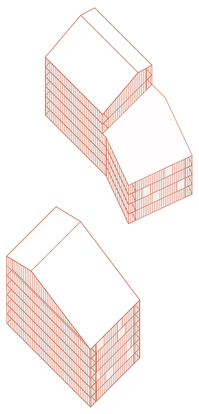
(me)tsä

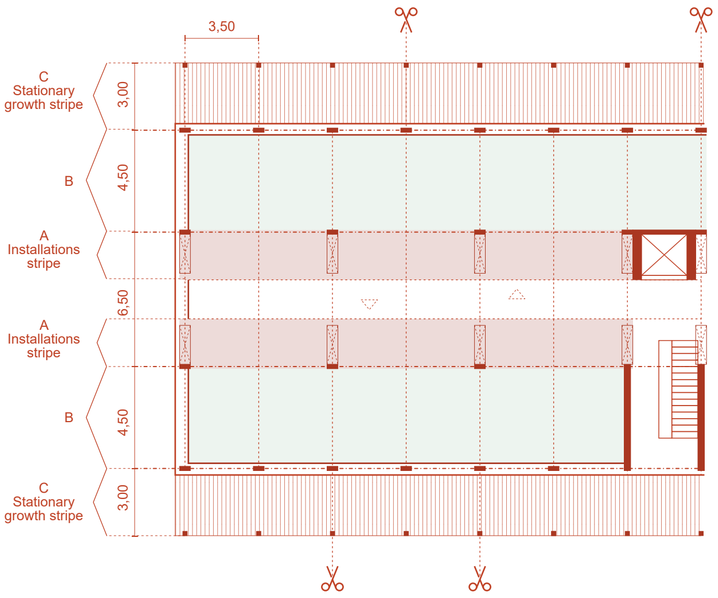
Self-sufficient community

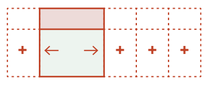
The building proposal goes after industrialized wooden and timber systems not only to pursue a flexible and adaptable system, but also to support a sustainable construction process. Following a zero-waste management policy, the project works as a circular economy where residues can become resources, generating a self-sufficient community including people and many other living creatures of the environment.

L Housing block

Density	High
Gross m2/floor	800-950m2
Heights	5-7
Public space	L-M

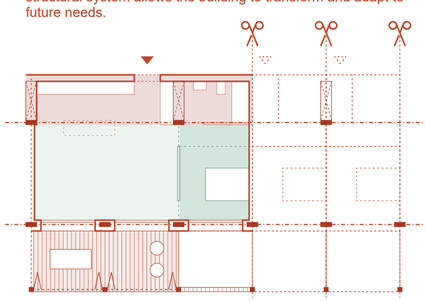






Cut-out housing

In order to guarantee versatility in the housing distribution and optimize the design process, the system provides housing with variable amount of rooms. Adapting to the needs and requirements without modifying the building. Besides, the structural system allows the building to transform and adapt to future needs.



