

ZOHO

CUB3D

Densify the city with sustainable living and working space, which benefit both the user and neighbouring community, with tailored modular and flexible units.

Design Goals

Creating Clusters

The residential functions will be **clustered** around their preferred communal node (for example, the study spaces). This way they are more **accessible** to those that use them the most, while also **separating** the users with different lifestyles.

Separating public/private

A privacy gradient ensures **separation** between the public and private areas inside the building, while in between communal areas serve as **transition**. This way the residents can enjoy a peaceful and quiet living space, without them having to worry about **noise** or compromised **privacy**.

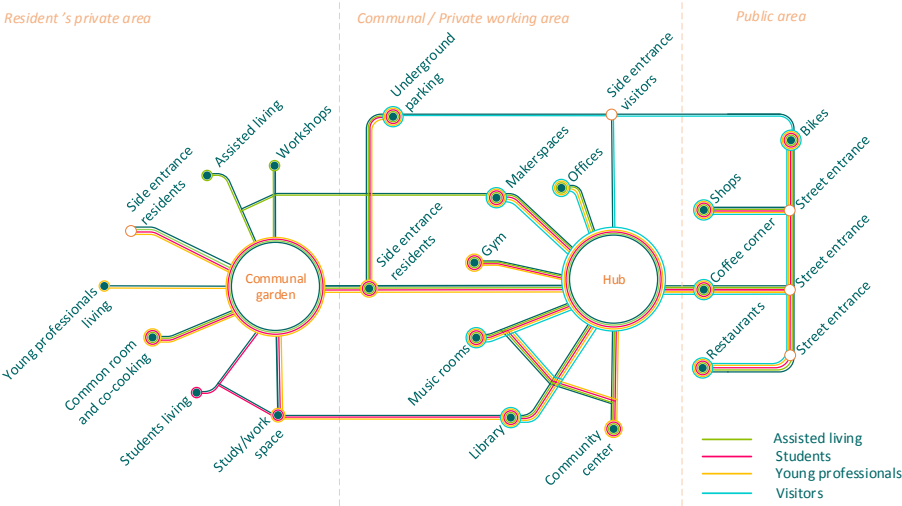
Outdoor Garden

All residential units are **connected** to the central communal garden. This way, they all have access to a pleasant open and green area to relax in. Furthermore, commuting through it **stimulates encounters** between neighbours.

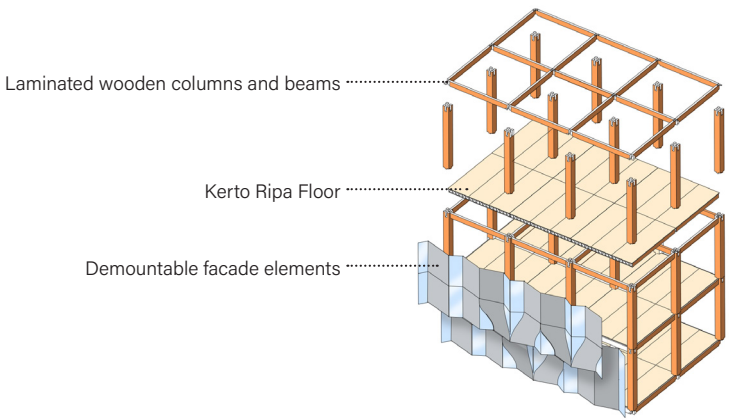
Activating the street

The Vijverhofstraat is 'activated' with **opportunities** for people to dine and shop there, this aligns with the city's plan to turn the old metro line into a 'Highline'. This contributes to the amount of **visitors** and significance of the area.

