#### **Reformation of Social Structure**

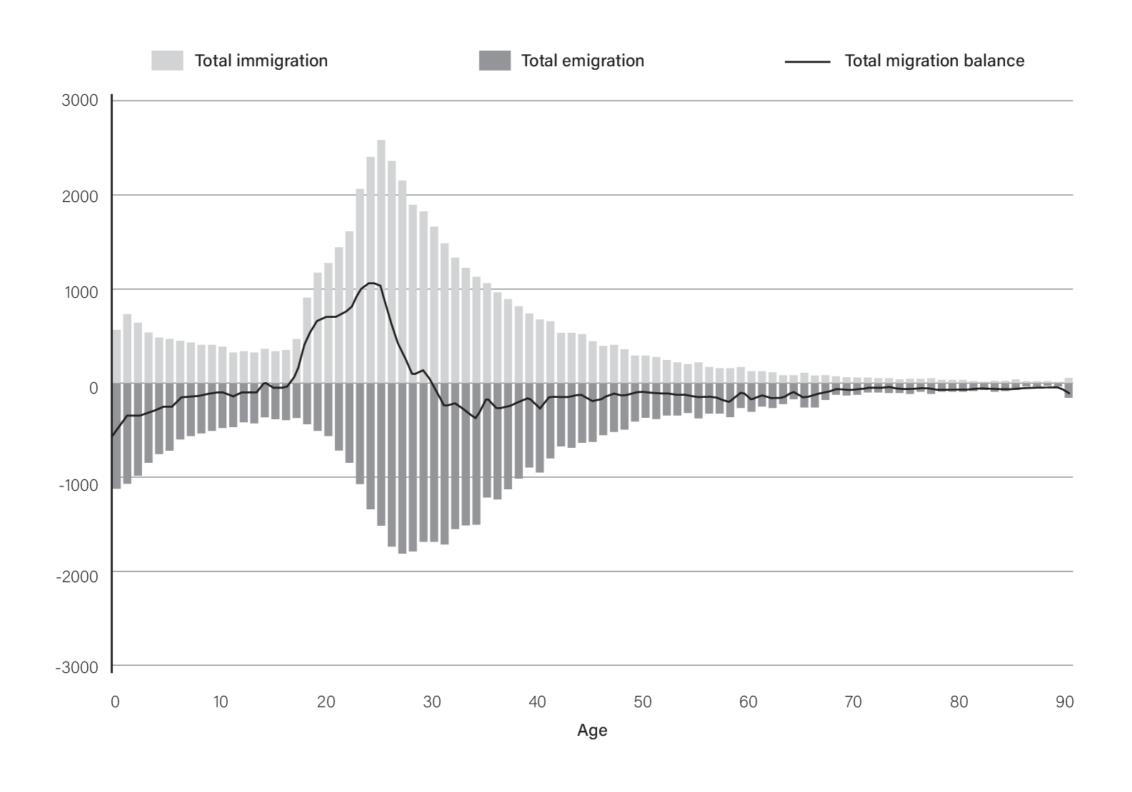
Concurrent Occupancy &
Working Hierarchy Reconstruction

Under the issue of suburbanization of young generation and community segregation, how can the National Bank of Belgium play a social role of reforming the current social structure and eliminating the boundaries between communities while benefitting from the renovation itself?

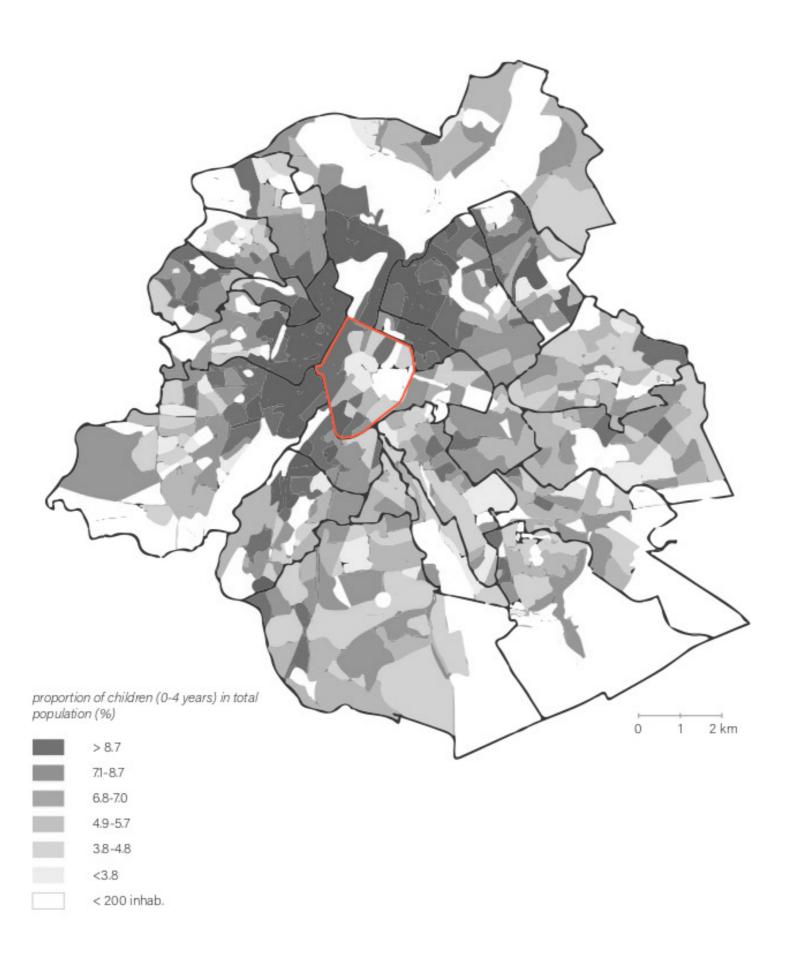
- What are the social relations between the bank and the public, also within the bank?
- What kind of additional programs can be introduced in the renovation so as to turn the bank into a social plinth?
- How can the spatial relations of the bank be redesigned in order to reform the spatial behaviour and the boundaries between individuals?



## **Demographics | International Youth Migartion**



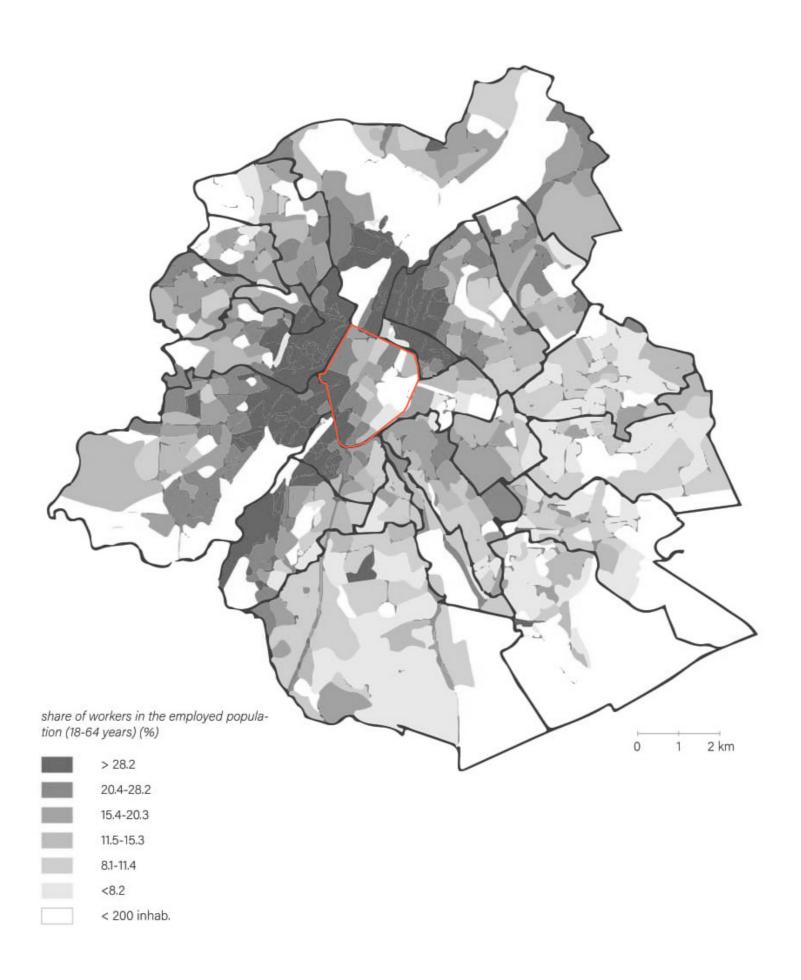
## **Demographics | Suburbanization of Youth**



Share of Children (0-4 years)

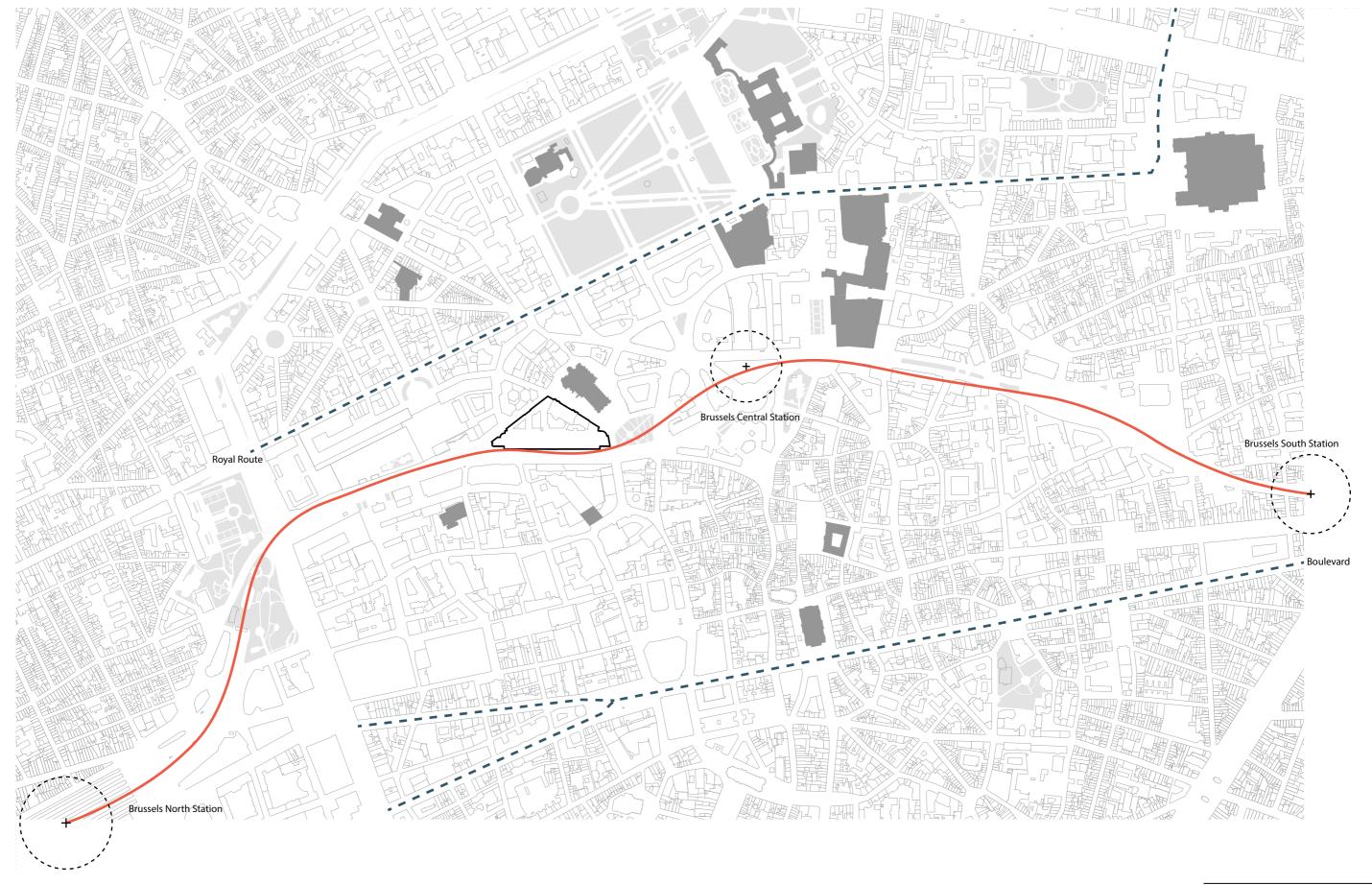
Not-to-scale 2001 Brussels, Belgium

## **Demographics | Community Segregation**



Not-to-scale 2001 Brussels, Belgium

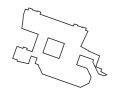
# **Urban Context | Social Division**

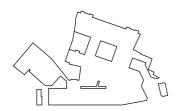


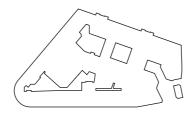
#### Site Analysis

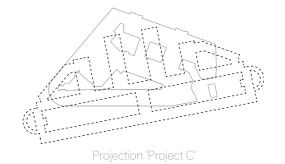
1:5000 National Bank of Belgium Brussels, Belgium

