

# IN 2050...

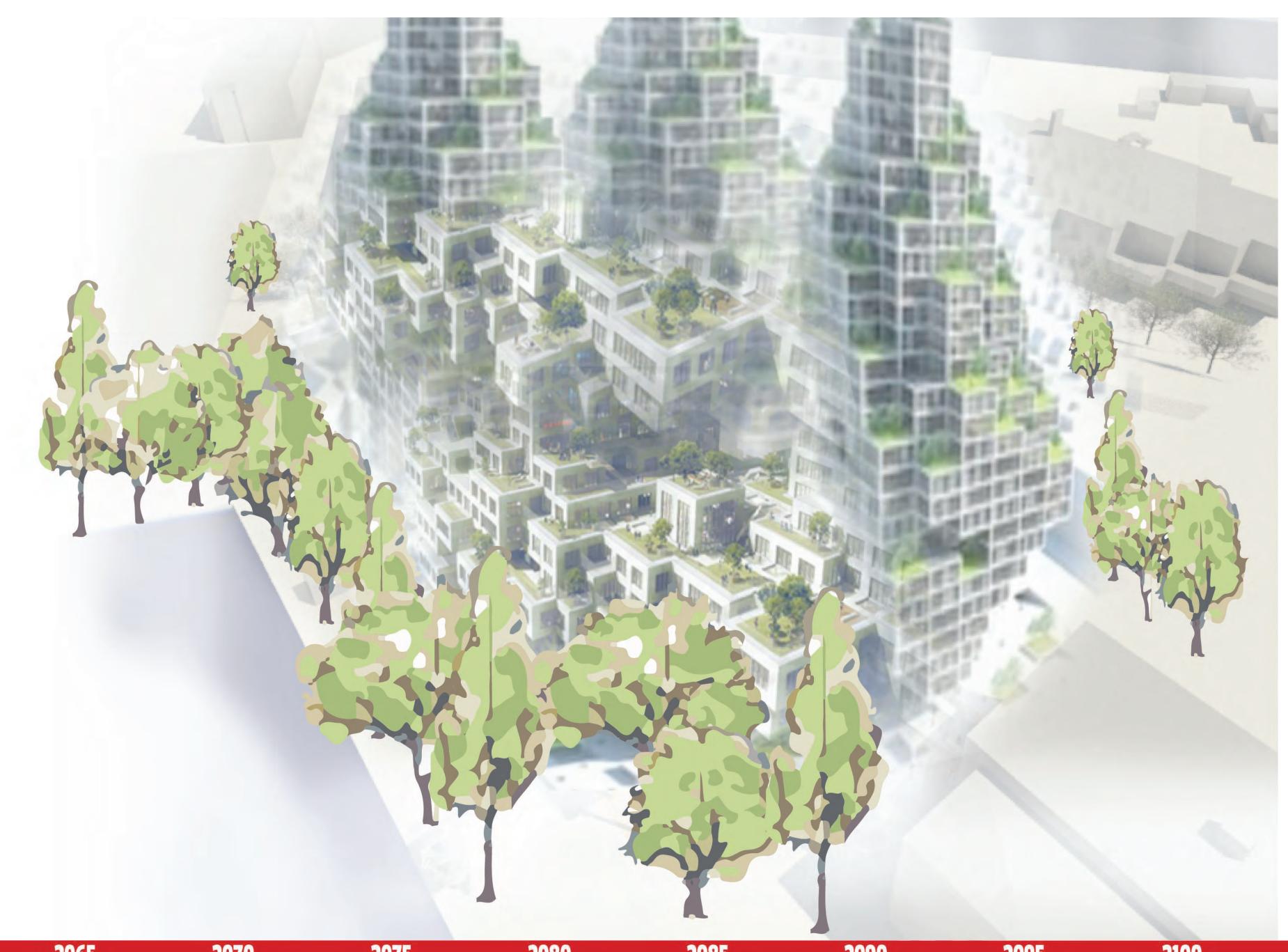
Or stacking



2050 2055 2060 2065 2070 2075 2080 2085 2090 2095 2100

# IN 2050...

Or MVRDV/BIG



2050 2055 2060 2065 2070 2075 2080 2085 2090 2095 2100

# BUT FIRST...



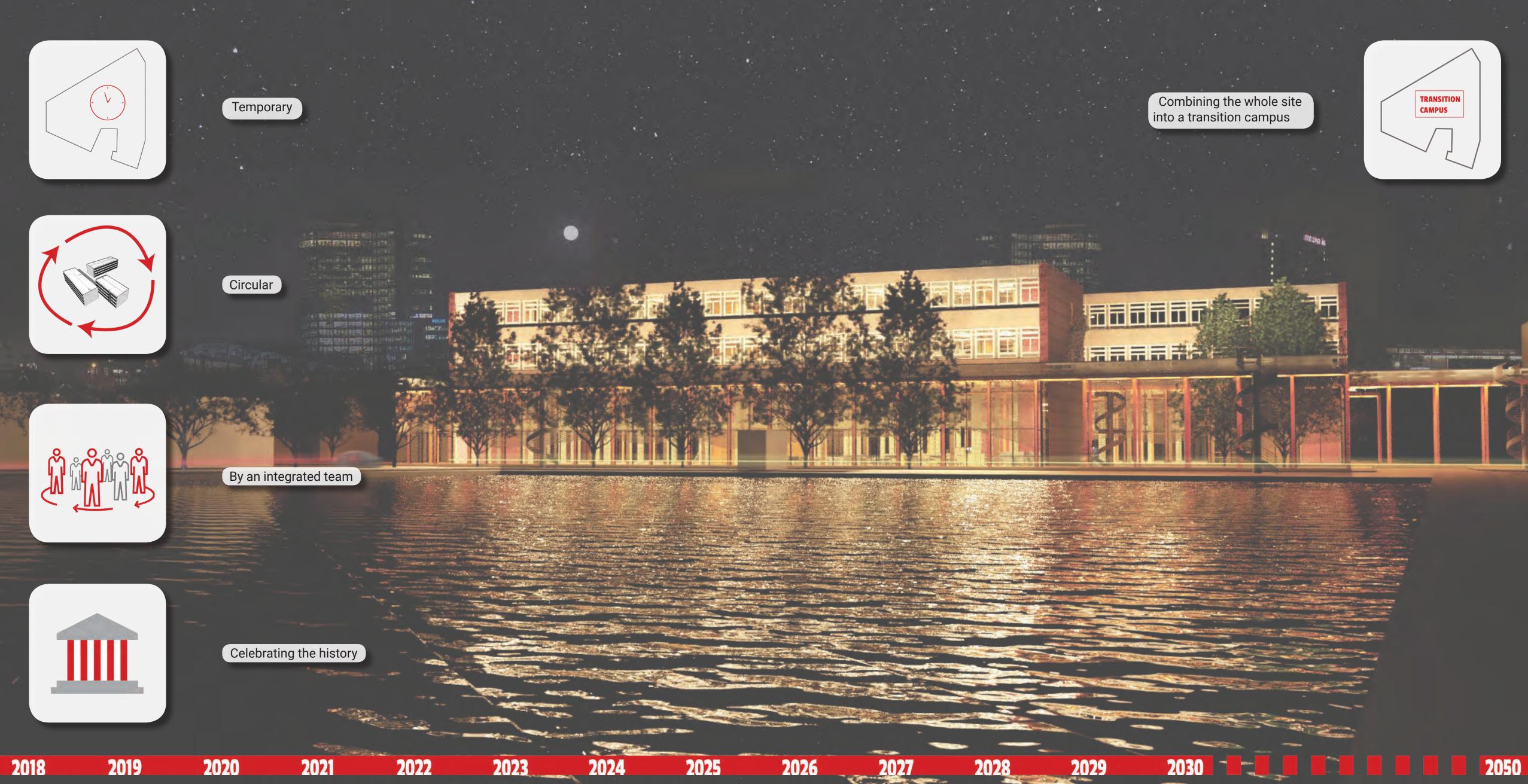


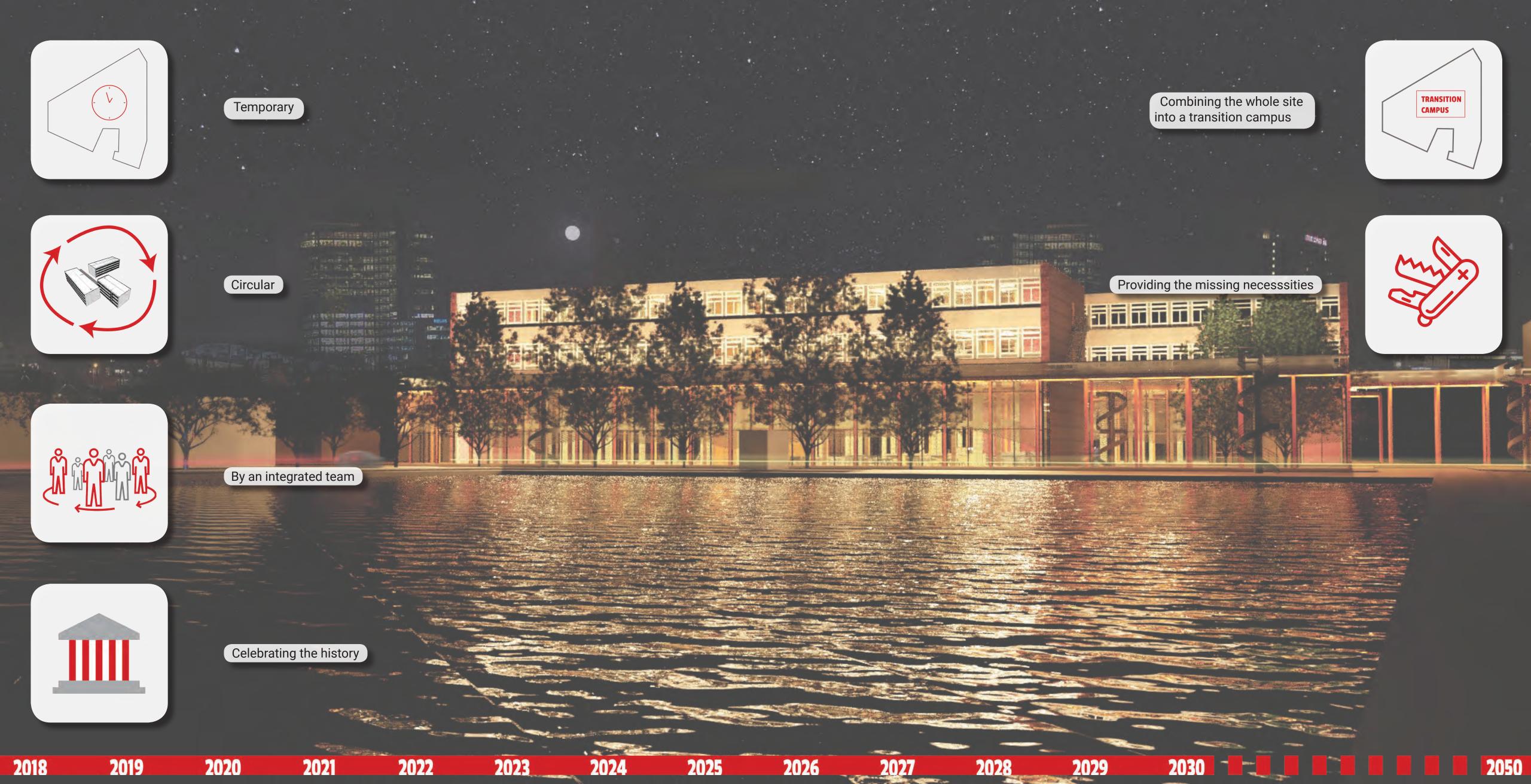
# PROPOSED SCENARIO Temporary

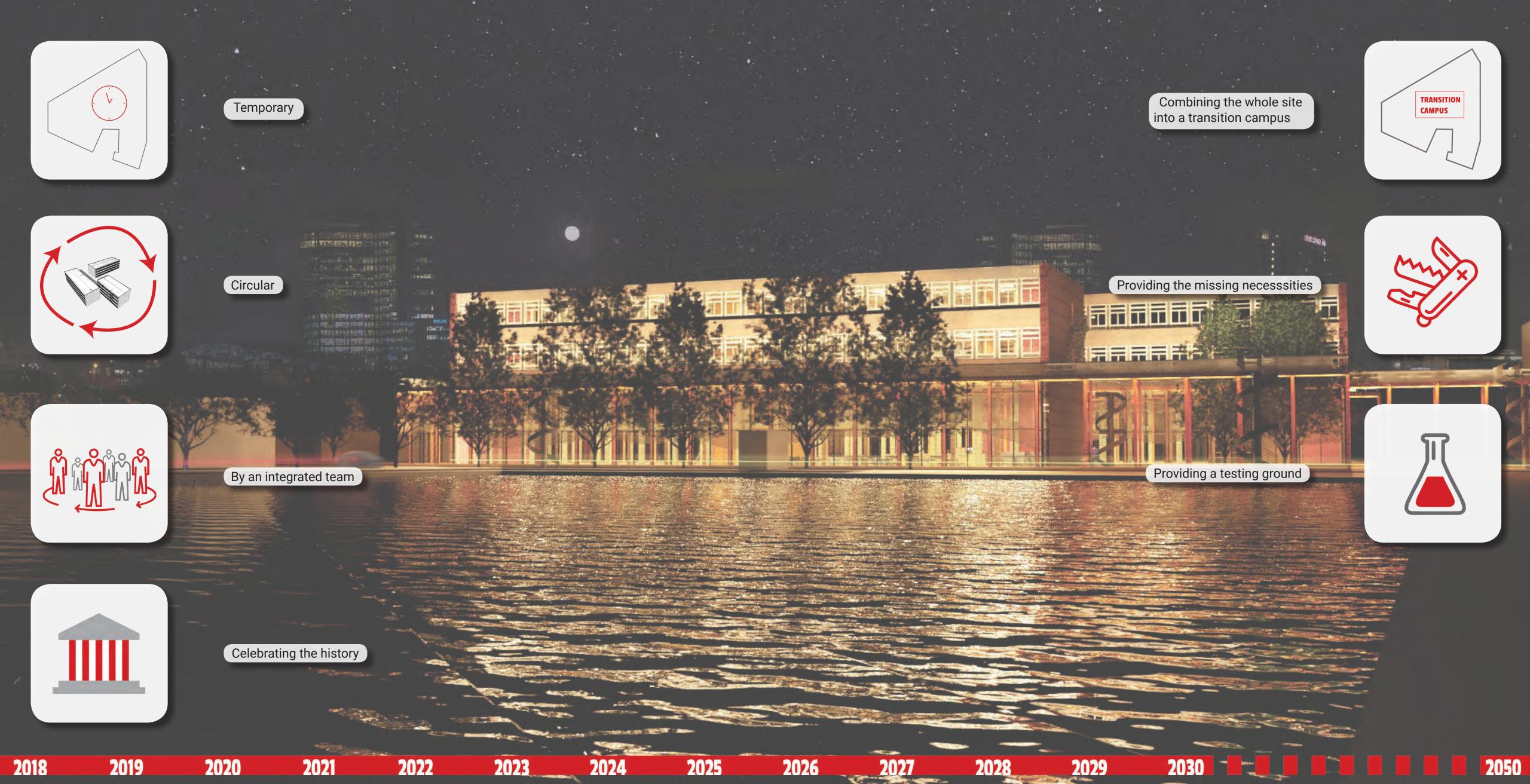


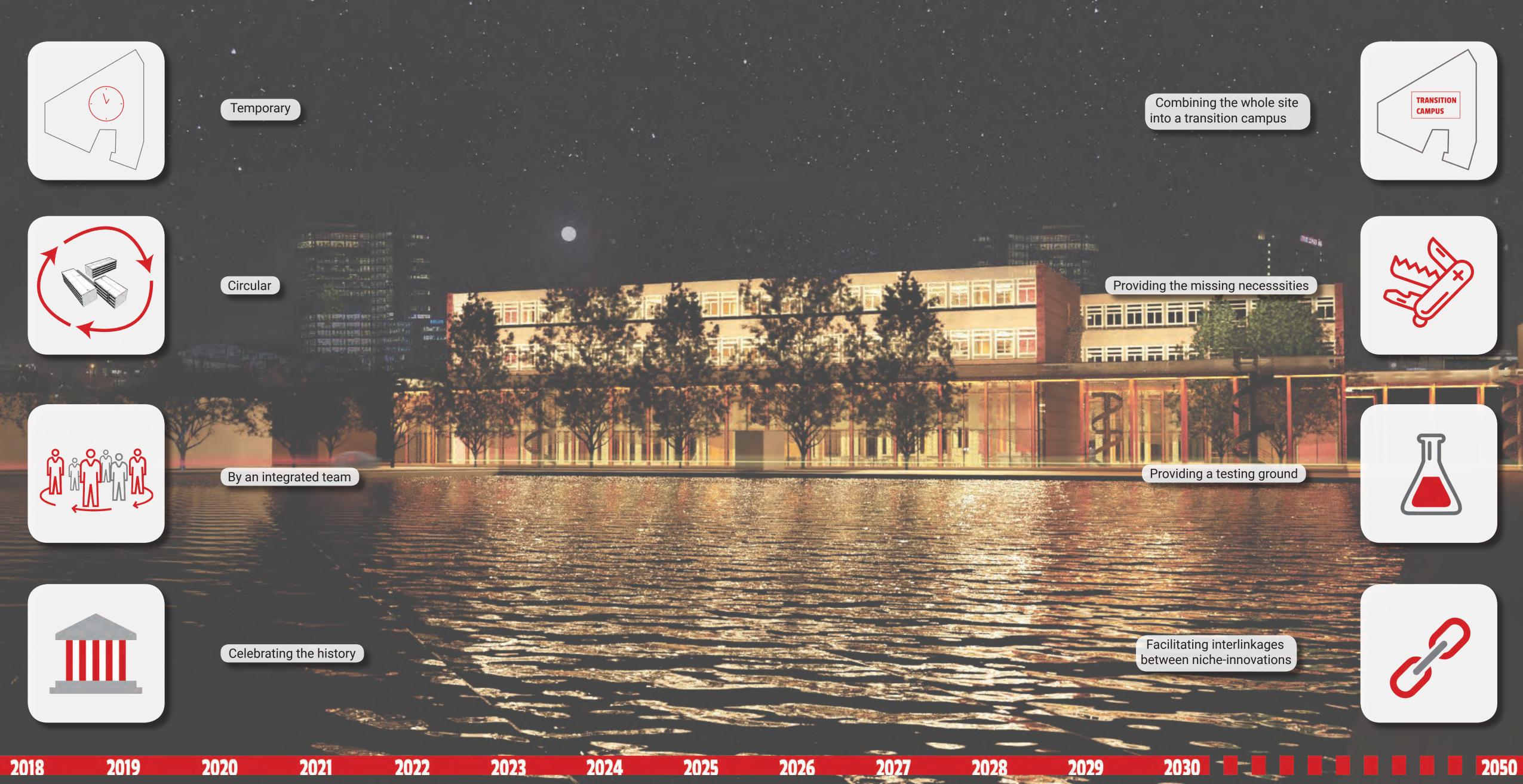




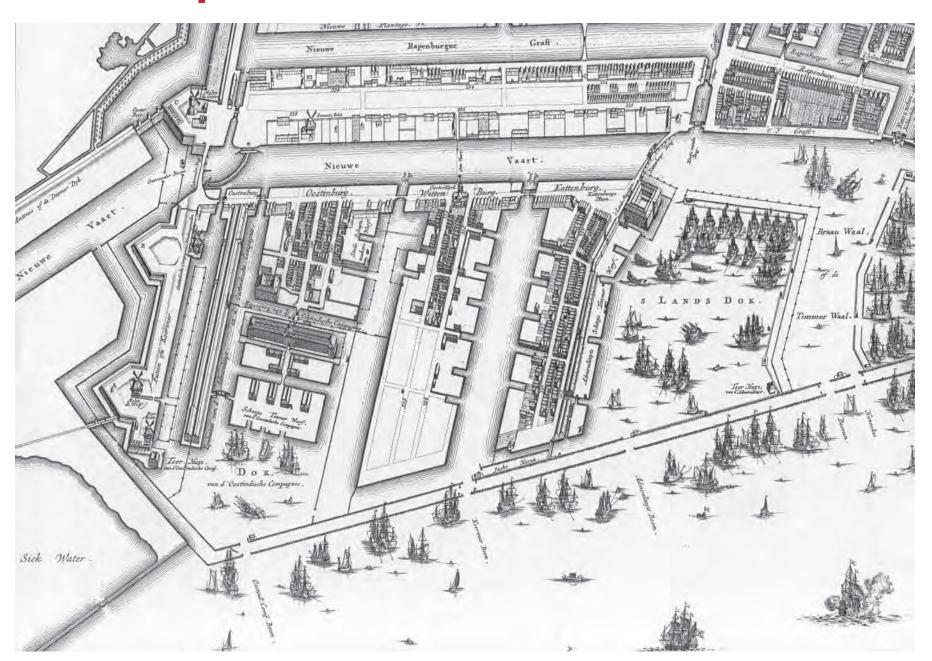




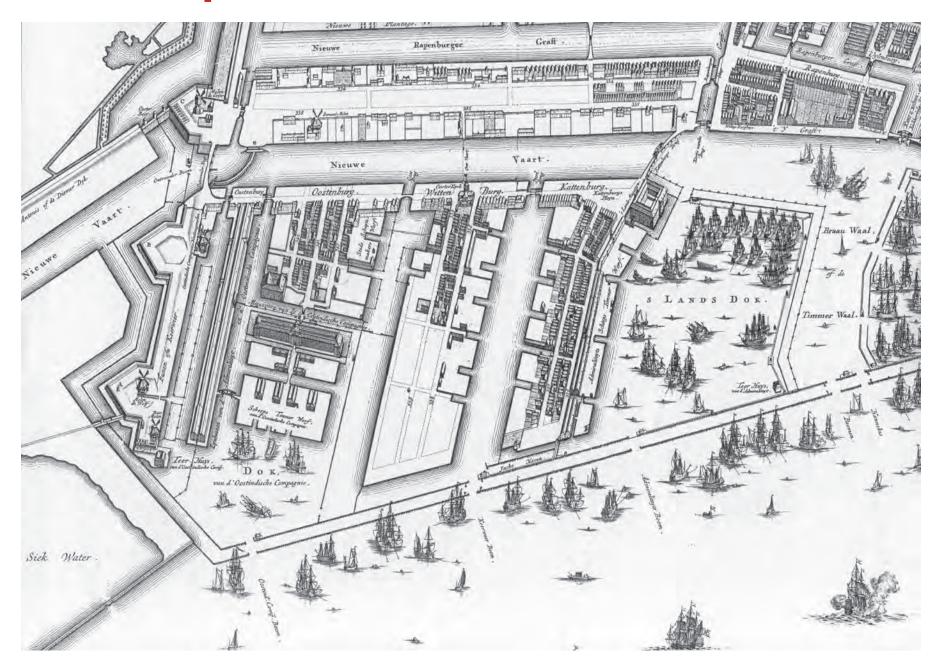




#### **History and development**

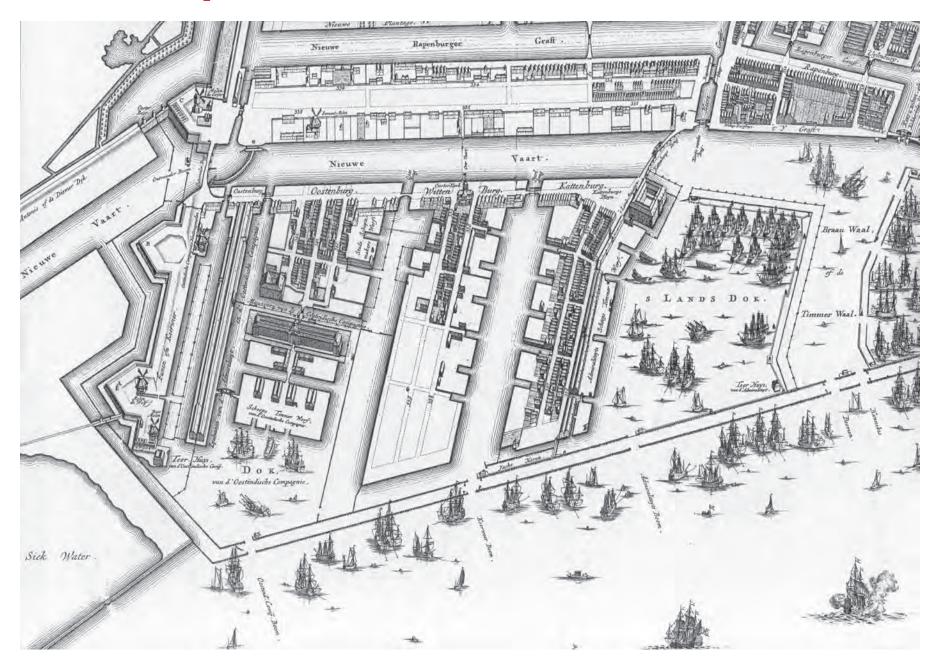


#### **History and development**

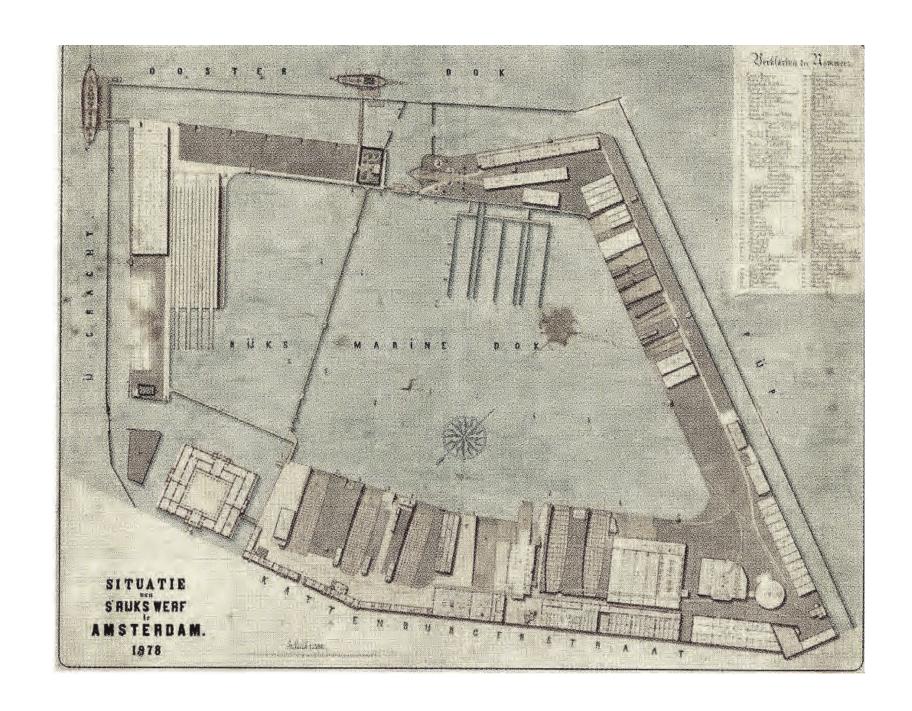




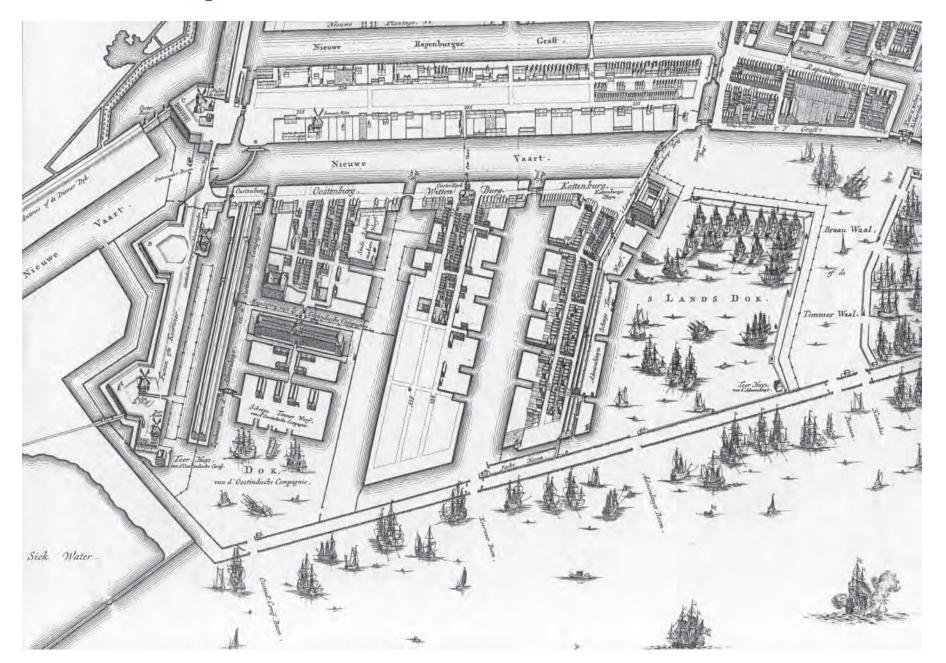
#### **History and development**



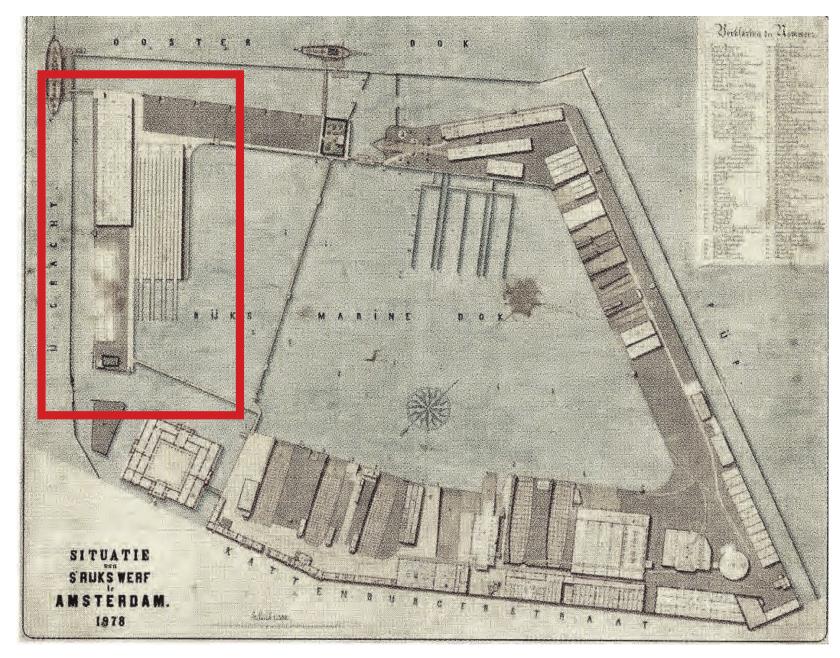


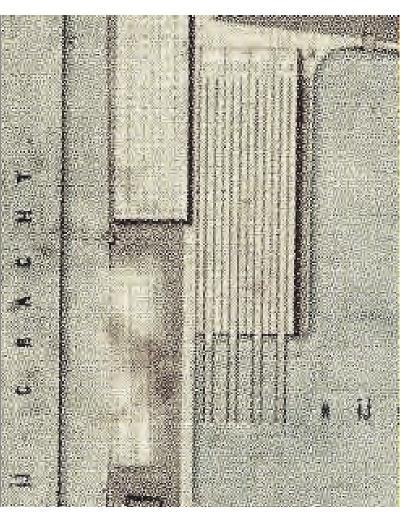


#### **History and development**

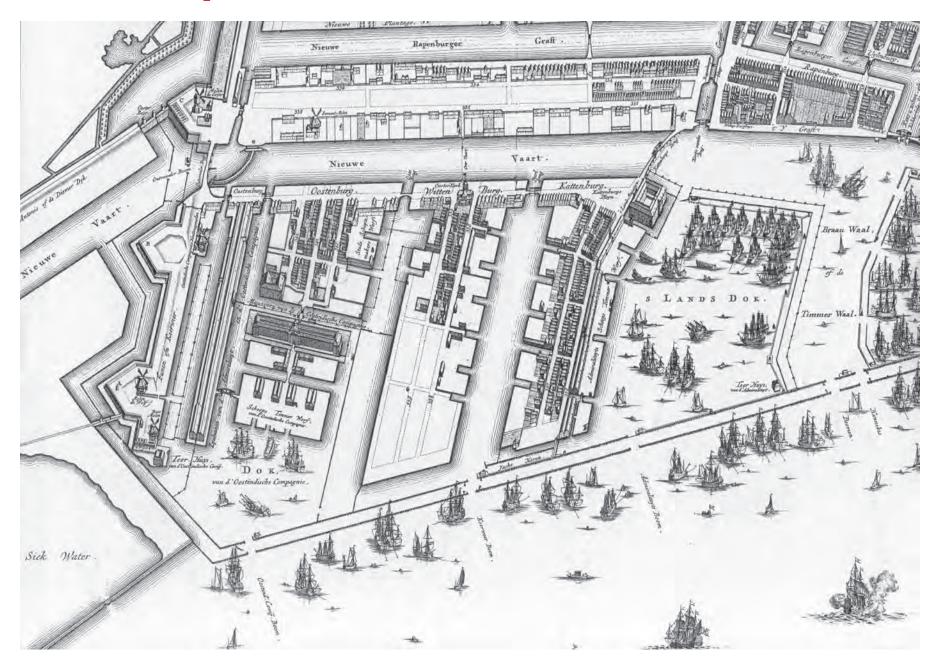




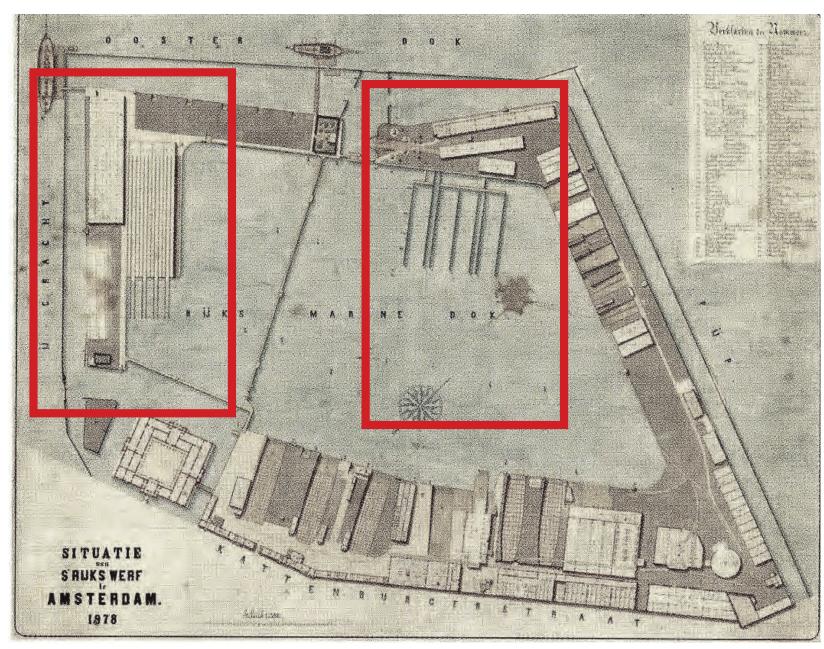


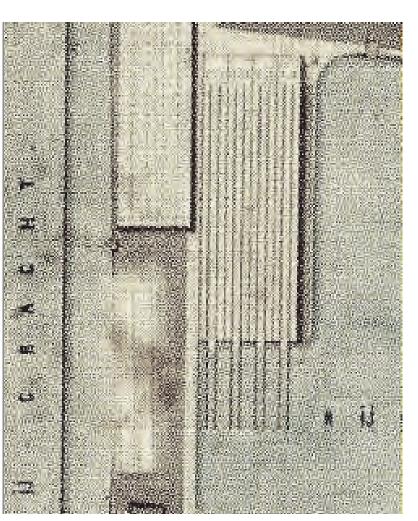


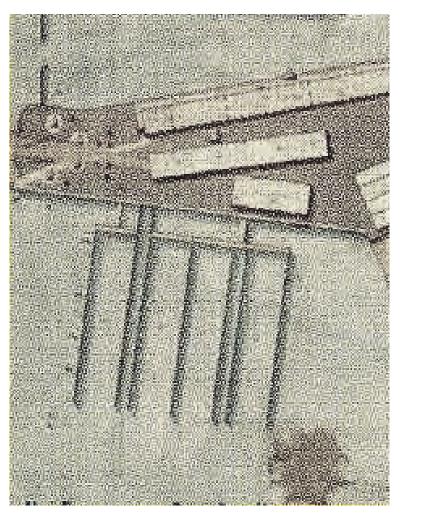
#### **History and development**







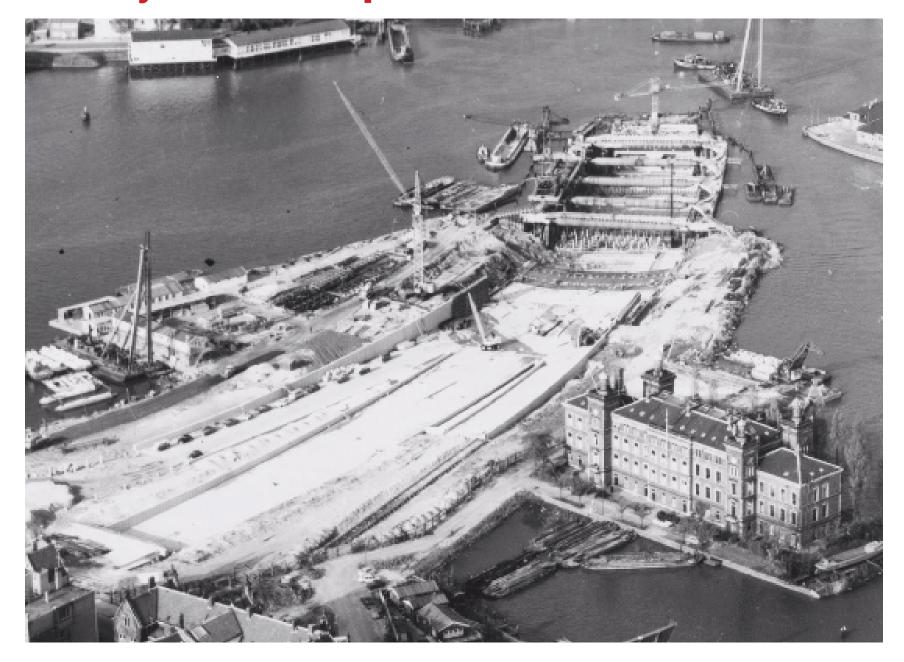




#### **History and development**



#### **History and development**

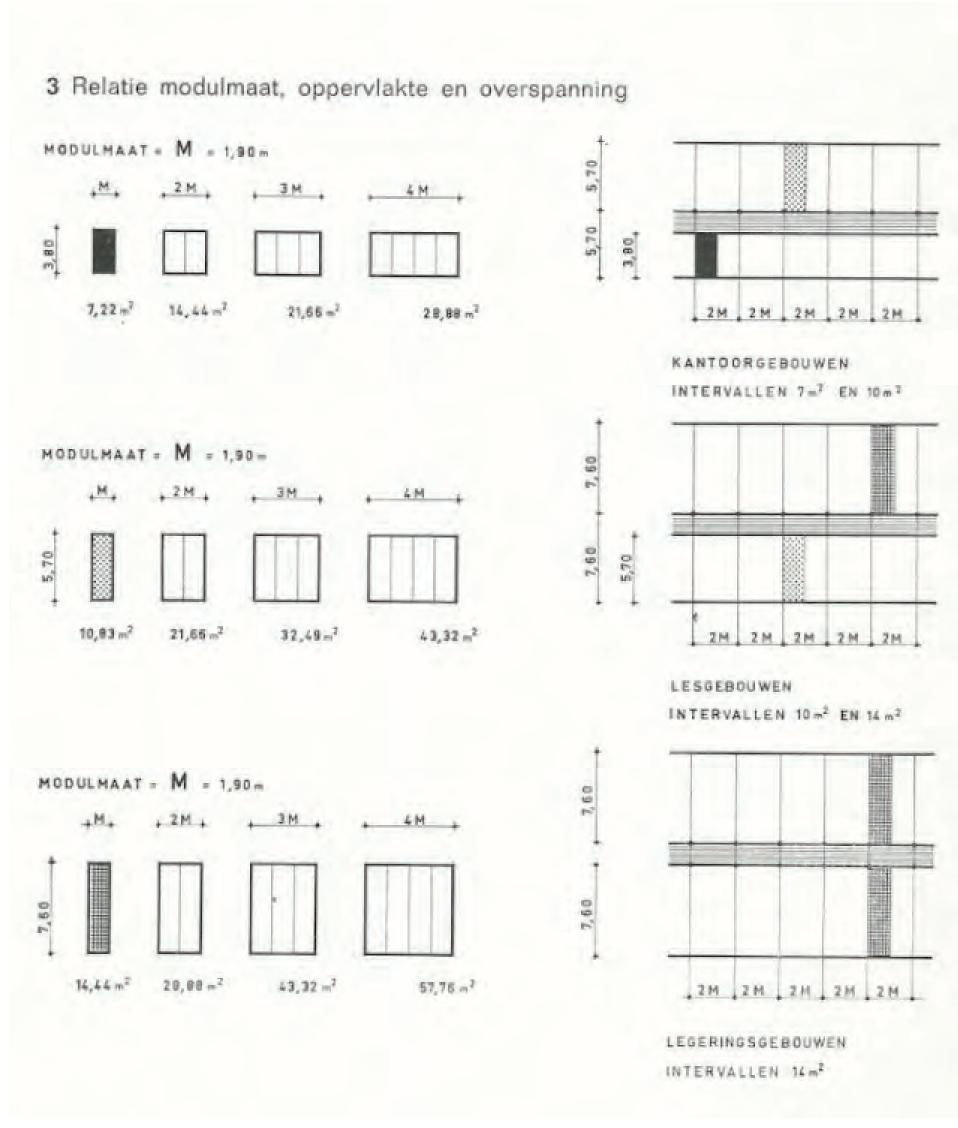




#### **History and development**



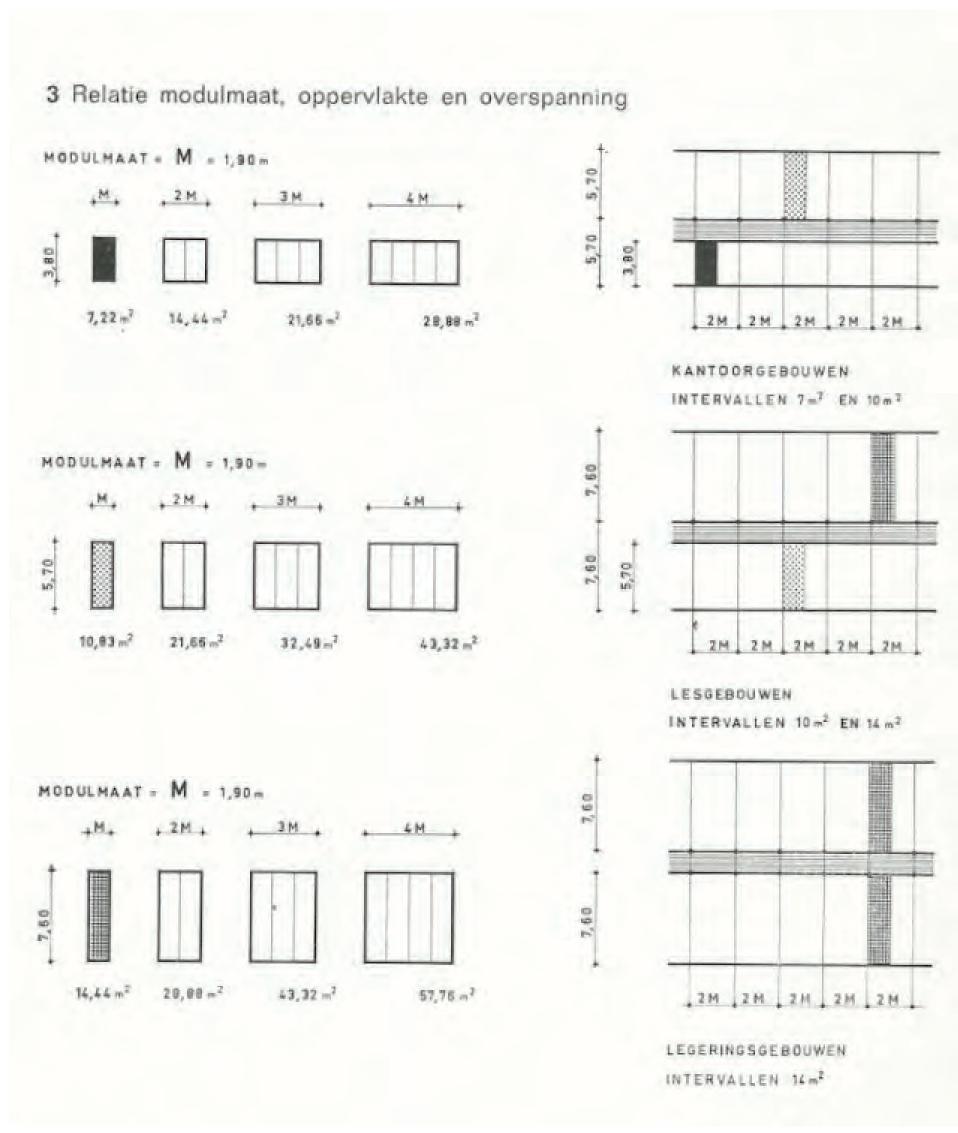


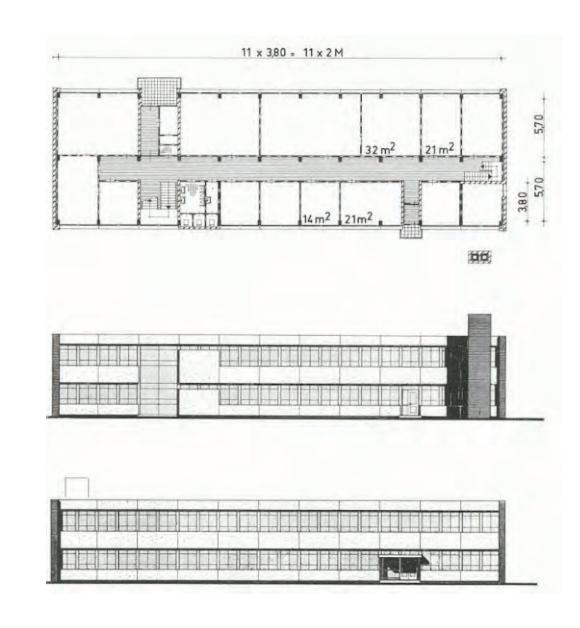


#### **History and development**









2030 2050

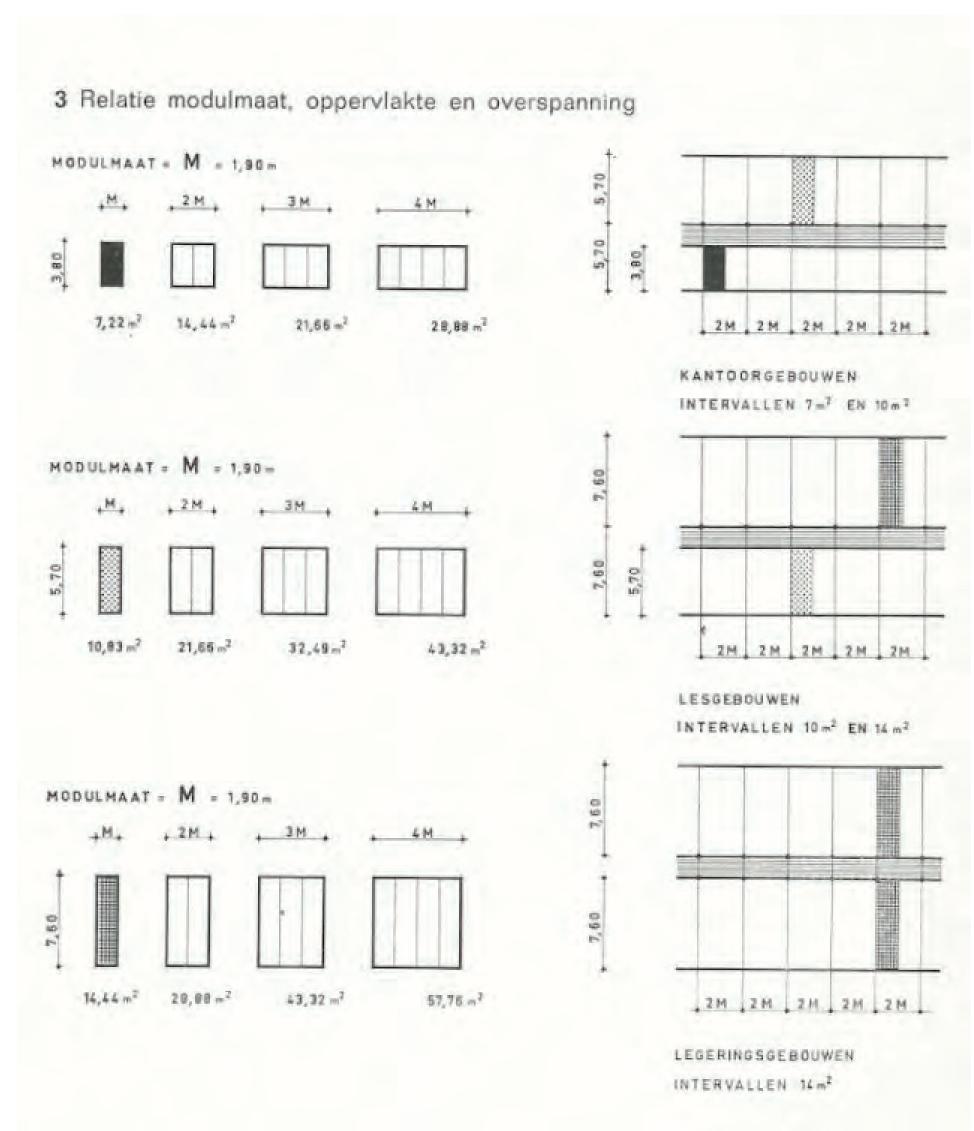
2029

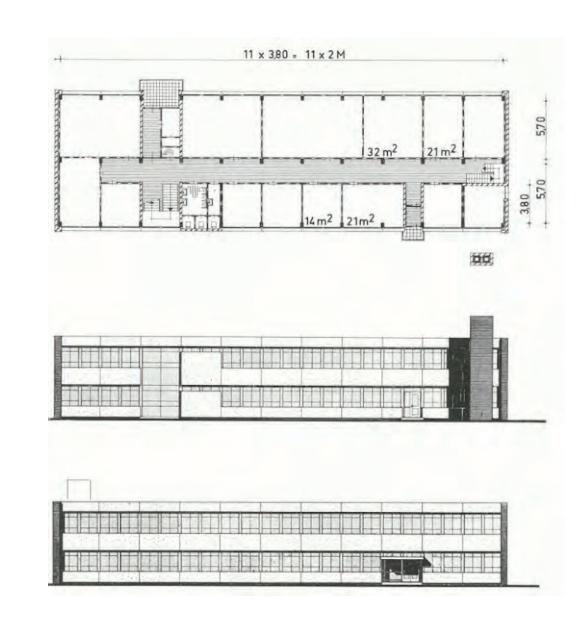
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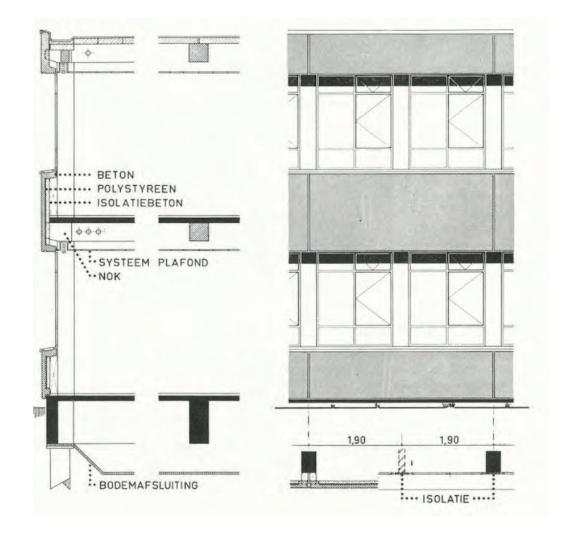
#### **History and development**



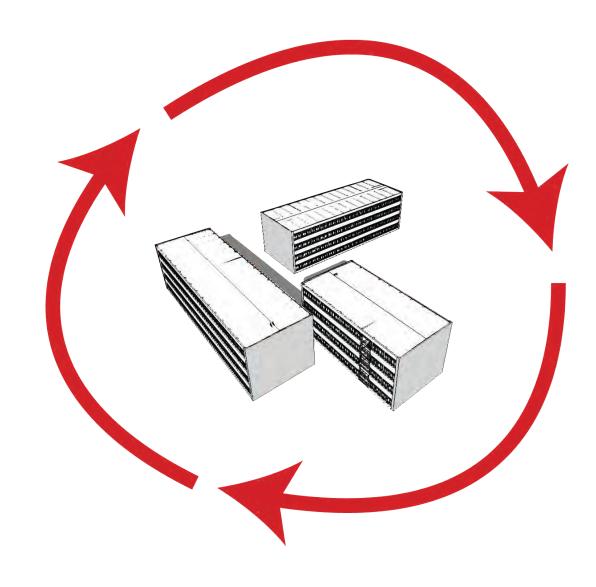












### THEORY

#### **Circularity - butterfly model**

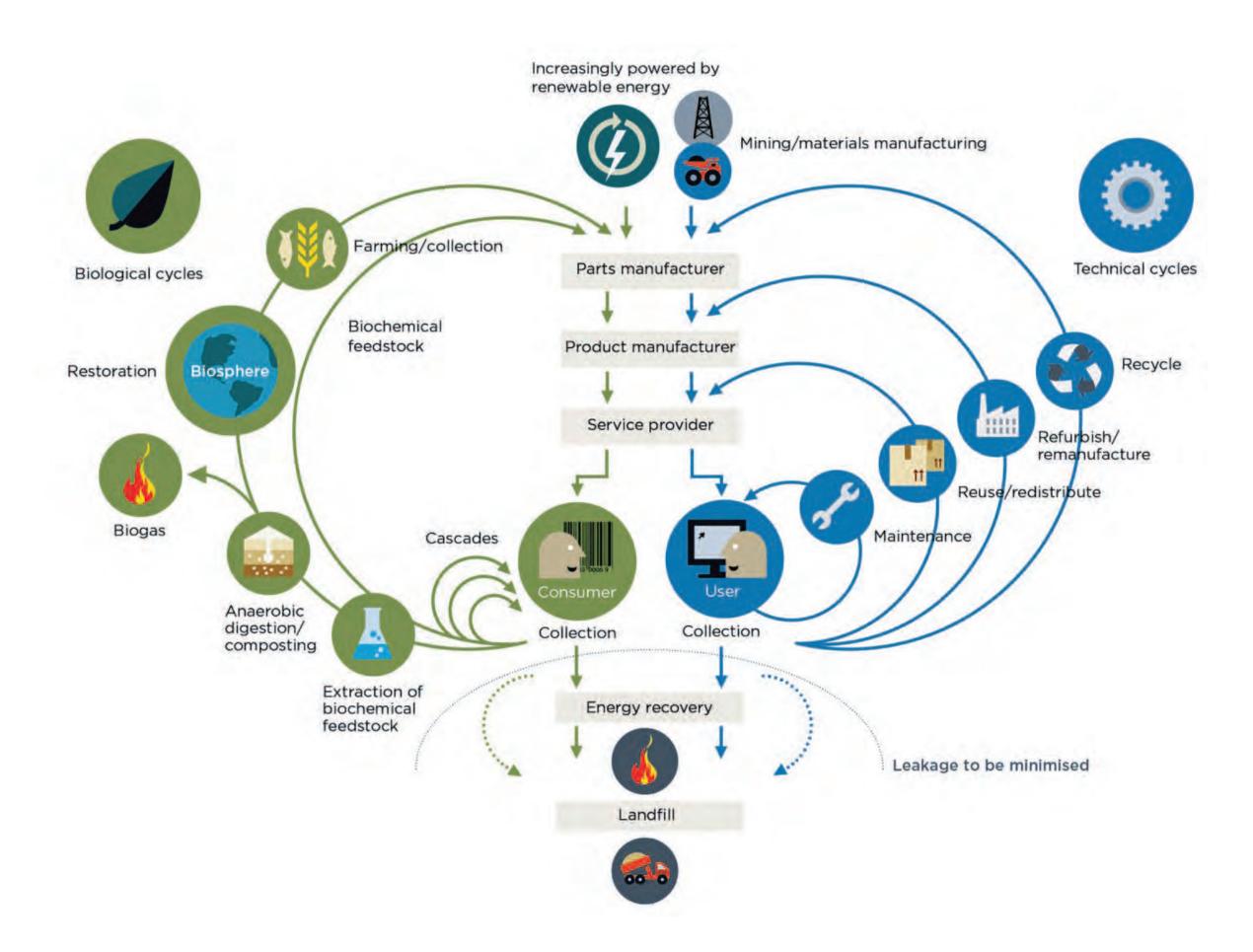


Illustration by: EMF, E. M. F. (2015). Towards a circular economy: business rationale for an accelarated transition.

