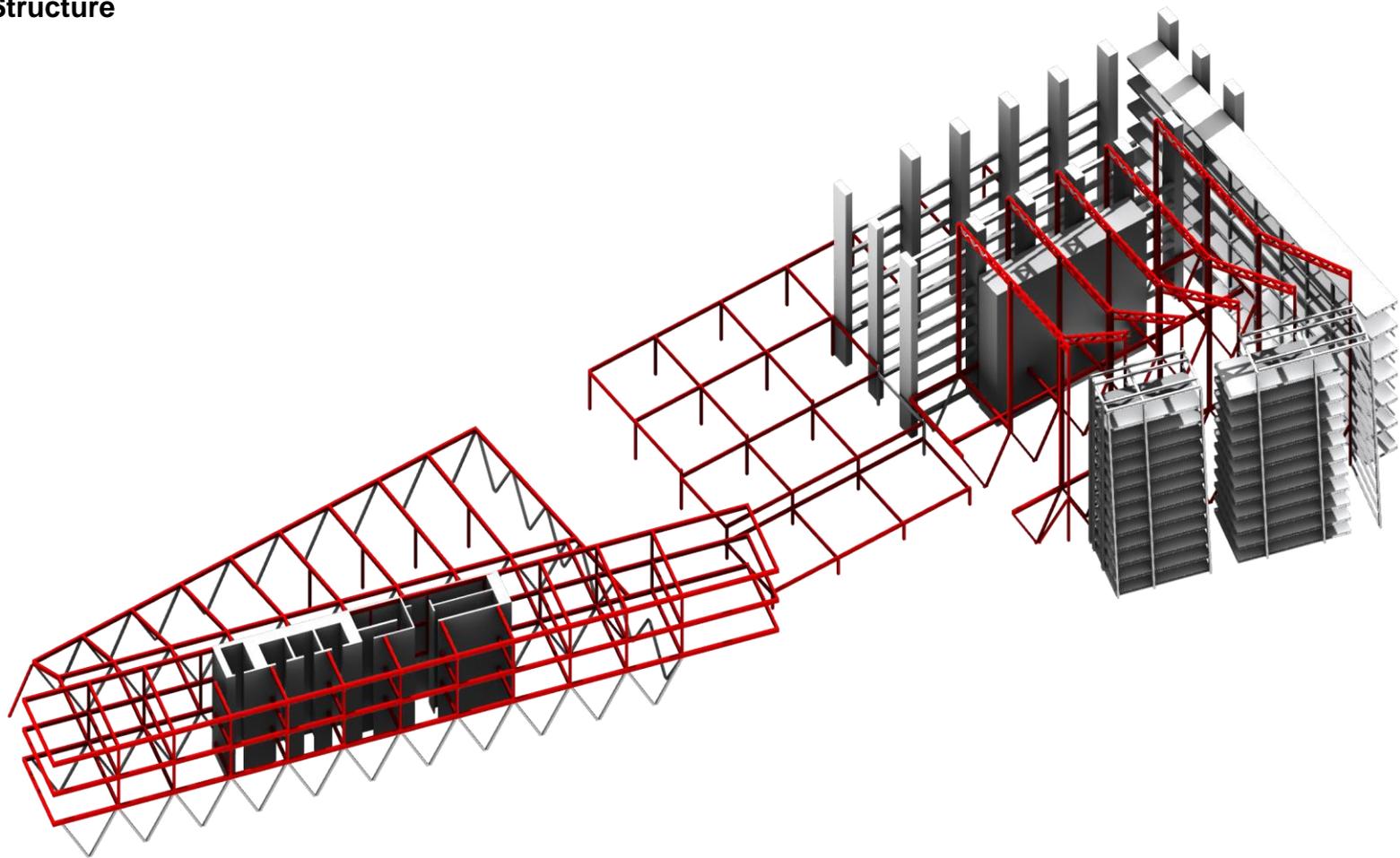
Structure



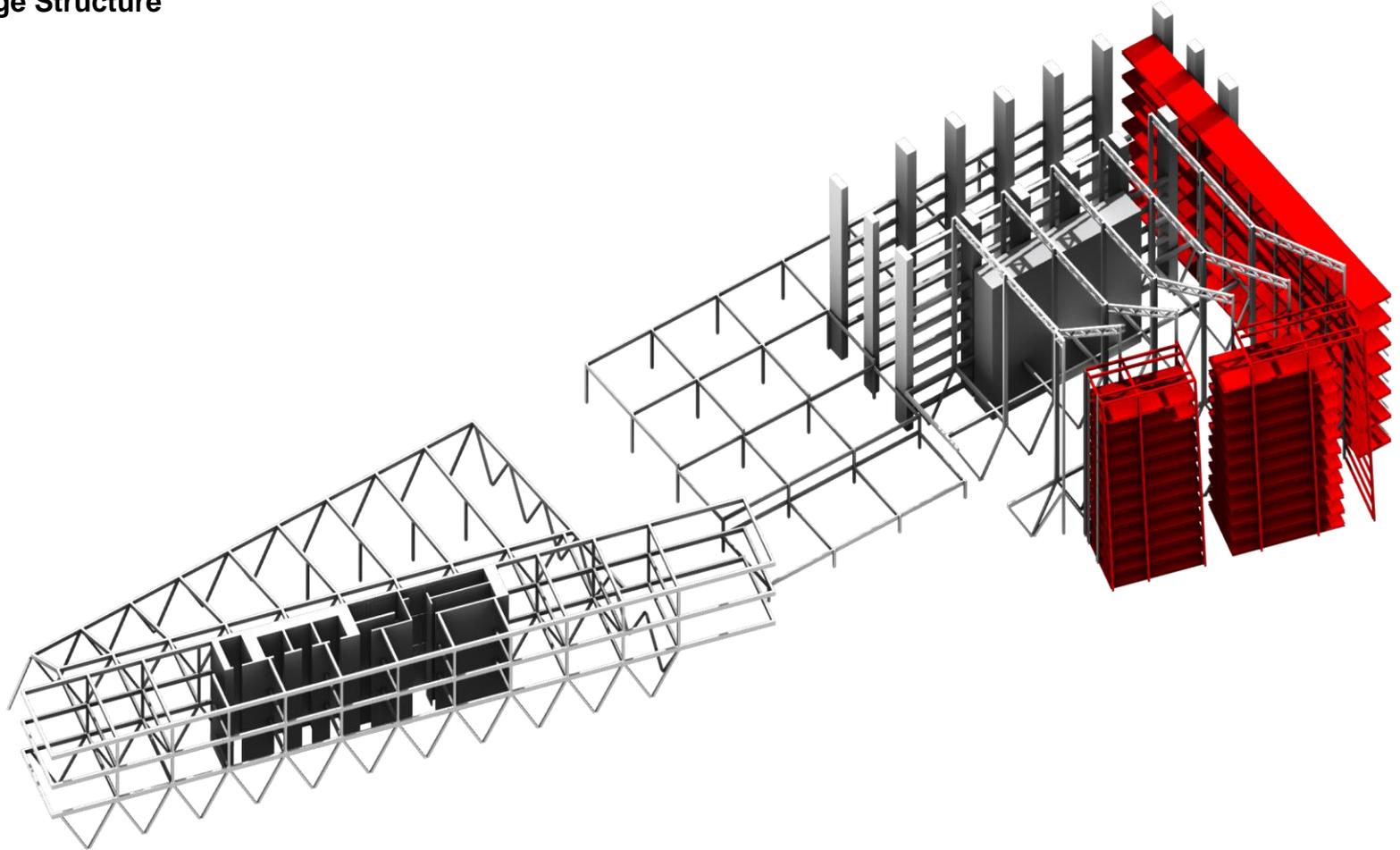
Structure Existing Building Structure



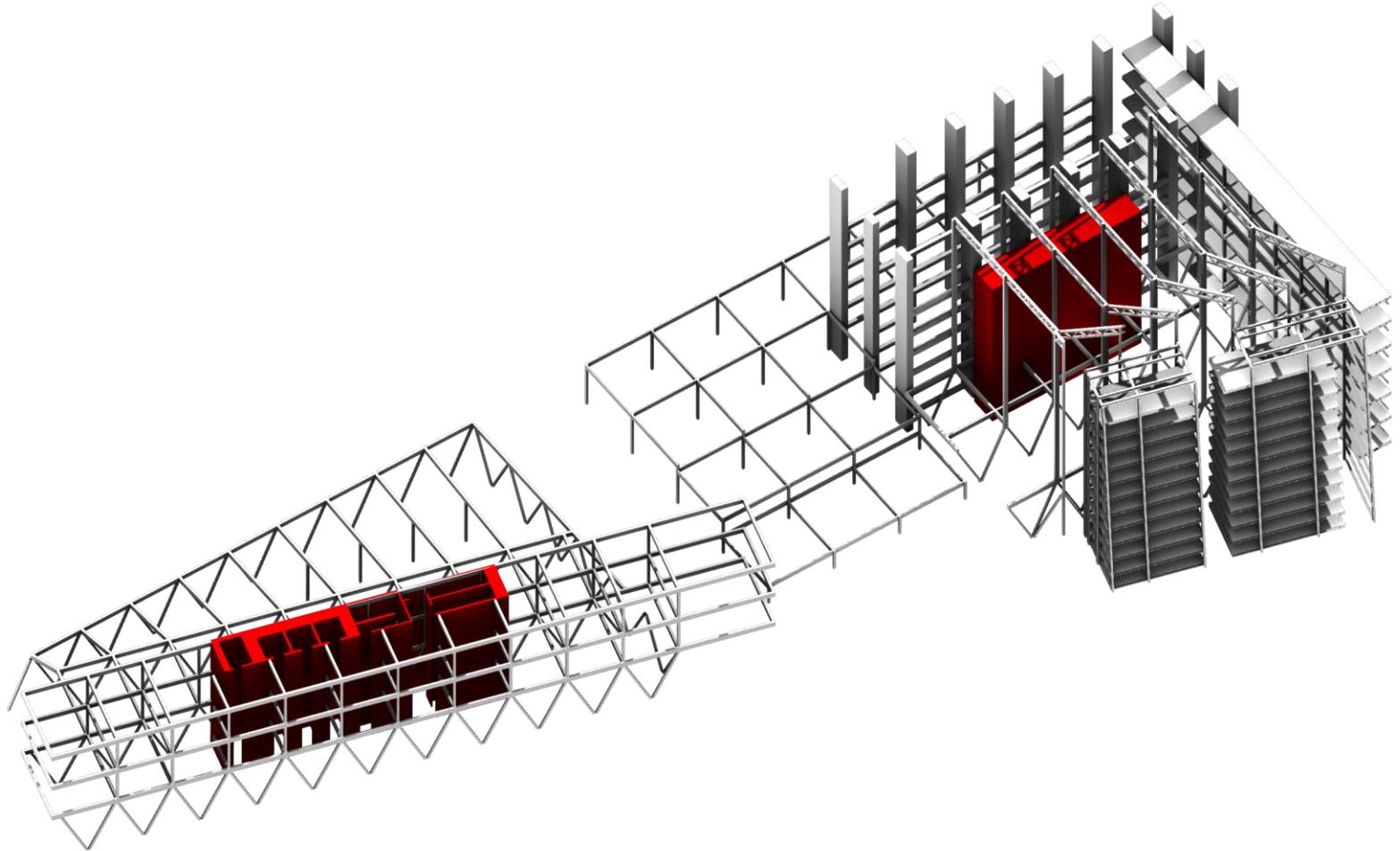