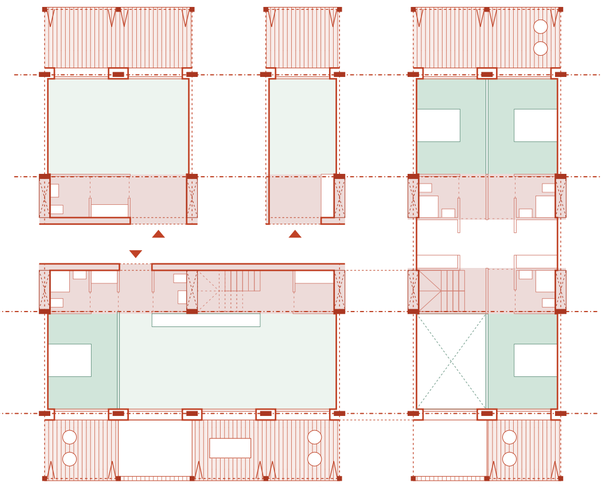
TYPE A.1
2 ROOM. 62.7m²

TYPE A.2
3 ROOM.
84.5m²

TYPE A.3
4 ROOM.
106.3m²

SHARED A
Workplace and meeting

SHARED
Laundry



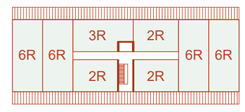
TYPE B. COMMUNAL
6 ROOM.
125.3m²

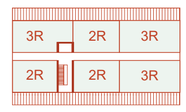
lower floor

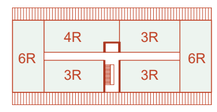
upper floor

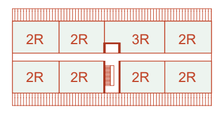
1:200 10m 5m 1m 0m

POSSIBLE PLAN TYPES



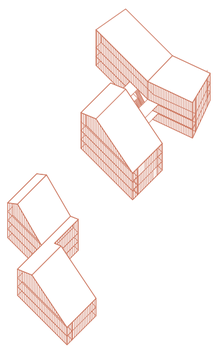


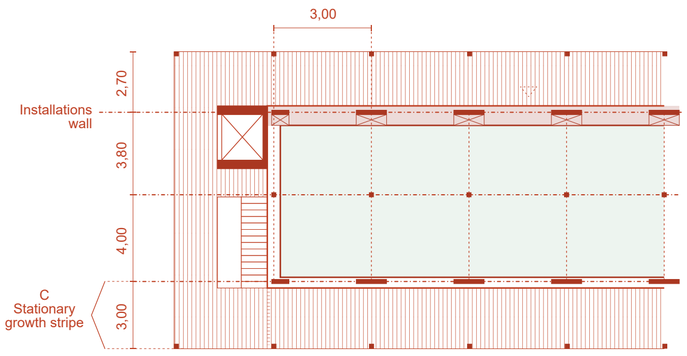


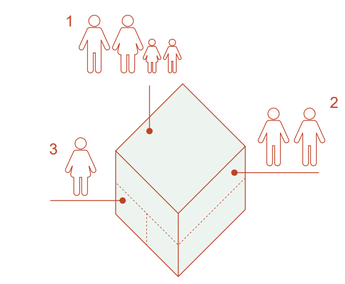


M housing block

Density	Medium
Gross m2/floor	400-700 m2
Heights	2-4
Public space	M-S

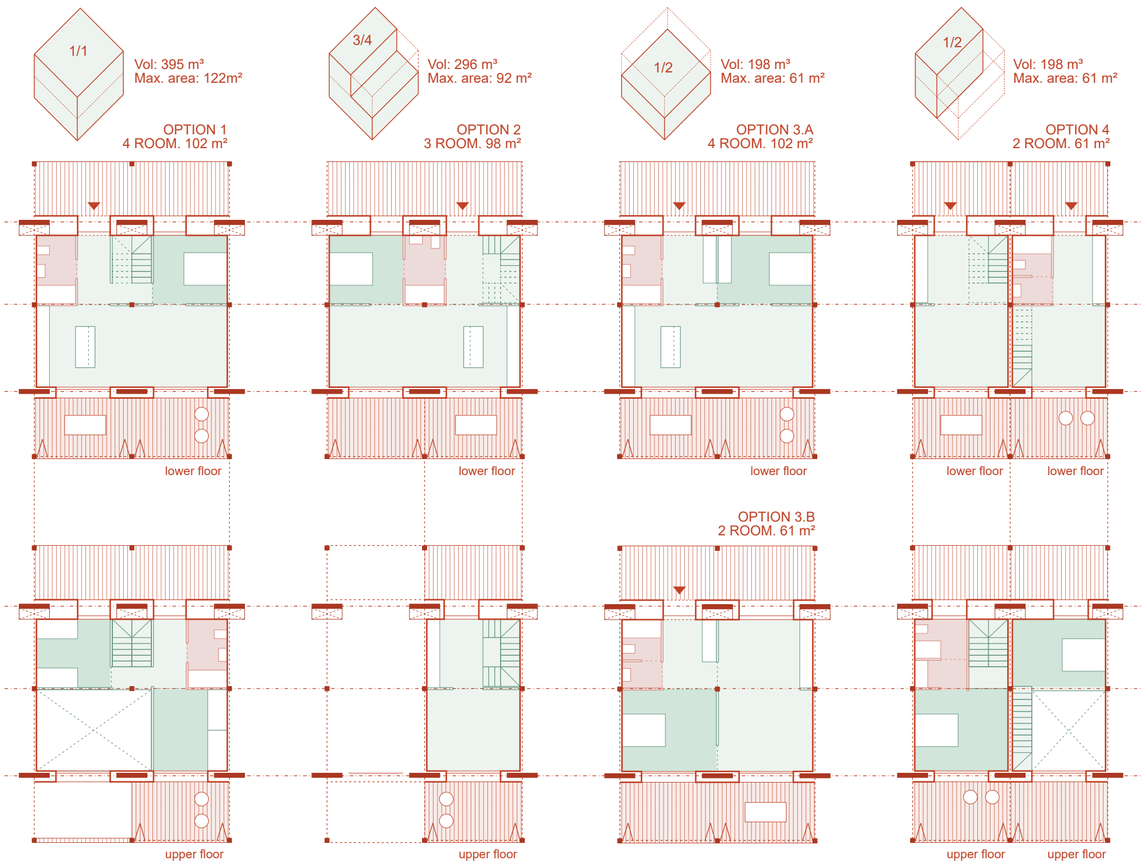






Negotiable volume: 395 m³

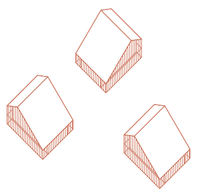
To enhance the sense of identity and belonging, this housing type incorporates the user actively in the design process. Starting from a "shared" volume, the size and number of homes are negotiated. Inside each individual volume, each neighbour can customize and adapt their home to their preferences and needs. The structural system, conceived as *support* also allows the building to transform its *infill* and evolve over time.