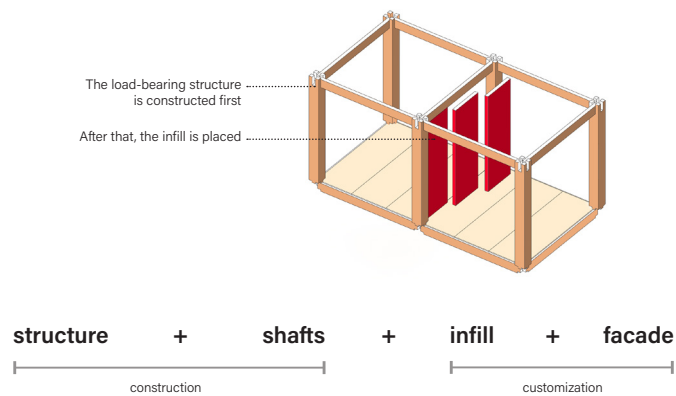
Metro diagram



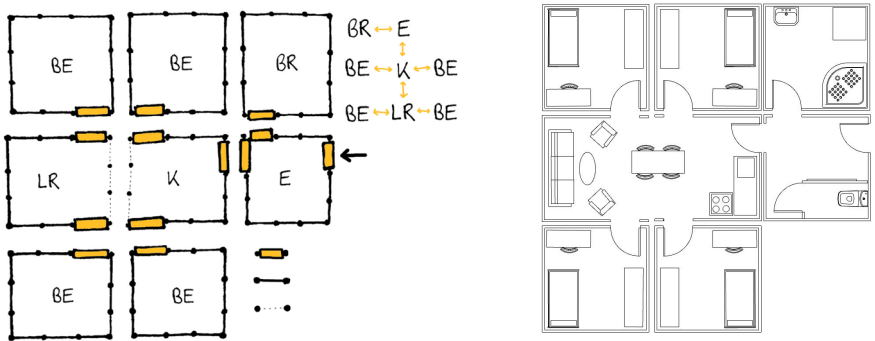
Construction



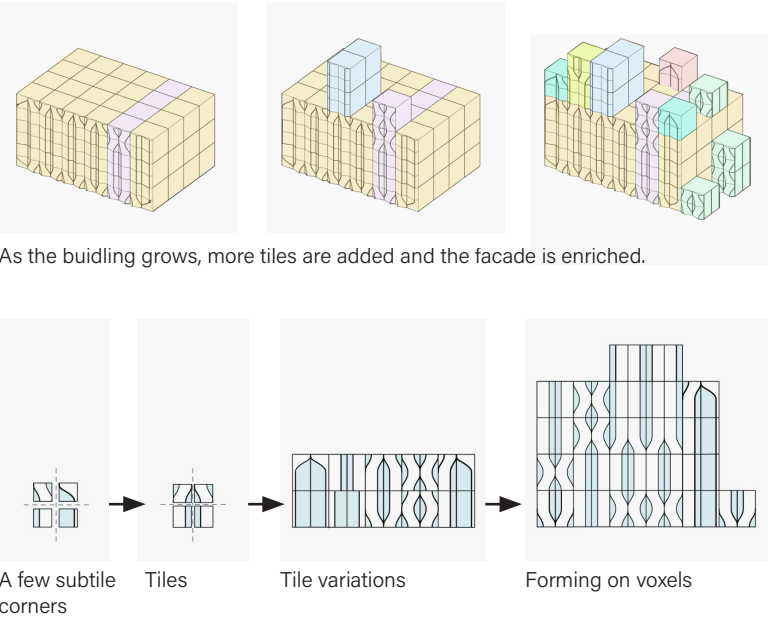
Construction and Infill



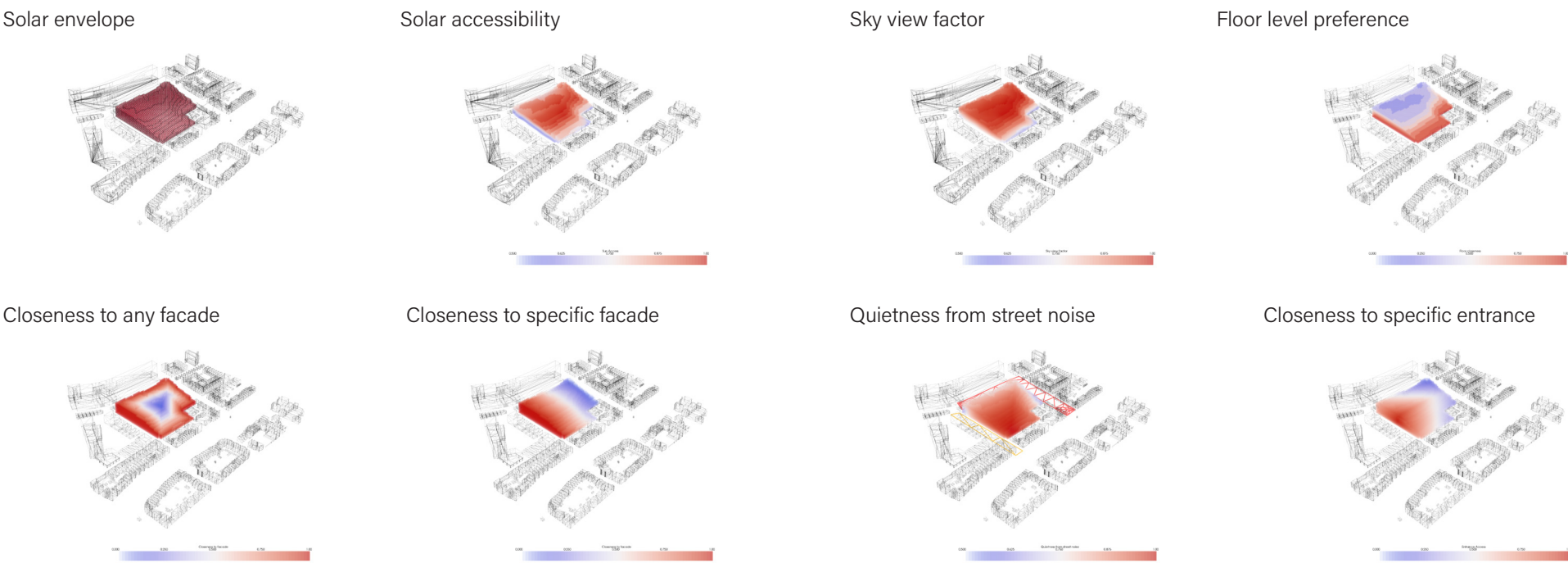
Modular tiling



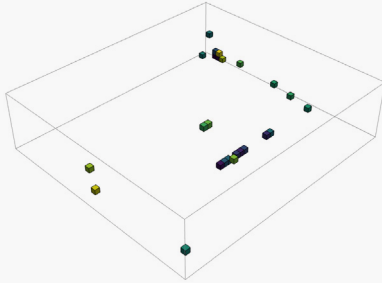
Forming



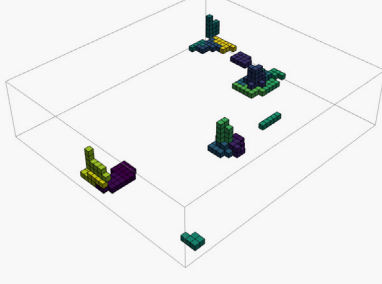
Input lattices for growth algorithm



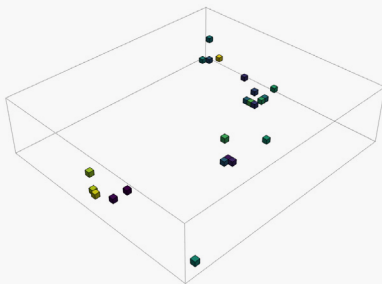
Initial agent location



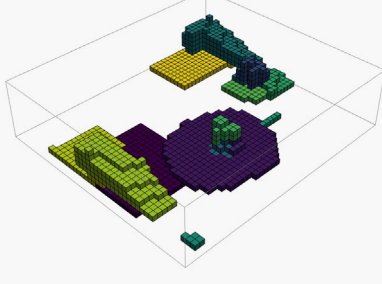
