



The open system neighborhood

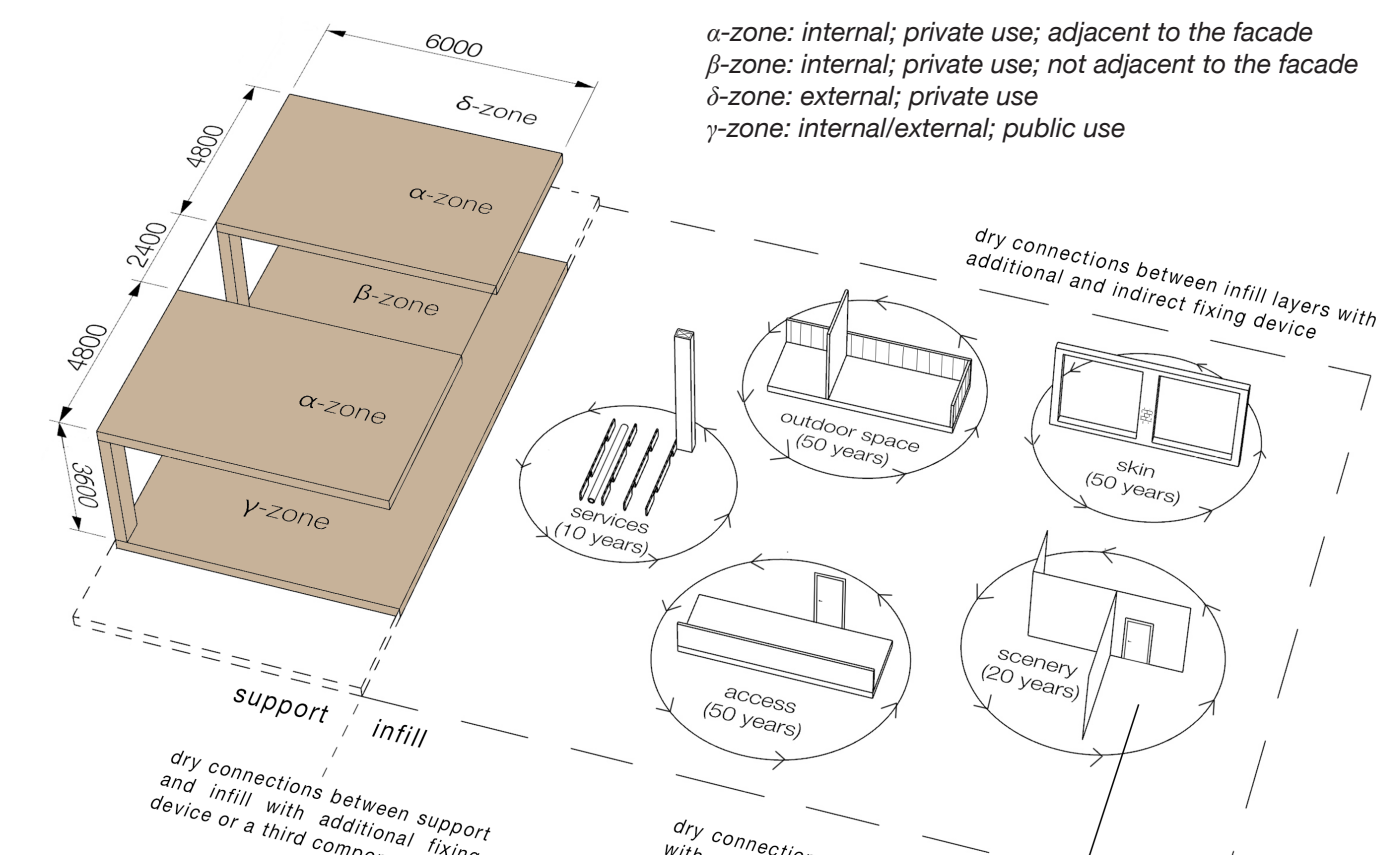
A flexible and circular neighborhood in Amsterdam Sloterdijk