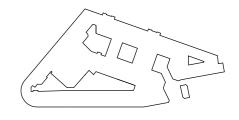
## **History | Bank Enclosure**











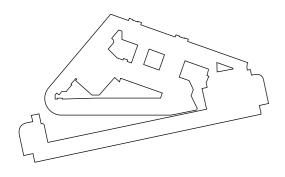
1860-1874

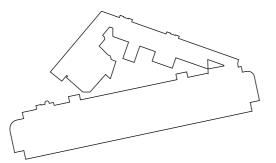
1871-1878

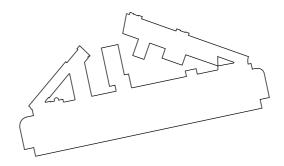
1900-1908

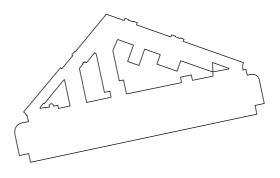
(initial plan Van Goethem)
1948

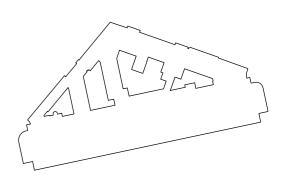
1948-1949











1949-1951

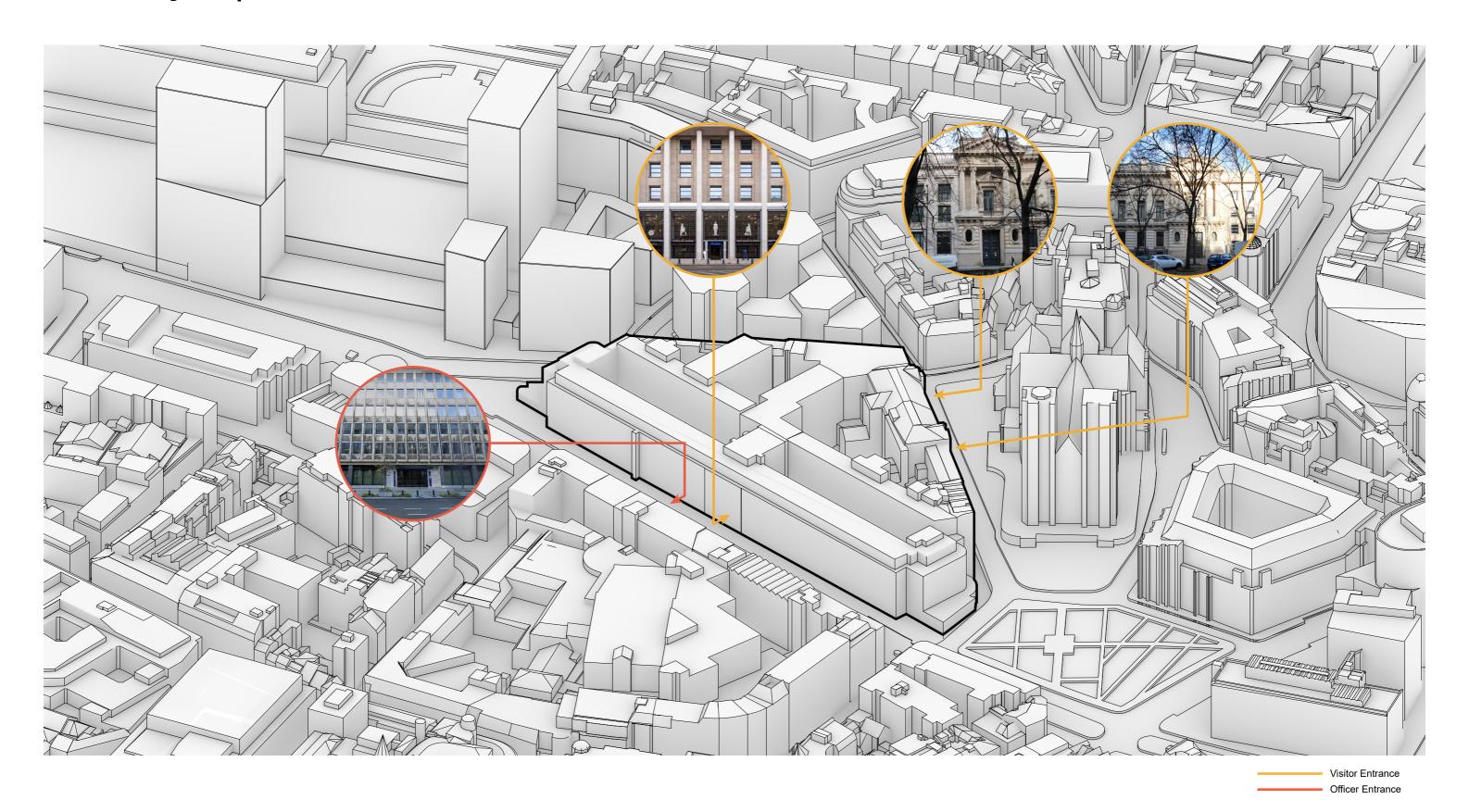
1952-1953

1954

1965

2021

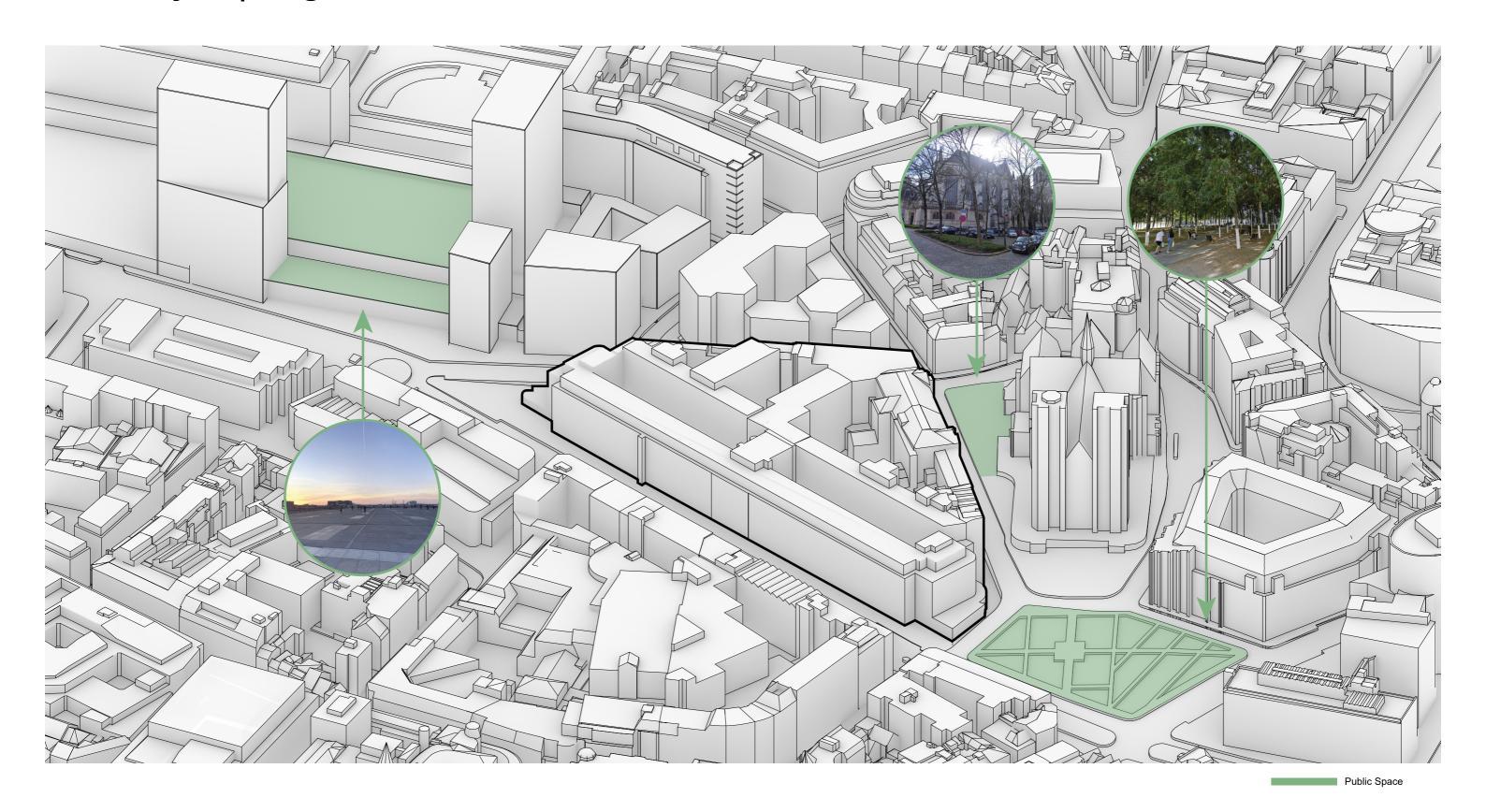
## **Site Analysis | Lack of Access**



#### Accessibility Map

1:1500 National Bank of Belgium Brussels, Belgium

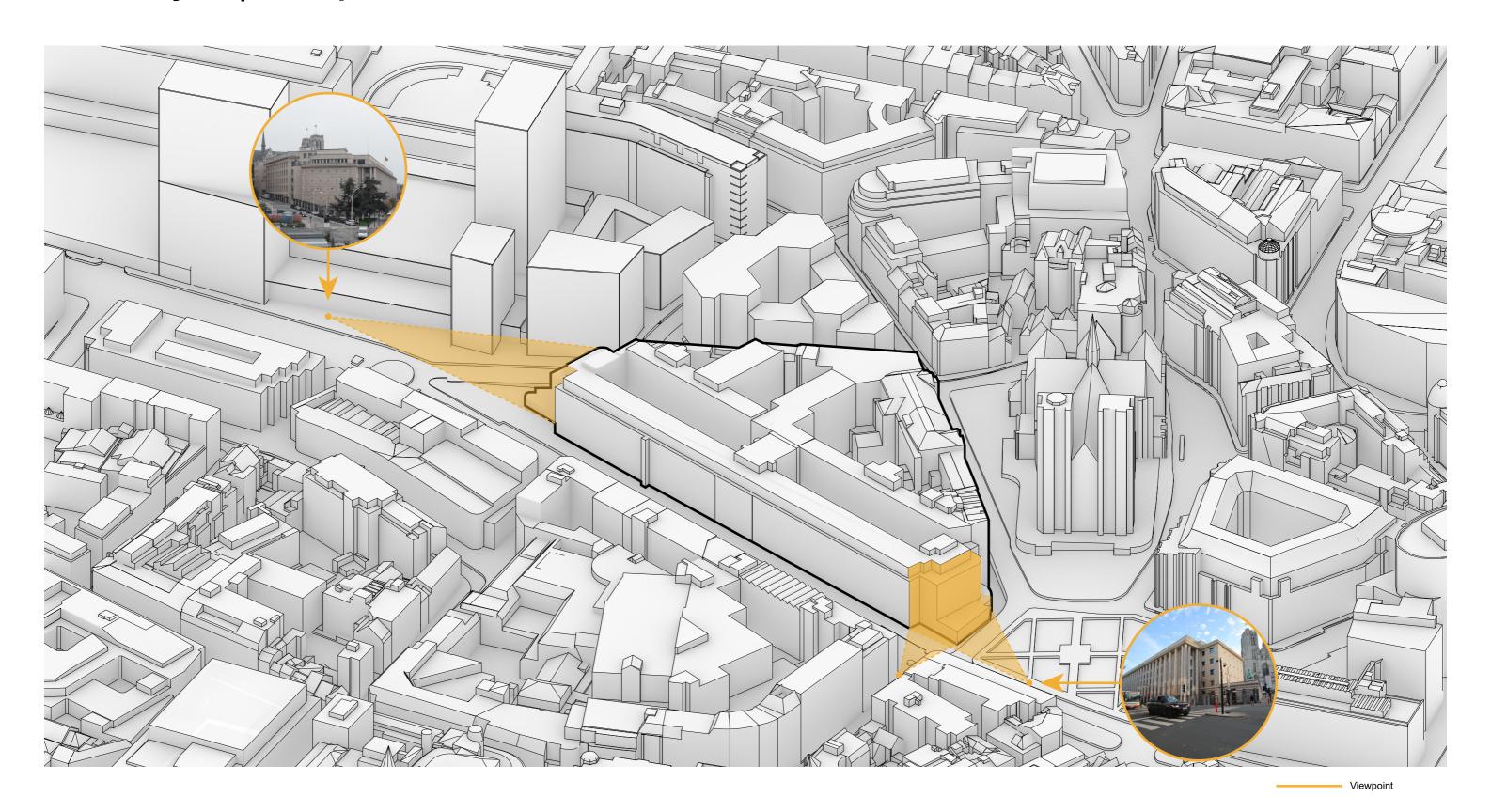
## **Site Analysis | Neighbourhood Connection**



Public Space Map

1:1500 National Bank of Belgium Brussels, Belgium

## **Site Analysis | Perception of Access**



#### Visibility Map

1:1500 National Bank of Belgium Brussels, Belgium

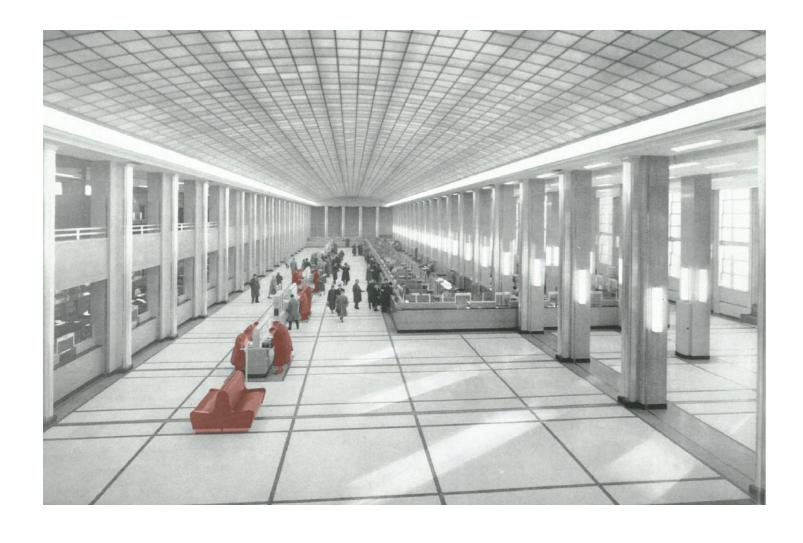
# Site Analysis | Perception of Access



# Site Analysis | Perception of Access

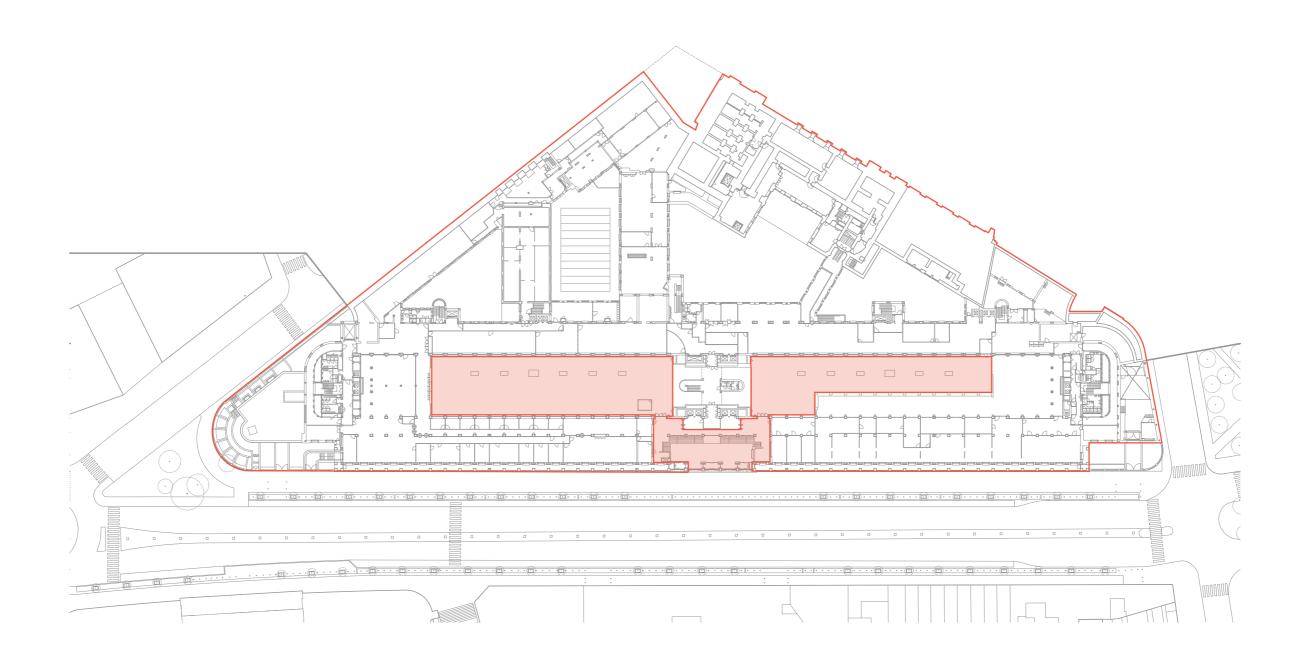


# **Distribution In & Through Space | Explicit Boundary**





## **Interior Analysis | Explicit Boundary**



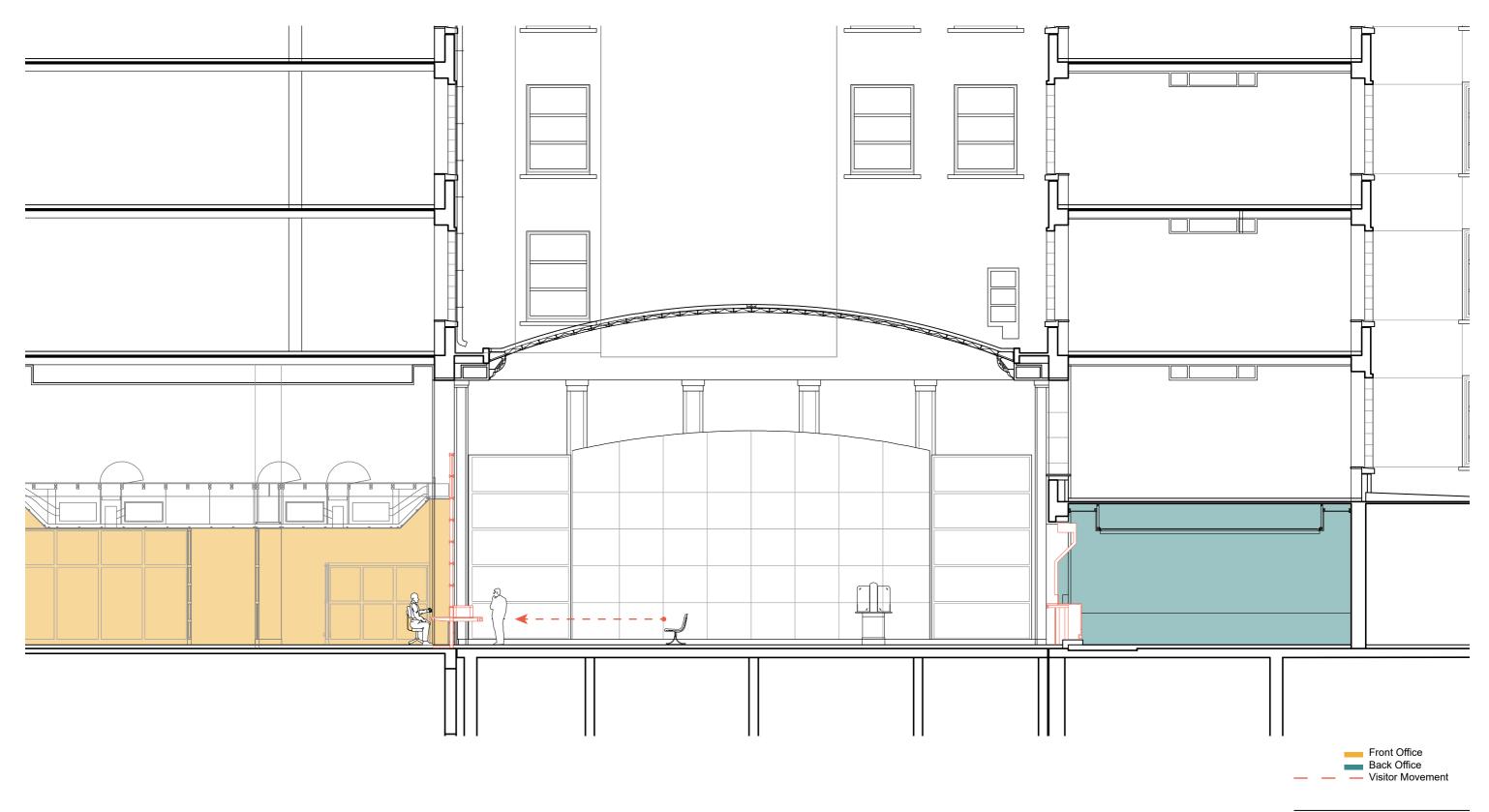
Visitor Accessible Area

Boundary Line

#### **Boundary Map**

1:1000 National Bank of Belgium Brussels, Belgium

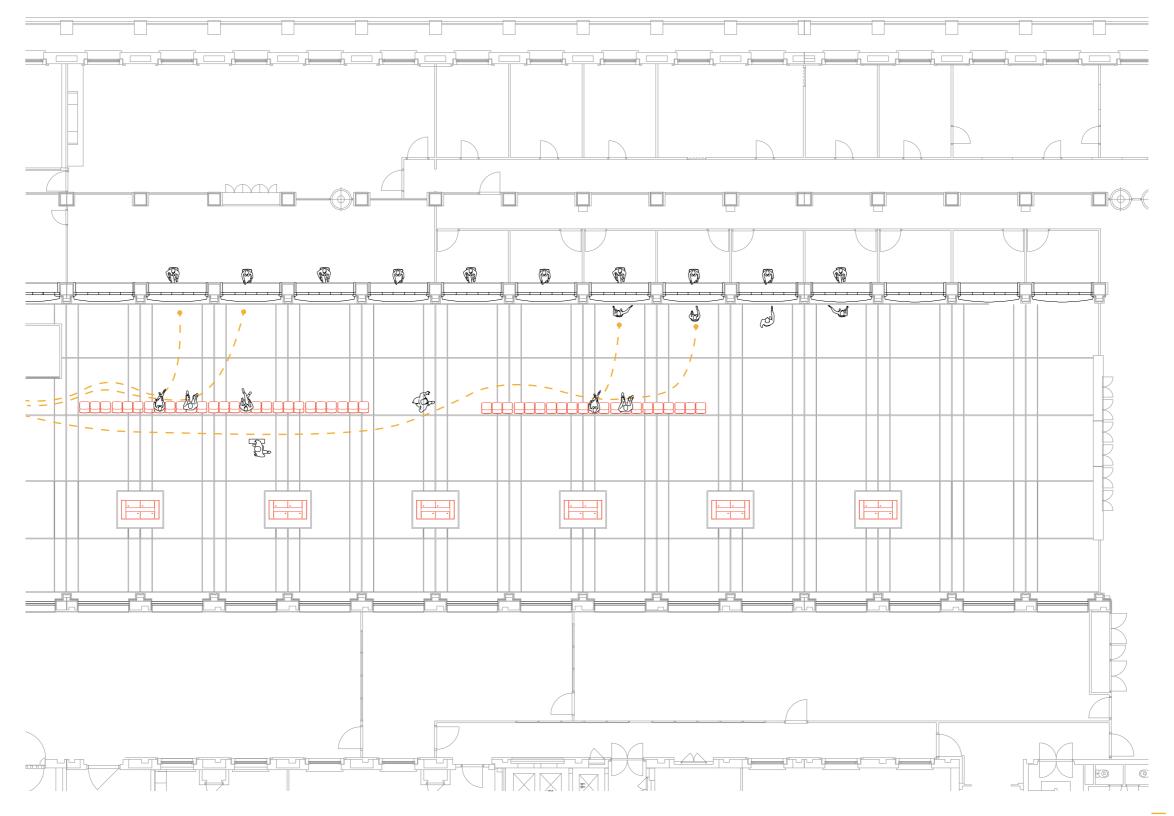
## **Distribution In & Through Space | Explicit Boundary**



#### Section

Ground Floor / 1:100 National Bank of Belgium Brussels, Belgium

#### **Distribution In & Through Space | Explicit Boundary**

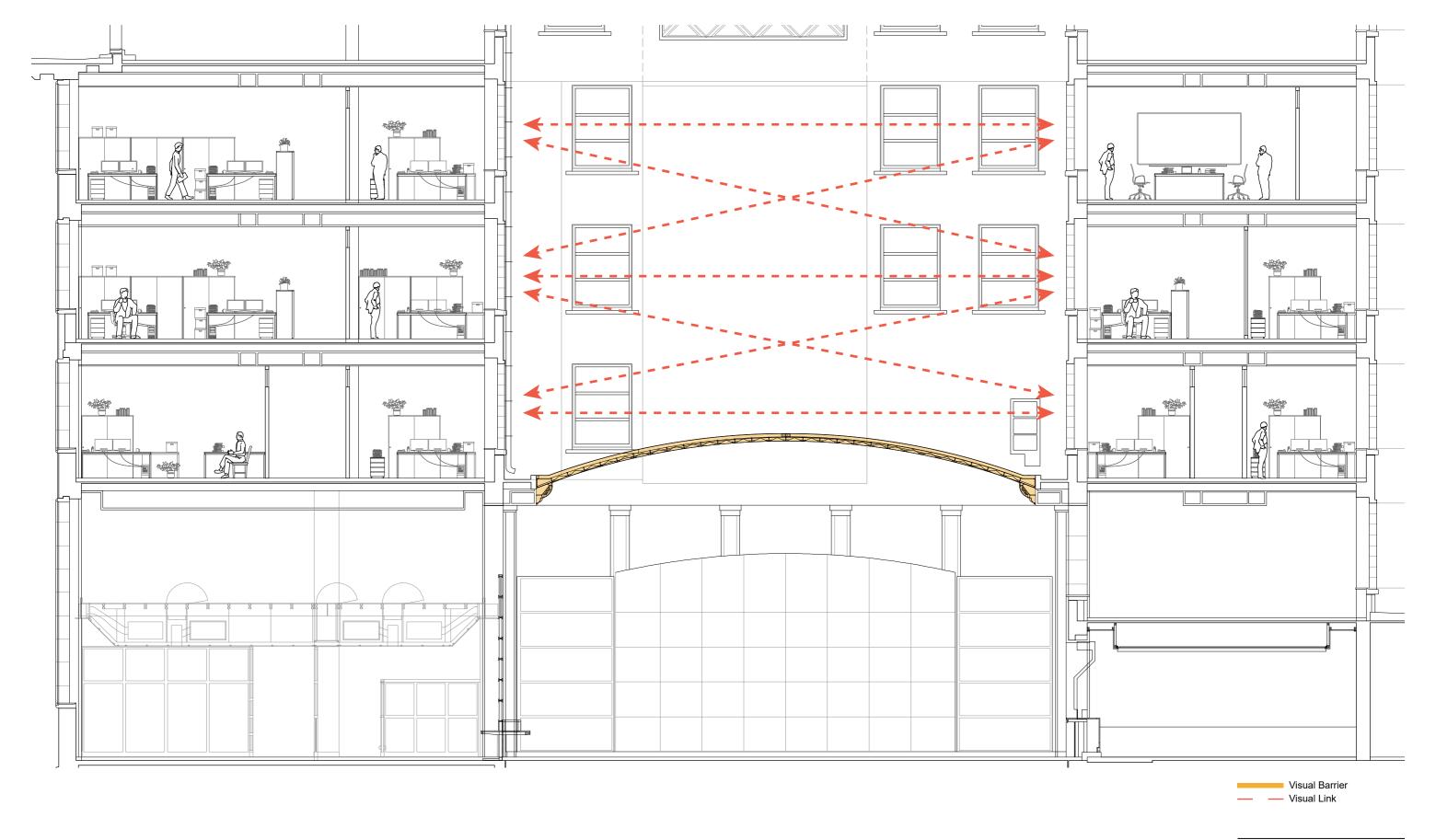


— — Visitor Movement
— Artefacts

Plan

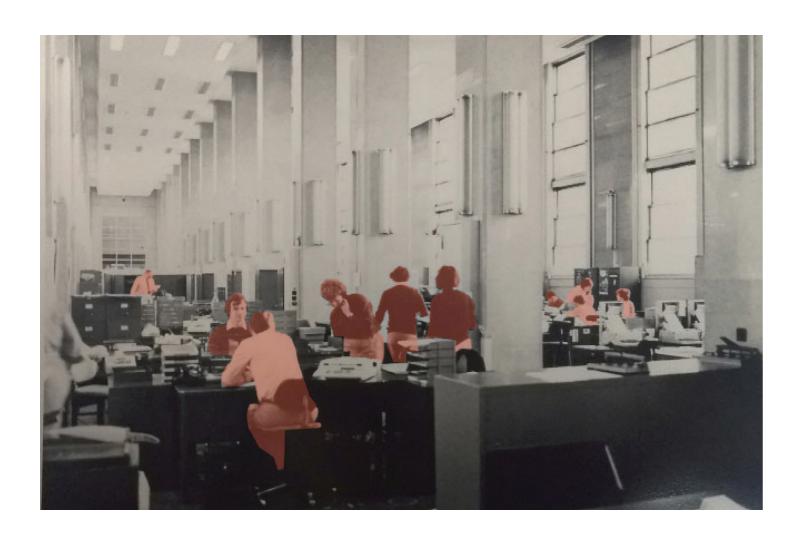
Ground Floor / 1:200 National Bank of Belgium Brussels, Belgium