### THEORY

#### **Transitions**

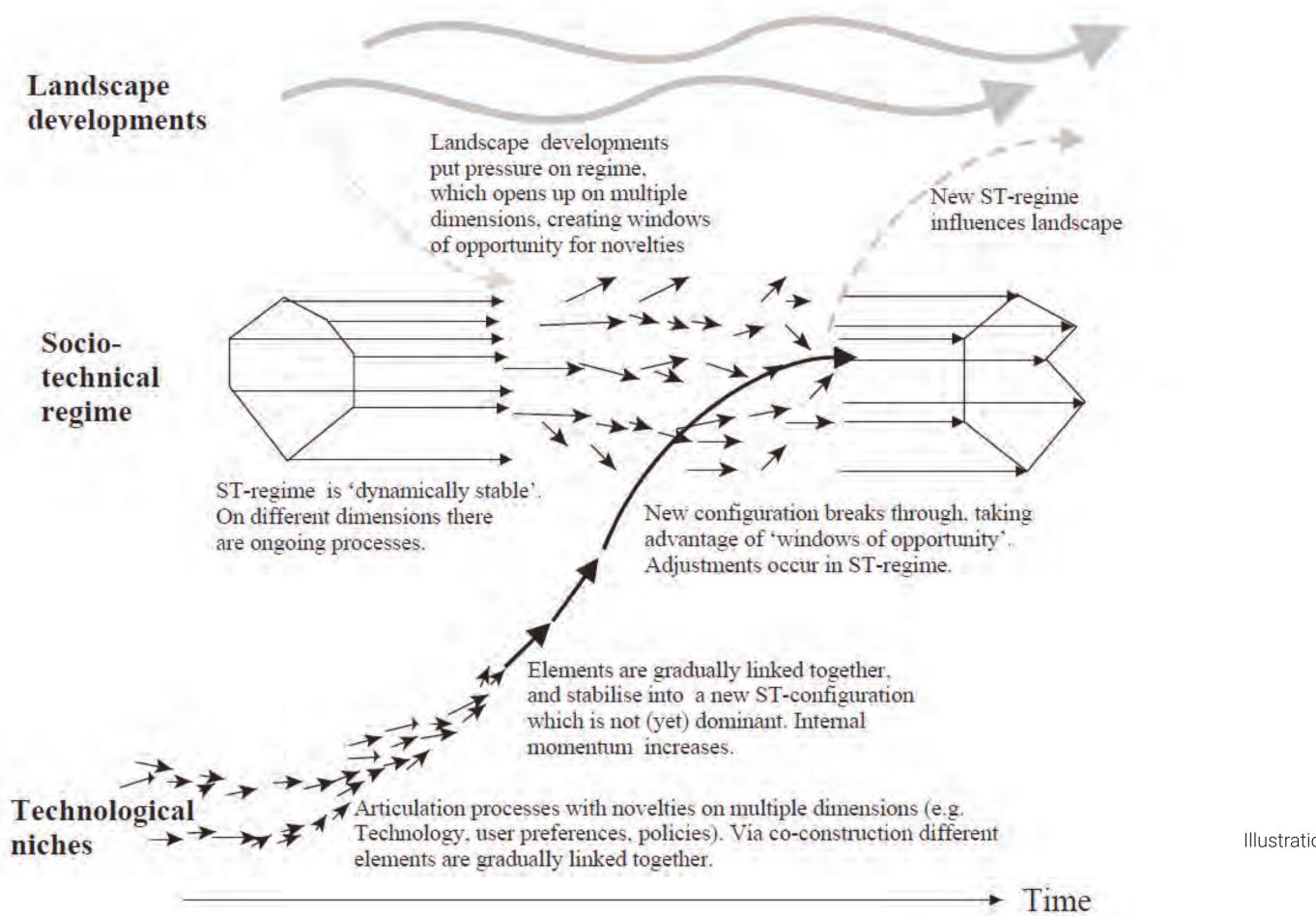
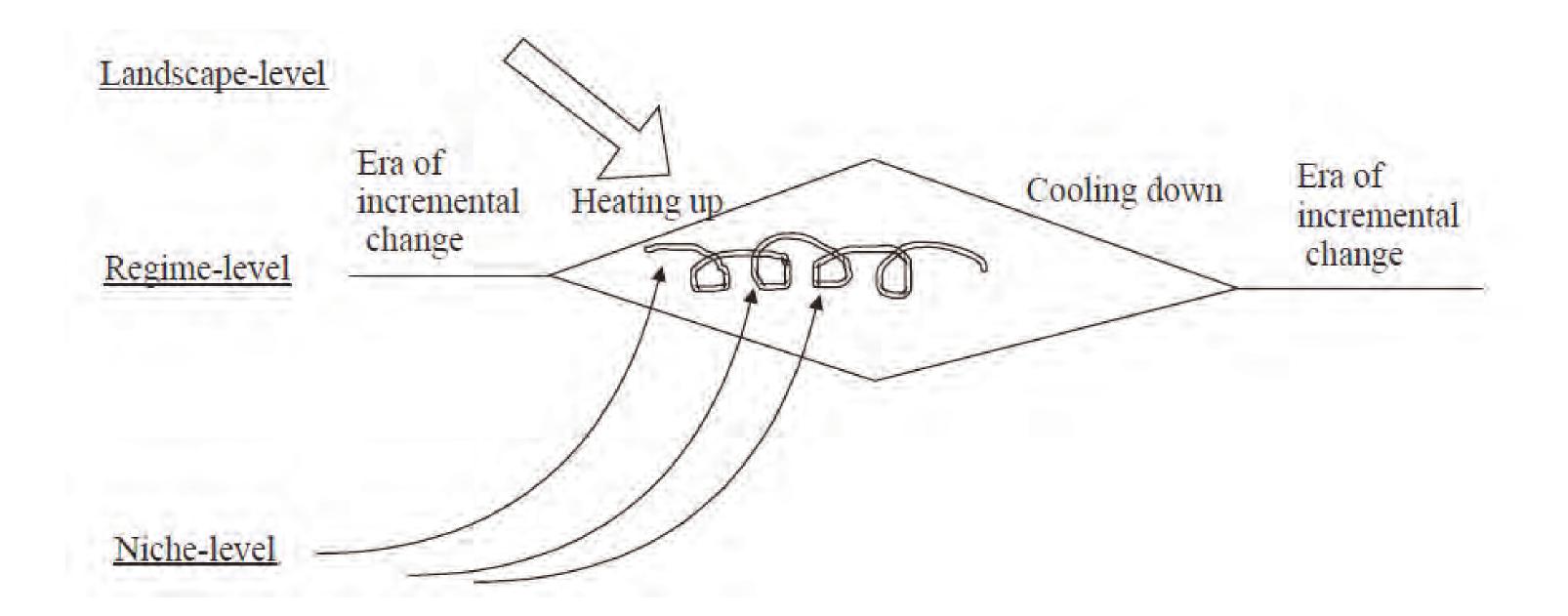


Illustration by Geels. (Geels, 2005)

### THEORY

#### **Transitions**



Wider transformation route in systems innovations. (Geels, 2005)



#### How can I put this to use?



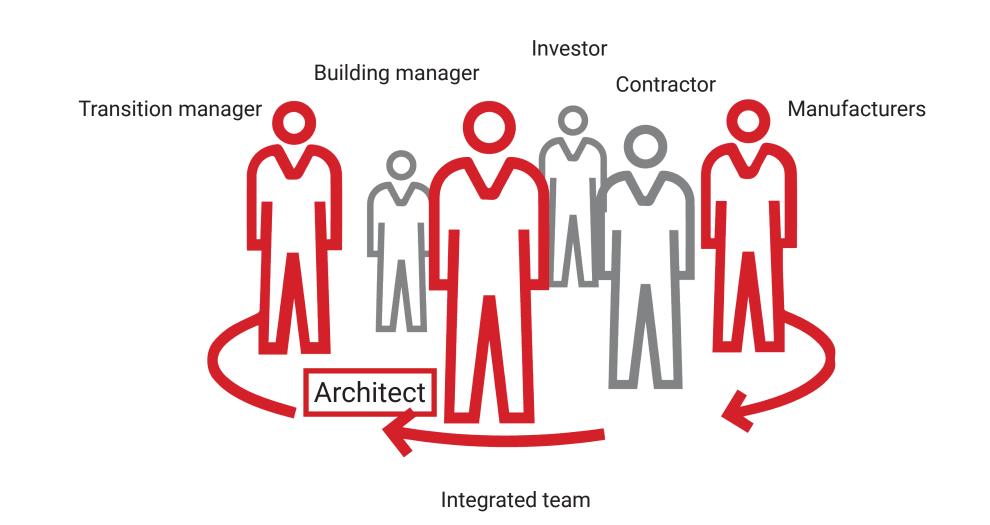
Actively steer the transition



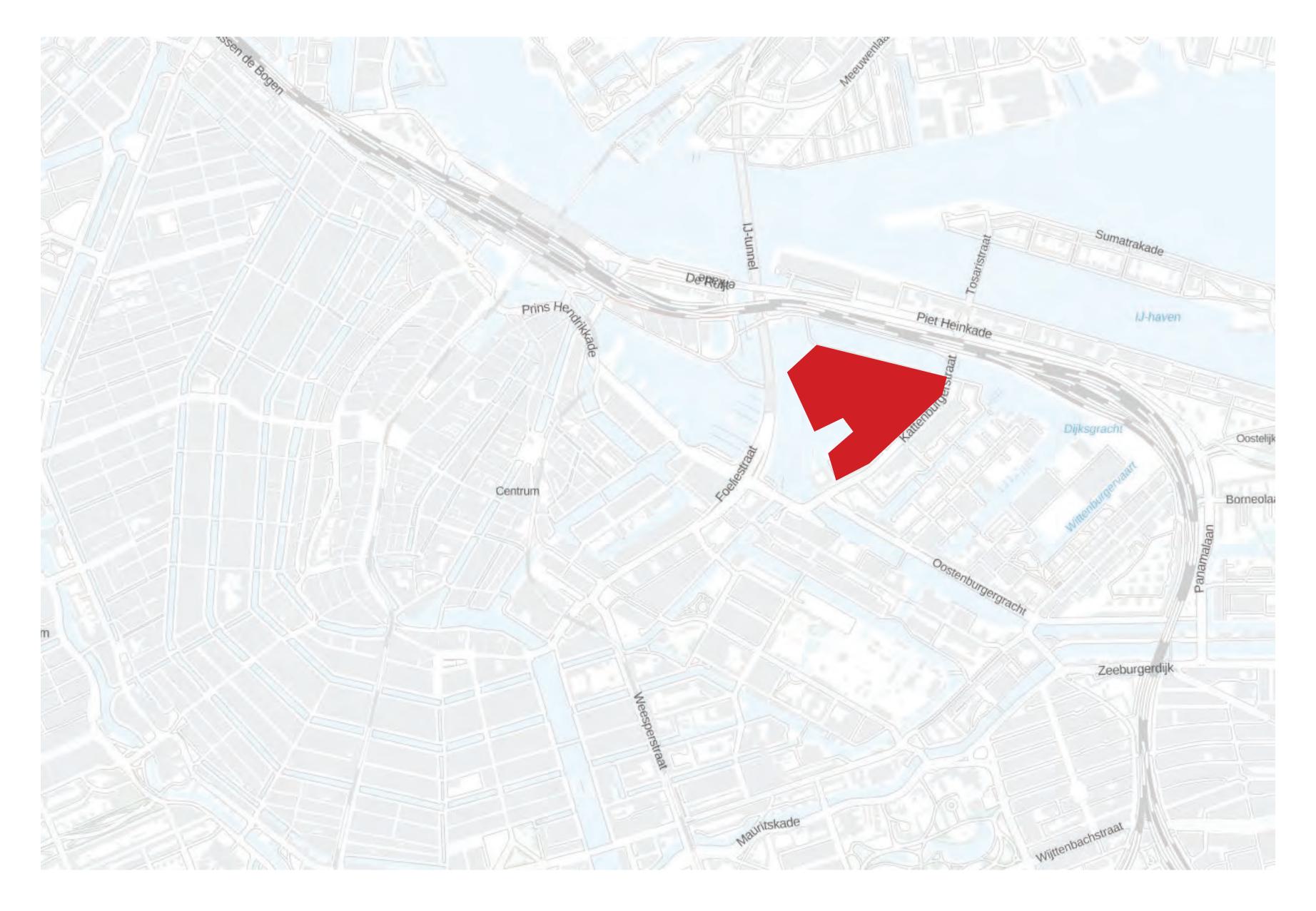
#### How can I put this to use?



