SCARCITY Improving the urban fabric of Eindhoven, while optimizing the use of space AR0067 Architecture & Urban Design Daphne Homan, Ilse de Jong & Linde Jorritsma

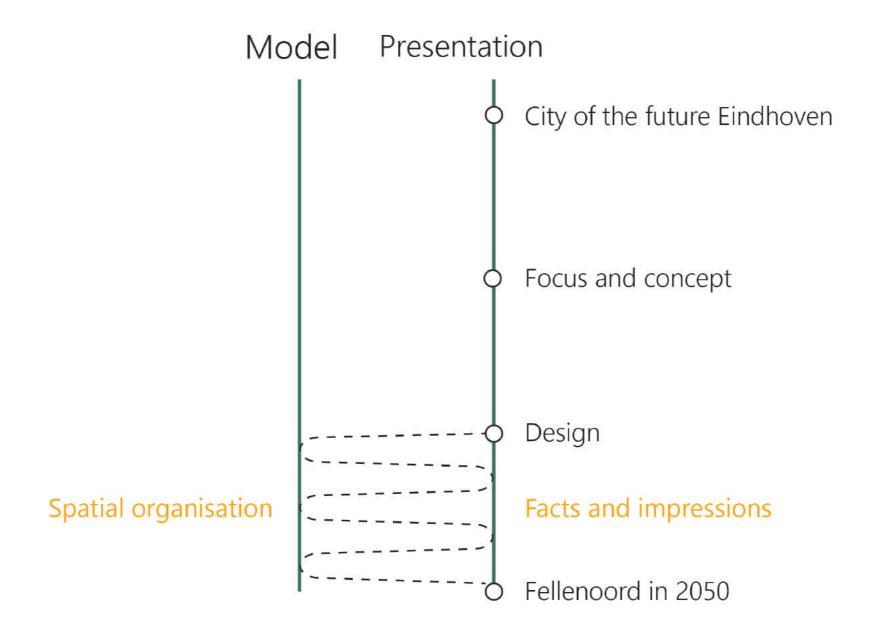
MOTIVATION

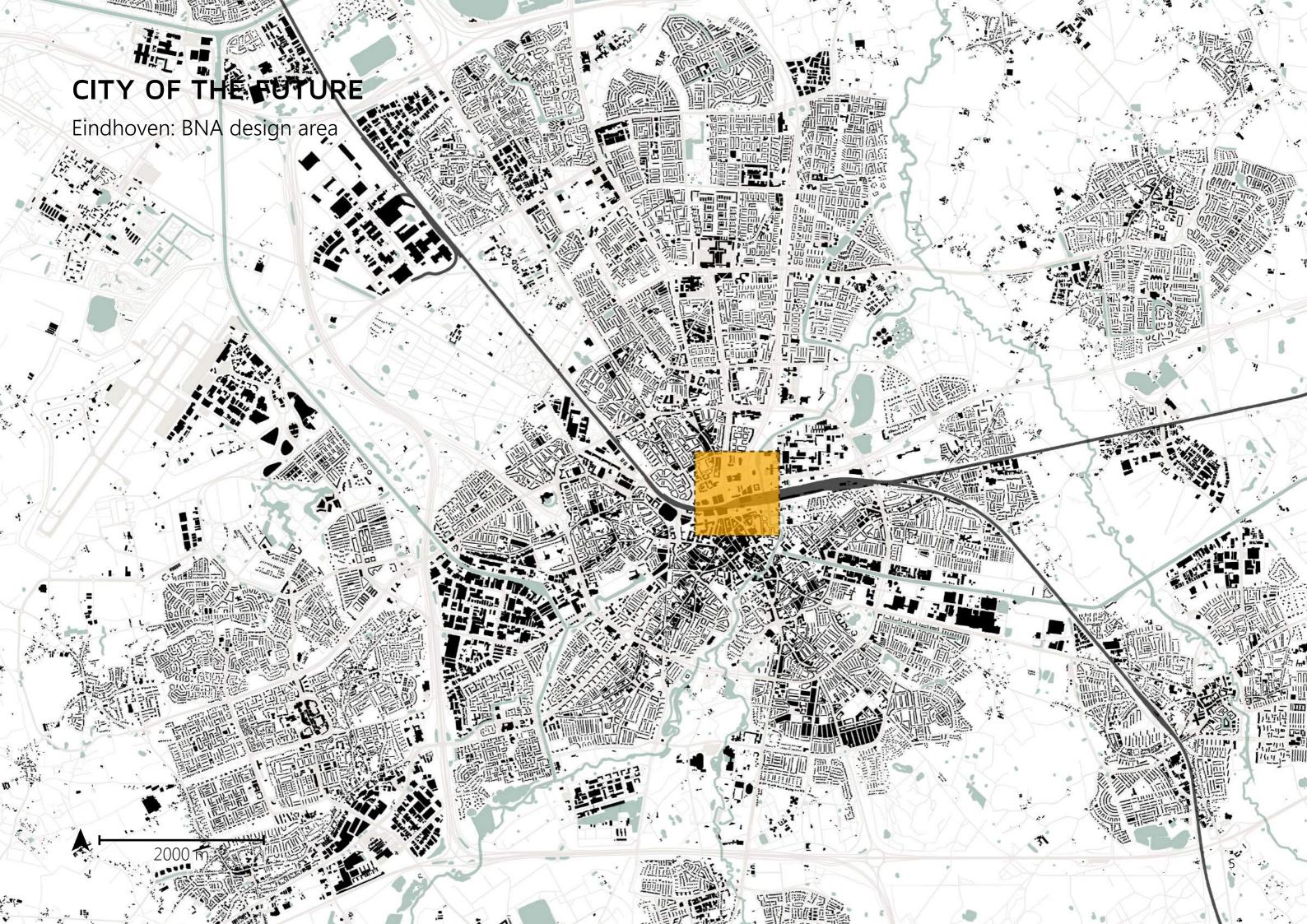
The Fellenoord district is one of the most important development areas in the city of Eindhoven, selected as a test case for the BNA City of the Future project.

The area is located right in the center of Eindhoven, including the station area and close to the old city center of Eindhoven and the TU Eindhoven. Infrastructure decisions in the past have led to Fellenoord turning into a non-human scale traffic machine, disrupting the urban fabric of Eindhoven in the heart of the city. Furthermore, the quality of public space is unacceptable due to unpleasant bicycle and pedestrian tunnels, inward-looking buildings, lack of lively functions and low quality green areas.

The city of the future needs more housing, more transport, more public space and so on, but there is only a limited amount of square meters. In other words: in the city of the future there is scarcity of space. This design proposal aims to attend the problems of the past and present in Eindhoven Fellenoord, while also attending to the scarcity of space in the future. It does so by introducing a platform to the site, which enables the layering of program and thus optimizing the use of space. The quality of public space and program improves, while keeping an efficient transport system. This means that in the future, Fellenoord will be a pleasant place to pass through, but stay as well.