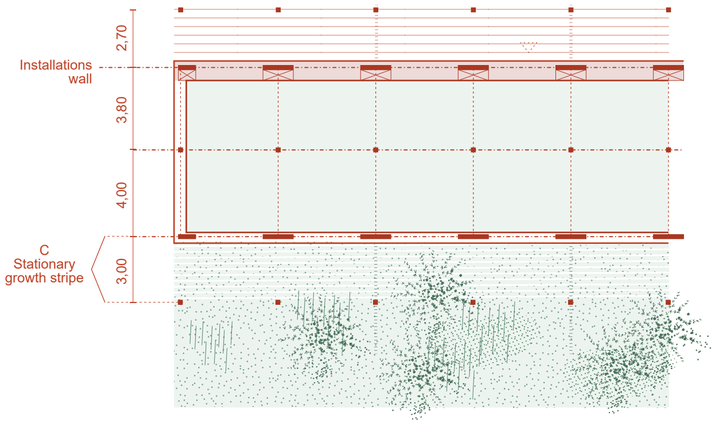


1:200 10m 5m 1m 0m

S housing block

Density	Low
Gross m2/floor	190-270m2
Heights	1-2
Public space	S





CIRCULARITY AND SUSTAINBLE CONSTRUCTION

By using existing nearby resources not only benefits local economy but also optimizes transportation and reduces contaminants.

After being processed, wood residues can be used with different purposes: construction, insulation, paper, ecological fuels...

Wooden products can be easily stored and trasported. It accumulates carbon until it decomposes releasing CO2 back into the atmosphere.

Its excellent structural capacity and lightness allow smaller foundations due to CLT (Cross laminated timber) components like columns, beams, floors and walls.

Optimized assembly

Industrialized system that allows simultaneity with other construction phases like excavation and foundation. It is much faster than traditional construction methods reducing costs and residues.

Climatic and sound insulation

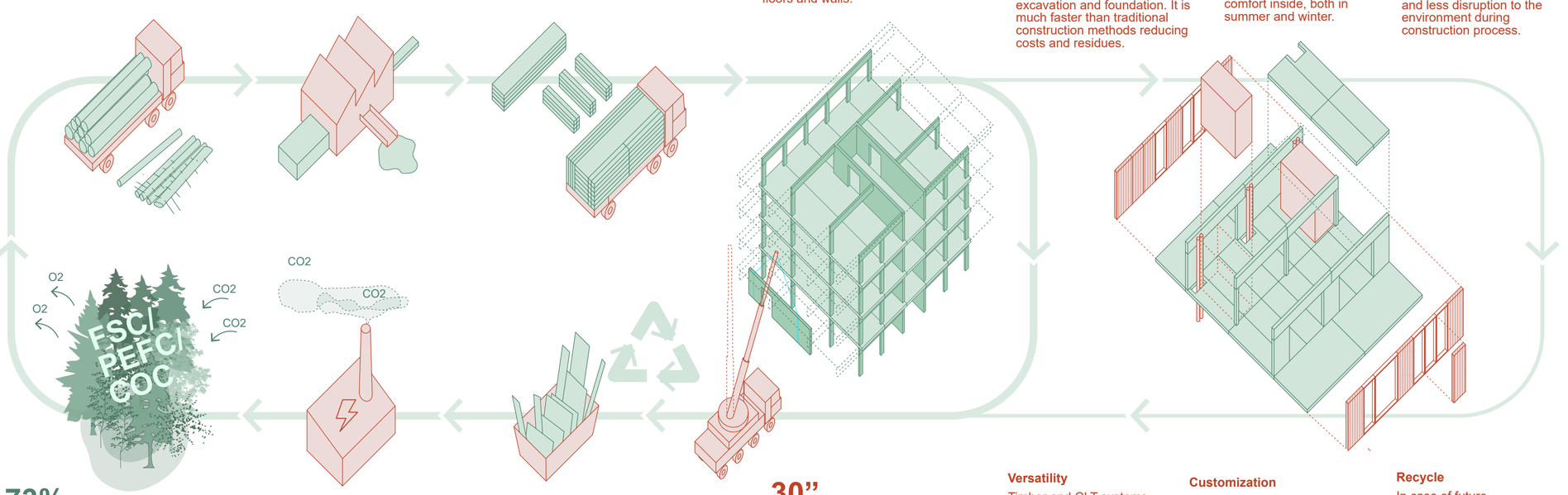
Naturally hygroscopic and insulating provides excellent comfort inside, both in summer and winter.