Actively steer the transition



# SITE

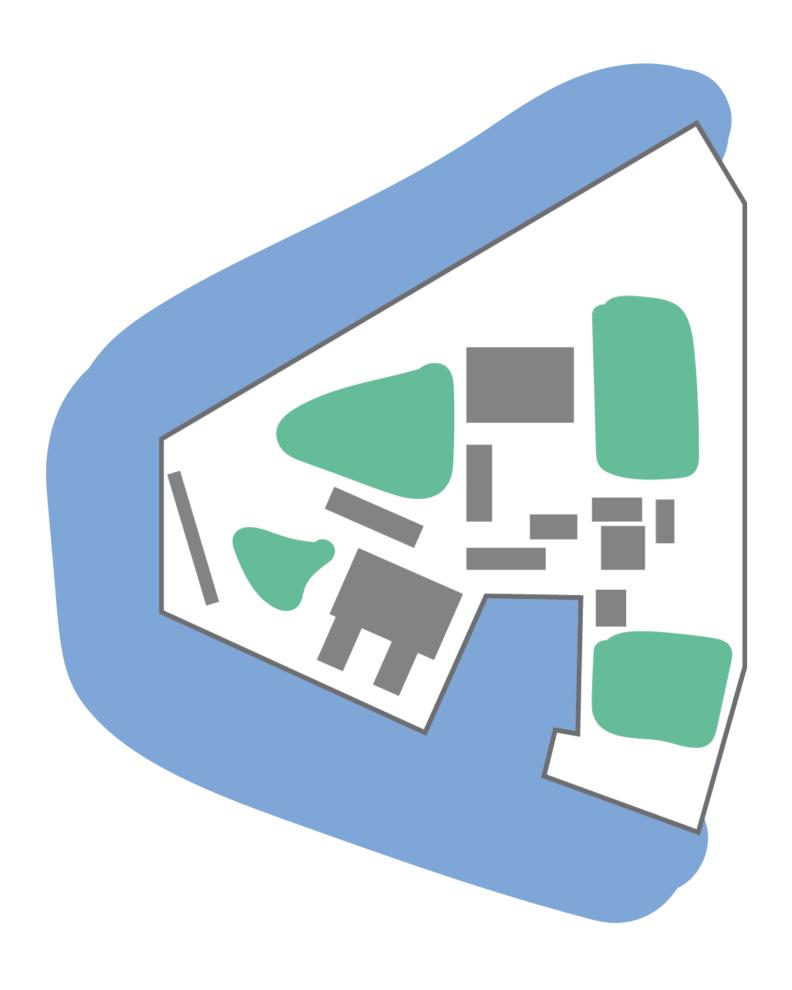






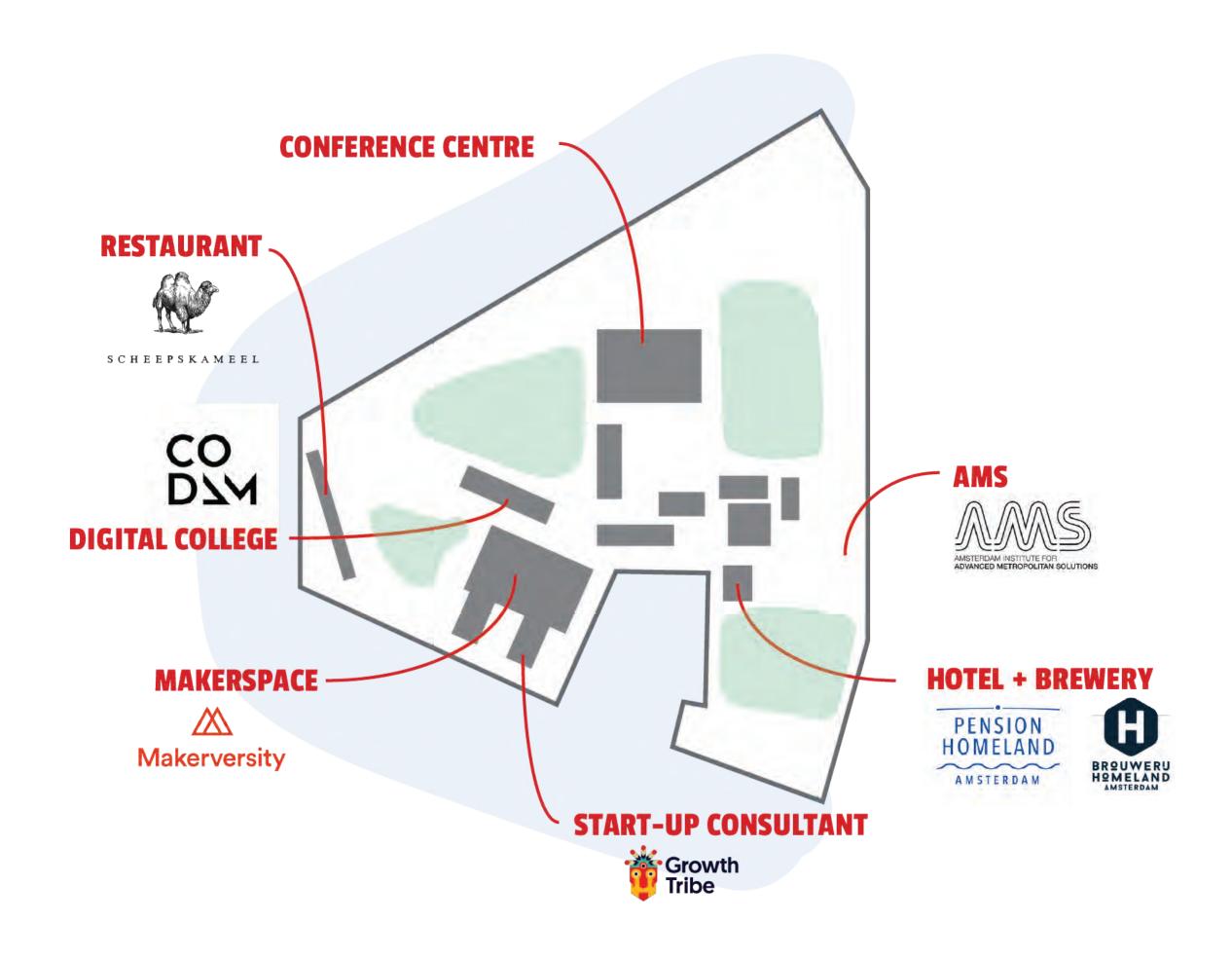


#### Marineterrein as a campus



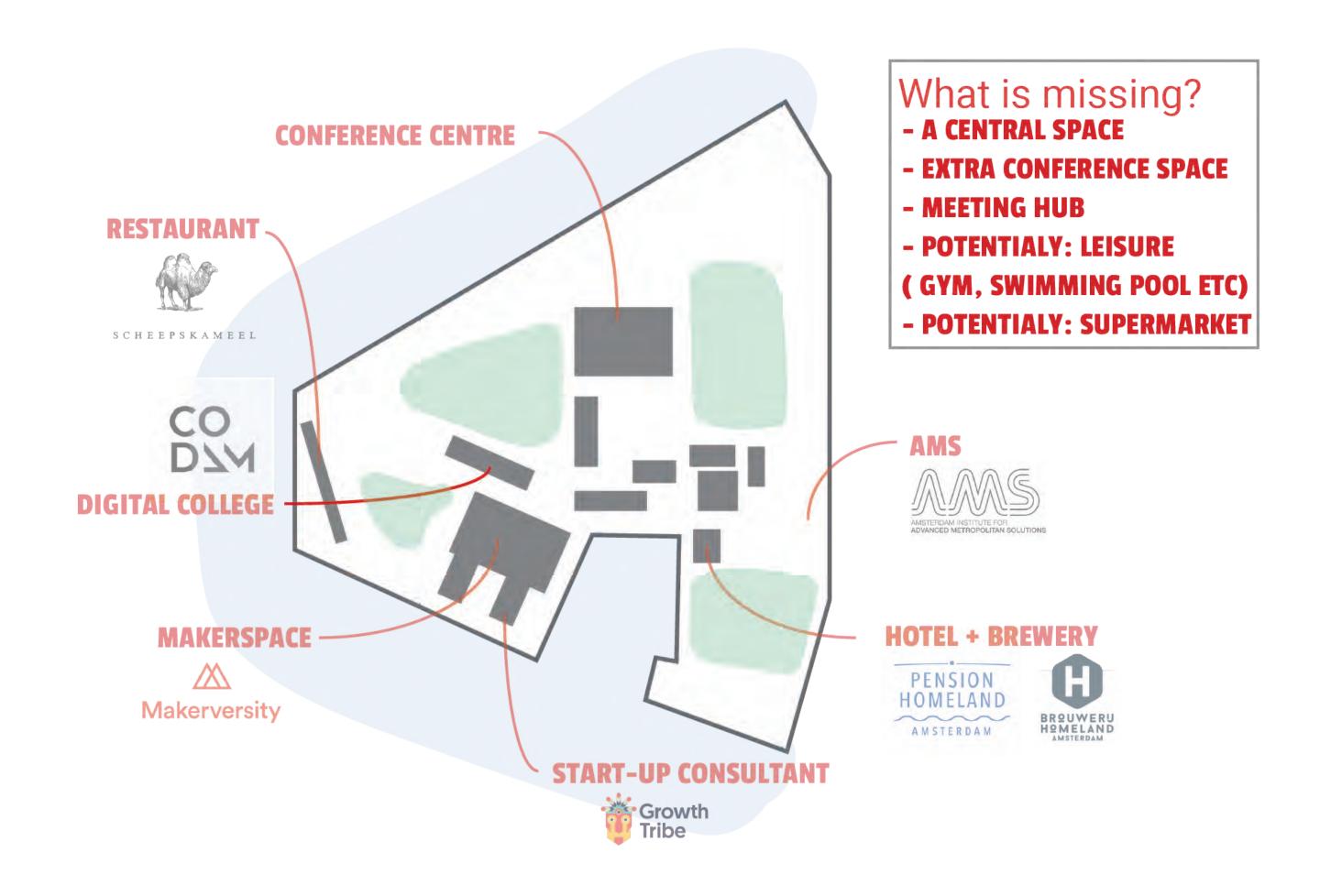
# SITE

#### Marineterrein as a campus



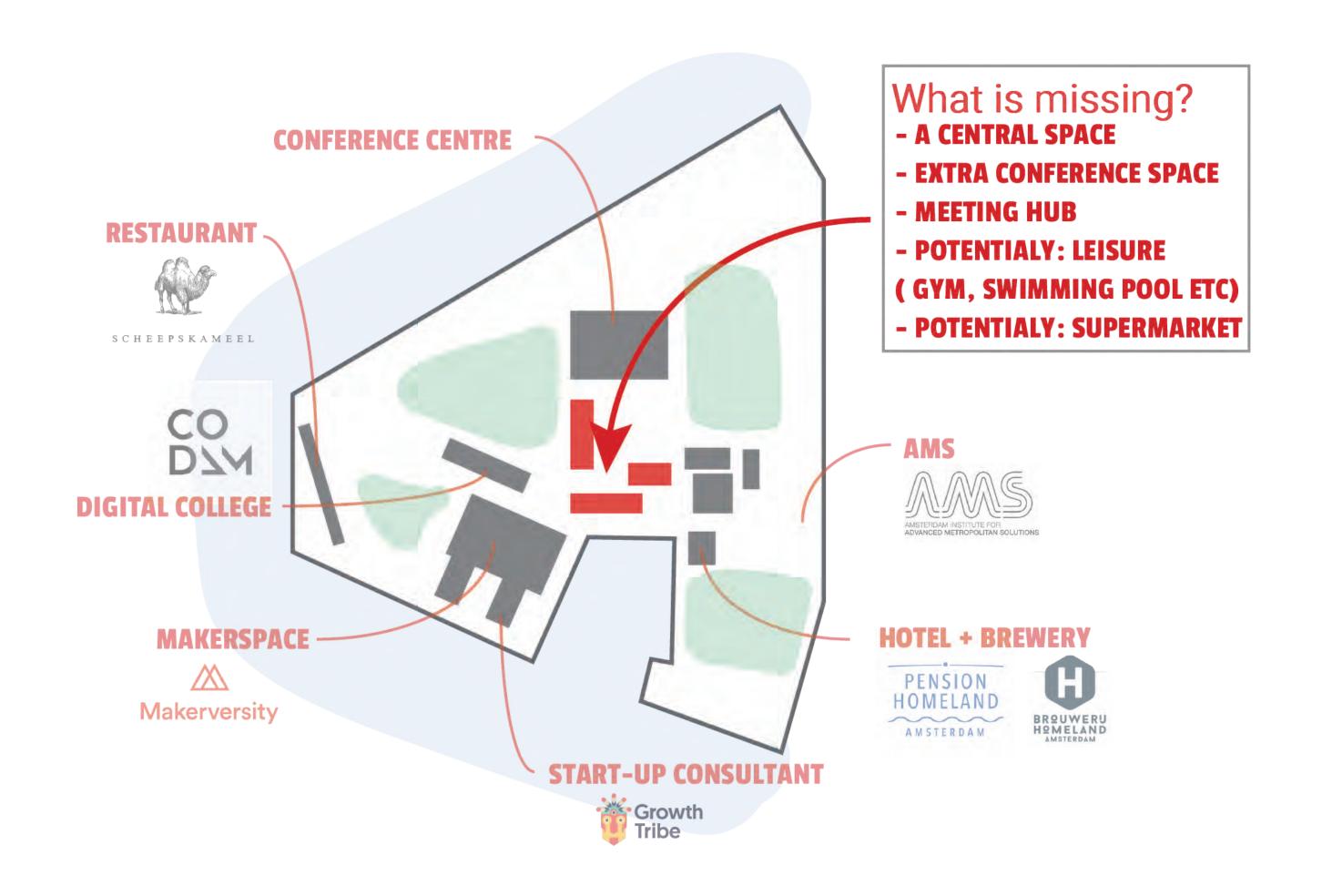
# SITE

#### Marineterrein as a campus

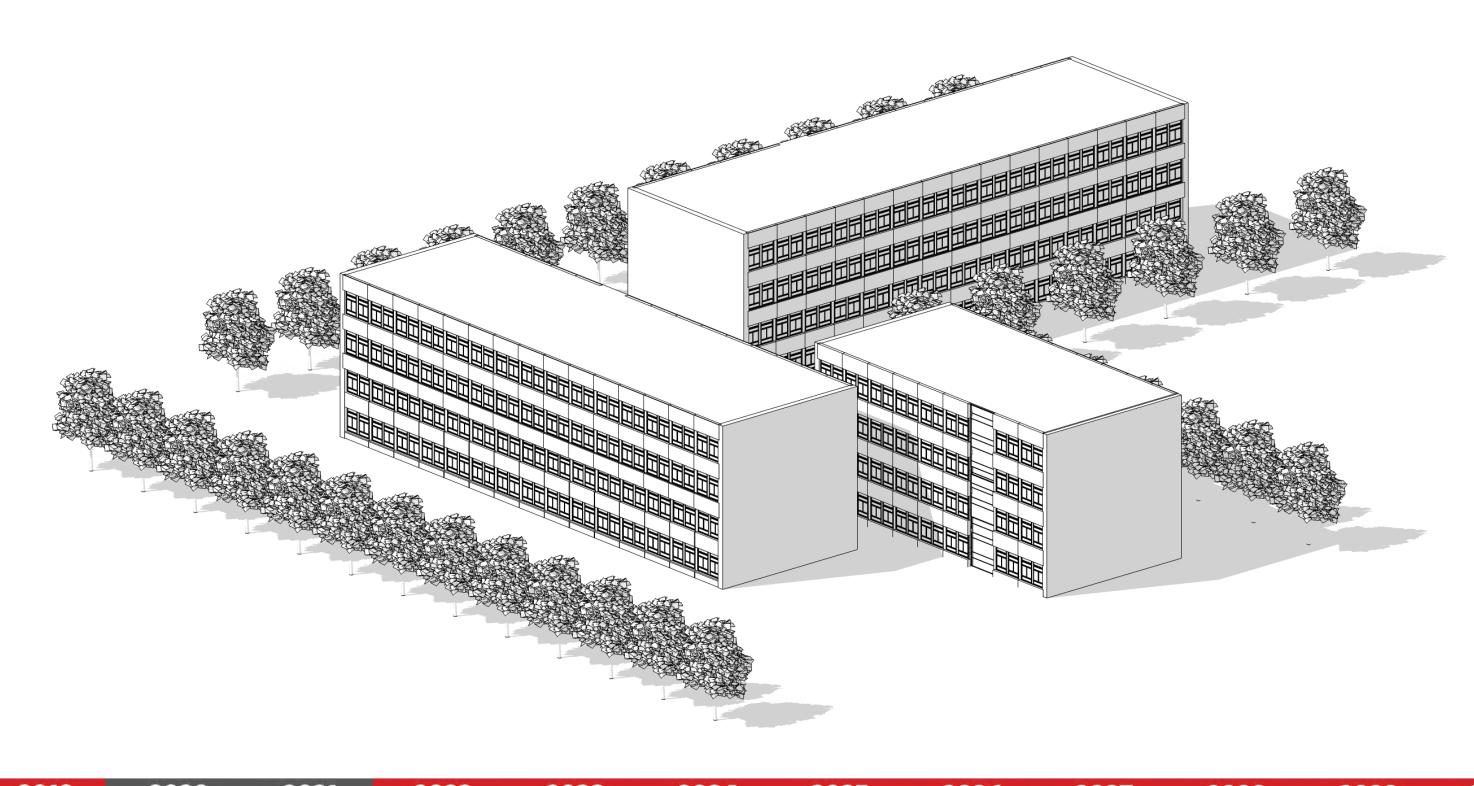


# SITE

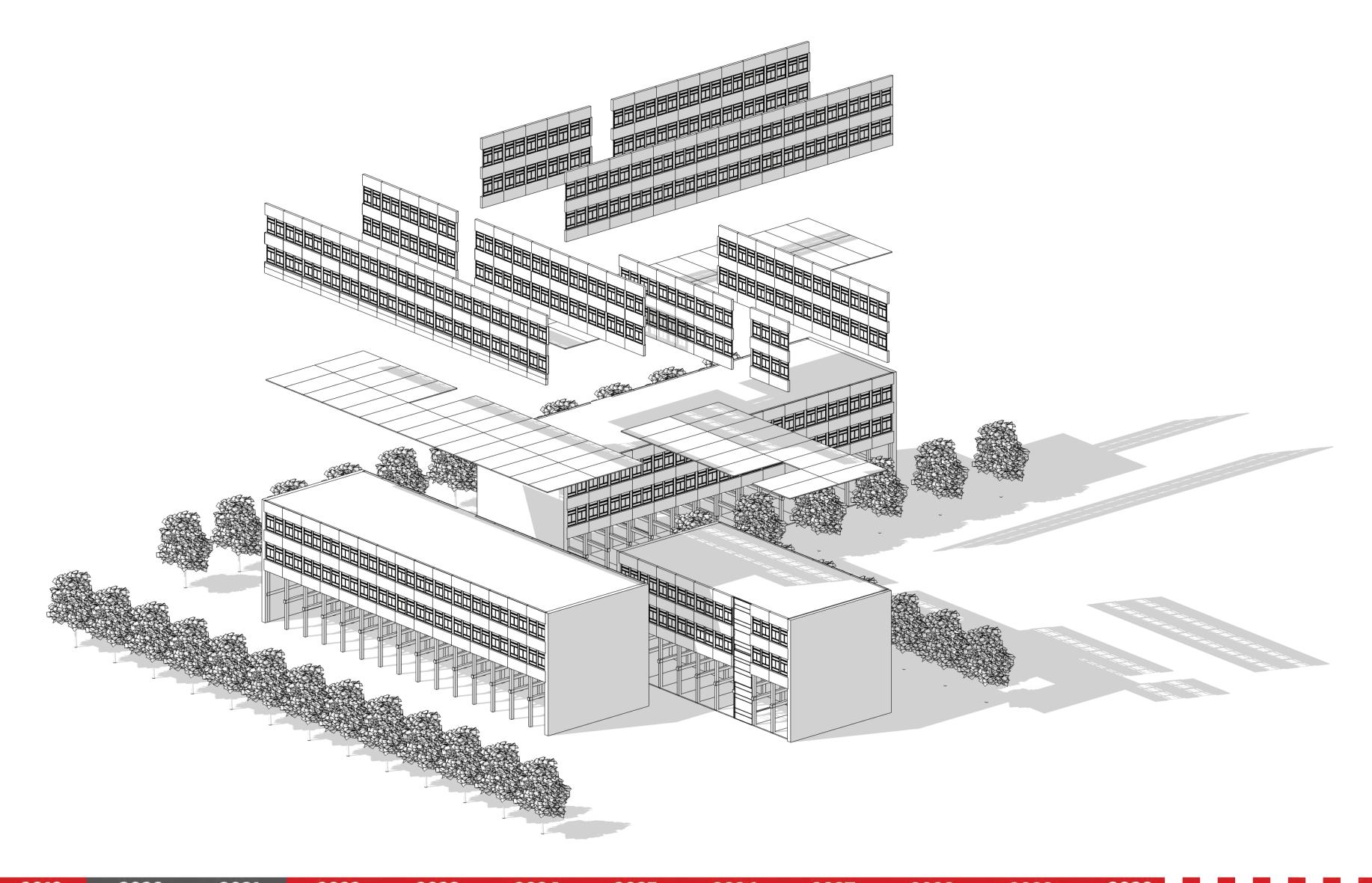
#### Marineterrein as a campus



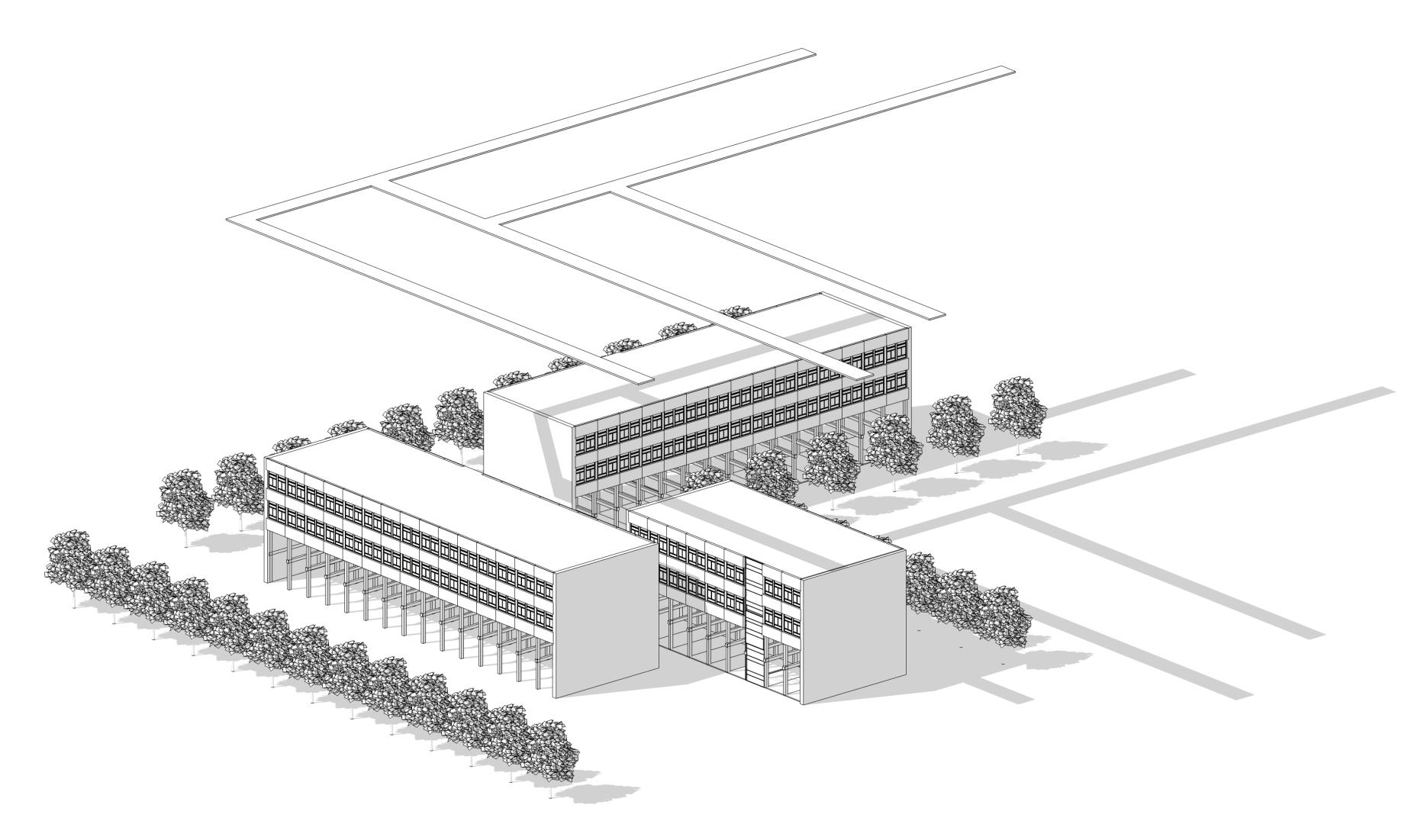
**Current situation** 



Remove floor & facade



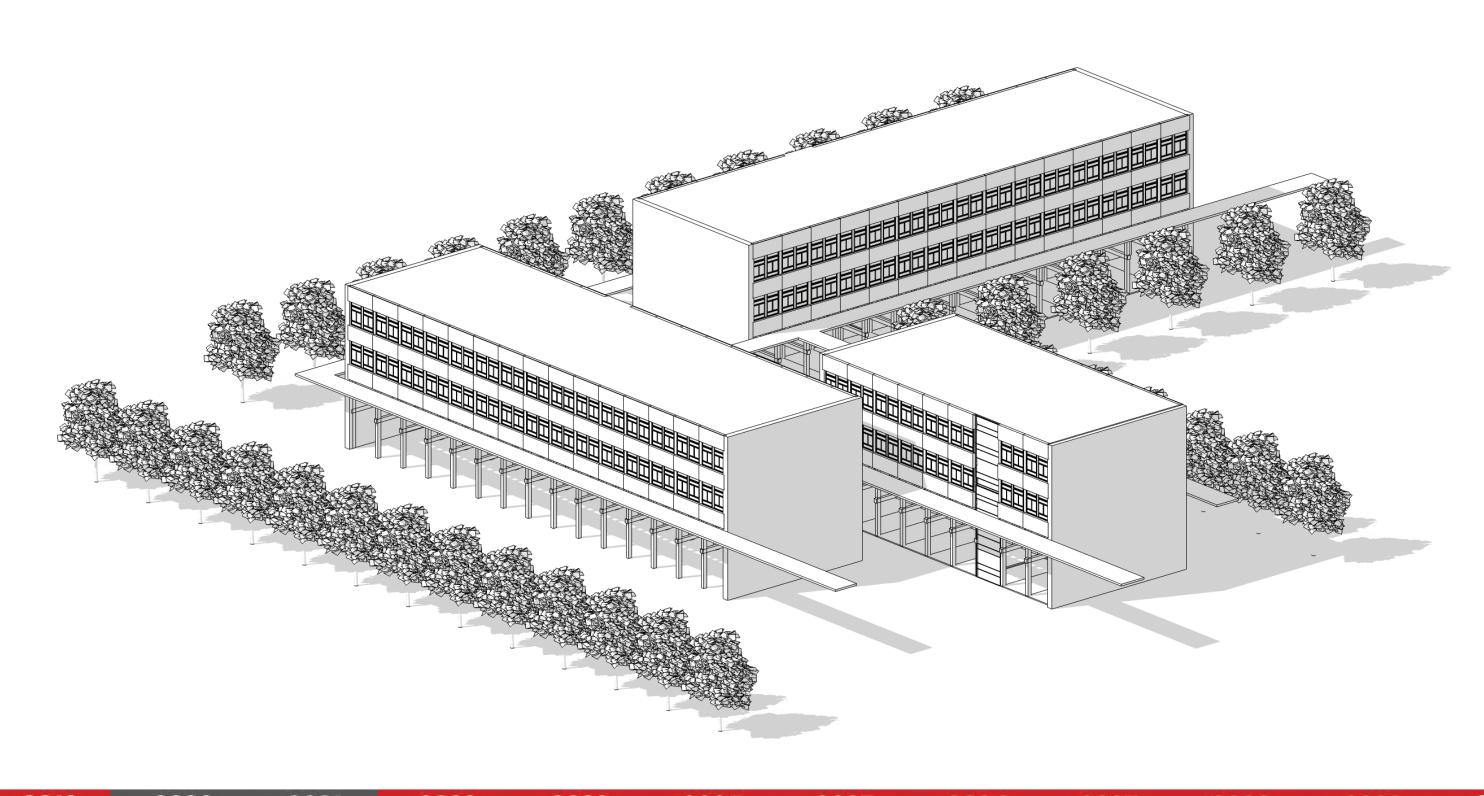
Add walkway



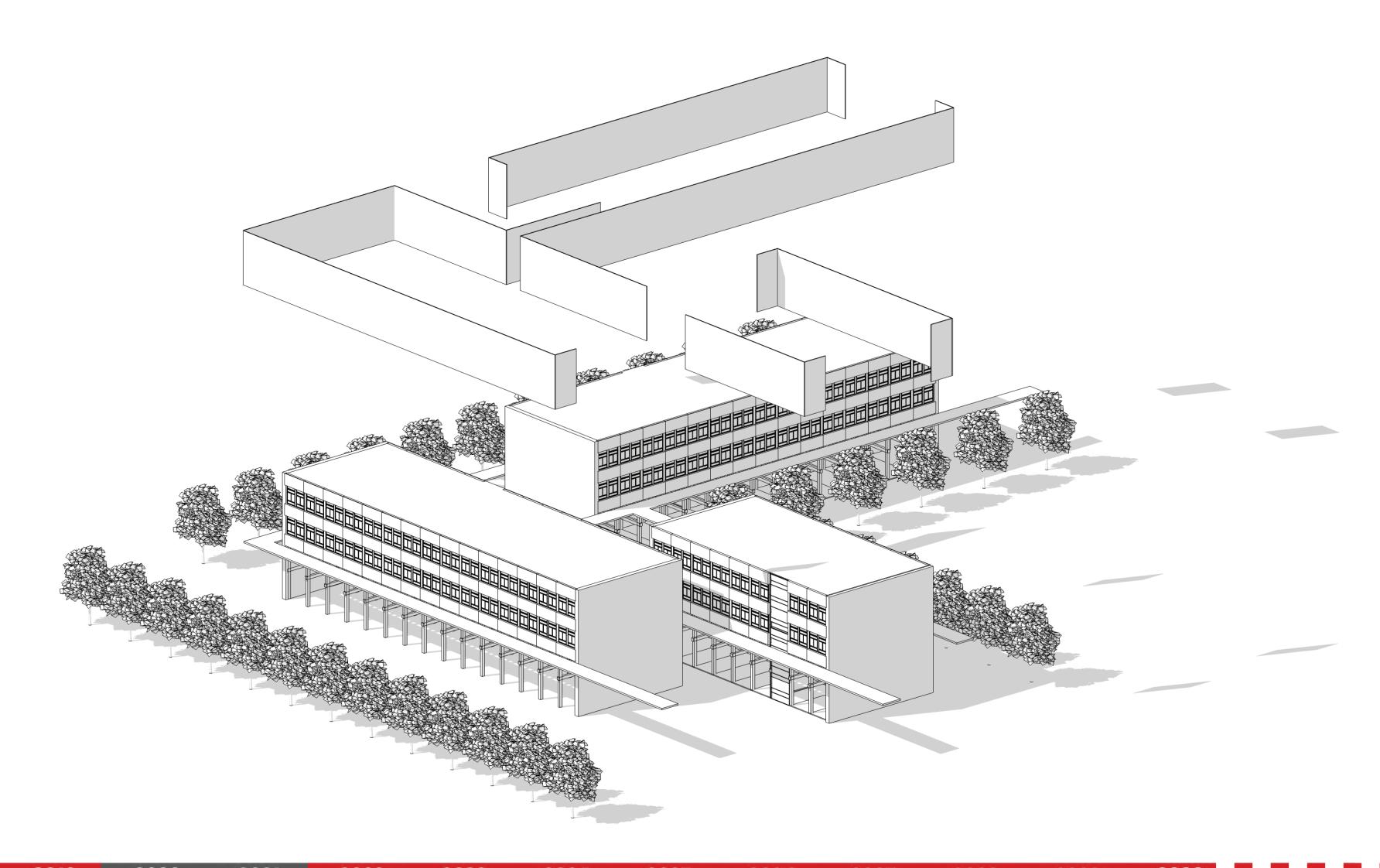
1500 2018 2019 2020 2021 2022

2028 2029 2030 2050

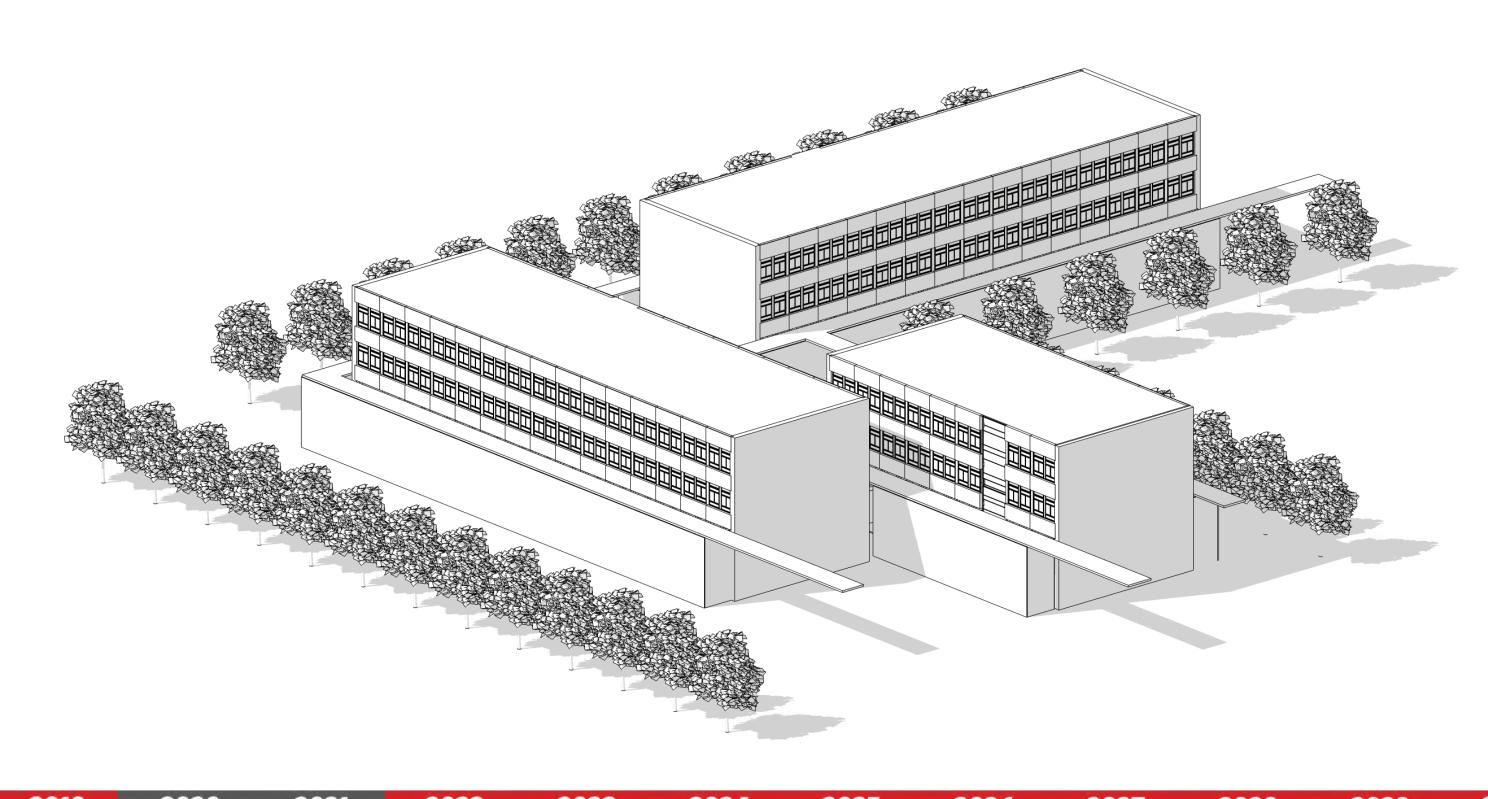
**Add walkway** 



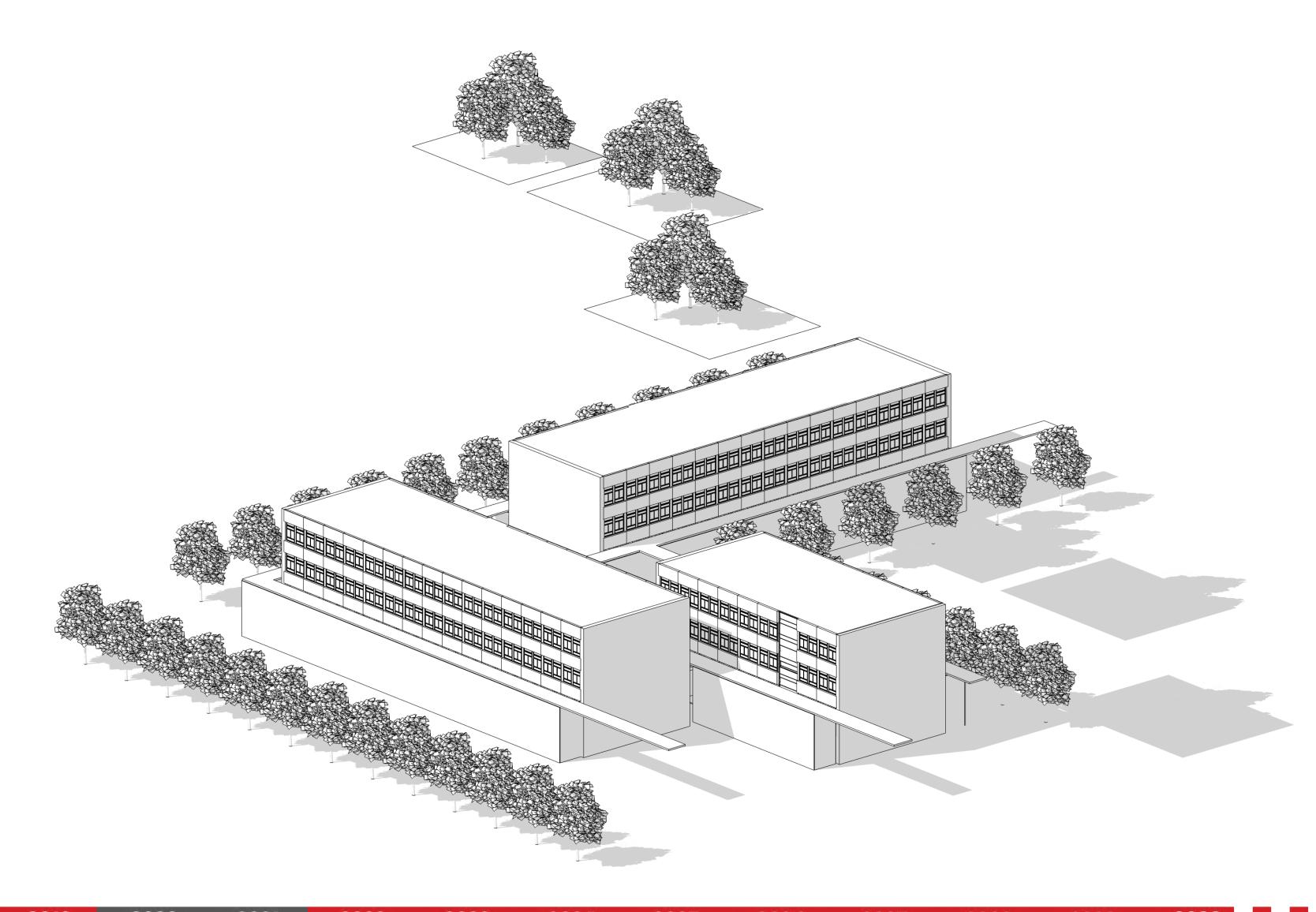
**New facade** 



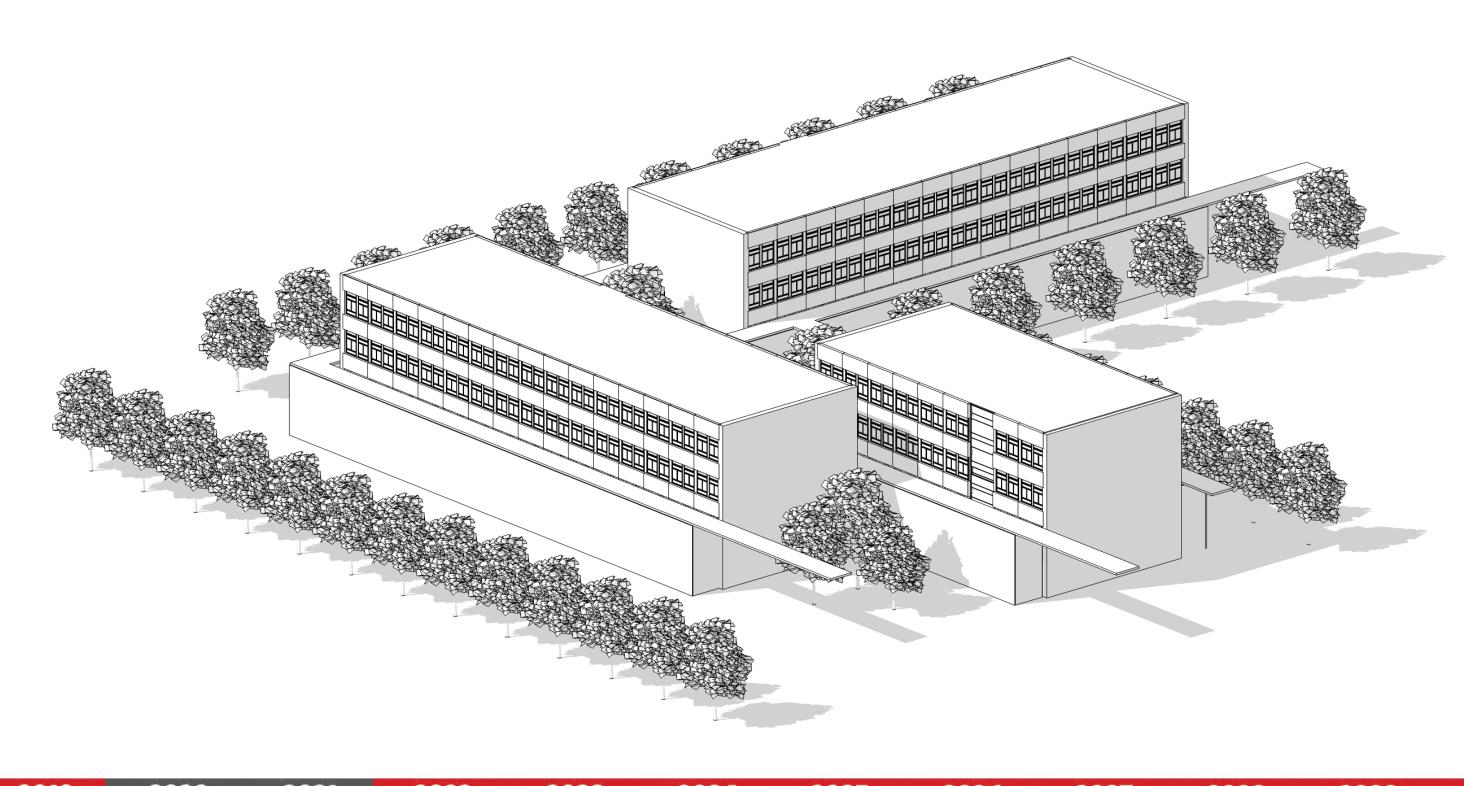
New facade



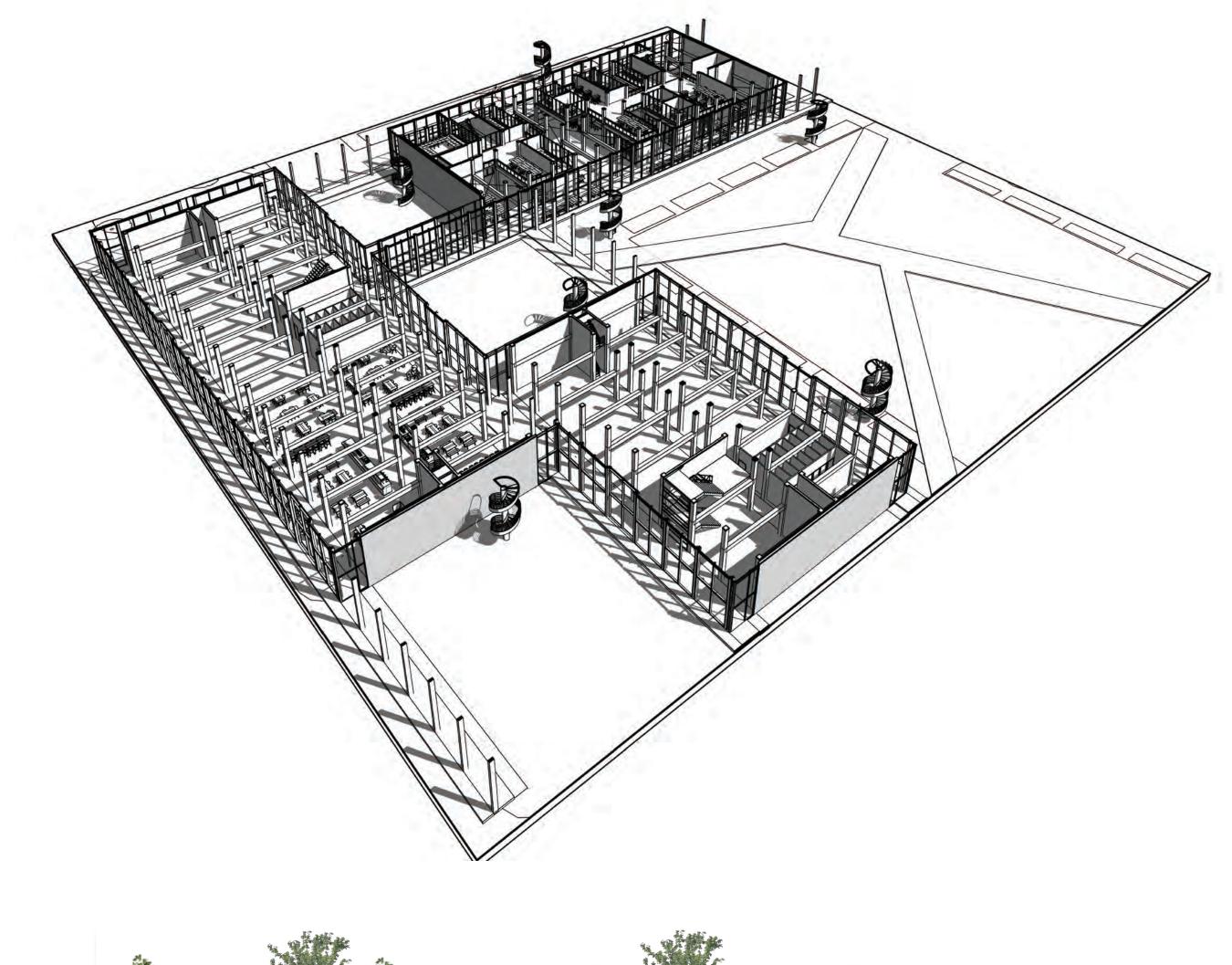
Patio's



Patio's



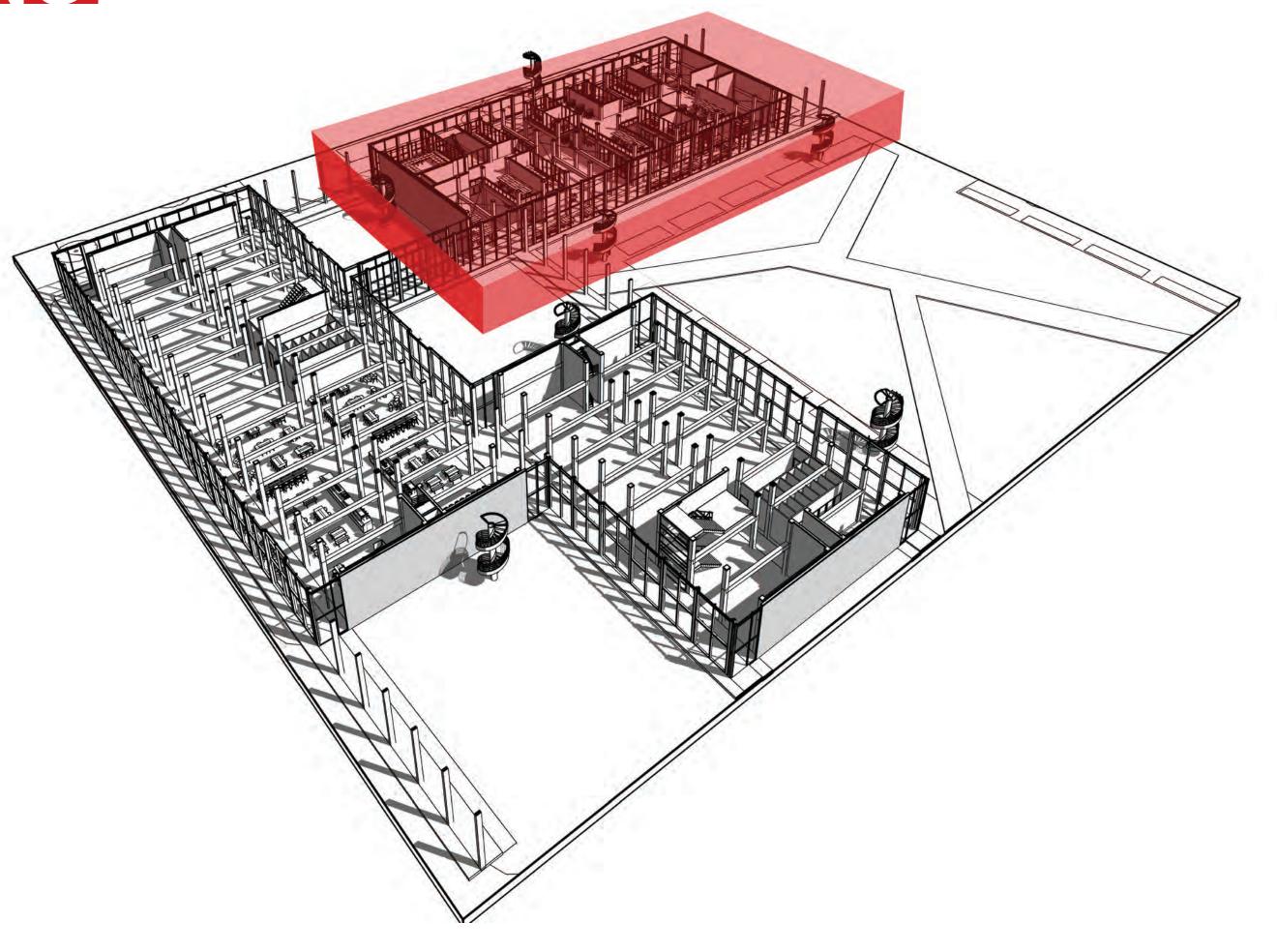
**Organisation** 





**Organisation** 

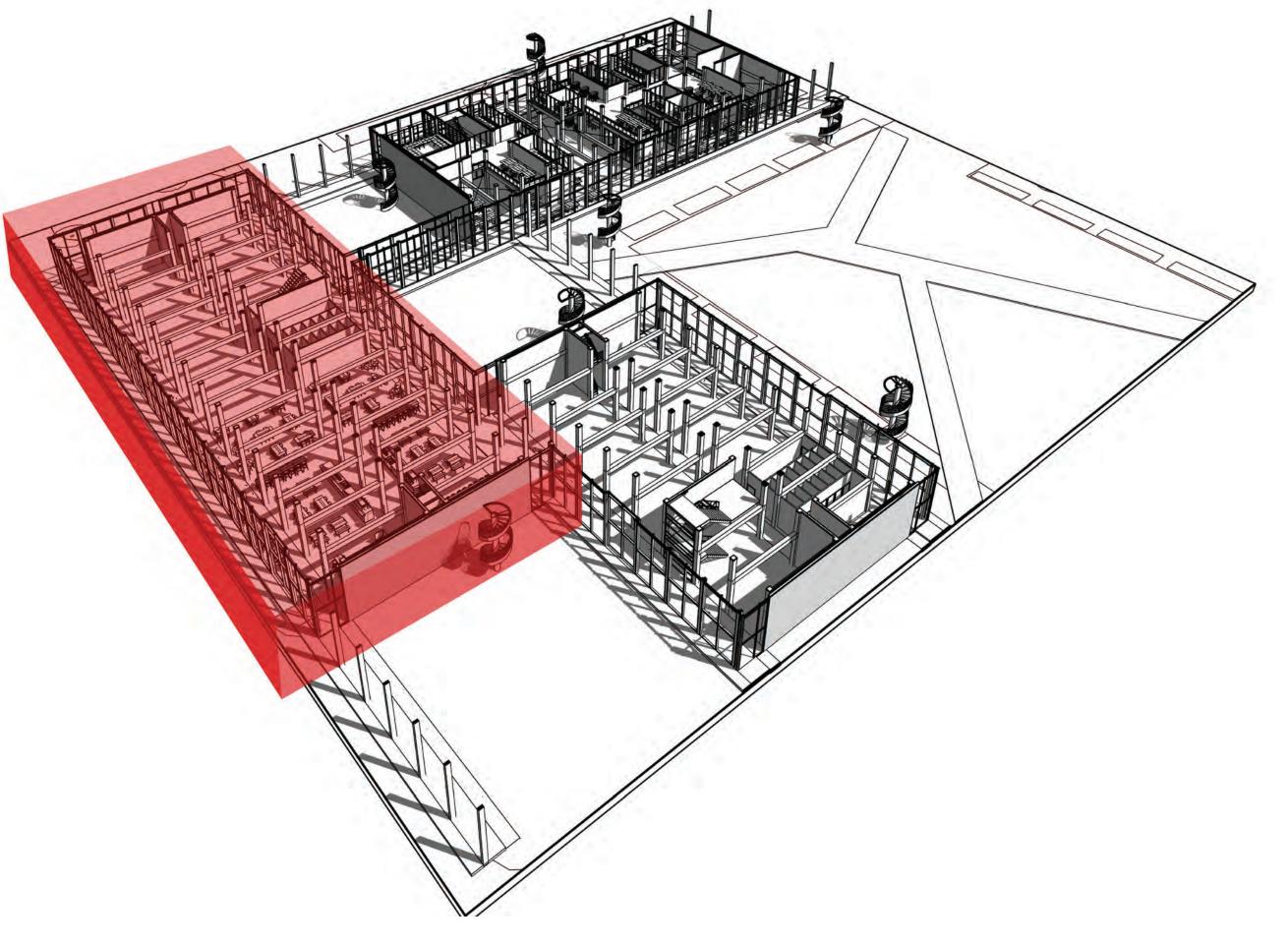