CONTENT



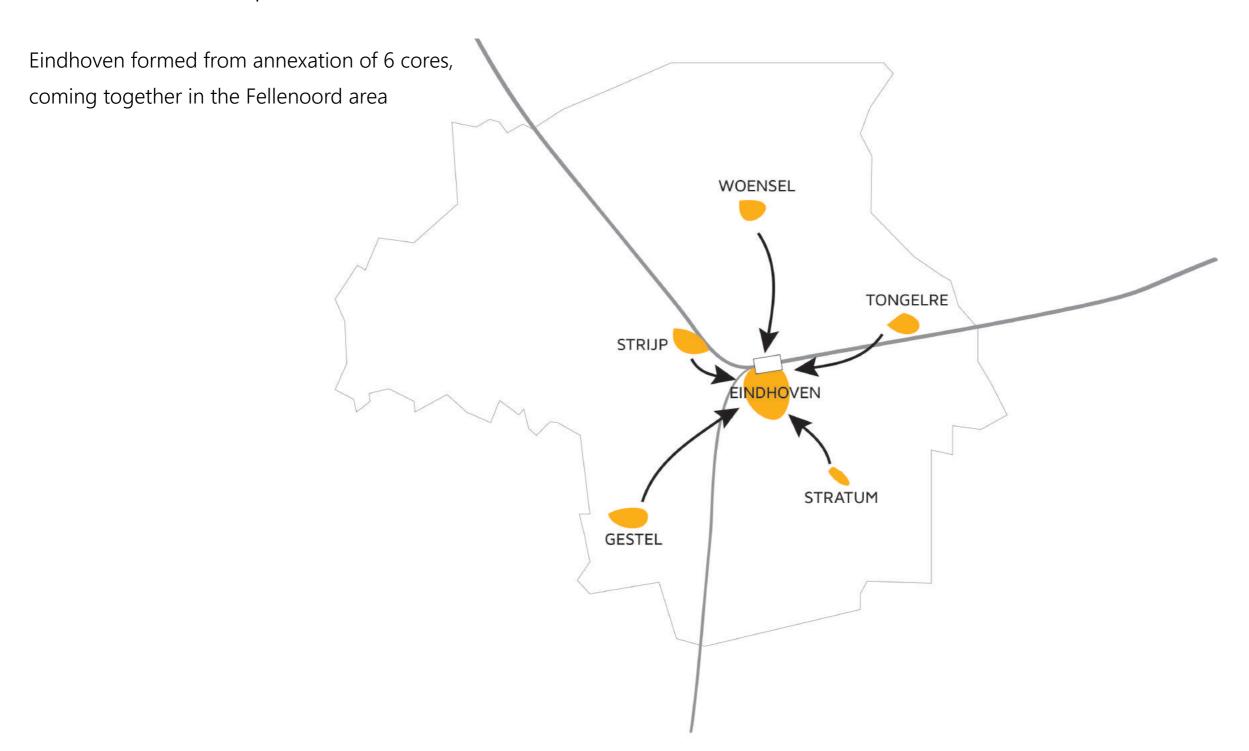


Strategy

SOLVING PROBLEMS CREATED IN THE PAST TO IMPROVE THE PRESENT SITUATION WHILE PREPARING FOR THE DEMANDS OF THE FUTURE

THE CITY OF THE FUTURE

Past: historic development



THE CITY OF THE FUTURE

Past: construction of the Fellenoord road



Dividing the urban traffic

Present: Fellenoord as a traffic machine



Dominance of the car infrastructure



Unsufficient bicycle parking



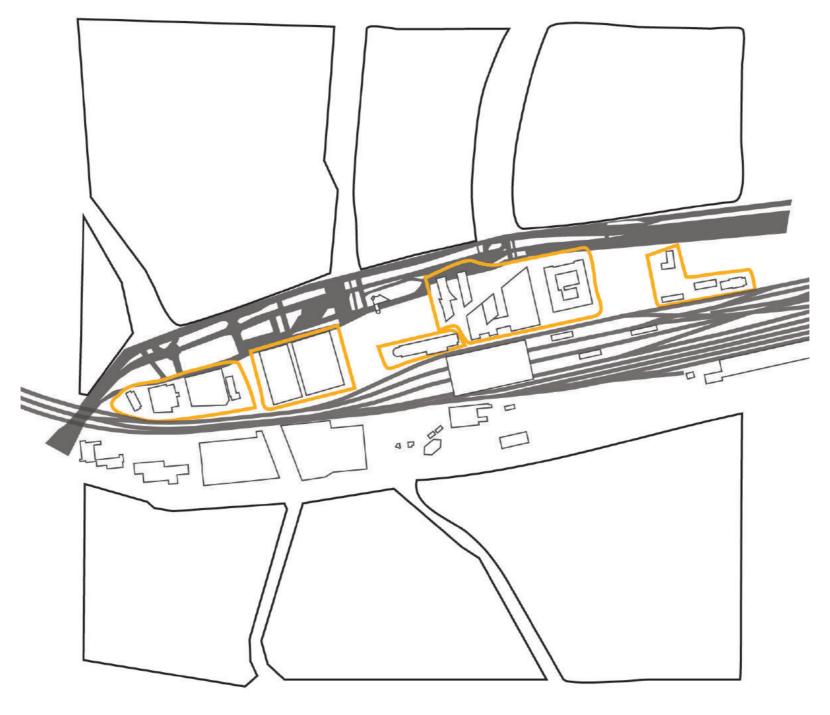
Unpleasant cycling routes



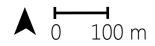
Unsafe and unsufficient busstation

THE CITY OF FUTURE

Present: effects of infrastructure decision

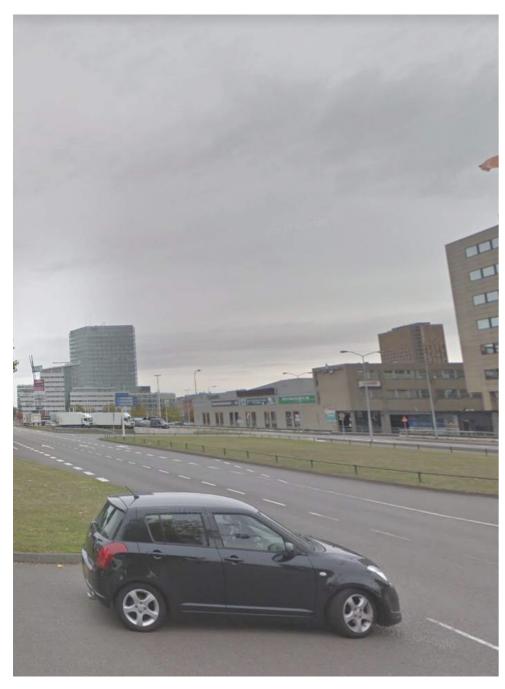


Scars from the past resulting in fragmented zone



CITY OF FUTURE

Present: low quality public space and non futureproof area

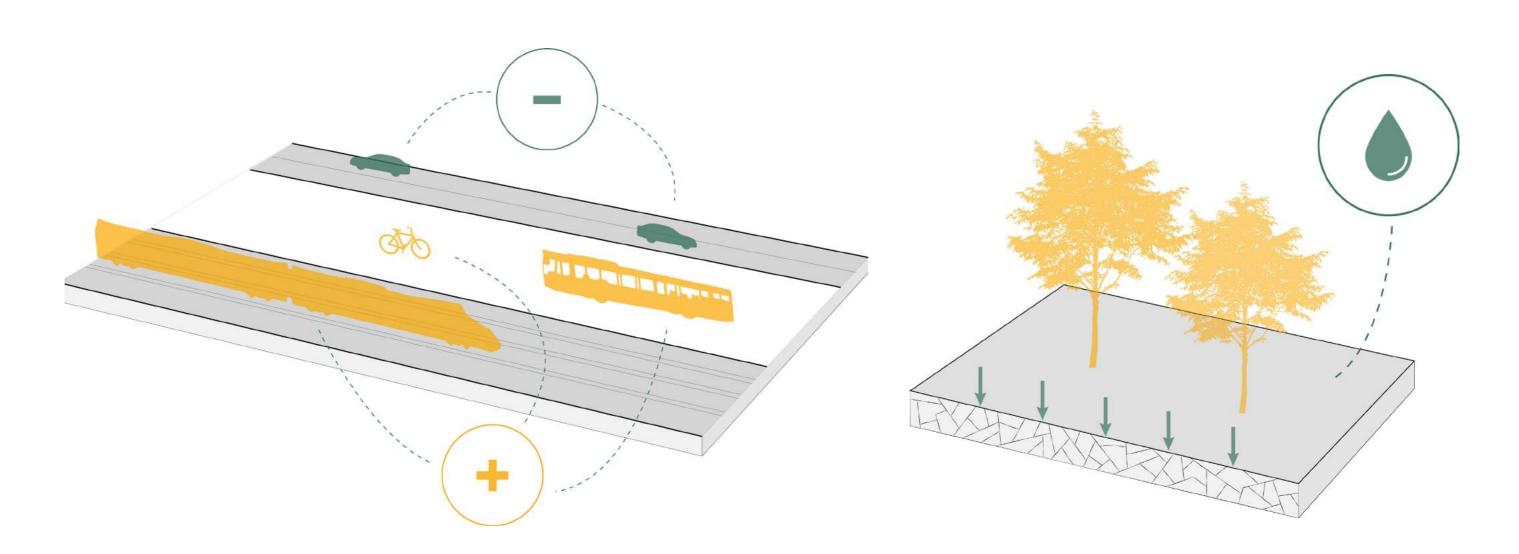