## **Distribution In & Through Space | No Visual Linkage**

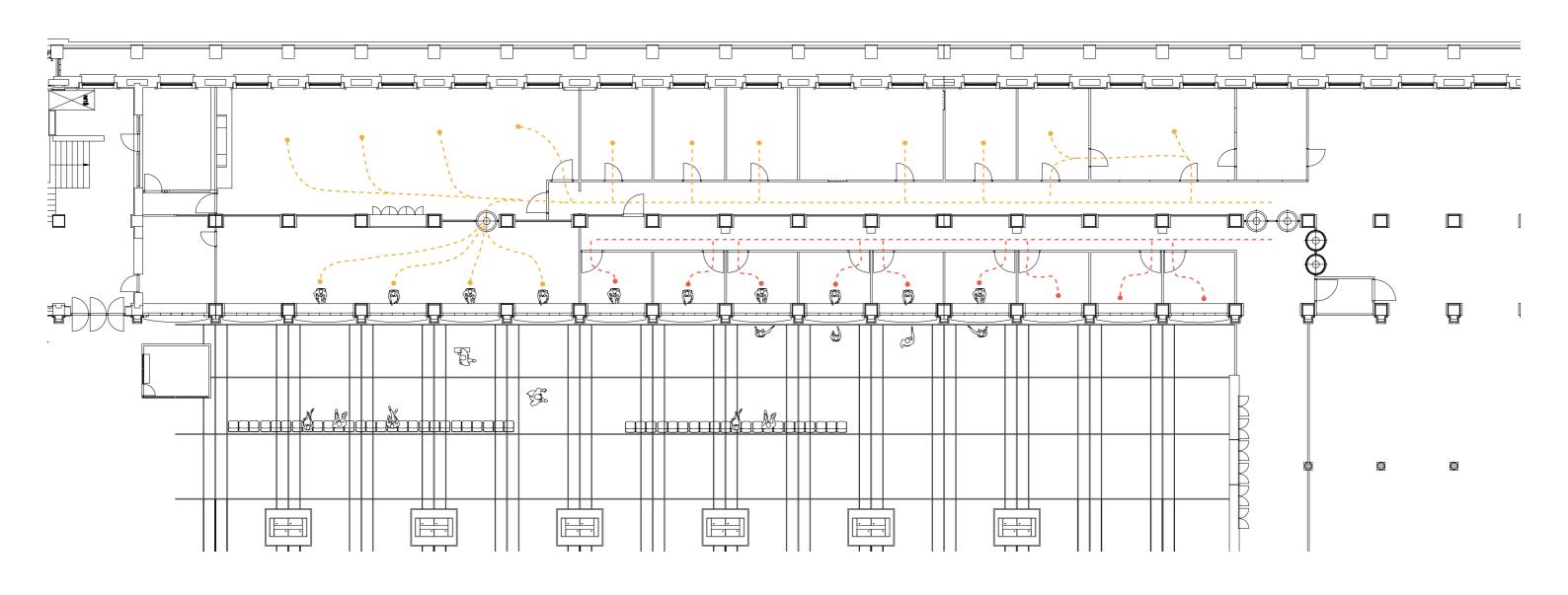


#### Section

1:100 National Bank of Belgium Brussels, Belgium





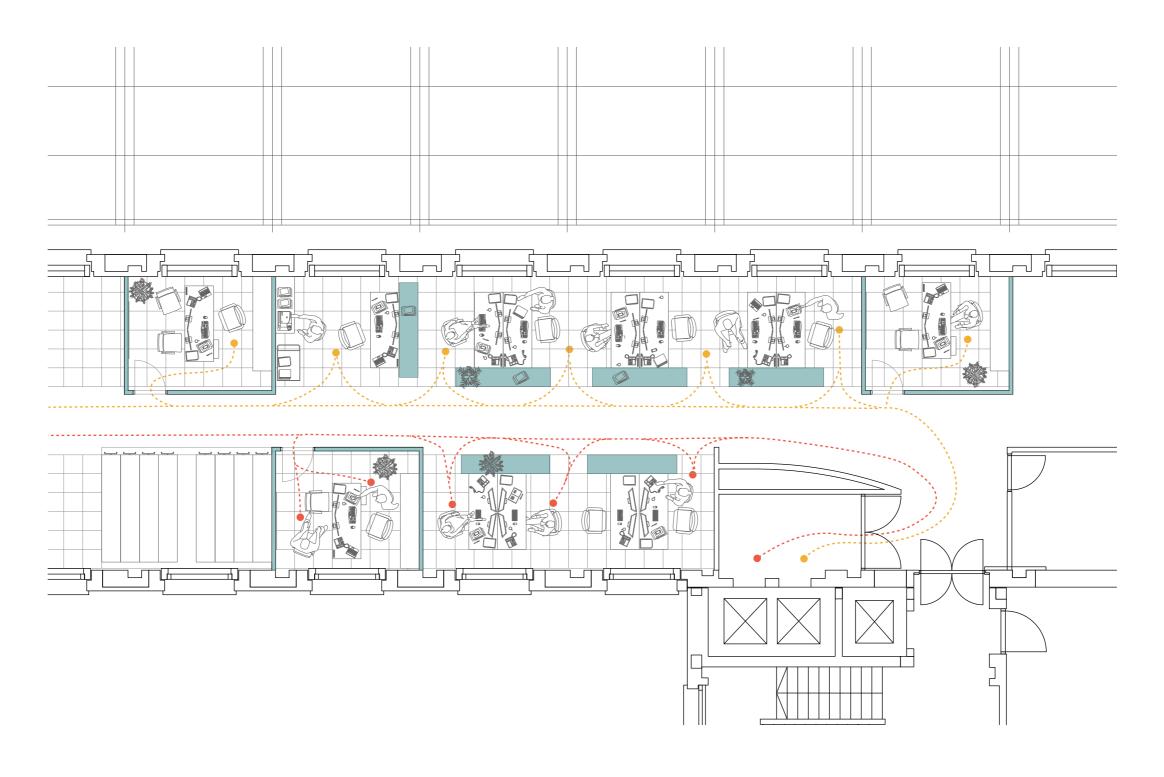


Plan

Ground Floor / 1:200 National Bank of Belgium Brussels, Belgium



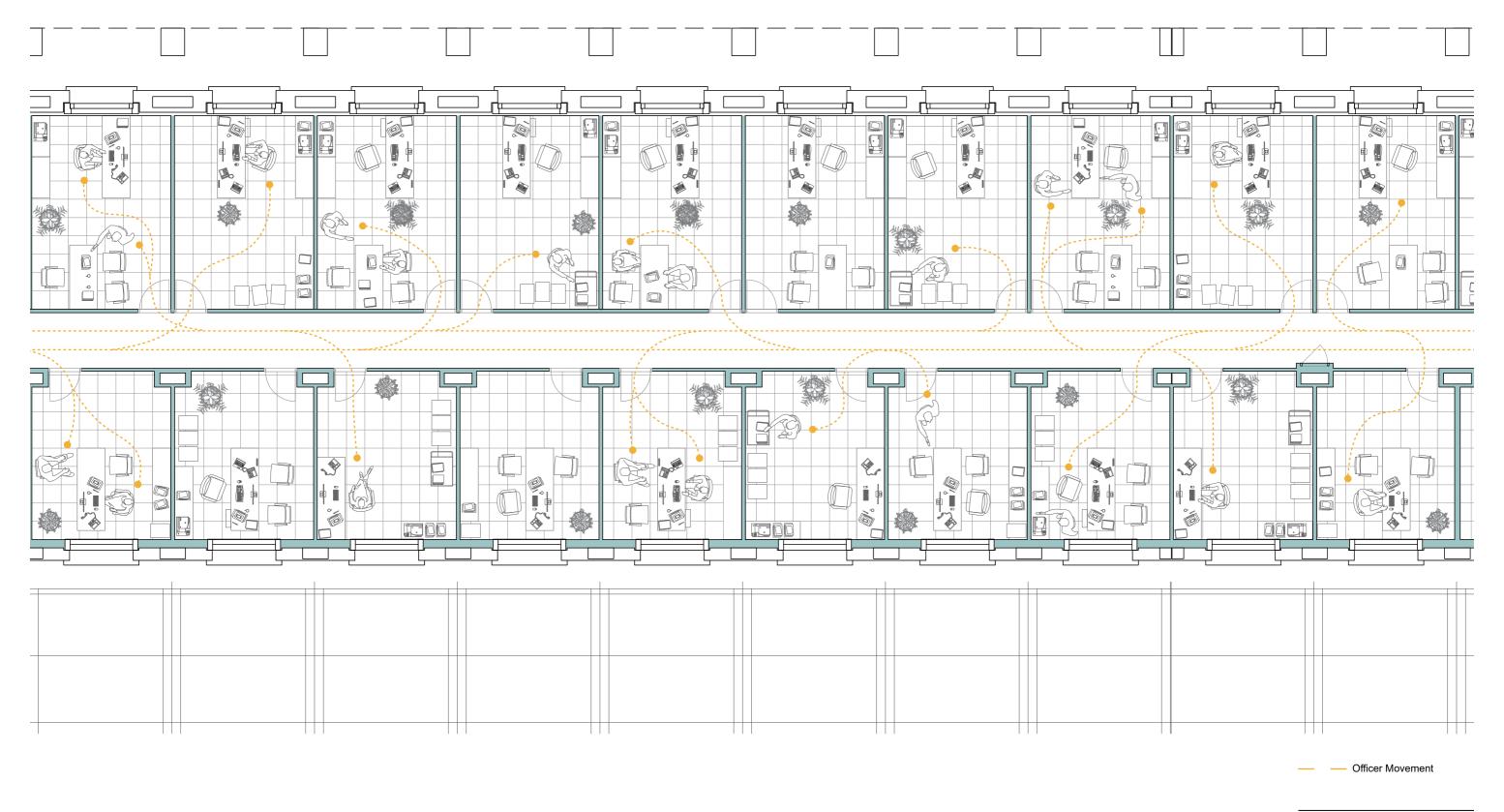




Group 1 Officer MovementGroup 2 Officer Movement

Plan

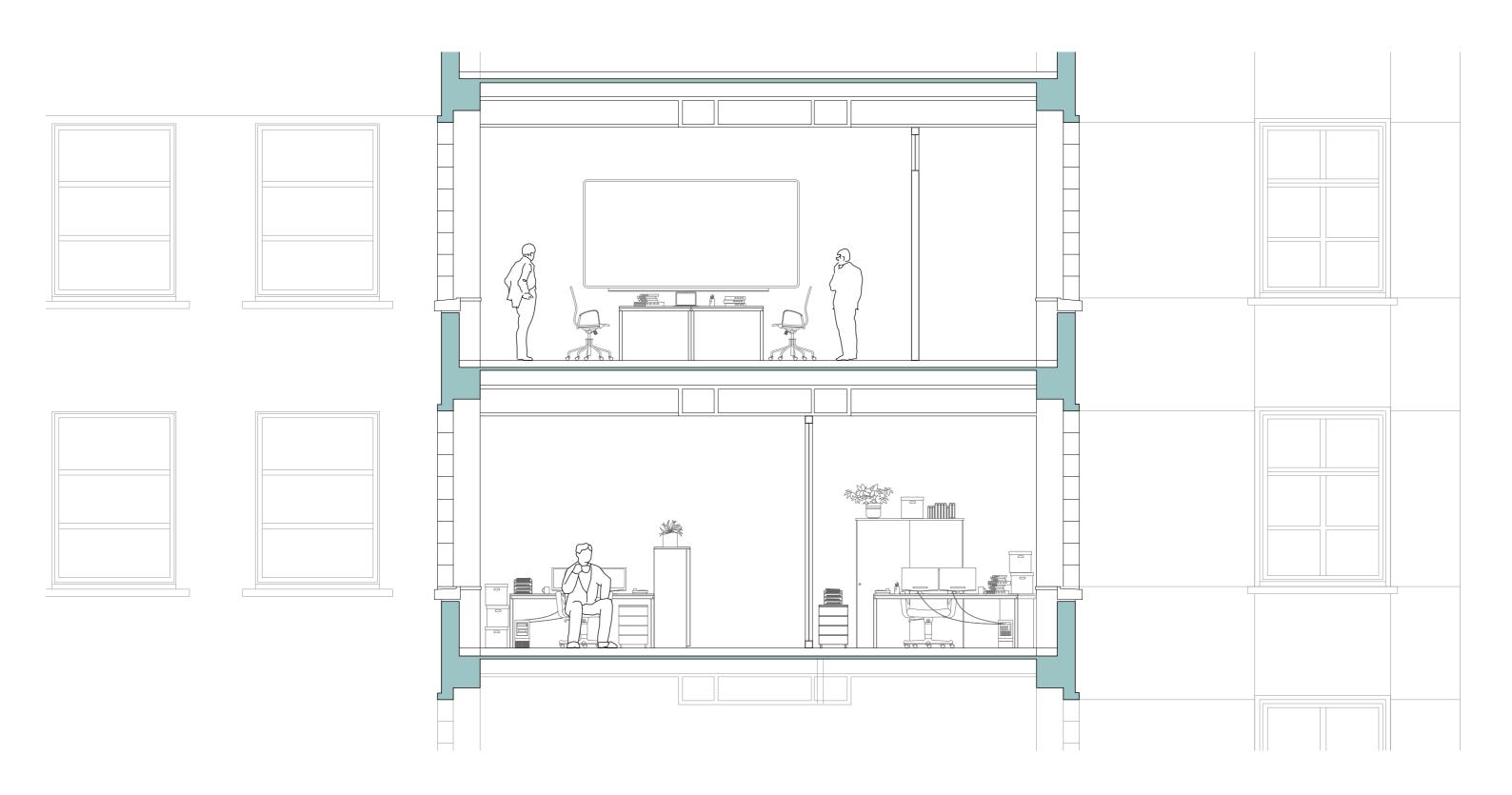
Second Floor / 1:100 National Bank of Belgium Brussels, Belgium



Plan

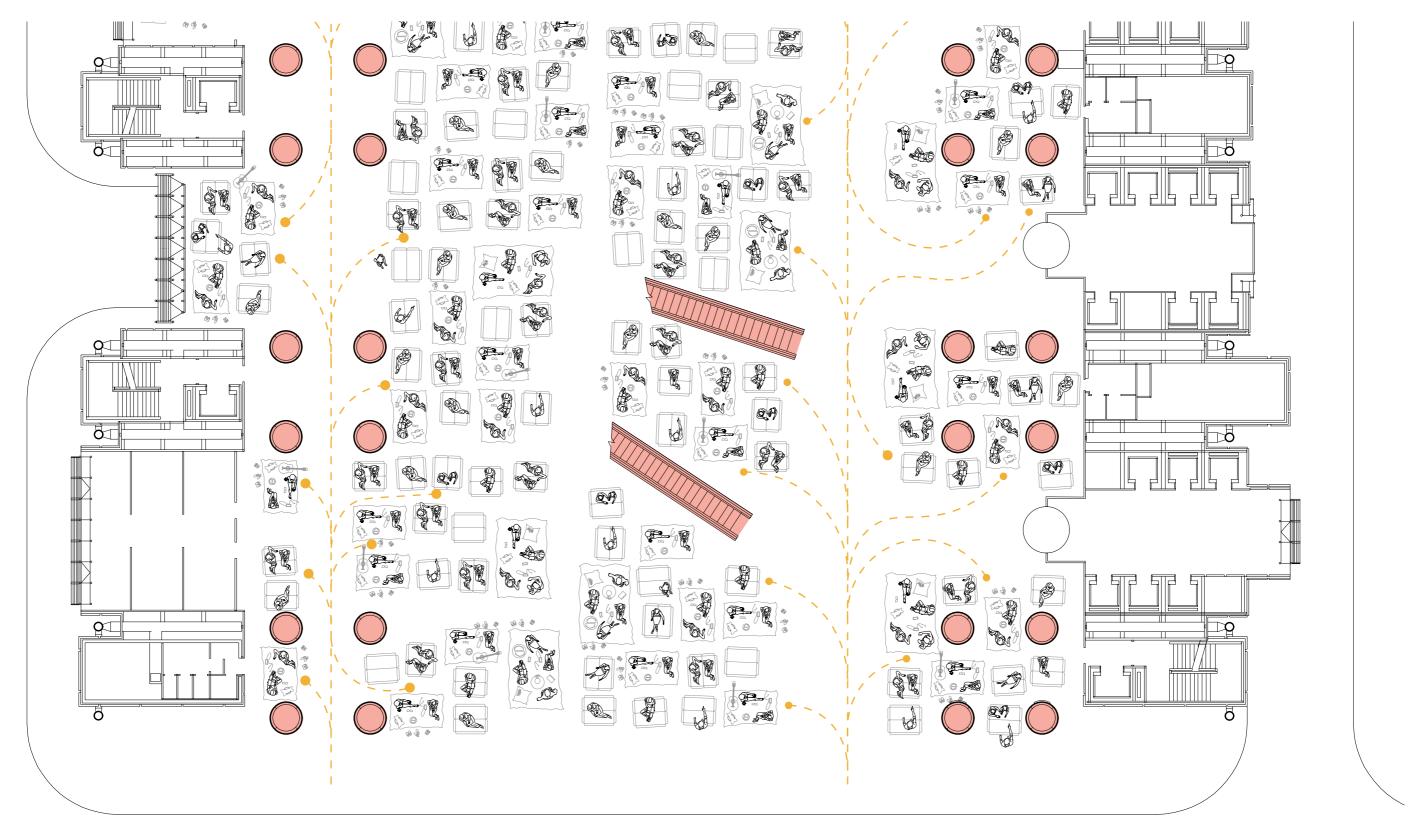
Second Floor / 1:100 National Bank of Belgium Brussels, Belgium

## **Distribution In & Through Space | Missing Vertical Connection**



#### Section



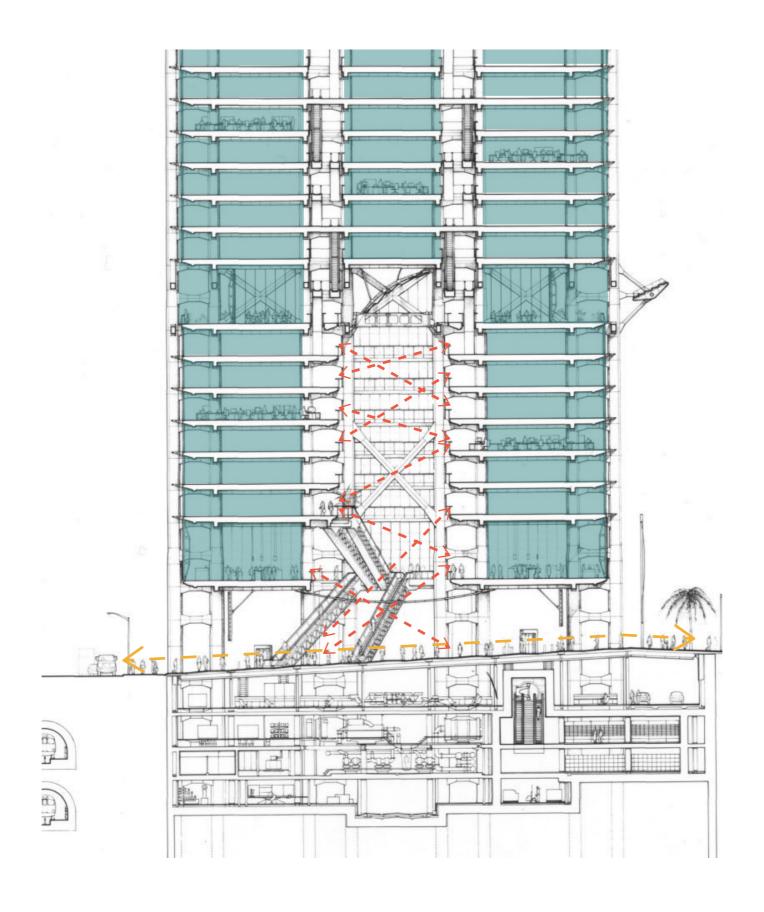


— Public Movement

#### Plan

Ground Floor / 1:200 HSBC Headquarter Central, Hong Kong







#### **Cross Section**

1:50 HSBC Headquarter Central, Hong Kong

## **Research Summary**

# City

- Social role and potentials of the National Bank of Belgium to revitalize Brussels

#### **Research Summary**

## City

- Social role and potentials of the National Bank of Belgium to revitalize Brussels

# **Buildings**

- Segregation of the community due to low accessibility

#### **Research Summary**

## City

- Social role and potentials of the National Bank of Belgium to revitalize Brussels