The project proposes a futureproof neighborhood of an open building system in order to deal with the housing shortage, a circular economy and changing needs in society. The dense neighborhood in Amsterdam Sloterdijk makes a connection to the Brettenzone and is completely built from a smart support system. The zoning of the support makes it easy to make adaptations in the future. A toolbox of demountable infill systems and components is designed while taking into account the physical independency of building layers with a different lifespans. The toolbox will be used by different architects to design a building block in collaboration with the users who can create their own home with pre-designed assemblies and start a sharing community based on shared values and interests.

The method offers many possibilities on different scale levels. (1) Flexibility and circular building infills on a large scale while accommodating unity and diversity in the neighborhood. (2) A collage of different building blocks with different people, values, activities and communities. (3) Freedom on the individual level to make your own home with pre-designed assemblies and unlimited possibilities in the interior layout.

Jan Vader

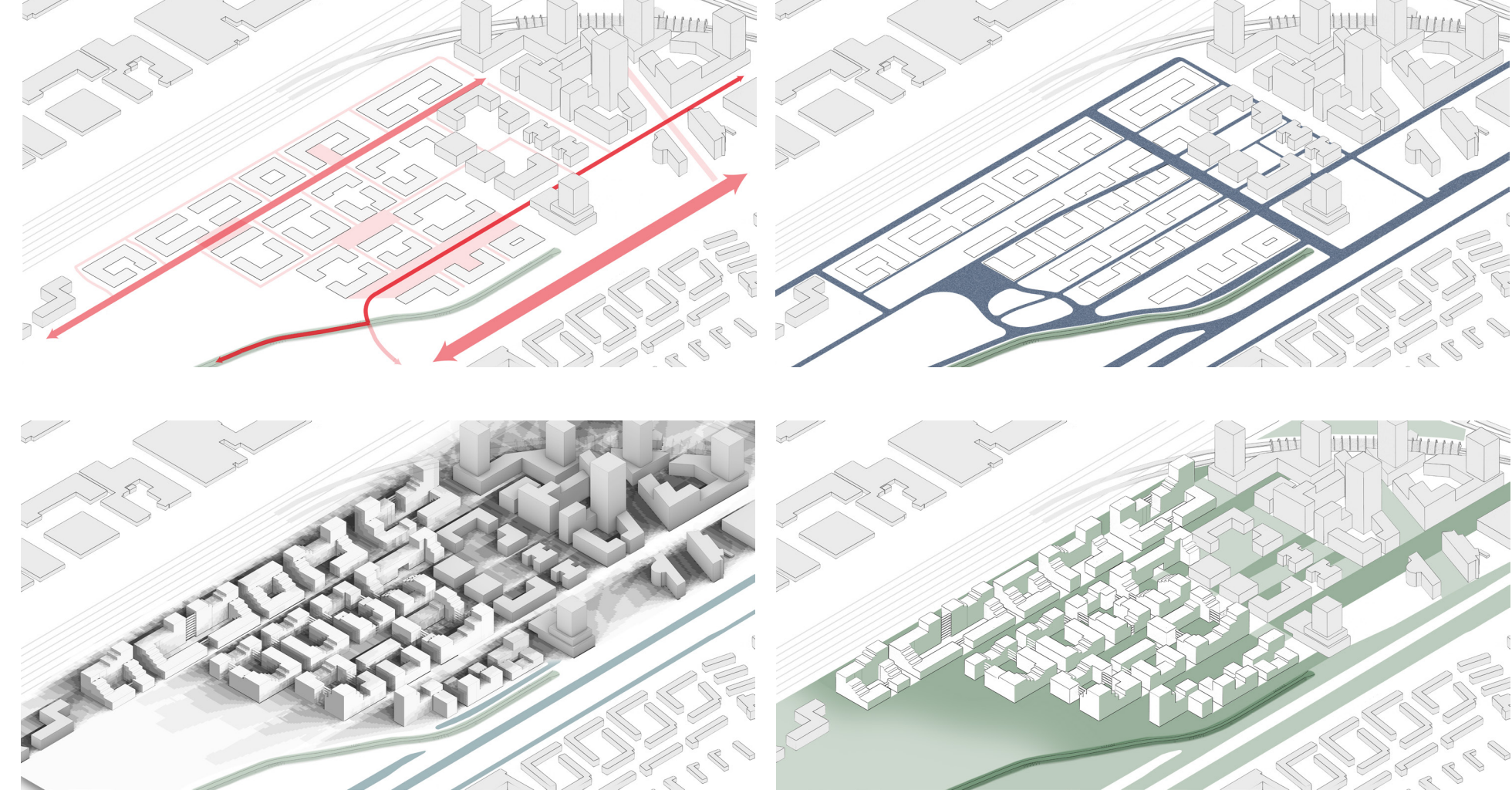
The project area is situated at the west side of Sloterdijk. The area is transforming from a business area to a metropolitan district with a balance between living and work. The center of Sloterdijk is the station which is one of the largest public transportation hubs in the Netherlands.