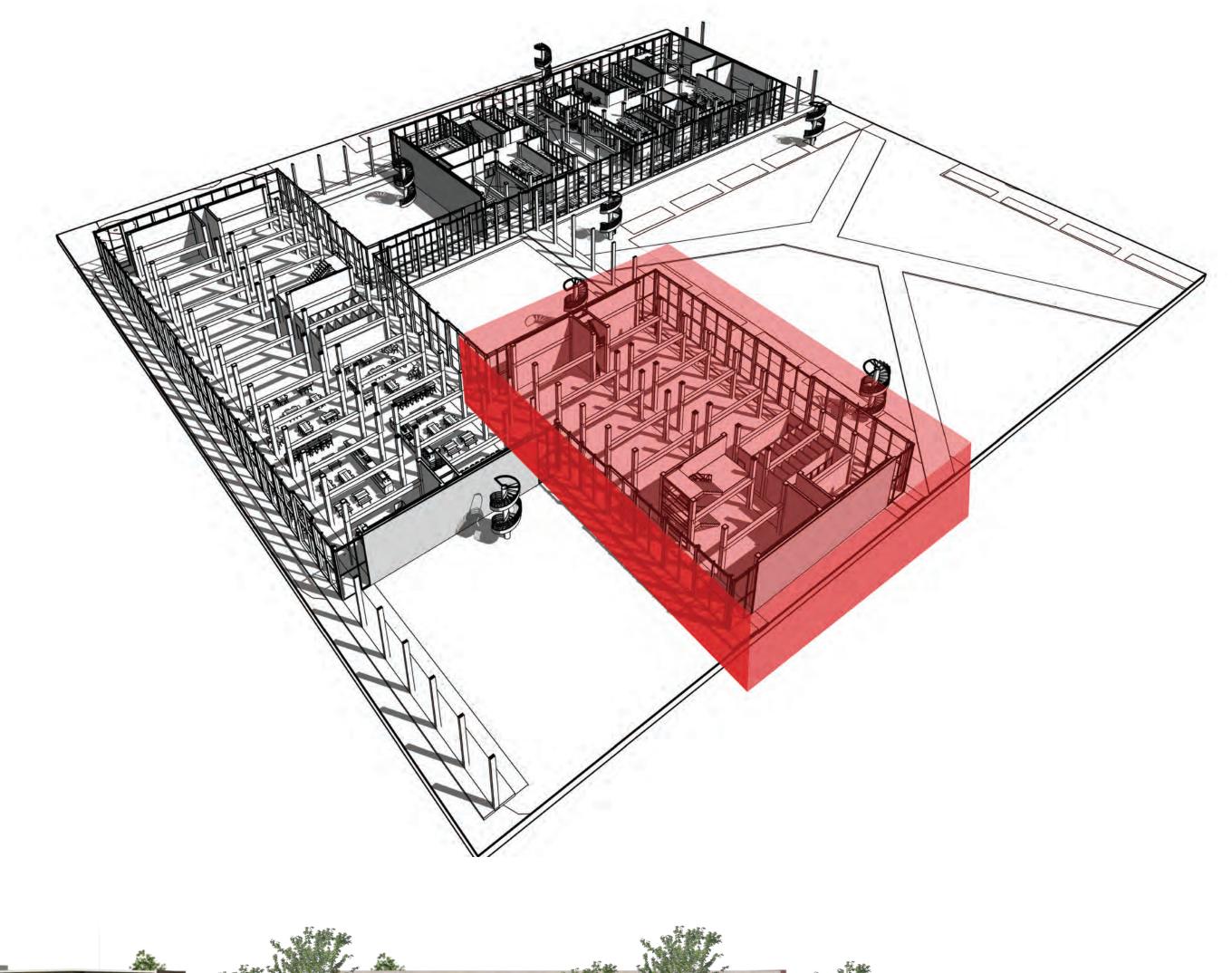
**Organisation** 





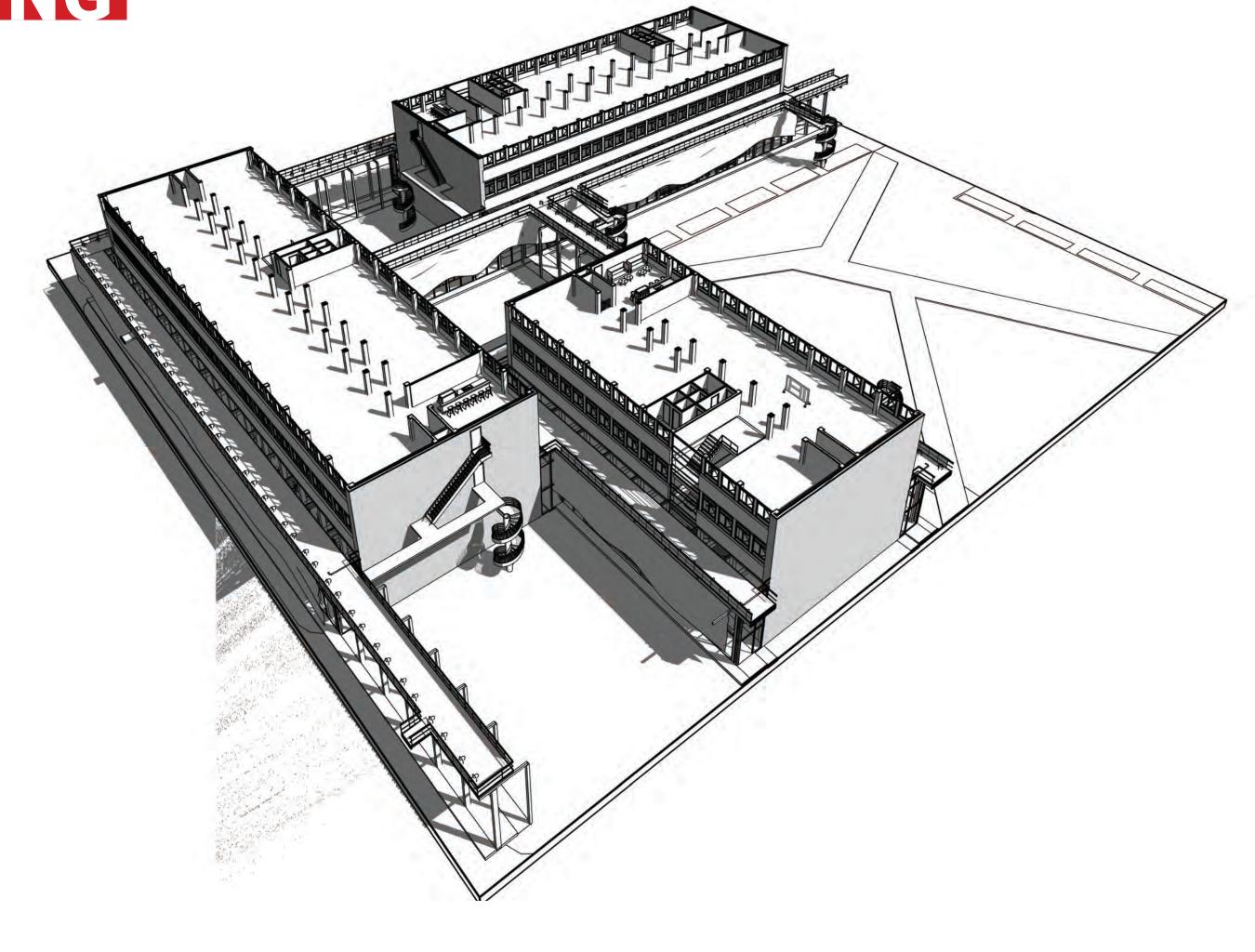


**Organisation** 



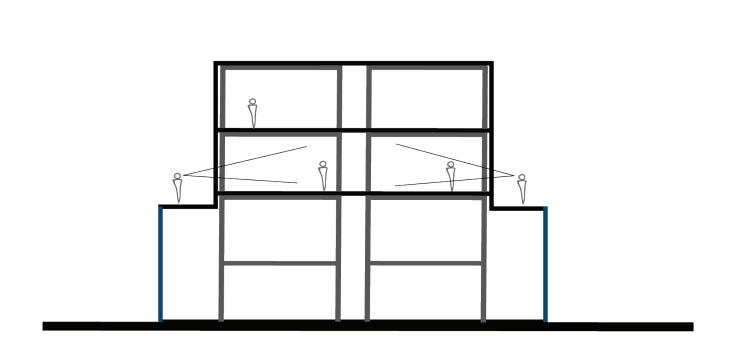


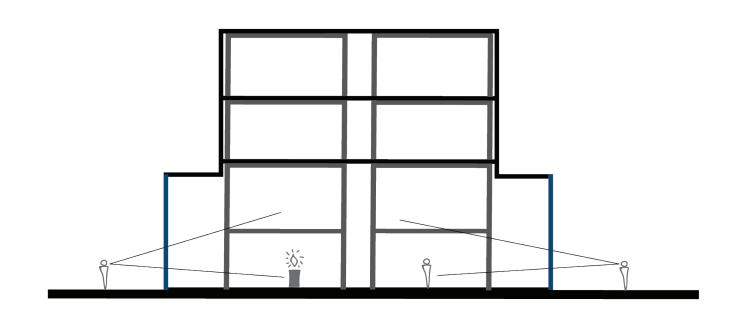
**Organisation** 





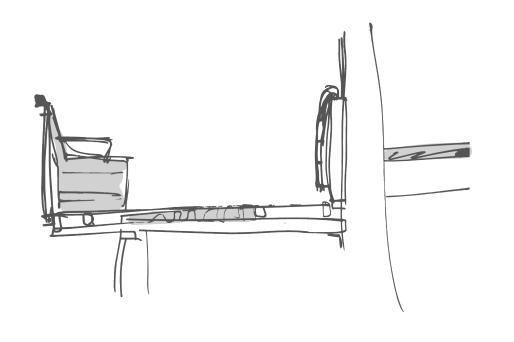
Walkway

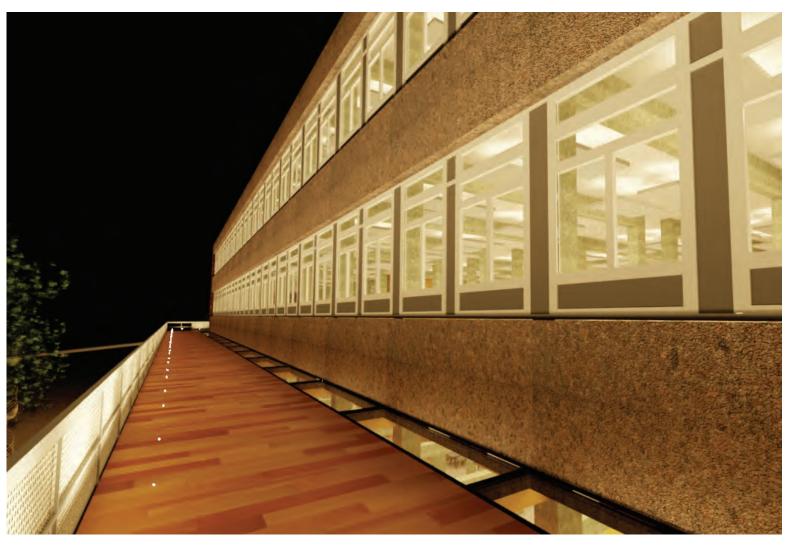






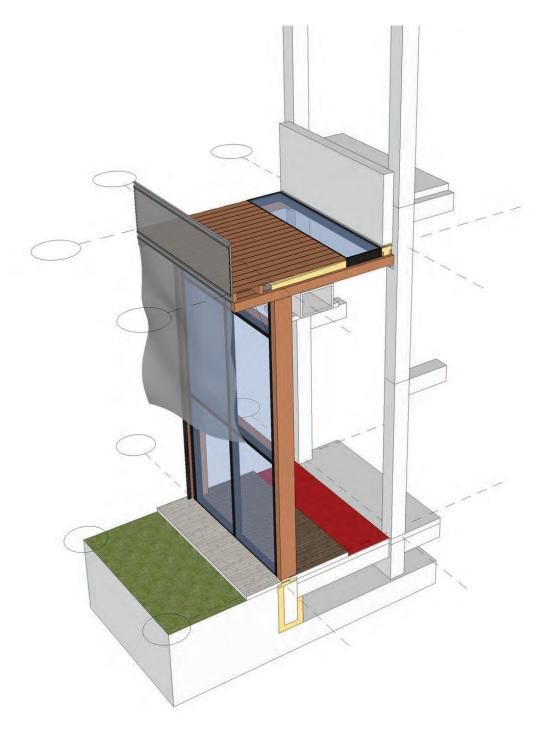


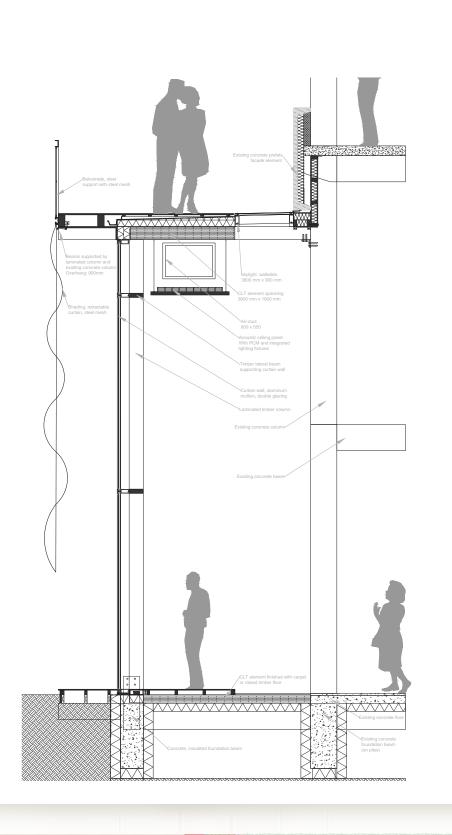


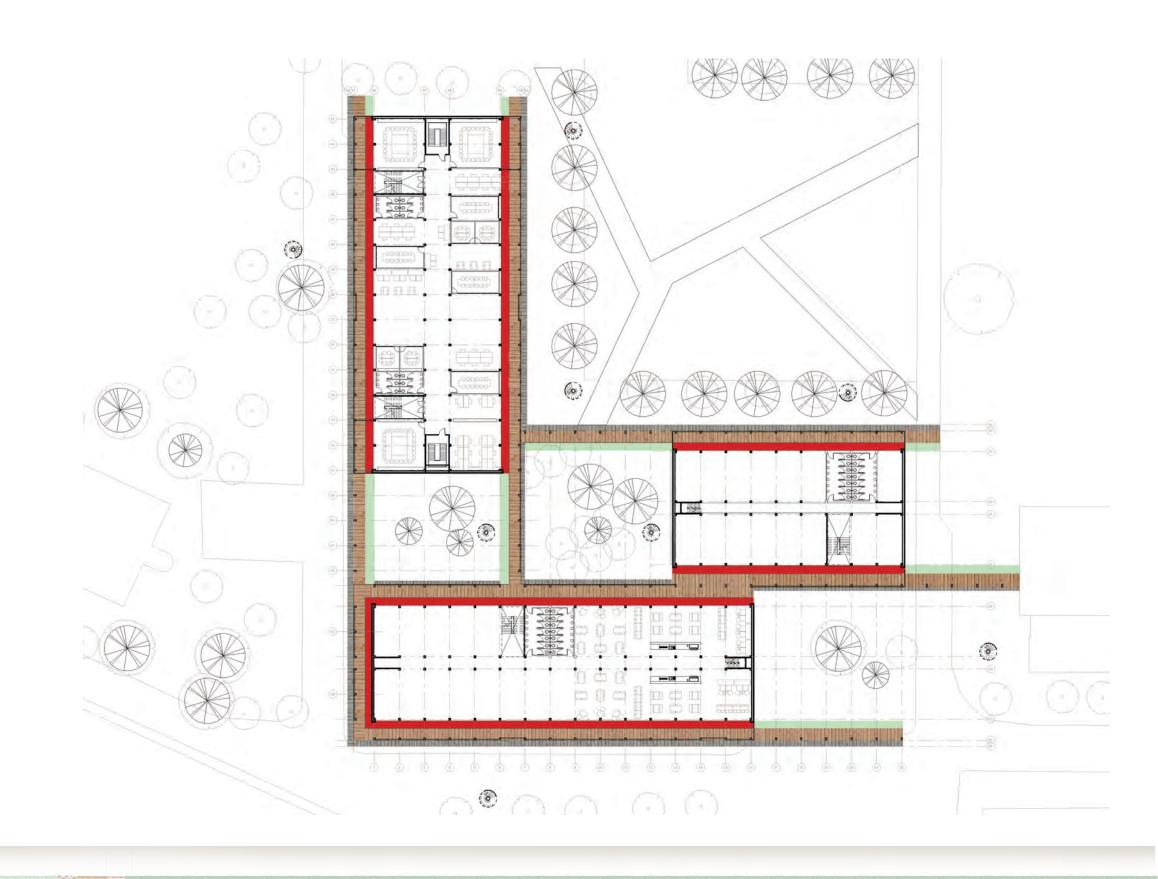




#### **Transition zones**

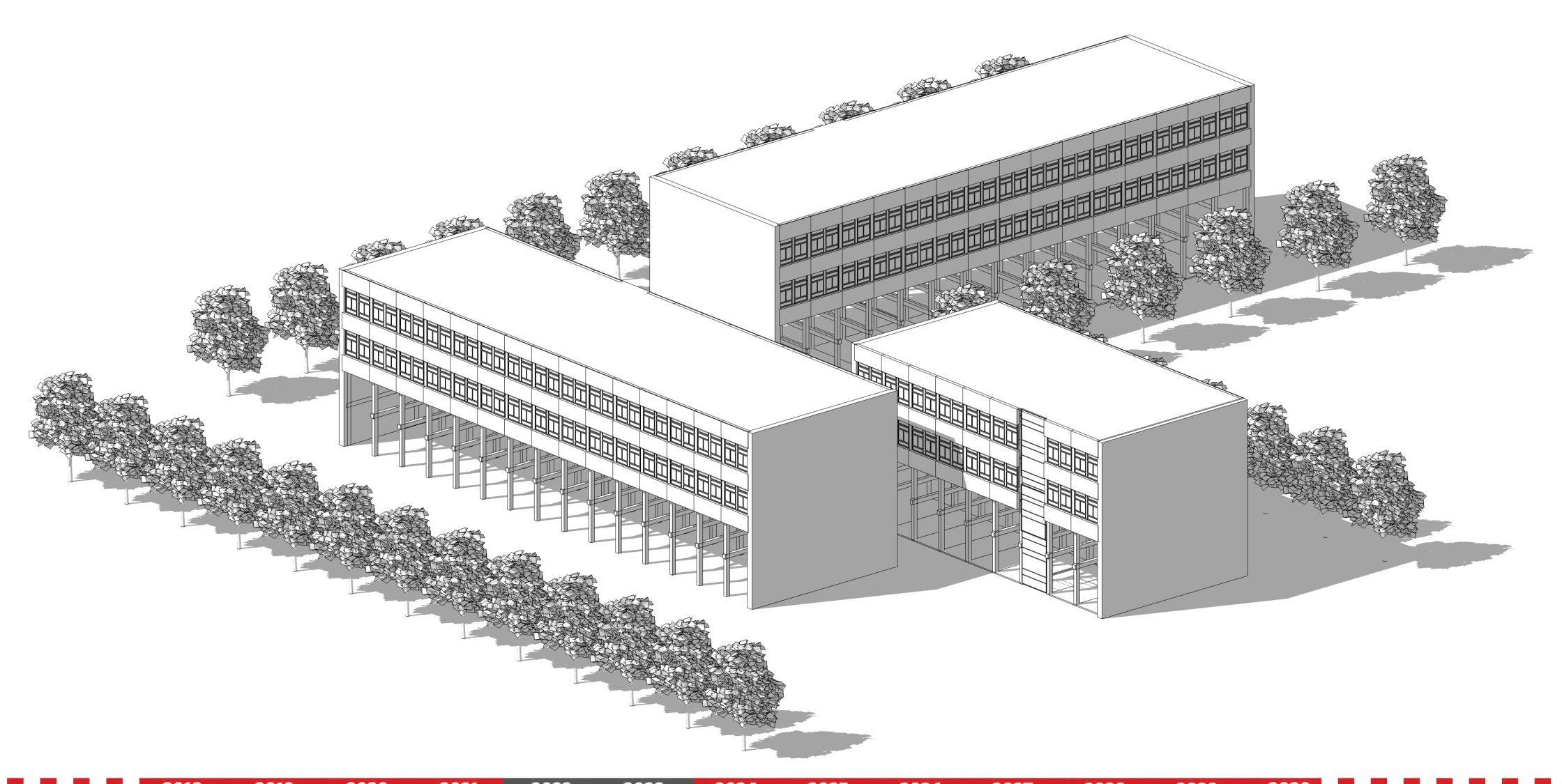


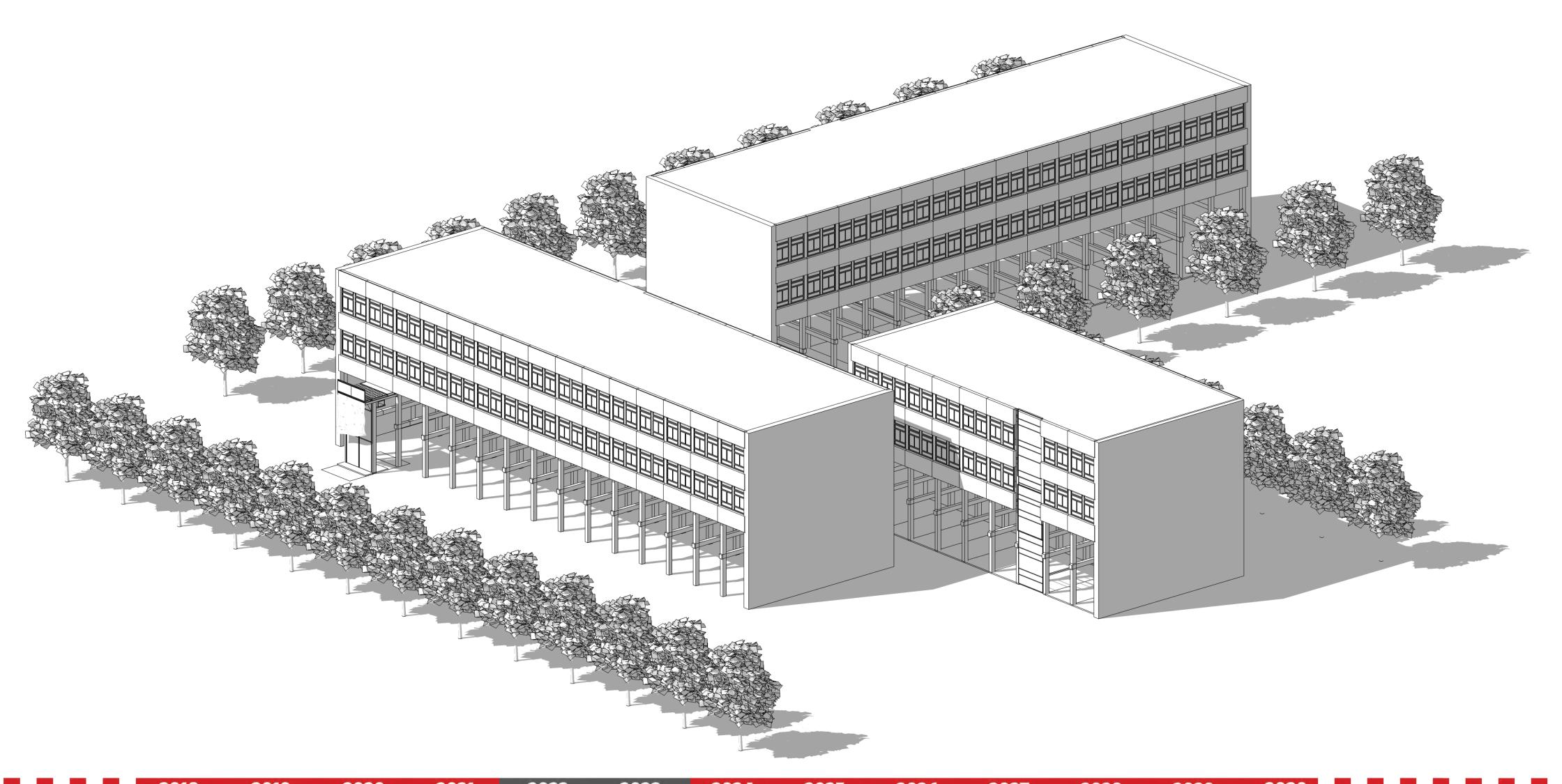


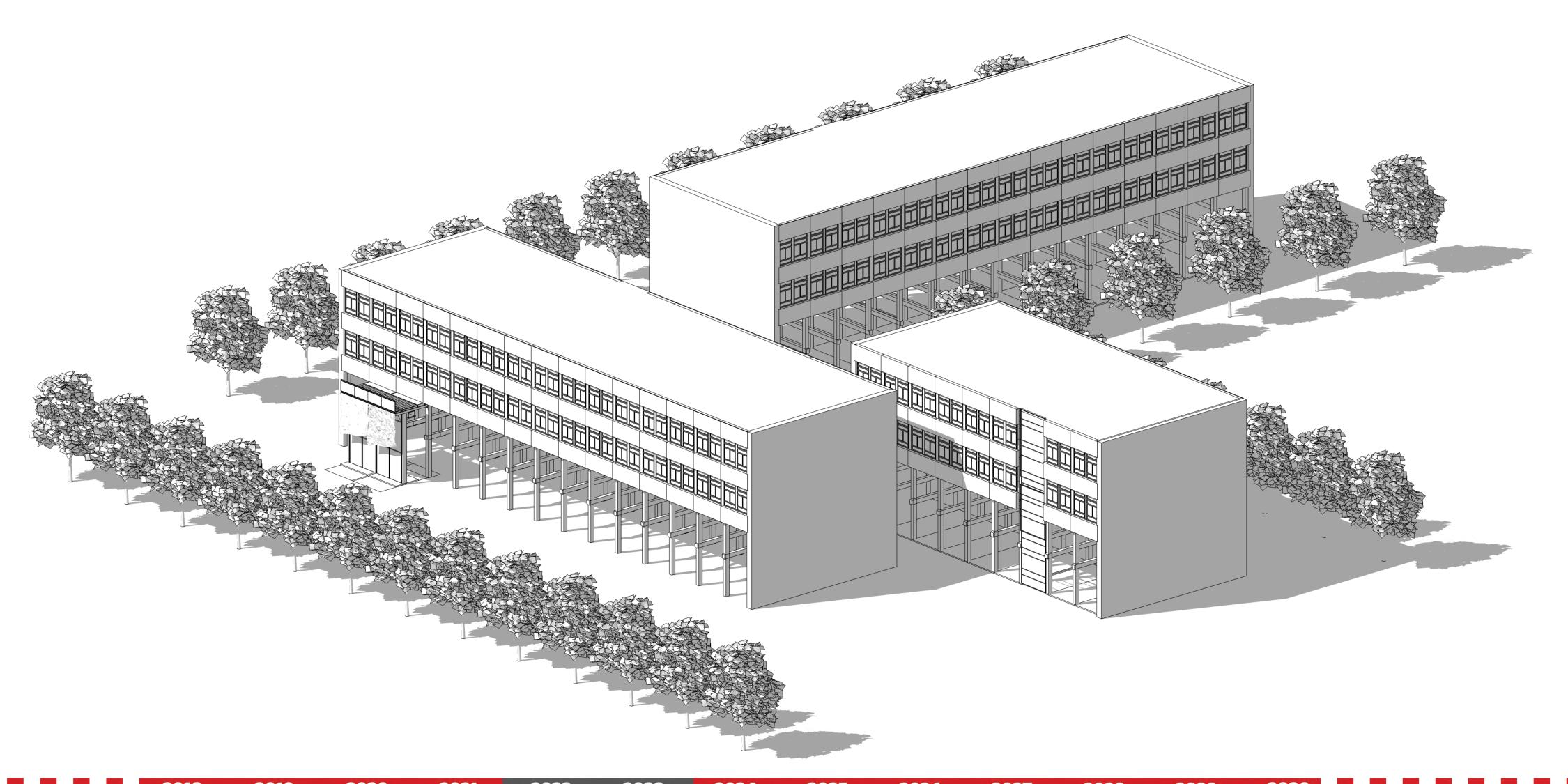


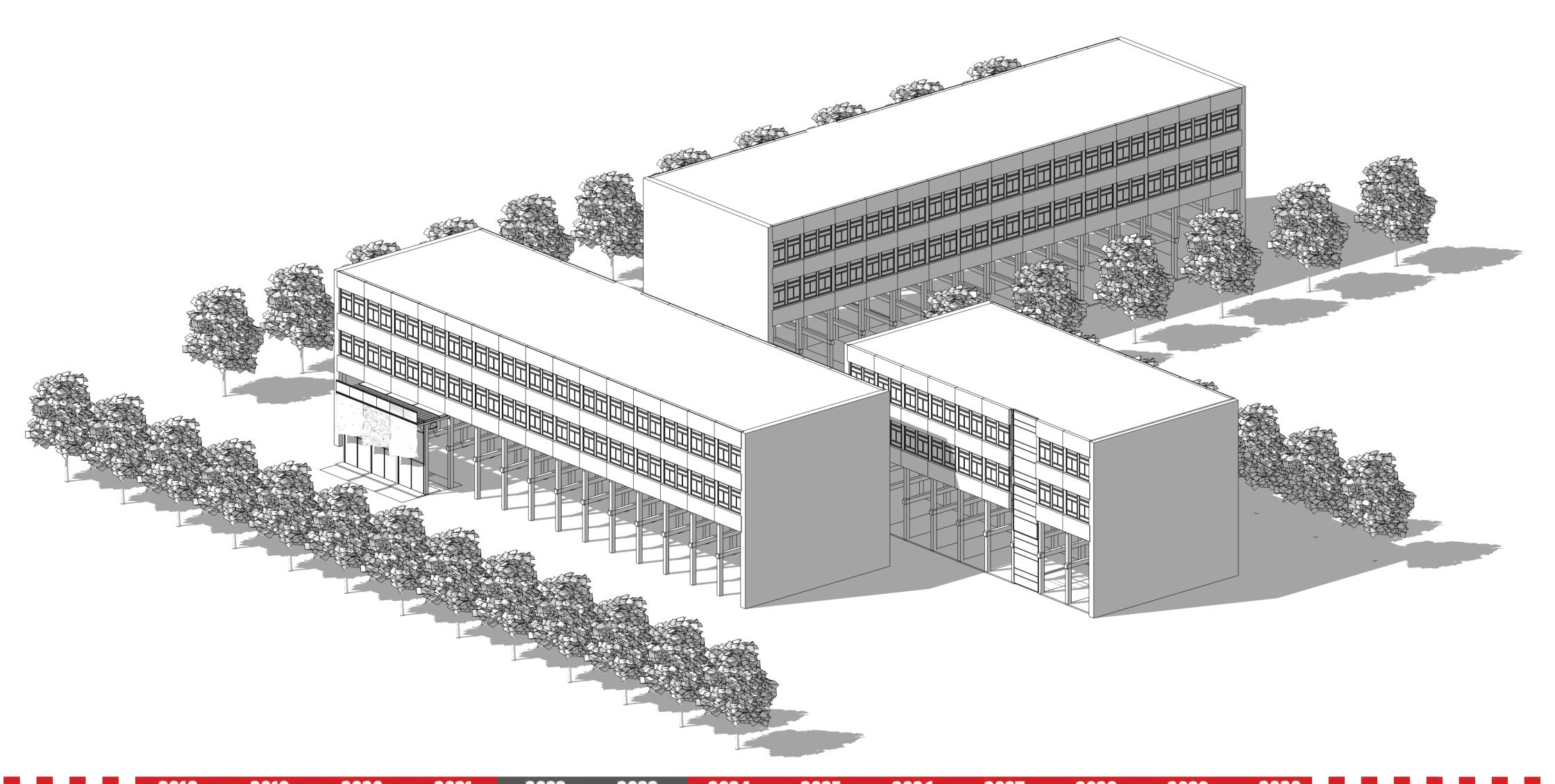
2028

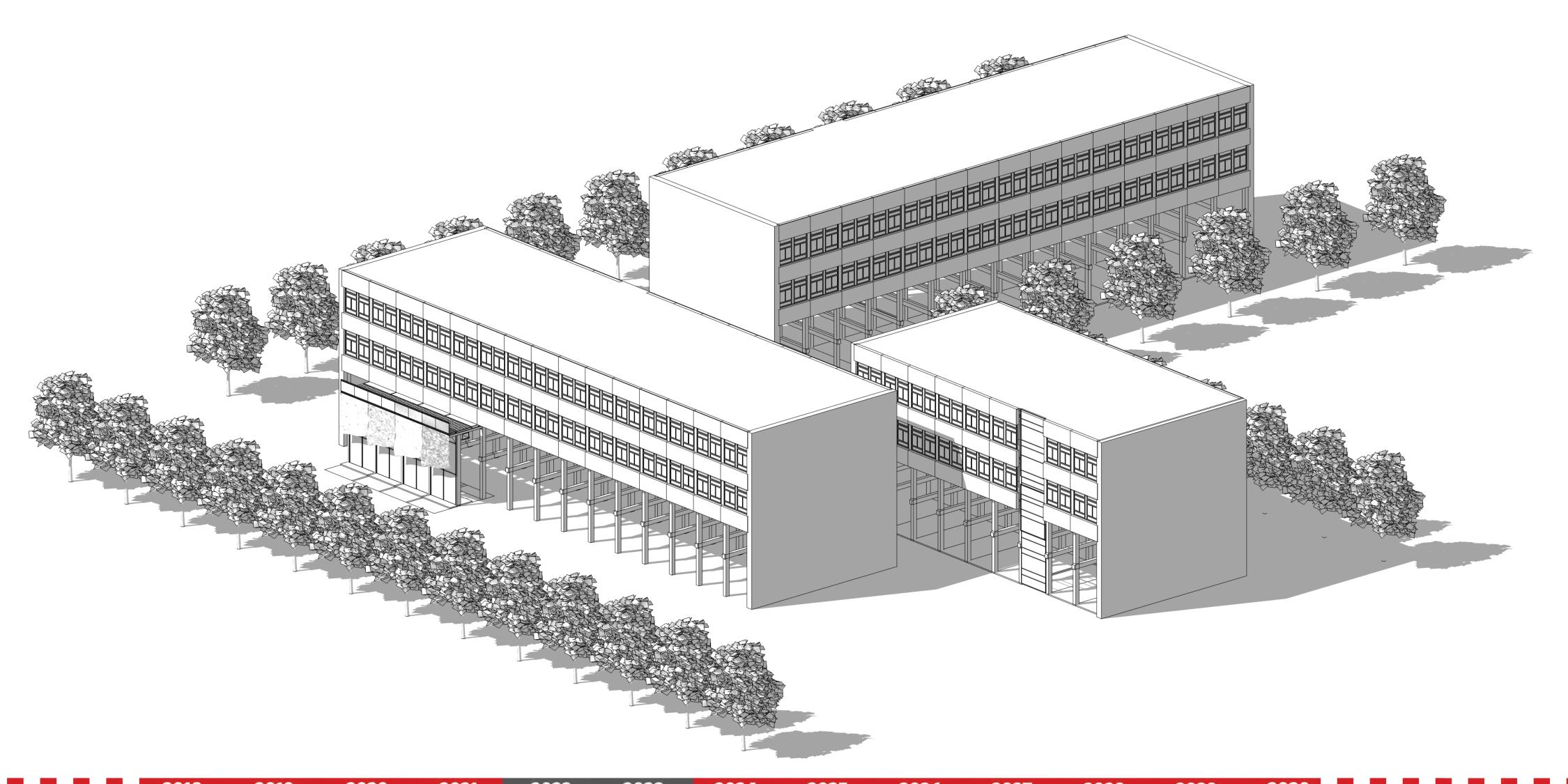


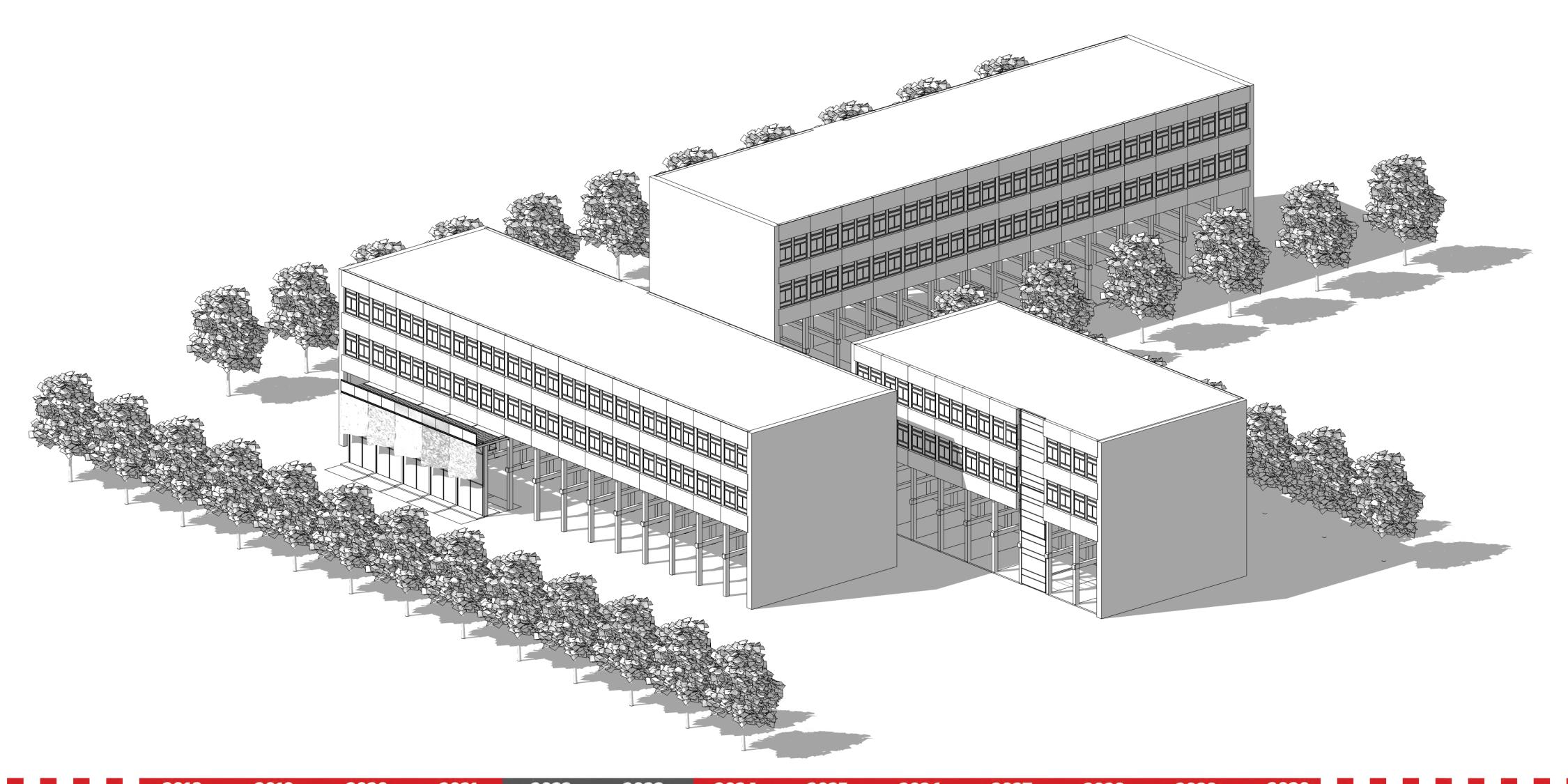


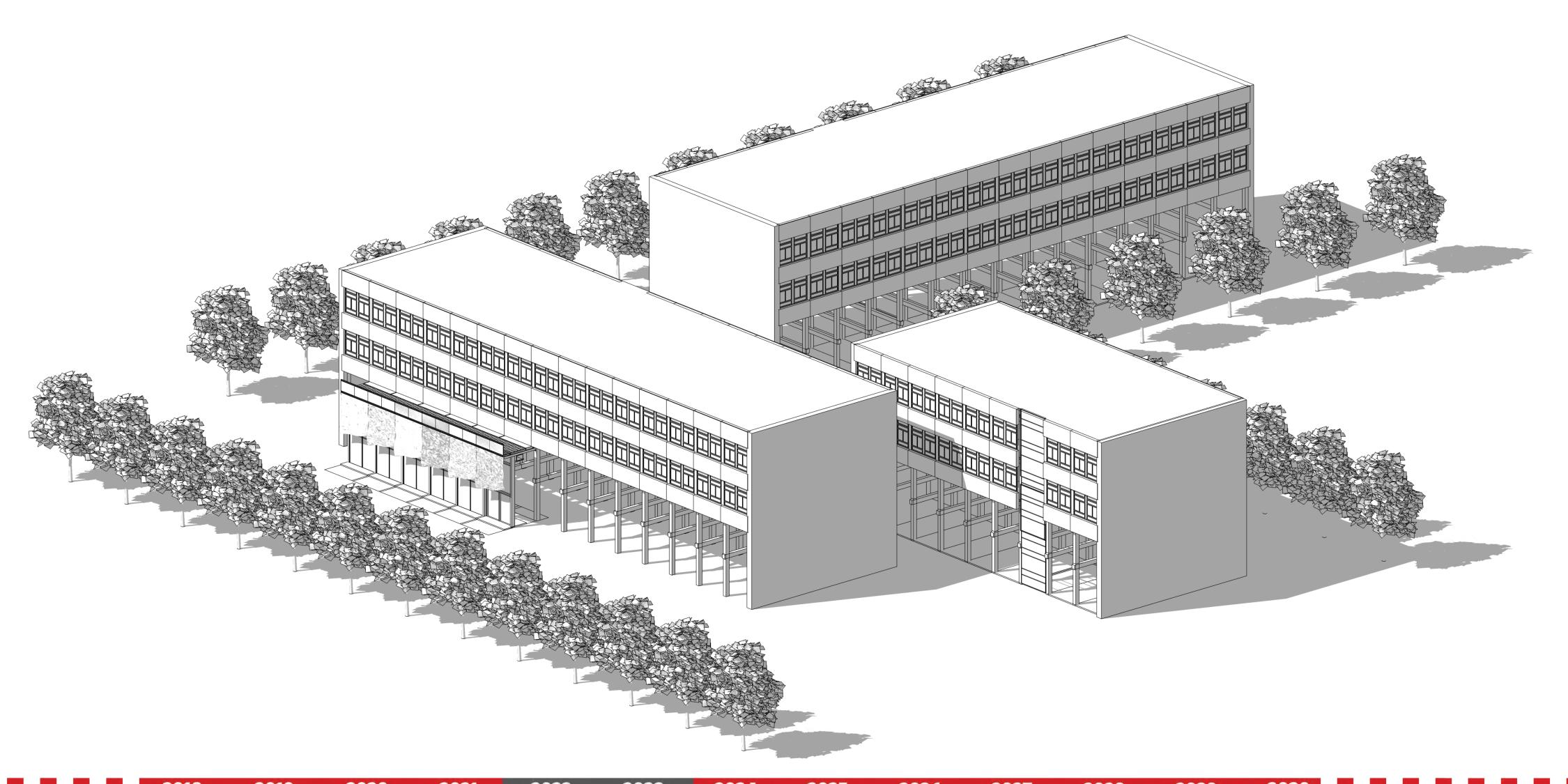


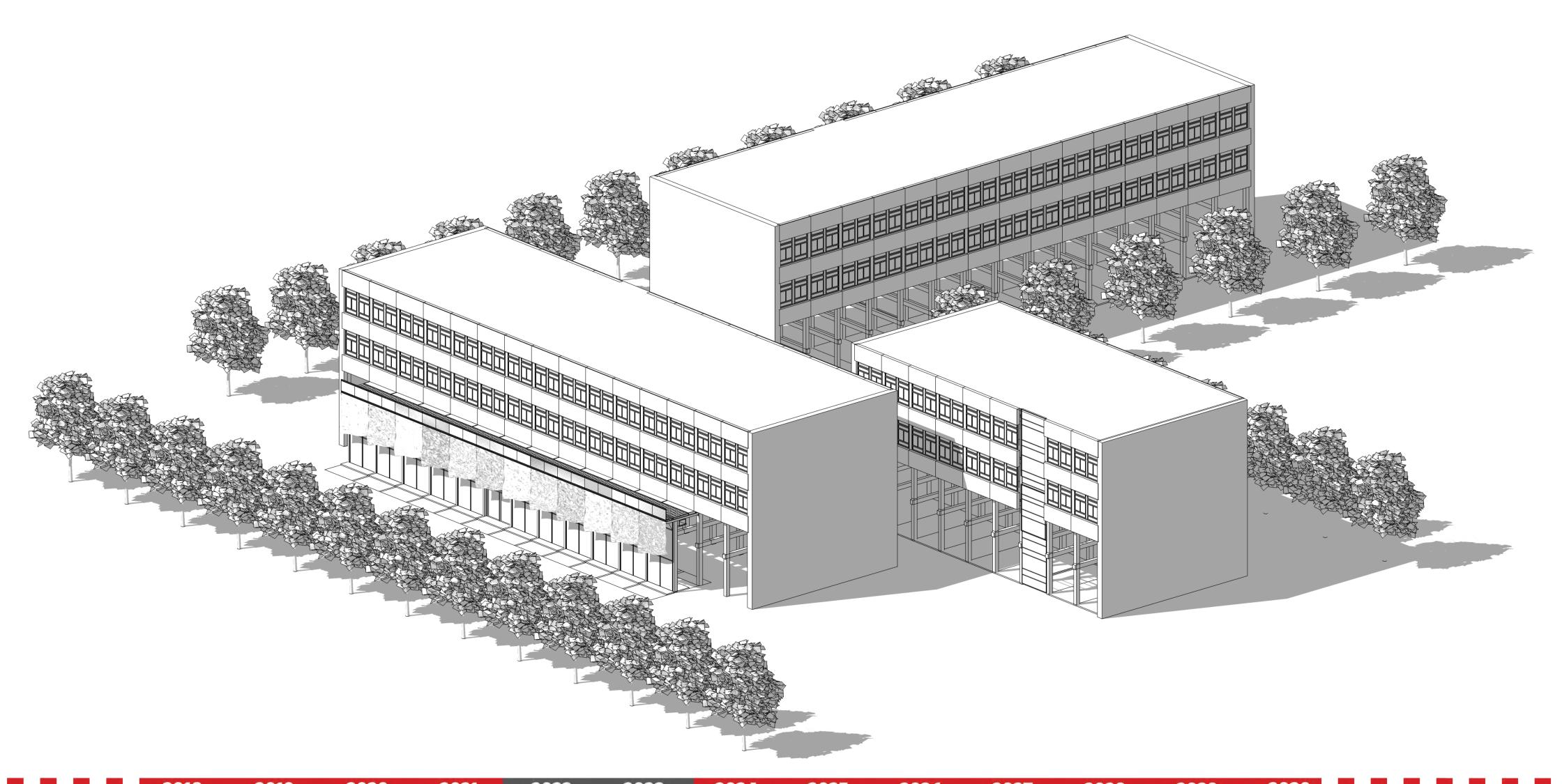


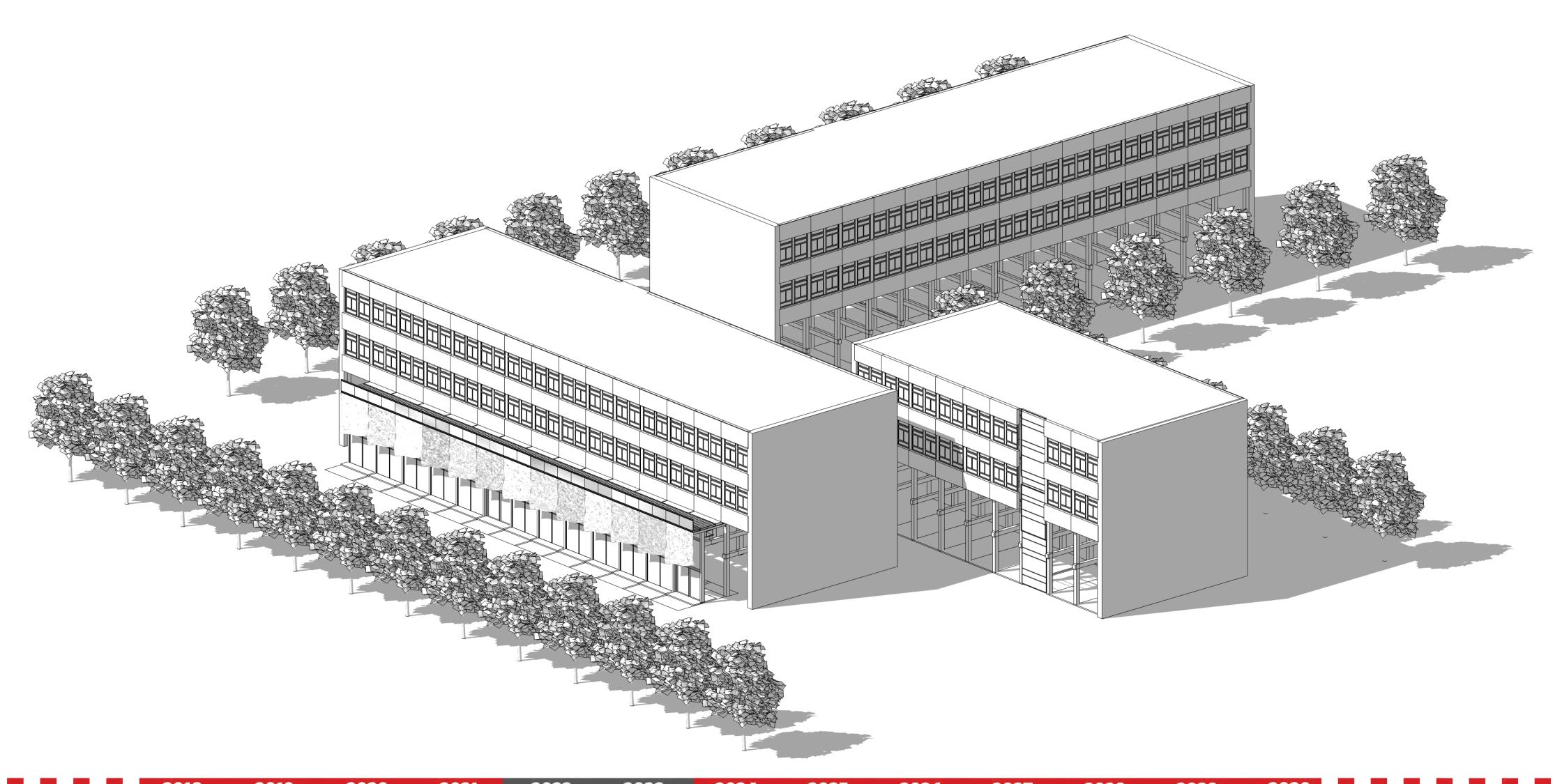


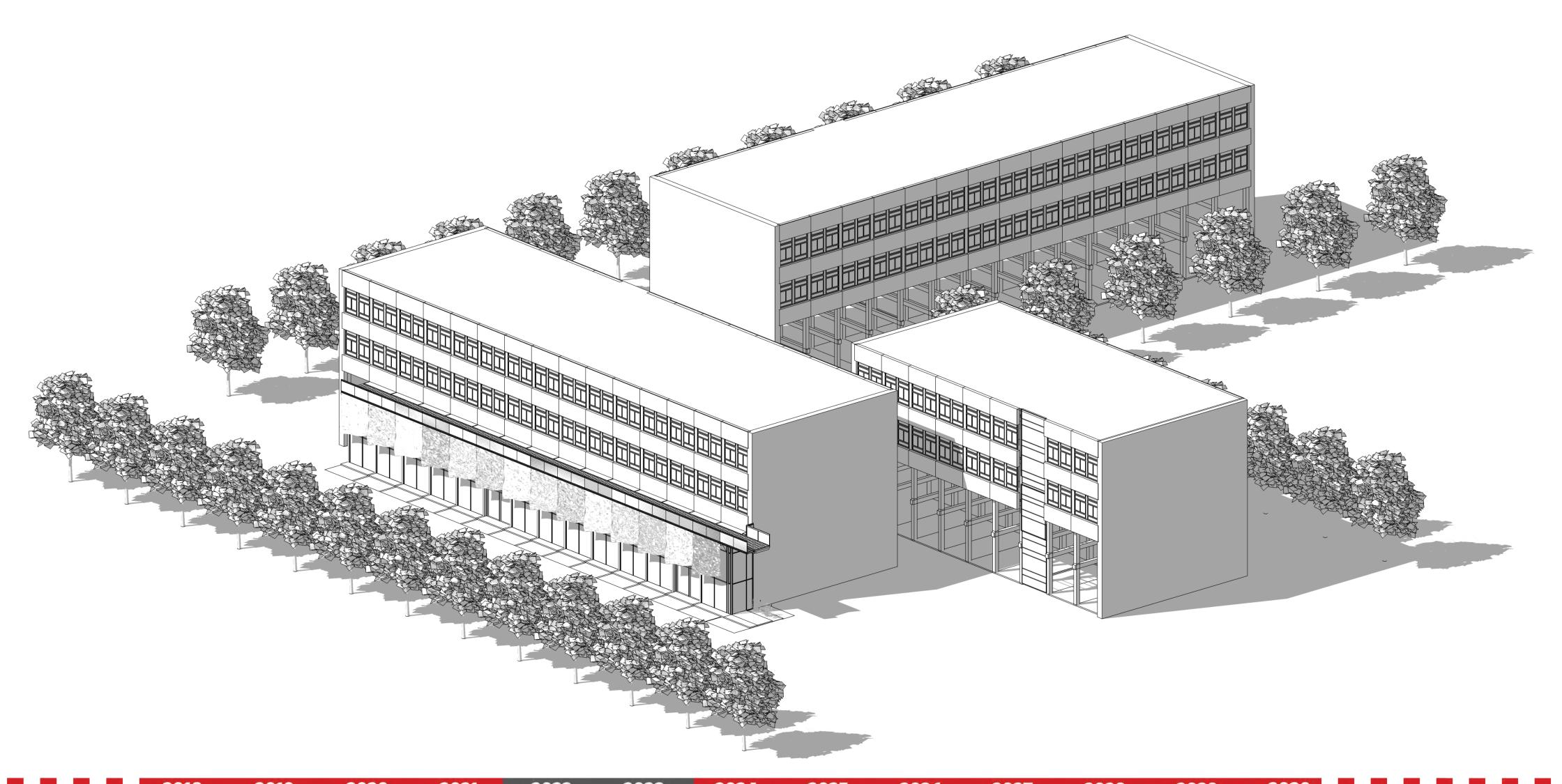


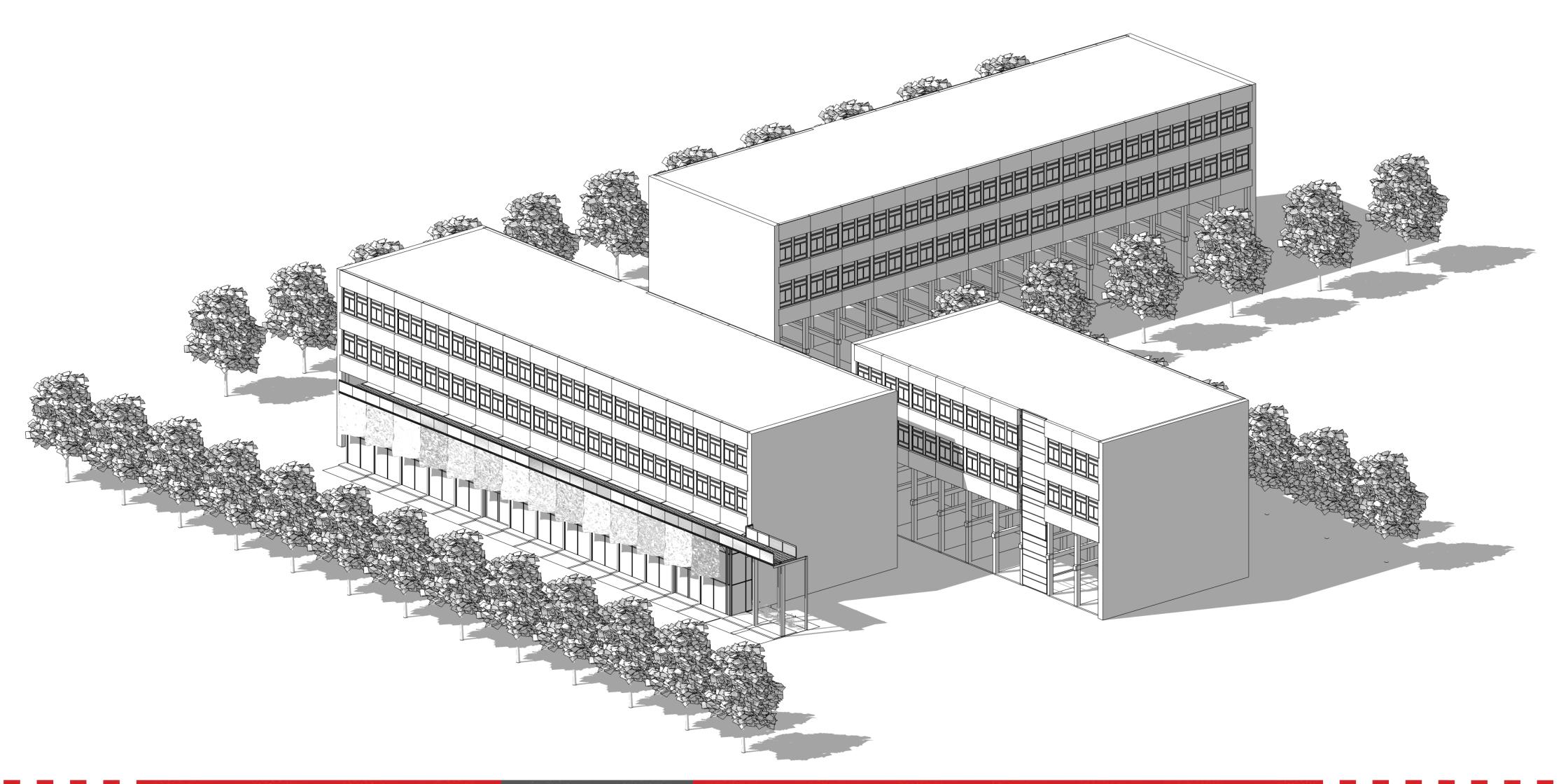


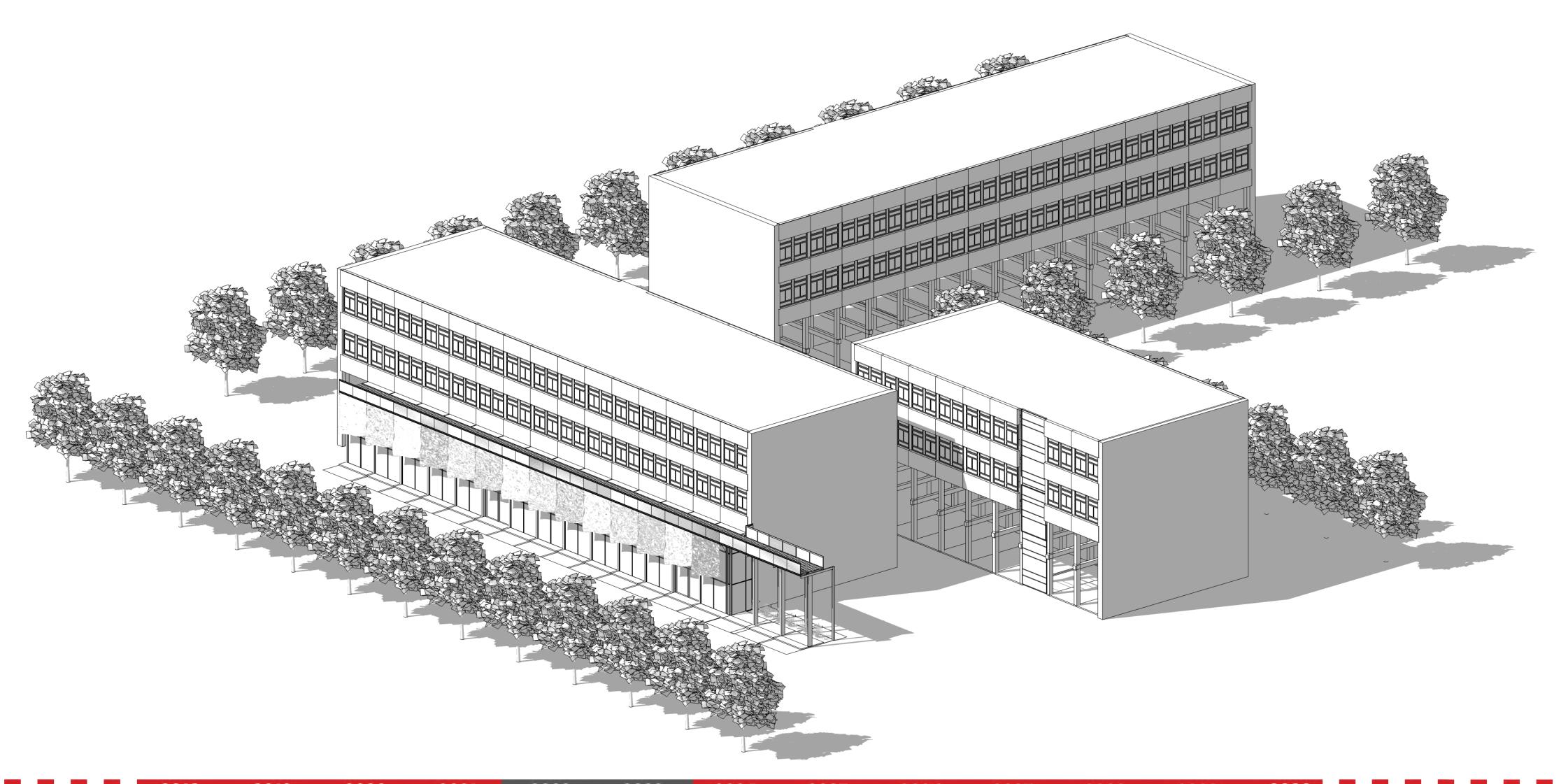


