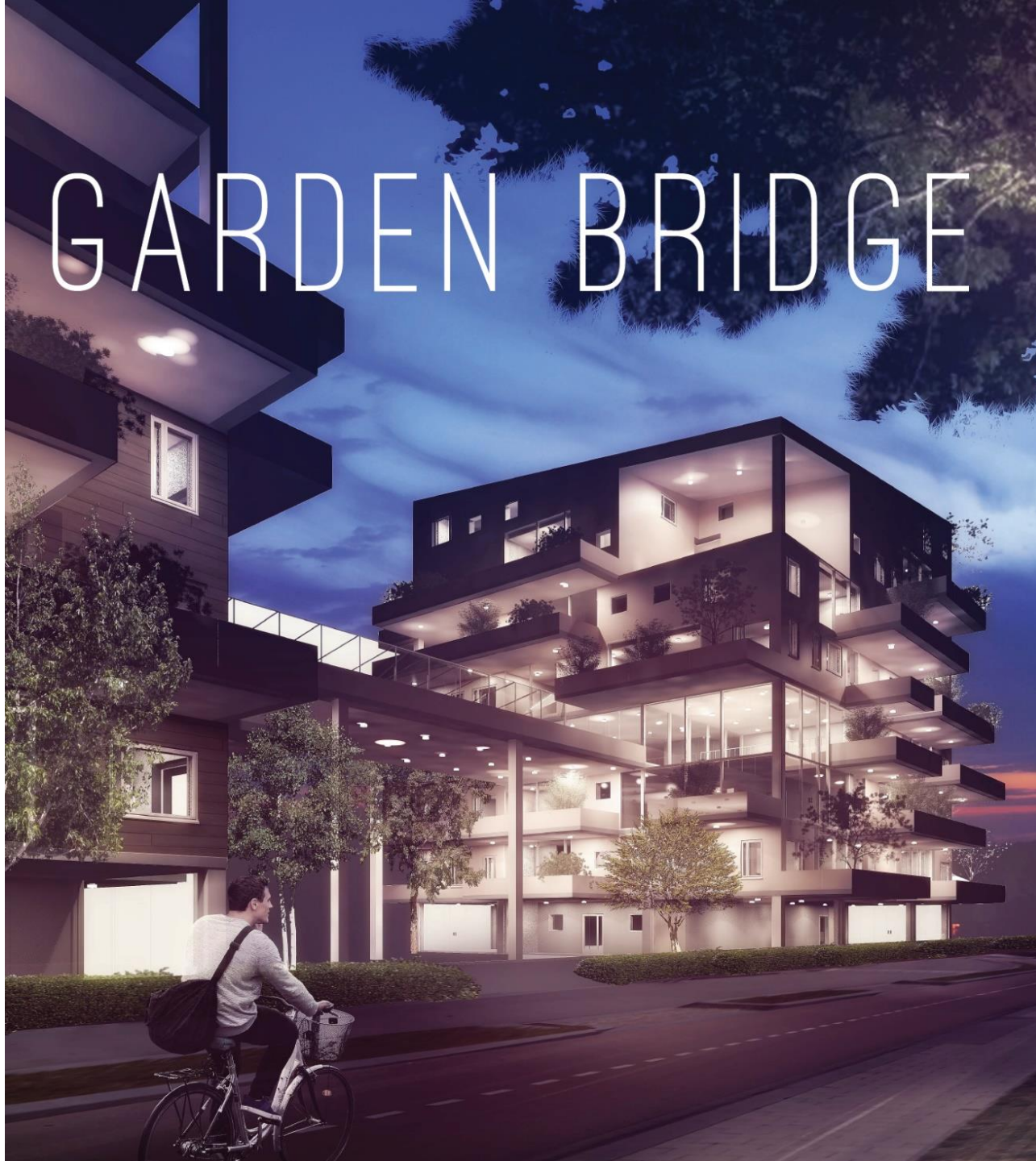


# GARDEN BRIDGE



Antti  
tuoma

Kaleva church

Liisanpuisto park

Location:  
Sammonkatu  
street  
Tampere

Total constructed  
infill area: 1800m<sup>2</sup>

Total floor area of  
the whole infill  
area:  
10800 m<sup>2</sup>

1:200 site plan of this area

Sammonkatu

Parking

Parking

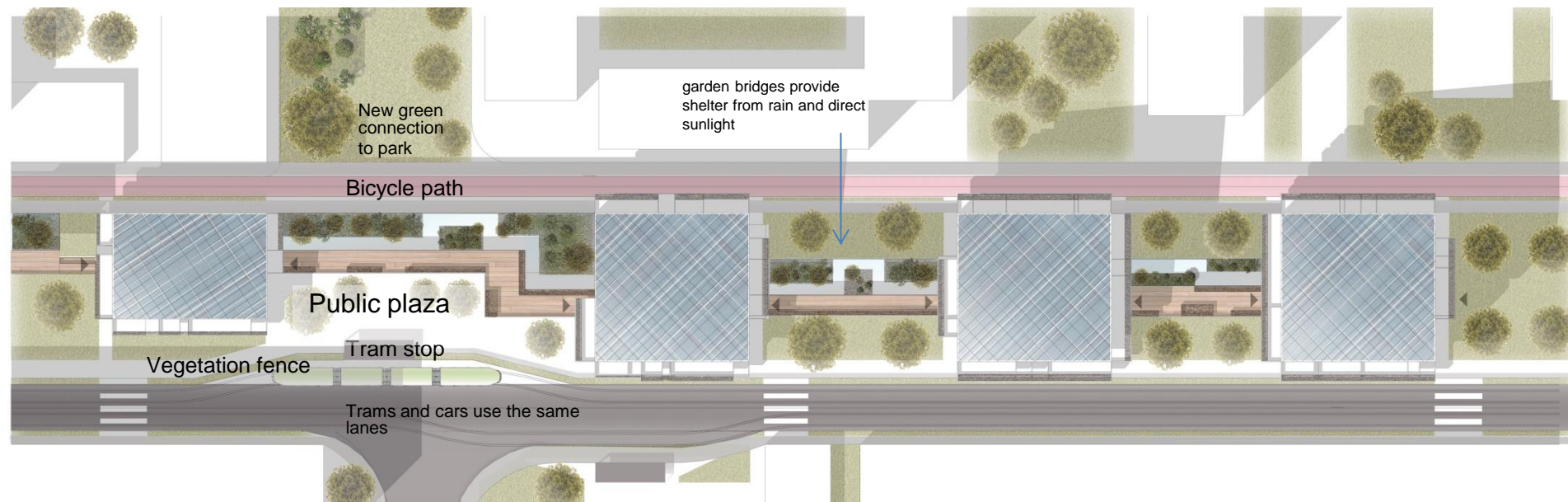
Public plaza & tramstop

- Some existing unnecessarily wide streets could be used as a template for new housing in an urban city structure as an infill project
- Services are near already
- Building could mostly consist only of dwellings (with few communal and shared spaces as well)
- 40 meter wide sammonkatu street could be a place for this type of infill project
- Locating new infill buildings in between the existing city structure, good views from buildings can be attained

North



- Buildings on top of existing infrastructure, streets are yet no-ones lots
- Building group could be built partly, new buildings could be built into the system and connect each other with bridges
- Bridges could make turns within the city structure, for example 90 degree turns to surpass roads
- Crossroads under the building system could be a garden, public plaza or market plaza
- There could be straight connections to existing services nearby from the bridge, for example to existing caring center
- This type of infill building plan could be considered anywhere in the world as it comes into redesigning and refunctoning existing streets







- There are railings that lead to common spaces and garden bridges
- Frames, railings and door openers are painted black to have a contrast to the light colored walls and ceiling finishes
- Bridges connect always between two common spaces within the buildings system
- Dwellers can choose to go either outside or through a winter garden to visit other common spaces
- Bridges offer a safe way to enjoy outdoors and nature and the possibility of urban farming

