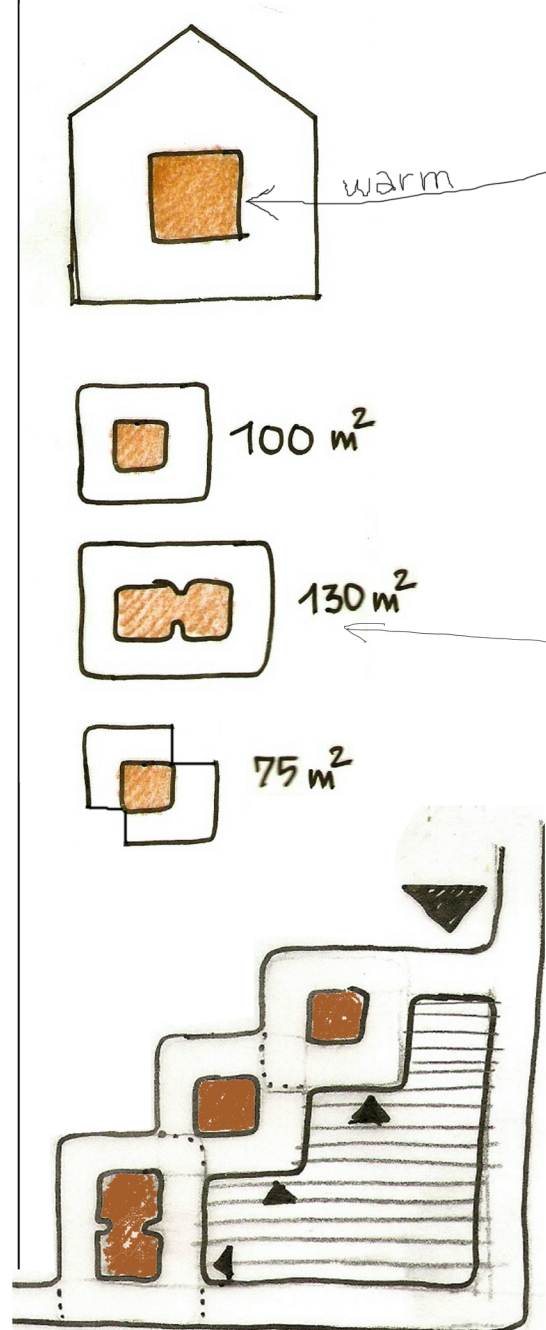


# MILD HOME AND ECO GREEN VILLAGE COMPETITION OF IDEAS

## COMPETITIA DE IDEI MILD HOME AND ECO GREEN VILLAGE

My Modular, Intelligent, Low cost, Do it yourself nearly zero energy House for our Eco Green Village



a good way to save energy would be for a home, to have a warm core, to PROTECT the room in which you spend over 70% of your time.

thus -> the living room is surrounded by all the other rooms; it results from the concentric arrangement of the wooden boxes that contain bathrooms, bedrooms, kitchens, etc.

the arrangement generates 3 types of dwellings of different surfaces:

--one of 100 sq.m. -- for starters -- young people moving to their first home.

--one of 130 sq.m. -- for families with two or three children.

--one of 75 sq.m. -- for a couple of elderly people.