# **Buildings**

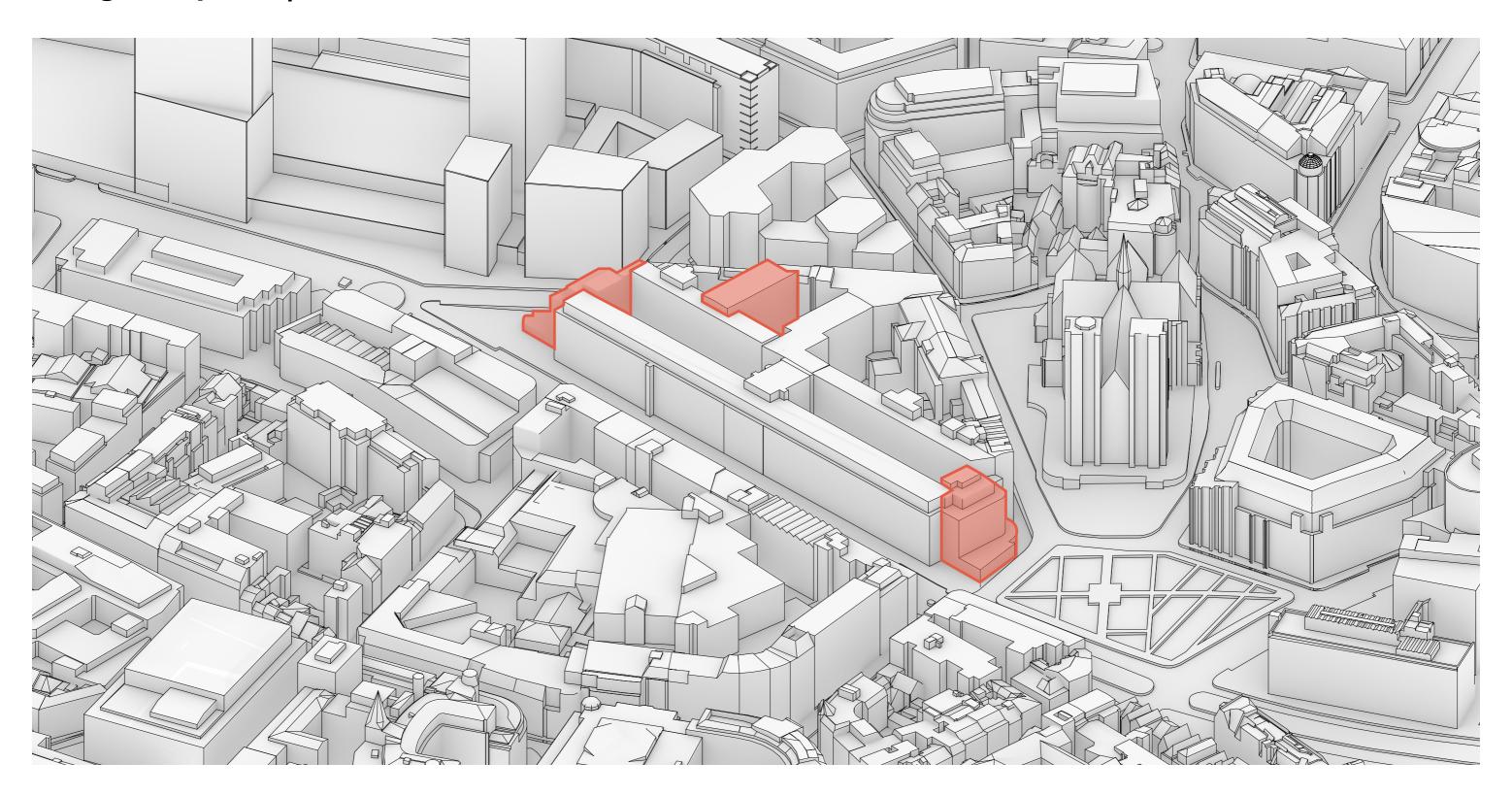
- Segregation of the community due to low accessibility

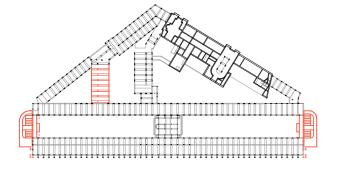
#### **Interior**

- Social separation between the National Bank of Belgium and the public
- Loss of working hierarchy due to inappropriate working environment



## **Design Proposal | Demolishment**

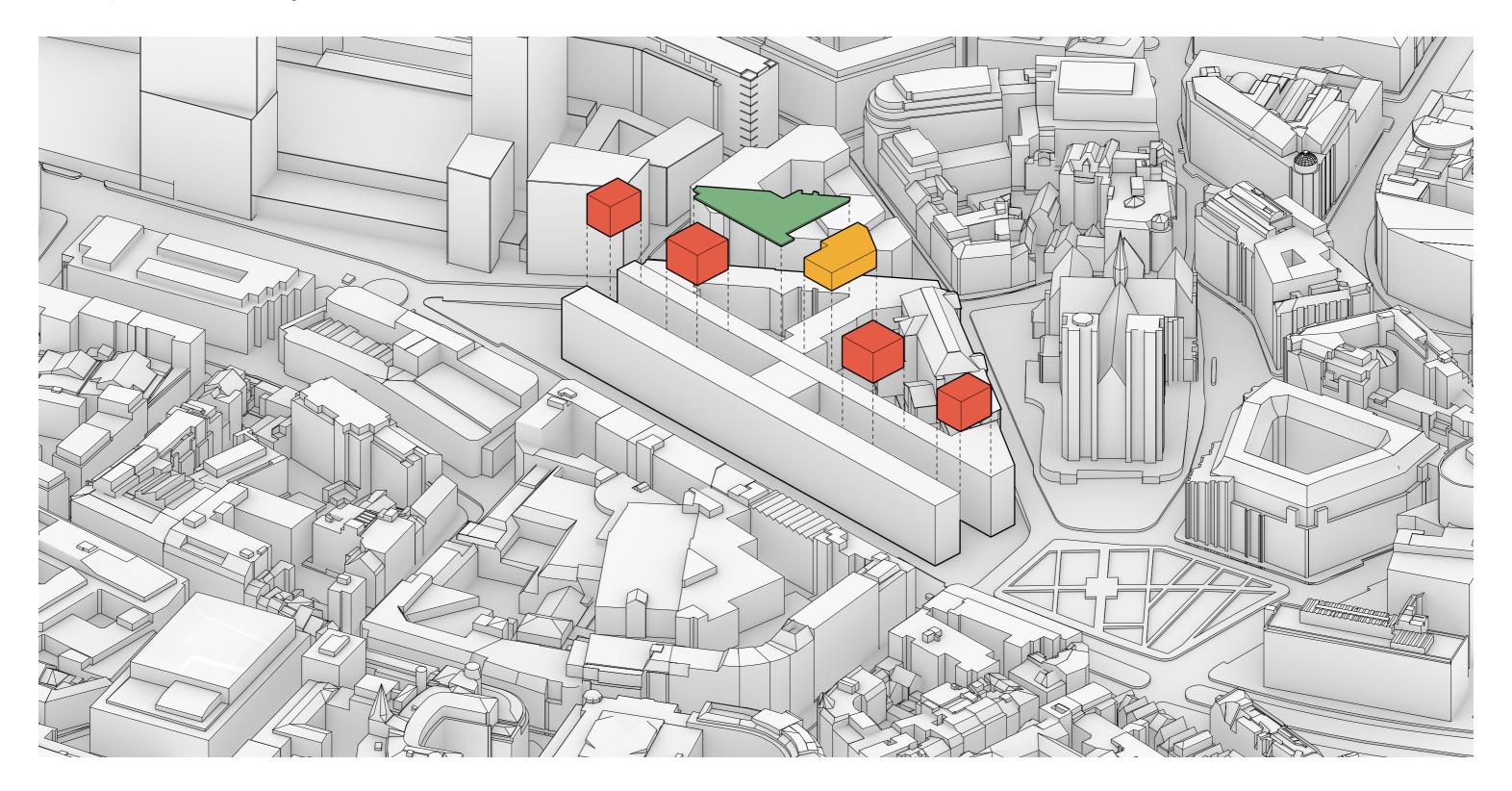




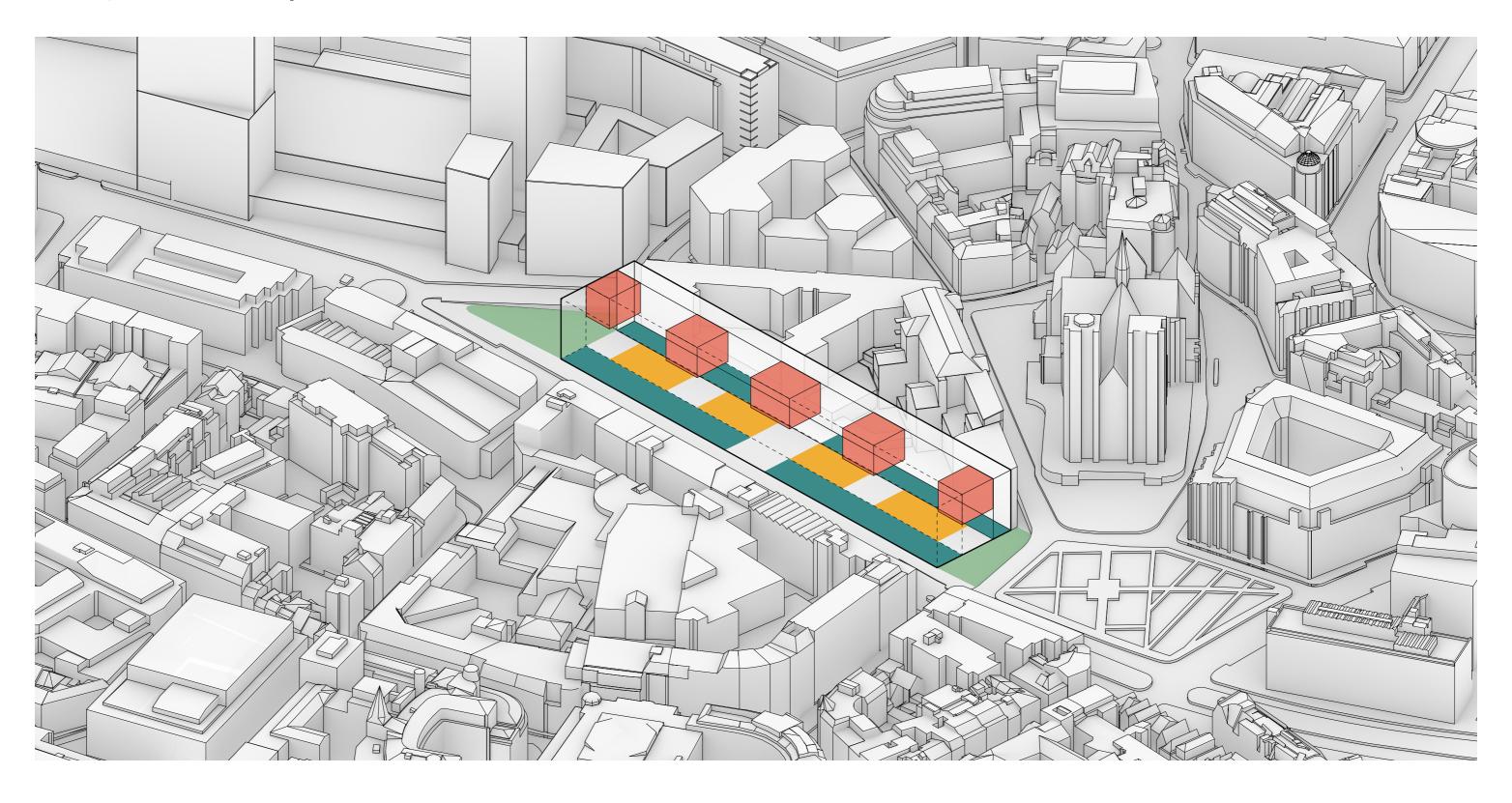
#### Structural Plan

Ground Floor / 1:750 National Bank of Belgium Brussels, Belgium

## **Design Proposal | Social Plinth**



## **Design Proposal | Social Plinth**





#### Plan Diagram

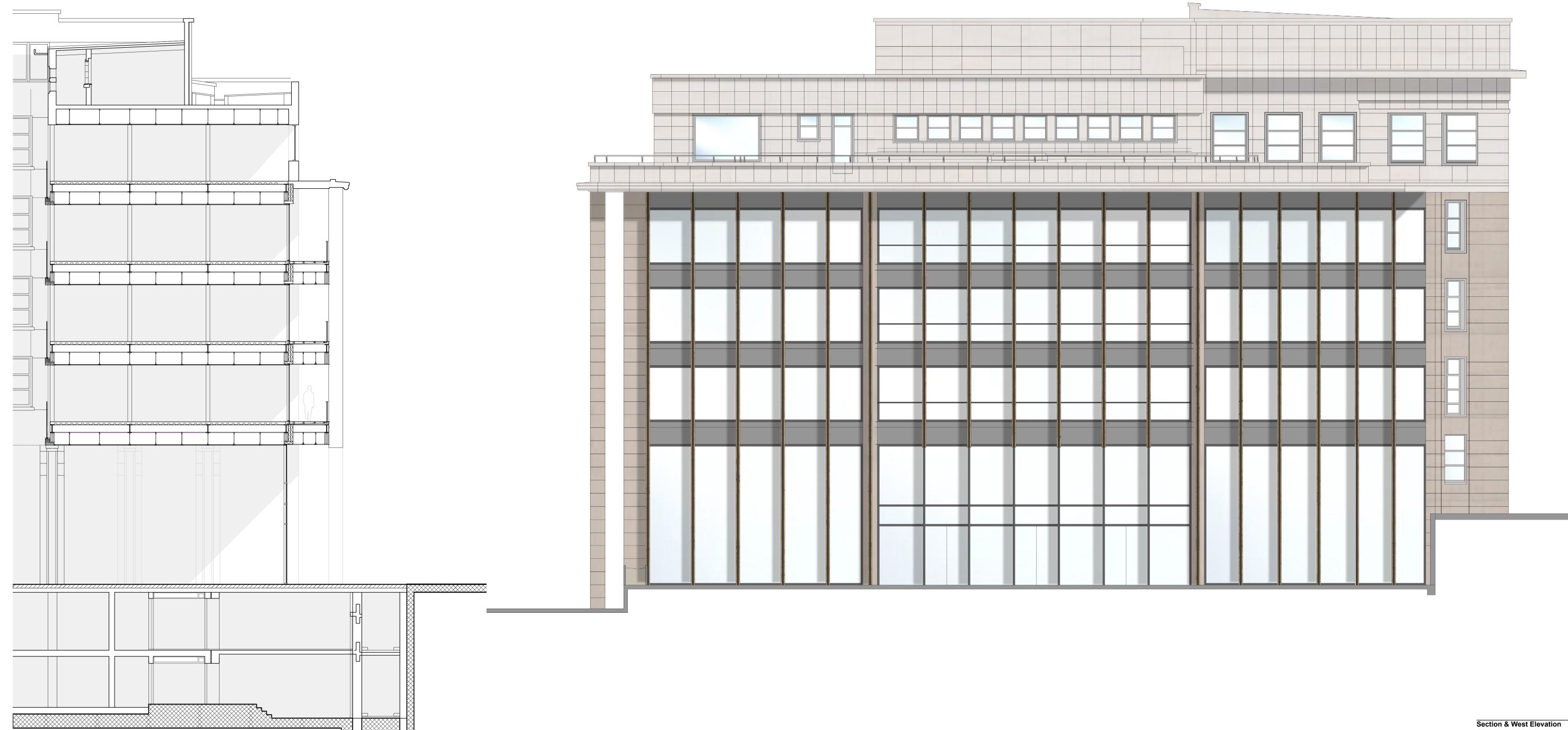
Ground Floor / Not-to-scale National Bank of Belgium Brussels, Belgium