Music & dance room

Art room

Housing

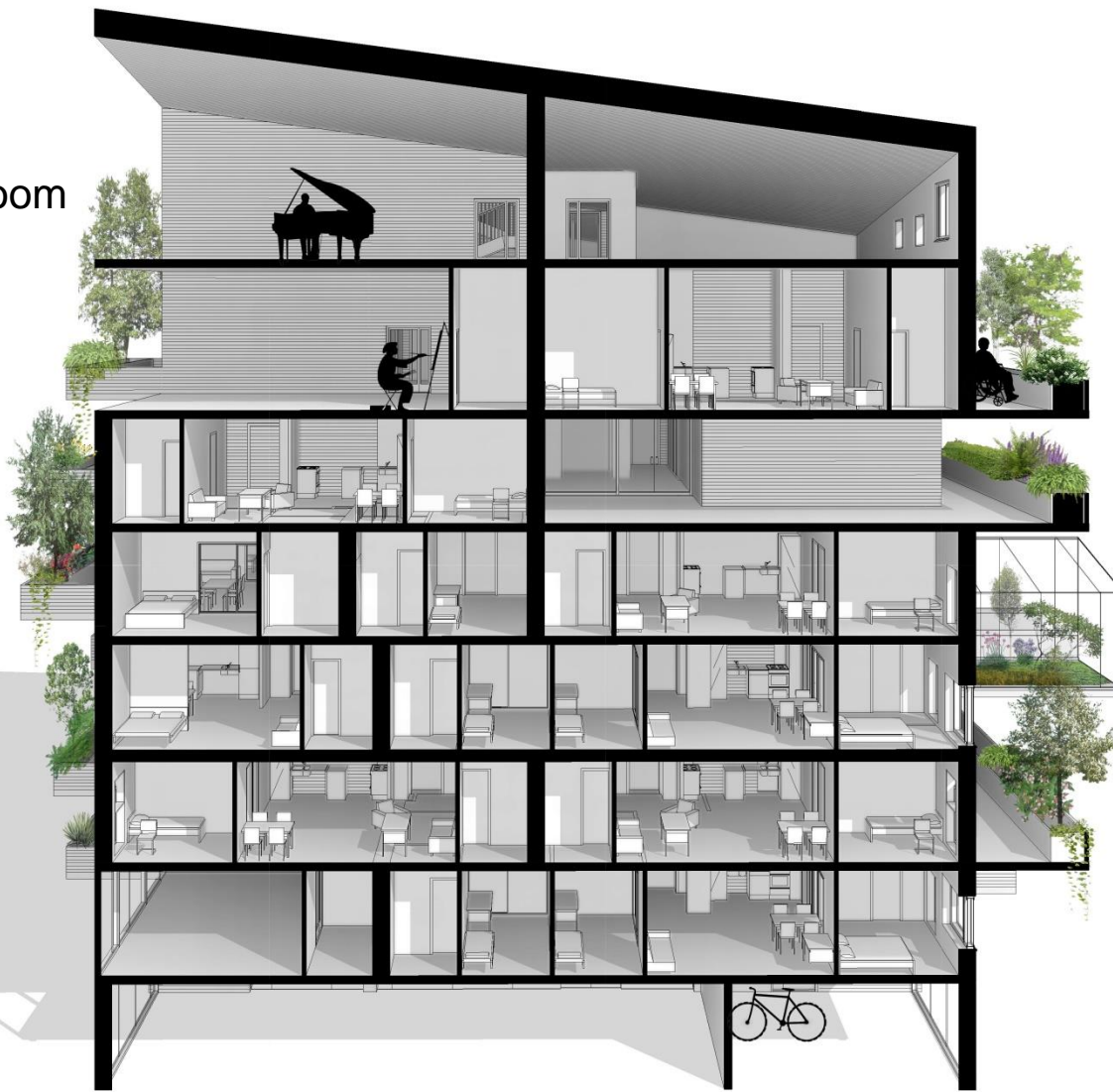
Housing

Housing

Housing

Housing

Shop



Mechanical room

Housing

Housing

Garden bridge

Housing

Housing

Housing

Lobby, restaurant,  