Low quality green Closed plinth Flooding of tunnels

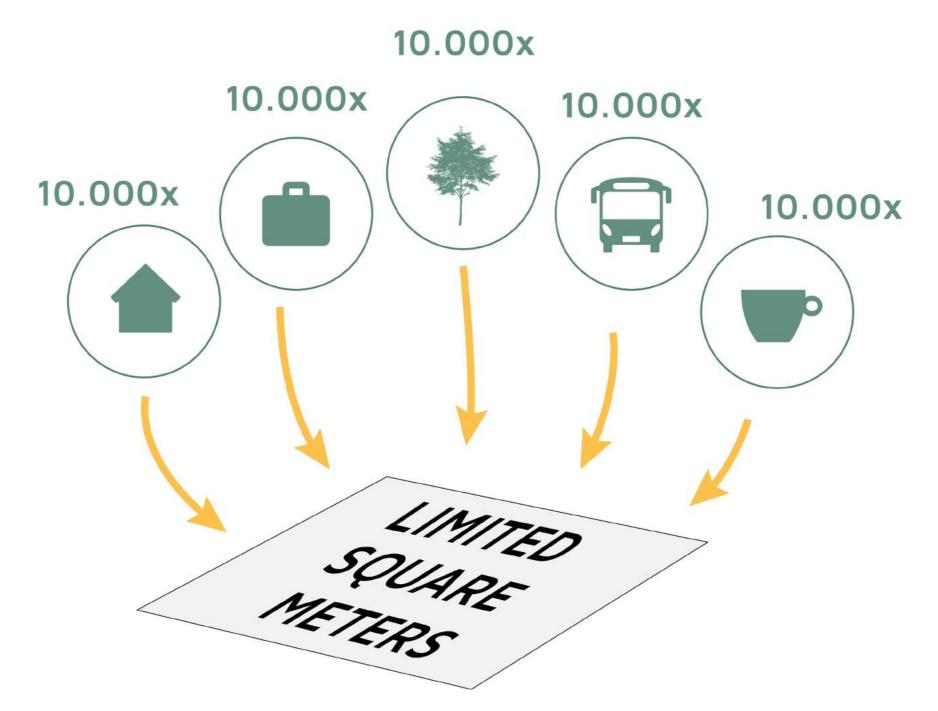
Future: developments and demands



Increase public transport and bicycle traffic, change in car use

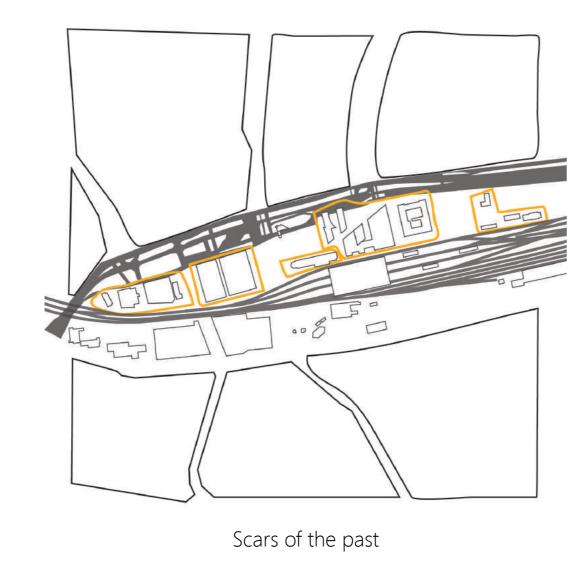
Climate adaptiveness

Future: demands for Fellenoord



High demand creates scarcity of space

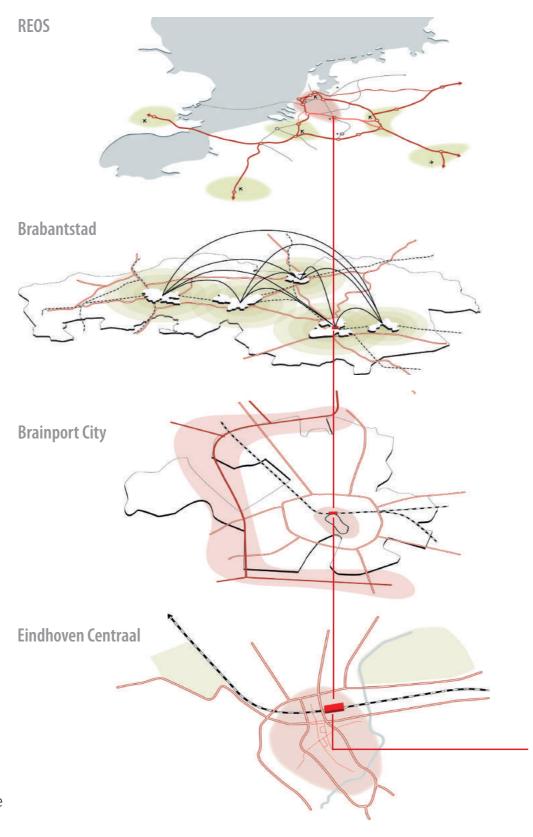
Future: attending to scars and scarcity



10.000x 10.000x 10.000x 10.000x 10.000x 10.000x

Scarcity of the future

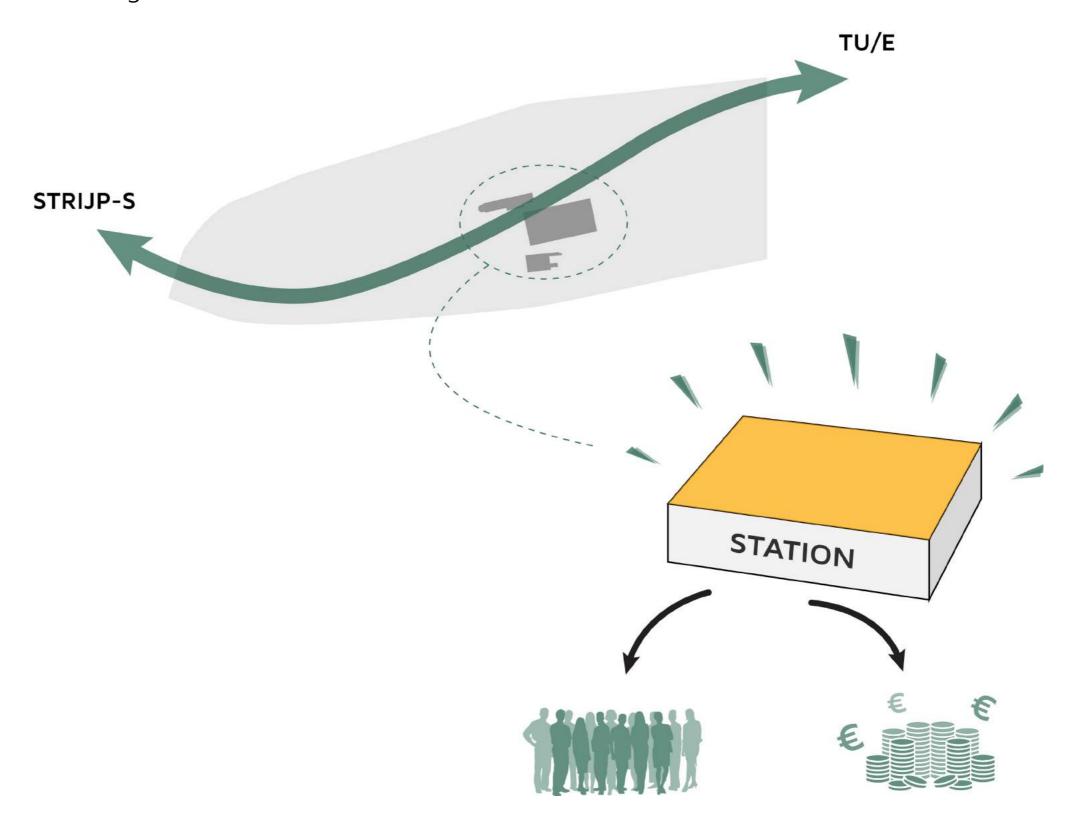
Present opportunities: central in Brainport



Source: Urhahn | stedenbouw & strategie in opdracht van gemeente Eindhoven December 2017

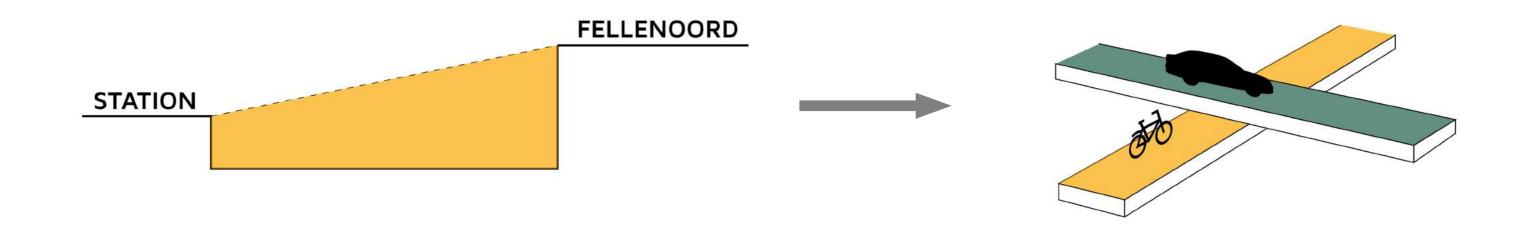
THE CITY OF THE FUTURE

Present opportunities: strategic location



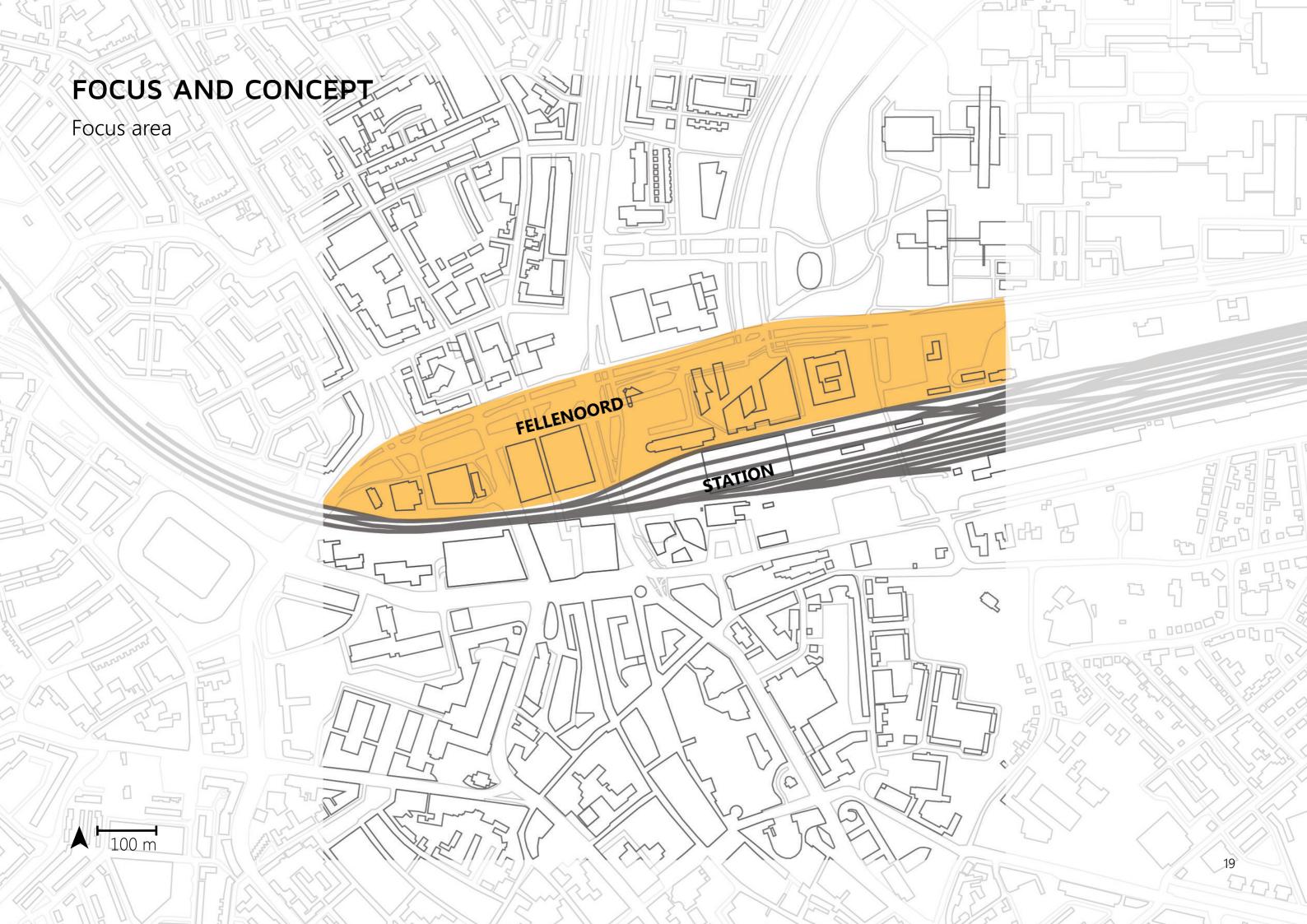
THE CITY OF THE FUTURE

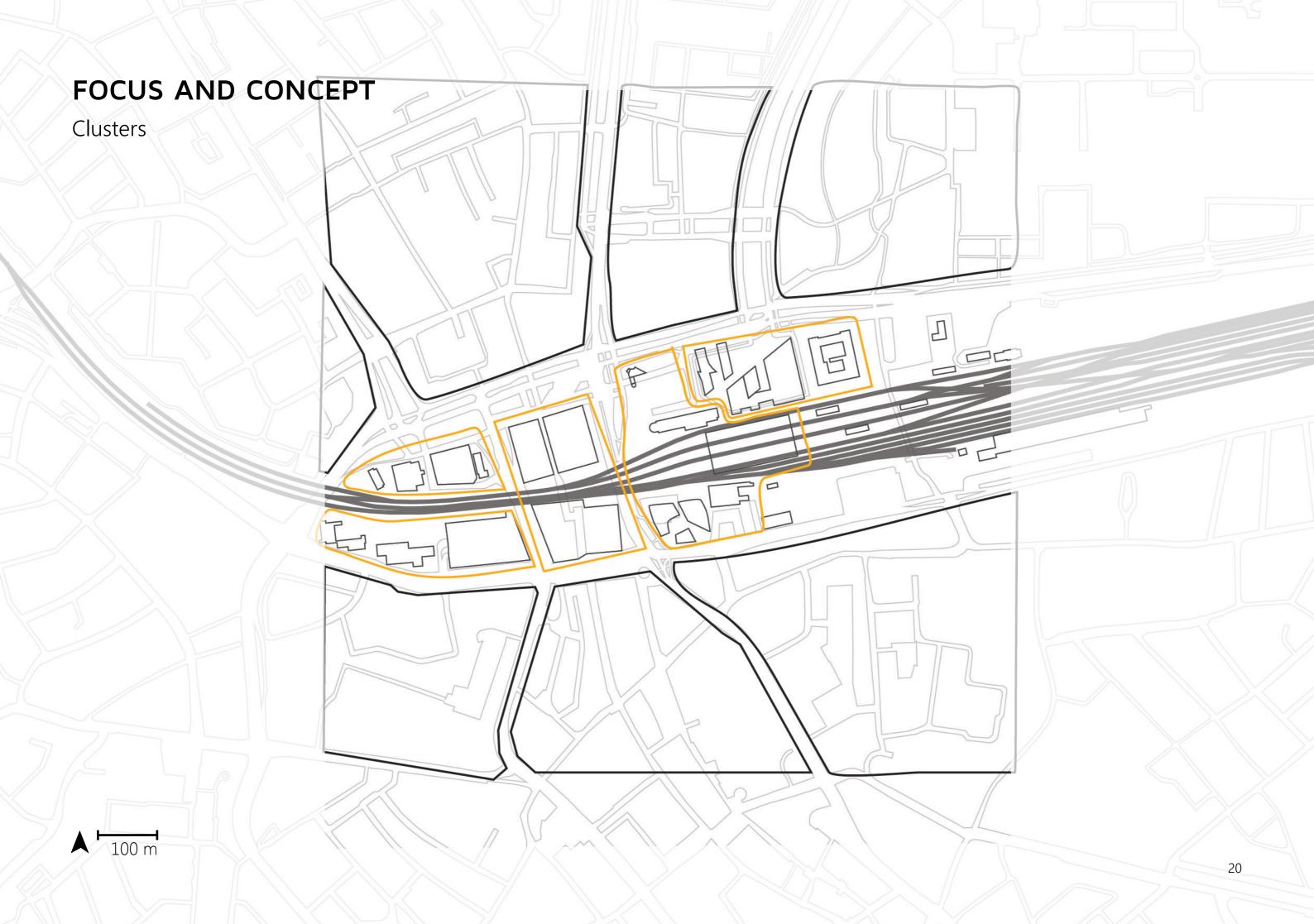
Present opportunities: height differences