Growth



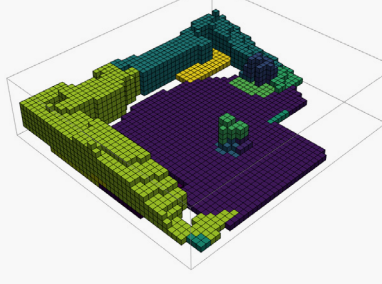
Agents after 'walking'



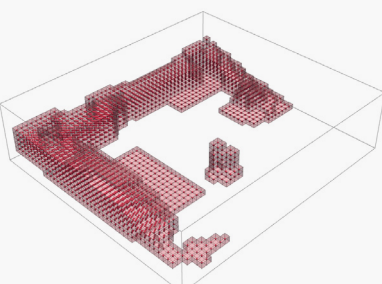
Growth



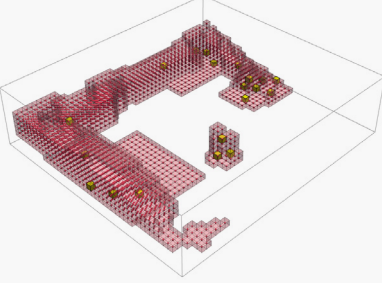
Final growth



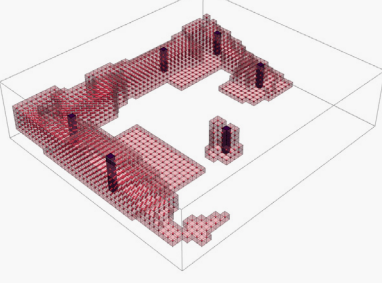
Selecting voxels to evaluate



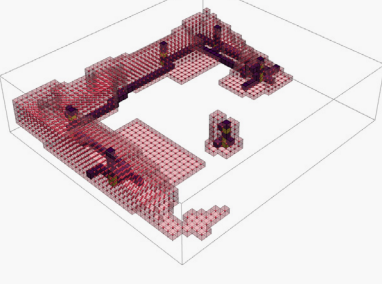
Finding mean voxels



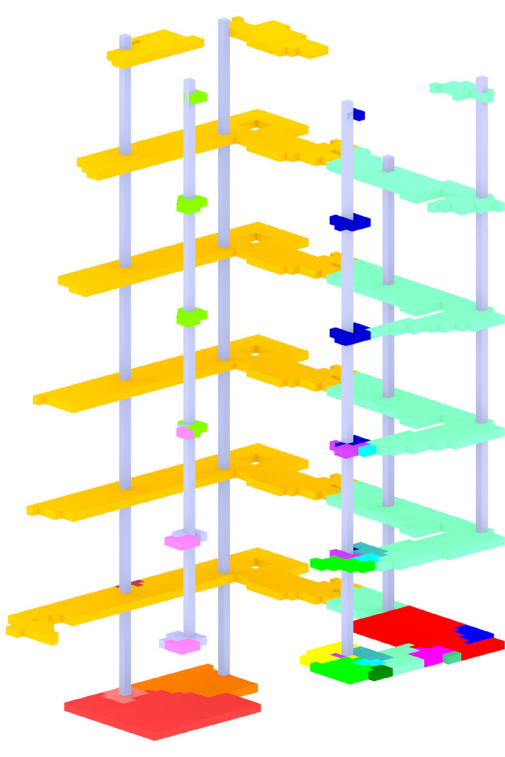
Mean voxels again



Corridor growth



Axo and Floor plan



Facade impression



Garden impression