Bike storage &  
maintenance

## Traffic arrangements and directions in Kaleva area

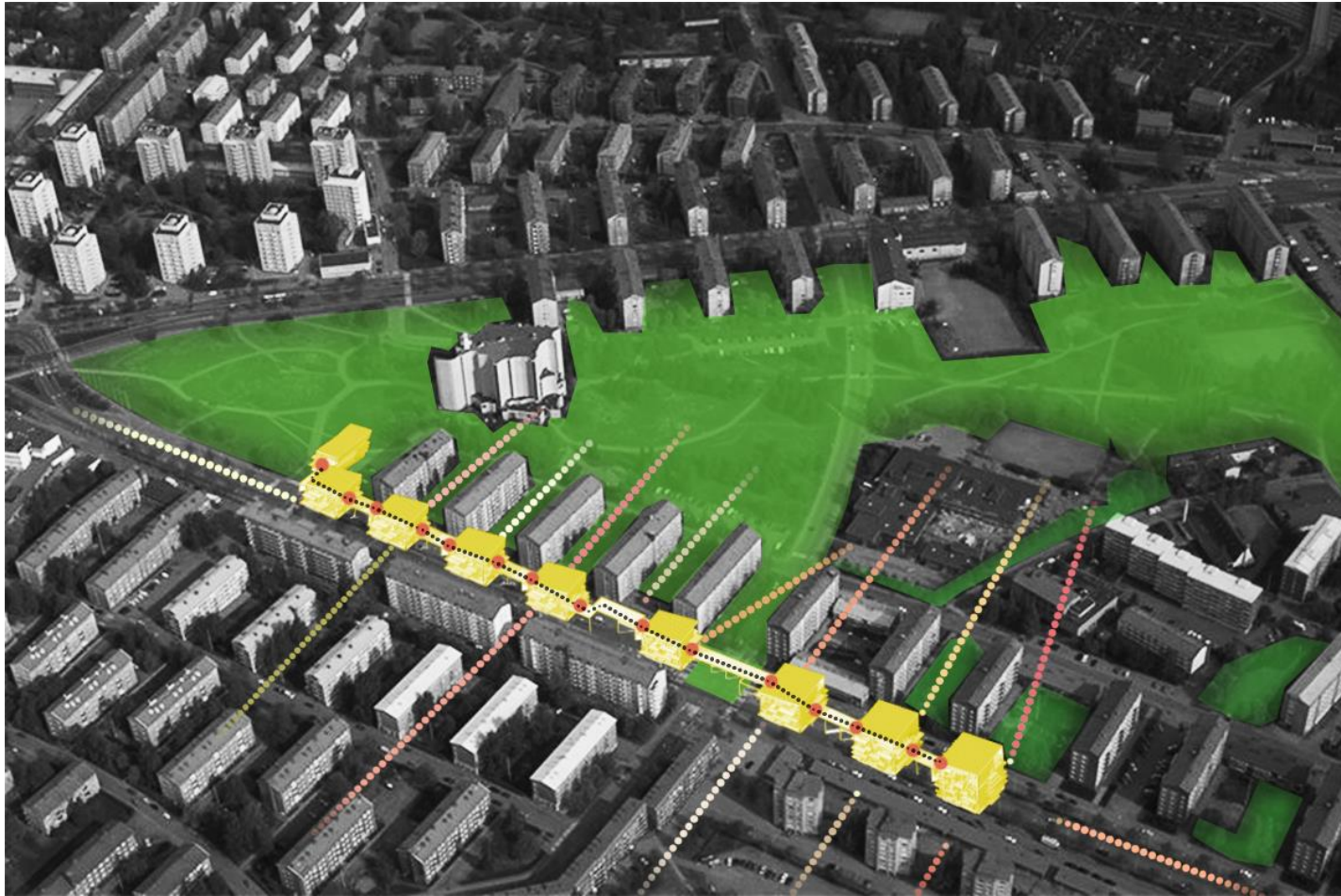
Removing middle lanes (marked red)  
there becomes space for infill buildings