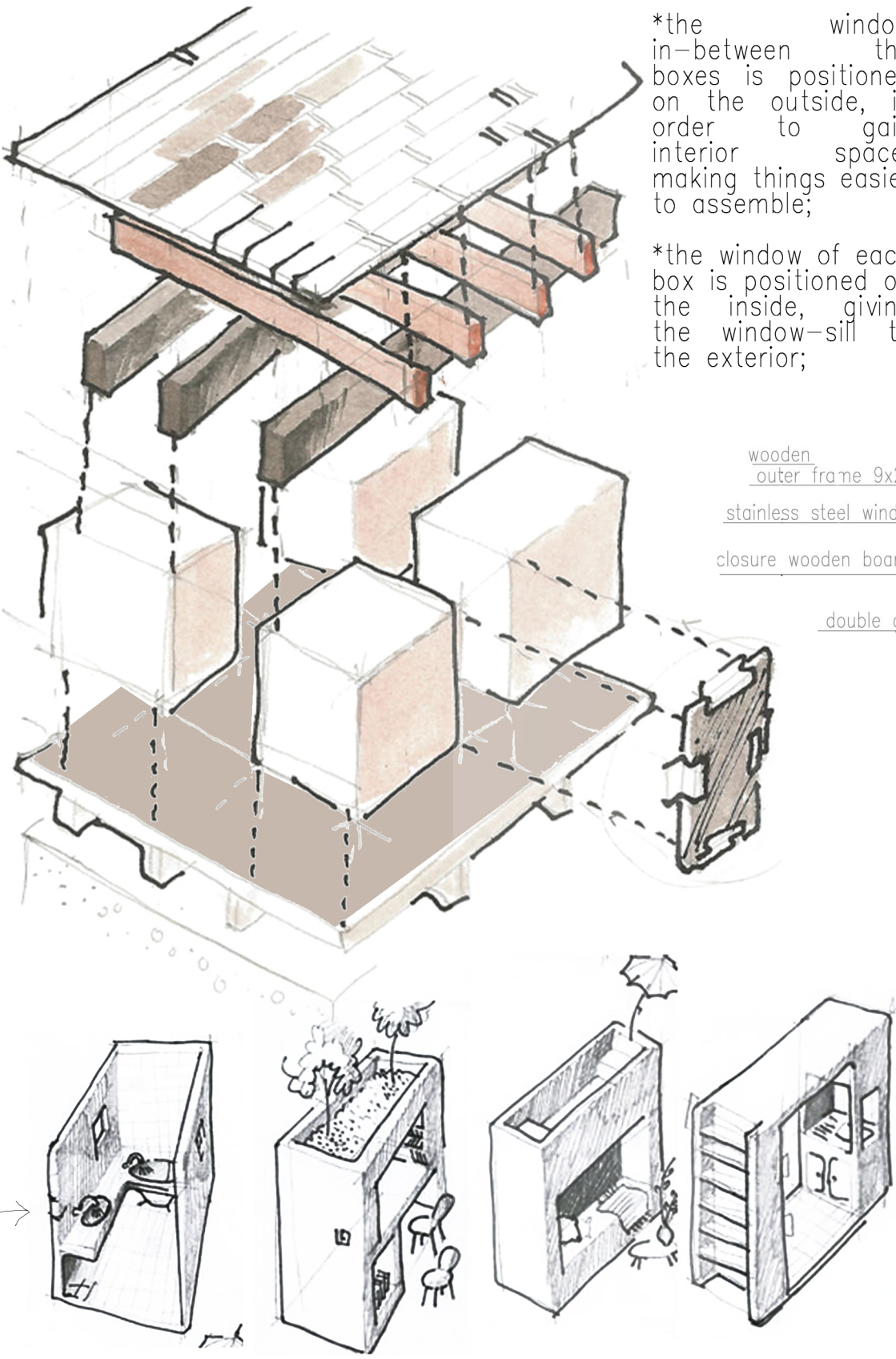
-> as time goes by the owners may shift into bigger/smaller dwellings.

in order to get everything down to human scale and make it very easy to build, there will be a limited number of BOX TYPOLOGIES which will repeat themselves, generating each MILD home (there will be differences in orientation and positioning of entrance).

the owners will, then, specialize in building a certain box, making the process all the more efficient.

e.g.:  
- the WET BOX  
- the STUDY BOX  
- the COOKING BOX  
- the SLEEPING BOX  
- the STAIR BOX etc.

### MODULARITY:



possible solution for facades:

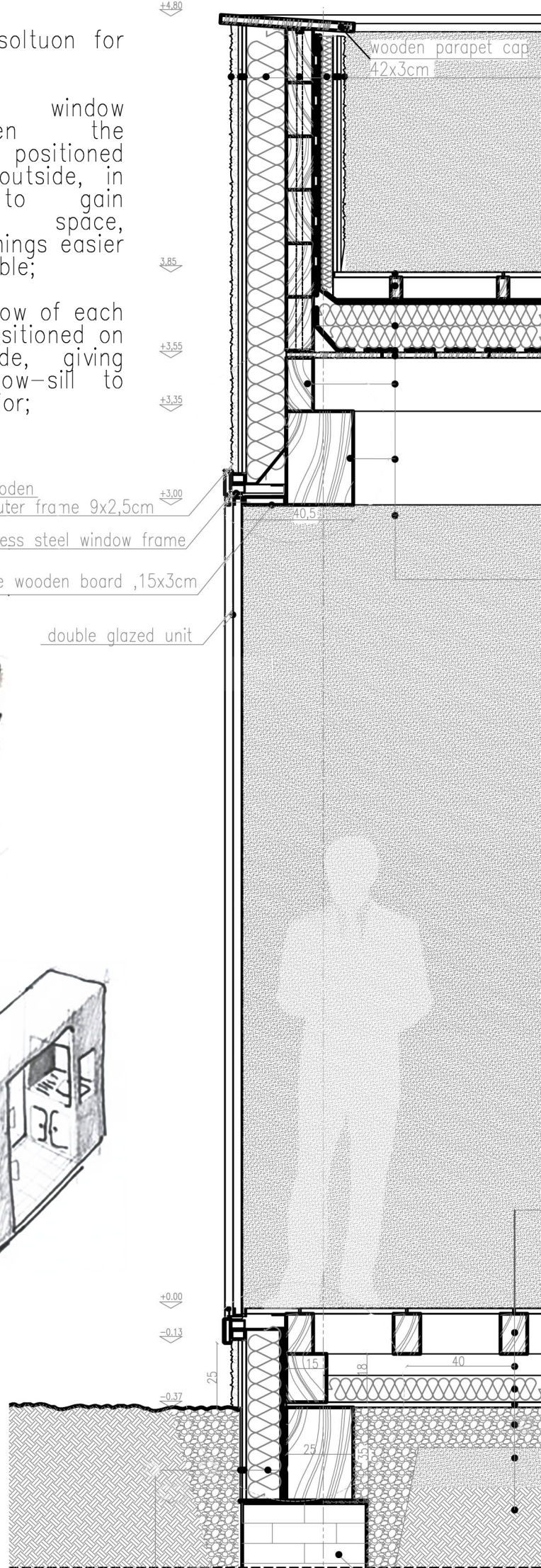
\*the in-between window boxes is positioned on the outside, in order to gain interior space, making things easier to assemble;