# **Design Proposal | New Entrance**

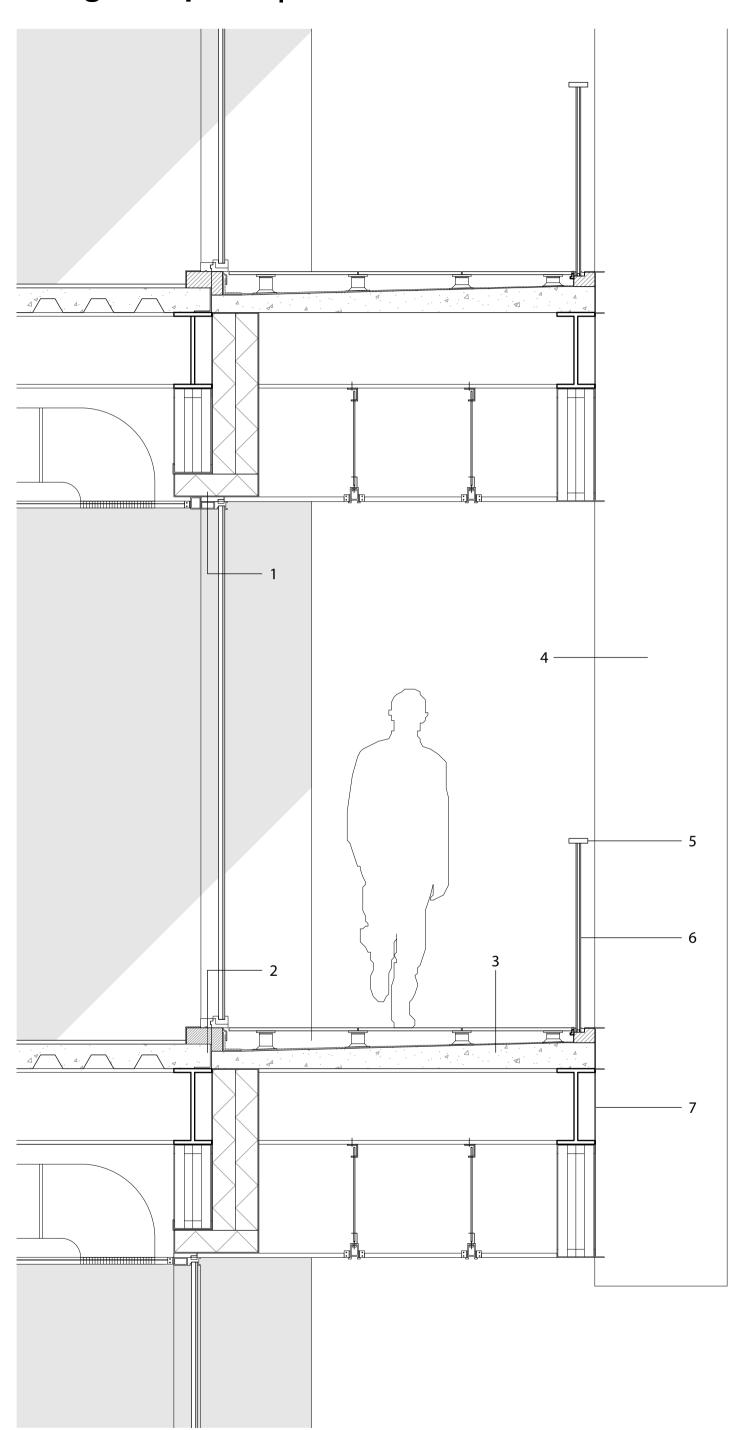


#### Render

## Design Proposal | Facade

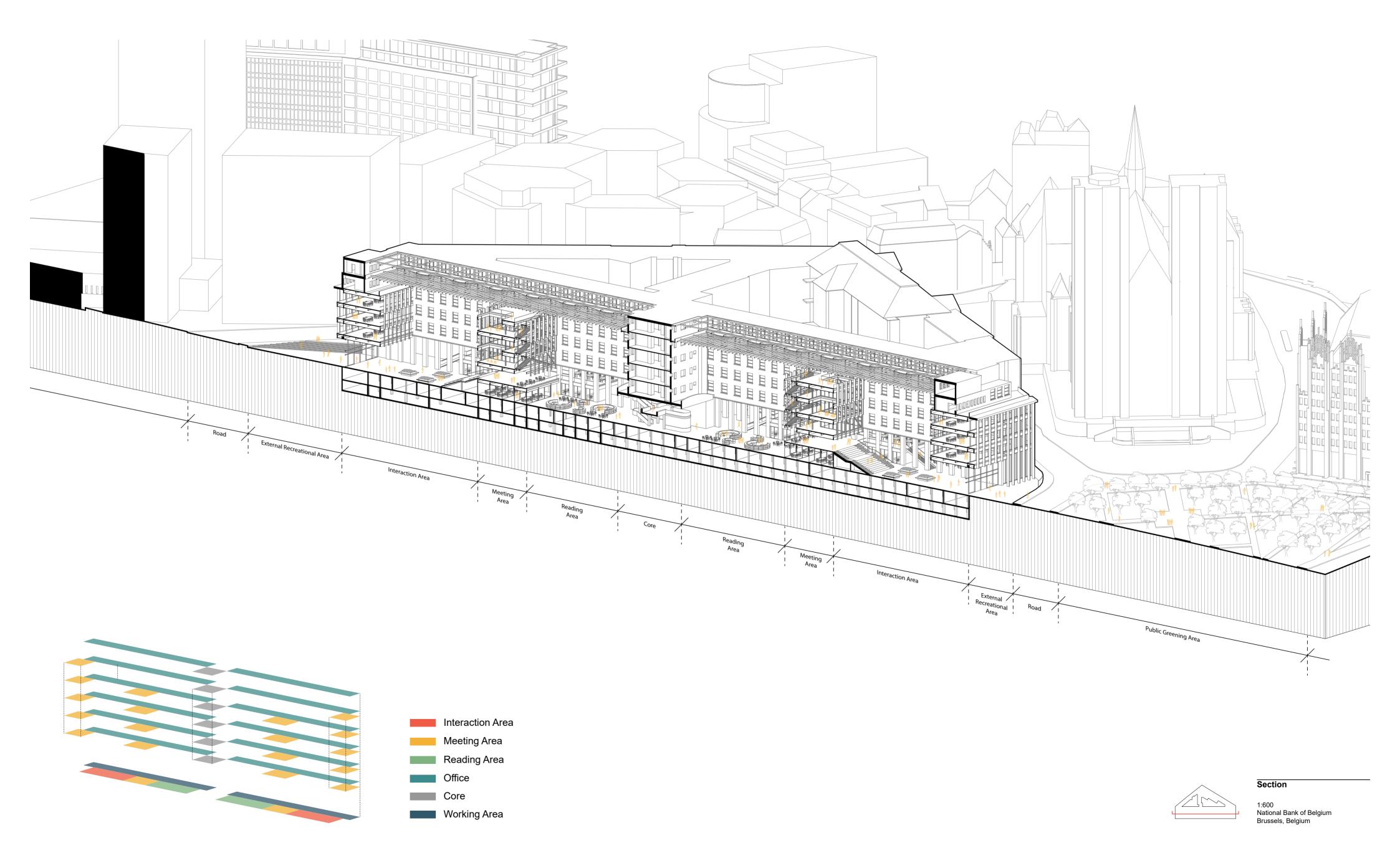


### **Design Proposal | Facade Details**



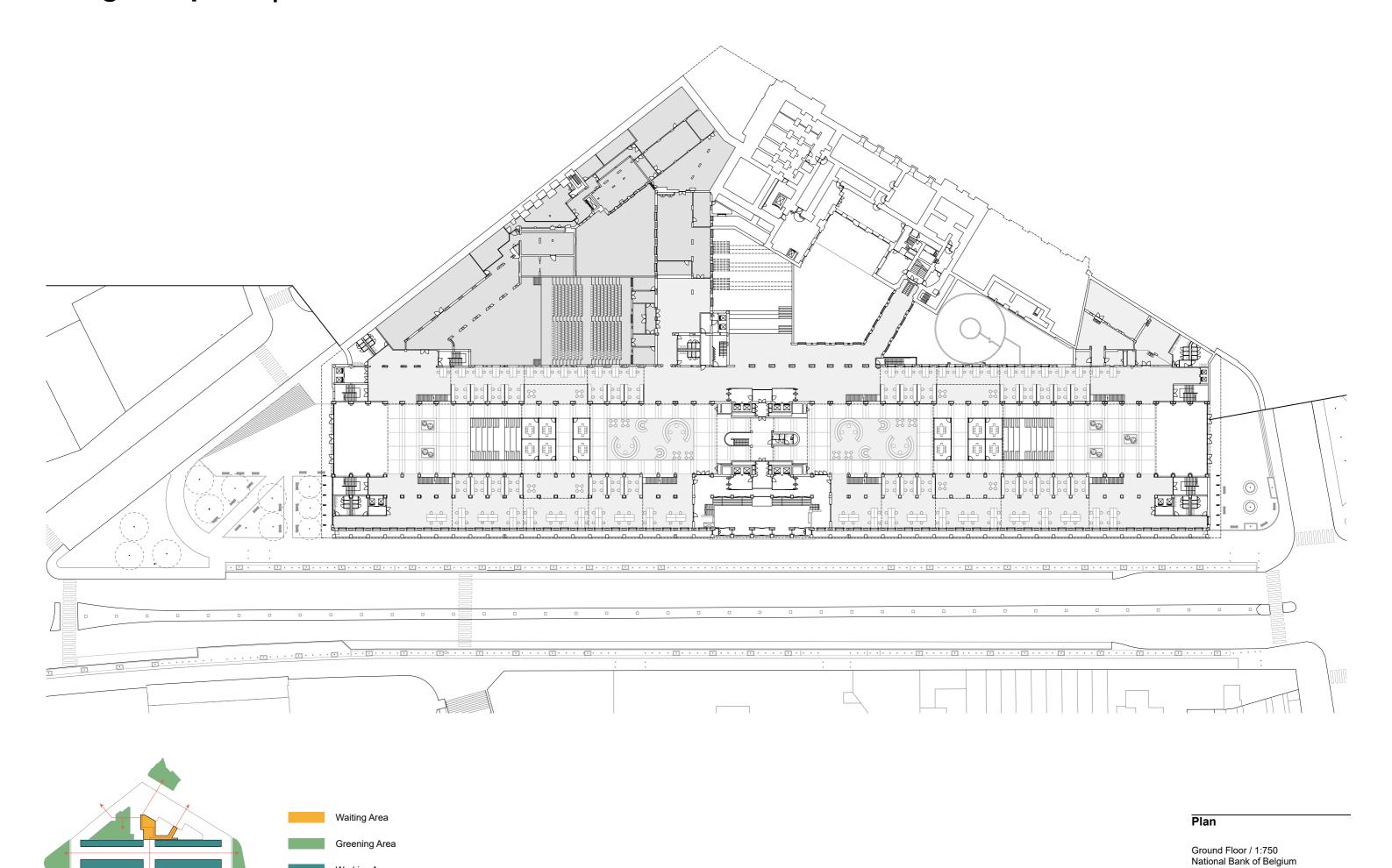
- 1 Vertical Aluminium Profile **Installation Foam** Waterproof Membrane XPS - 7cm Extruded polystyrene (XPS) board **CLT Beam** Steel Beam
- 2 Installation Foam Thermal Installation Element Interior Flooring - carpet Concrete Slab
- 3 Outdoor Flooring granite **PVC Raised Floor Pedestal** Waterproof Membrane - 4mm
- 4 Aluminium Vertical Fins
- 5 Railing Handle
- 6 Triplex Tempered Glass
- 7 Aluminium Fascia Panel

## Design Proposal | Boundless Office & Residence



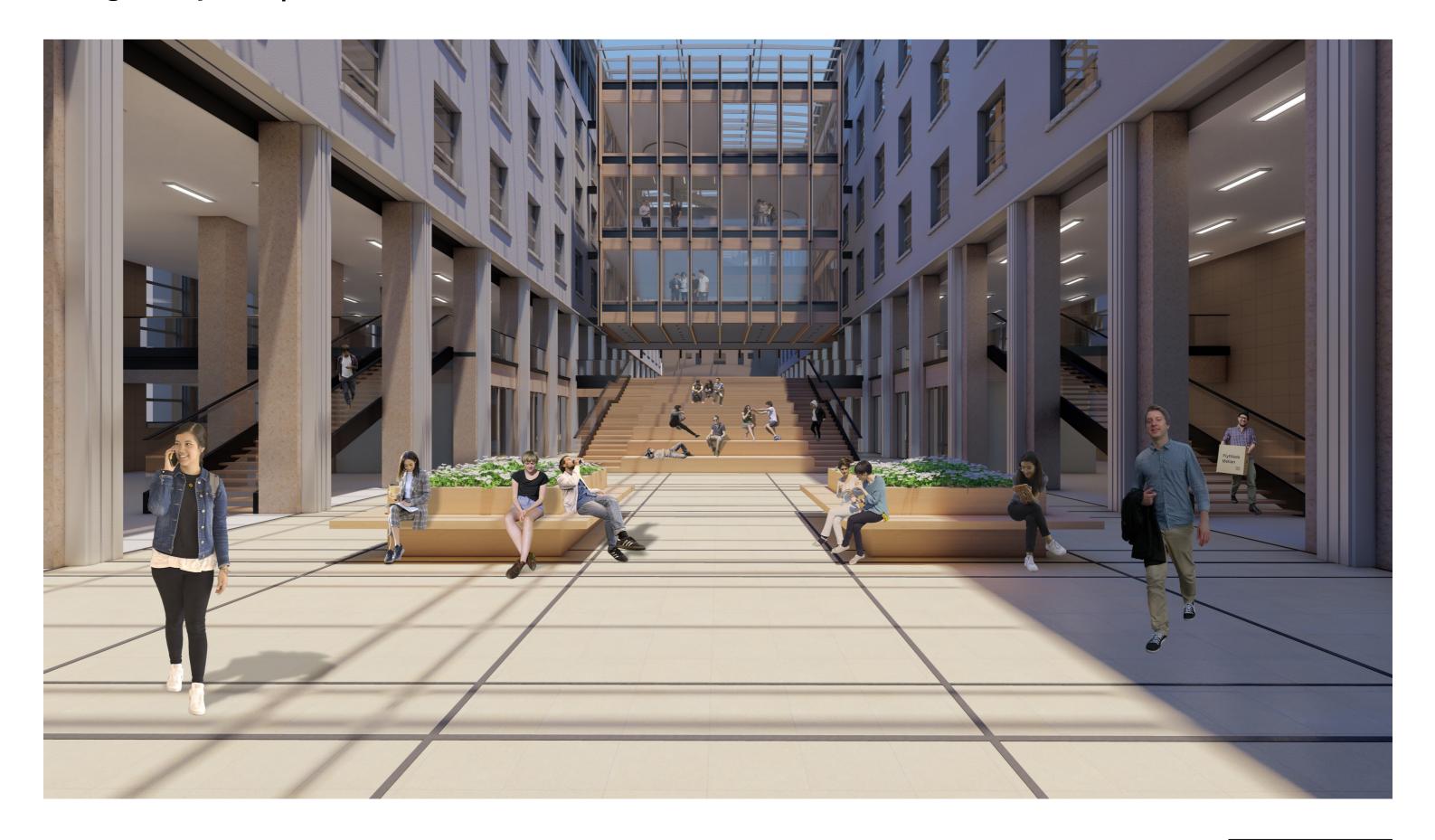
## **Design Proposal | Social Plinth**

Working Area



Brussels, Belgium

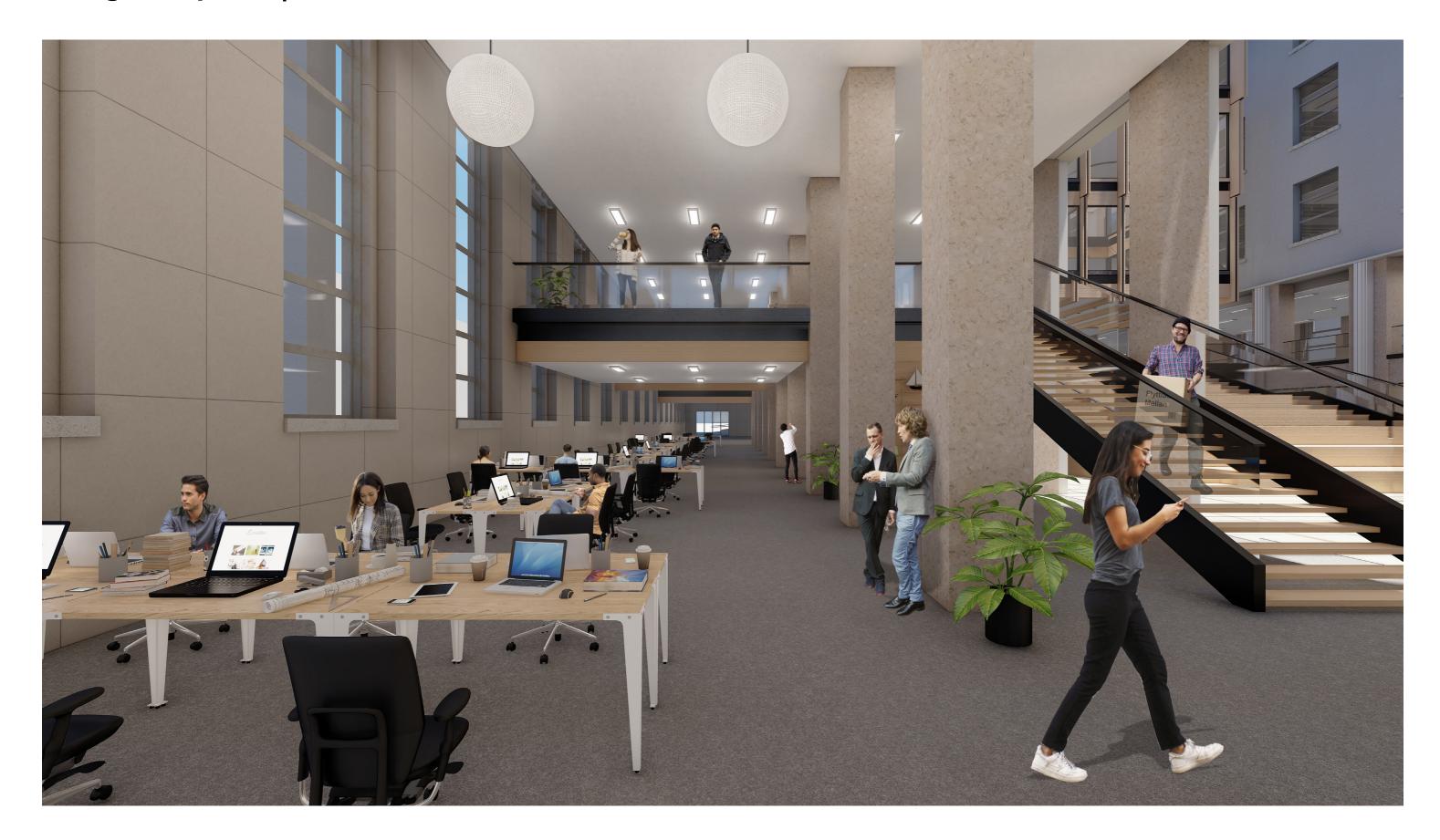
## **Design Proposal | Visual Connection**



#### Render

Ground Floor National Bank of Belgium Brussels, Belgium

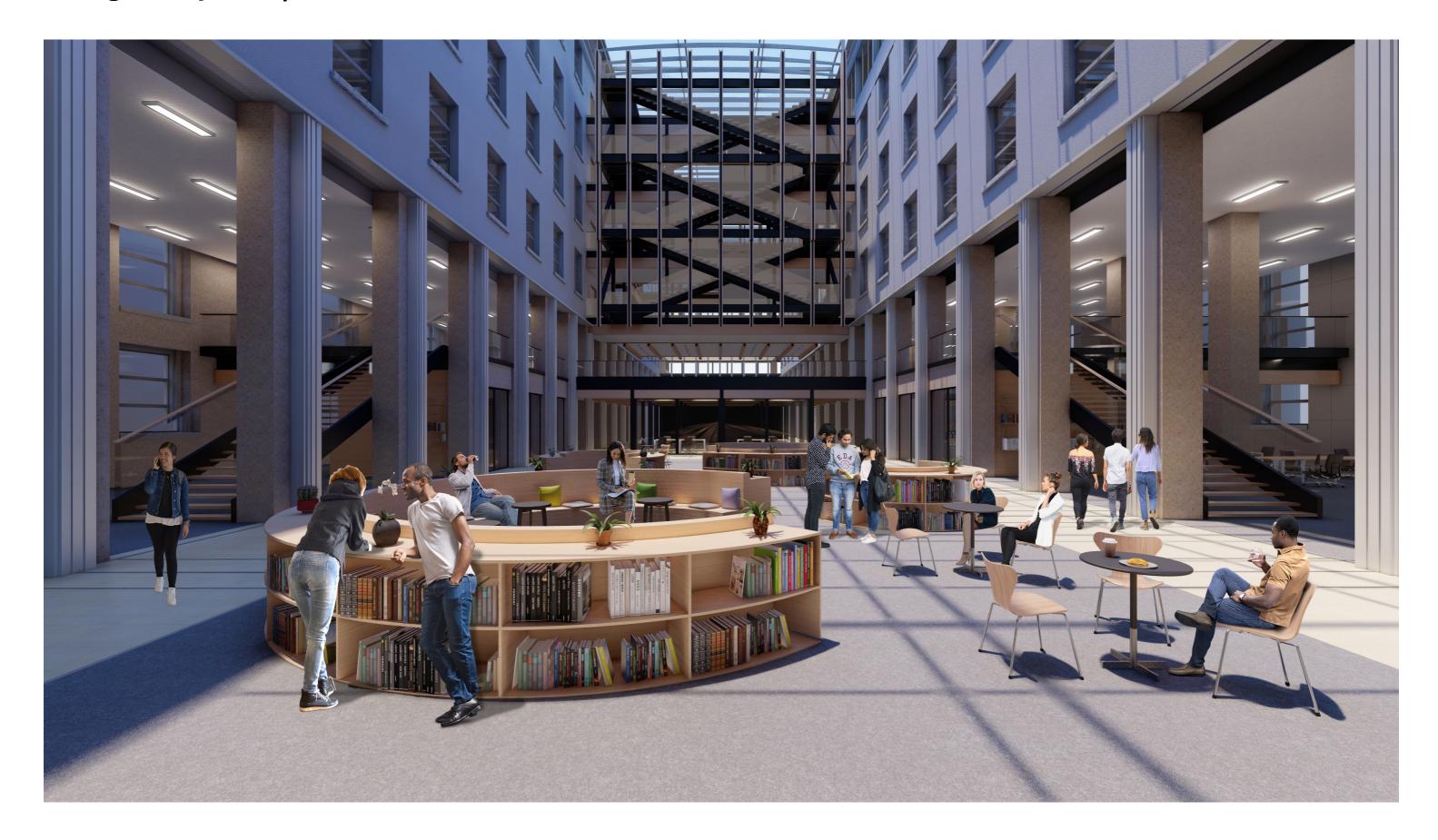
## **Design Proposal | Visual Connection**



#### Render

Ground Floor National Bank of Belgium Brussels, Belgium

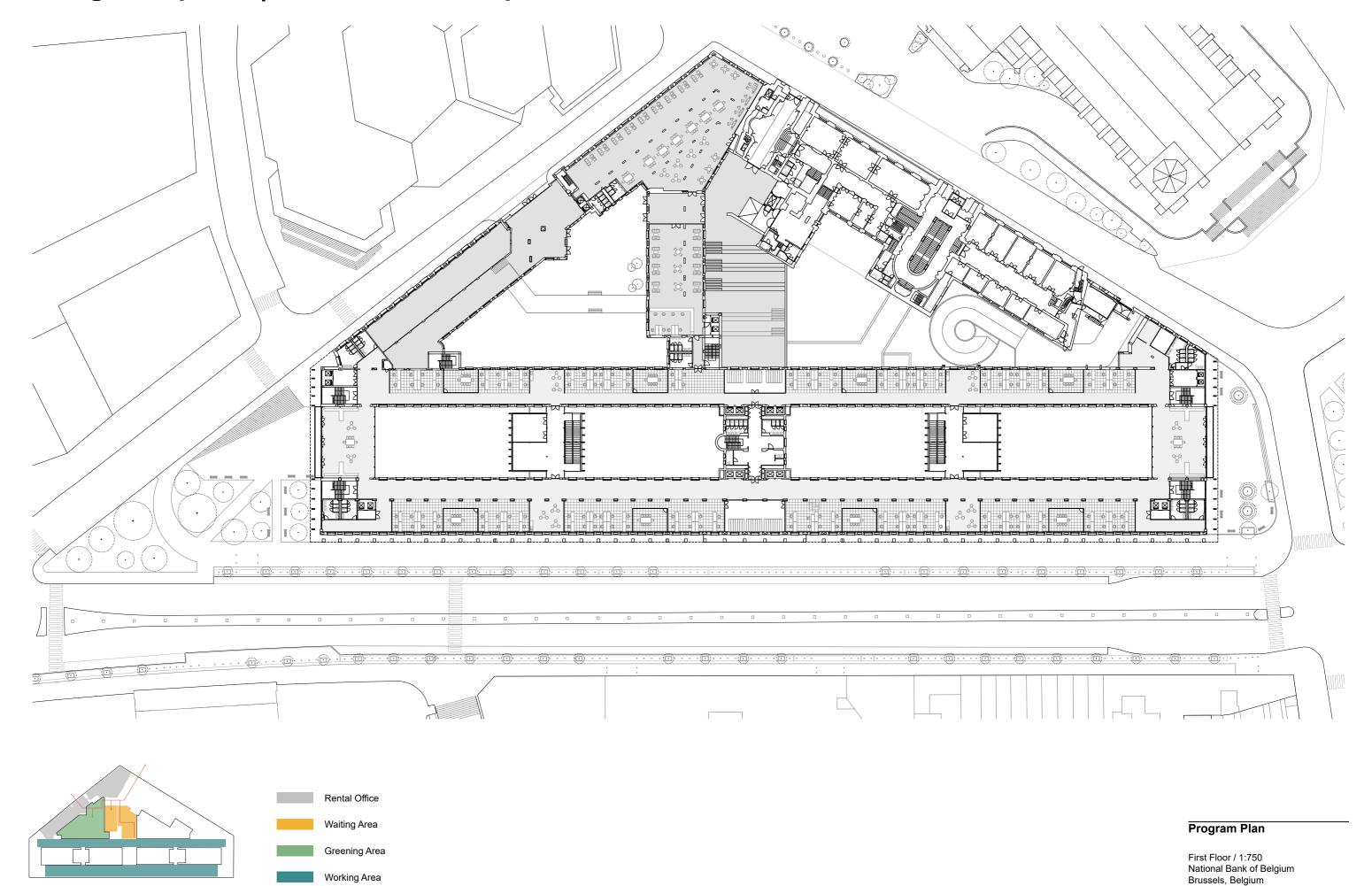
## **Design Proposal | Visual Connection**