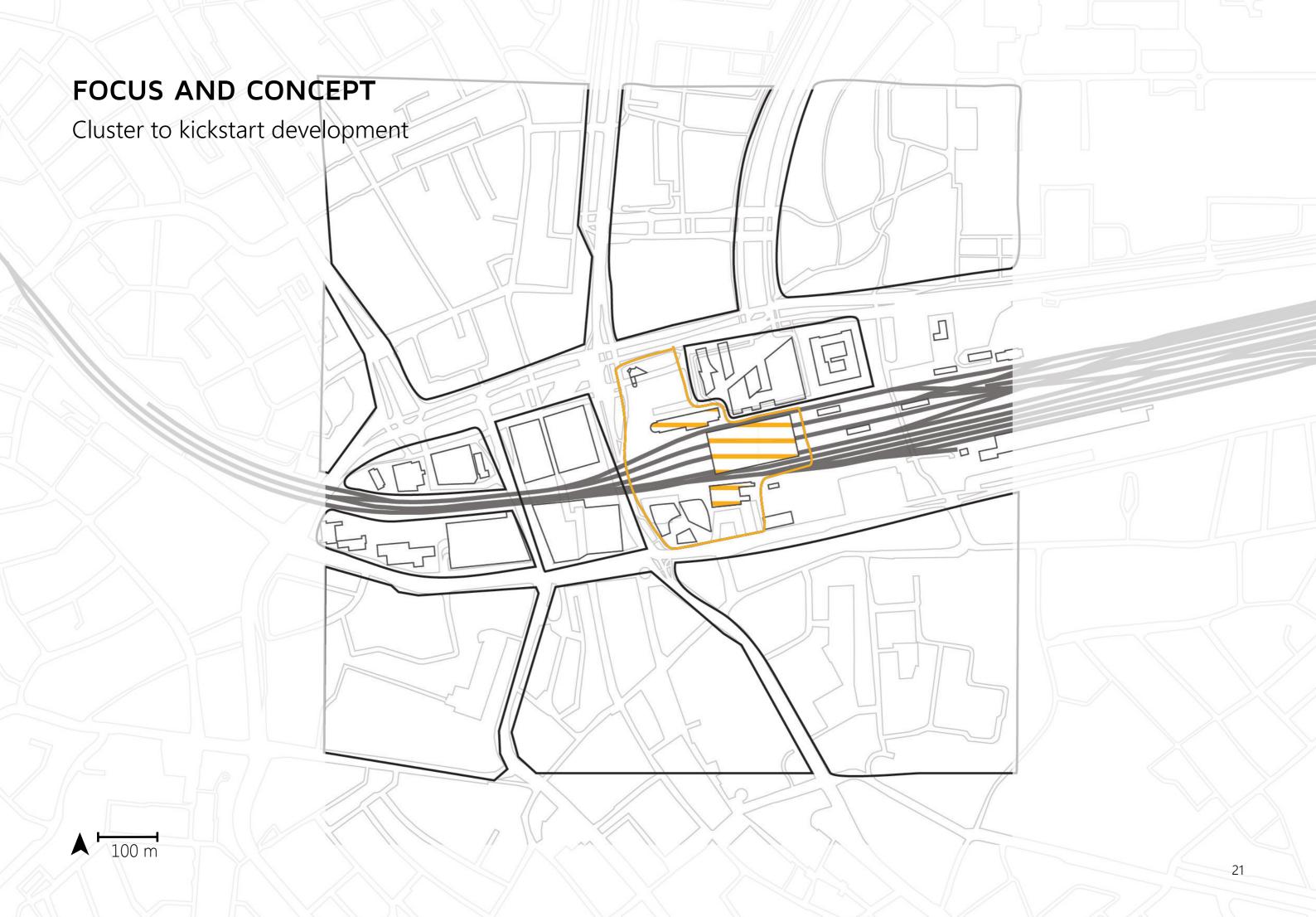


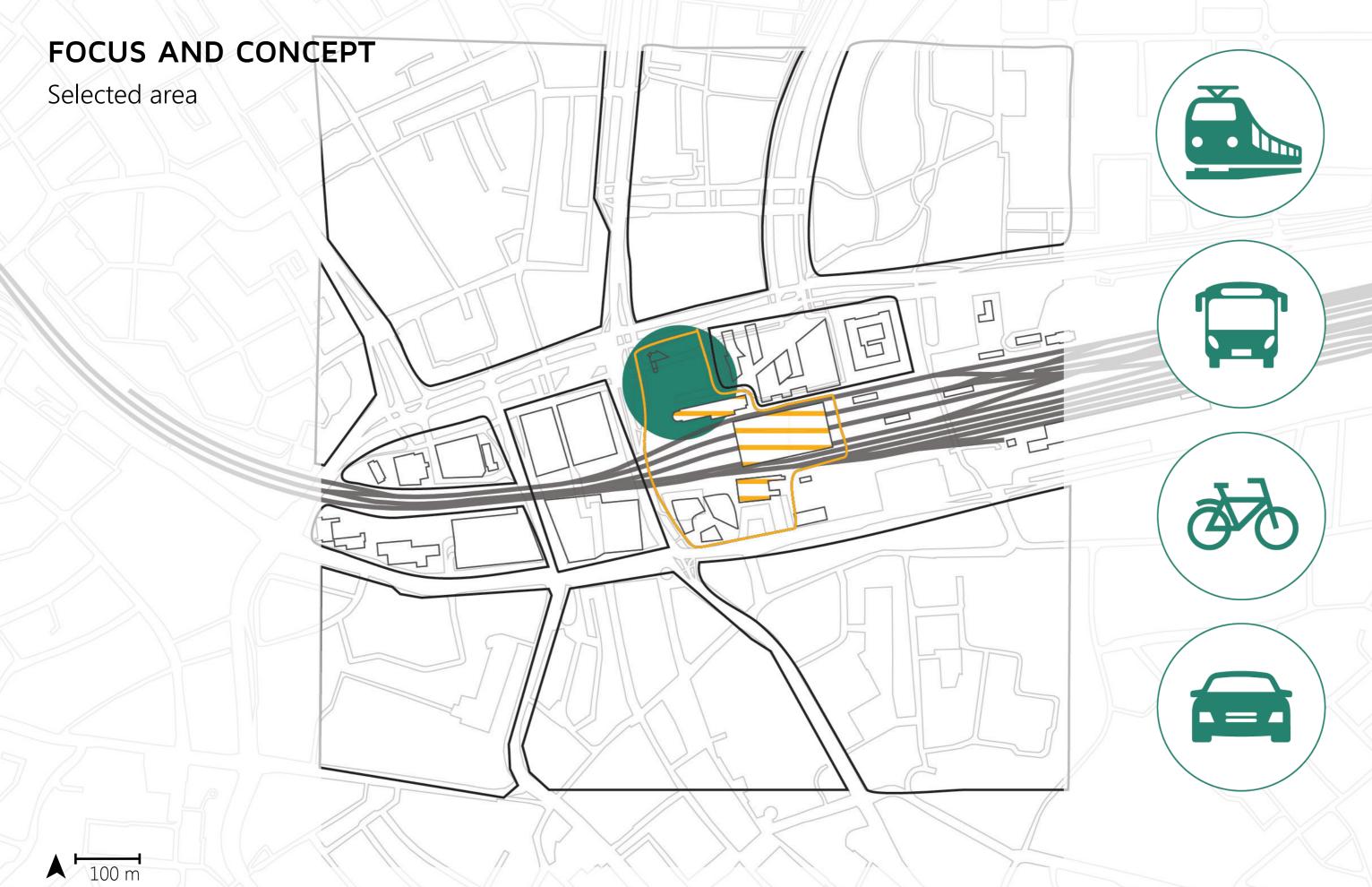
Efficient infrastructure system

FOCUS AND CONCEPT



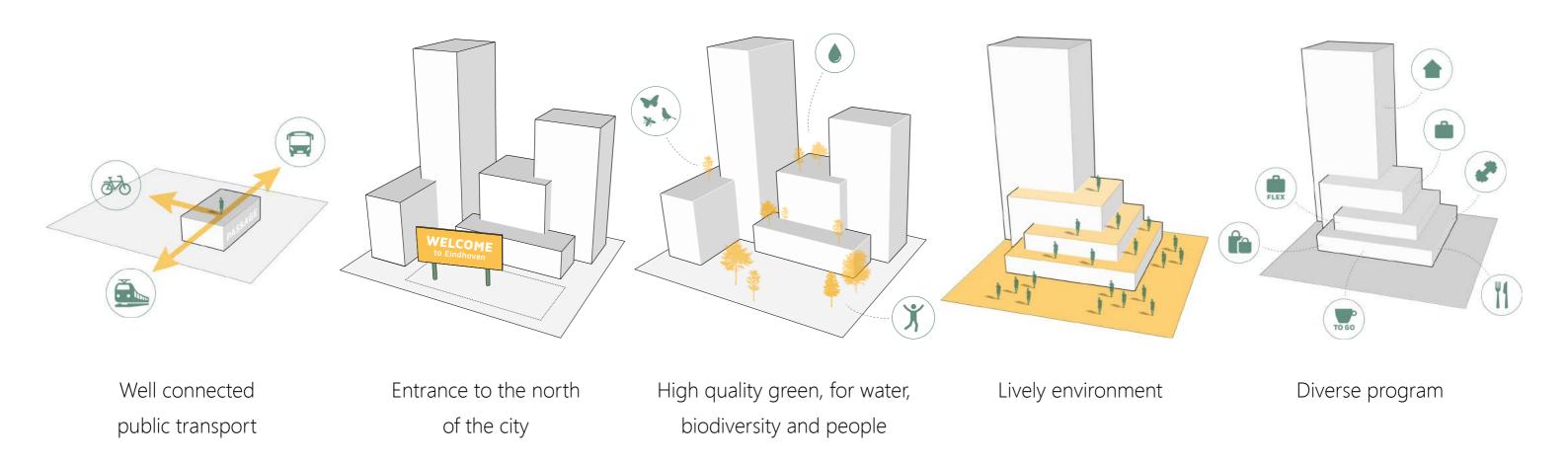






FOCUS AND CONCEPT

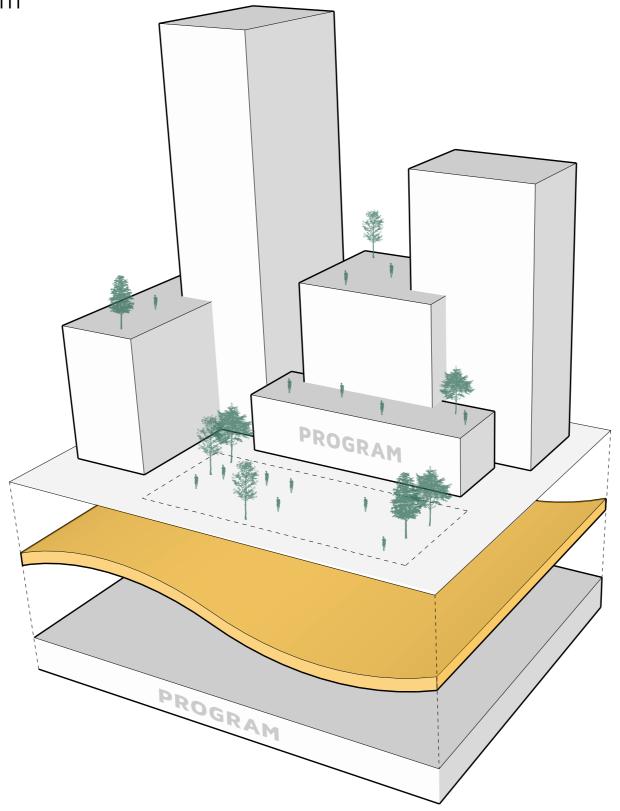
Design goals



FOCUS AND CONCEPT

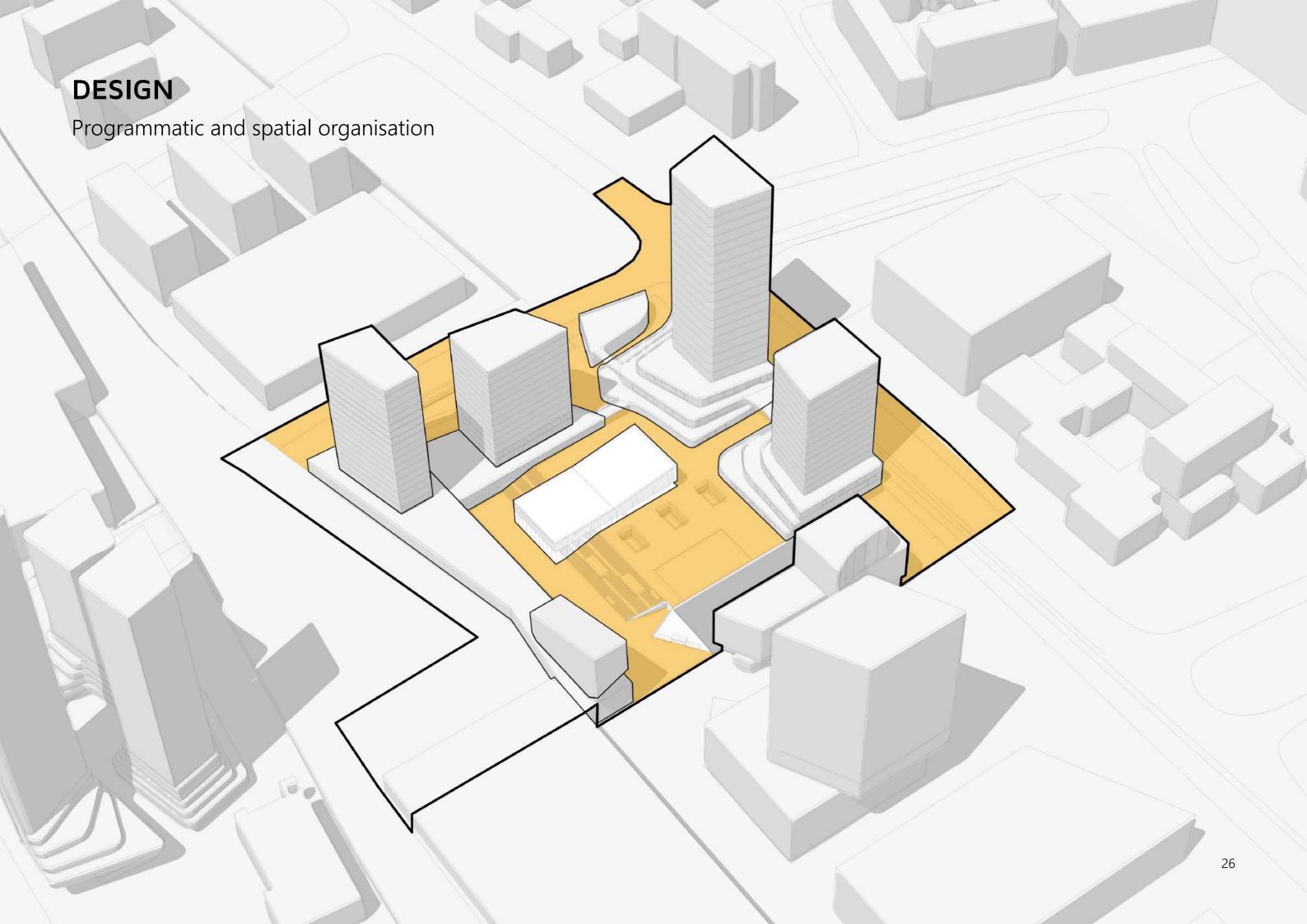
Design concept: layering of program

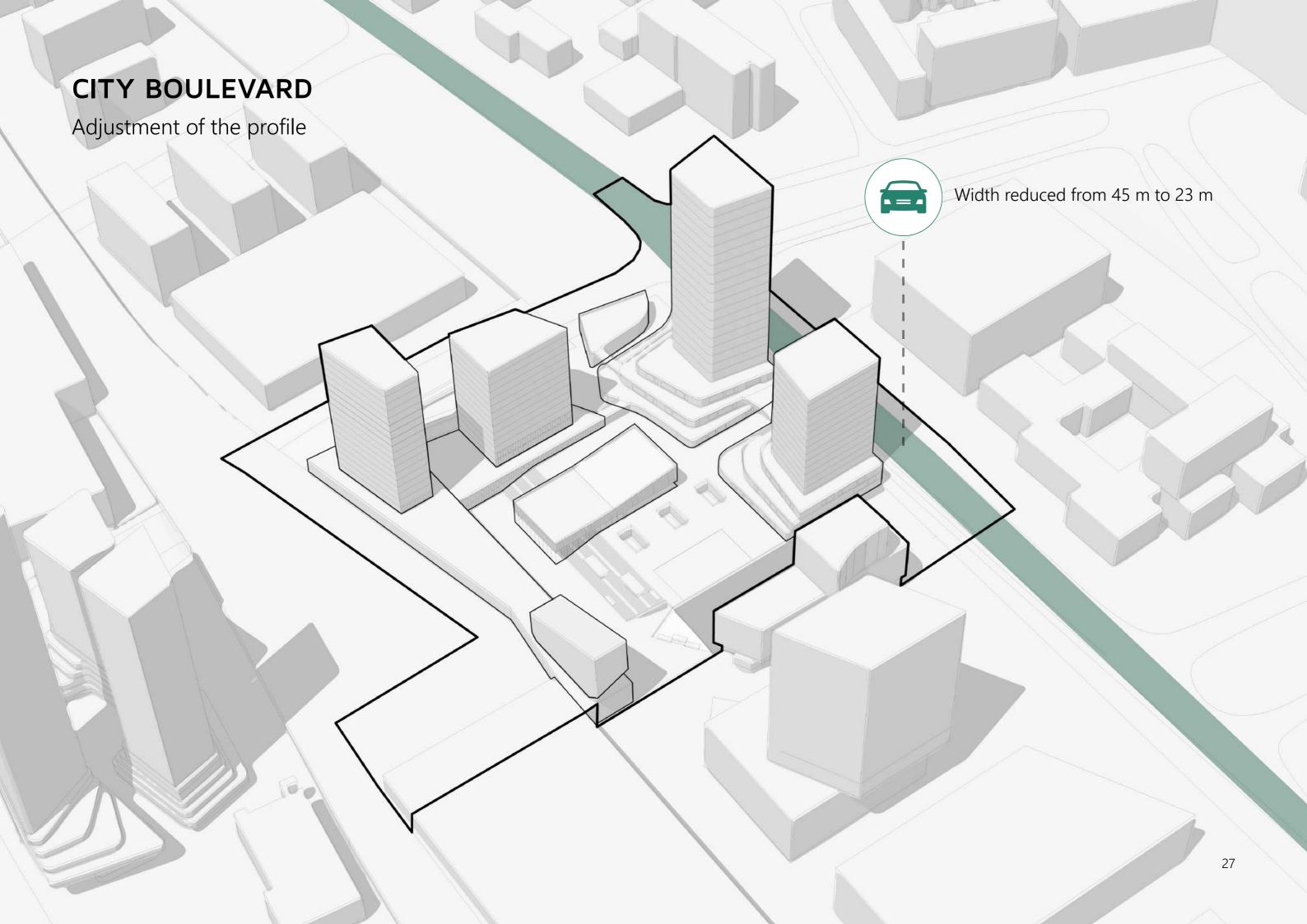
and public space



Adding a platform to optimize the use of space

DESIGN



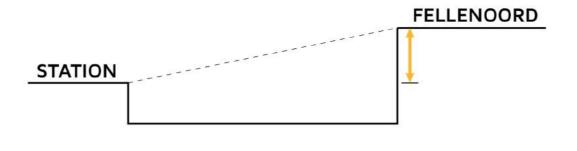