The diagram shows the zoning and dimensions of the generic support and the (connection) principles of the circular and adaptable infill layers.

The neighborhood

The urban structure



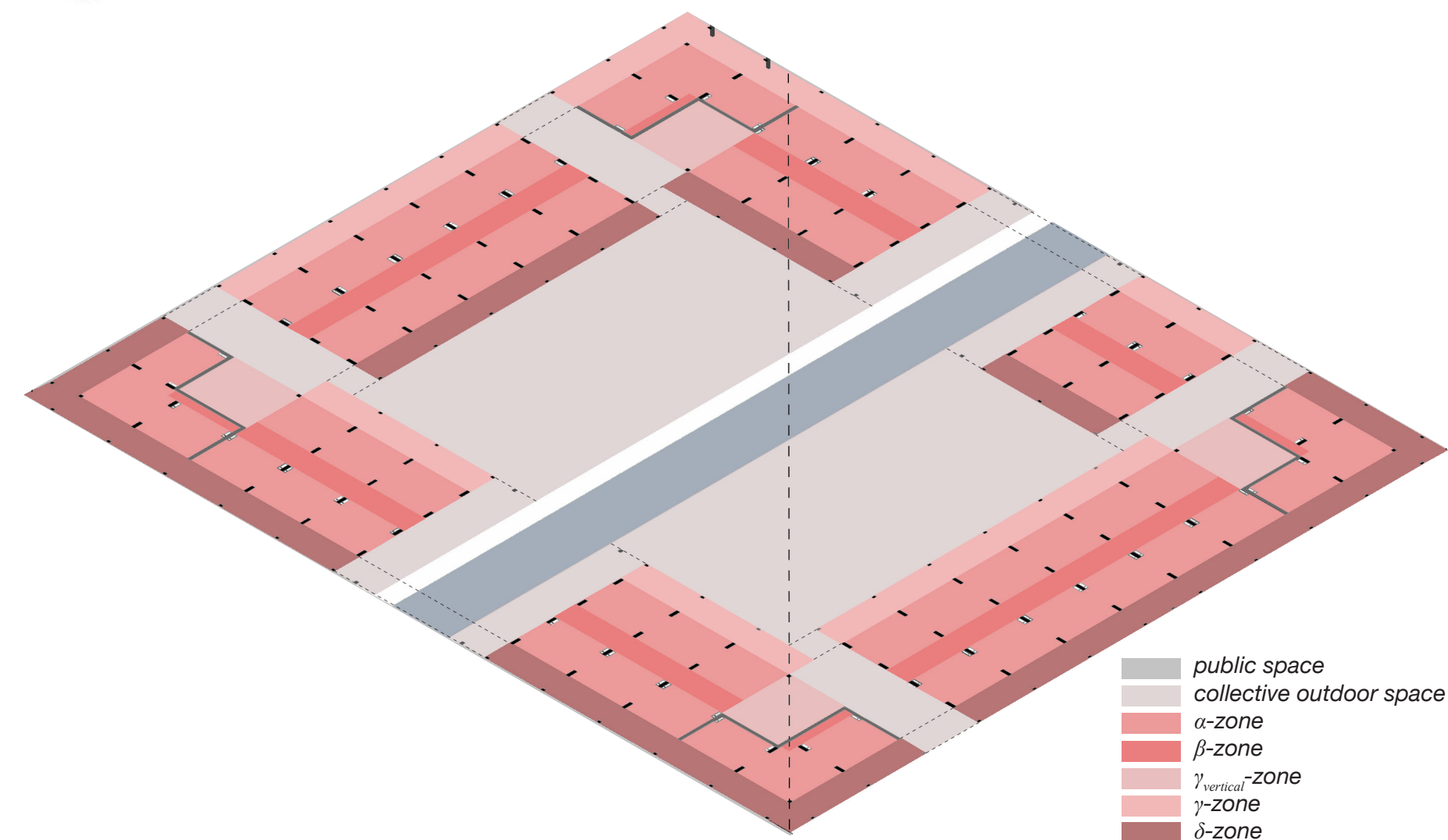
The area is situated between Sloterdijk (east), the railway (north), the Haarlemmerweg (south) and the Brettenzone (west). The dense neighborhood of multifunctional support blocks consist of an urban structure which makes a connection between Sloterdijk and the Brettenzone. The water makes a connection with the restored Haarlemmerterkvaart at the south side of the area.