New Structure



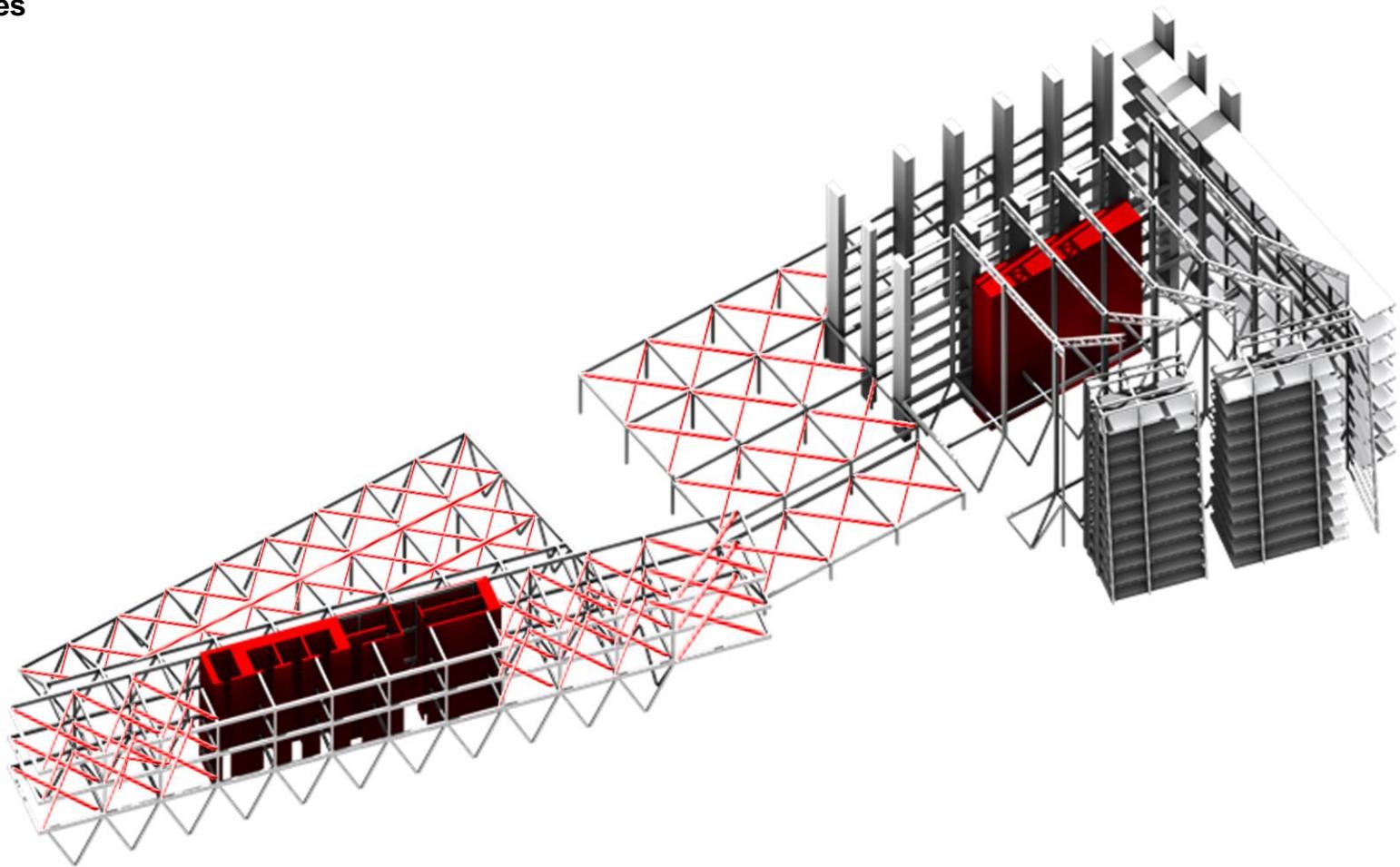
Storage Structure



Cores



X Braces



Reflection

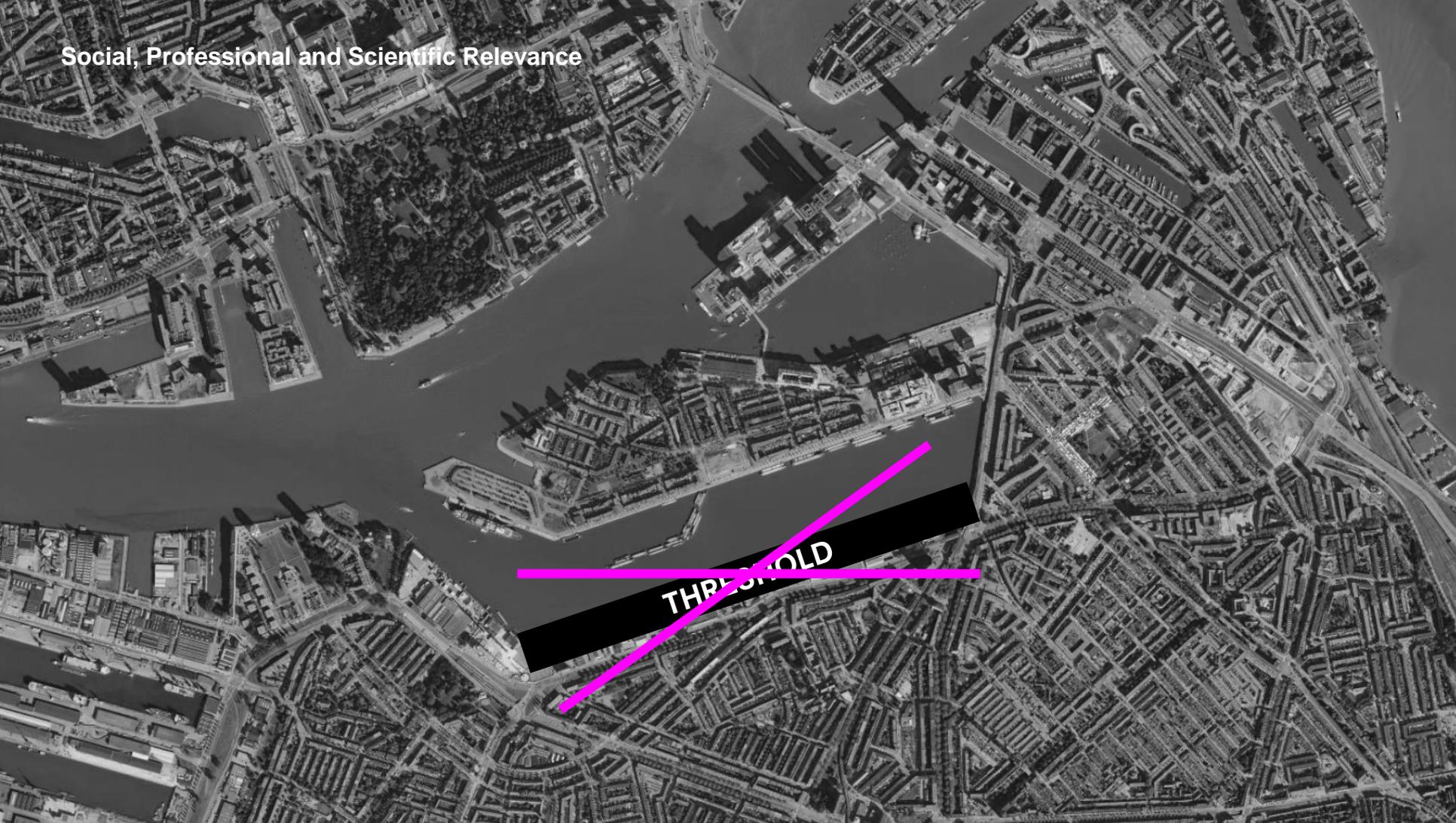
How can we revitalize obsolete waterfront areas to incorporate flows of inland shipping and public transportation to improve city logistics?

Social, Professional and Scientific Relevance

THRESHOLD

An aerial, grayscale photograph of a city, likely New York City, showing a dense grid of streets and buildings. A large body of water, possibly a river or harbor, runs through the center. A black diagonal bar with the word 'THRESHOLD' in white capital letters is overlaid on the lower right portion of the image, pointing towards the center.