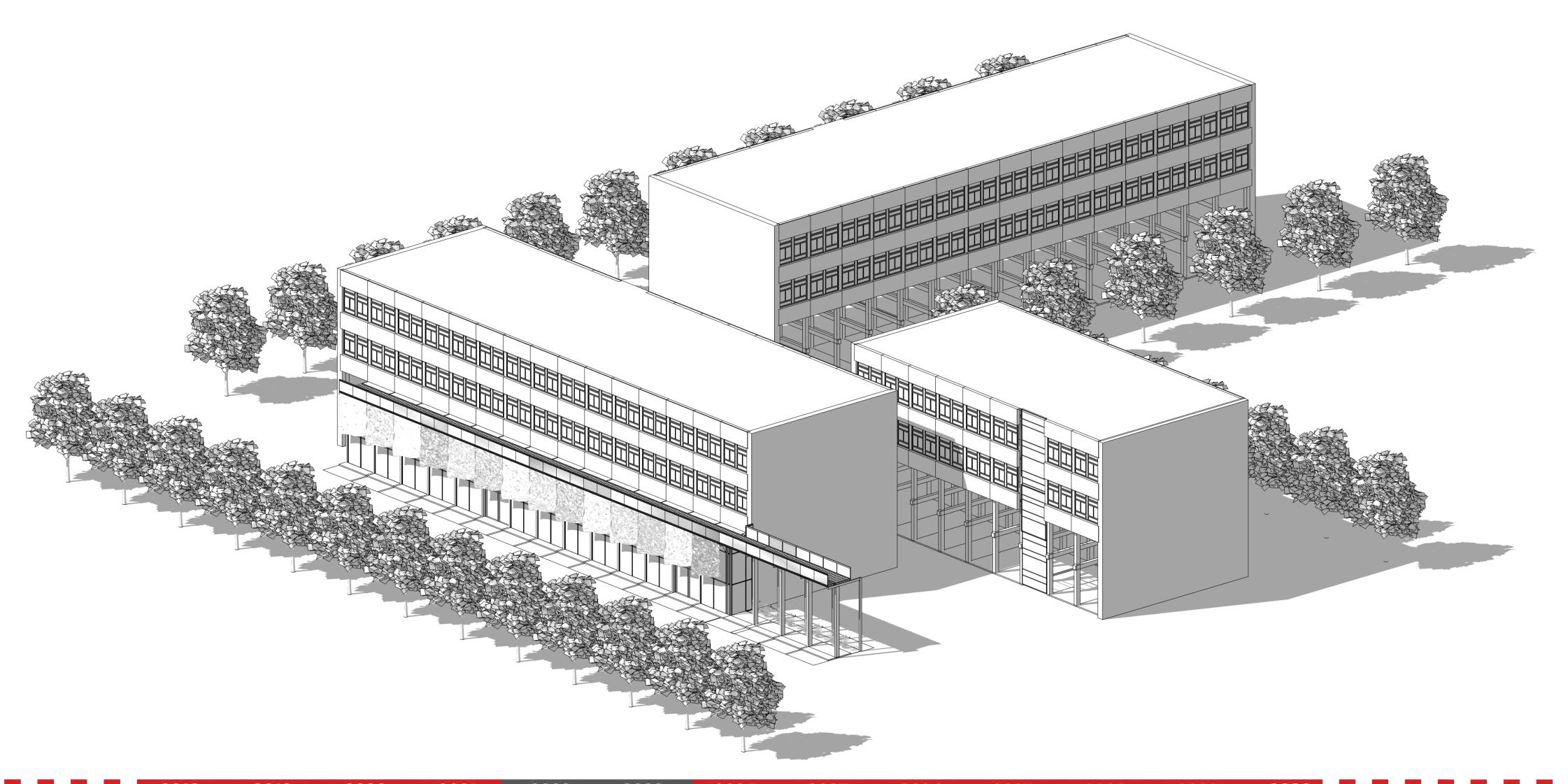


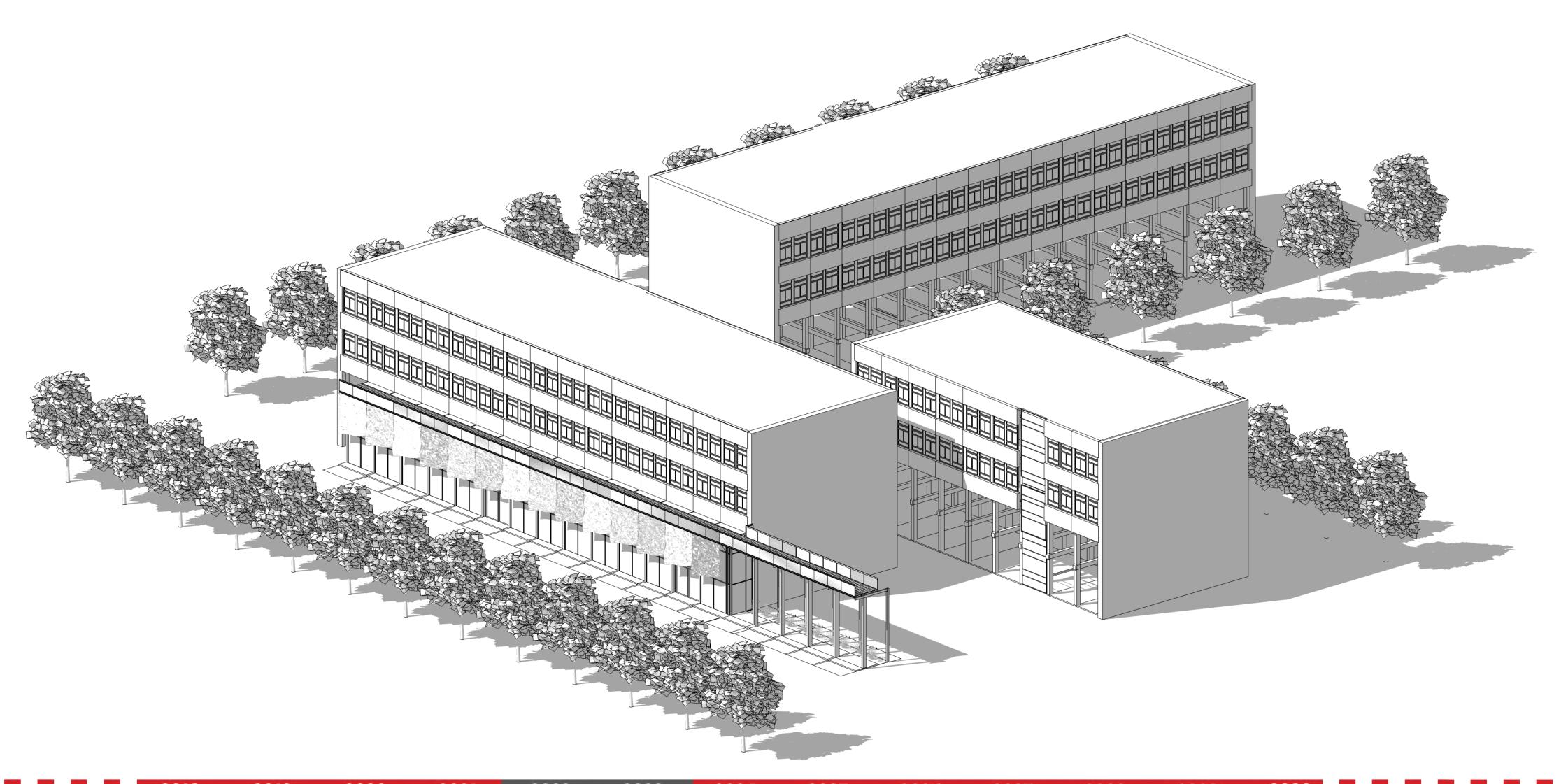


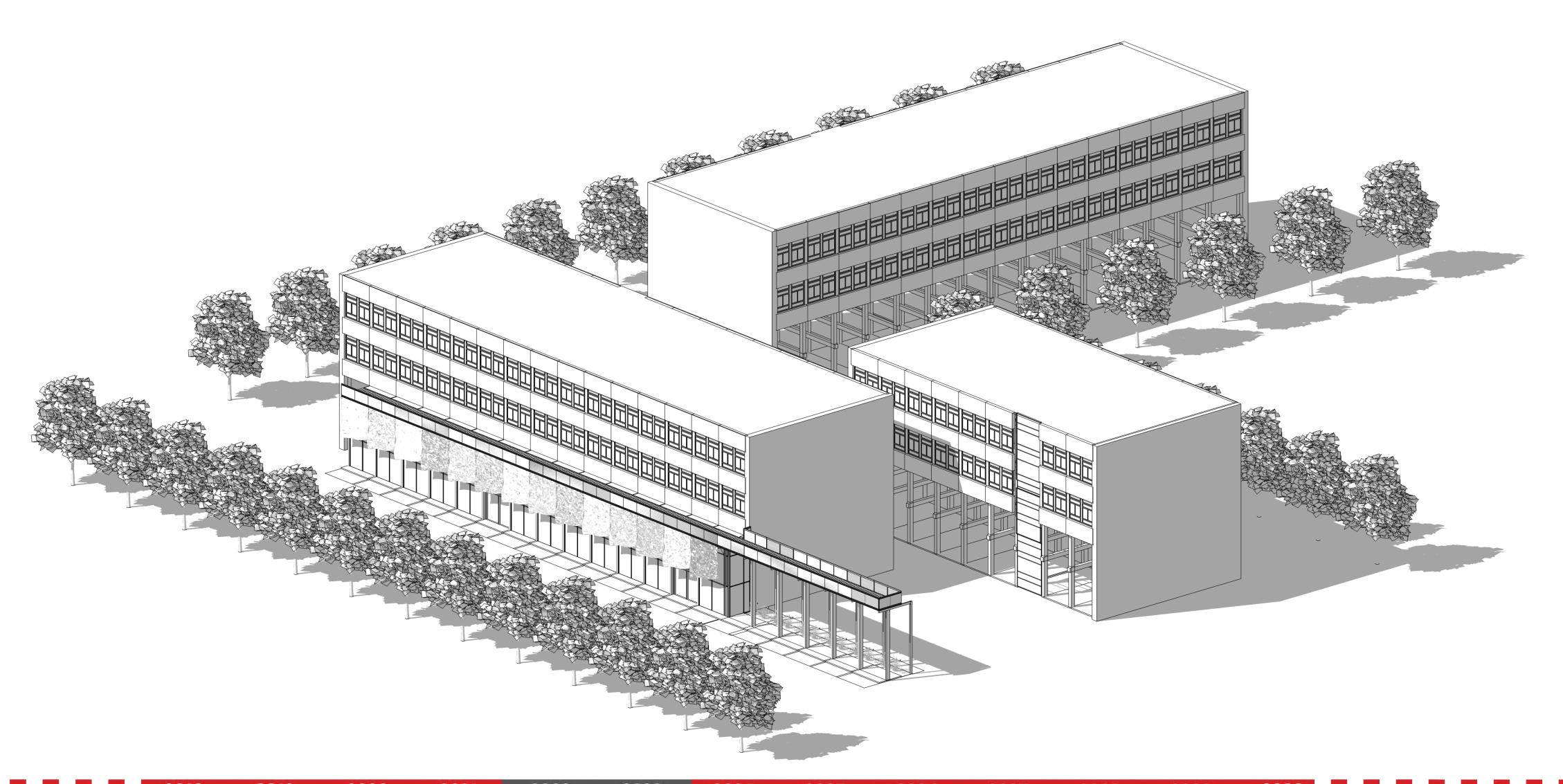


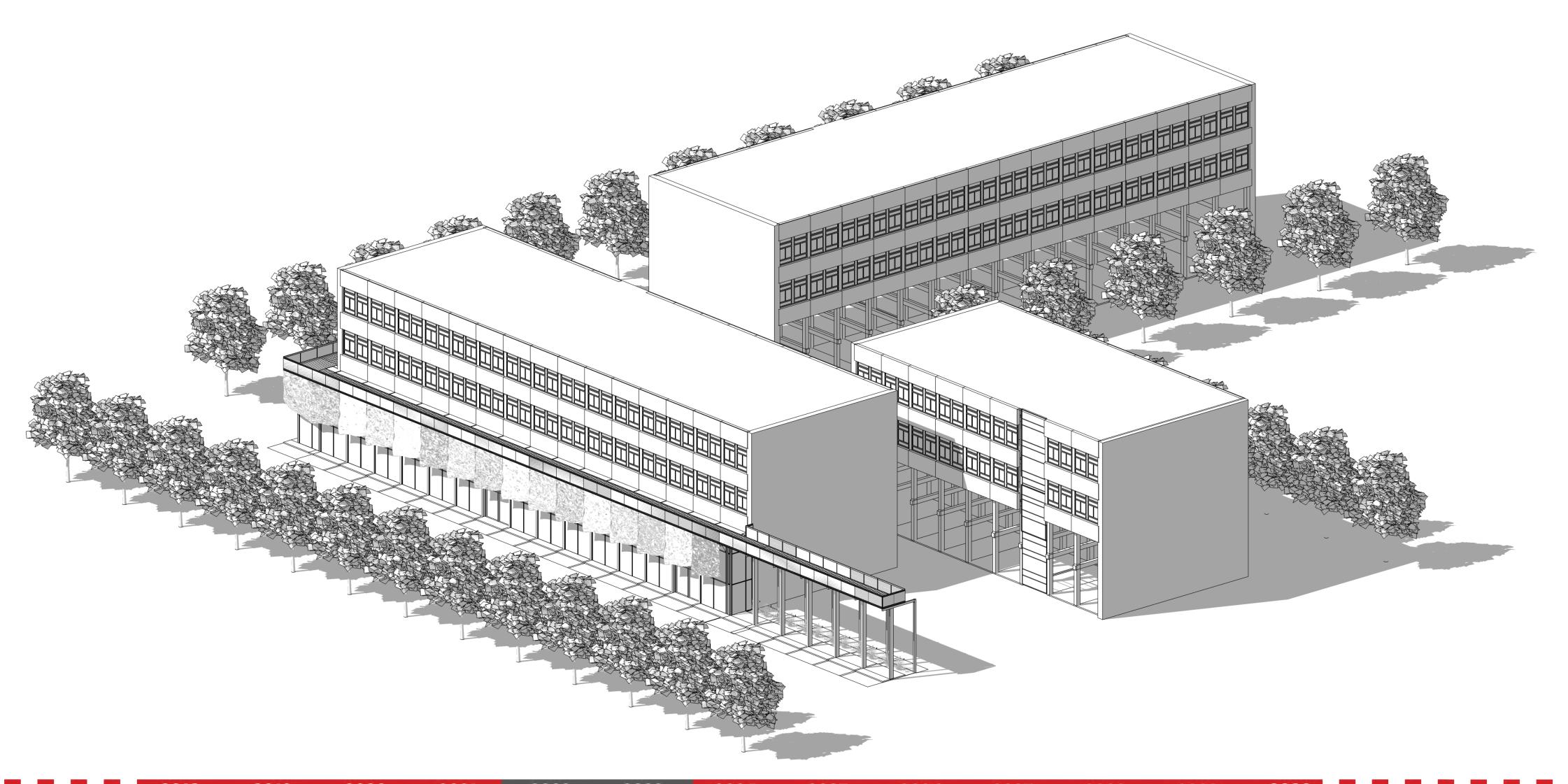


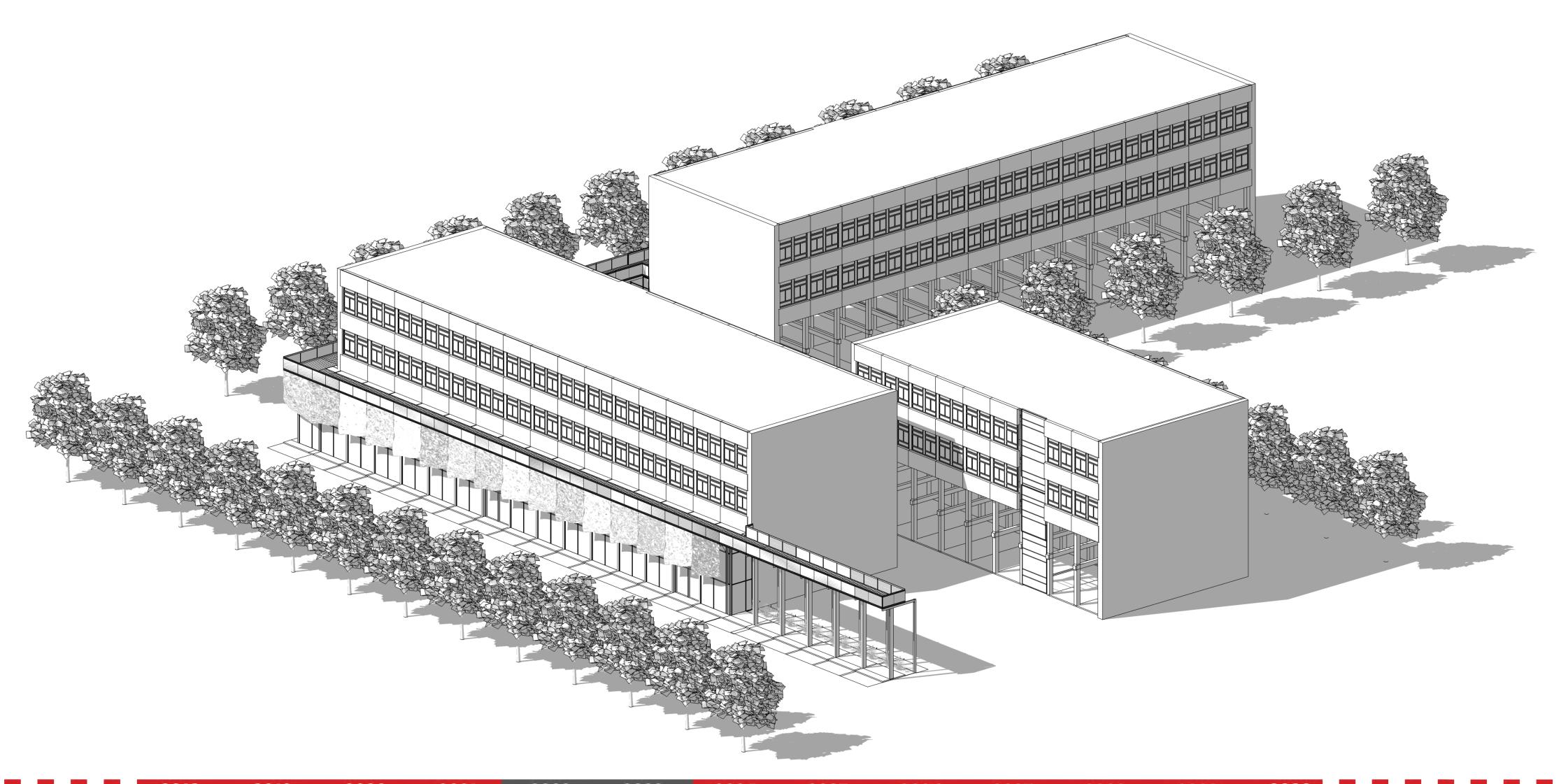


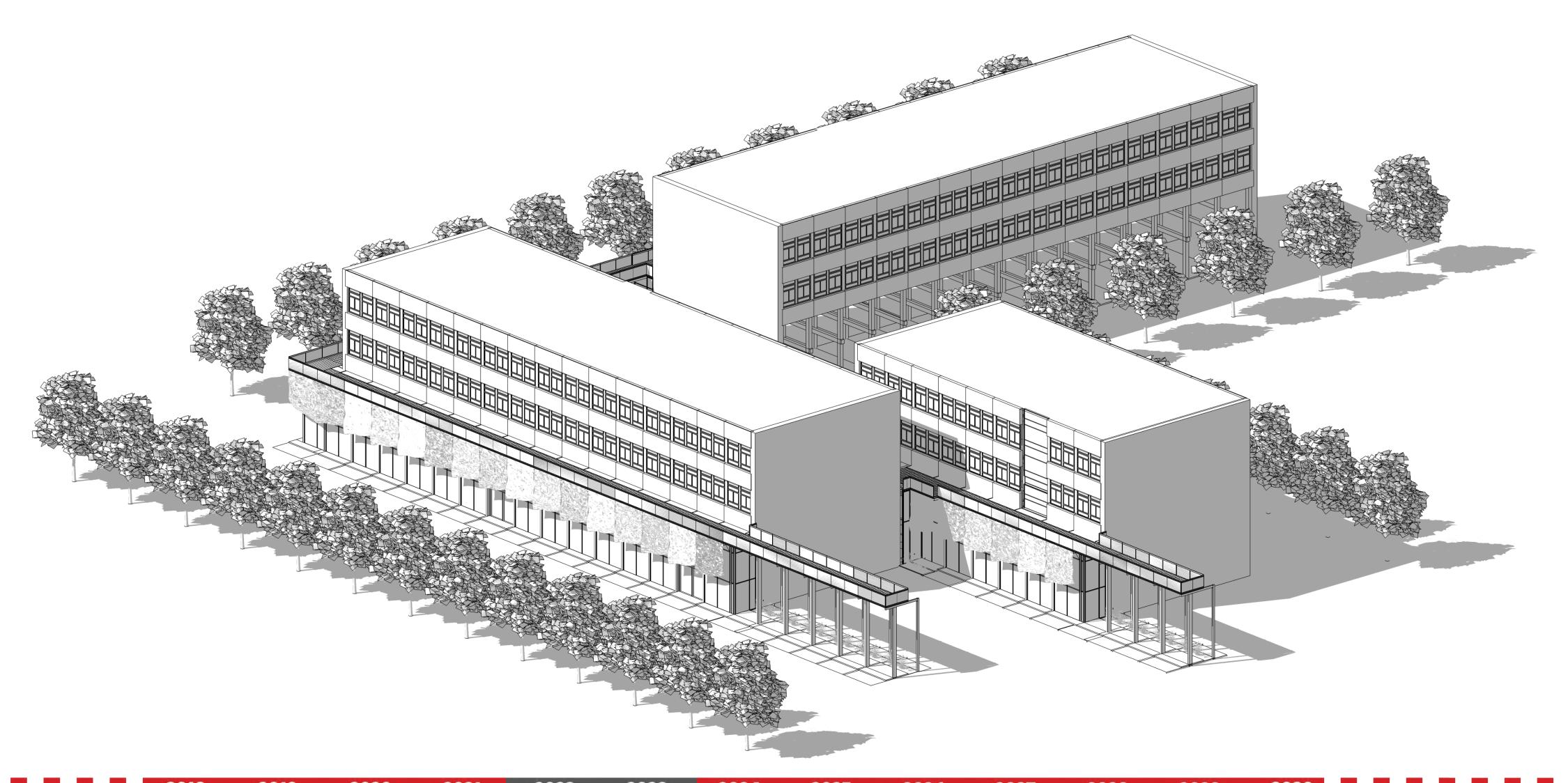


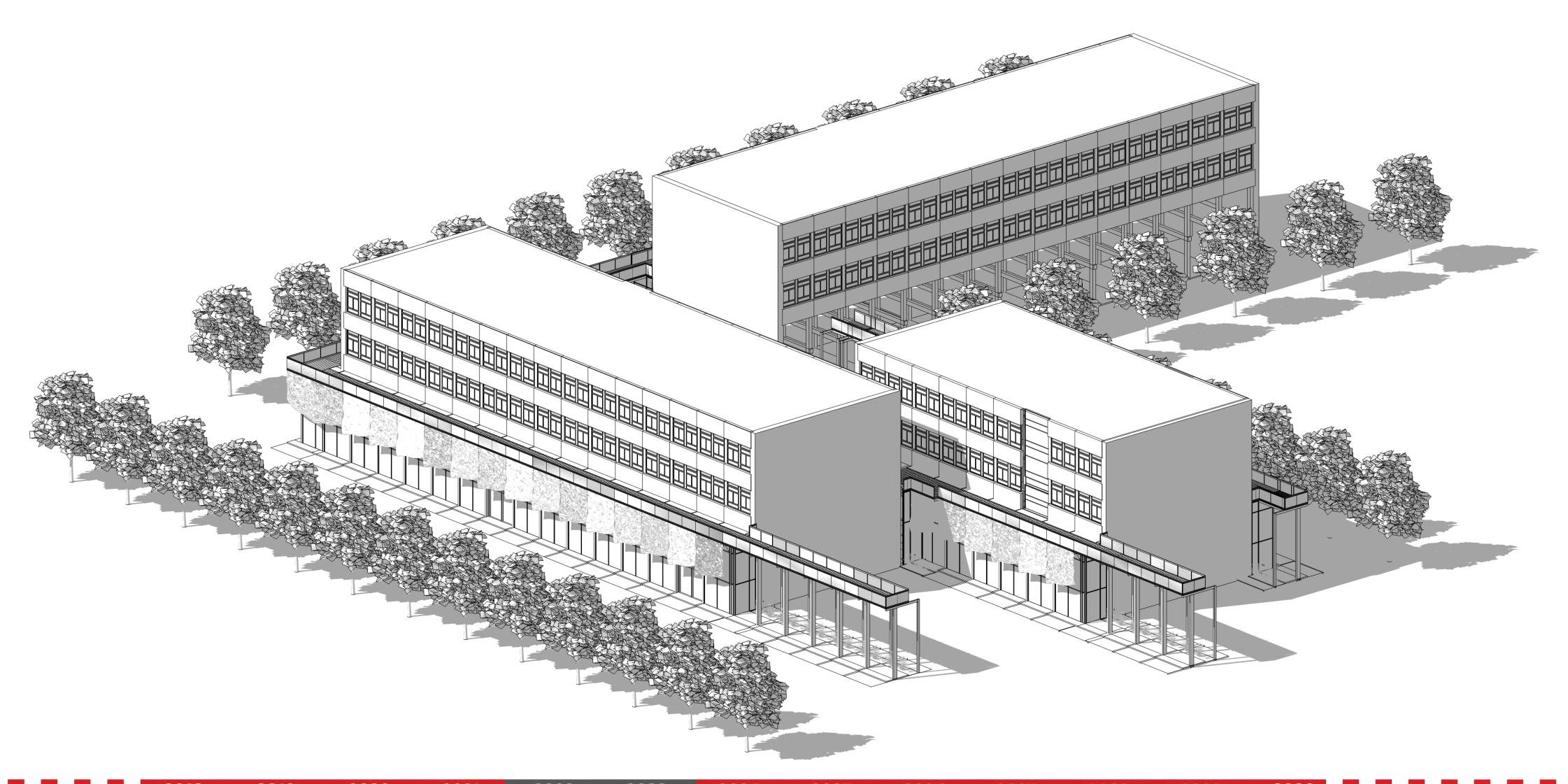


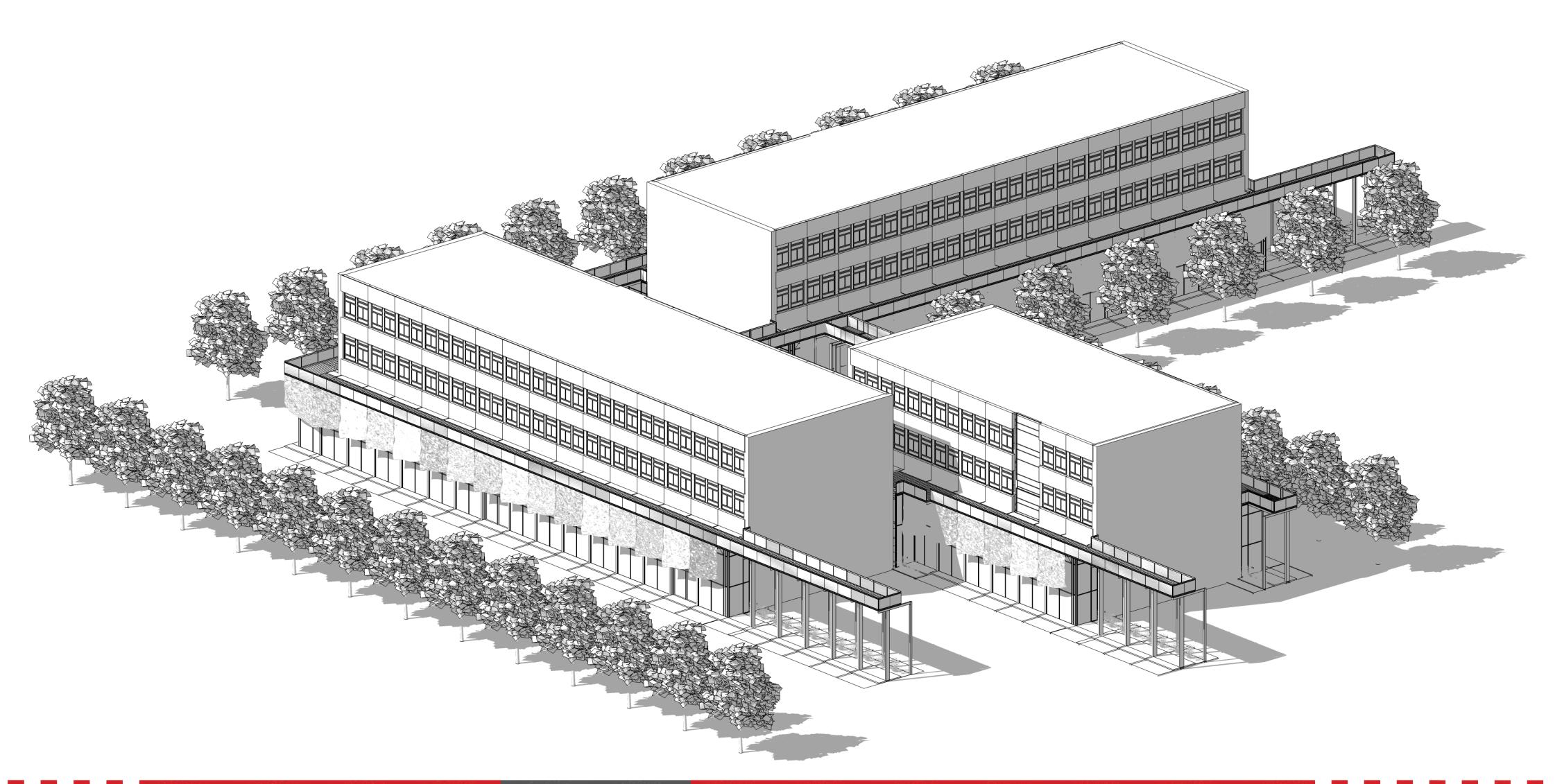


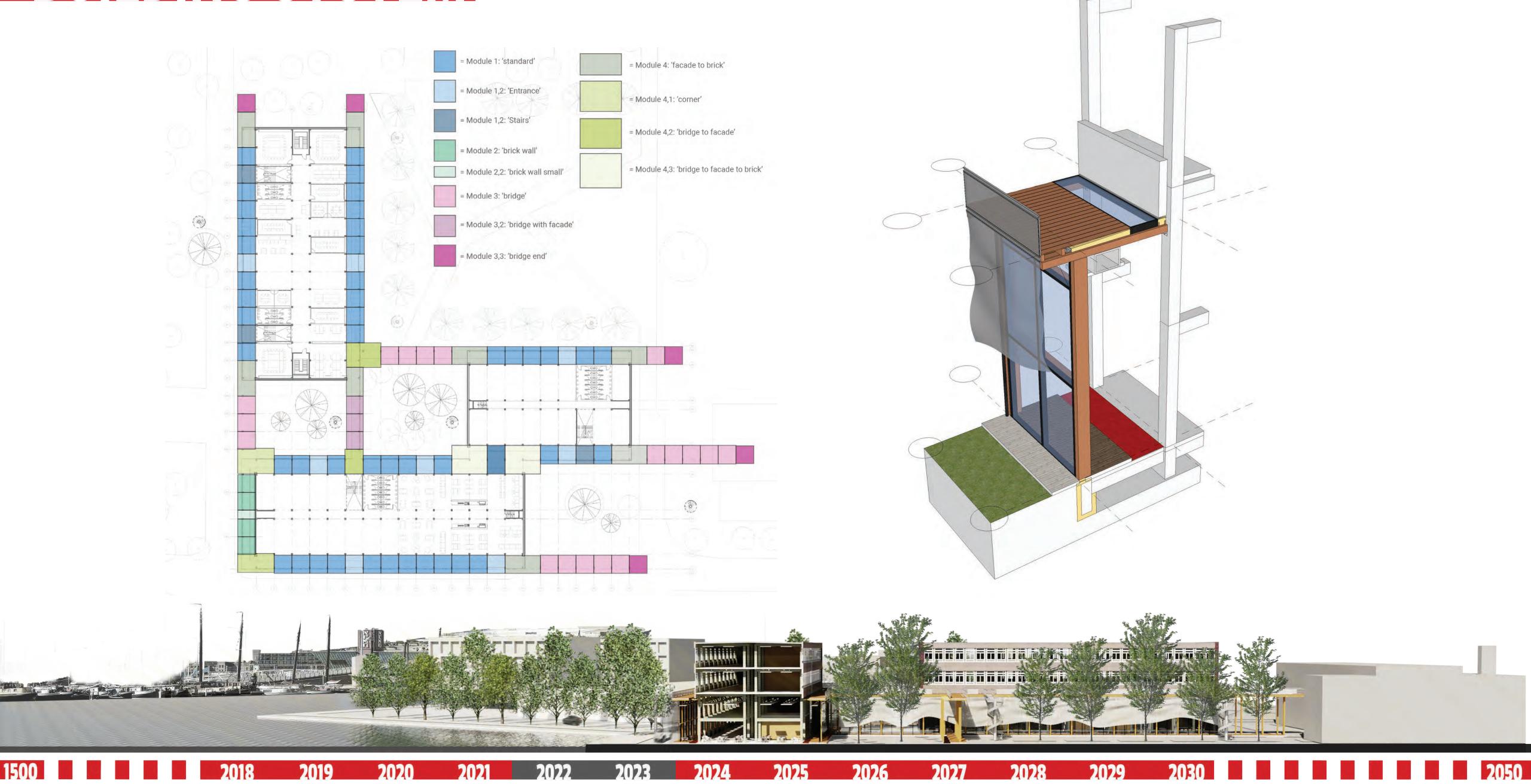




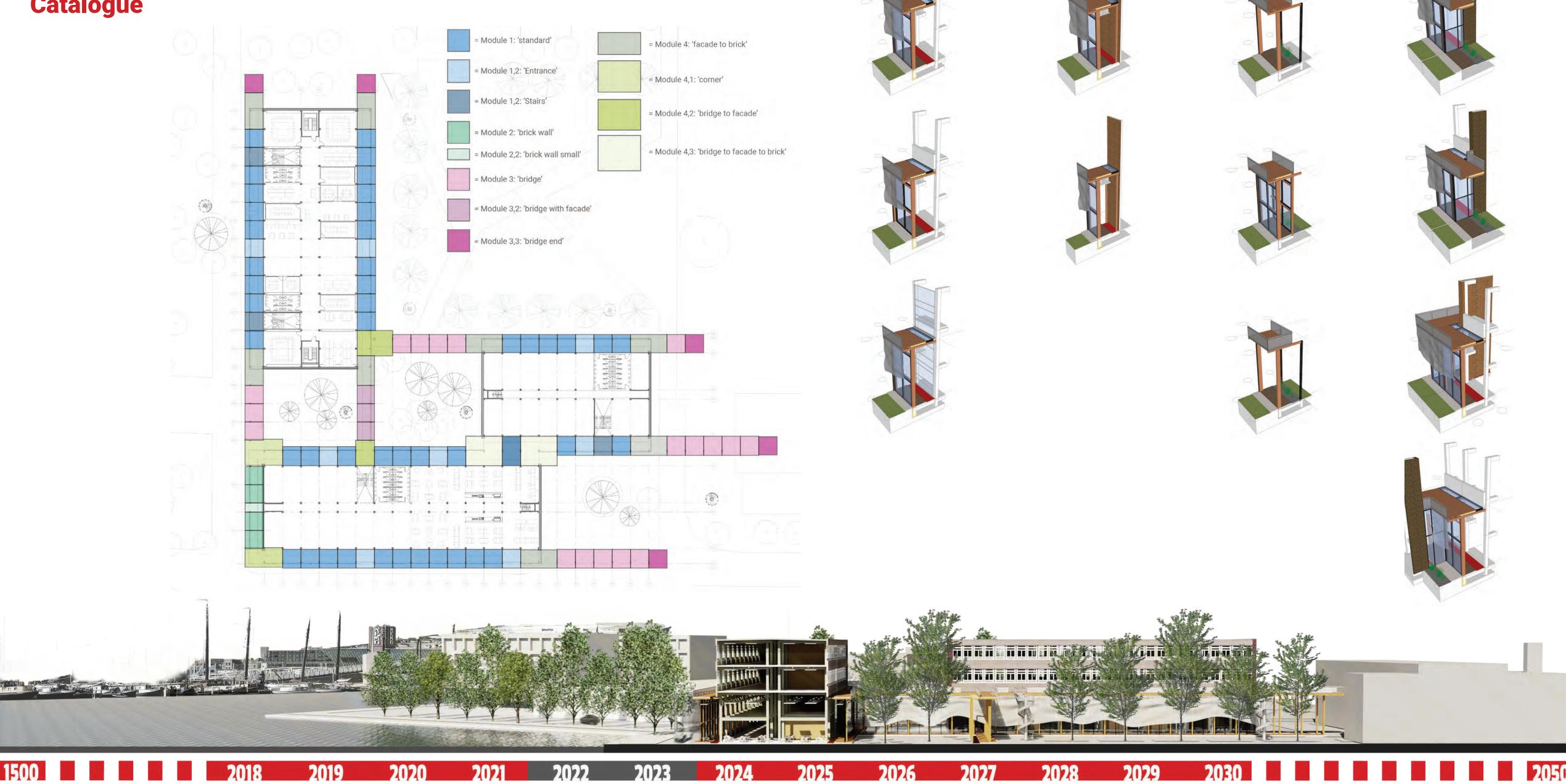








### Catalogue



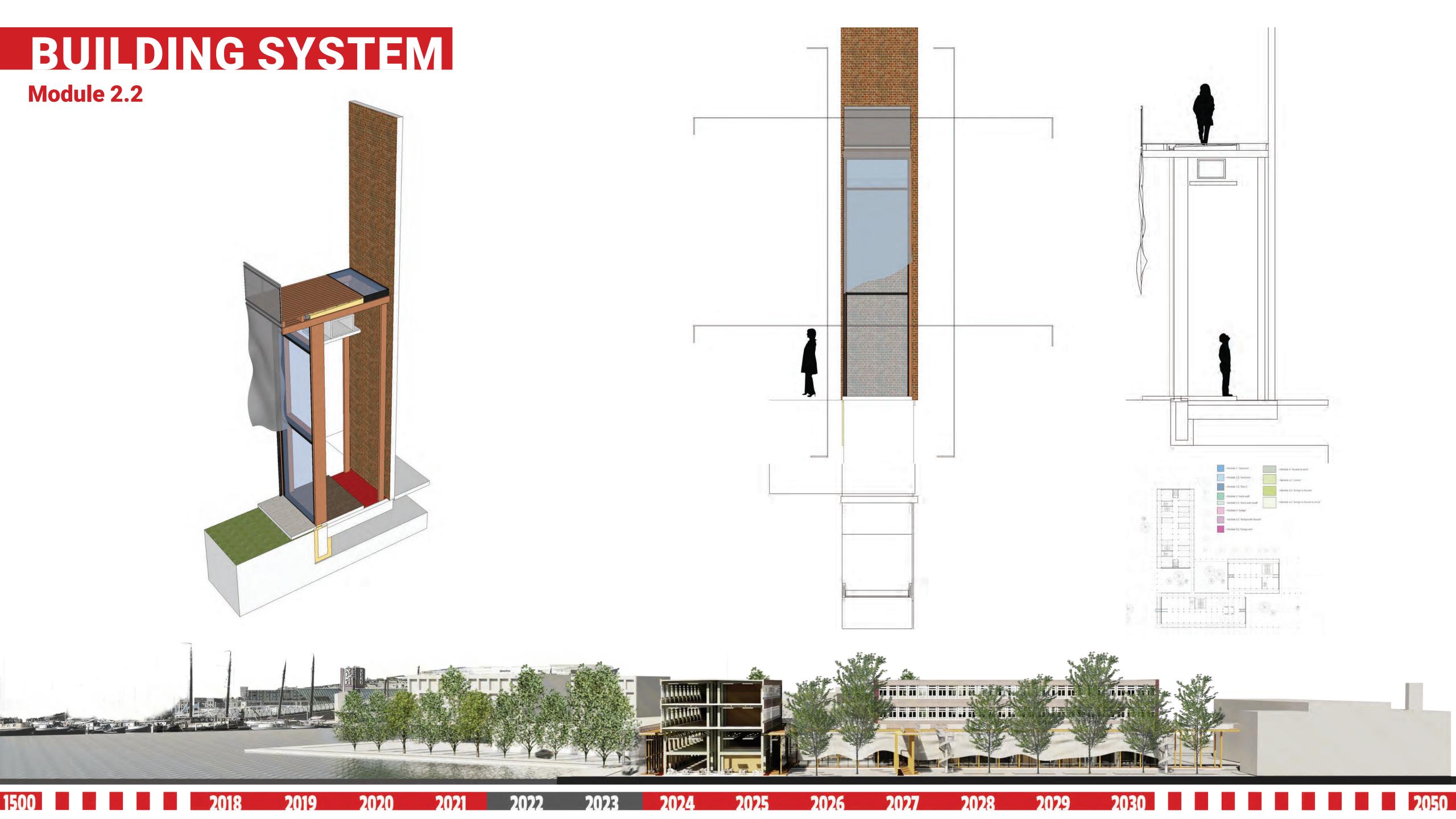
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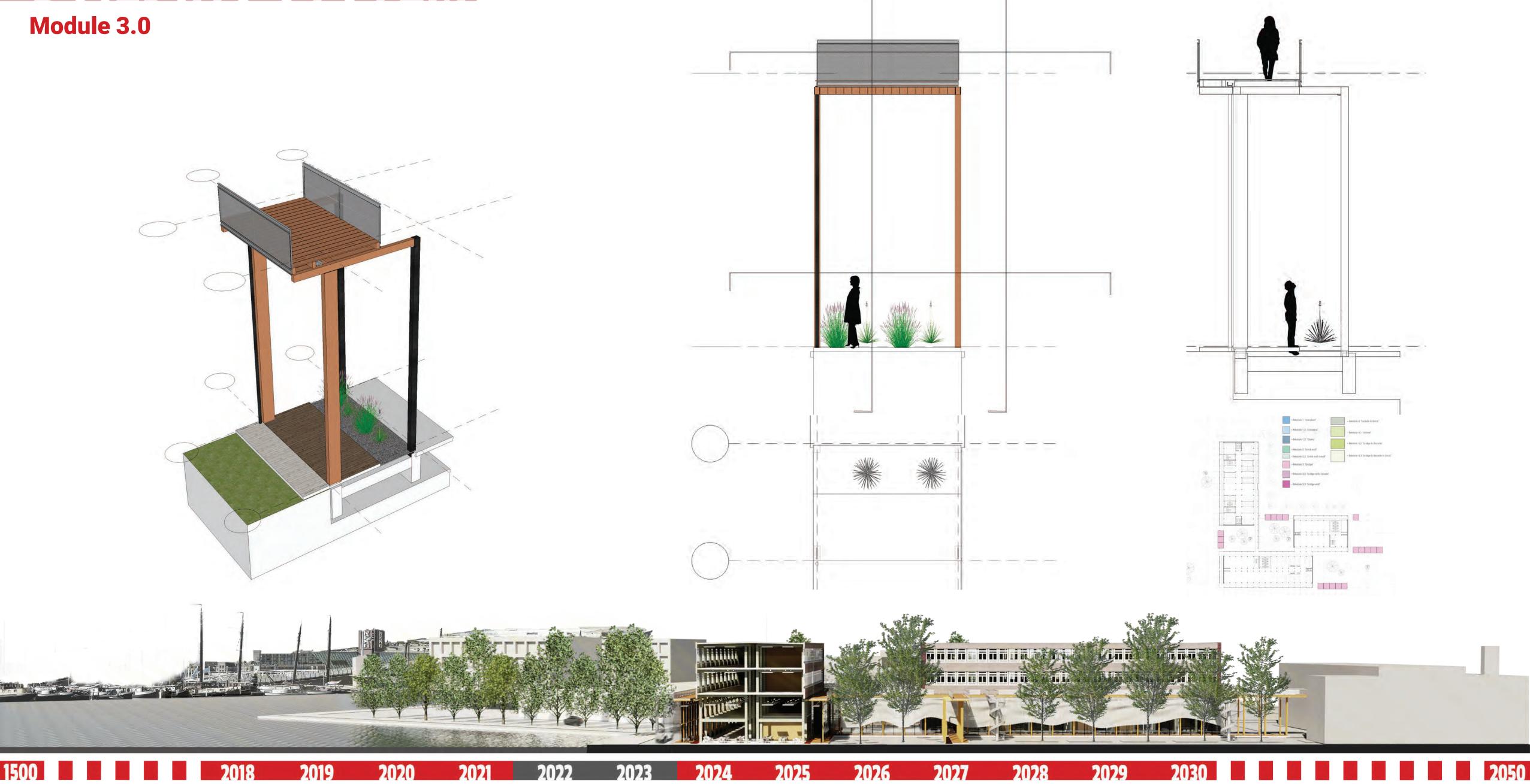
# BUILDING SYSTEM Module 1.0

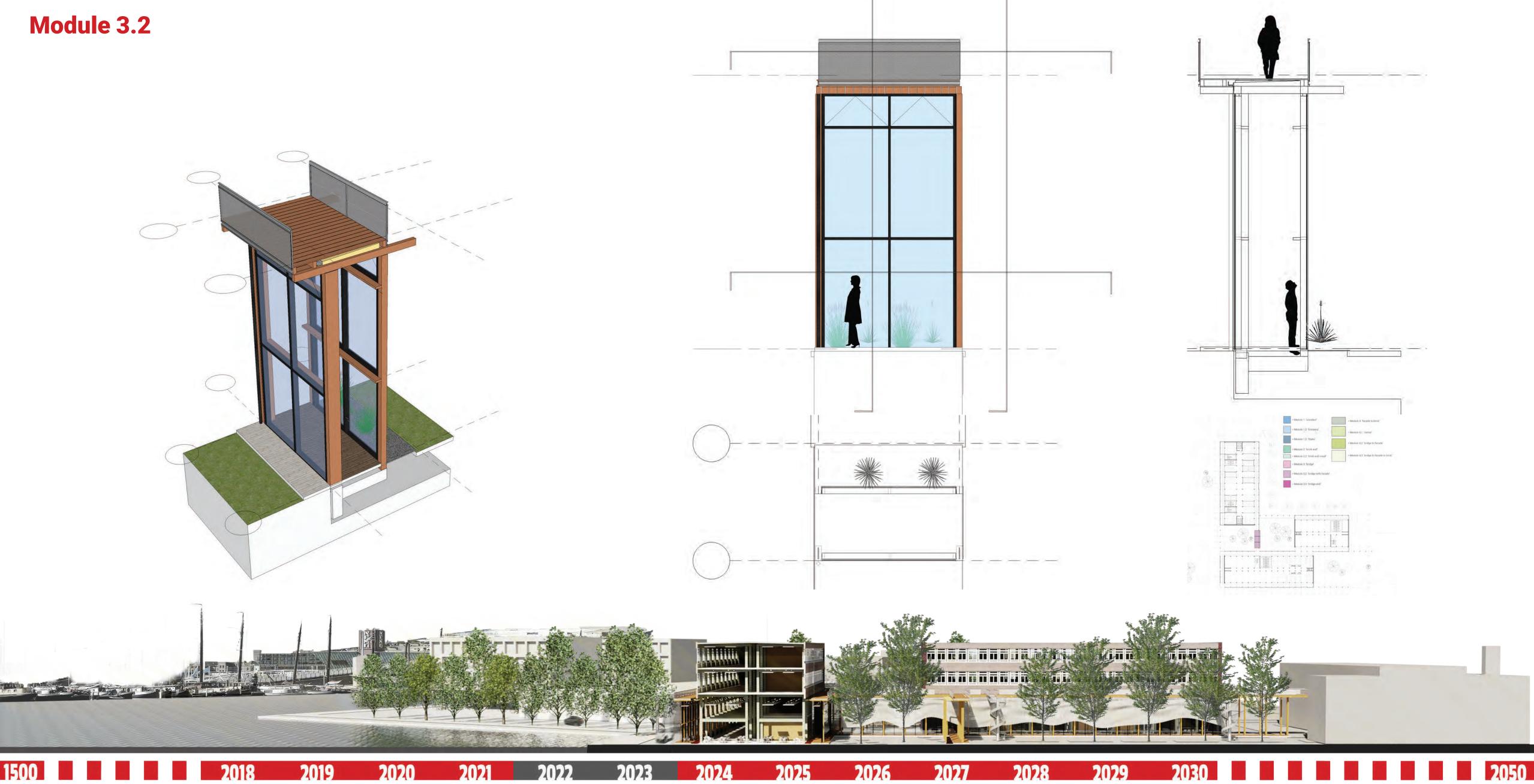
# BUILDING SYSTEM Module 1.2 1500 2018 2027 2028

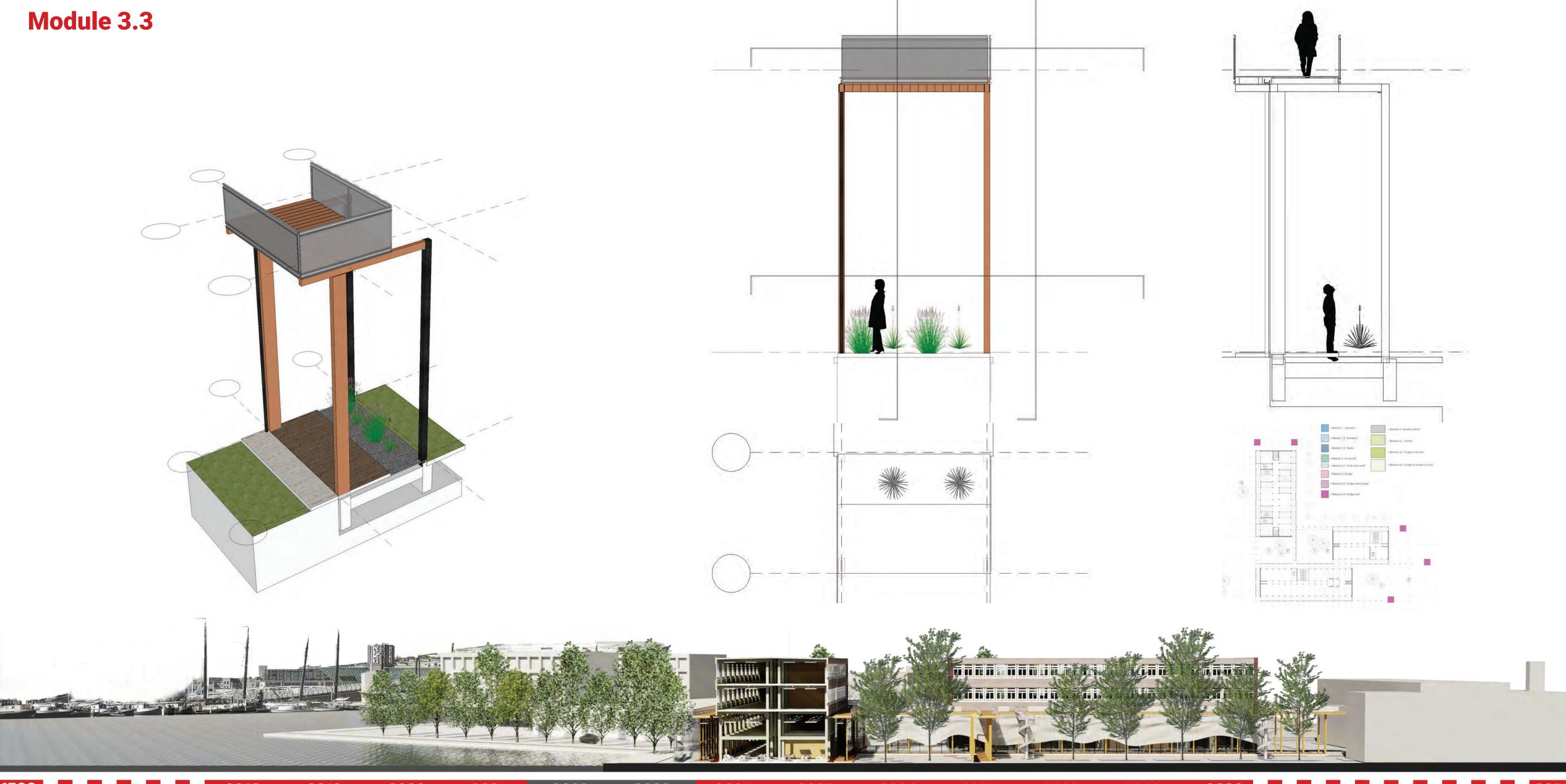
# BUILDING SYSTEM Module 1.3 1500 2018 2027 2028

# BUILDING SYSTEM Module 2.0





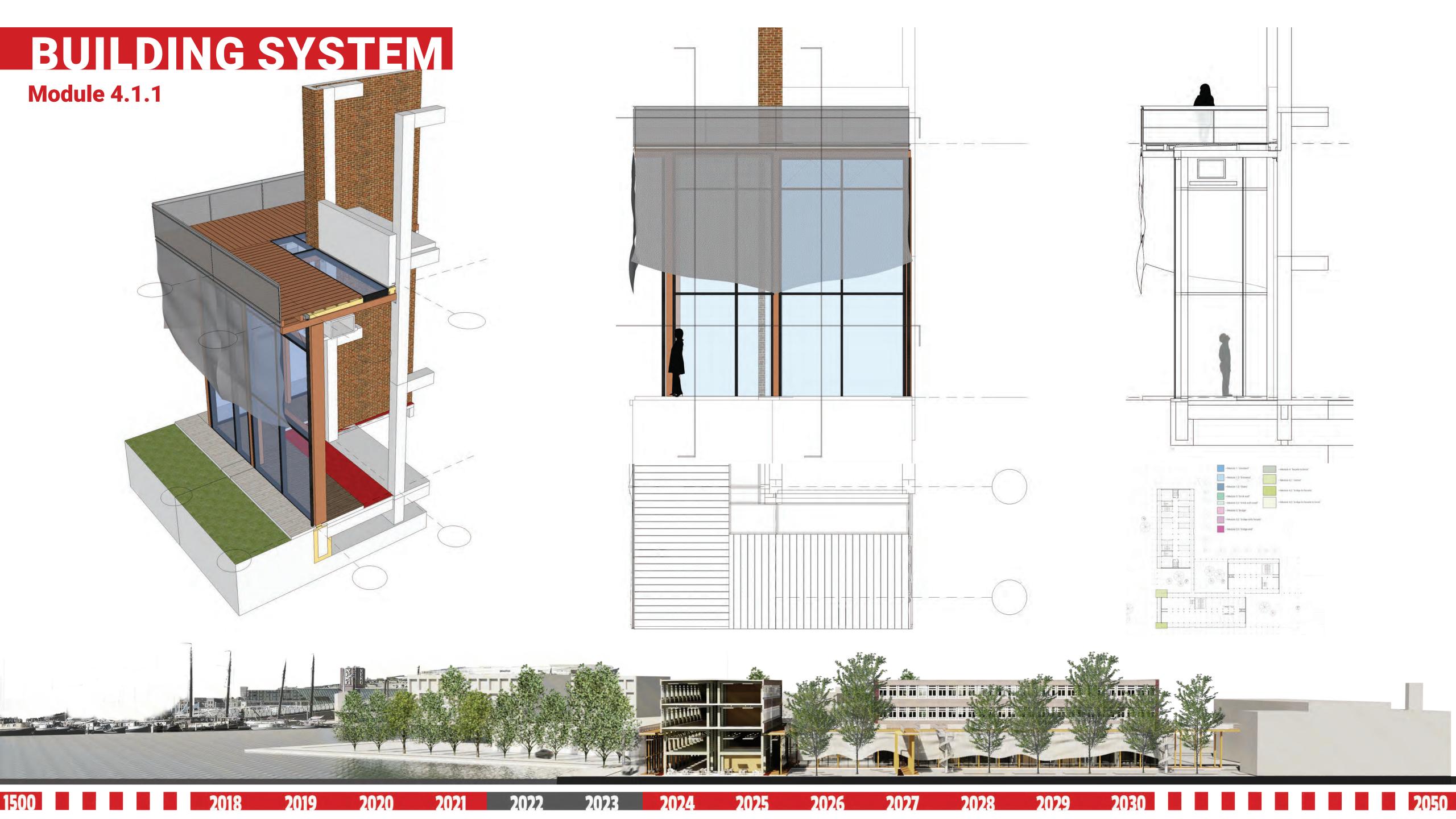




# BUILDING SYSTEM **Module 4.0** 1500 2018 2027 2028

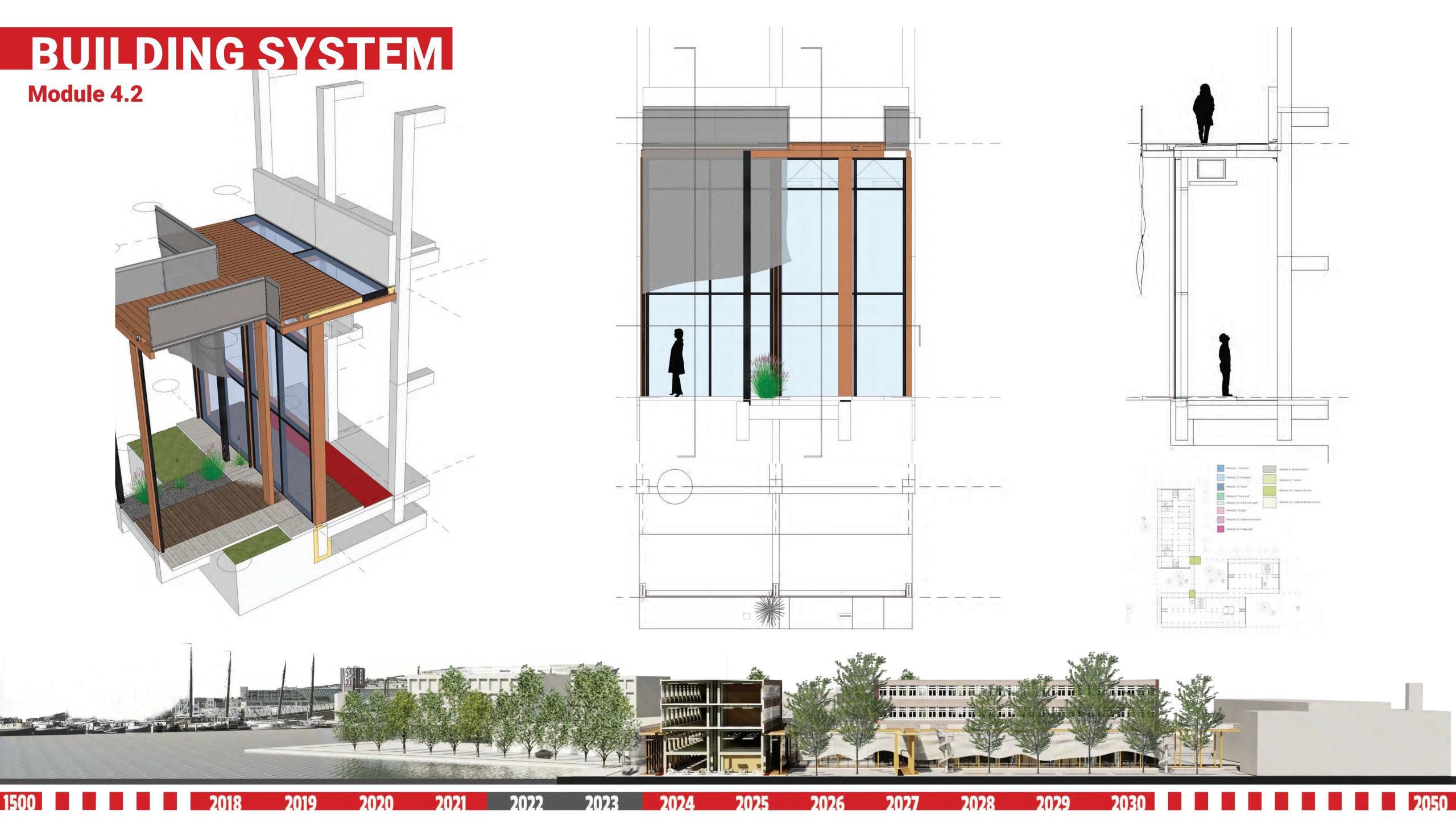
# BUILDING SYSTEM **Module 4.0** 1500 2018 2027 2028