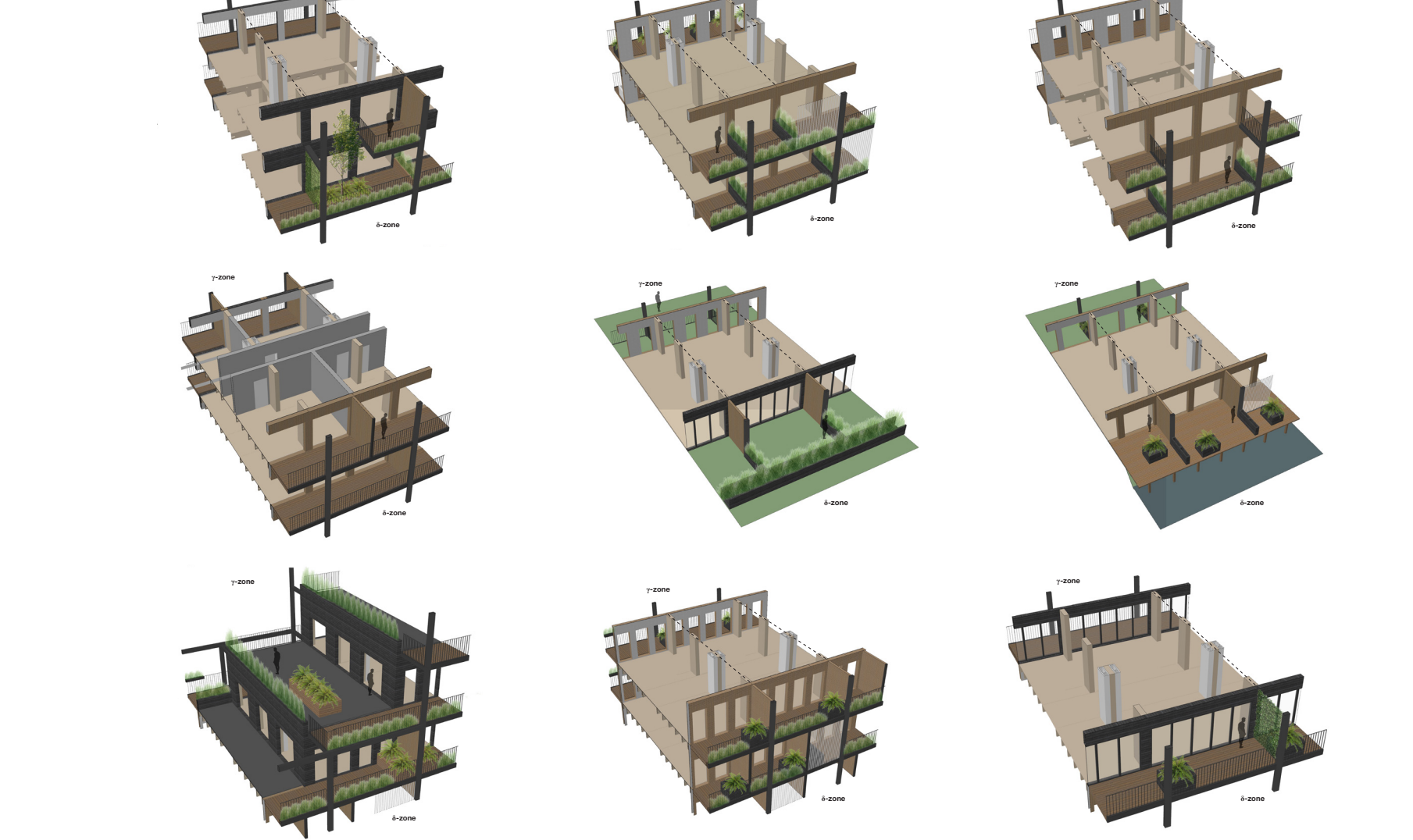
The urban structure is formed by super blocks with 4-12 layers. FSI 2.25; GSI 0.39; OSR 0.27