Removing these unnecessary  
lanes the greenery continues  
making the park safer



Streets and parking lanes next to existing building  
Are retained

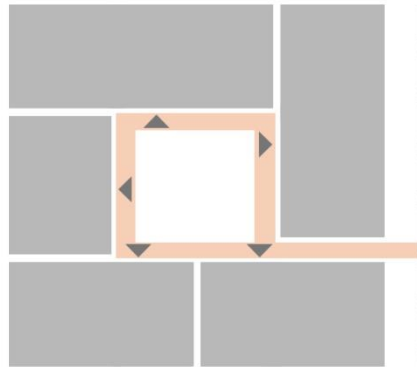




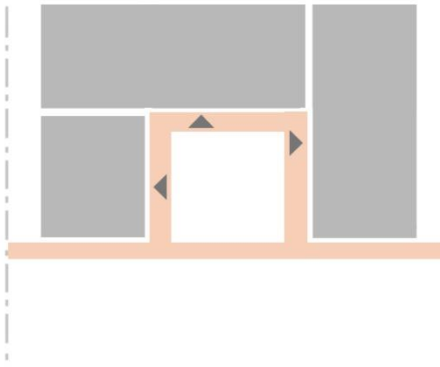
### Aerial view of sammonkatu

- Views from apartments through existing city structure
- Common space connections through buildings via bridges

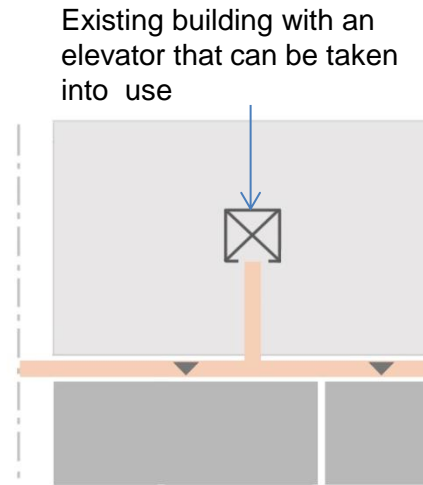
Building system can grow and transform to smaller size depending on the surrounding city structure •



Full size block



one side removed



Existing building with an  
elevator that can be taken  
into use

1 side left (building parasitic)