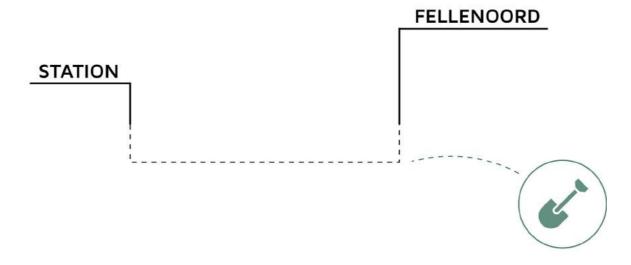


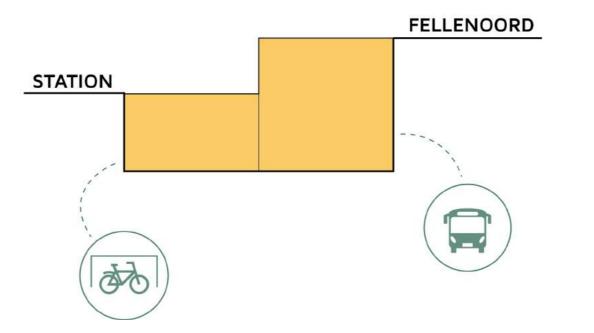
City boulevard New street profile

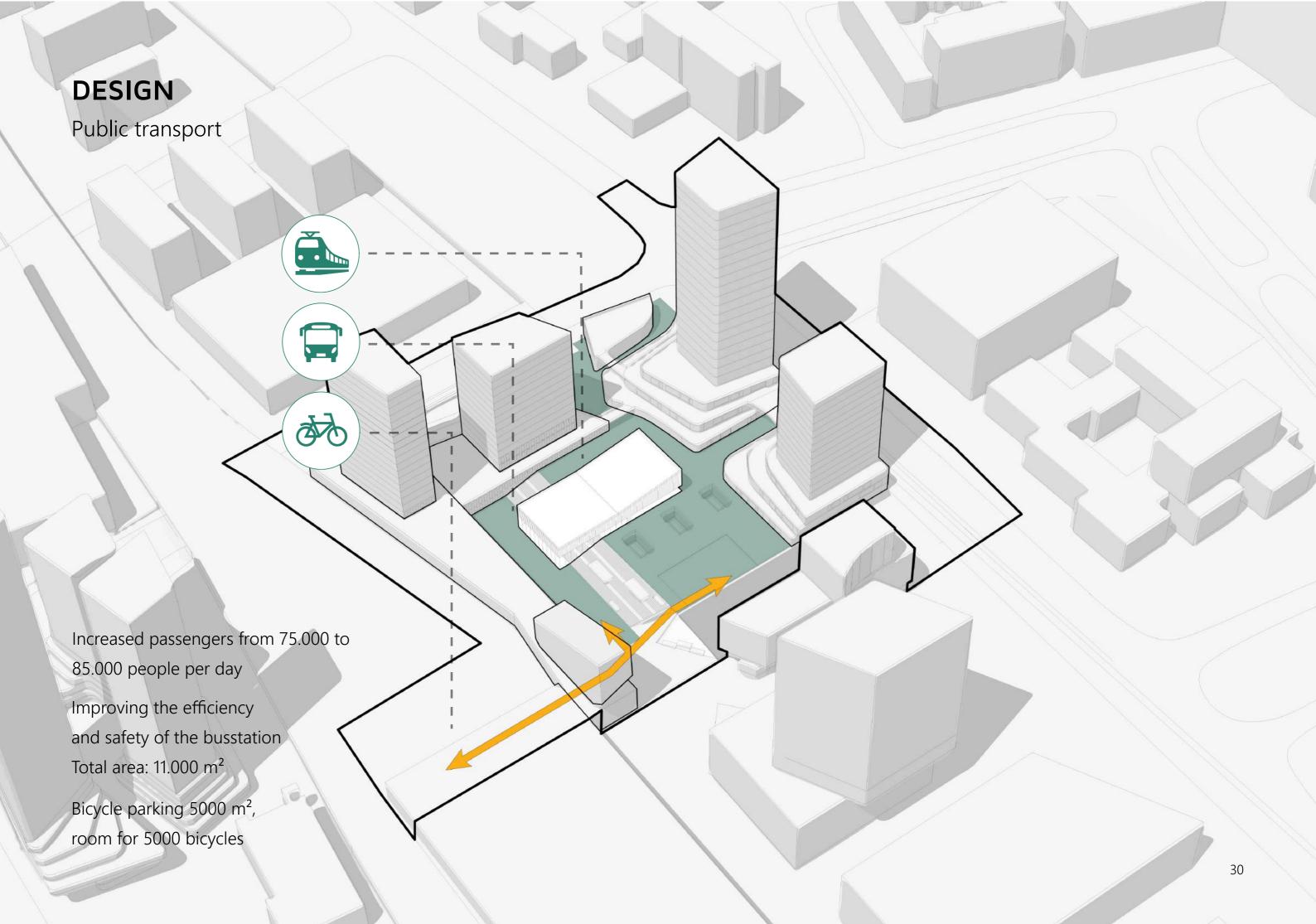
DESIGN

Taking advantage of the height differences



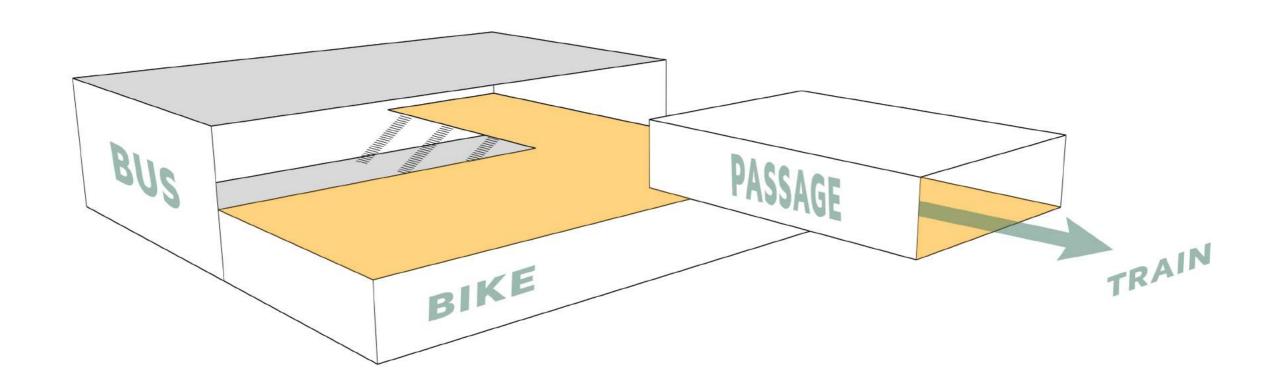


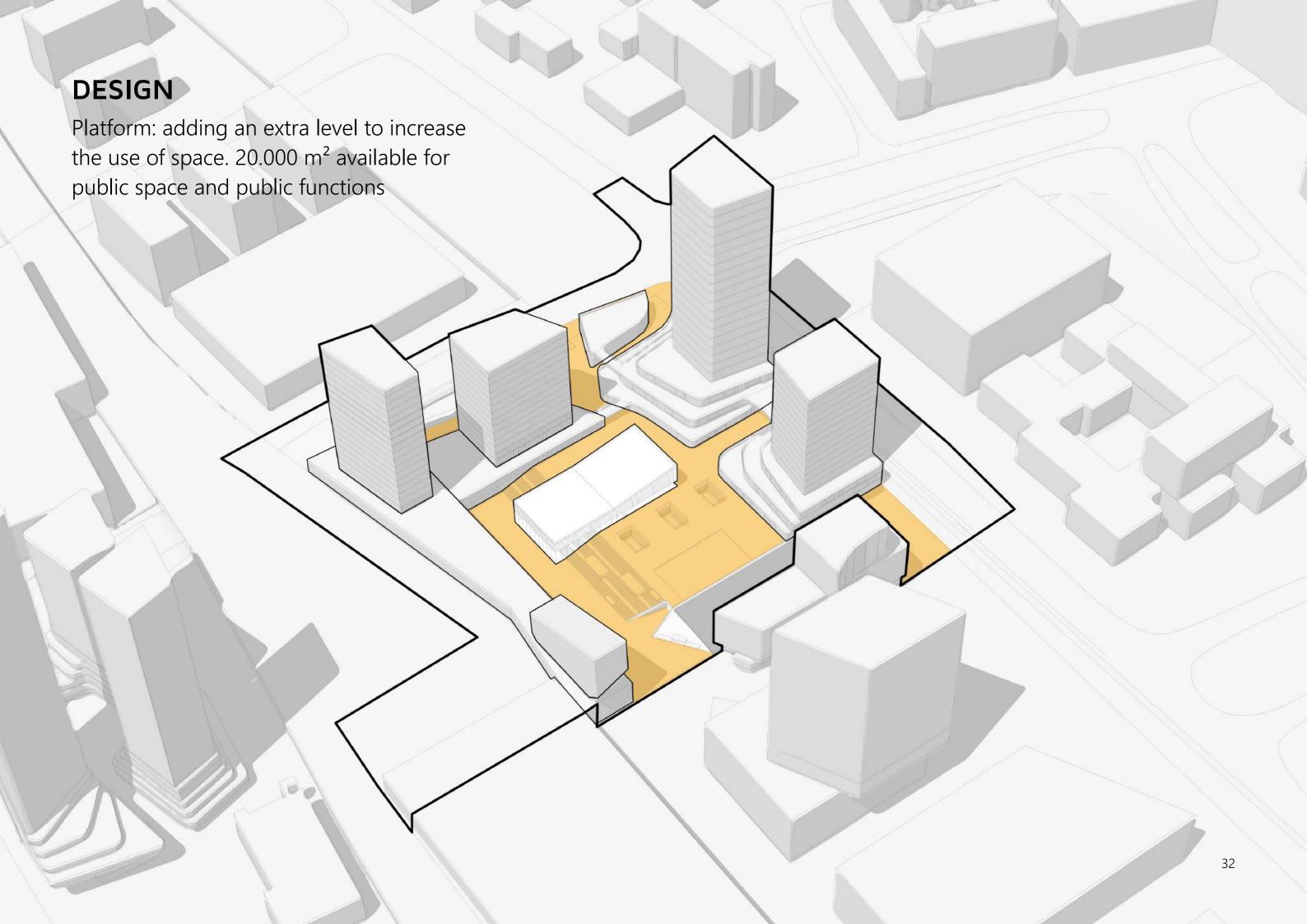


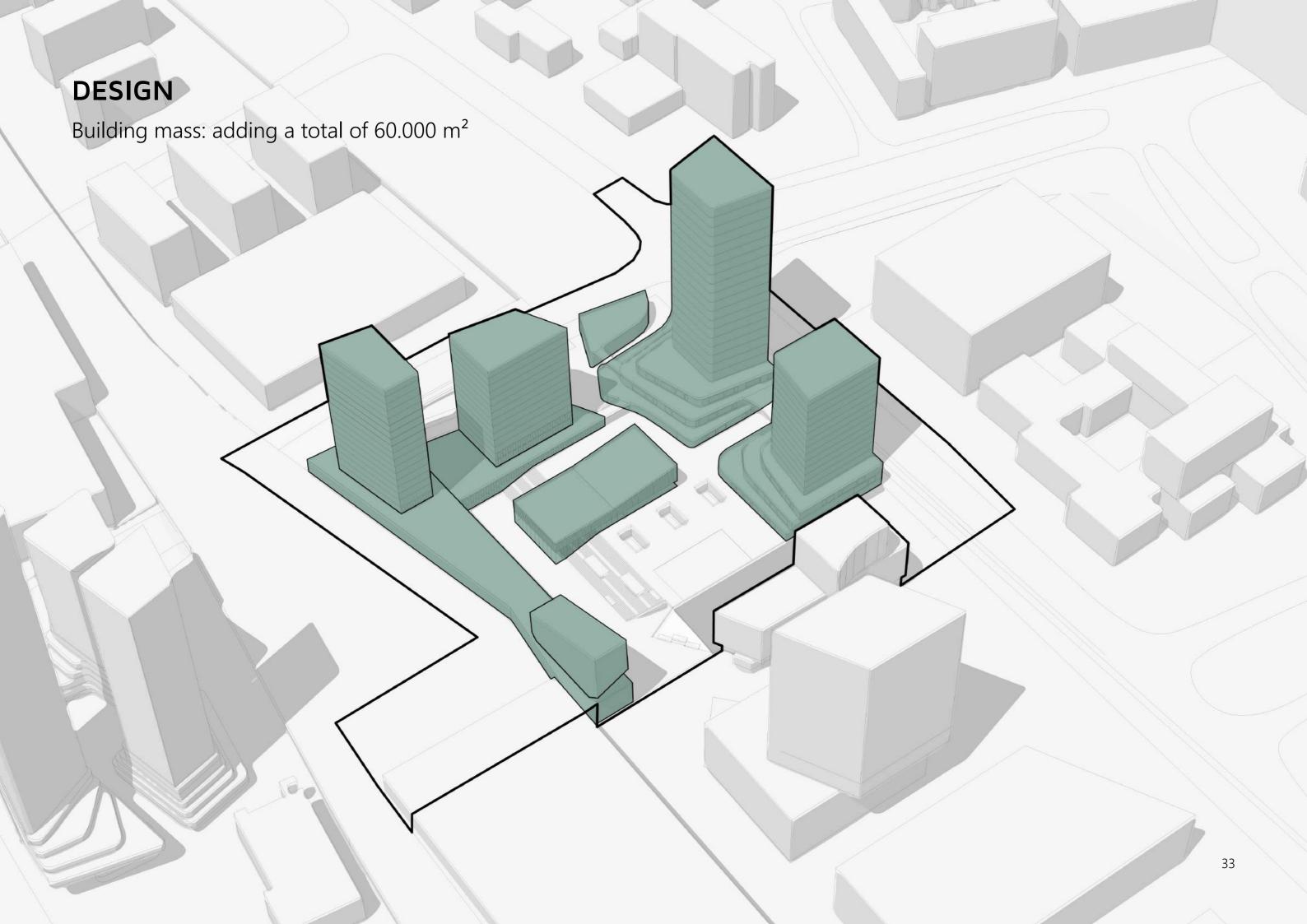


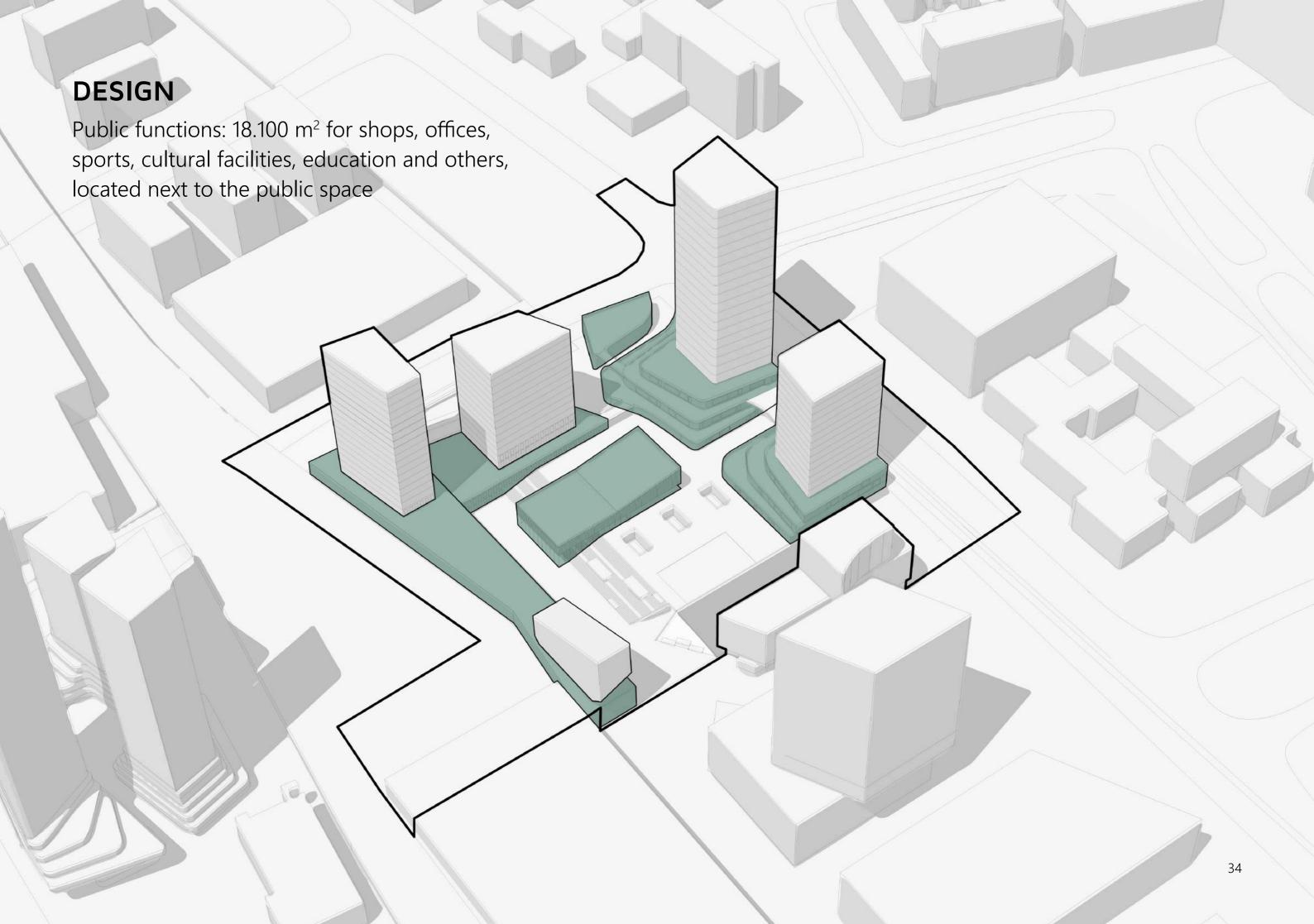
DESIGN

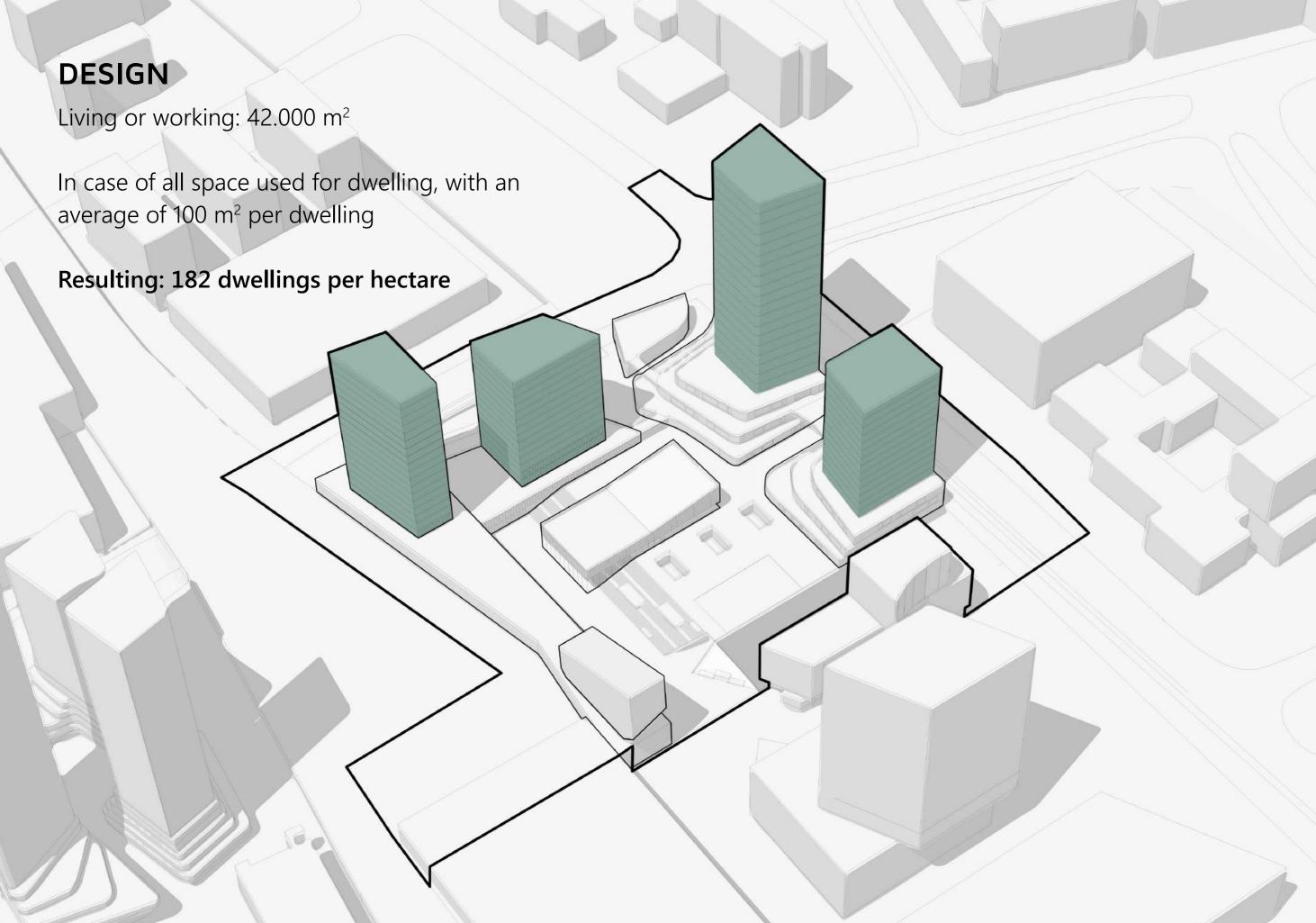
Public transport: highly efficient organisation to improve the safety and experience of the traveller