Social, Professional and Scientific Relevance

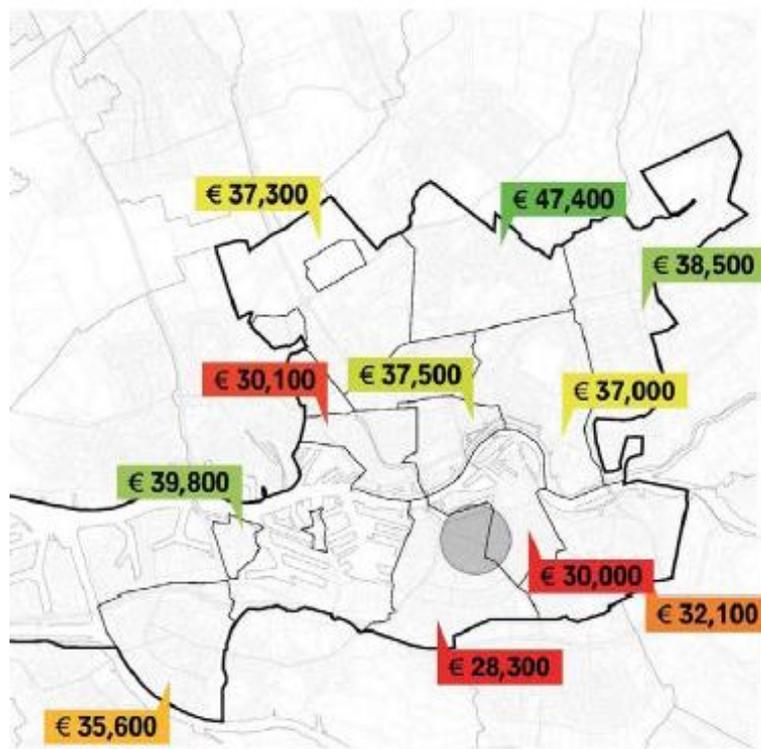


THRESHOLD

Social, Professional and Scientific Relevance



Social, Professional and Scientific Relevance

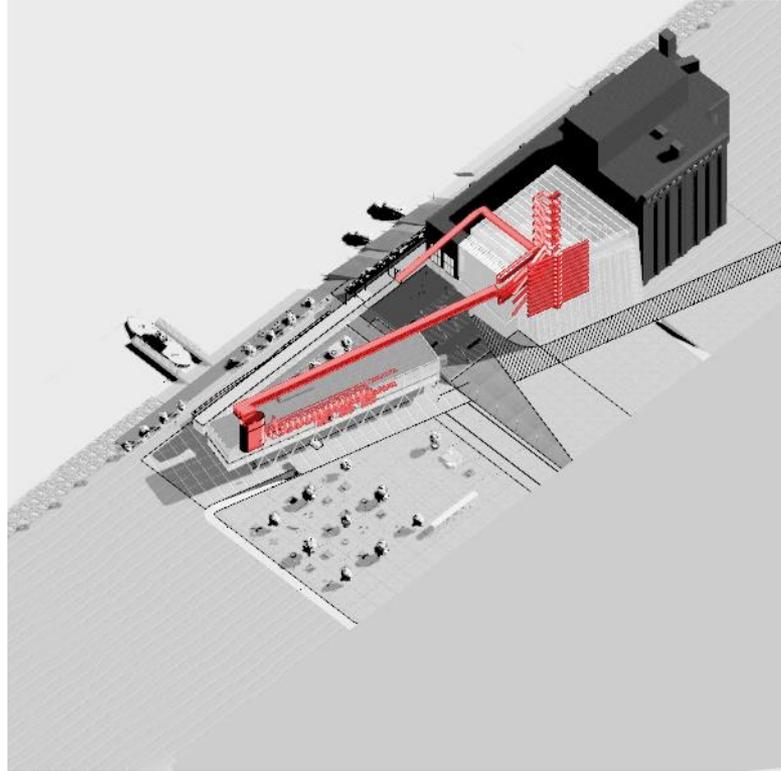


Average Household Income

Social, Professional and Scientific Relevance



Social, Professional and Scientific Relevance



A strategy that can be multiplied..

ROTTERDAM

HAMBURG

ISTANBUL

TORONTO

ANTWERP

LONDON

A strategy that can be multiplied..





Thank you!