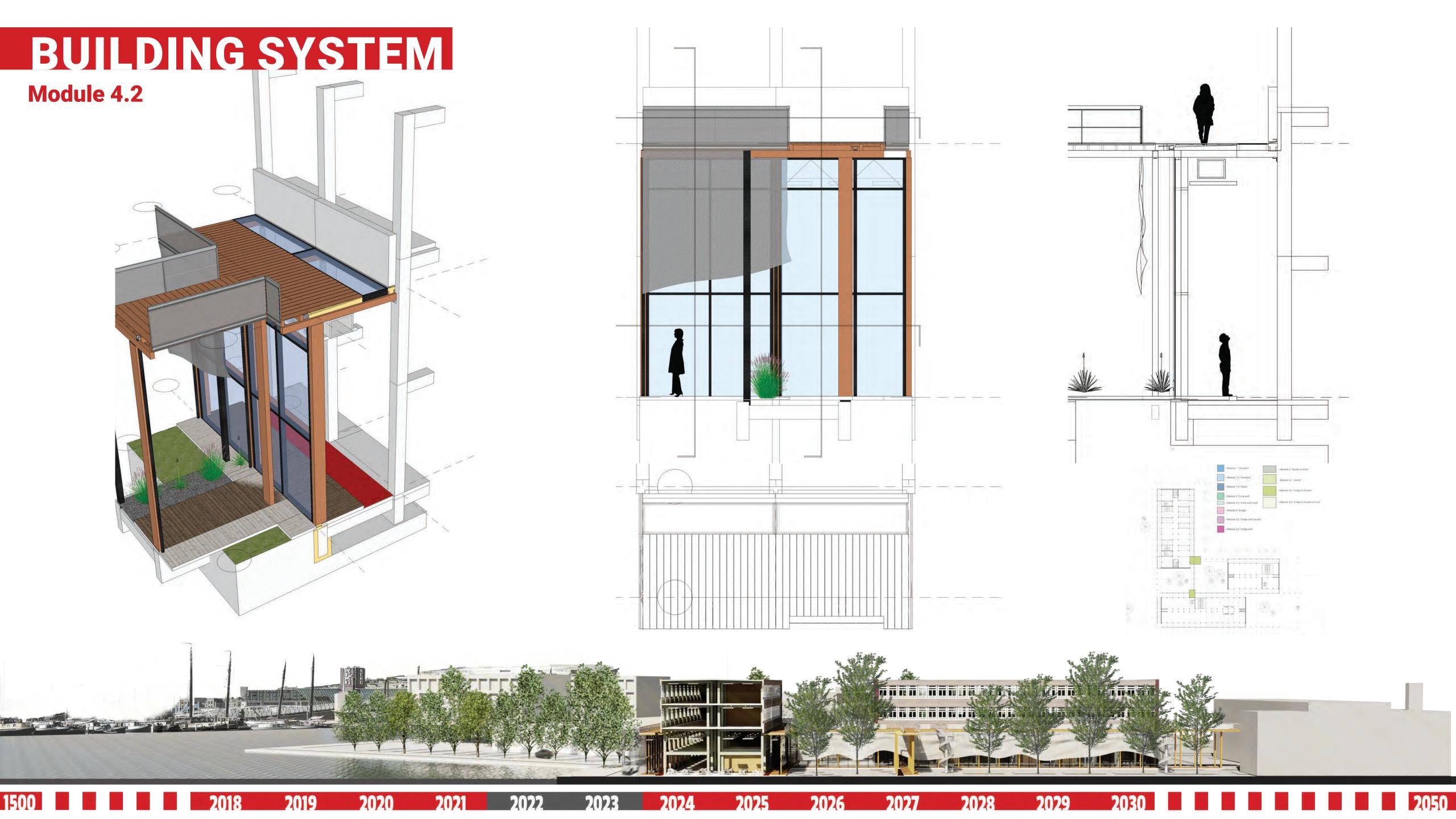




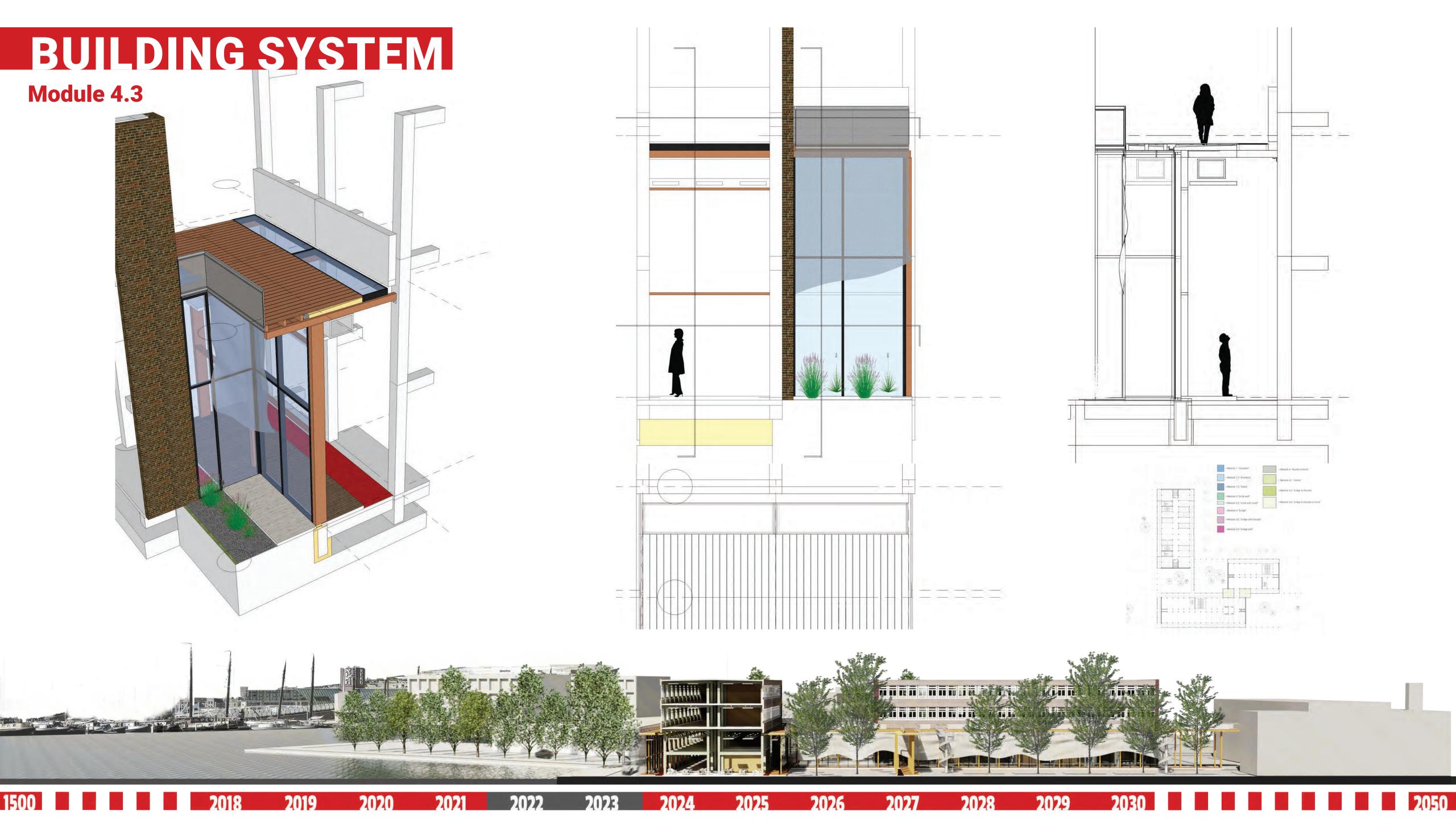












**Partners & contracts** 



**Partners & contracts** 







### **Partners & contracts**











### **Partners & contracts**















### **Partners & contracts**



















### **Partners & contracts**























### **Partners & contracts**

















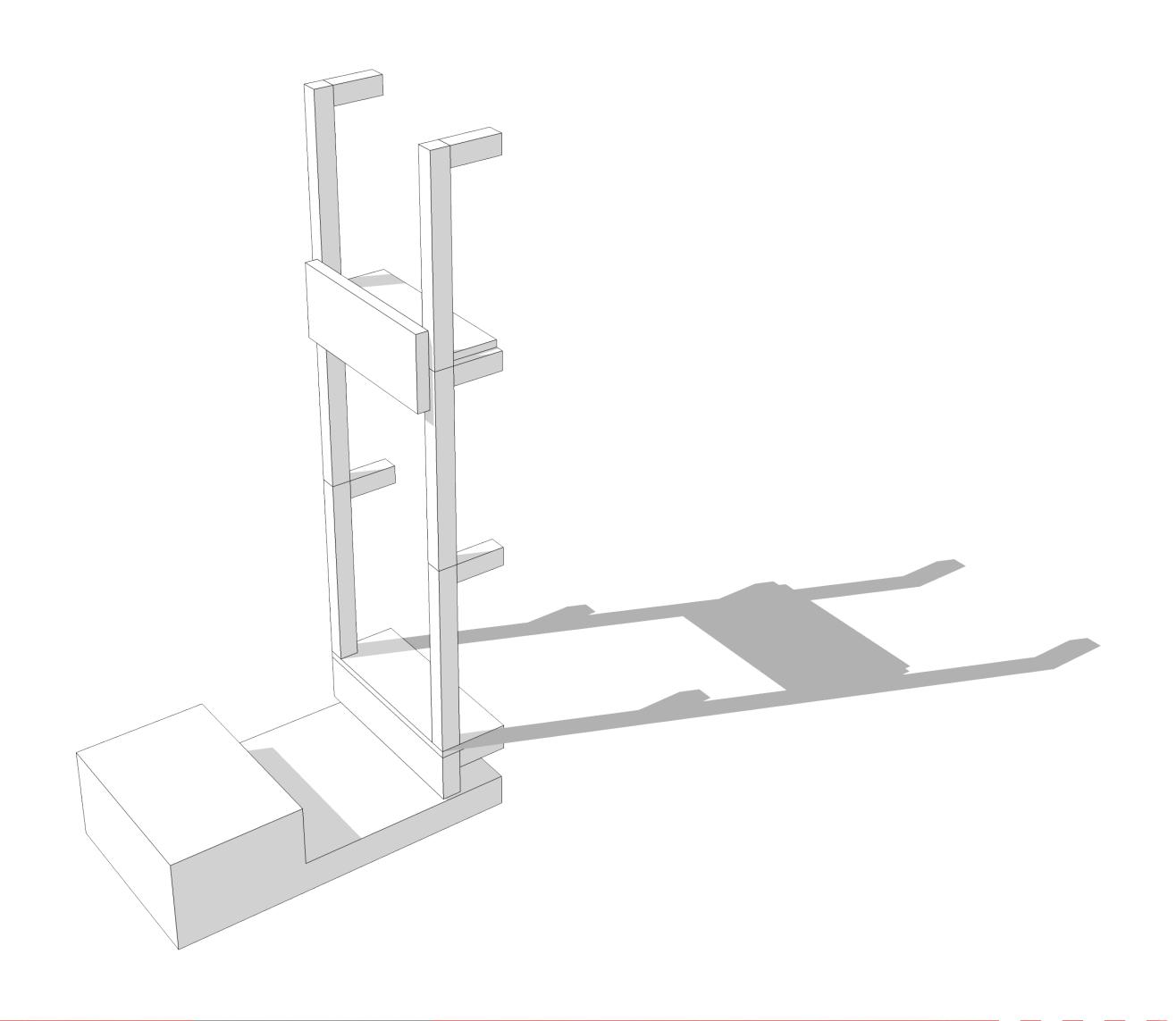


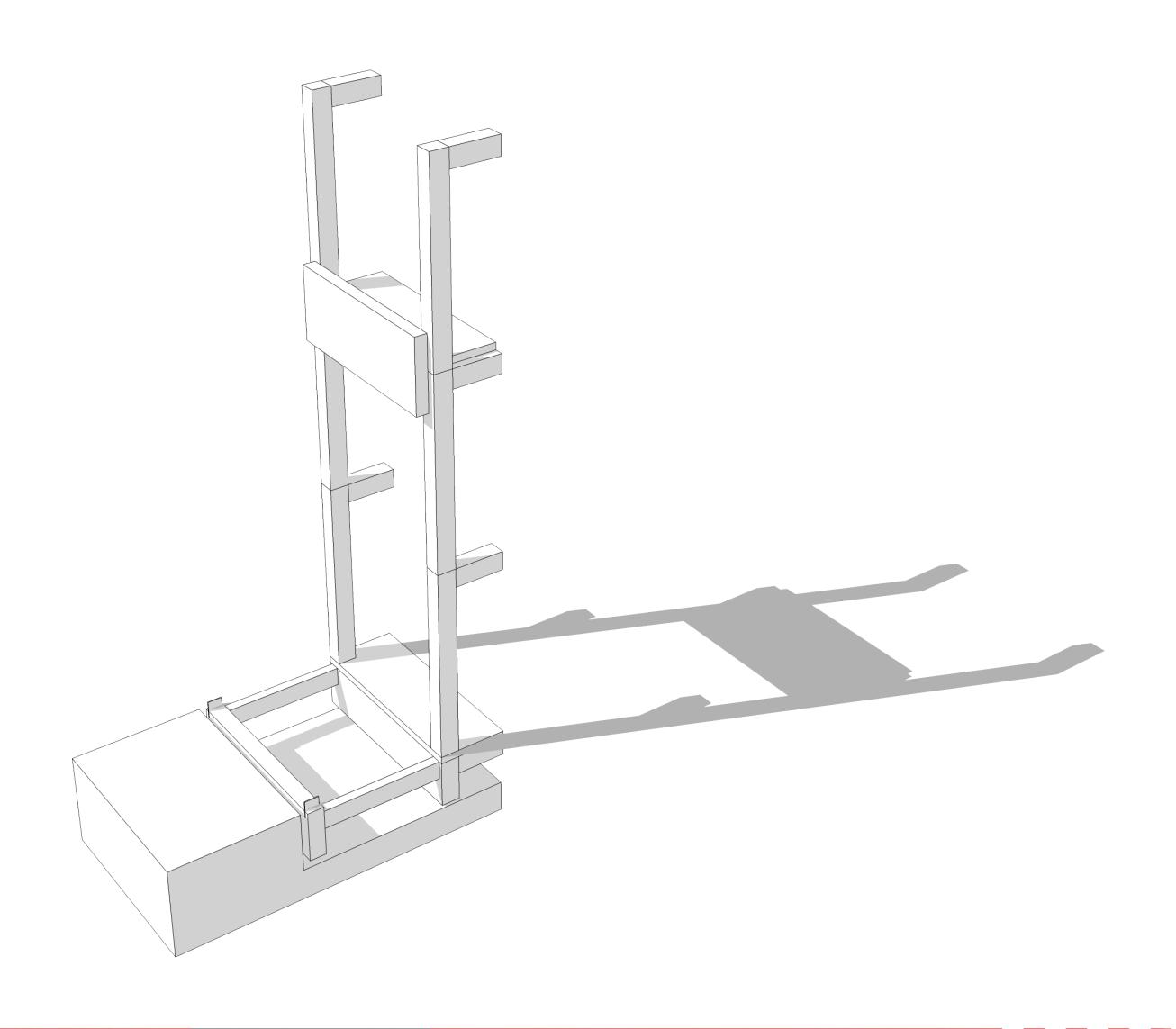


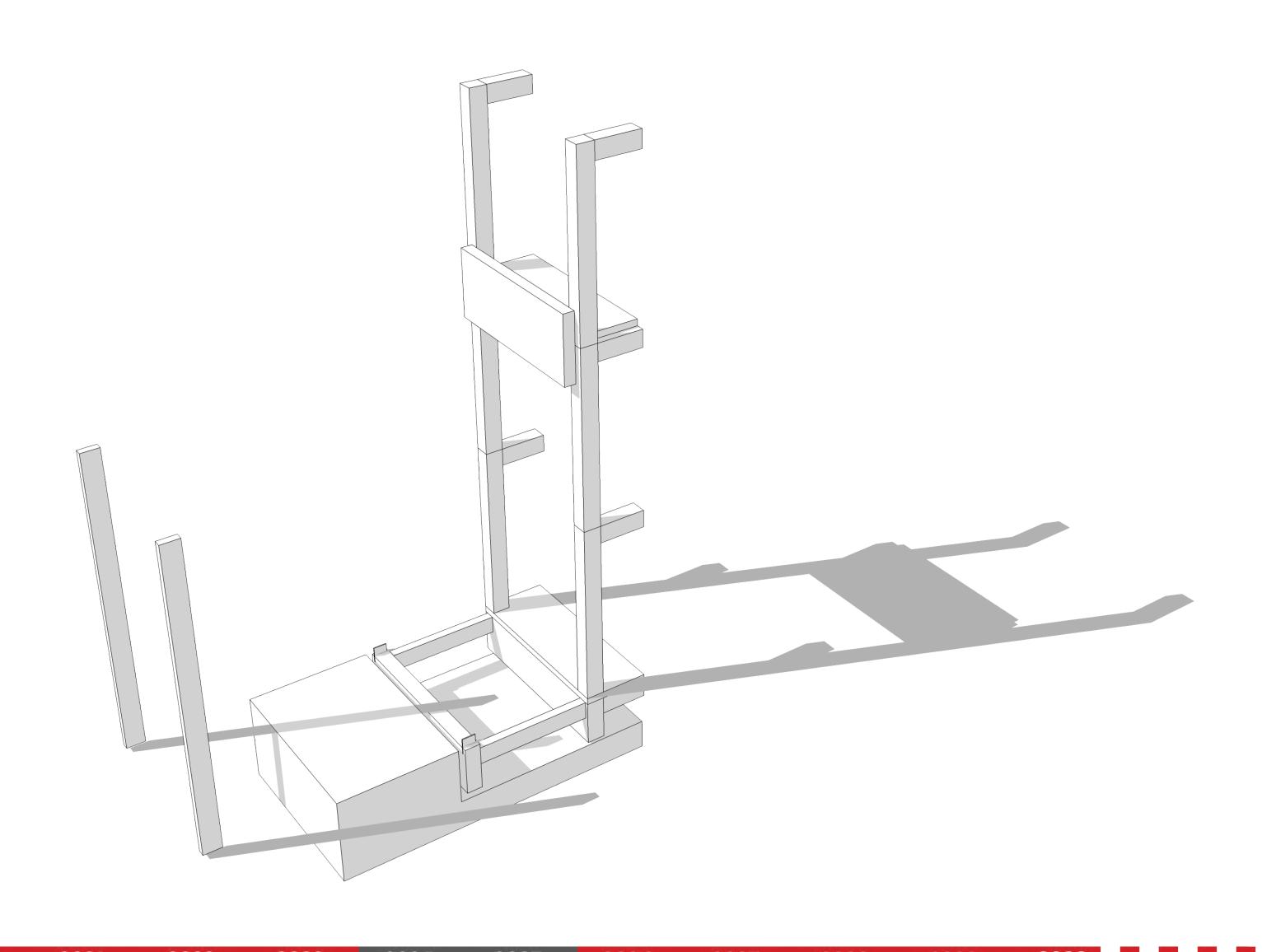


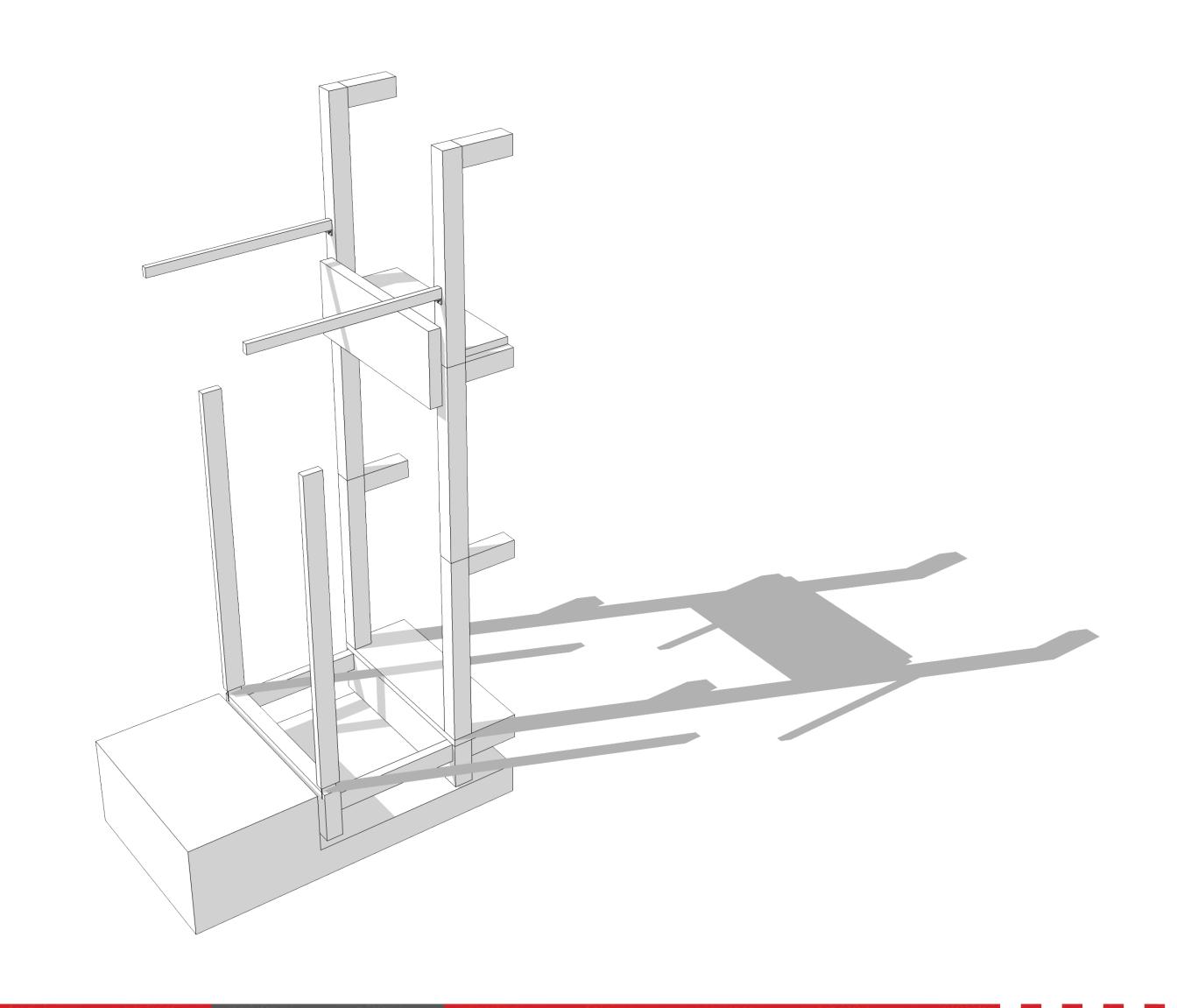


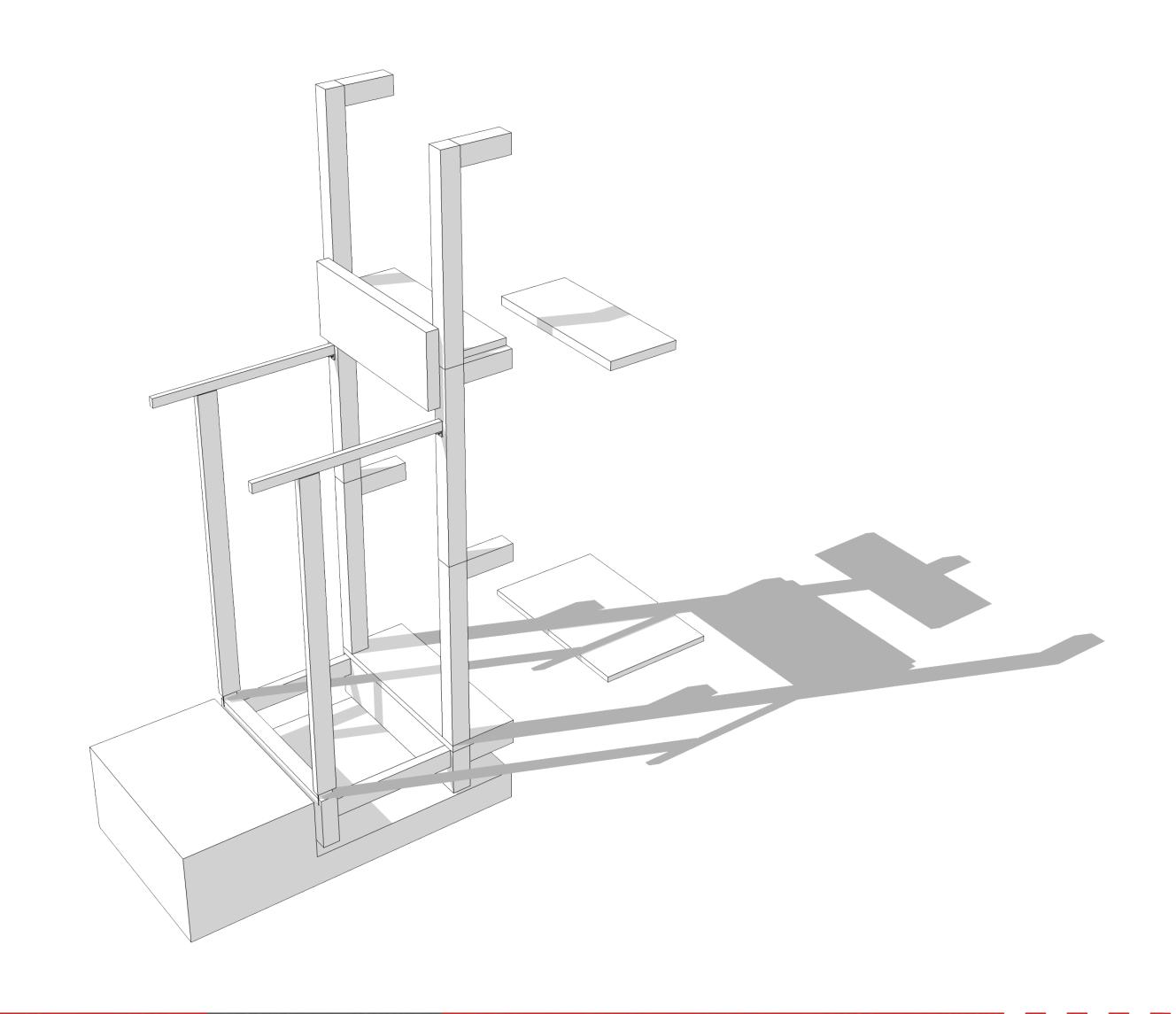


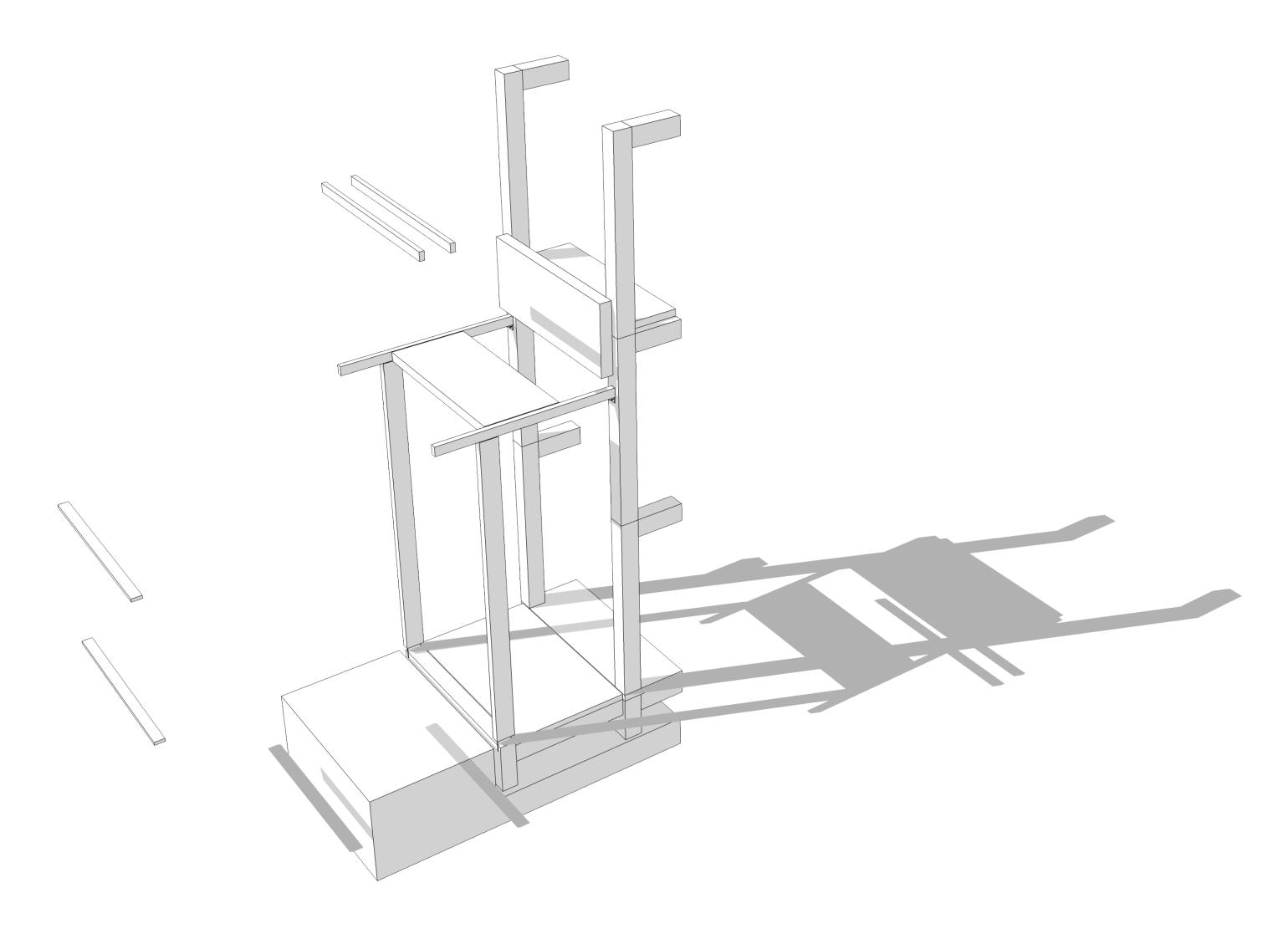


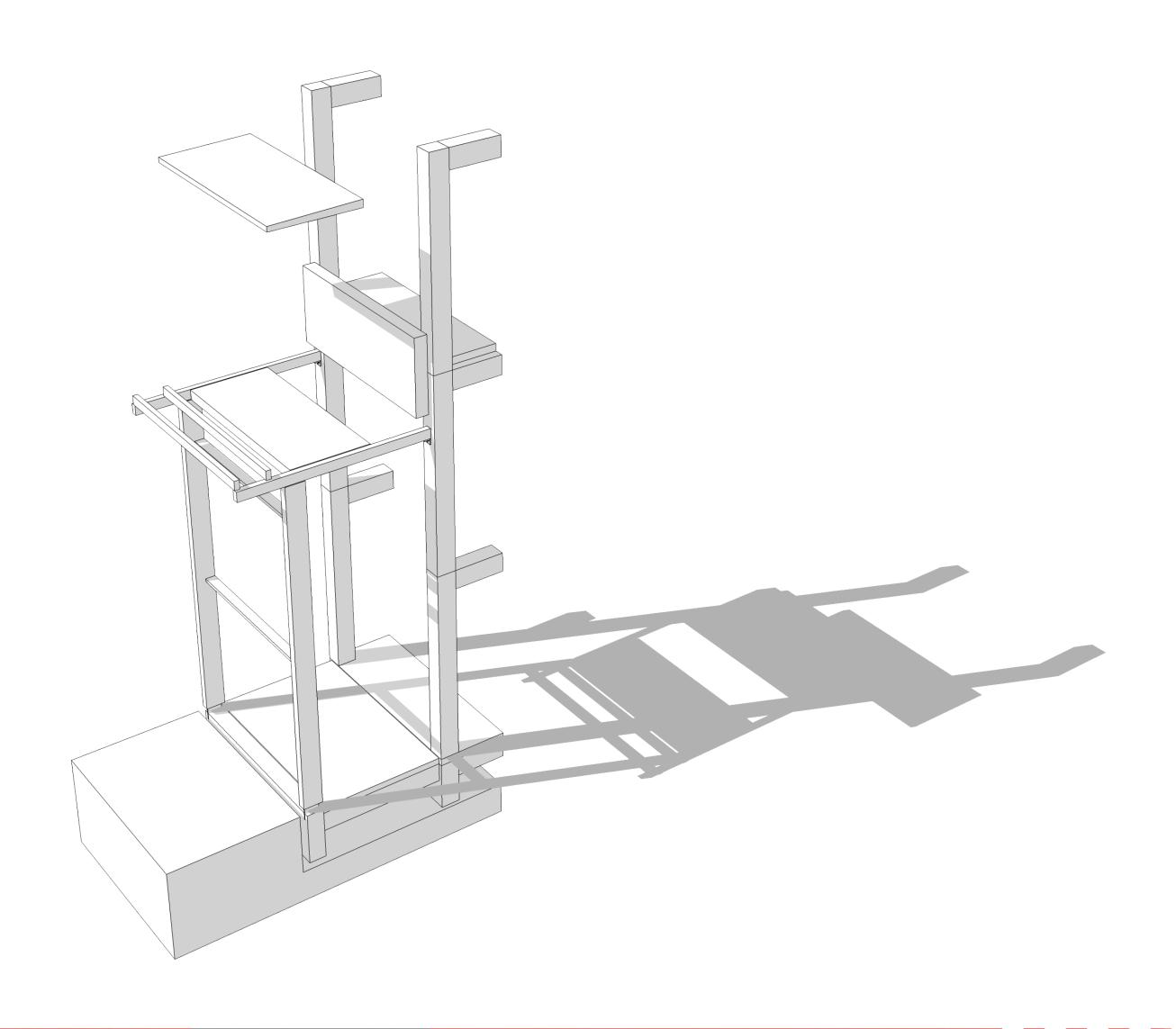


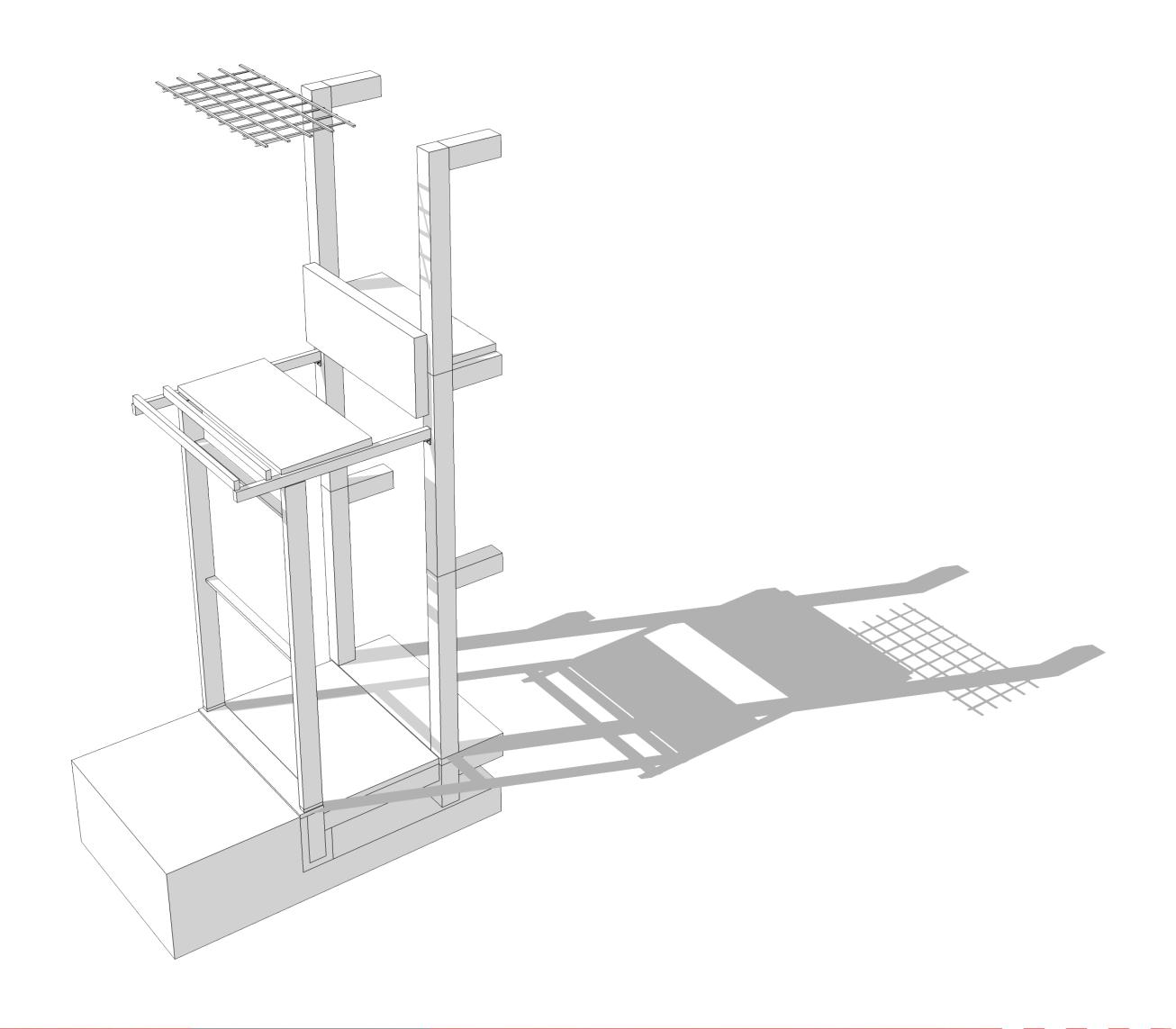


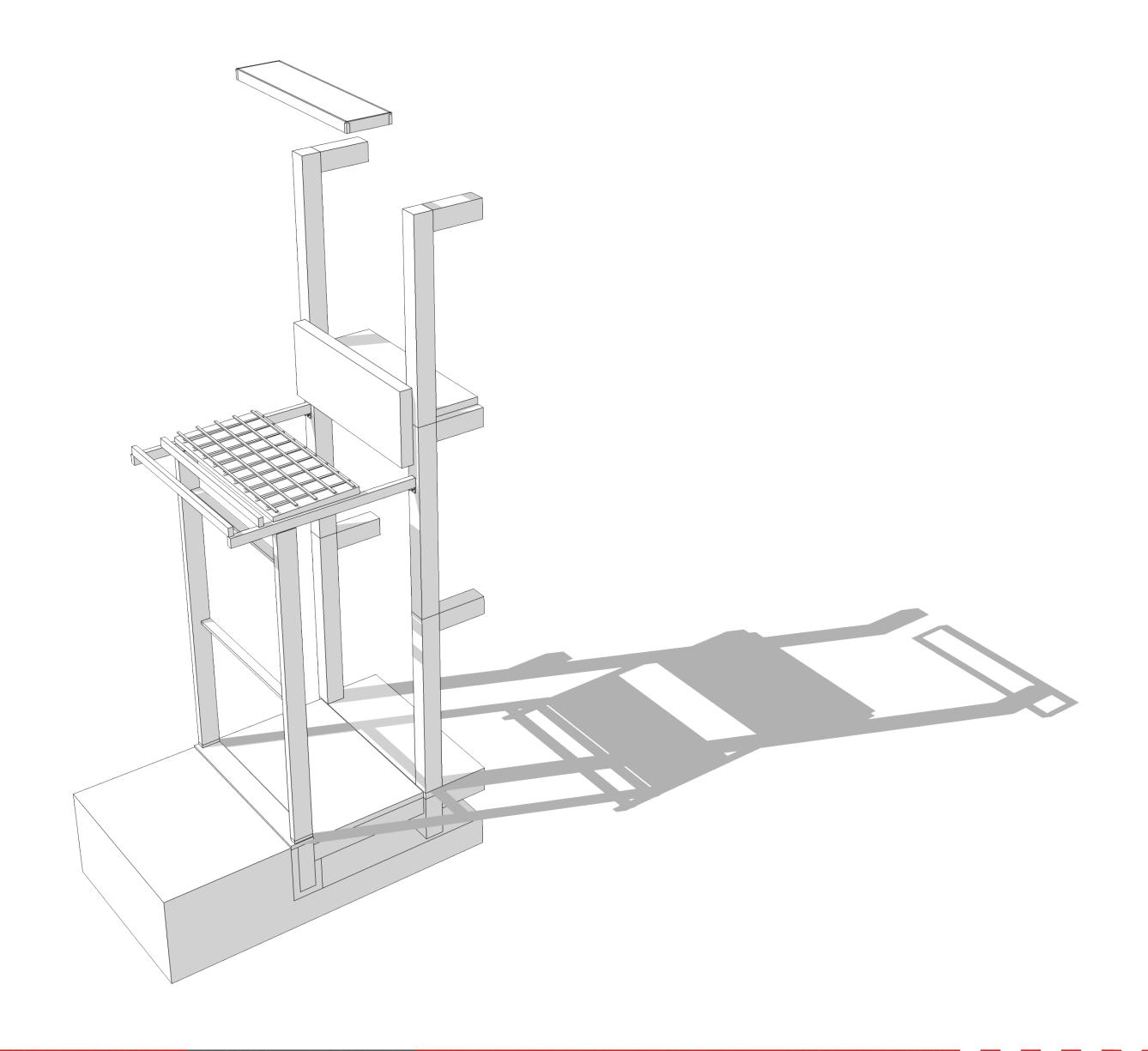


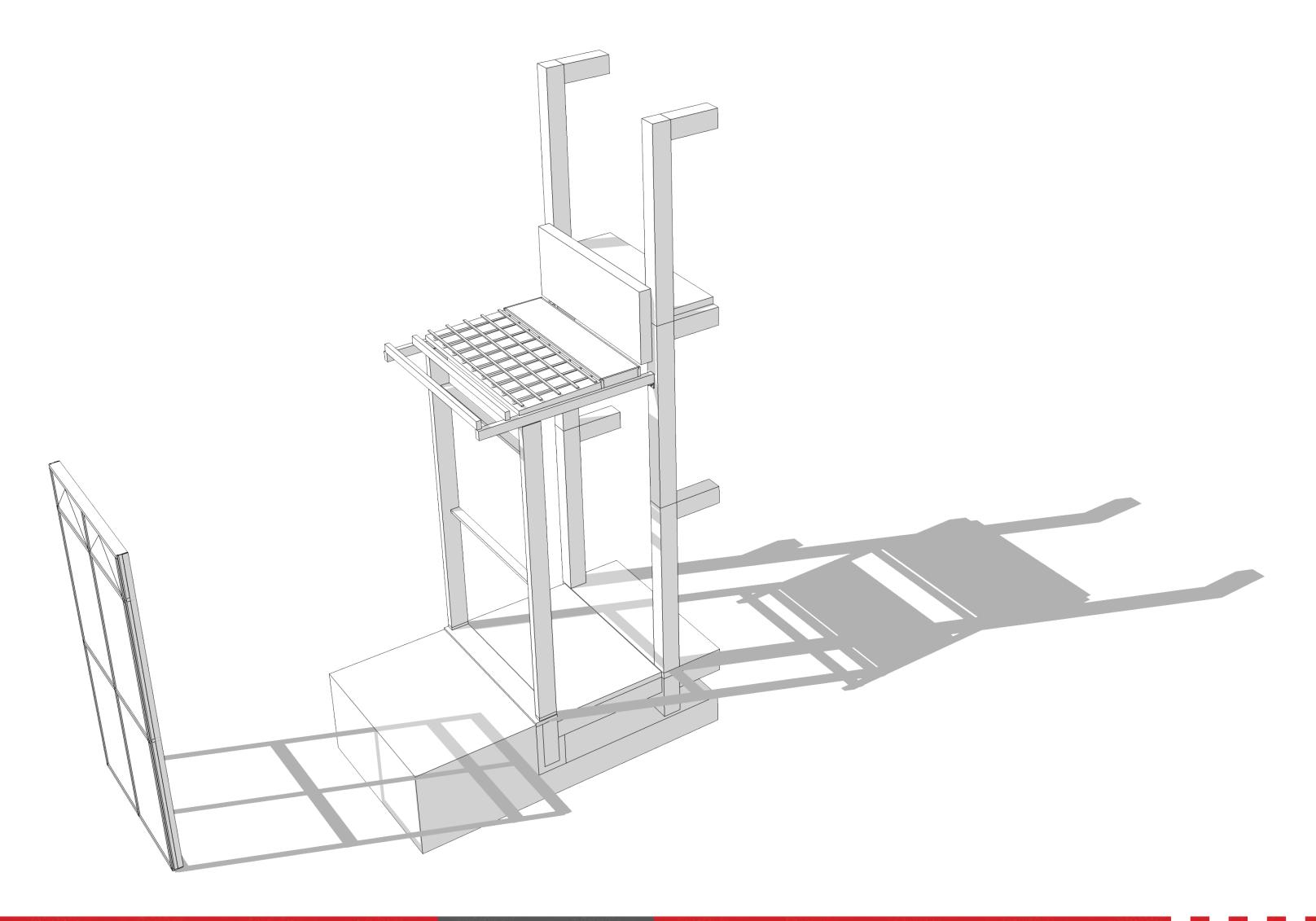


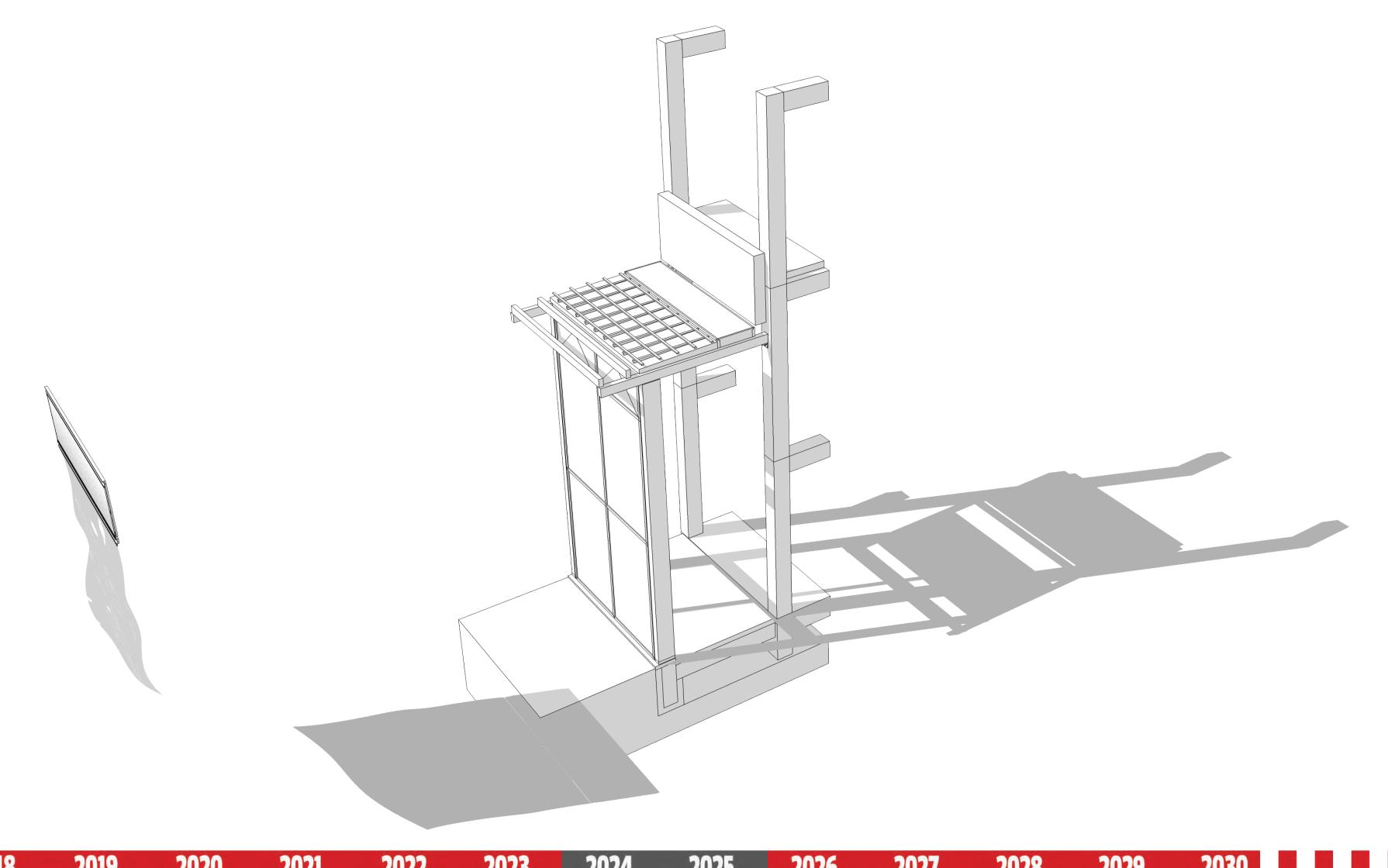


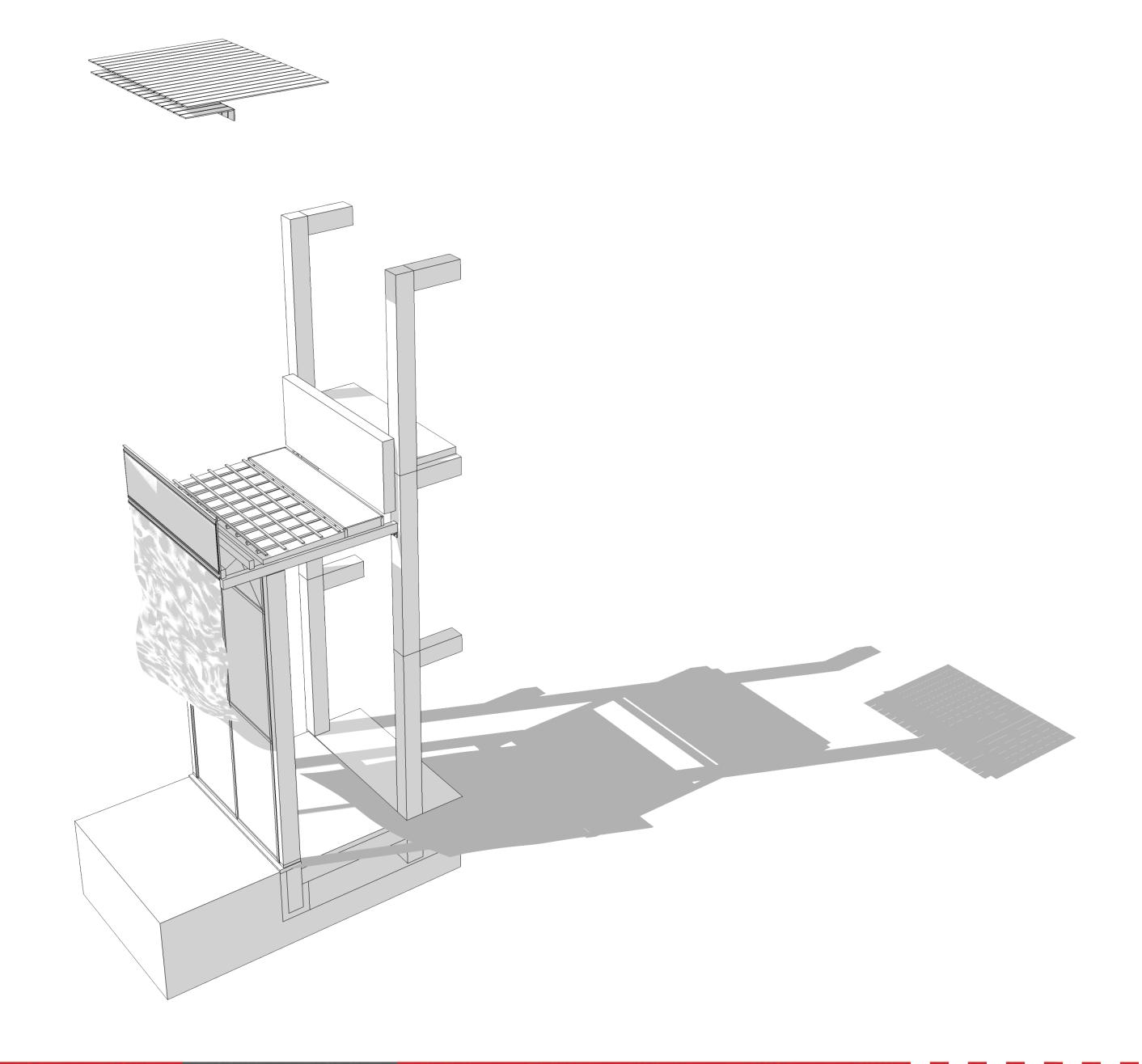


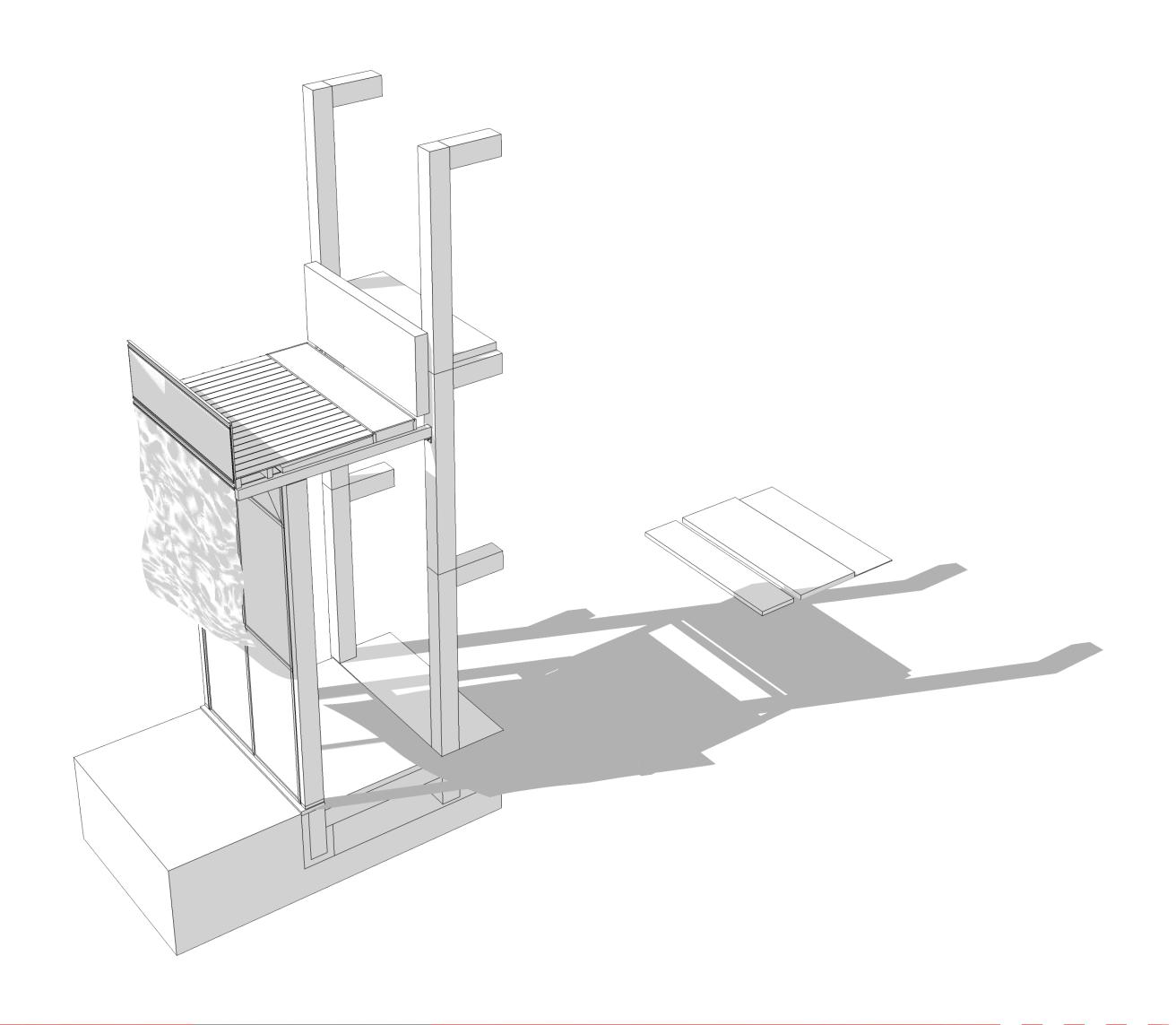


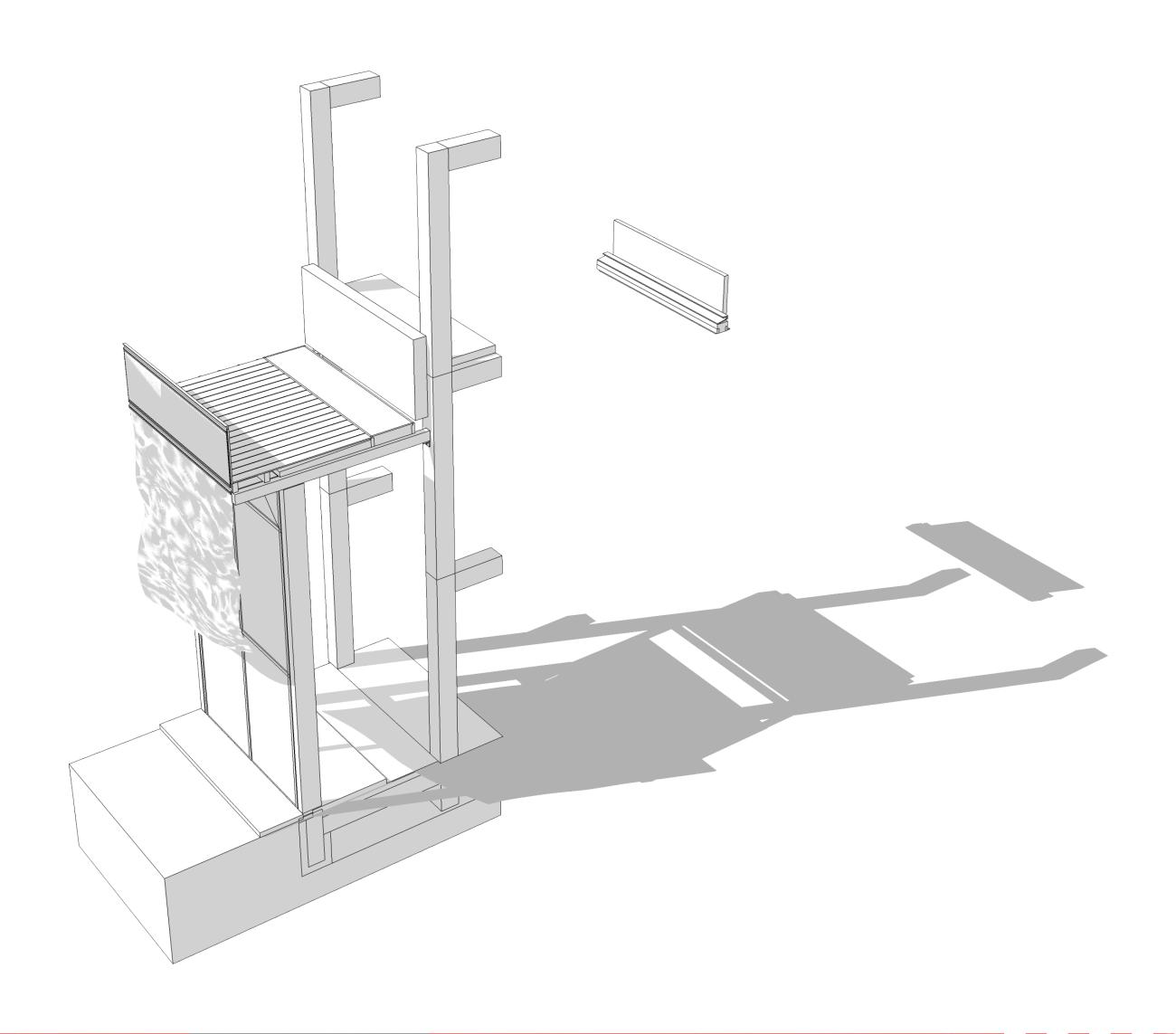


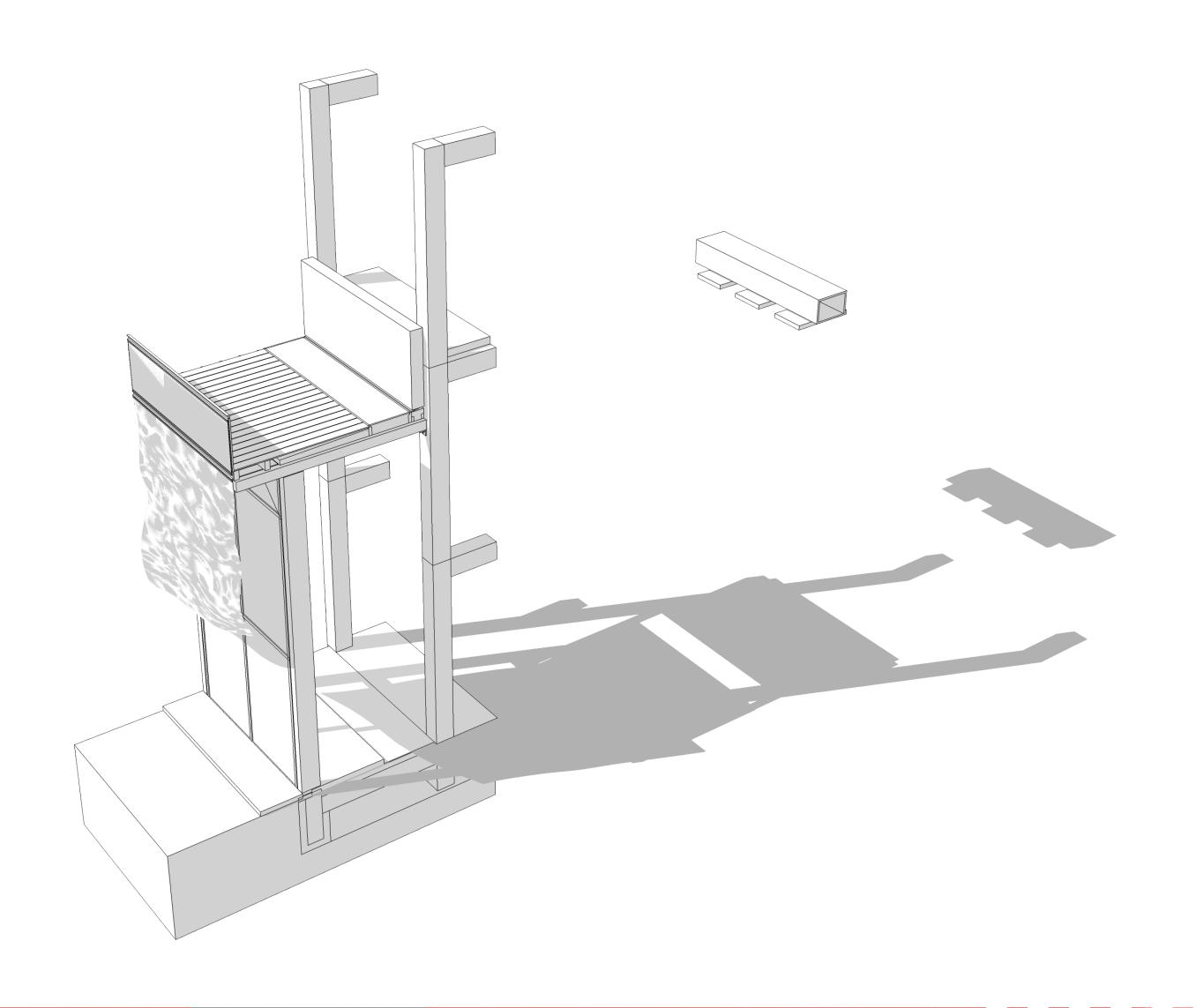


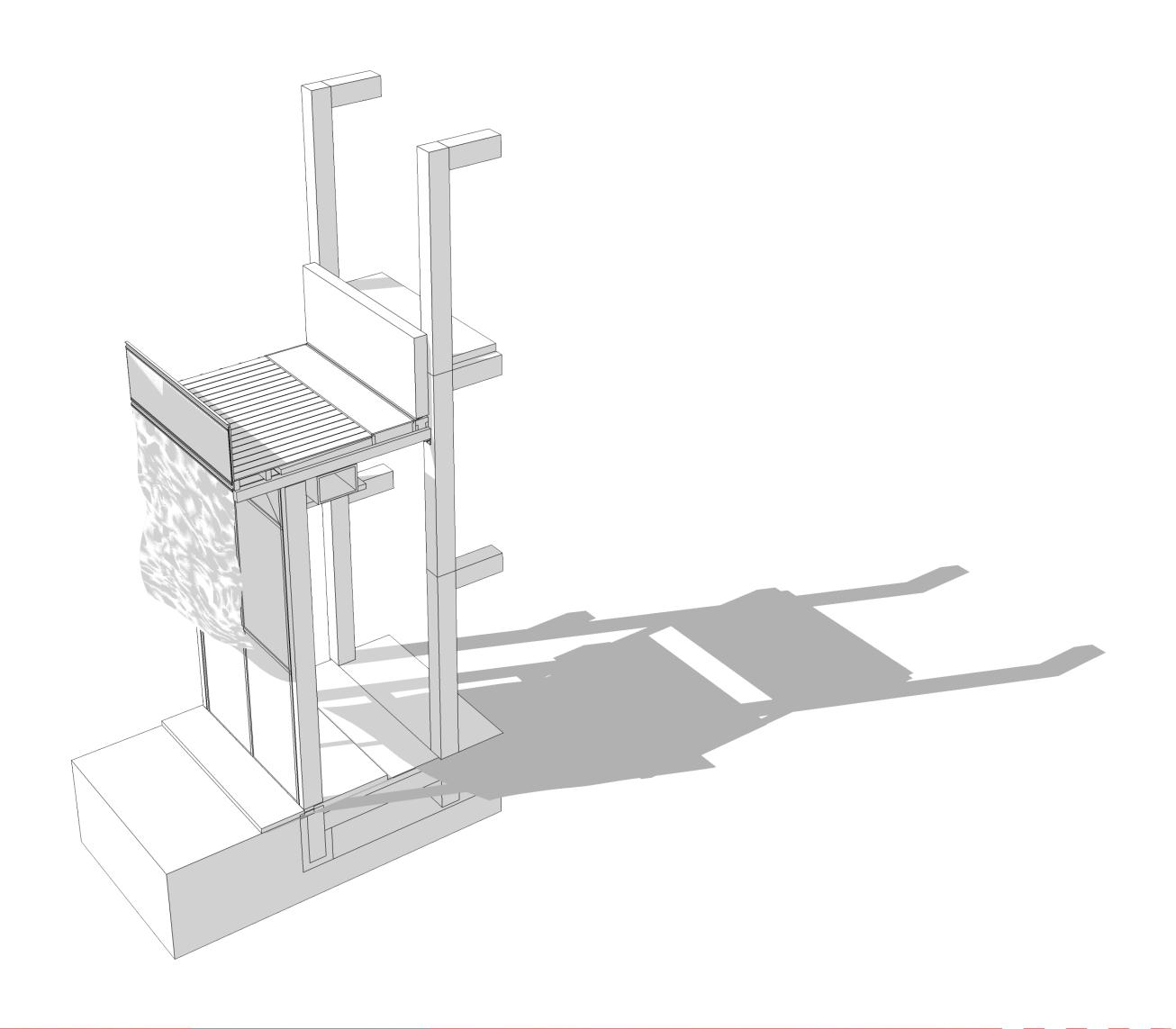


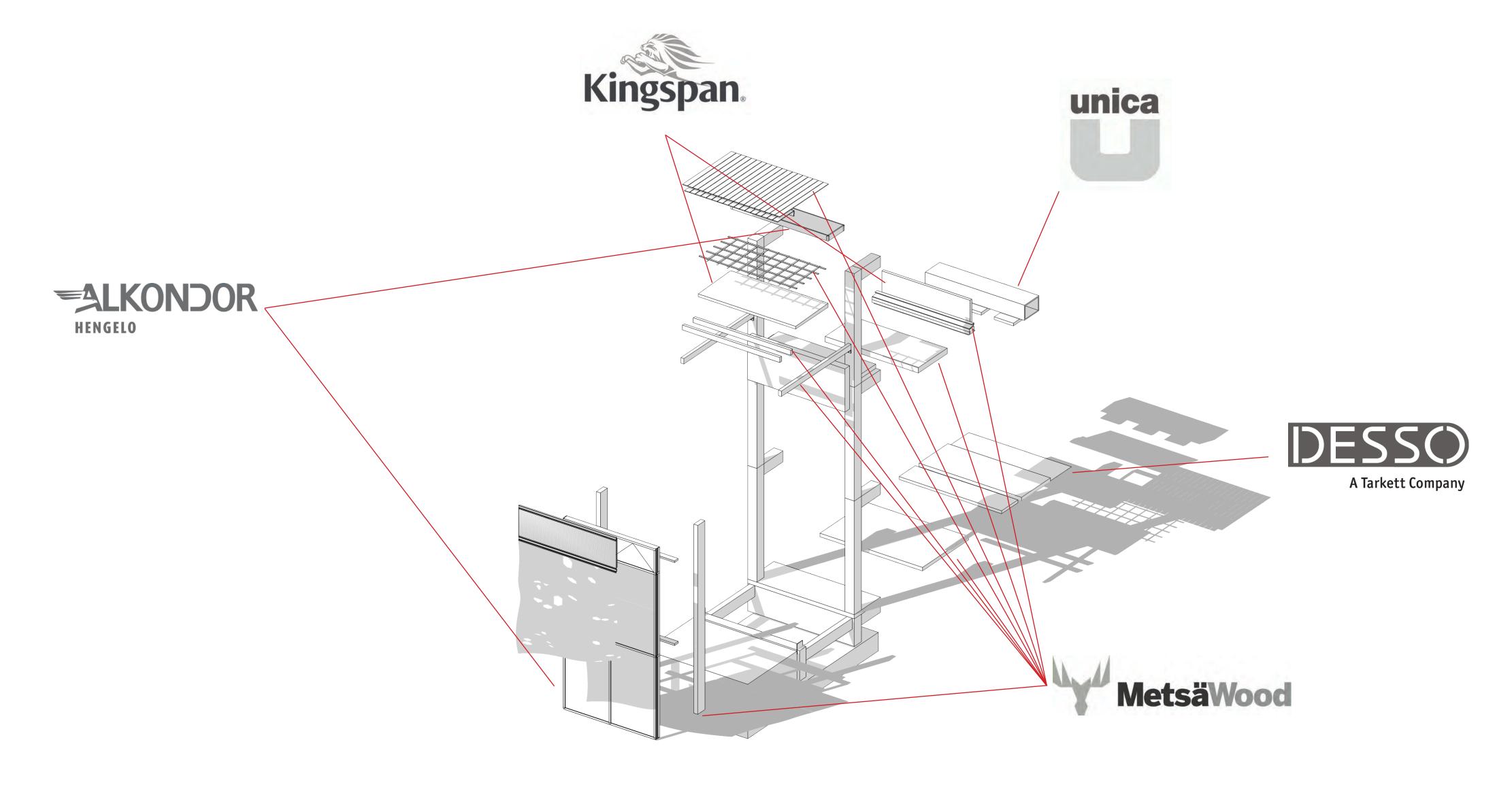




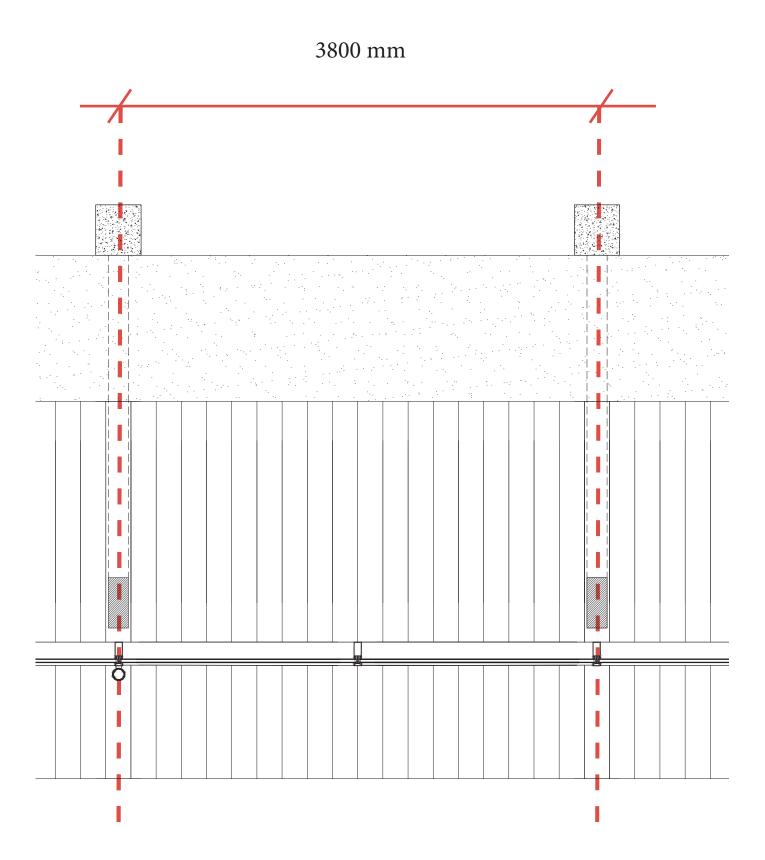






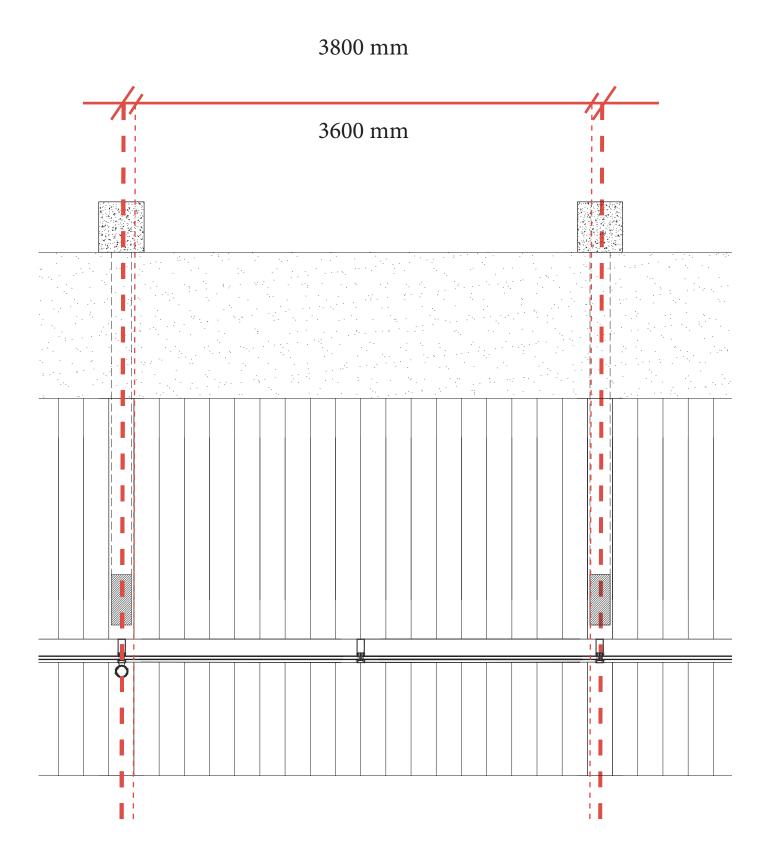


#### **Standard sizes**



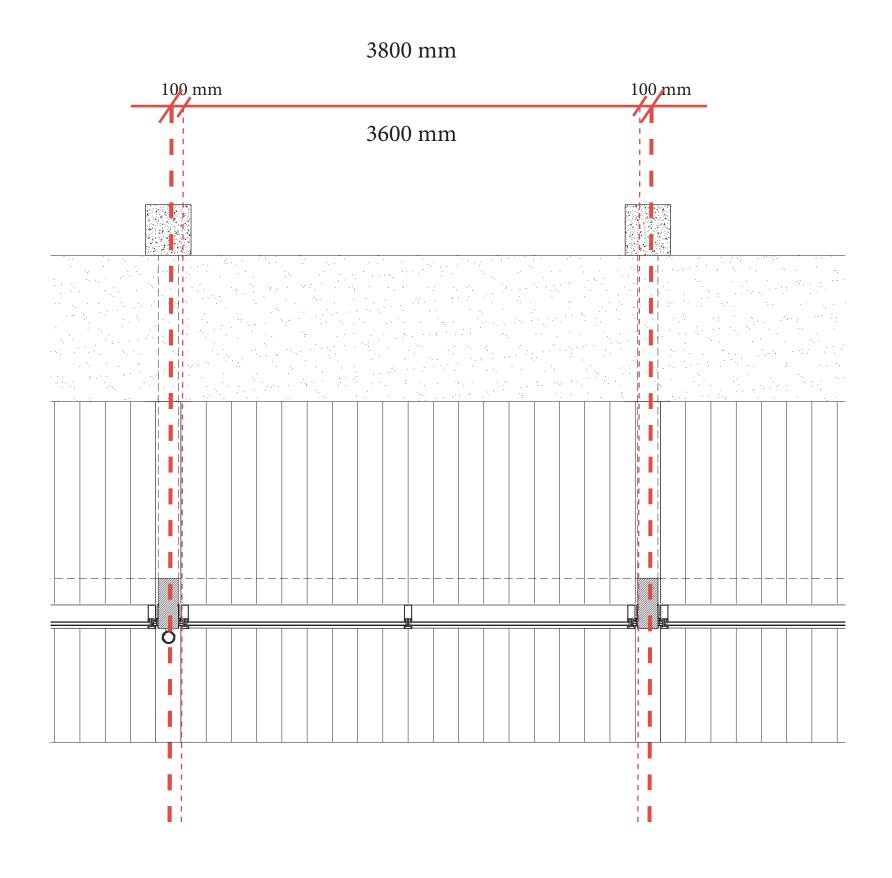


#### **Standard sizes**



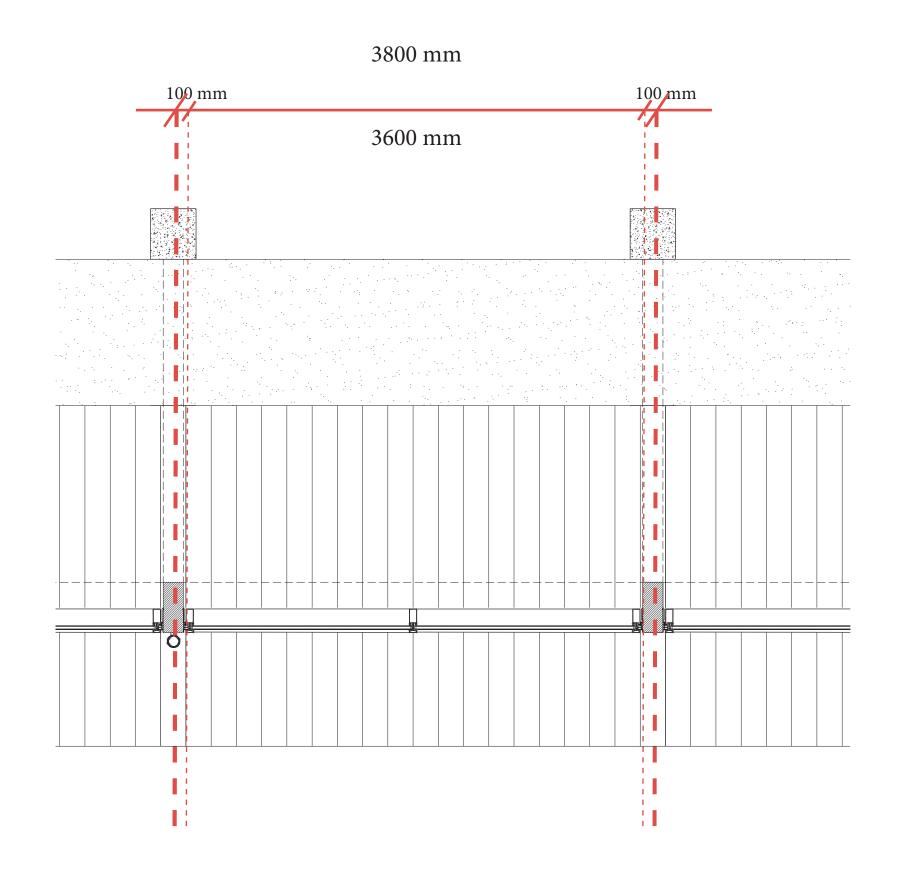


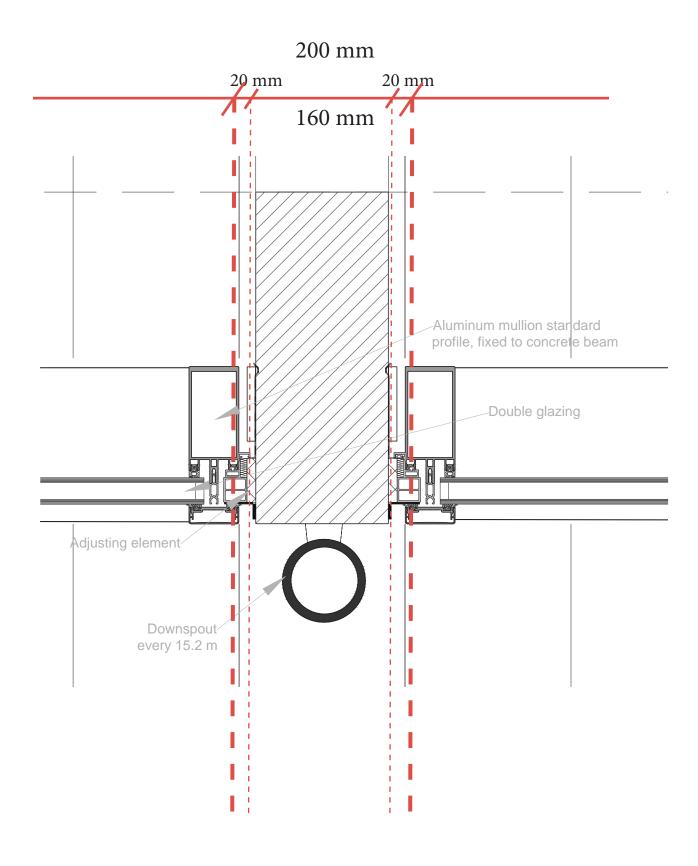
#### **Standard sizes**





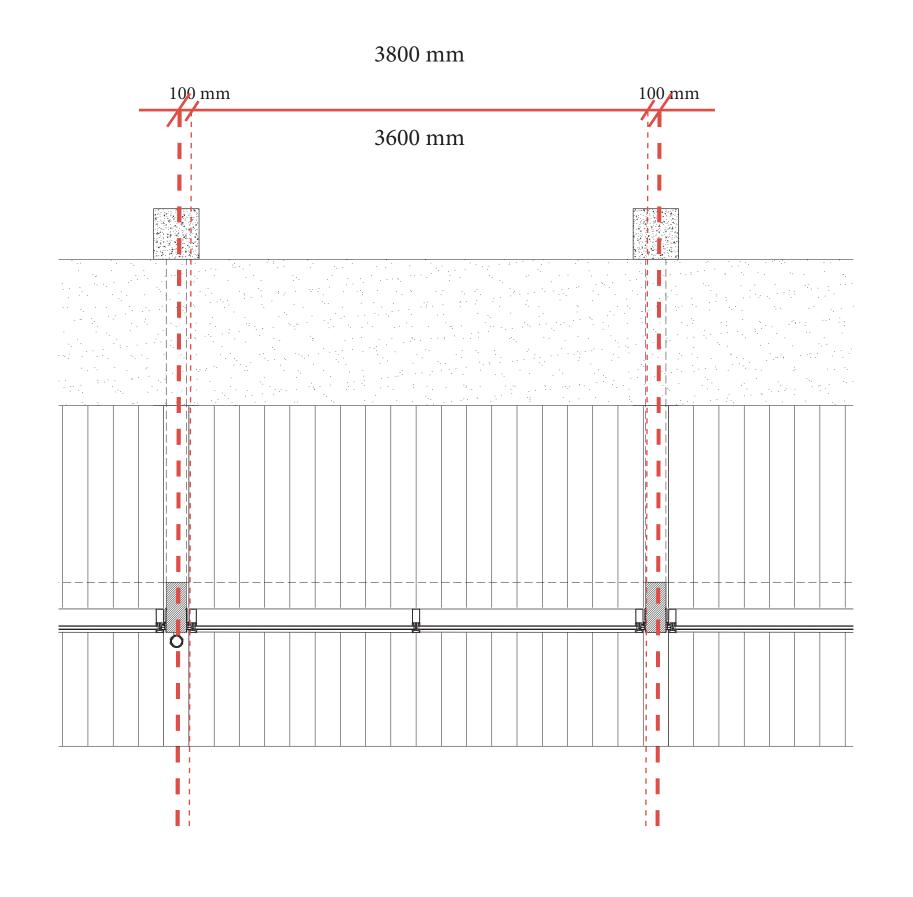
#### Standard sizes

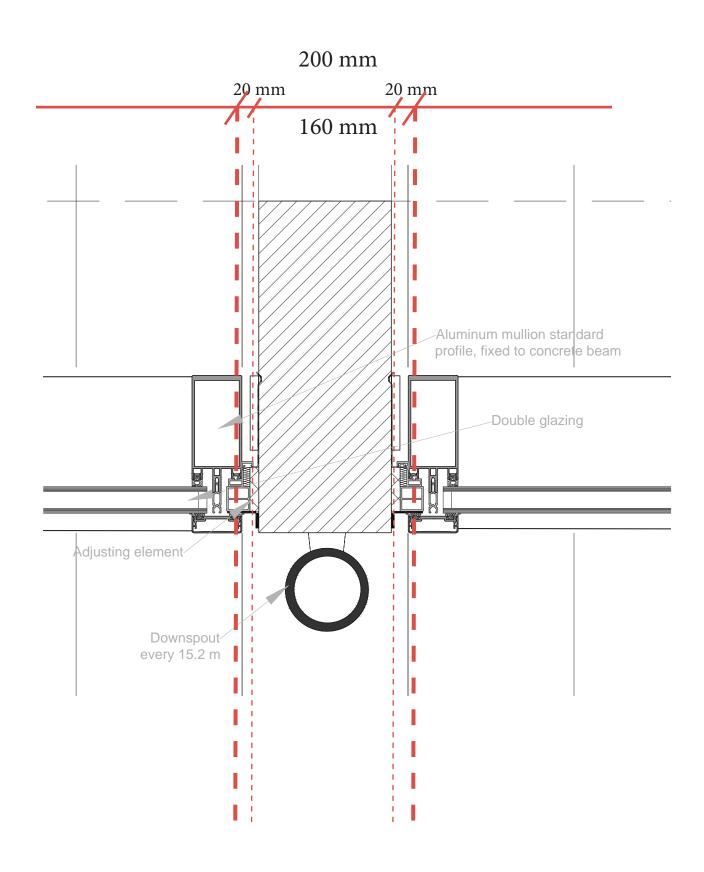


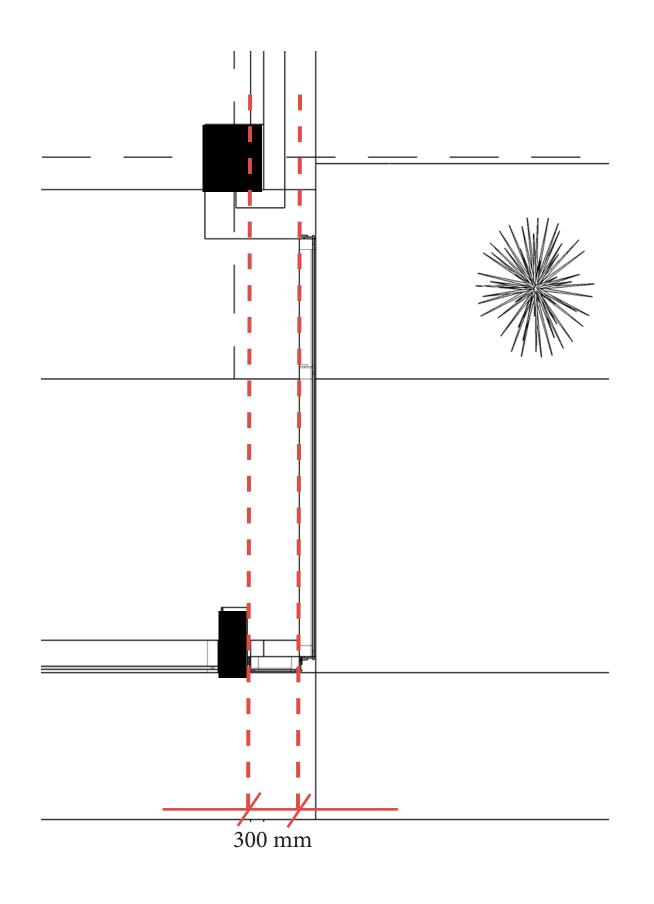




#### Standard sizes









**Celebrate the ancient** 

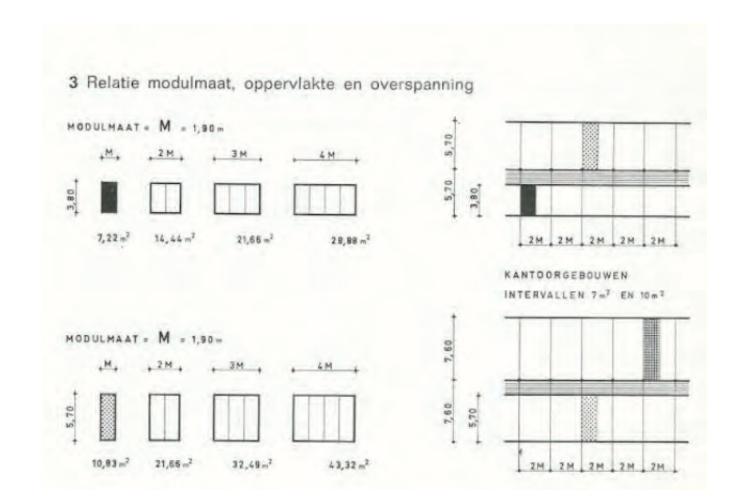




**Celebrate the ancient** 



Postwar architecture

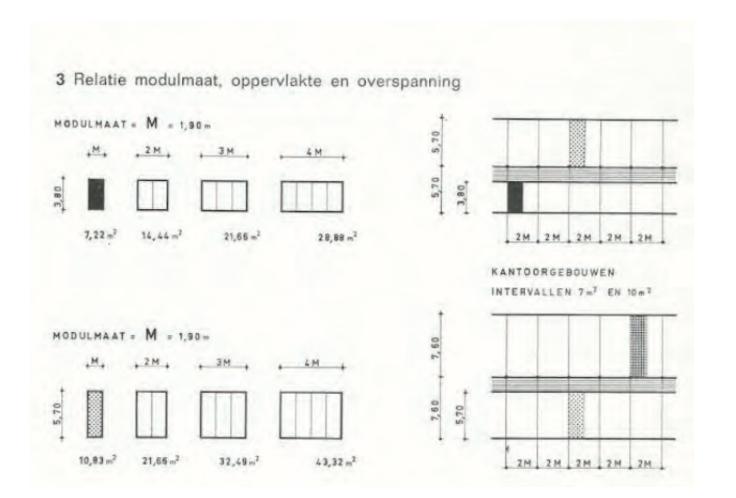




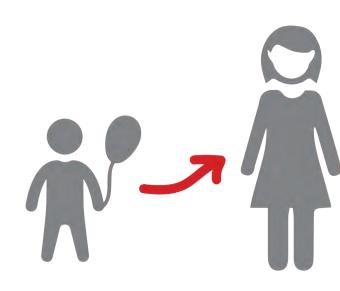
**Celebrate the ancient** 



Postwar architecture



'The new is the old'

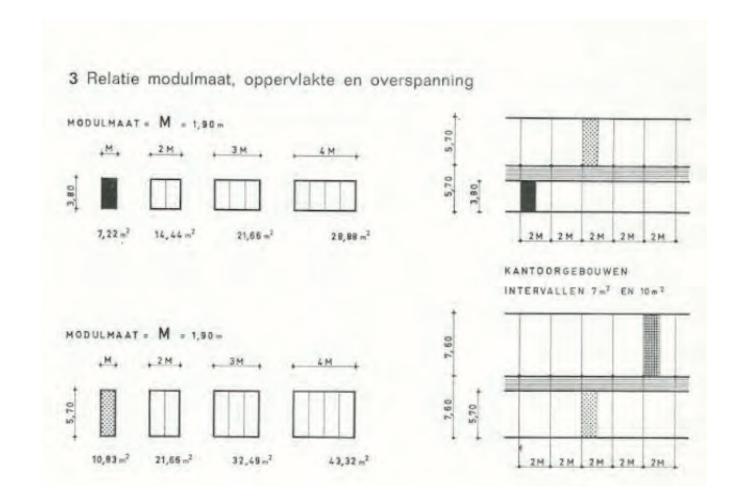




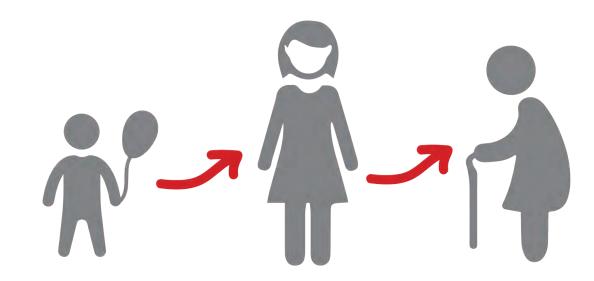
**Celebrate the ancient** 



Postwar architecture

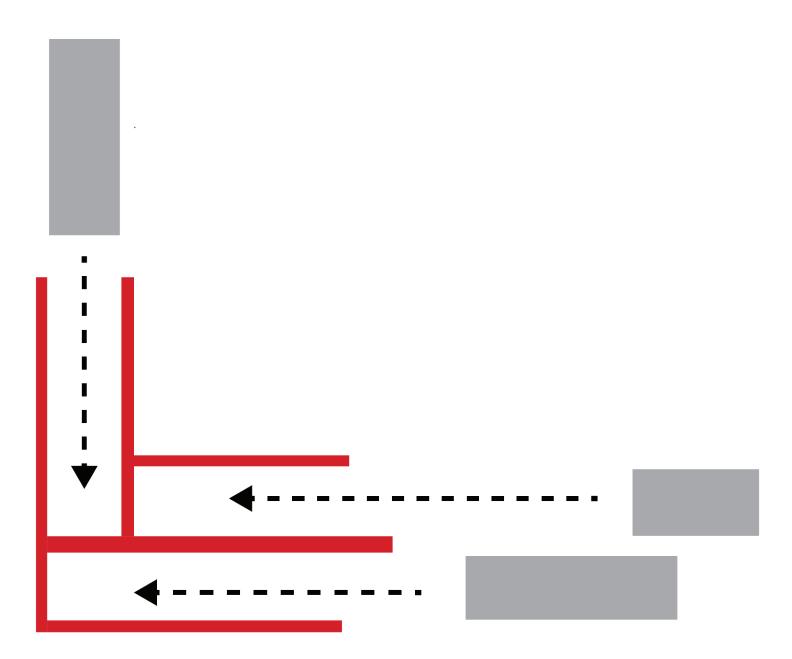


'The old becomes the ancient'