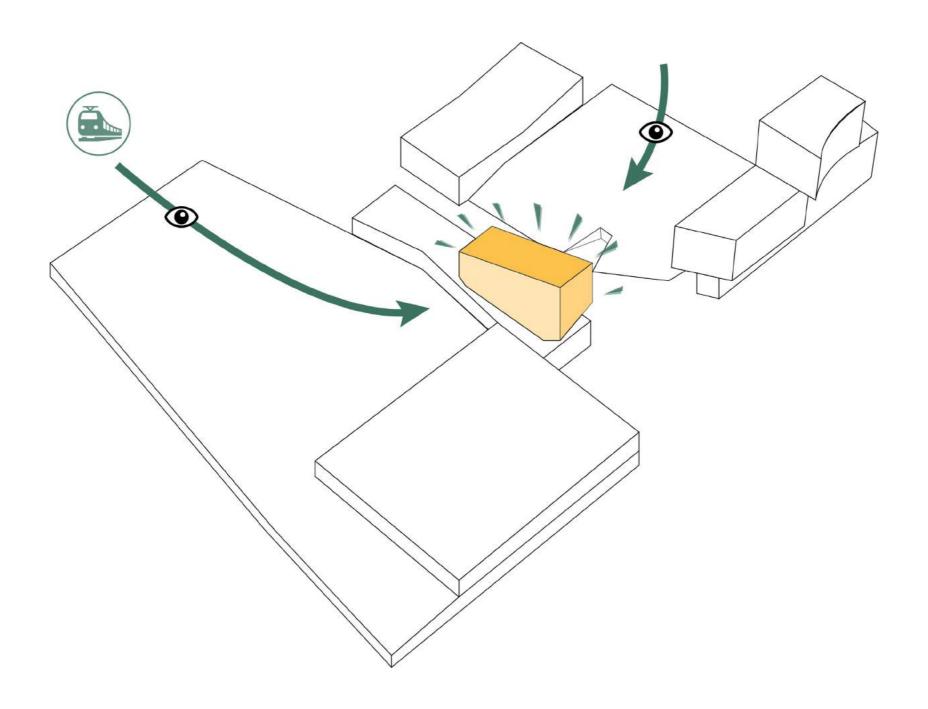


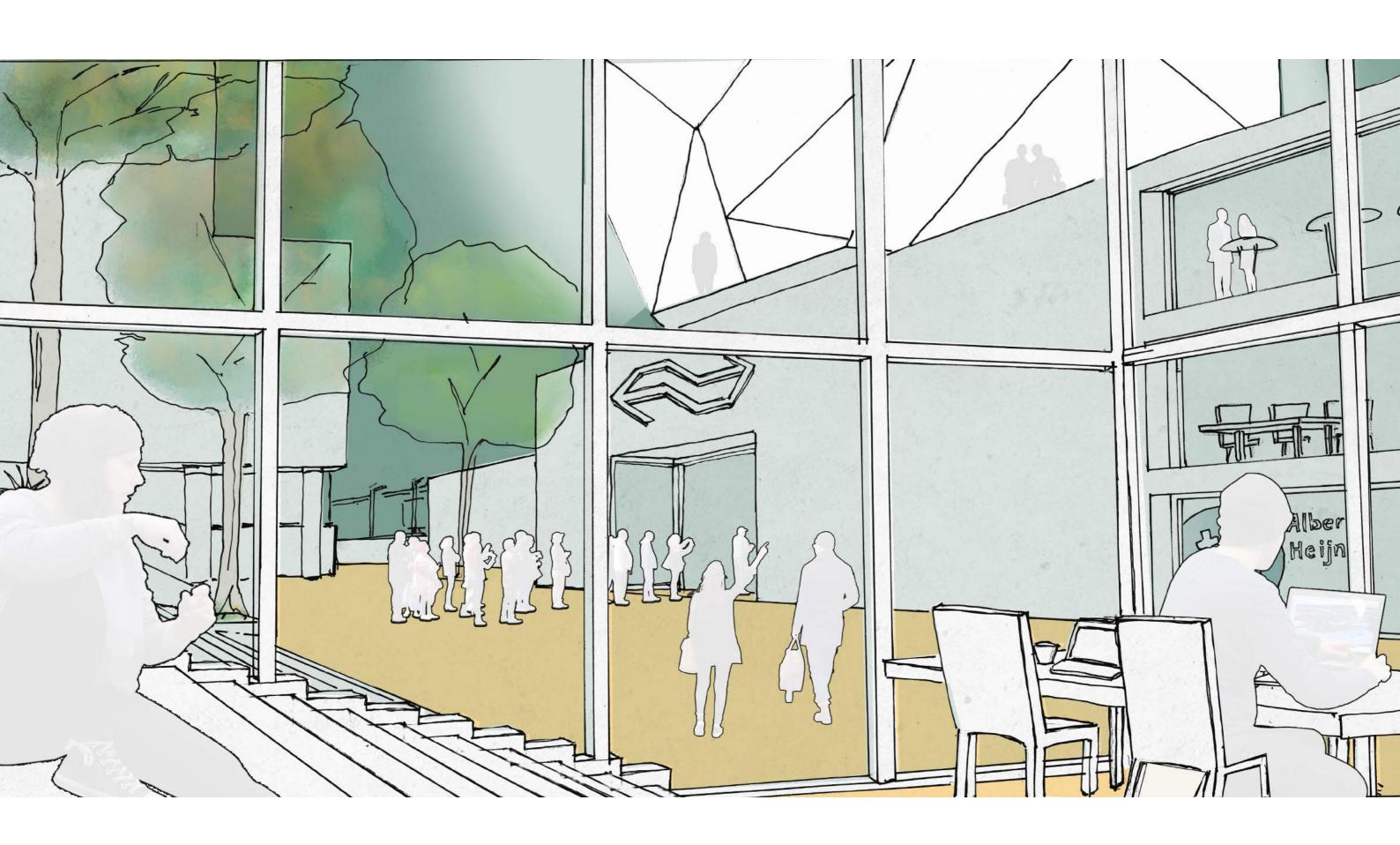




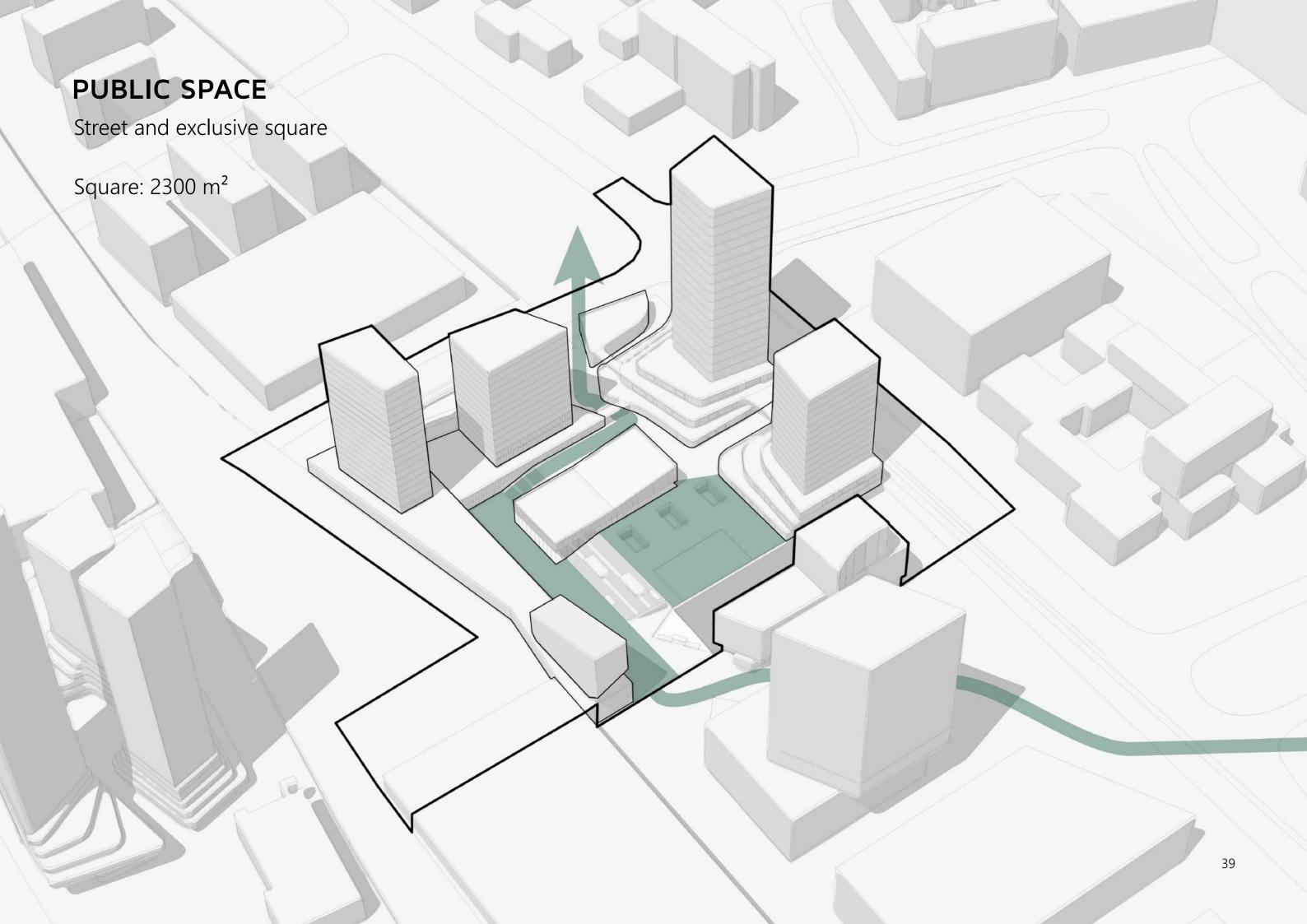


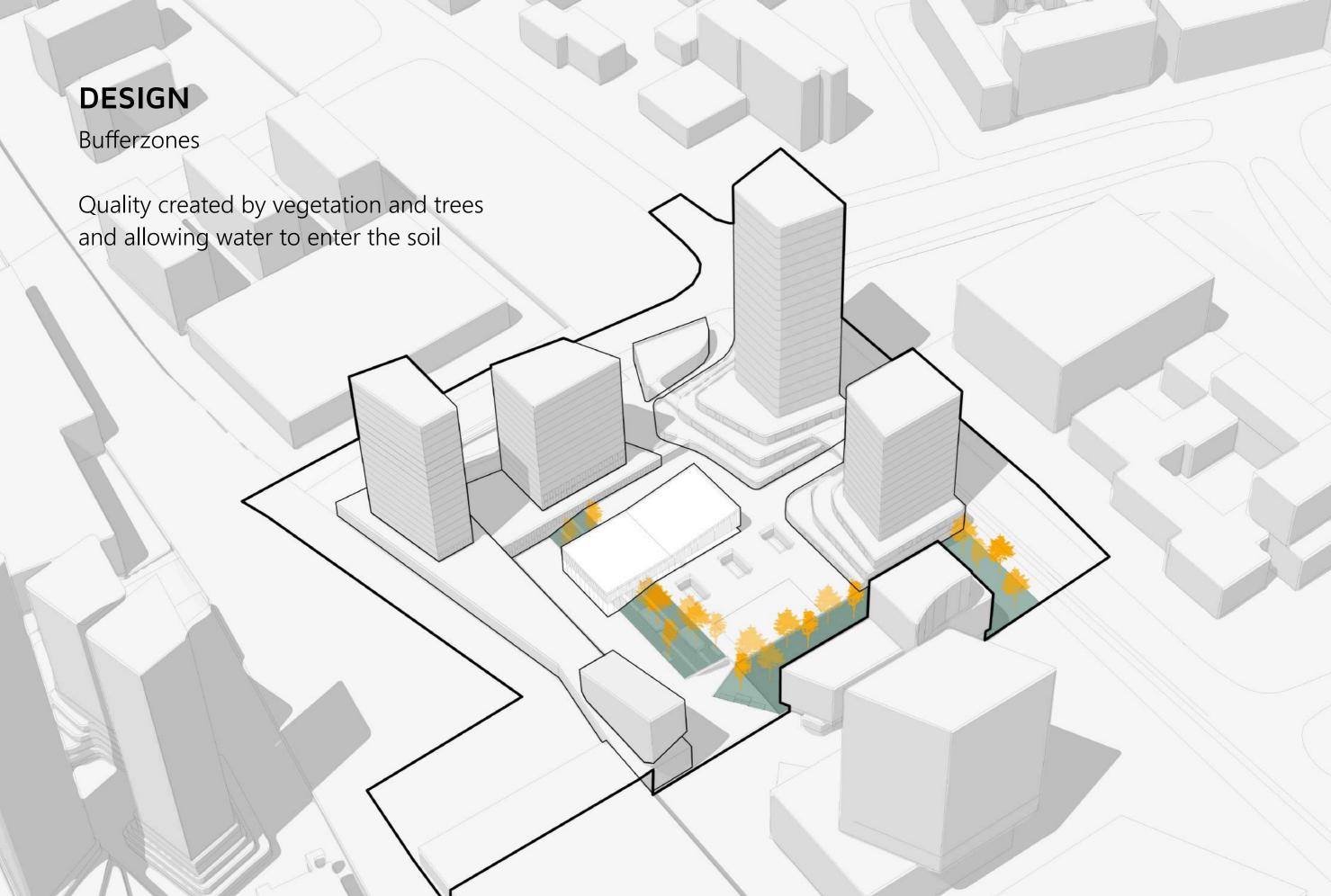
Landmark indicating the entrance of the station and showing the identity of Eindhoven



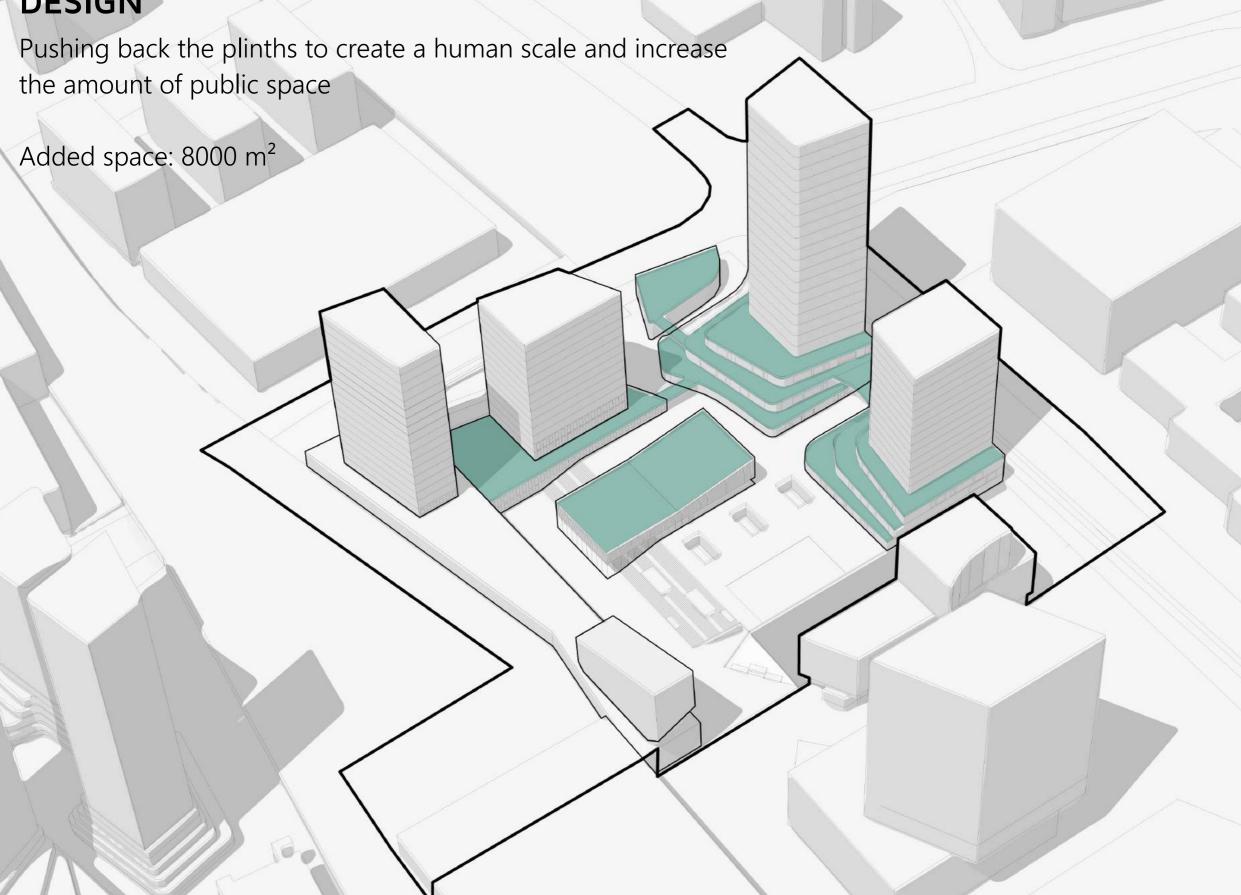


Station Entrance Showing the innovative identity of Eindhoven and serving as a landmark