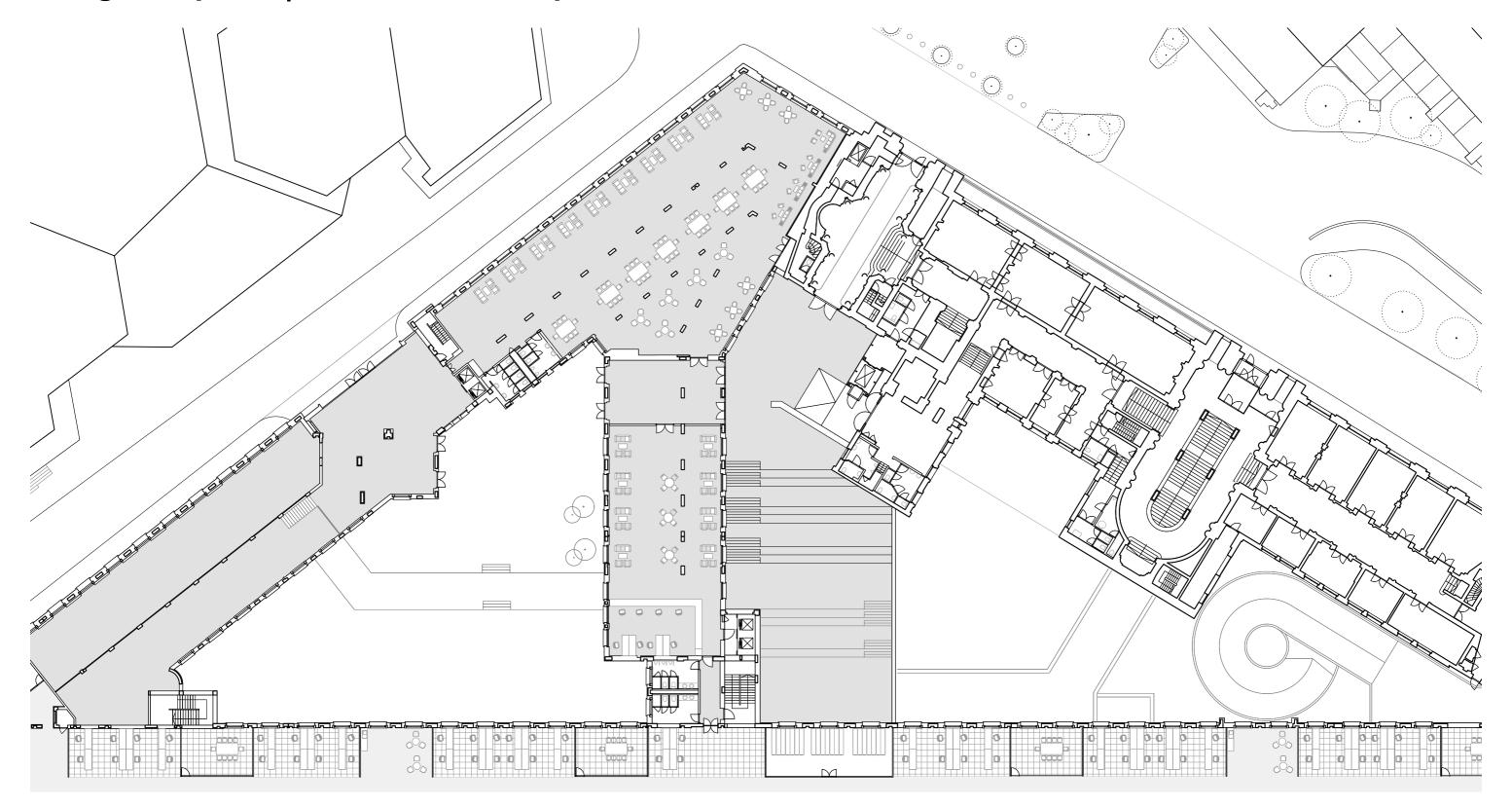
#### Render

Ground Floor National Bank of Belgium Brussels, Belgium

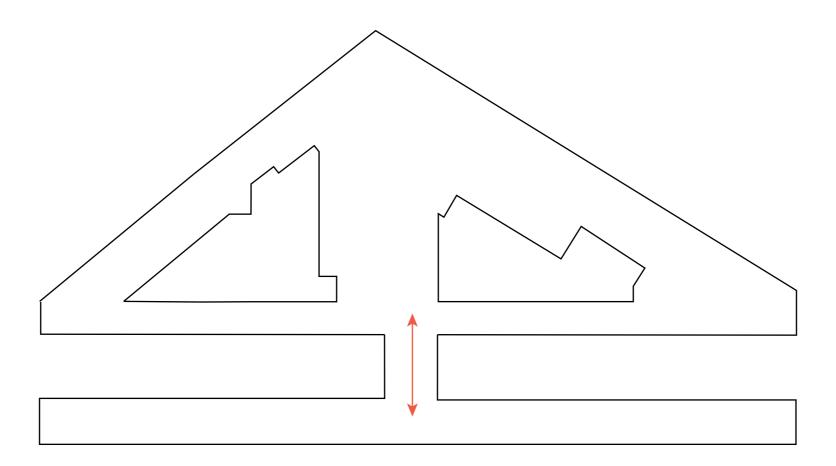
## **Design Proposal | Centralized Reception**



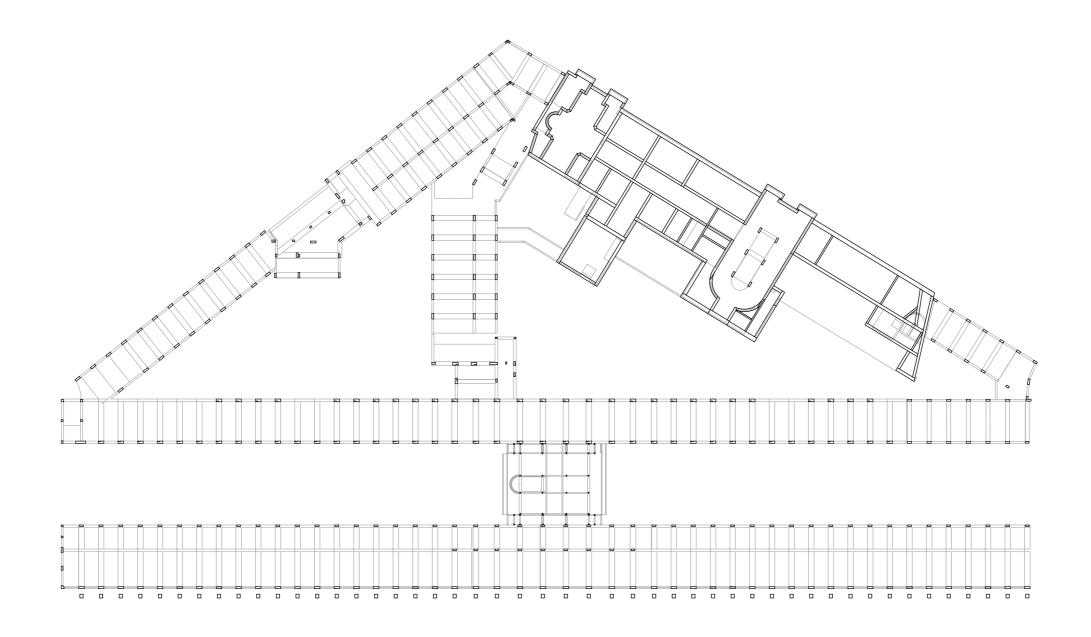
### **Design Proposal | Centralized Reception**



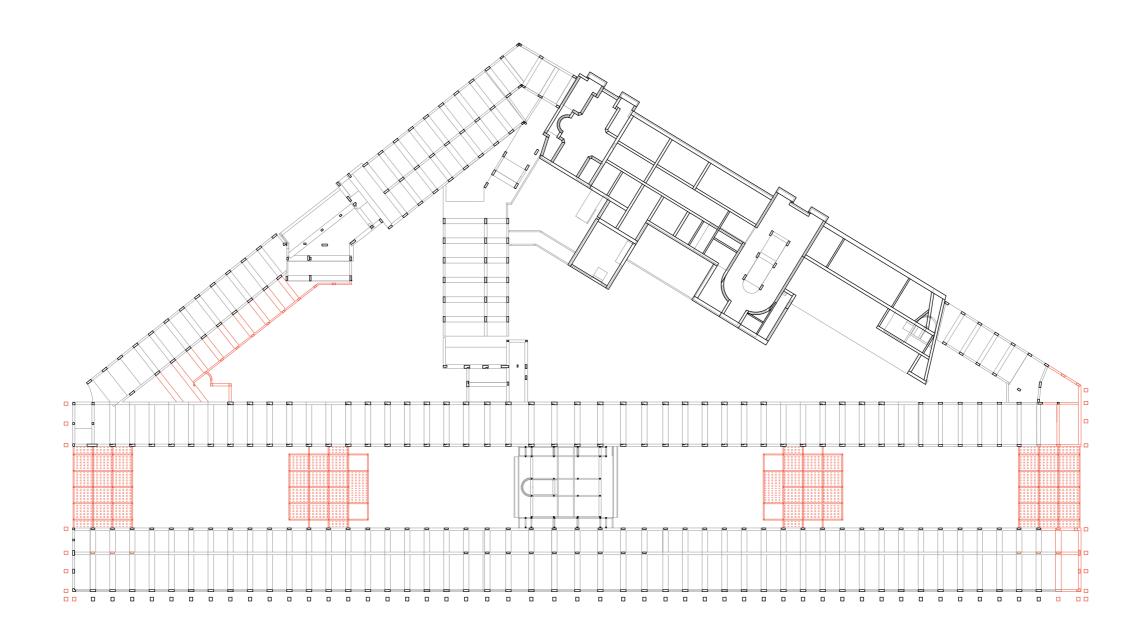
## **Design Proposal | Detached Office**



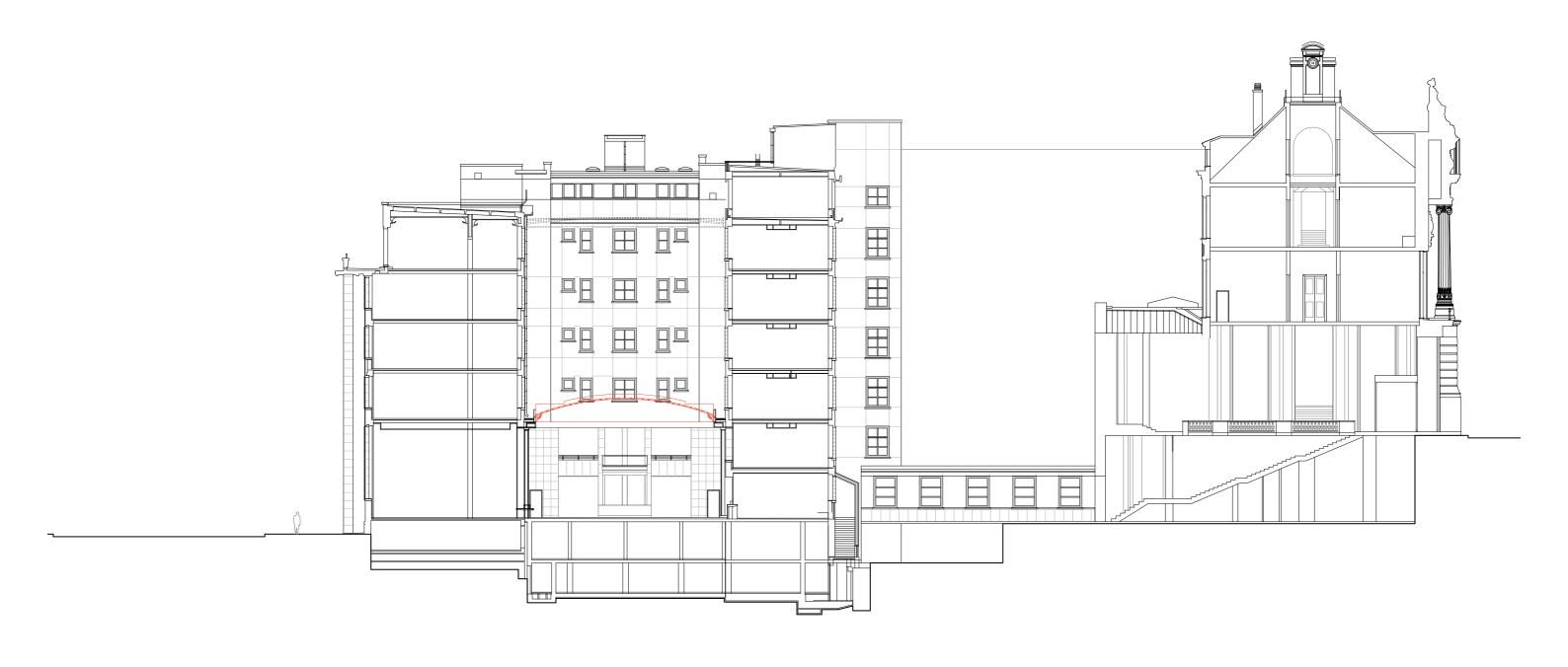
## **Design Proposal | Retained Structure**