The community

The urban block



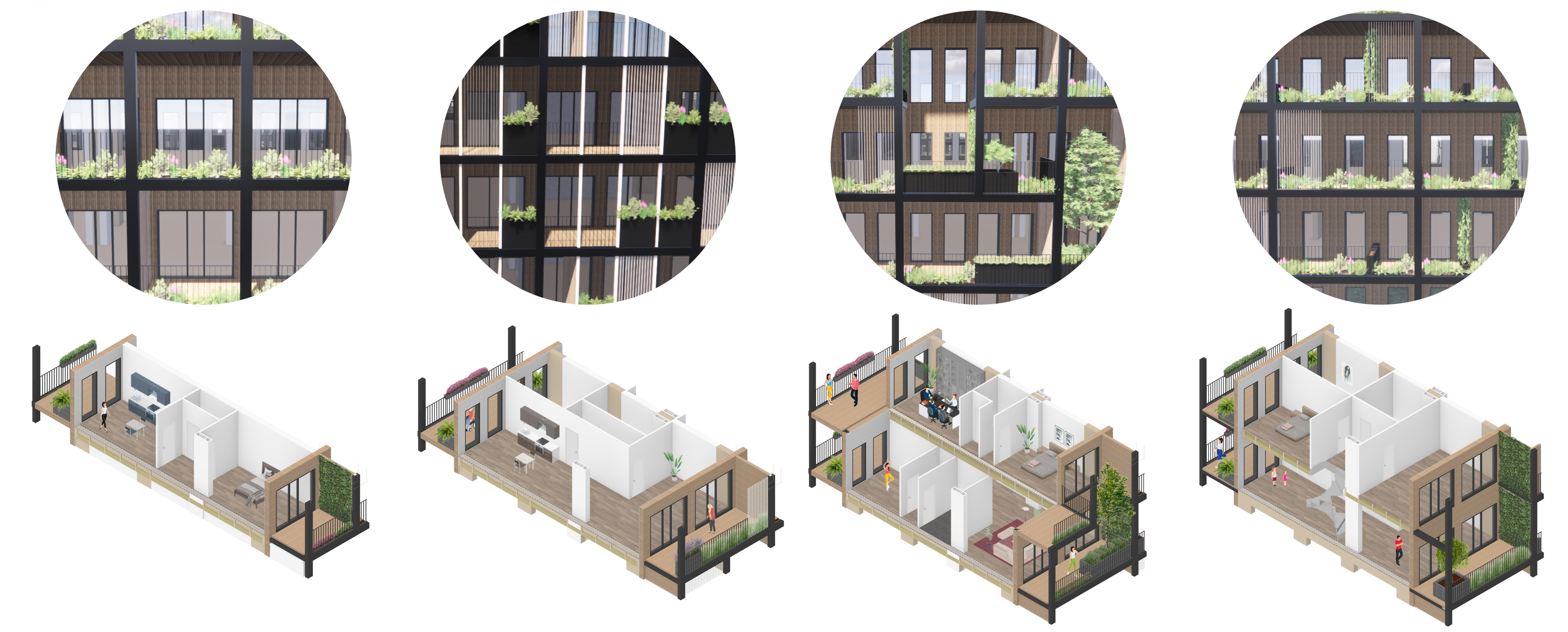
The support consist of several zones which offer a lot of freedom and flexibility. The inner courtyards of the urban blocks form an important in-between space for communities. Besides its important social role, it can be used for urban farming, sport activities or serve as a playground for children.