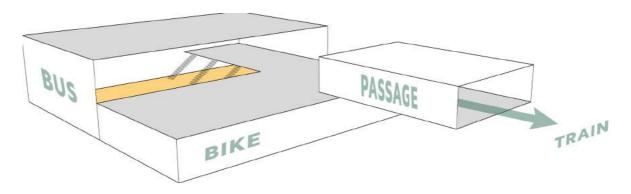




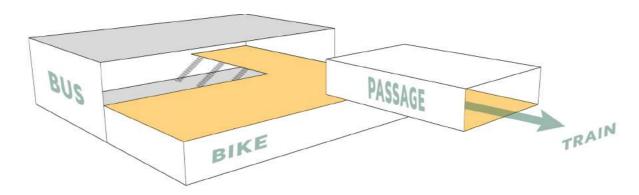




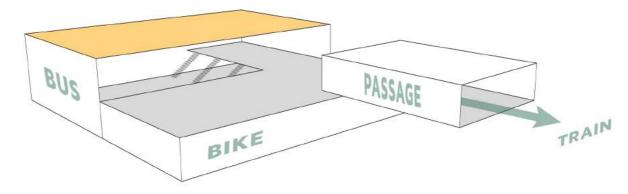
Spatial organization floorplan



Level: - 3.6 m

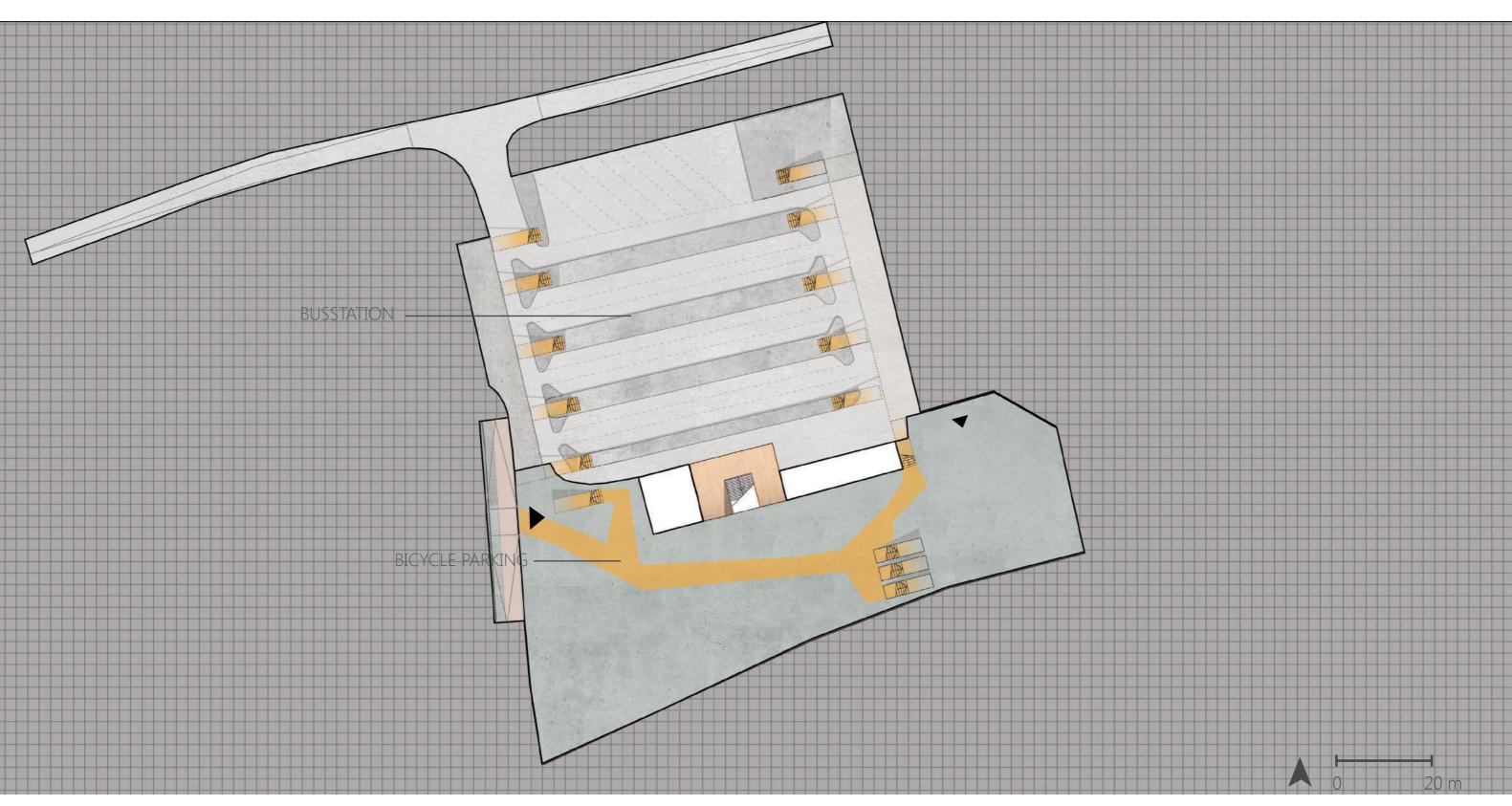


Level: 0 m

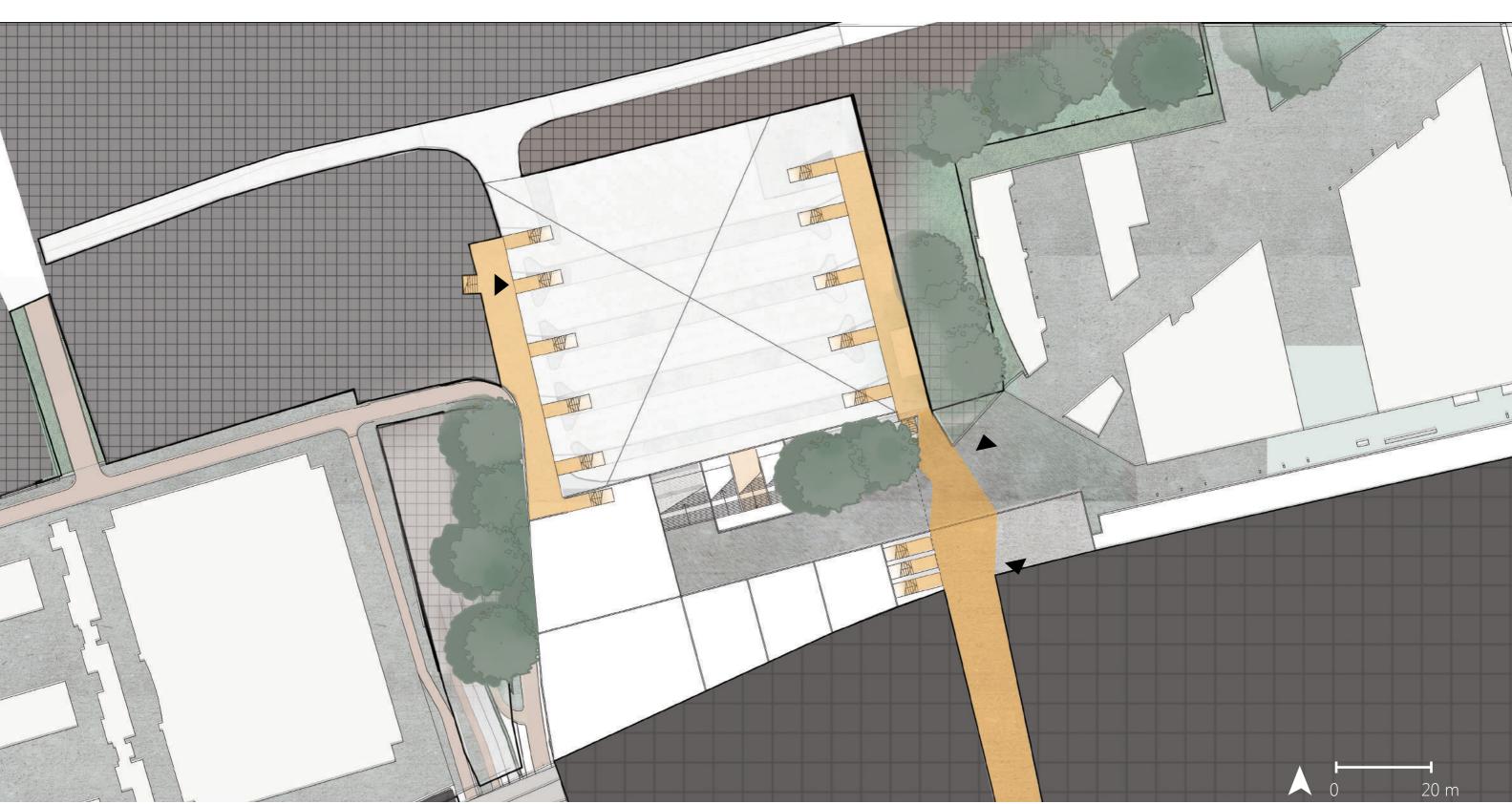


Level: + 3.6 m

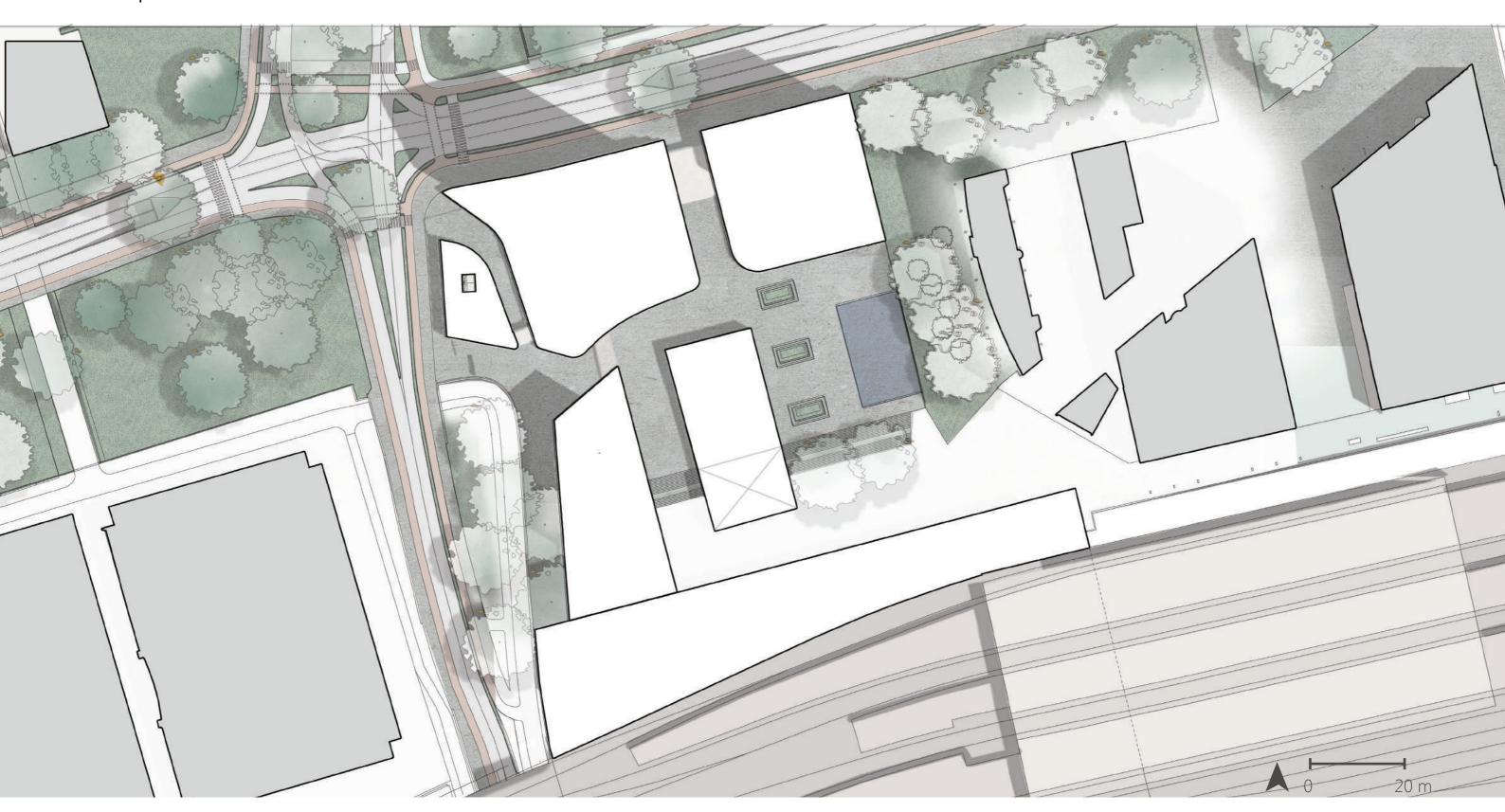
Floorplan: level - 3.6 m



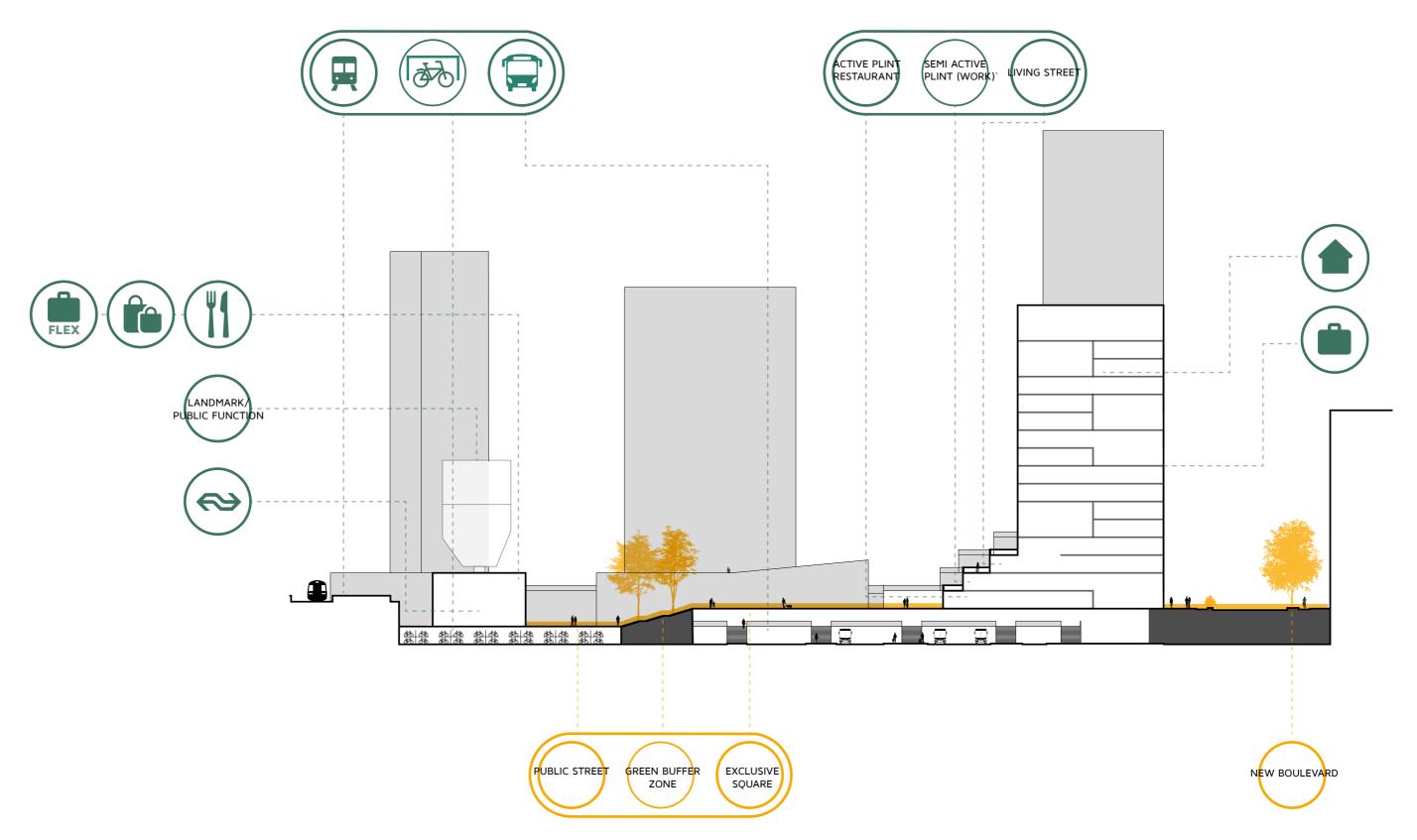
Floorplan: level 0 m

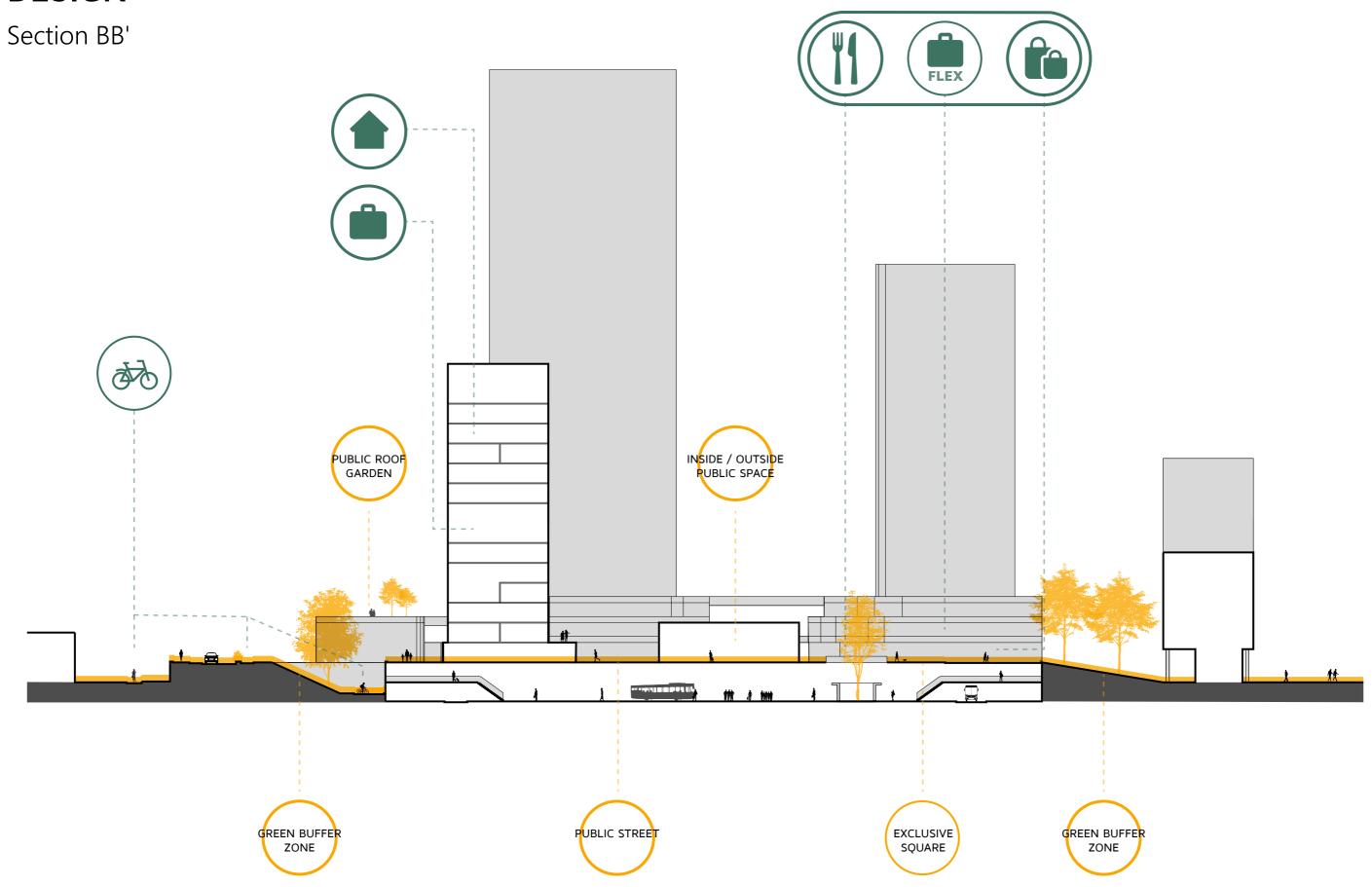


Floorplan: level + 3.6 m