Idustrialization

Higher control in construction quality, better weather conditions during production and less disruption to the environment during construction process.

Seasonal housing

The terrace becomes a climatic device which allows the housing to adapt to variations in climate conditions throughout the year. In winter works as a greenhouse that accumulates and radiates heat. In summer, the limit between interior and exterior dissappear, benefiting natural ventilation.



73% of finish land is forest

Forests act as carbon sinks, absorbing CO2 and libearting O2. To assure healthy Should come from properly managed forest with FSC/ PEFC/ COC labells

As an easy burned material, wood can become an ecological fuel that can provide clean energy for other activities.

Resulting leftovers from construction or during the building lifetime can be easily recycled or transformed into resources.

30”

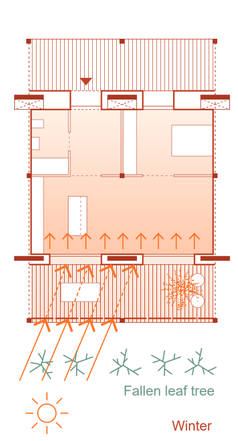
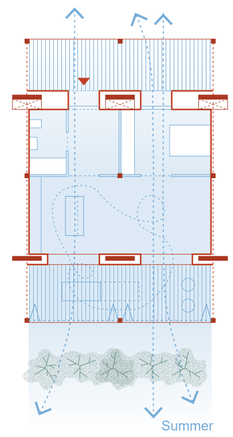
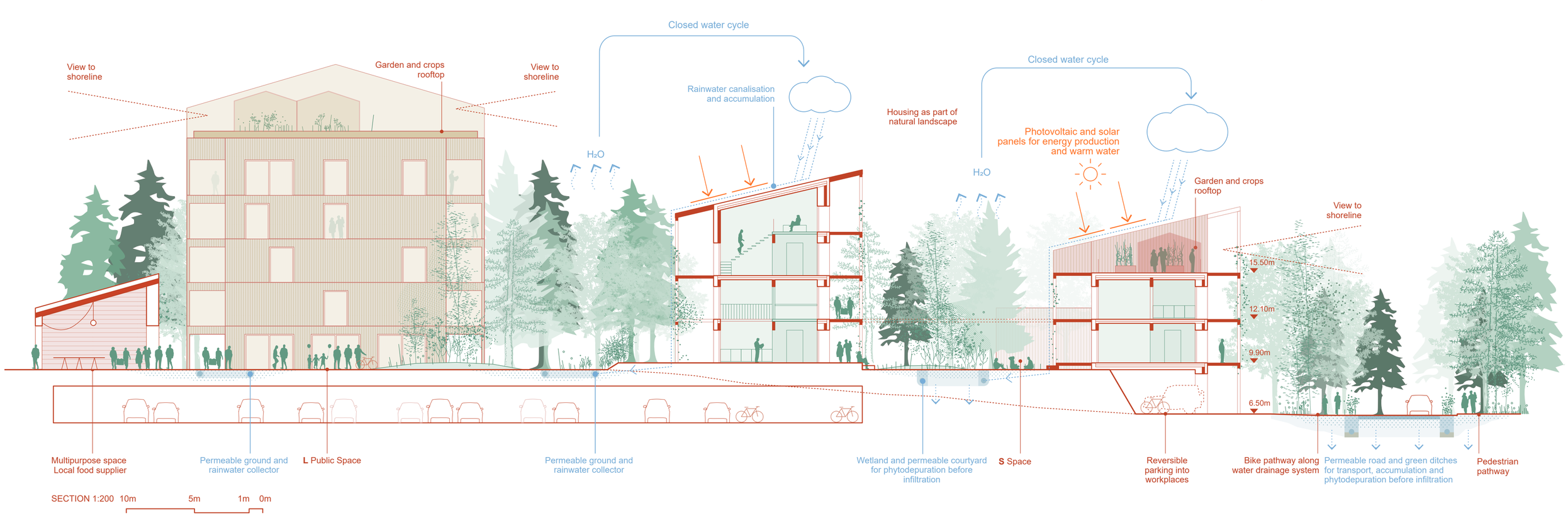
Is the time that gets to grow in Finnish forests the material for mid-size housing wooden block.

Versatility

Timber and CLT systems allows to form pieces of multiple sizes and shapes, favoring modular construction and customization.

Customization

Modular units like bathroom pieces, stairs, façade panels or terraces, can meet different spatial requirements typologyes and are flexible in use. In case of dismantlement or transformation can be easily removed.

Recycle

In case of future renovations and transformations elements can be easily removed and and recycled.