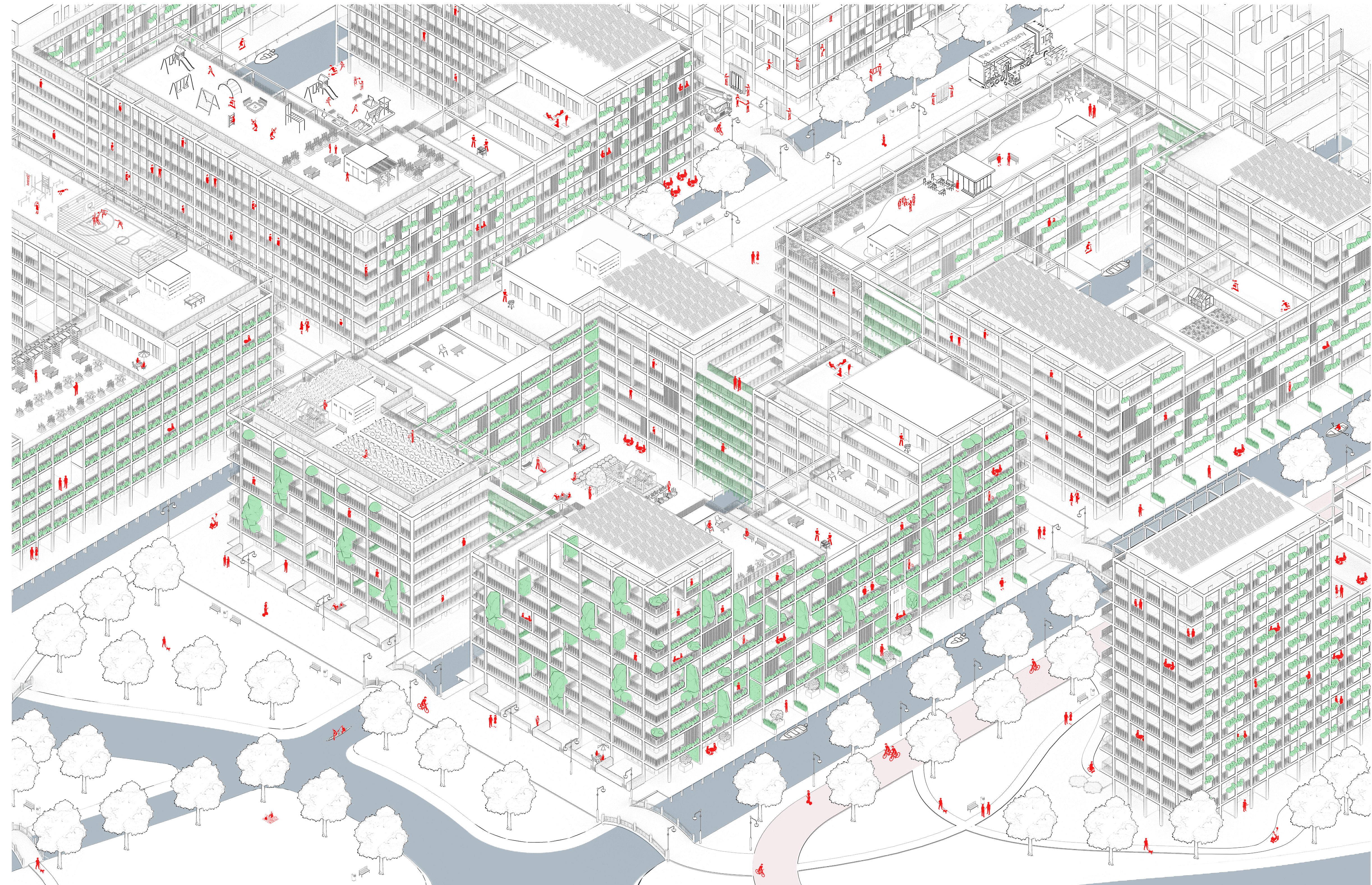
Blocks are divided in several clusters which all have their own characteristics and qualities so each user can find the perfect place for realizing his dreams.