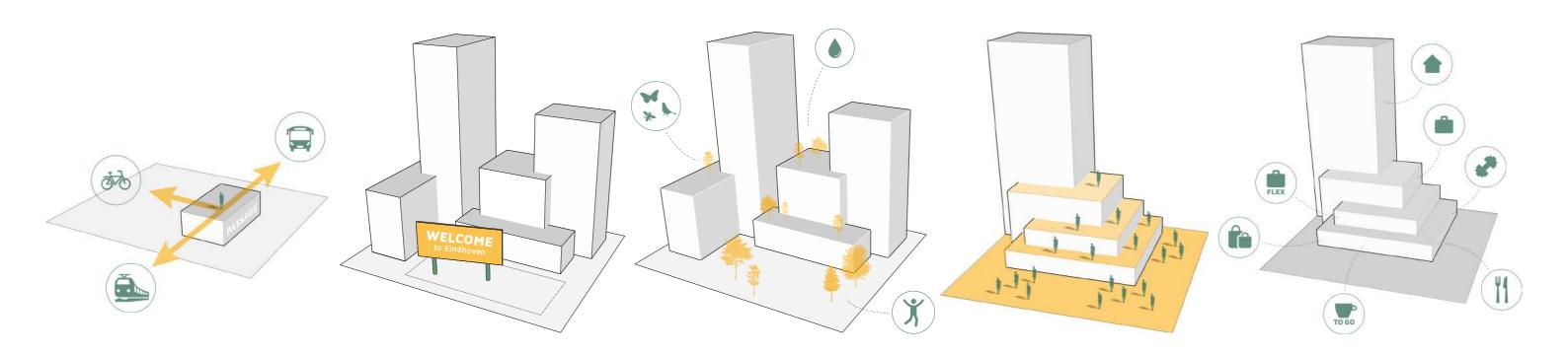


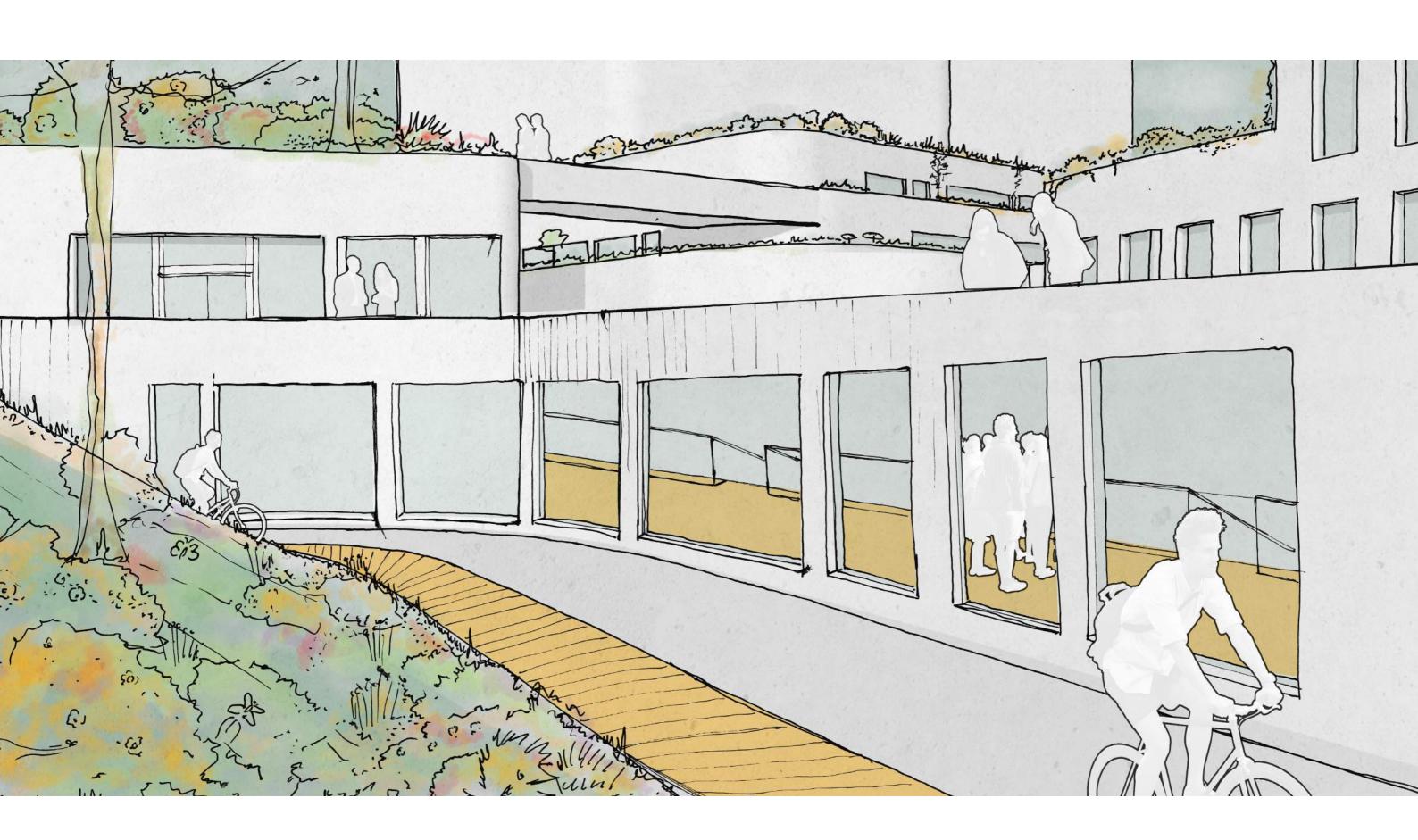
Section AA'

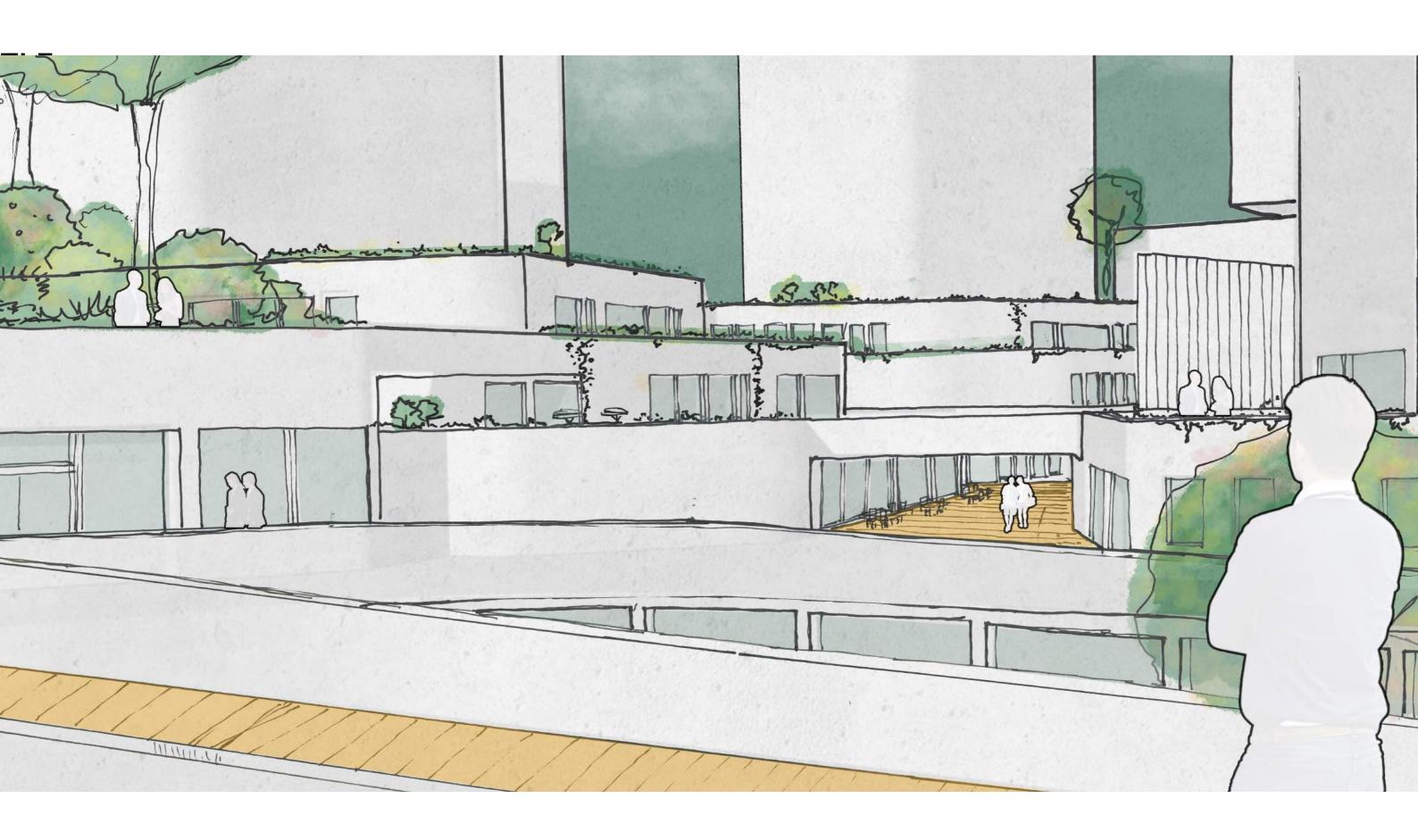




Result: by combining the goals the projects creates high quality public space while it improves the transport system.

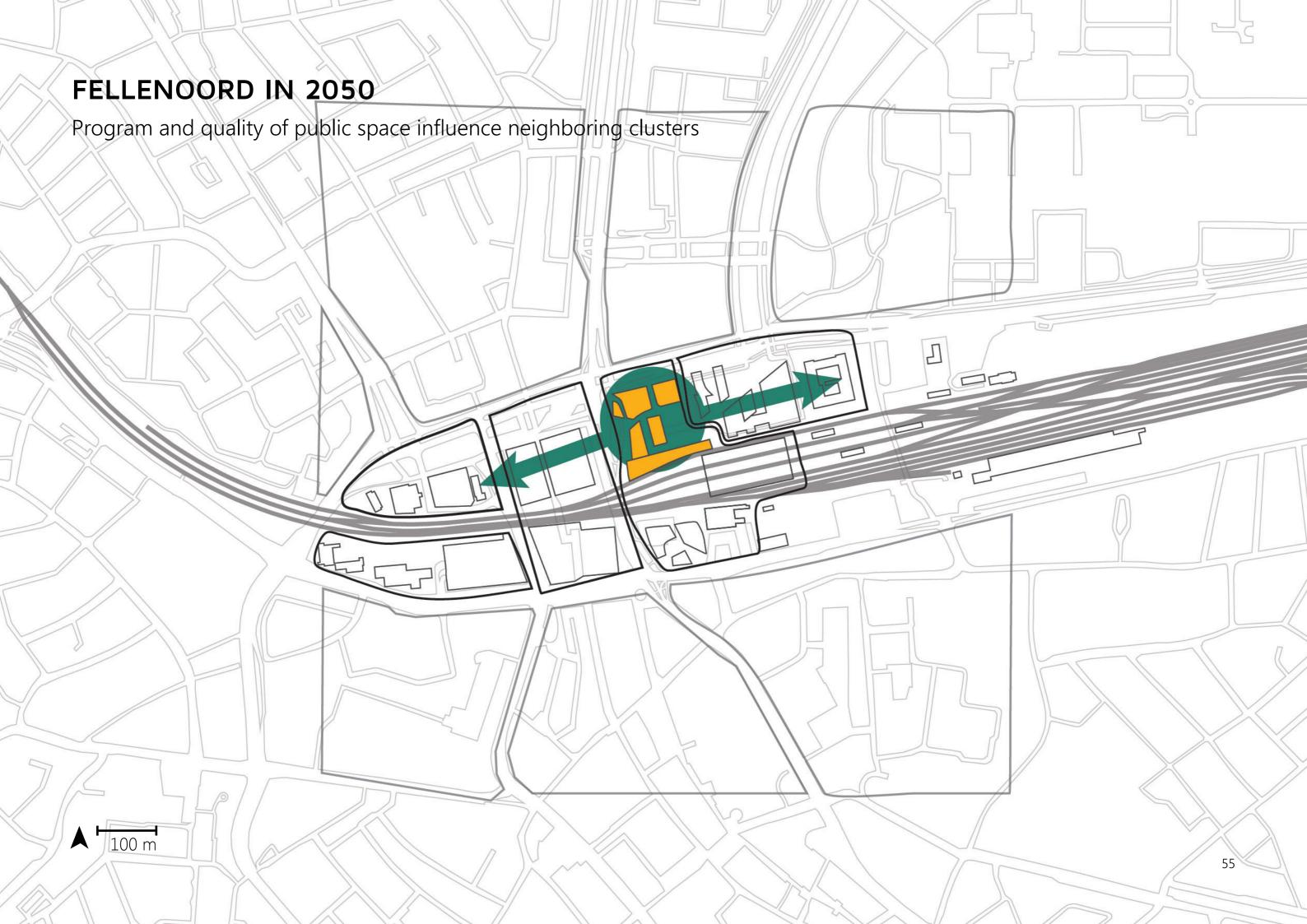


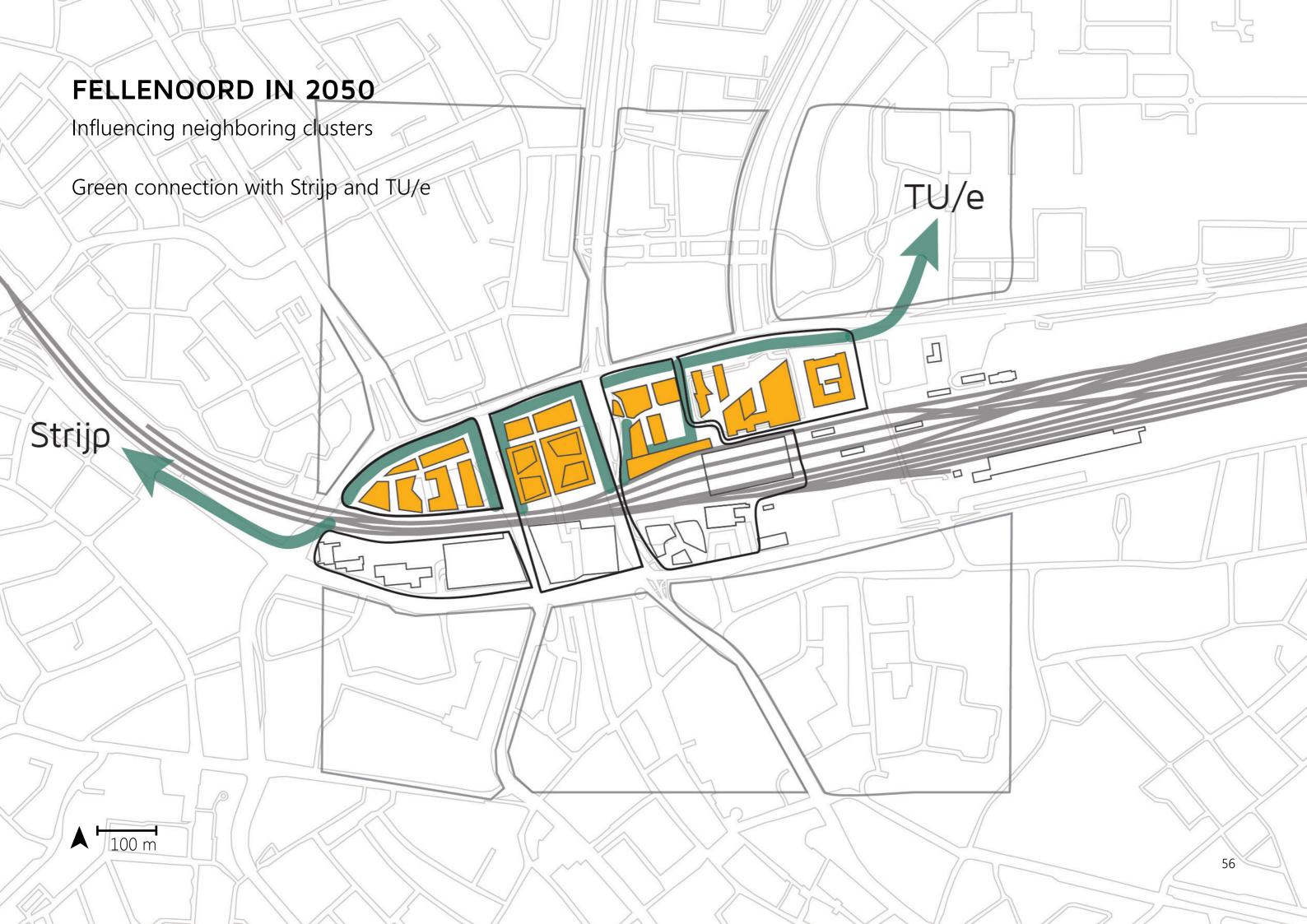






FELLENOORD IN 2050





FELLENOORD IN 2050

Future development improves the urban fabric

APPENDIX

APPENDIX

Physical model