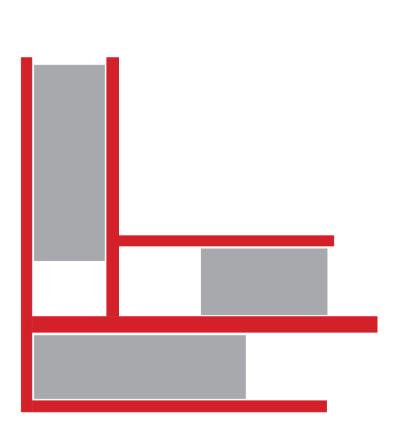


**Drydock analogy** 





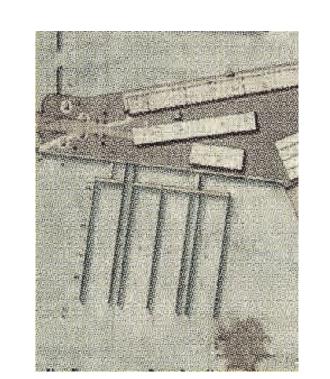
**Drydock analogy** 

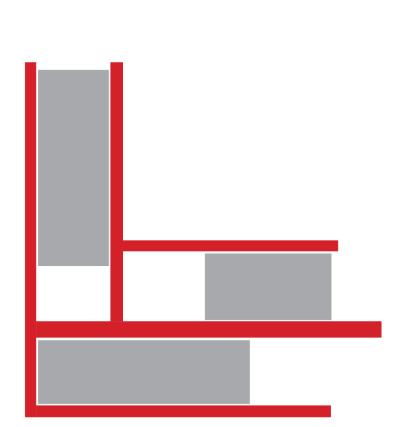




**Drydock analogy** 

History

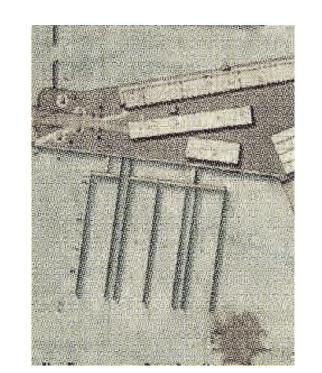


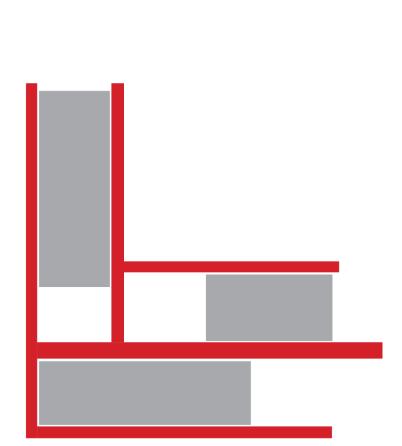




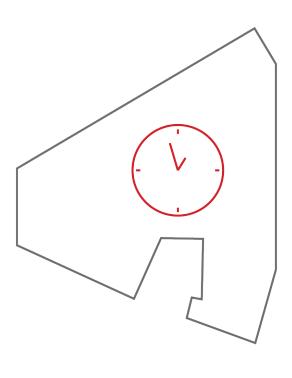
**Drydock analogy** 

History



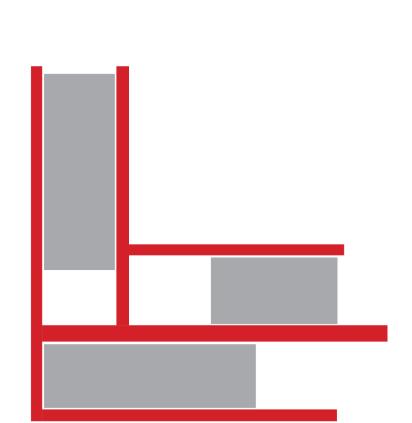


Temporary

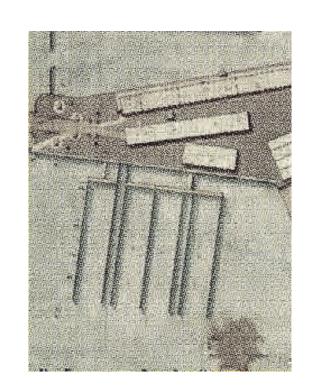




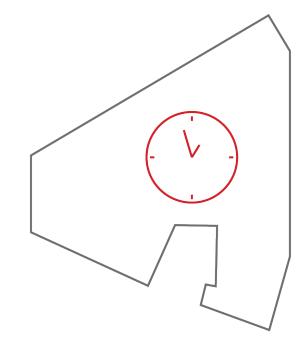
**Drydock analogy** 



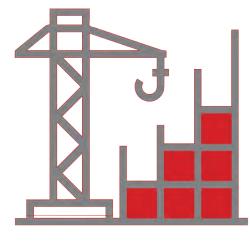
History



Temporary



Building (on the circular economy!)





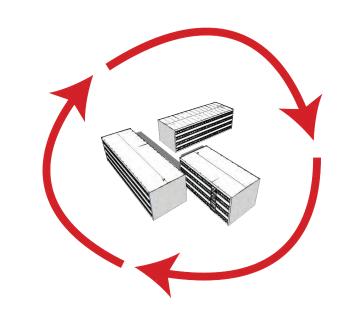
**Ripple effect** 





Ripple effect

Circular

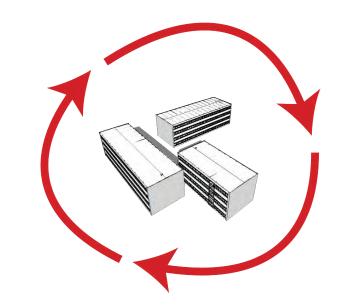






**Ripple effect** 

Circular



Low threshold

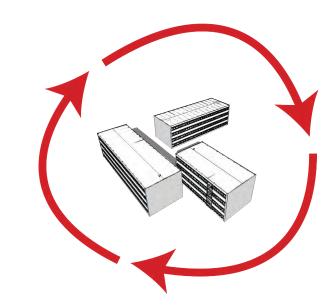






**Ripple effect** 







Low threshold

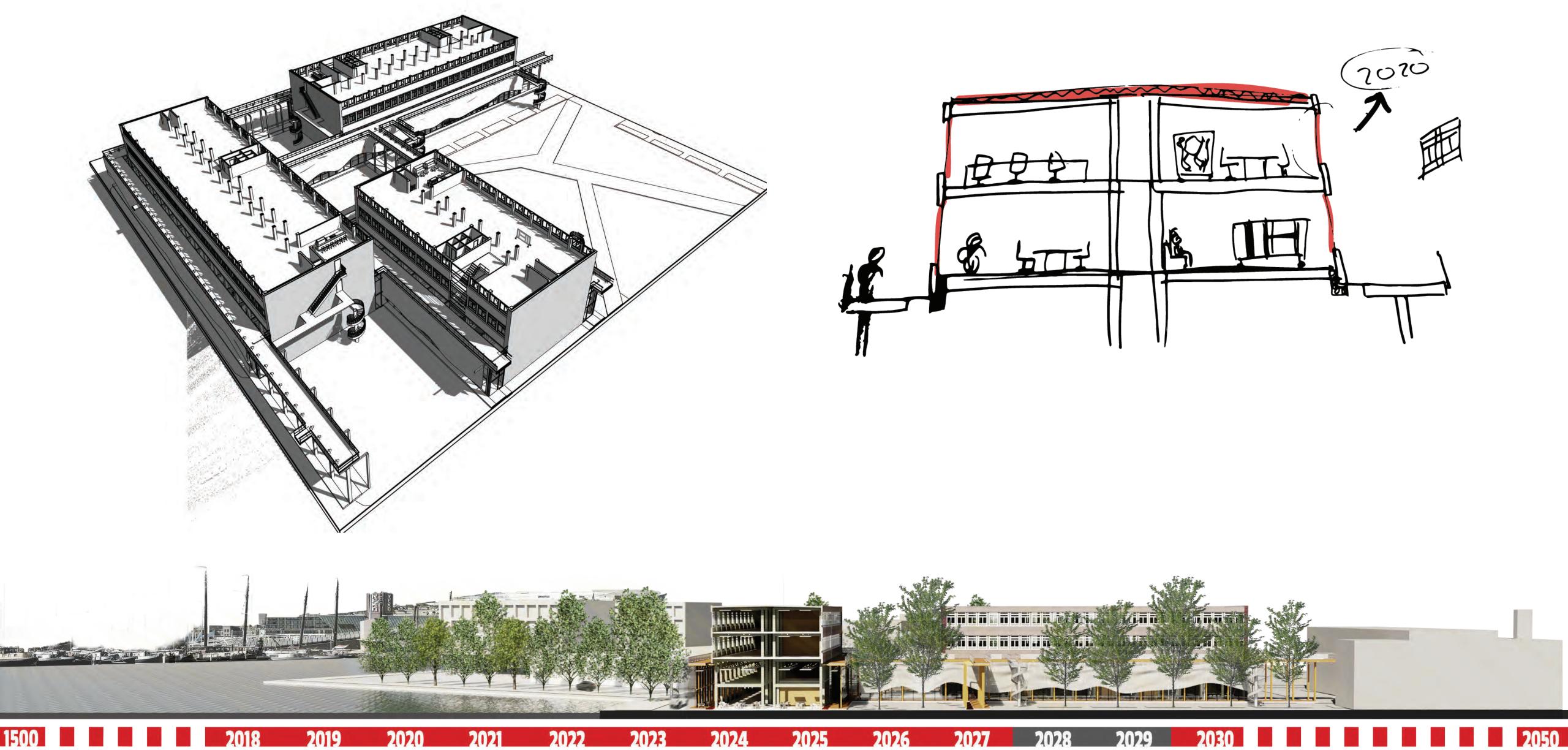


Military efficiency





**Growth of the intervention** 

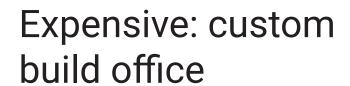


#### **Start-up policy - roomdeviders options**

Start-ups are given two options:

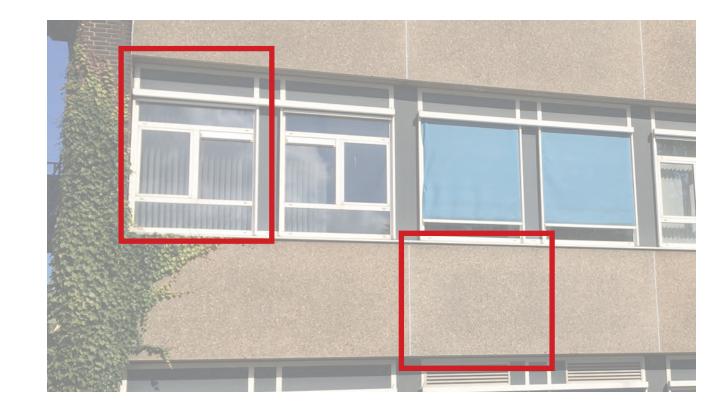


Cheap: create own lay-out with reused facade elements





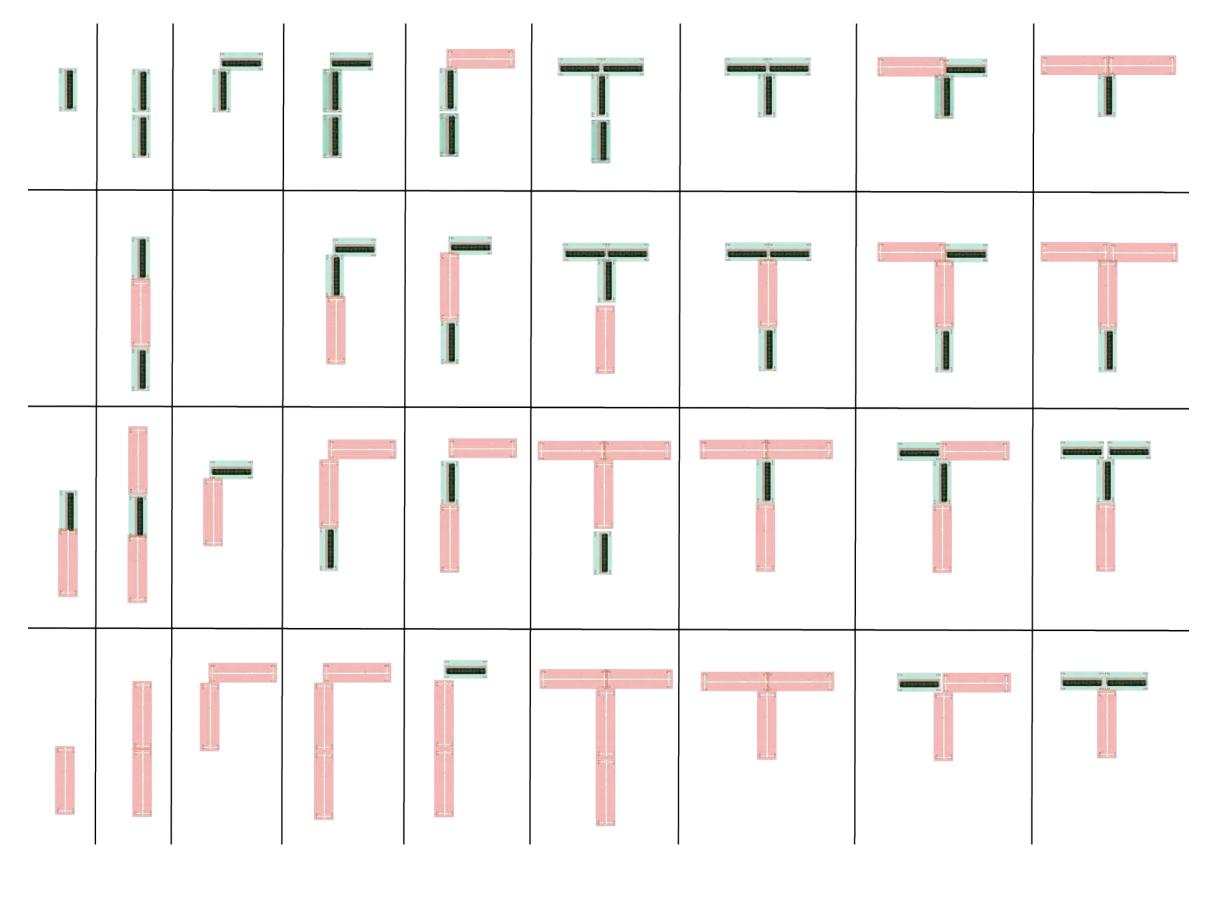
See: interior partitions

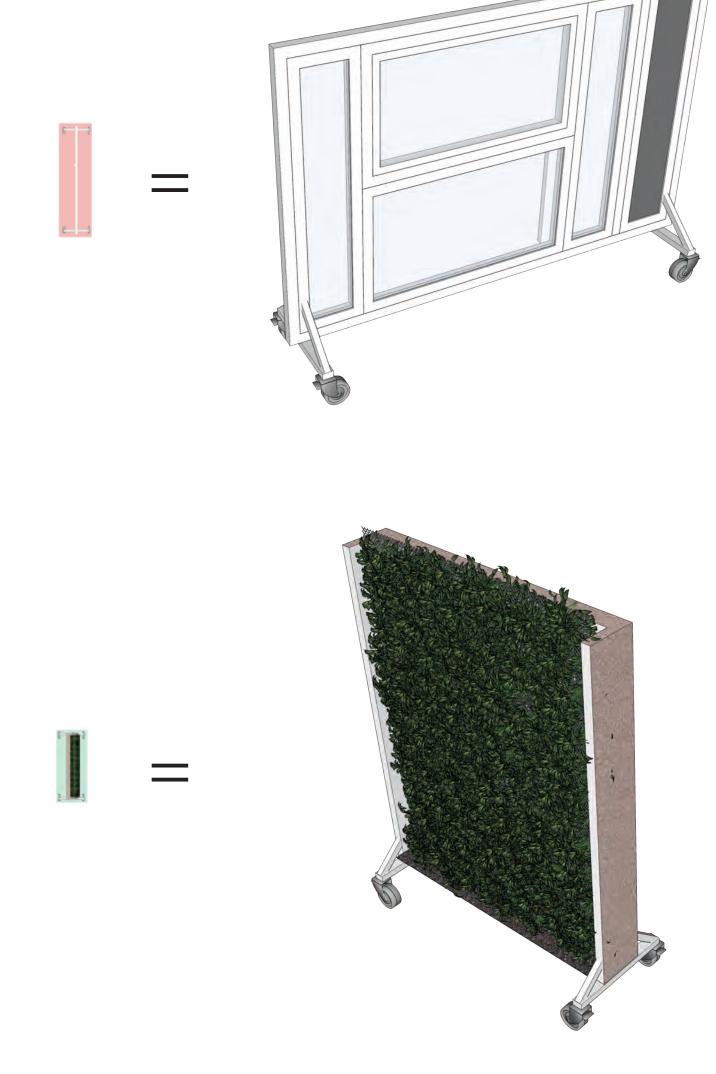






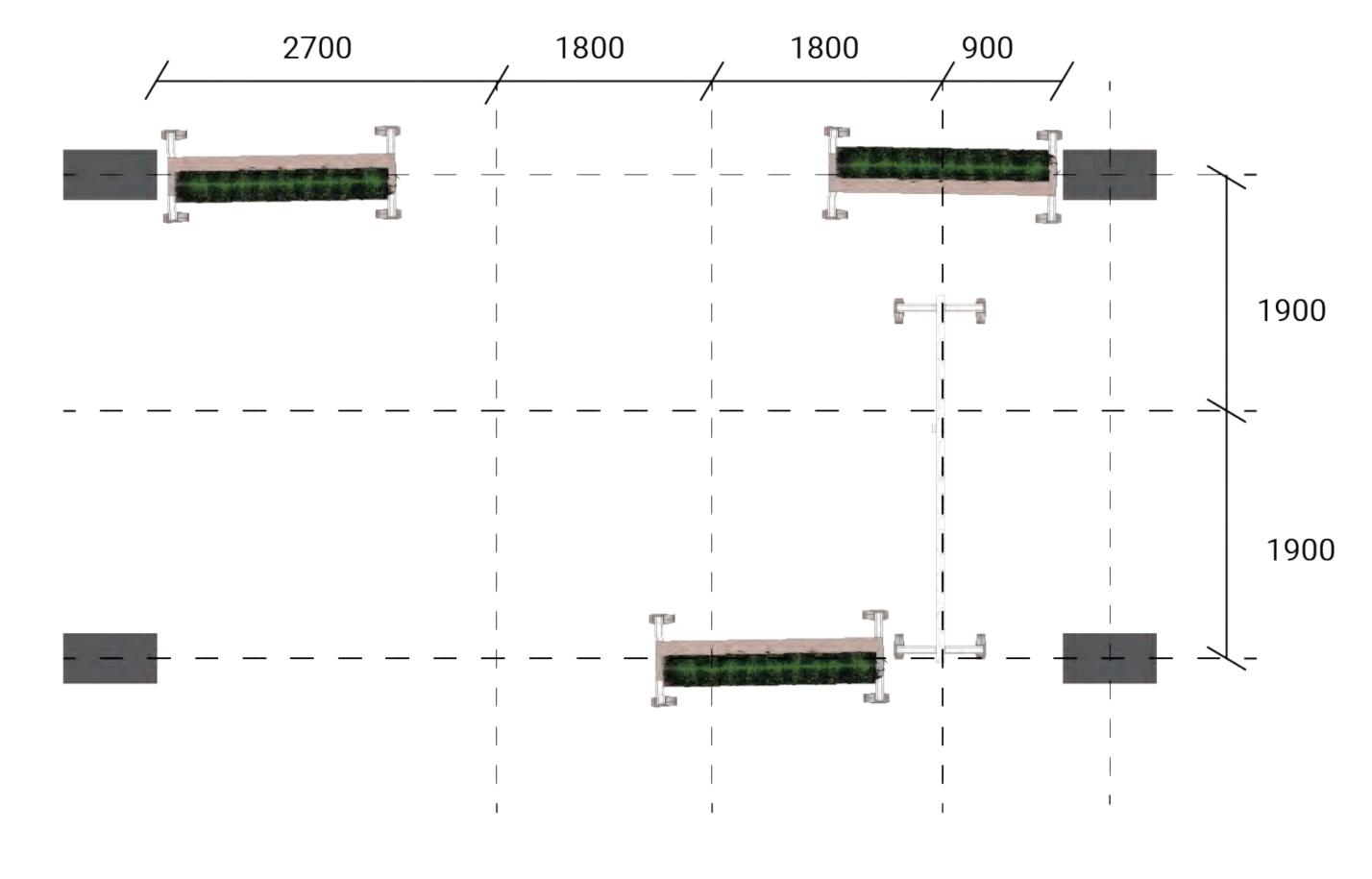
Start-up policy - roomdeviders catalogue



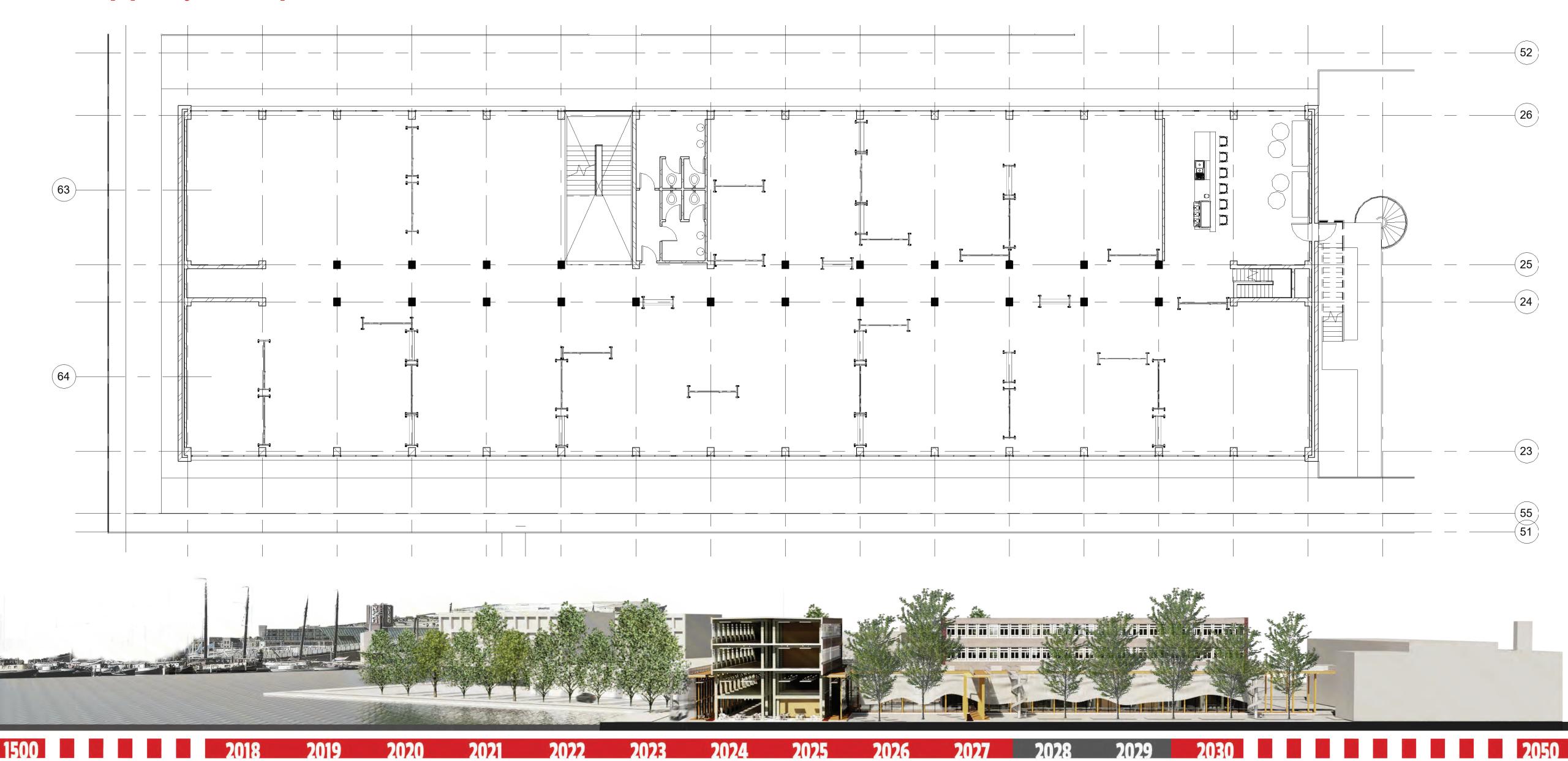


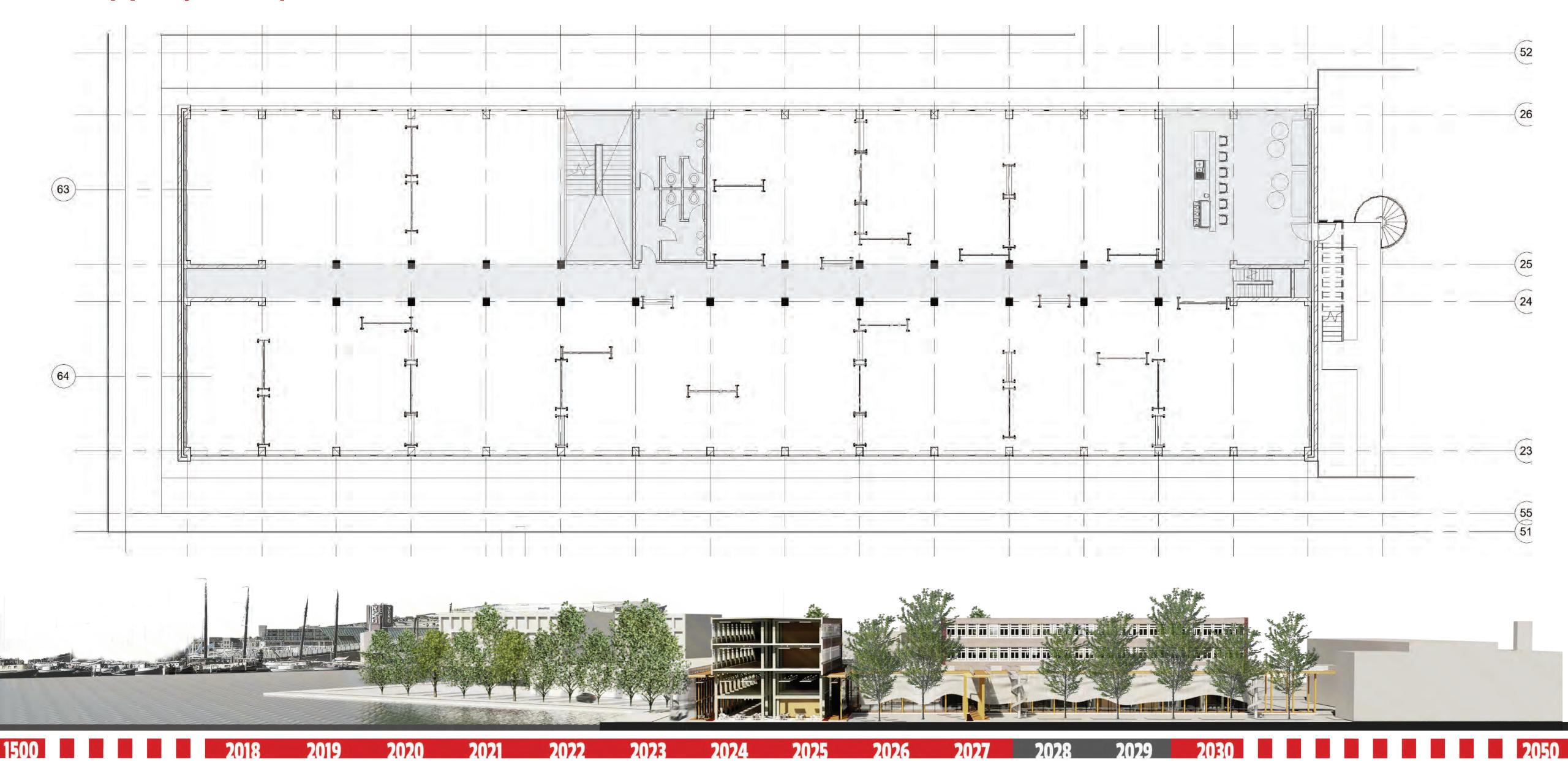


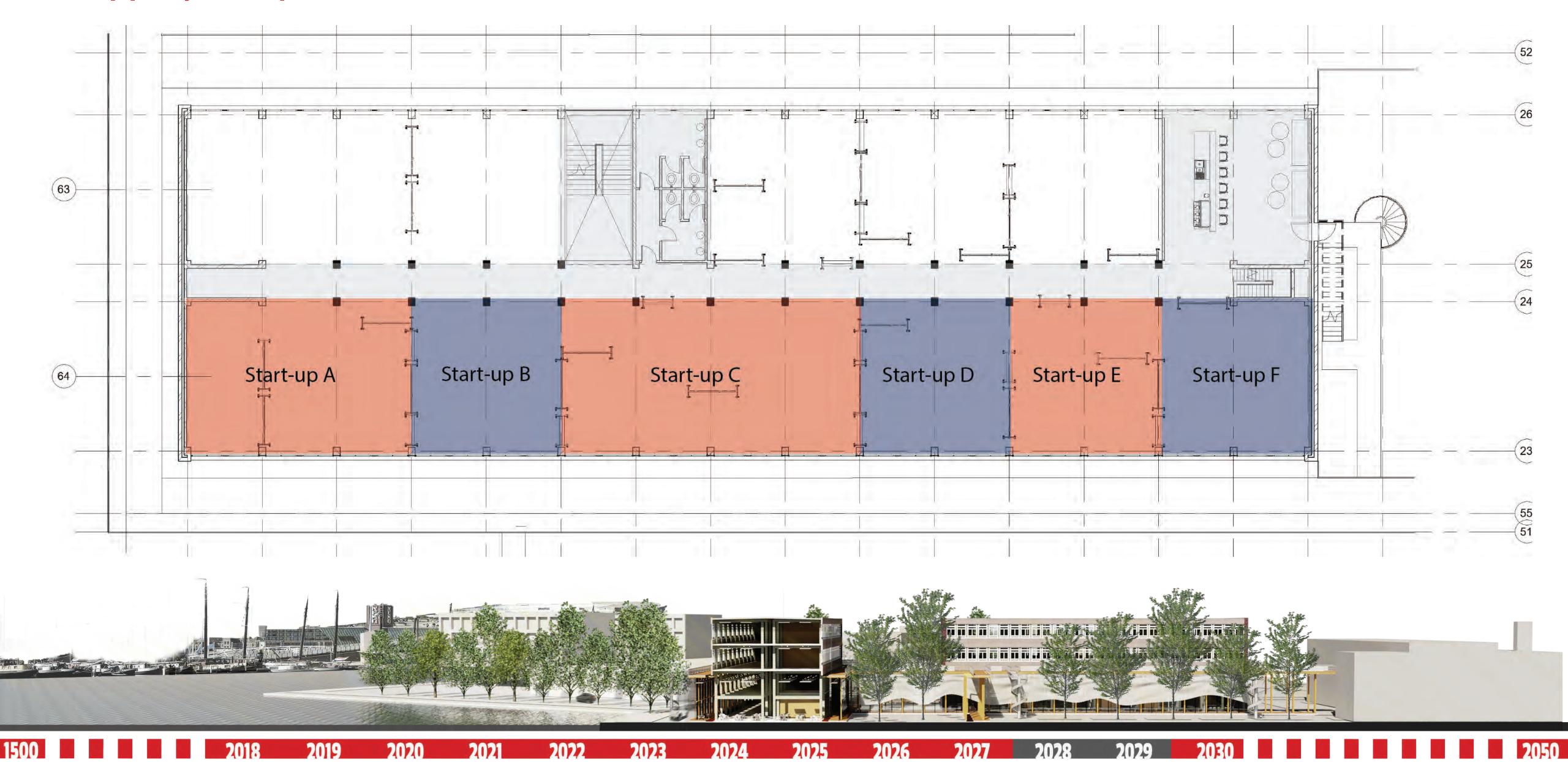
**Start-up policy - placement roomdeviders** 

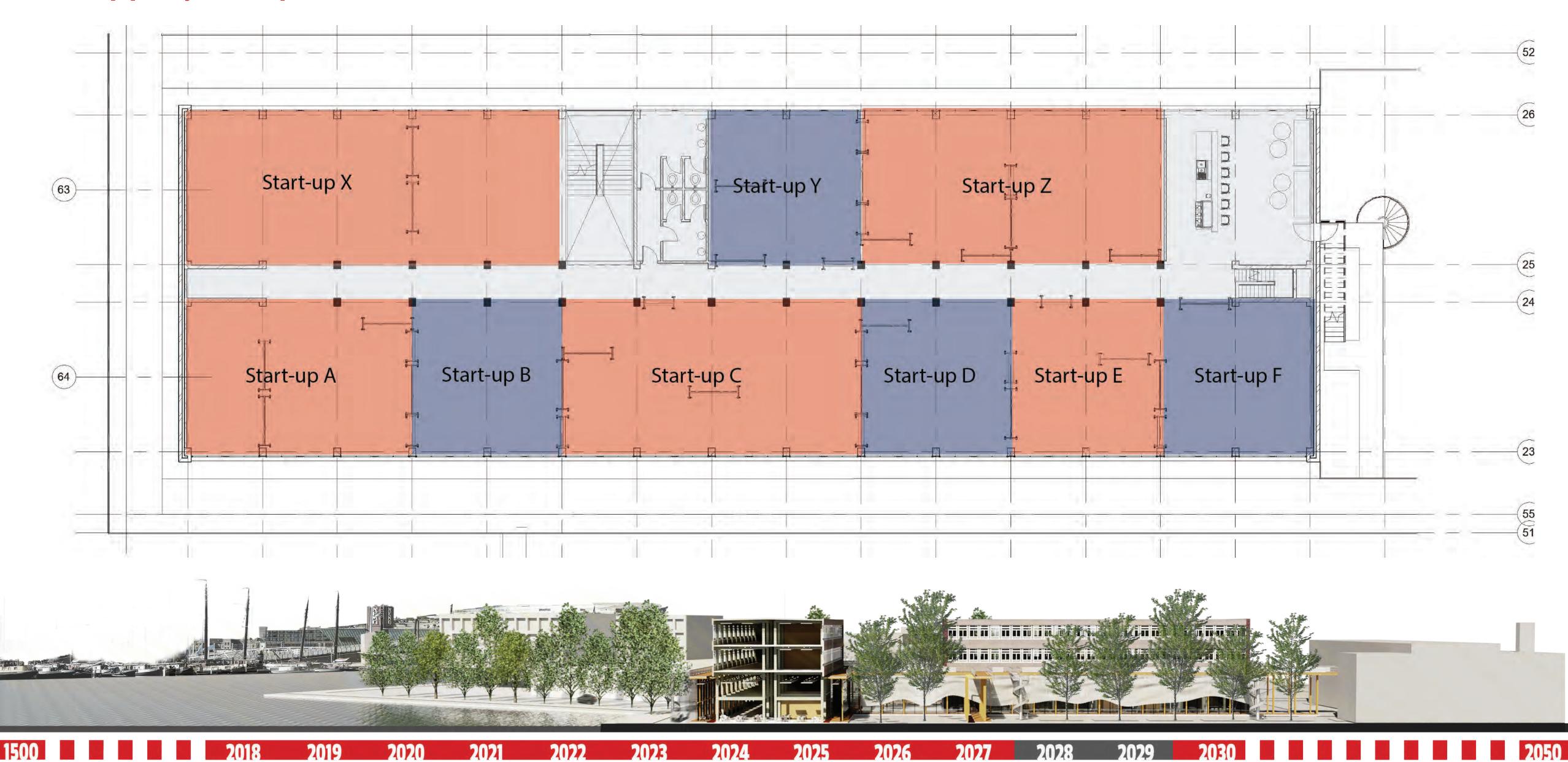




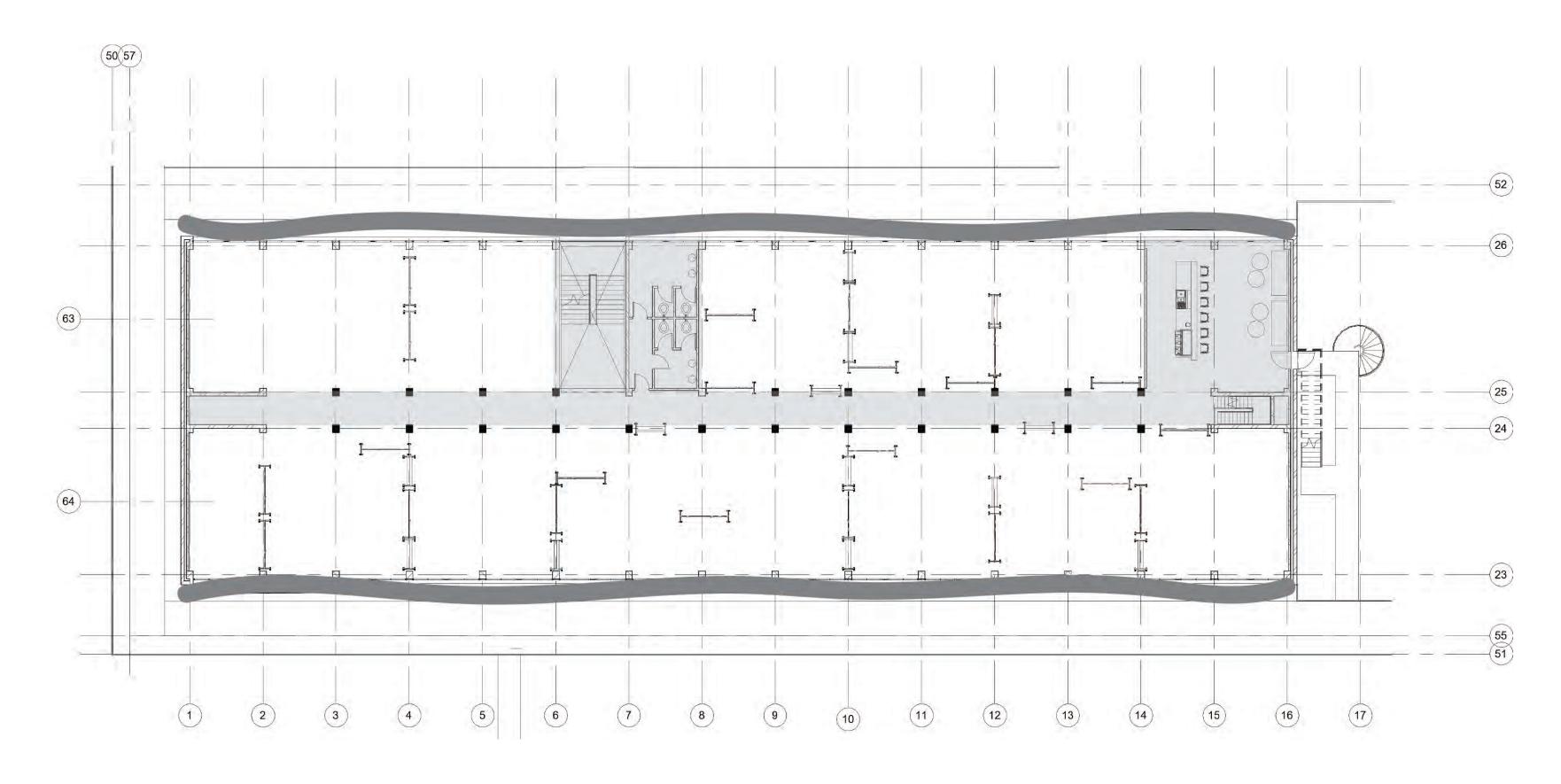








#### **Start-up policy - example floor**





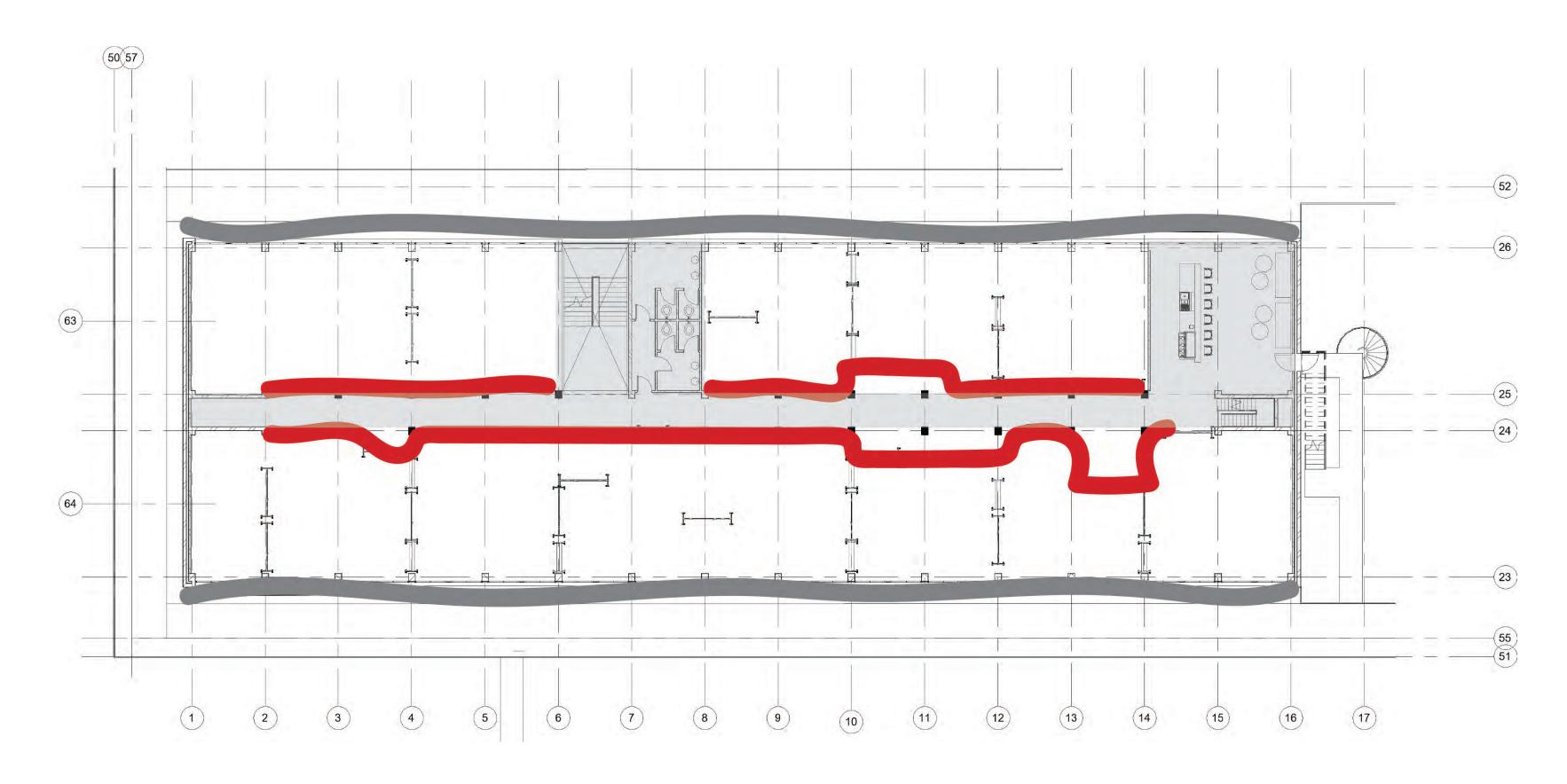




Exterior Signage: 'common goal': single style



#### **Start-up policy - example floor**









Exterior Signage: 'common goal': single style



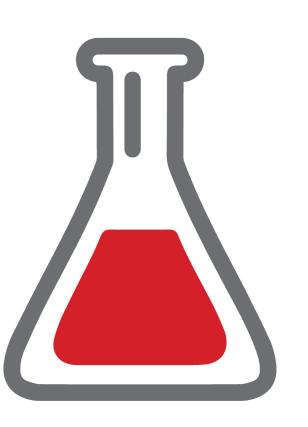


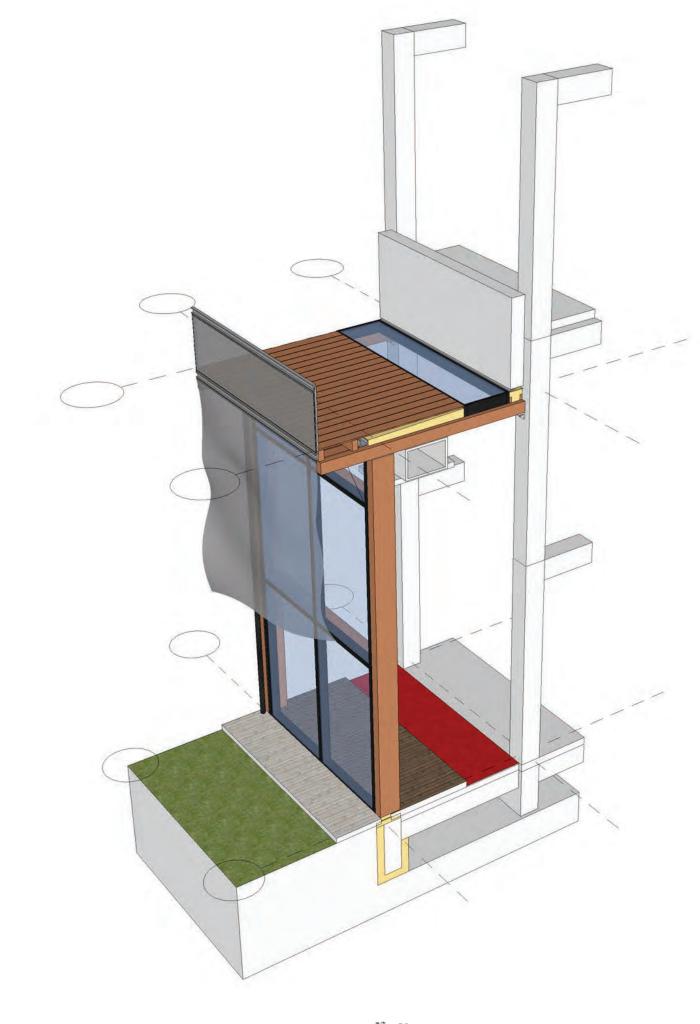
Interior Signage: Differentiate! Go nuts!