The individual

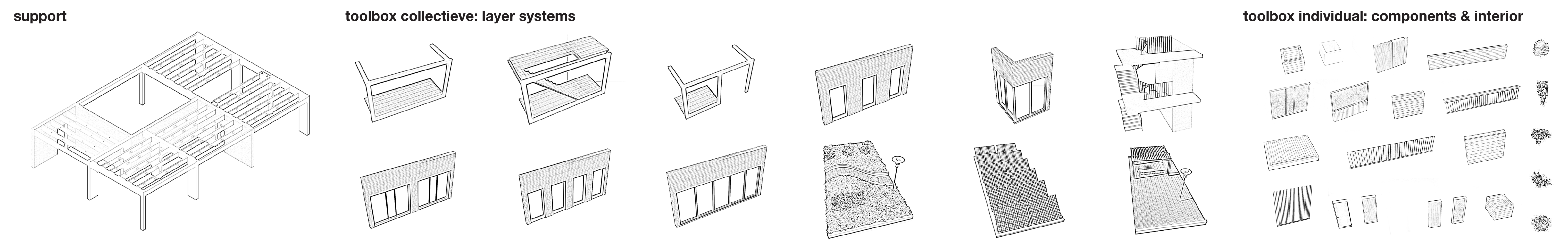
The home



Users have the possibility to assemble their own home. Due to the open support structure, user can choose different sizes for their apartment. For the facade and private outdoor spaces they can choose from a pre-designed assembly of components which is offered by the architect. Users have the complete freedom to design their own interior private space. The architect can offer examples of interior layouts conform the needs of the user.



The toolbox is used by different architects to design a building block in collaboration with the users who can create their own home with pre-designed assemblies and start a sharing community based on shared values and interests.



The smart support system is a fixed design with fixed dimensions, zones and materials. The corner has an open core which can be used for vertical access and services elements. The specific oversized dimensions of the support offers many possibilities for future alterations of the open building.

Above several systems are shown from the toolbox. The toolbox of systems is used by different architects to design a building block. Systems from the same type are designed with the same materials, technique, detailing and connections so they can be built in one factory and be assembled in many different configurations. The only changing variables in facades elements are for instance the exterior wood finishing and the size of the openings.

Components like doors, windows, planters, railings, privacy-screens are used by the architect to make pre-designed assemblies and offer users the possibility to assemble their own living- and working space.