Modular dwellings on top  
Of each other



Openings for  
natural light

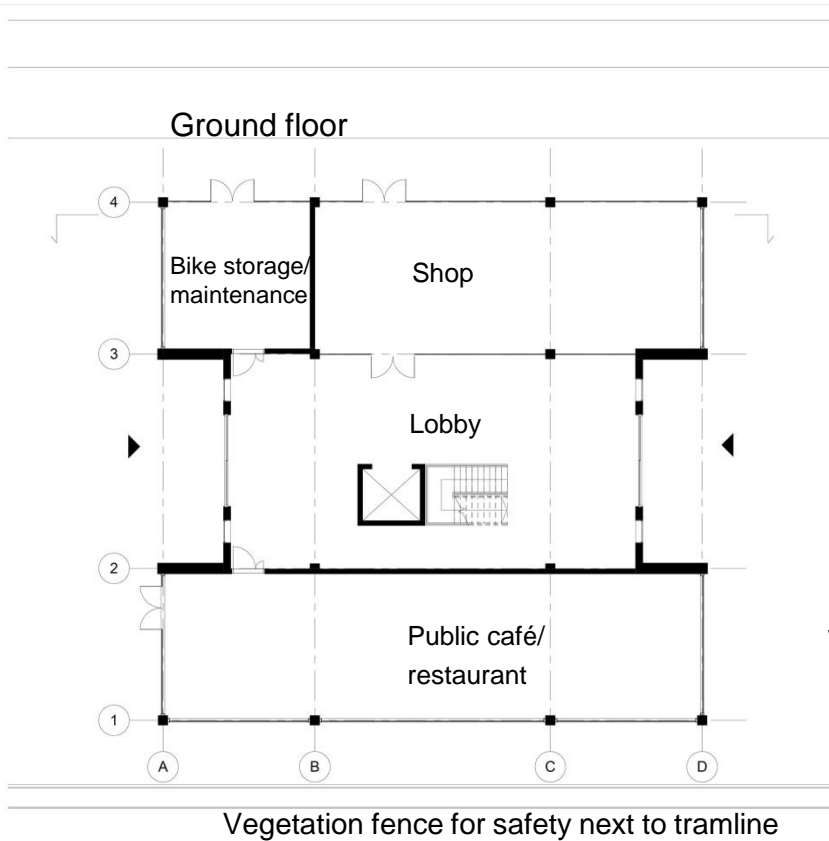


Openings for  
common space



# Prefabricated modular dwellings

- Prefabricated modules add in efficiency and reduce the cost of buildings.
- The modules are constructed inside a factory so they are not exposed to weather and moisture.
- Three different sizes of modular dwellings which can form a group of dwellings on top of each other
- Shafts are always located in the core side of the building so it allows the modular units to stack differently on top of each other •



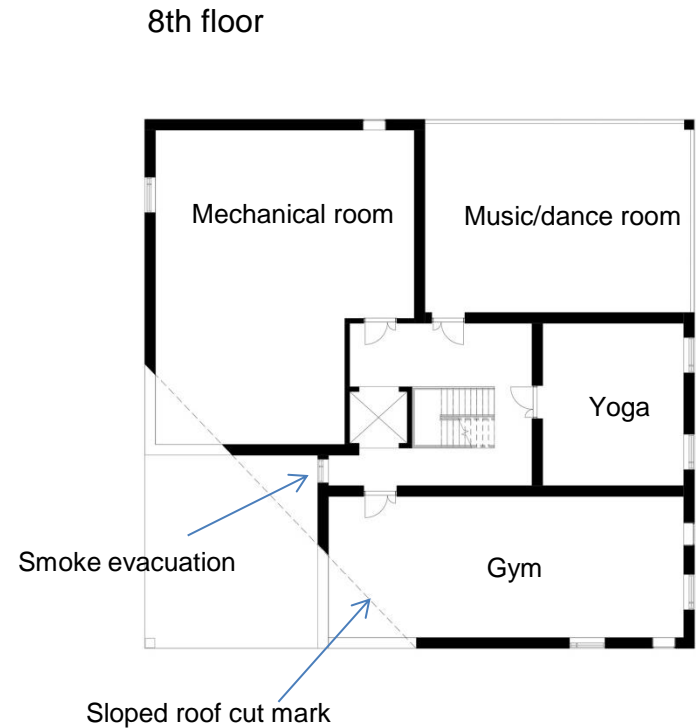
- Three different sizes of dwellings attract people of all ages. the largest apartment has the ability to transform into separate pieces in two different ways.
- When needs change, this would improve the chance to age in place.



This solution offers a possibility for grandparent/s to live next to relatives. Both apartments can provide private life.



- In the building There are also large balconies with wide planting containers where dwellers can grow small trees that brings the nature in urban environment and also reduces temperature variation within the dwellings in warmer regions.



Floor area and distribution of apartments of this eight-storey building:

studio apartments (42 m<sup>2</sup>): 9  
3 room apartments (56 m<sup>2</sup>): 10  
4 room apartments (90 m<sup>2</sup>): 7 (varies)  
mini apartments 2-9 (varies)  
common spaces: 6, total of 250 m<sup>2</sup>