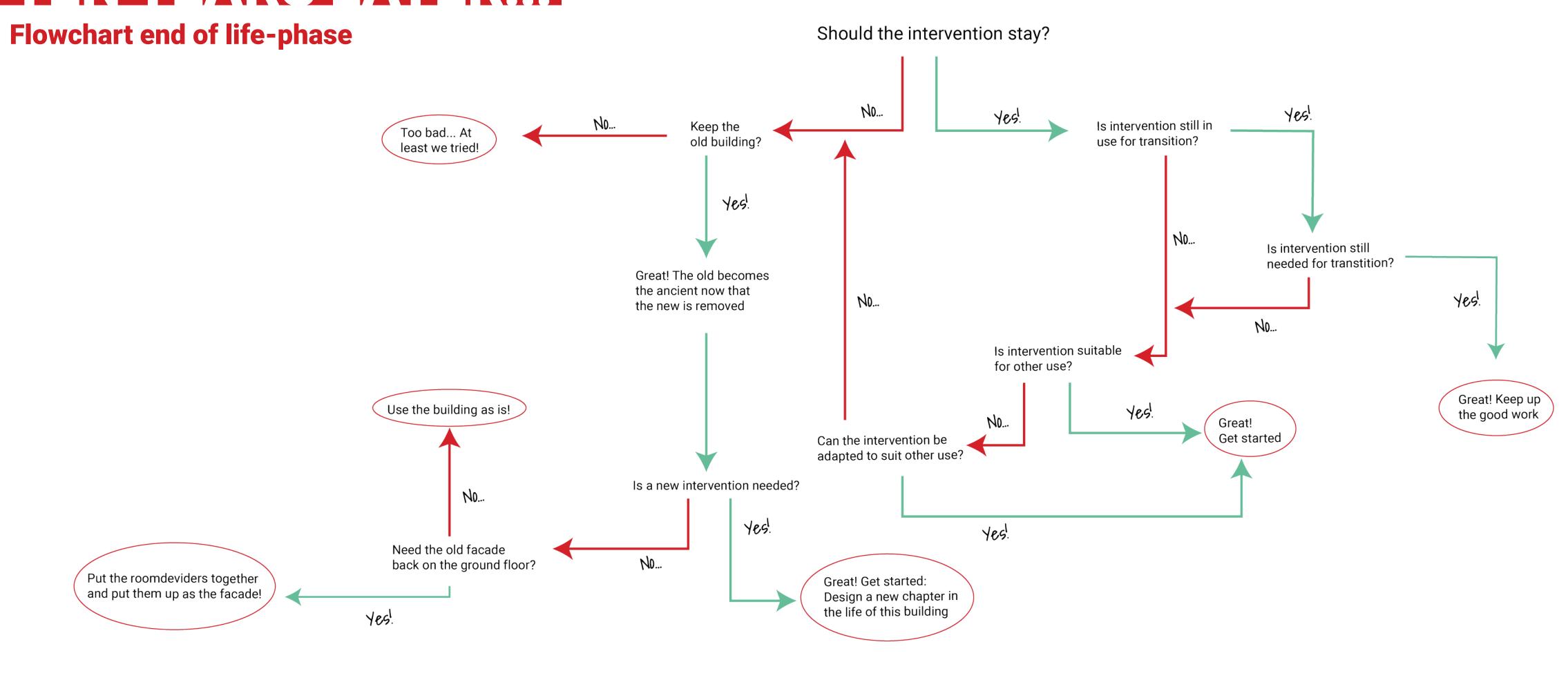
#### LIFESPAN OF THE BUILDING

**Living lab** 











Dismanteling the building



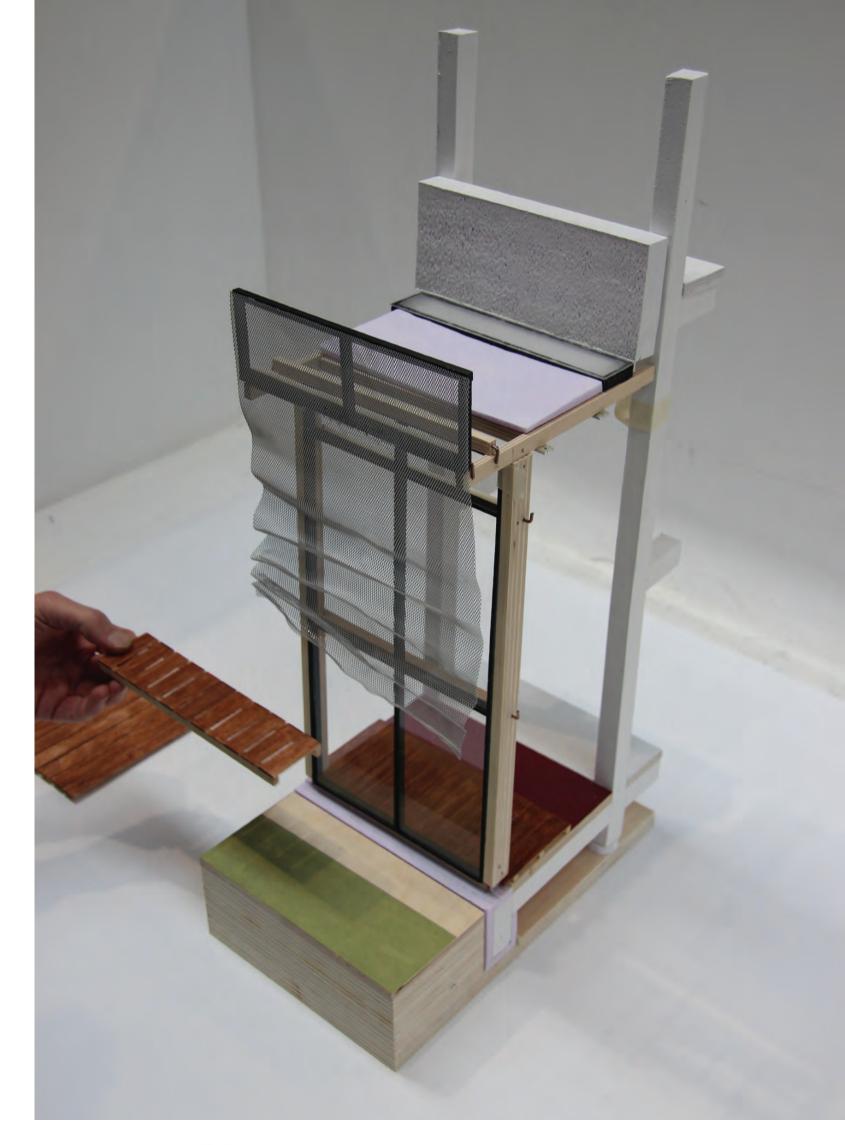


Dismanteling the building





Dismanteling the building





Dismanteling the building





Dismanteling the building





Dismanteling the building



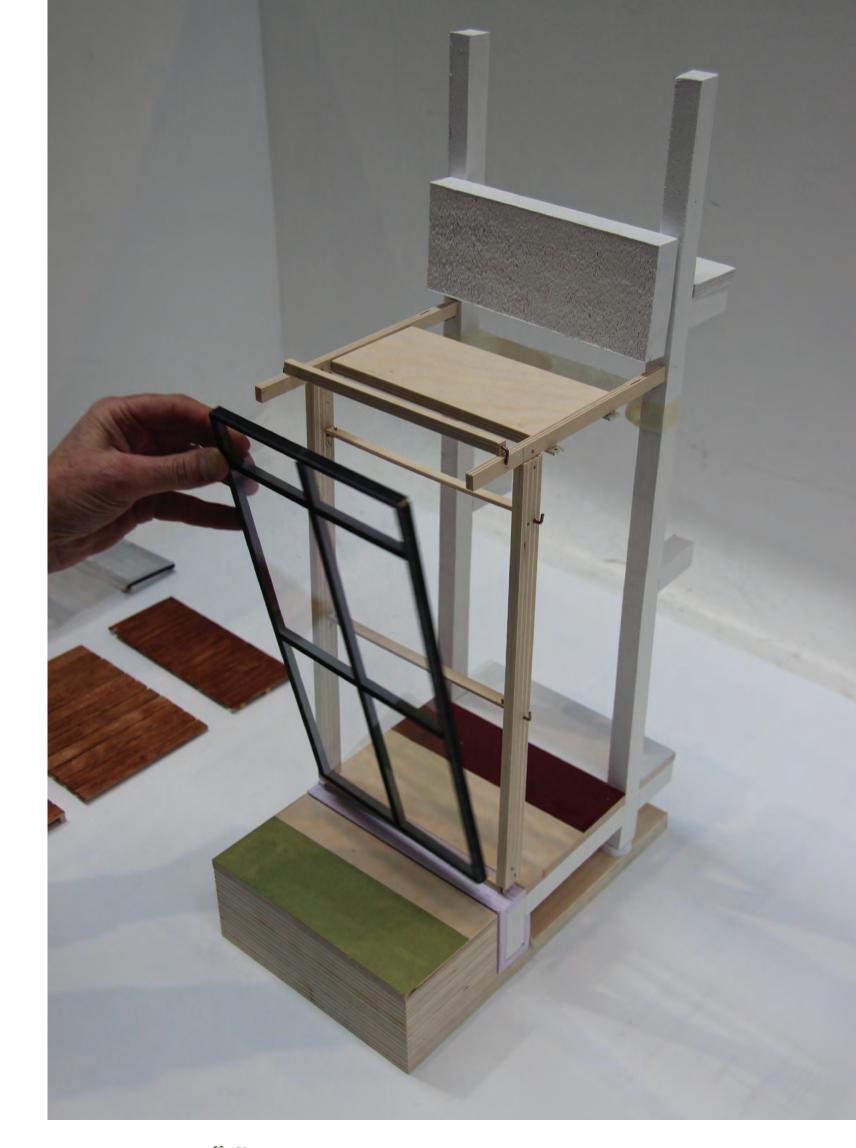


Dismanteling the building



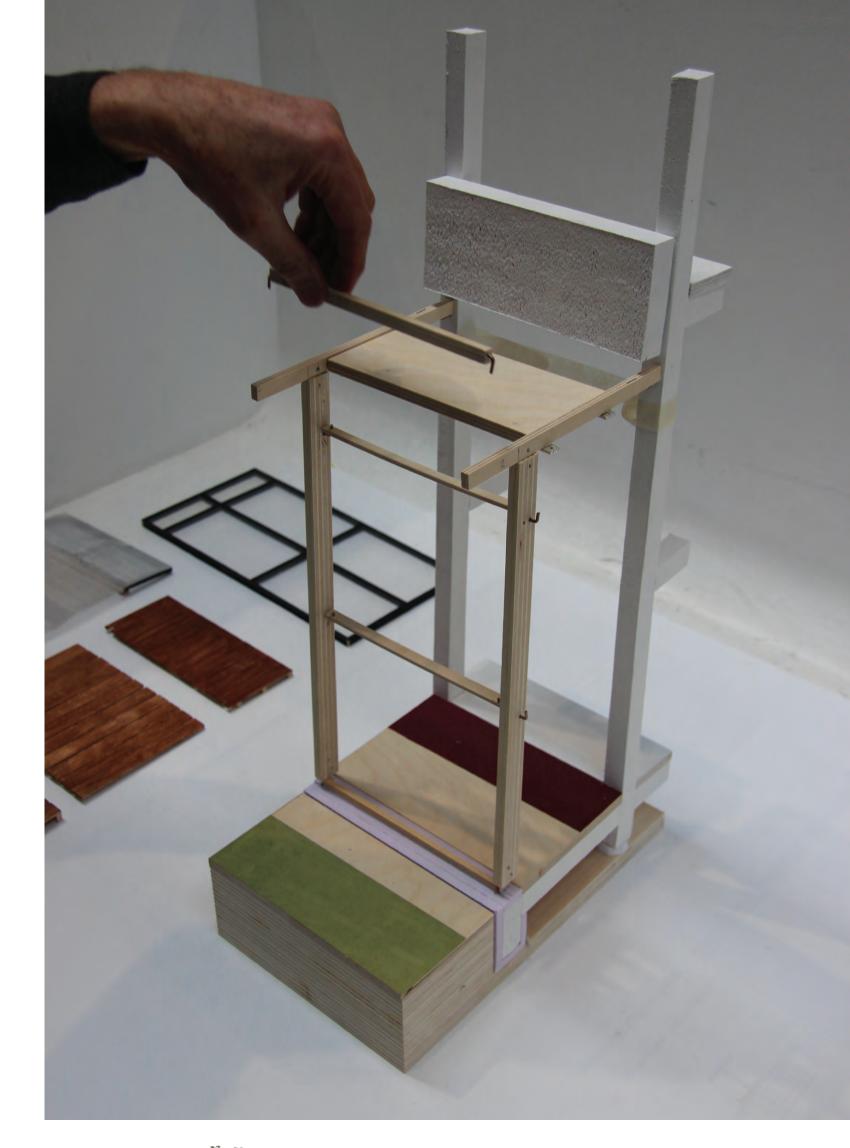


Dismanteling the building





Dismanteling the building





Dismanteling the building





Dismanteling the building





Dismanteling the building



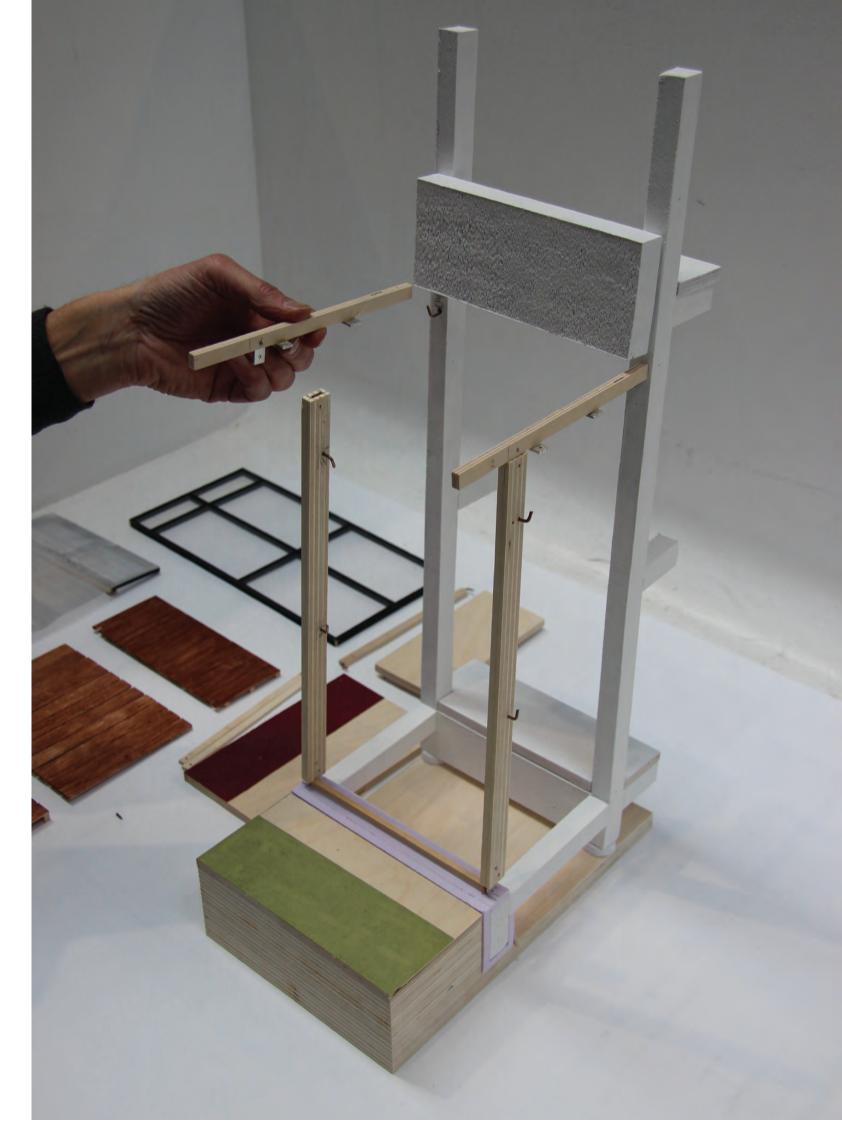


Dismanteling the building





Dismanteling the building



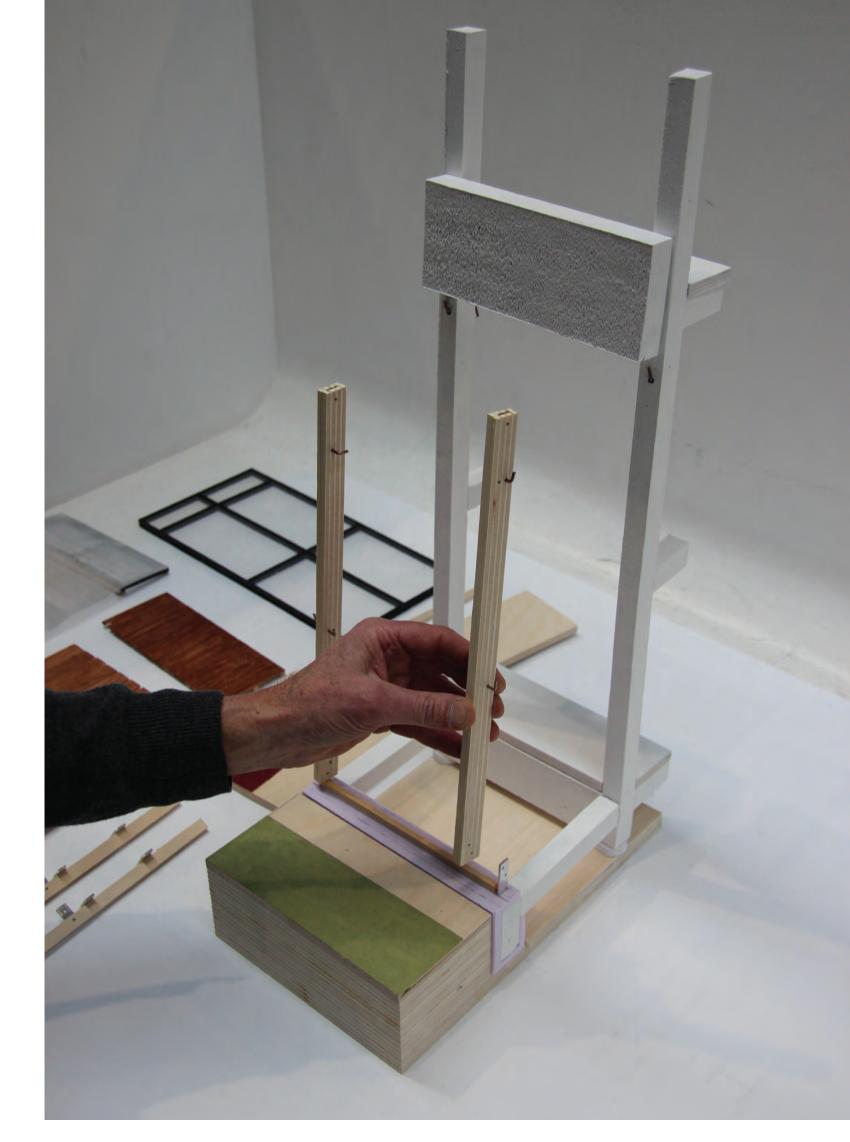


**Dismanteling the building** 



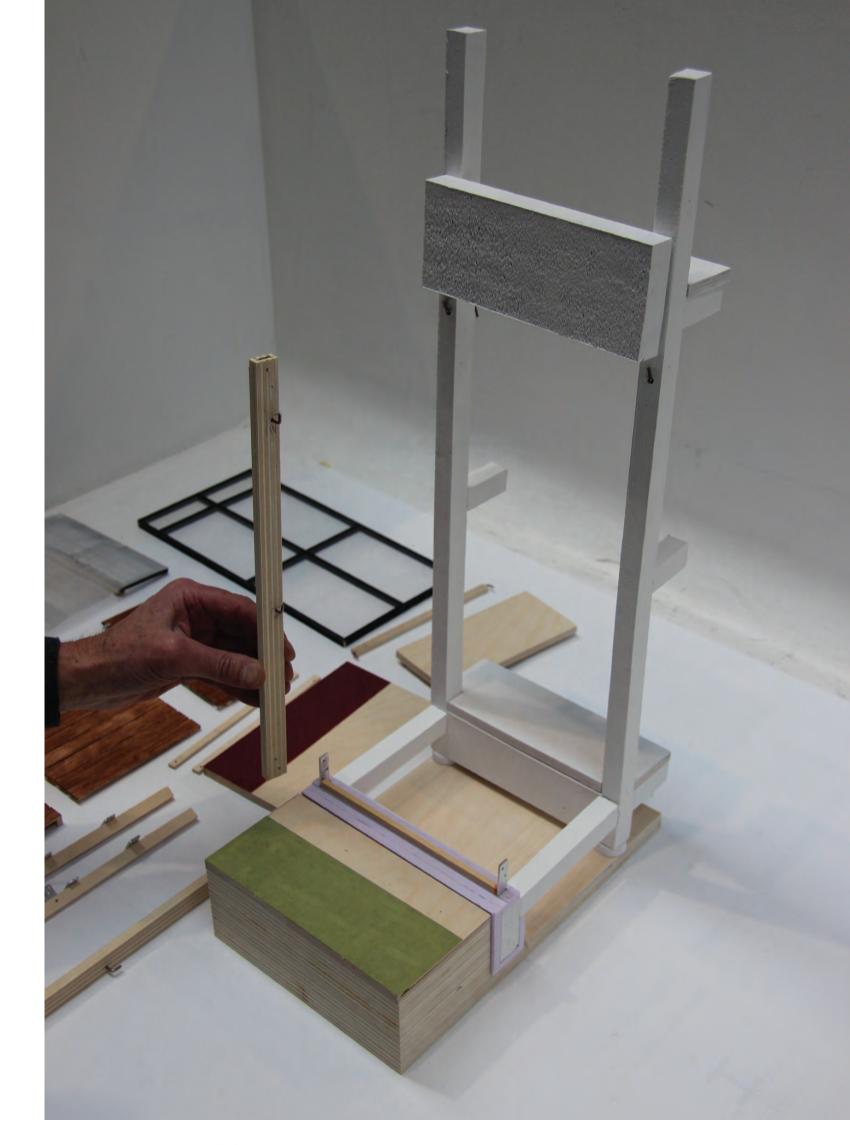


**Dismanteling the building** 





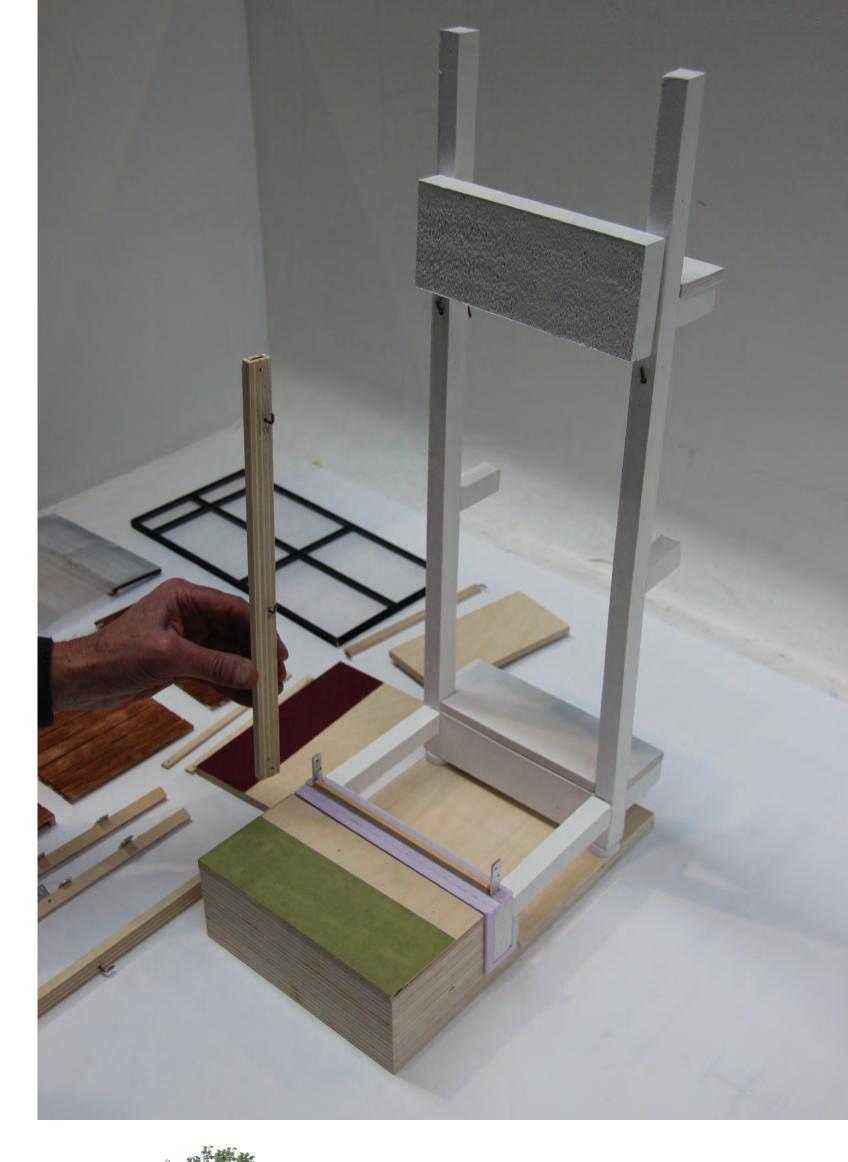
Dismanteling the building





Dismanteling the building

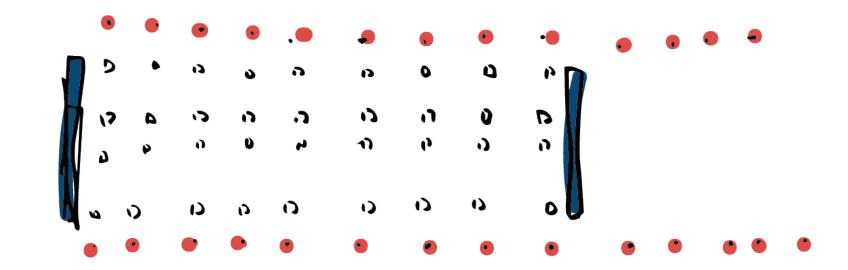






#### What is left behind?



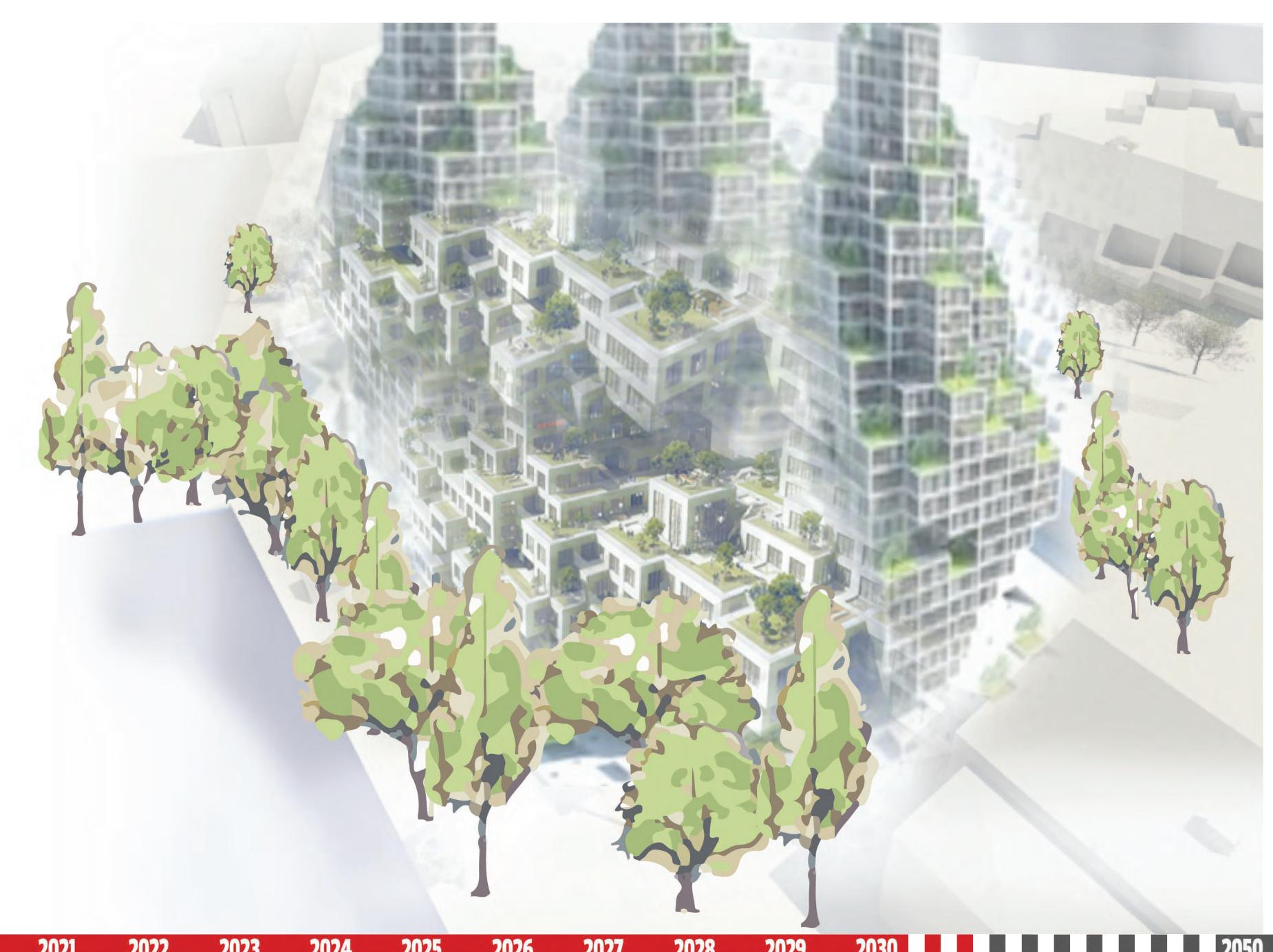






#### IN 2050...

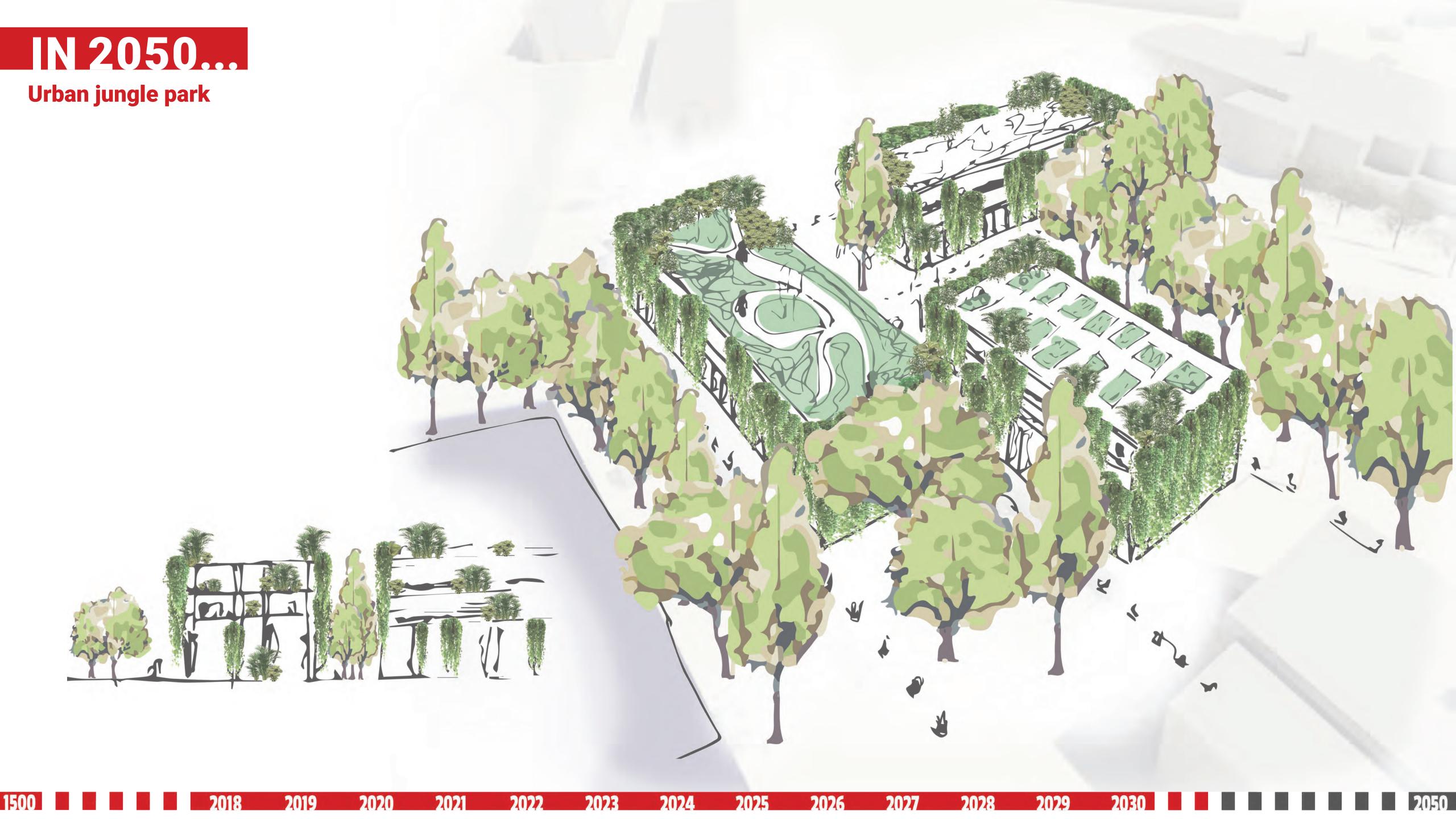
Or MVRDV/BIG



# IN 2050...

Or stacking



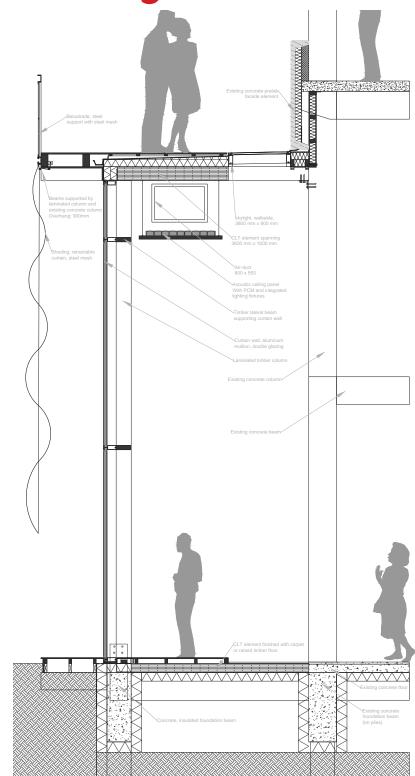


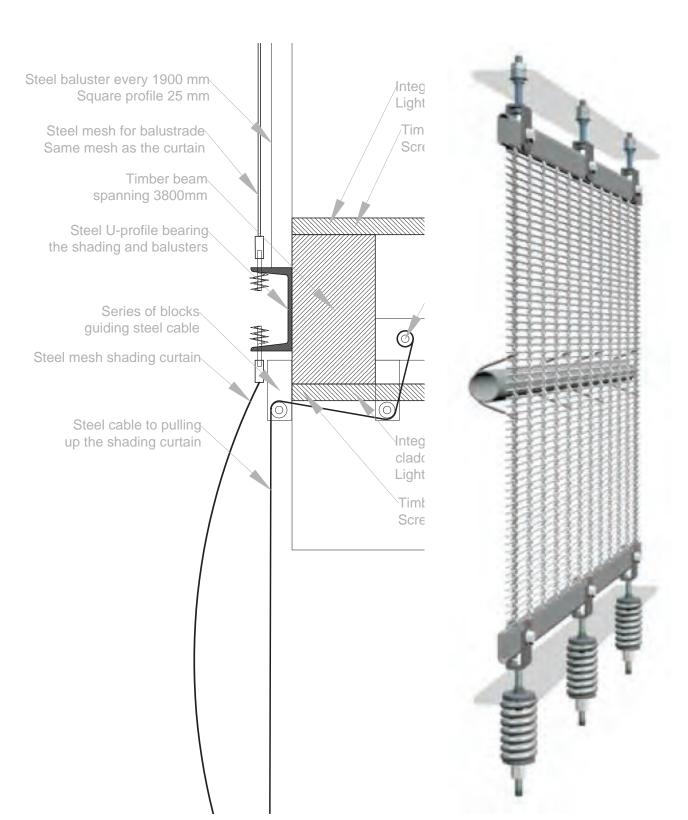
### **QUESTIONS?**

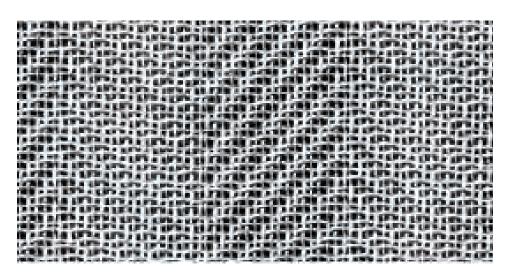


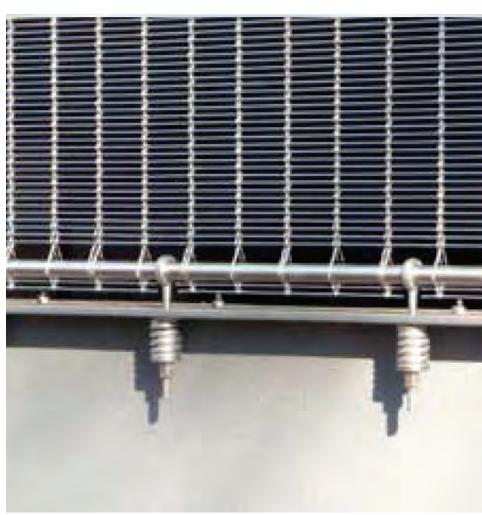
### CLIMATE DESIGN

**Shading curtains** 







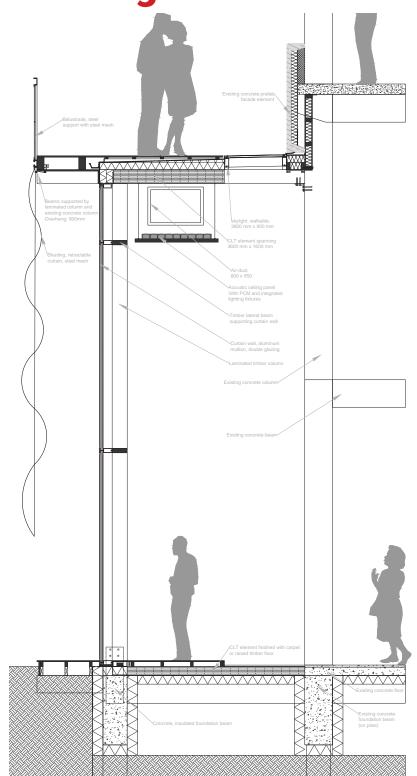


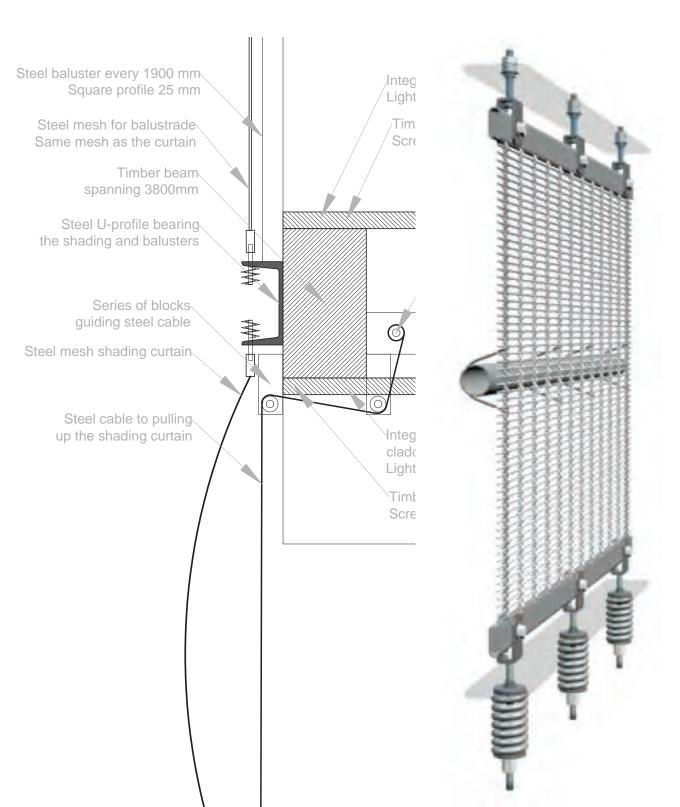


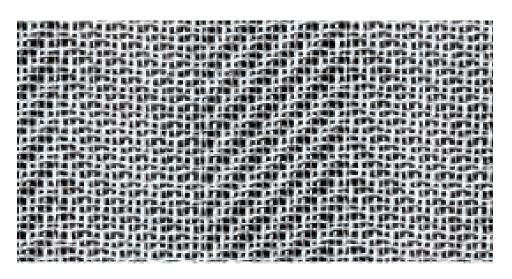


### CLIMATE DESIGN

**Shading curtains** 







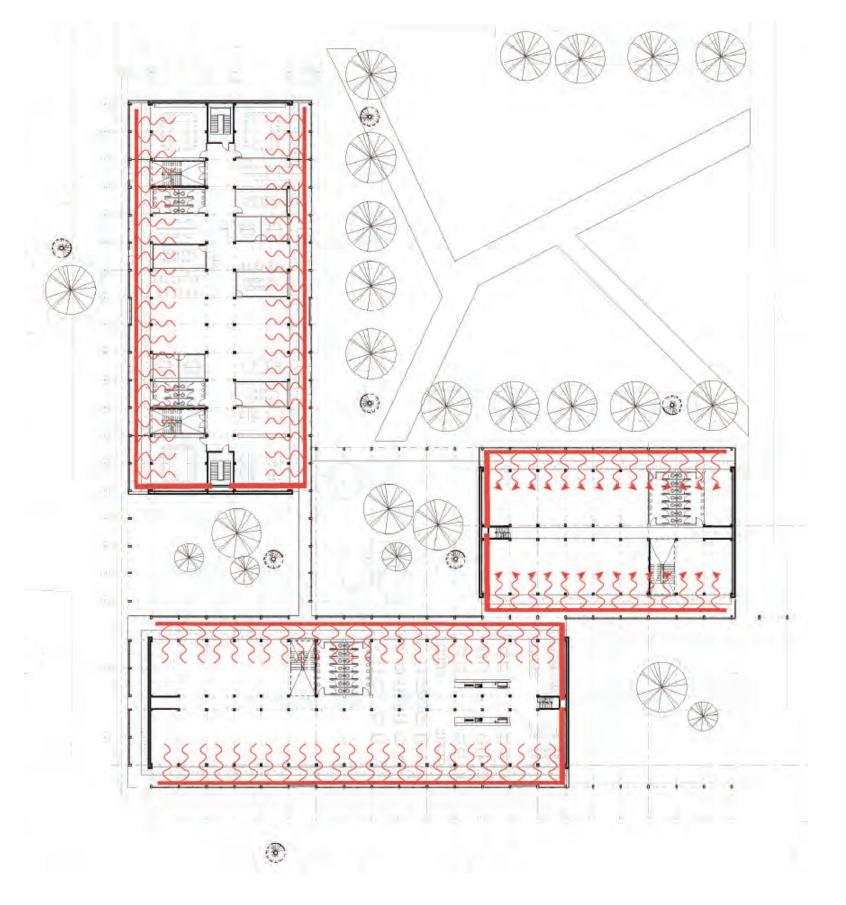


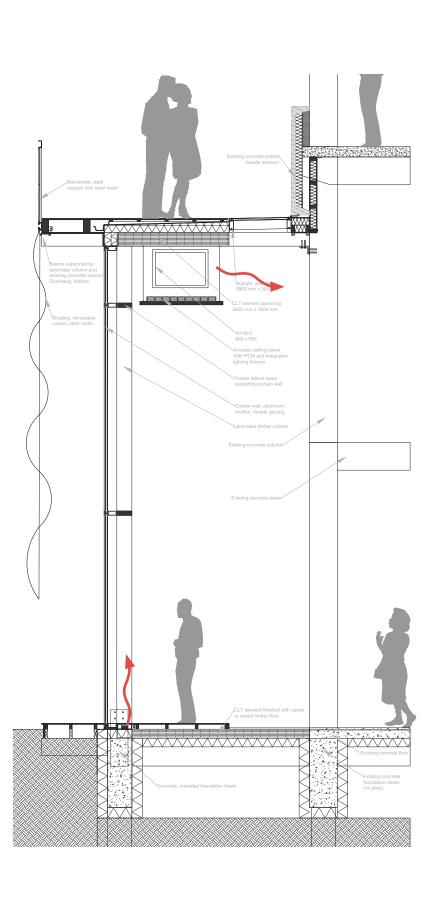


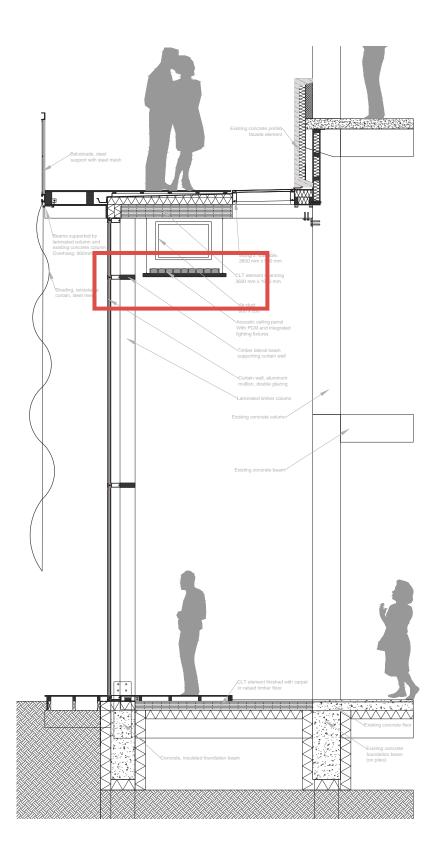


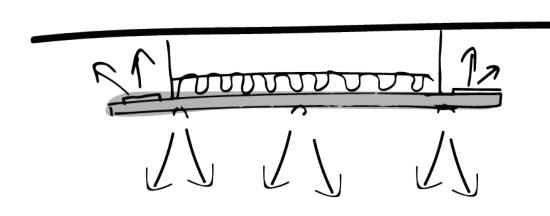
#### CLIMATE DESIGN

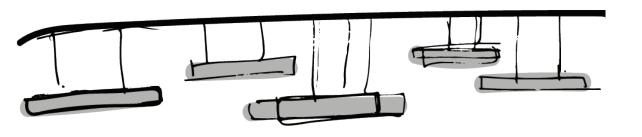
#### **Ventilation & Phase changing materials**









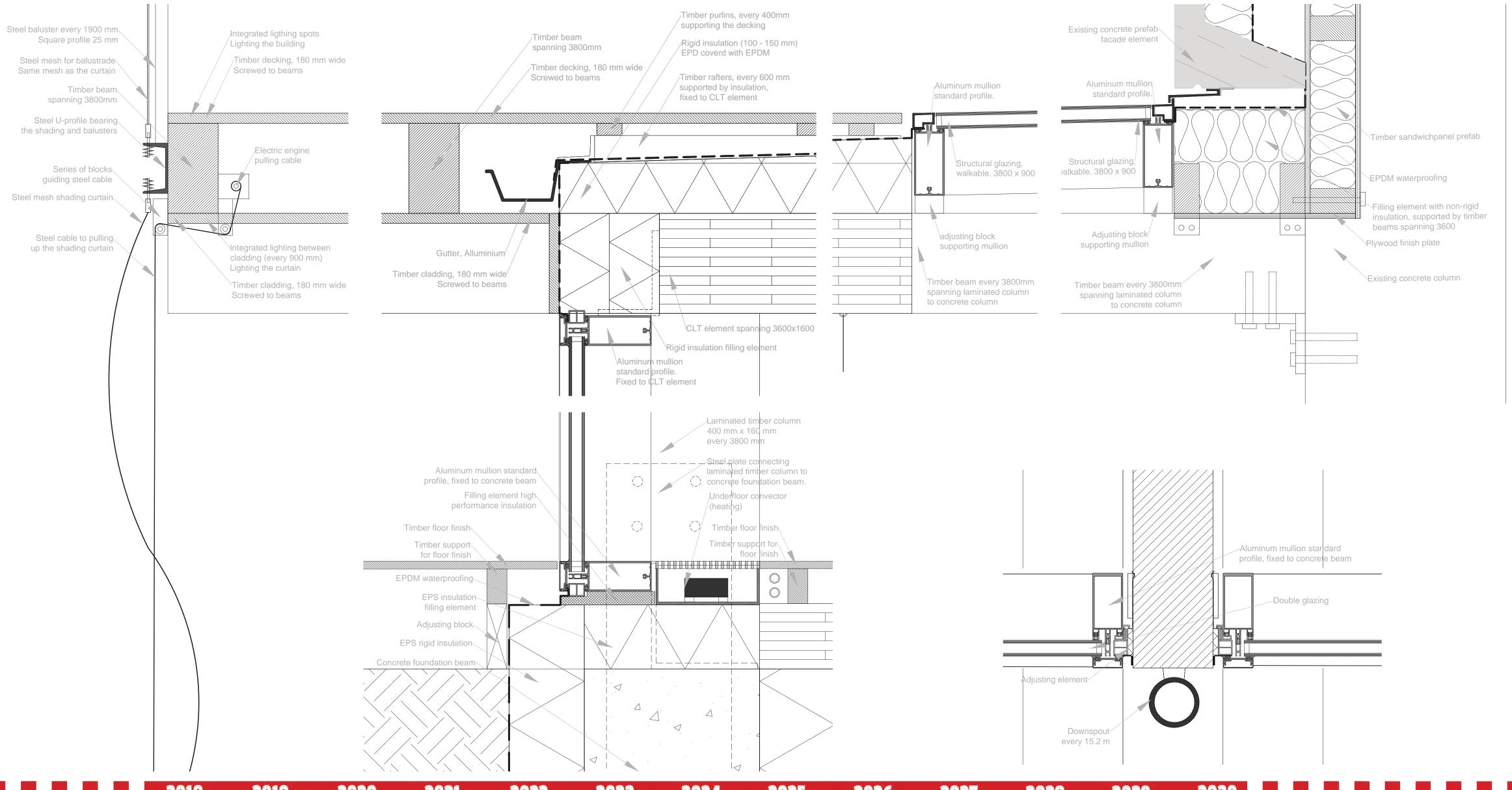




#### Top component Wall inside of the existing CLIMATE DESIGN with ventilation pipe structure not intersecting the beam. **Interior partition walls** 364 3600 4114 Glass partition wall Wall inside of the existing standard sizes structure not intersecting the beam. 740 900 3800 900 Timber partition wall standard sizes

#### TECHNICAL DESIGN

#### **Details**



#### DESIGN DETAILS