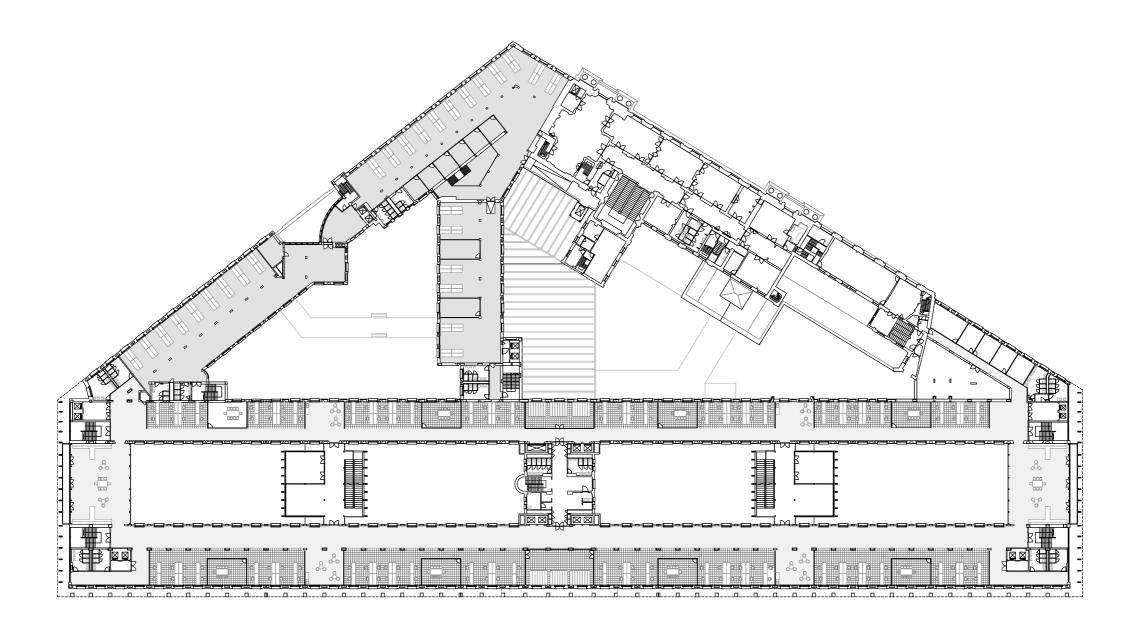
## **Design Proposal | Intervention**

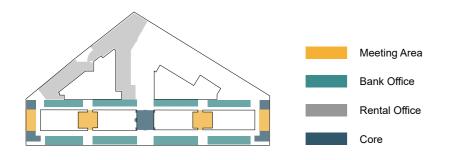


## **Design Proposal | Demolishment**



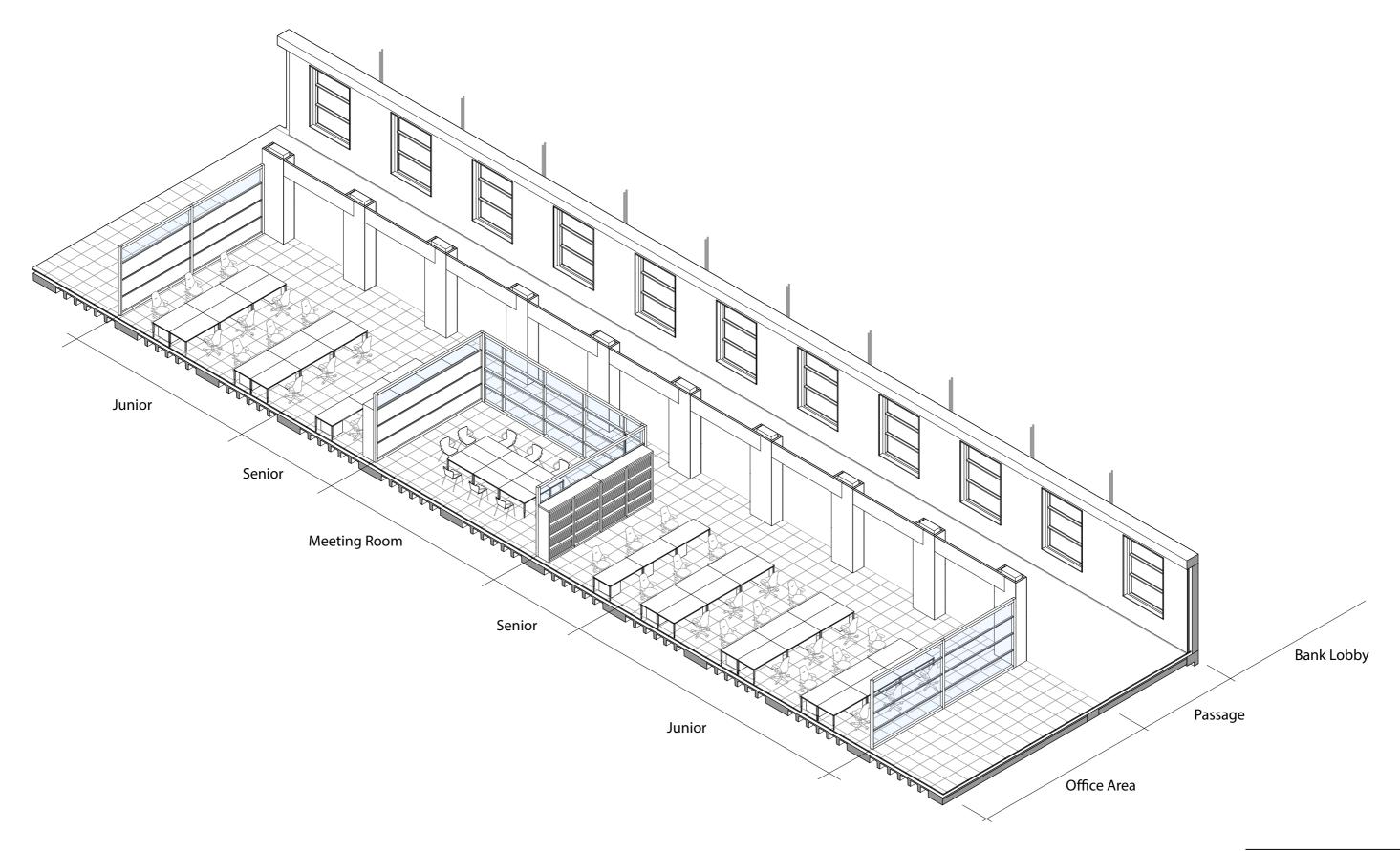
## **Design Proposal | Office Layout**





#### Plan

## **Design Proposal | Reformed Social Structure**

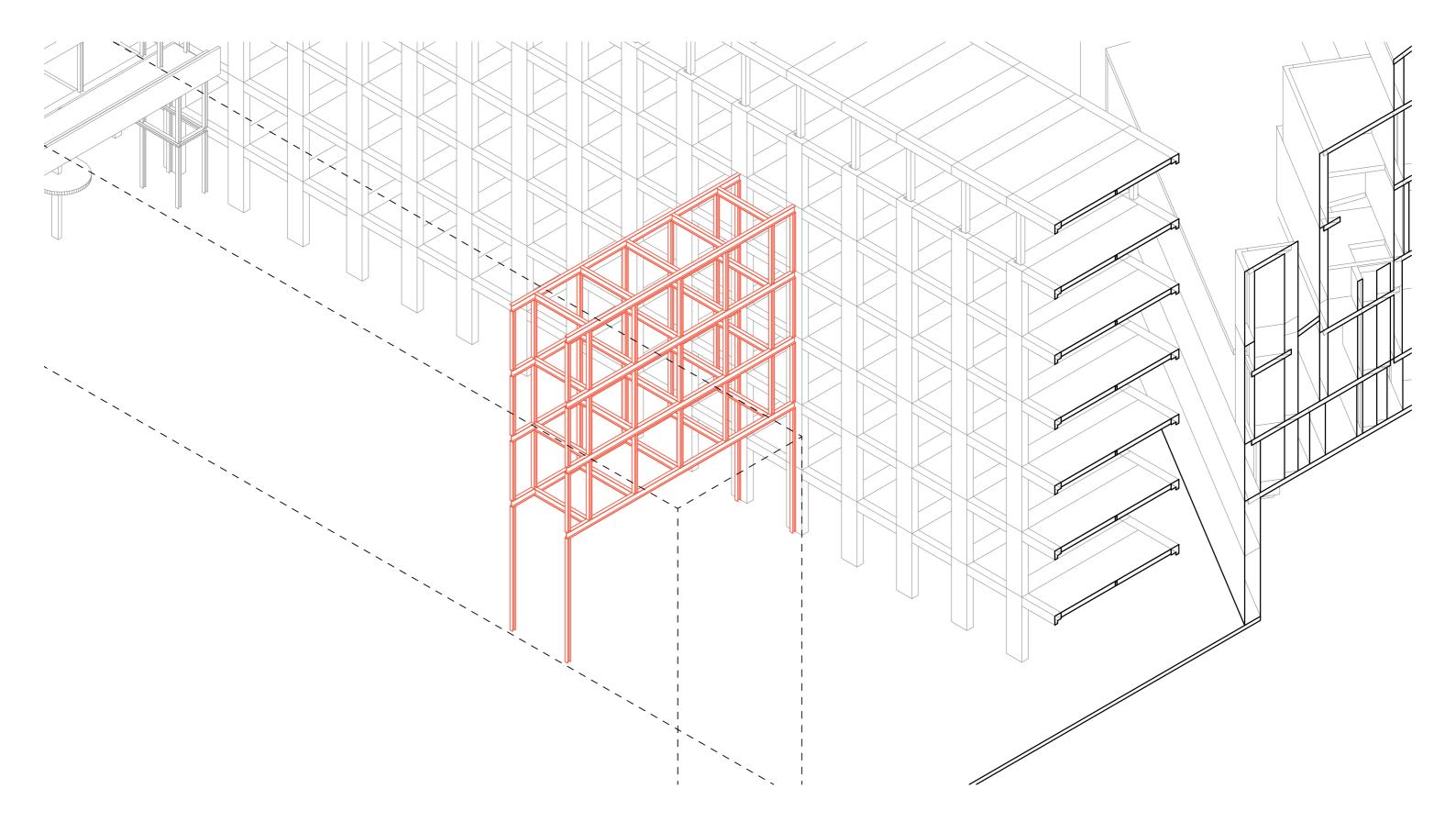


#### Axonometrics

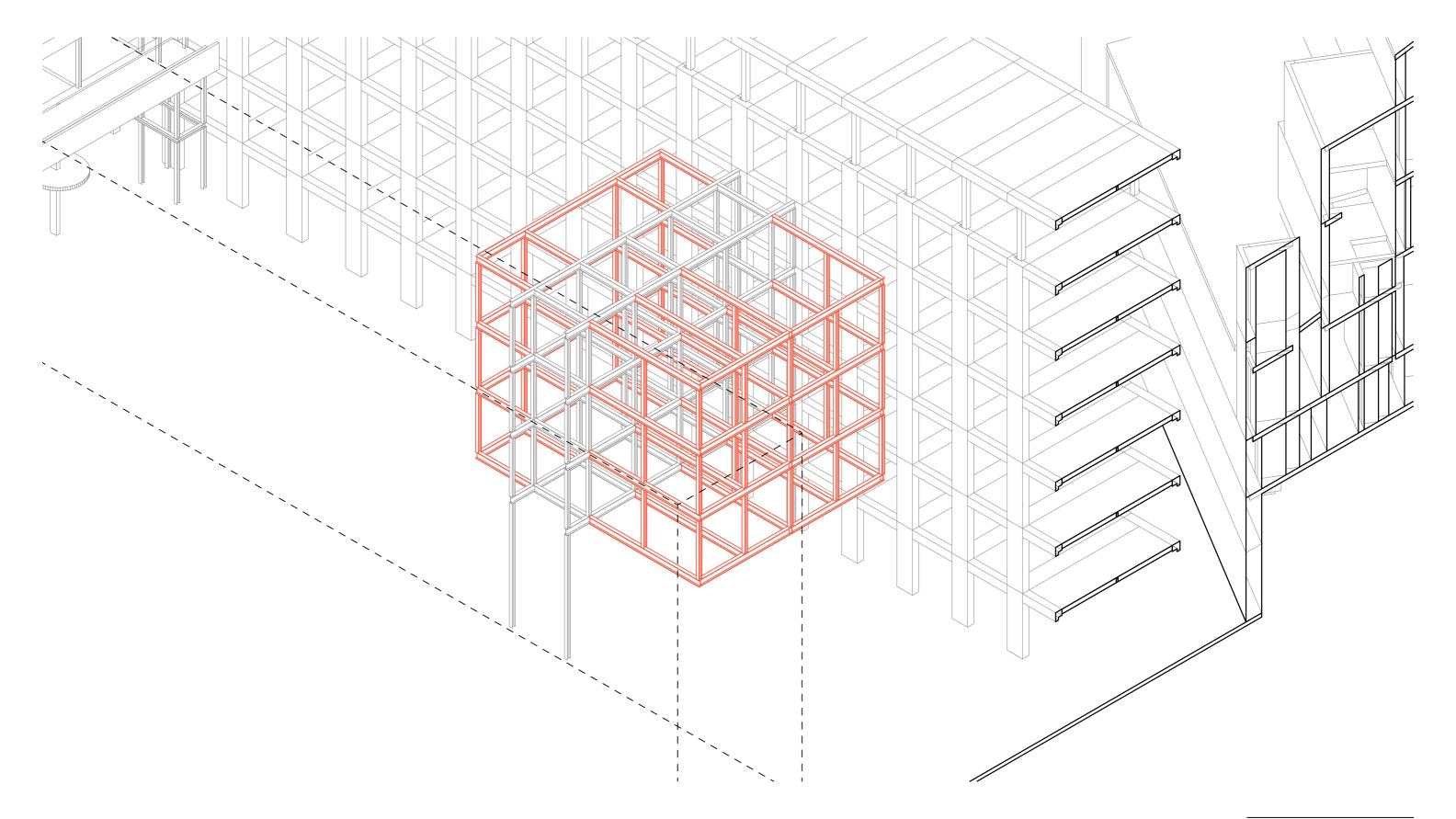
## **Design Proposal | Reformed Social Structure**



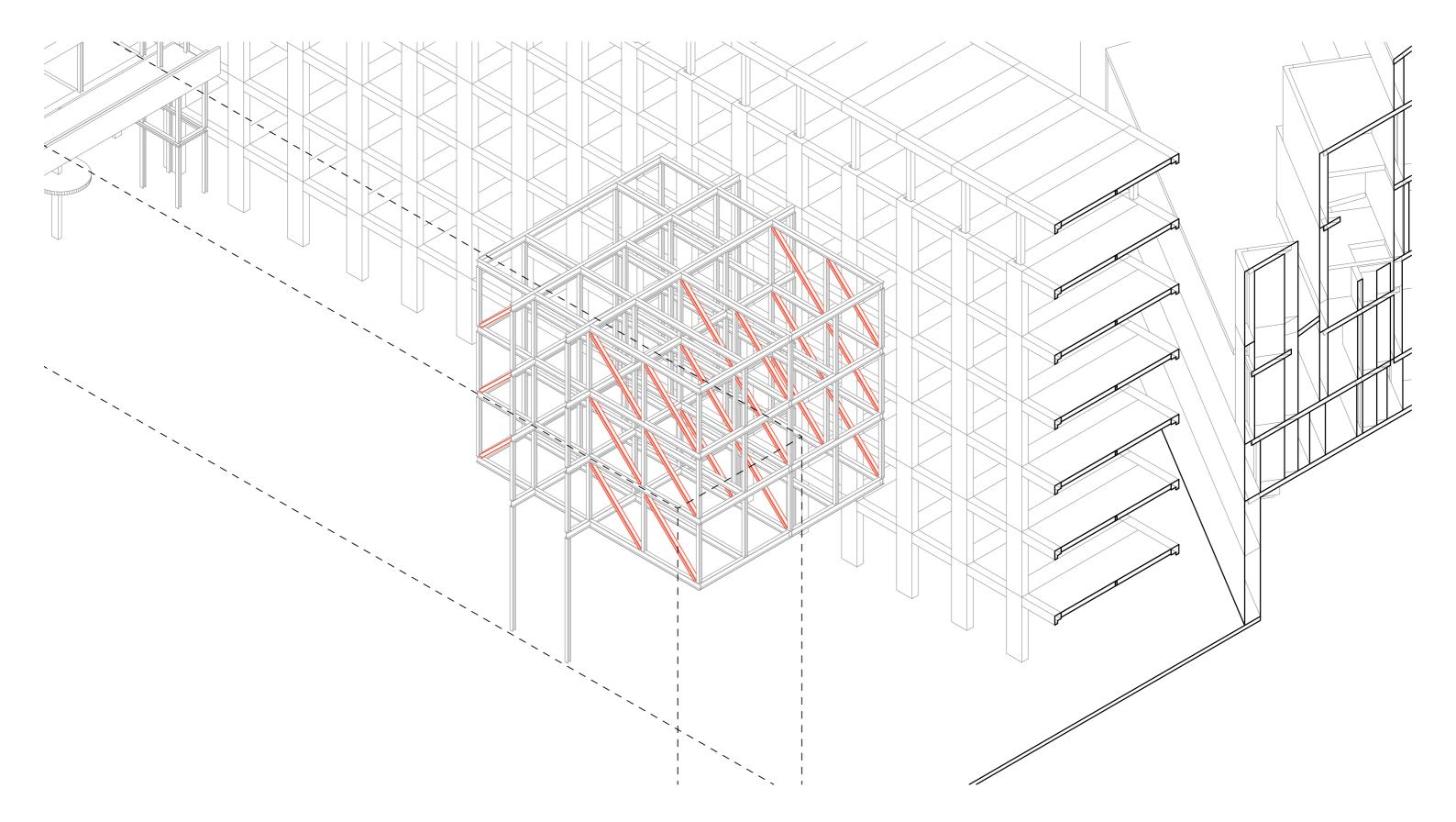
#### Render



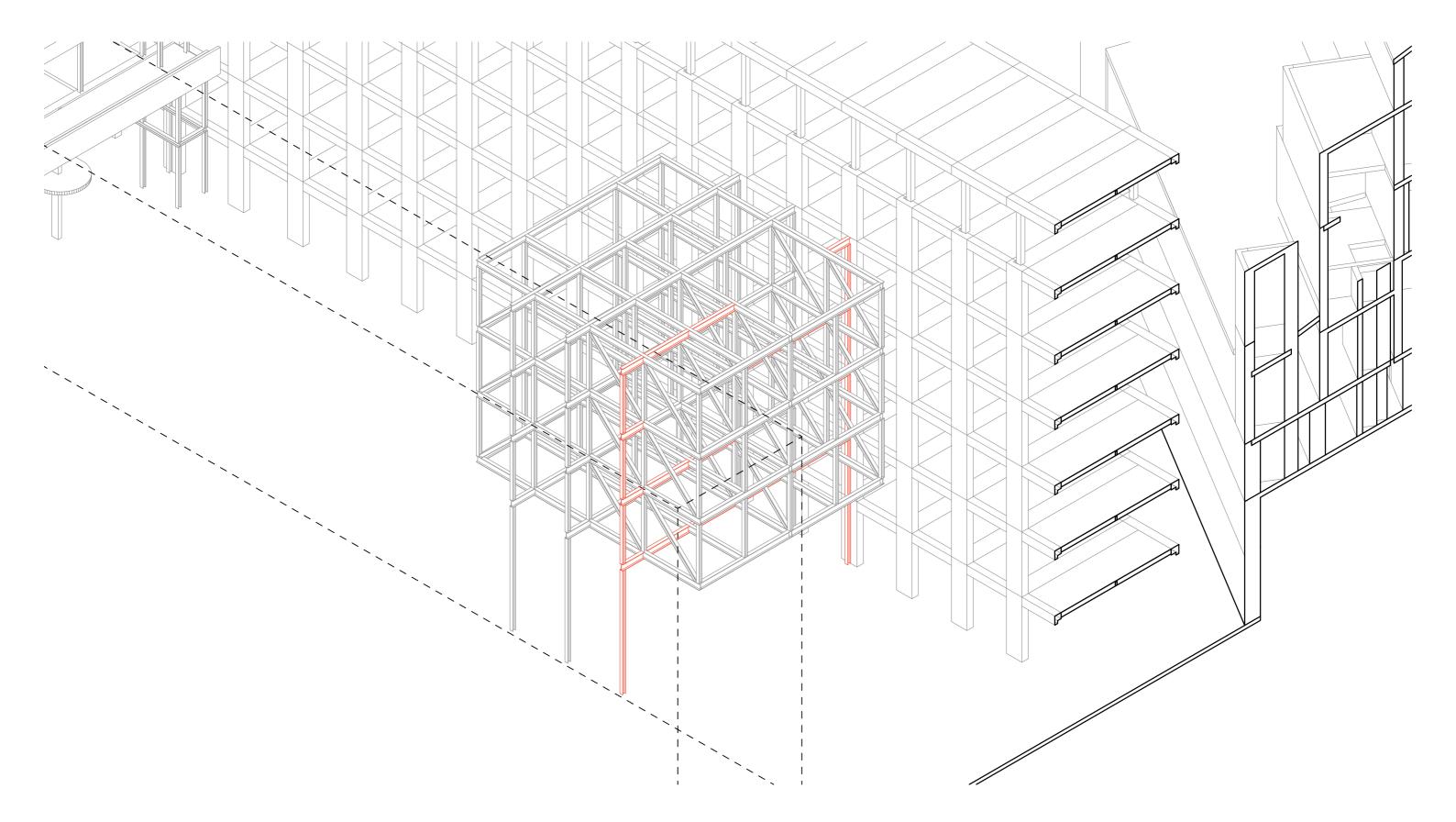
#### Section



#### Section

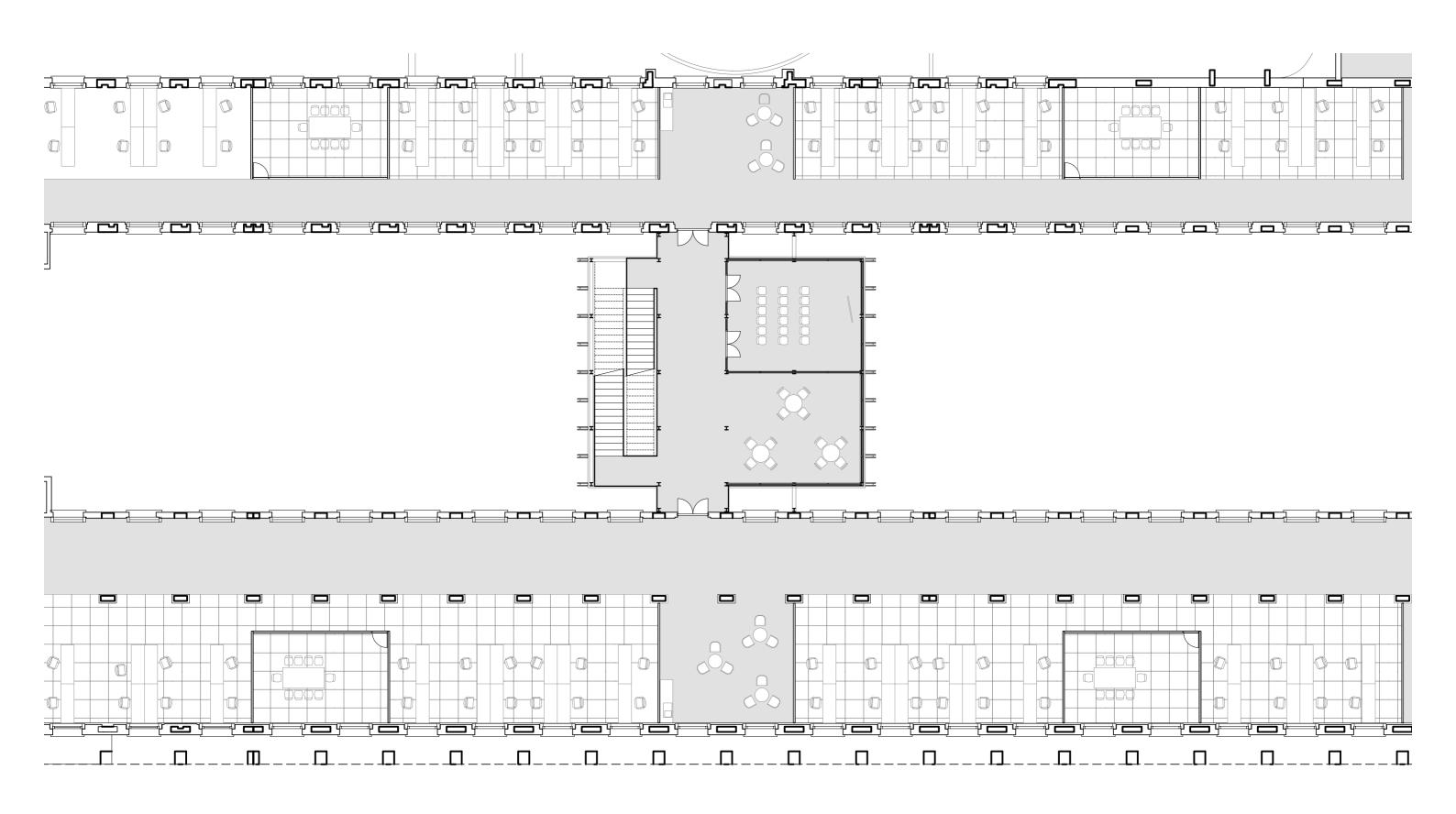


#### Section

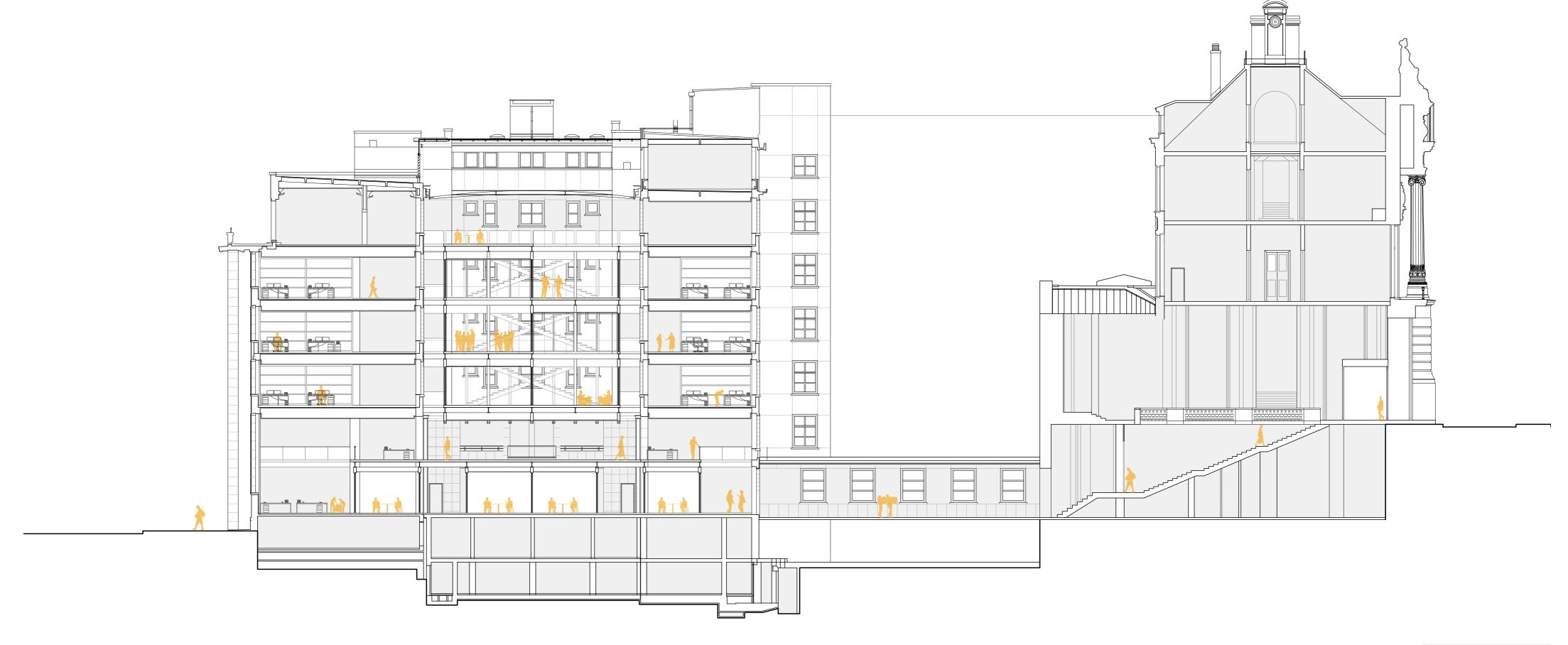


#### Section

### **Design Proposal | Dynamic Gathering Space**



## **Design Proposal | Dynamic Gathering Space**





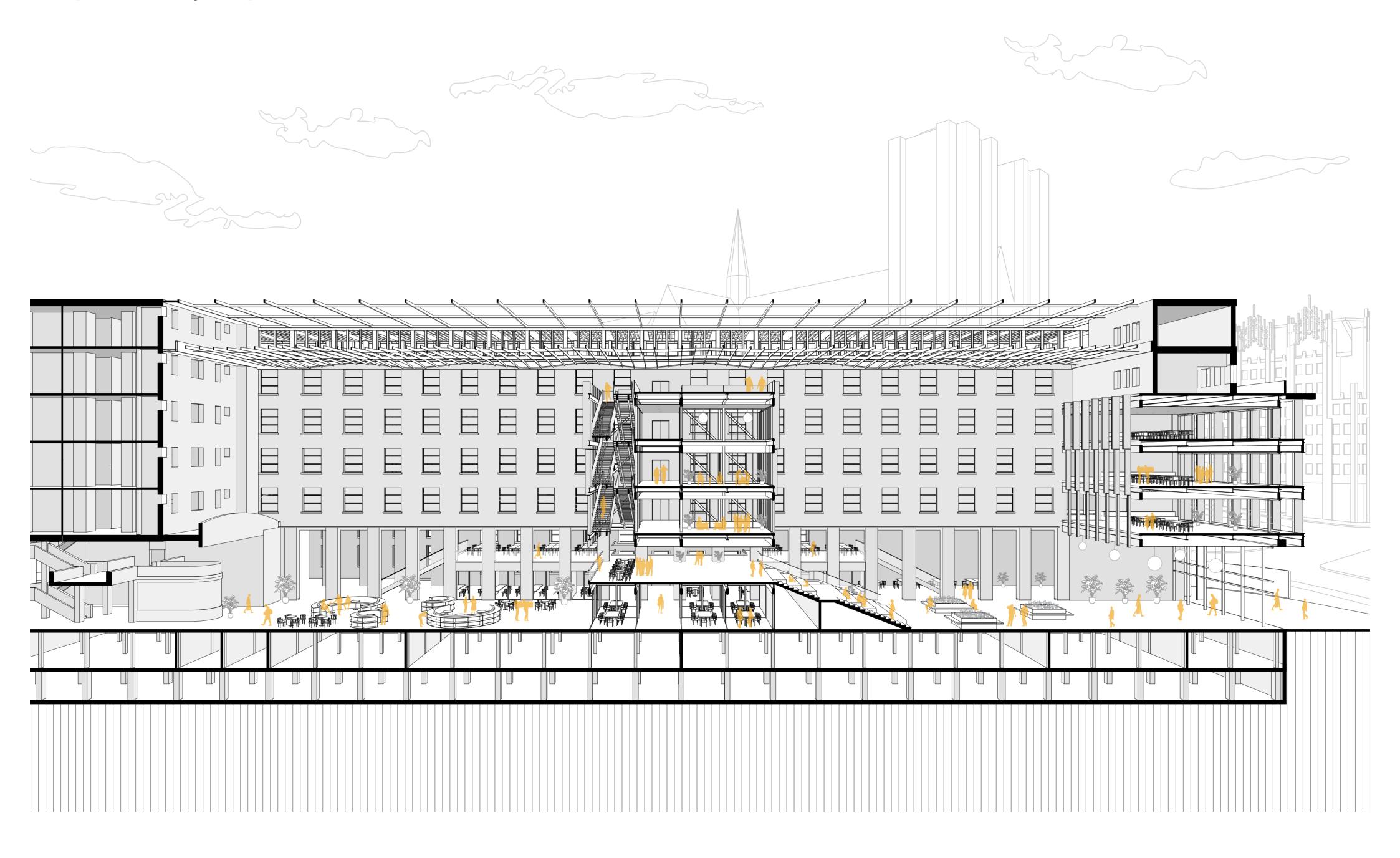
#### Section

## **Design Proposal | Gathering Space**

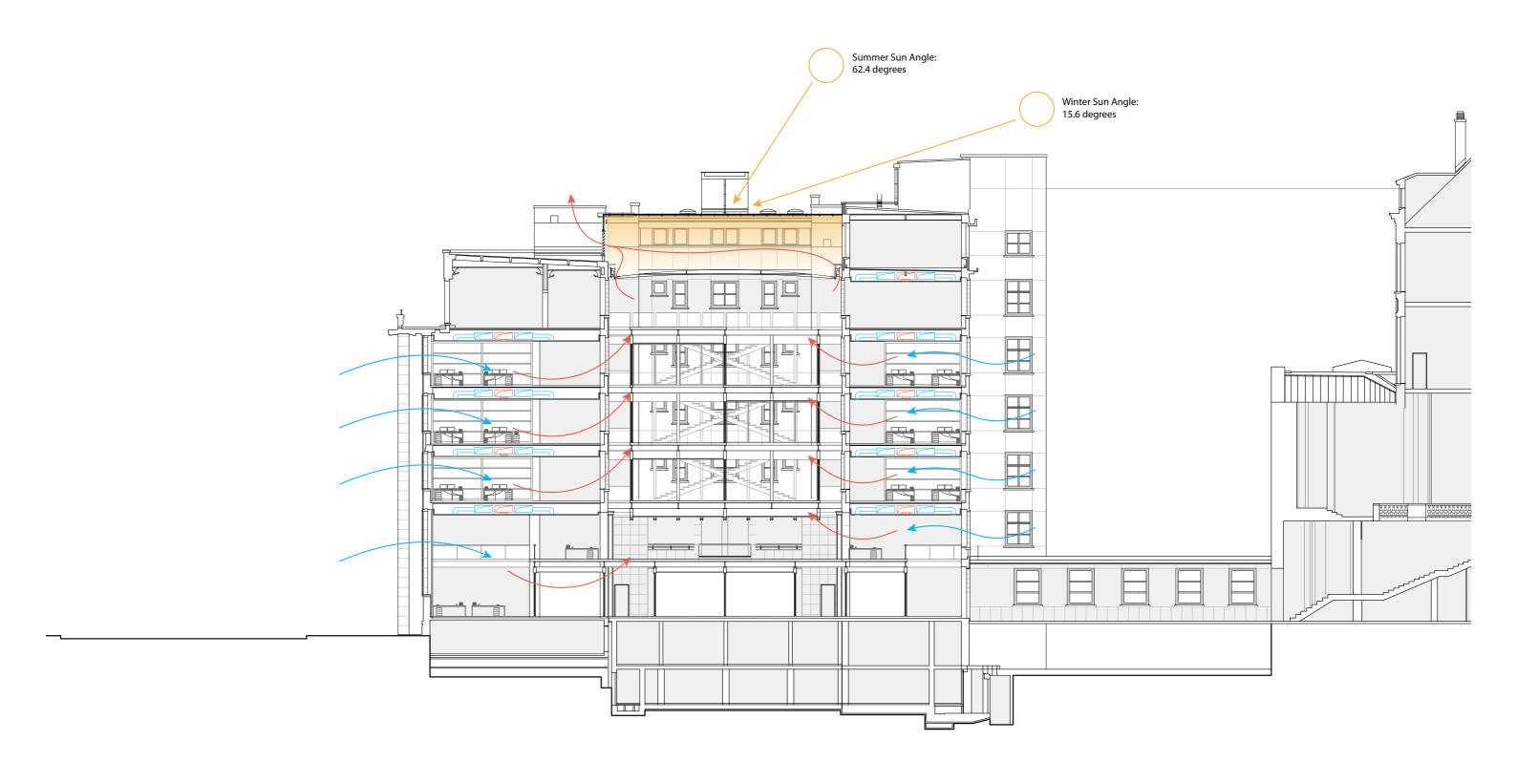


#### Render

Second Floor National Bank of Belgium Brussels, Belgium



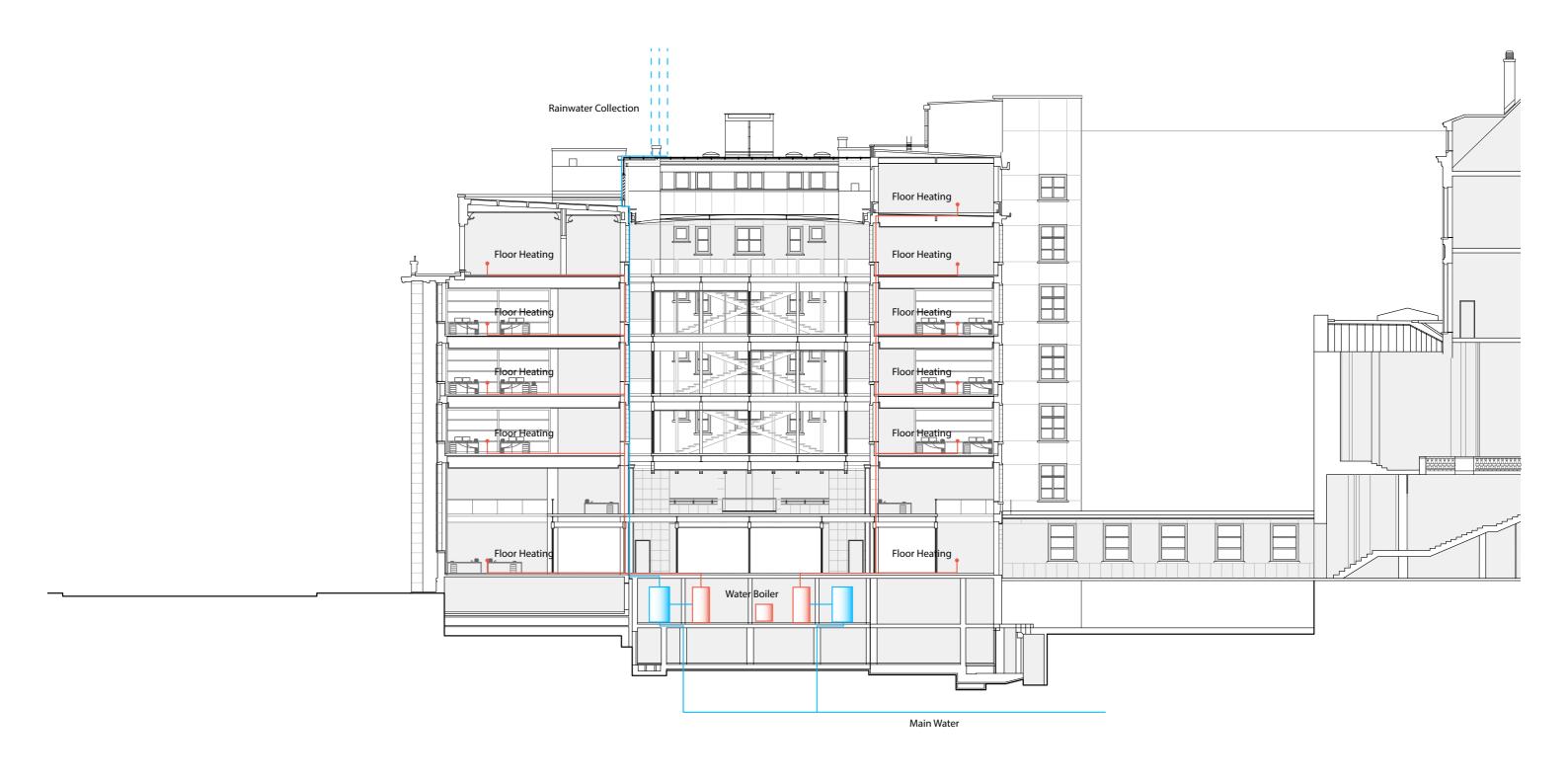
## **Design Proposal | Climatic Design**





#### **Sectional Perspective**

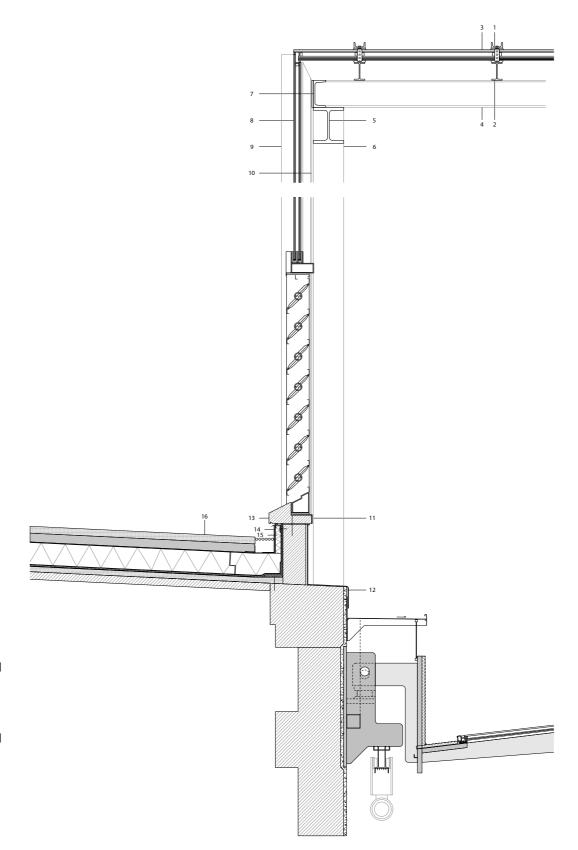
### **Design Proposal | Climatic Design**





#### **Sectional Perspective**

### **Design Proposal | Roof Details**



- 1 Patent glazing cap
- 2 Glazing bar
- 3 Insulating glass: tough + lam. safety
- 4 Beam
- 5 Beam
- 6 Column
- 7 Steel channel edge rail
- 8 Insulating glass: tough + lam. safety
- 9 Patent glazing cap
- 10 Glazing Bar
- 11 Sheet metal sill
- 12 Flat metal cladding

- 13 Precast concrete coping
- 14 Sheet metal skirting
- 15 Extruded polystyrene (XPS) board
- 16 Concrete flags
  - Chippings
  - Filter fleece

Extruded polystyrene (XPS) board

Separating membrane

Synthetic waterproofing

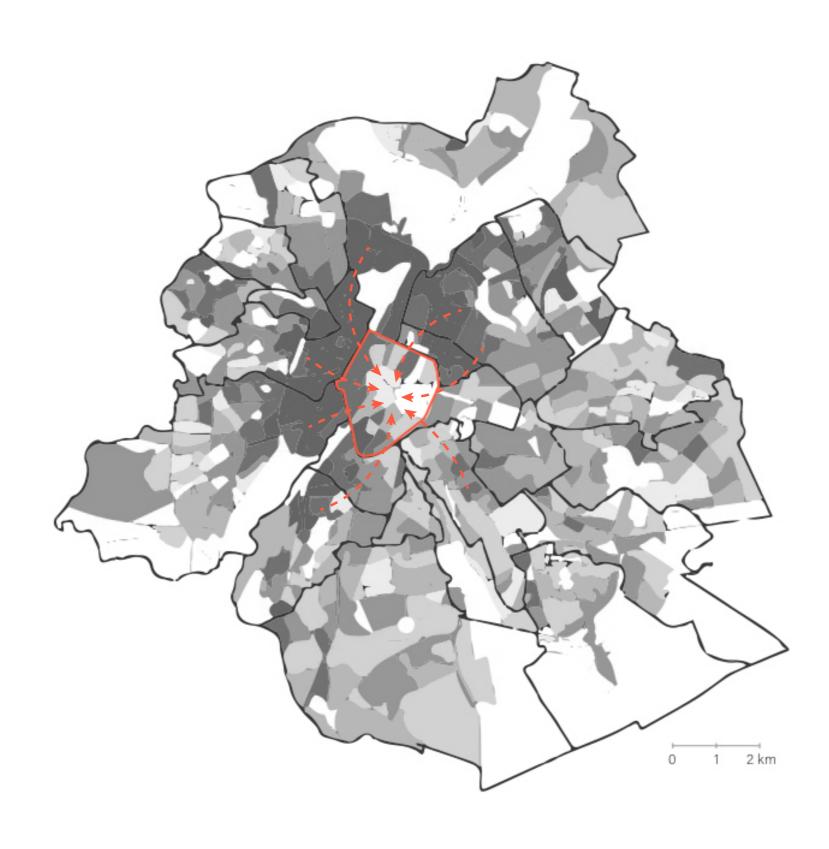
Protective membrane

Screed laid to falls

#### Details

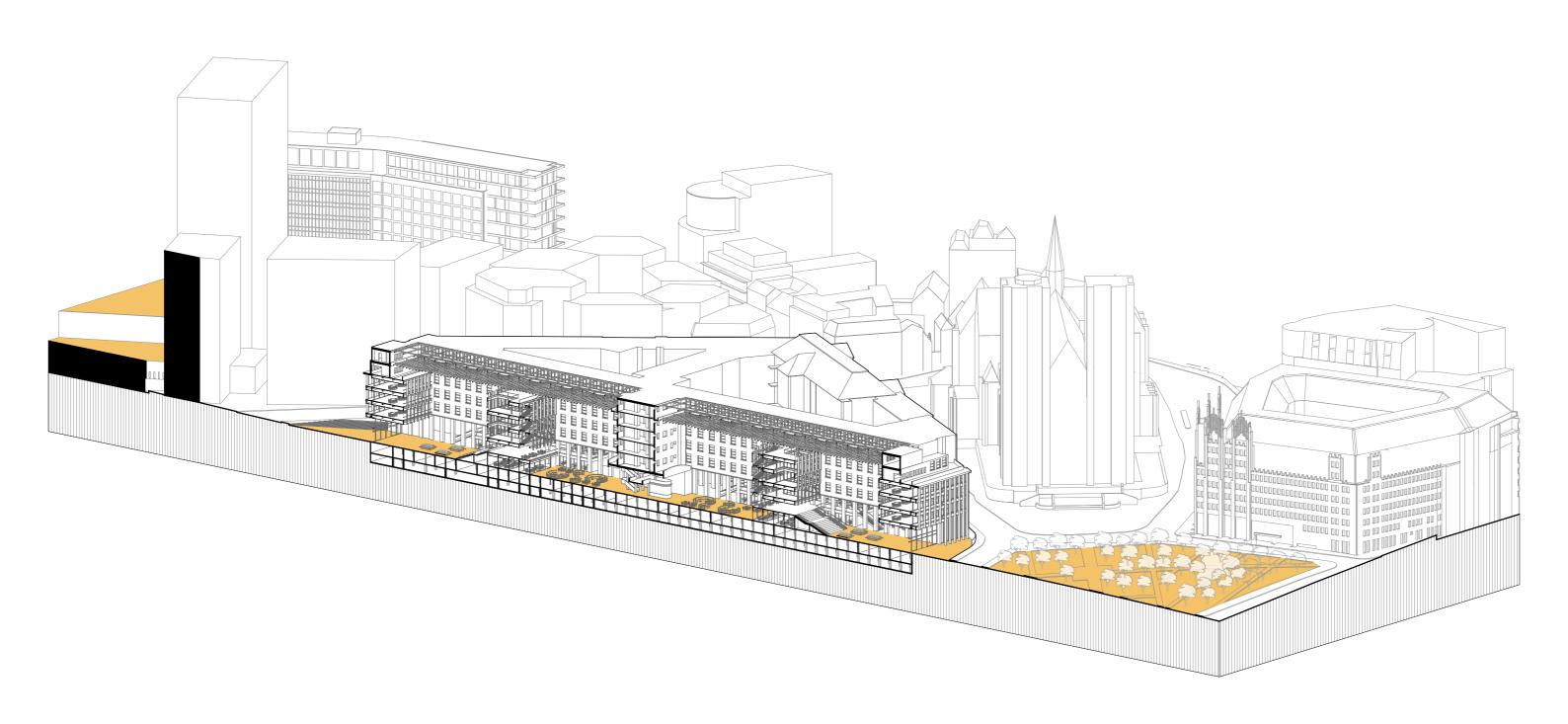
## City

- Establish a role model to revitalize the Brussels



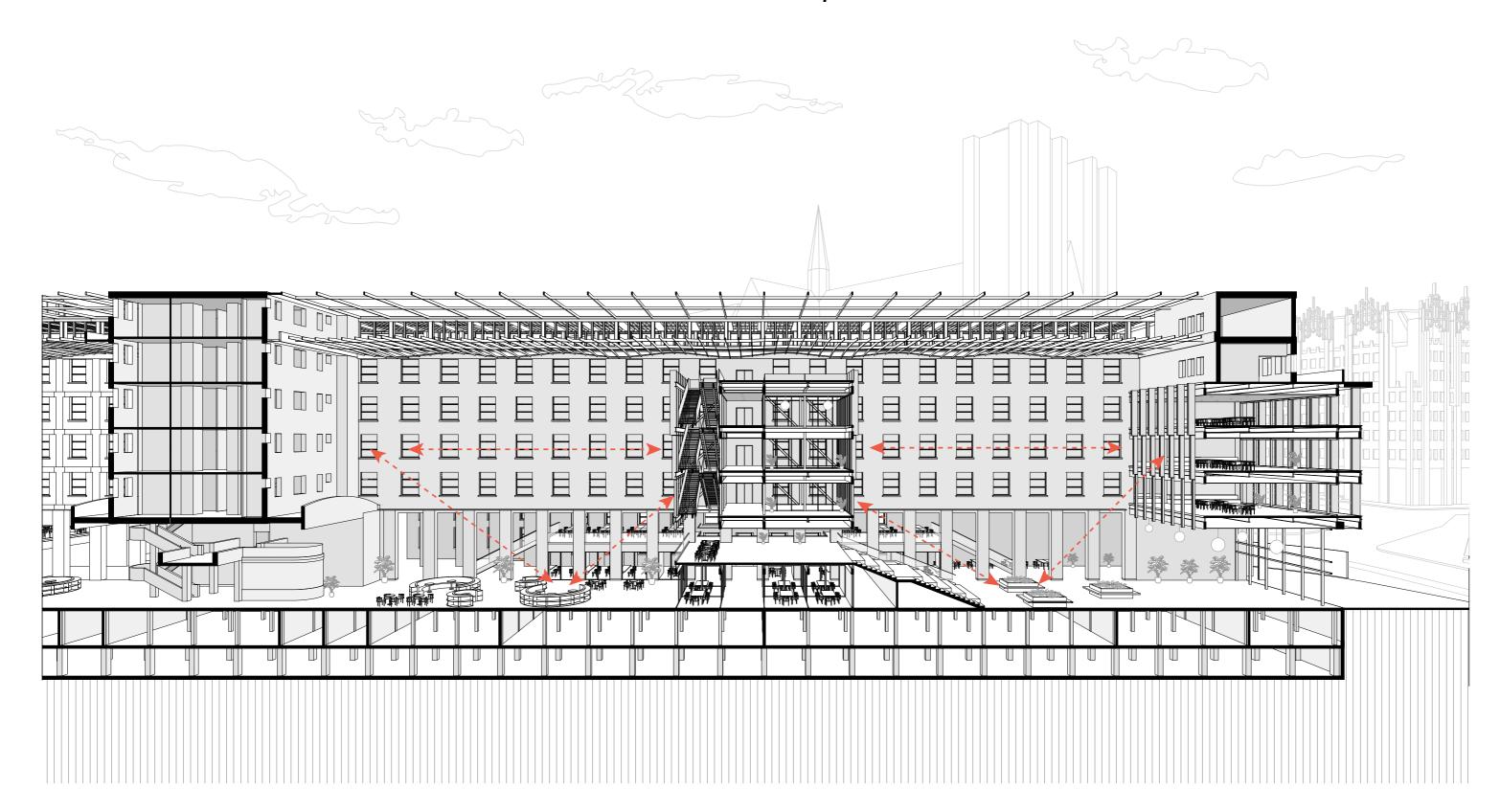
## **Building**

- Social plinth to link up the neighbourhood



### Interior

- Reform the social relation between the bank and the public



### Interior

- Reconstruct the social structure within the bank