\*the window of each box is positioned on the inside, giving the window-sill to the exterior;

wooden outer frame 9x2,5cm  
stainless steel window frame  
closure wooden board 1,5x3cm  
double glazed unit

### TECTONIC TIMBER

building technique of the wooden boxes inspired by traditional romanian building system - dulapi suprapusi din lemn imbinati prin chertare, with extra vertical reinforcement.



plaster coating - metal lath/mesh  
wooden sheathing (panels), 1,5cm  
thermal insulation: sheep wool, 15cm  
parapet wooden boards, 10x20cm  
waterproof membrane (breathable)  
vapor control membrane  
thermal insulation: sheep wool, 5cm

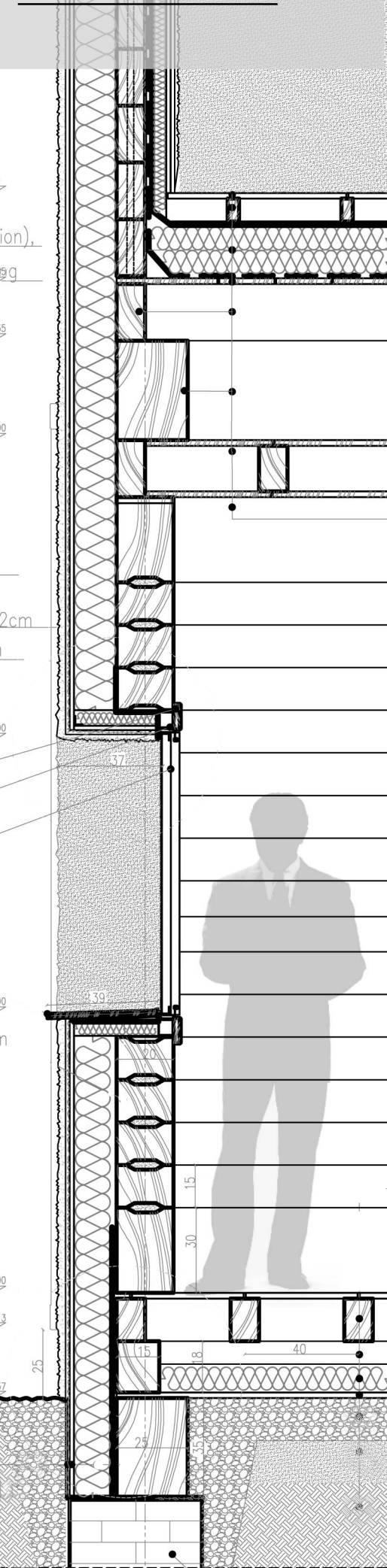
wooden sheathing (panels - occasional perforation), metal lath/mesh for adherence of plaster coating  
plaster coating, 2,5cm

wooden deck, 40x15x2cm boards  
waterproof membrane (breathable)  
double-layered rigid thermal insulation, 20cm  
vapor control membrane  
ceiling planking (rough sawn boards) 100x20x2cm  
wooden secondary beam (side view), 20x12cm  
wooden primary beam, 35x25cm  
outer "box" wall plaster coating

wooden outer frame 9x2,5cm  
304 stainless steel window frame  
double glazed unit

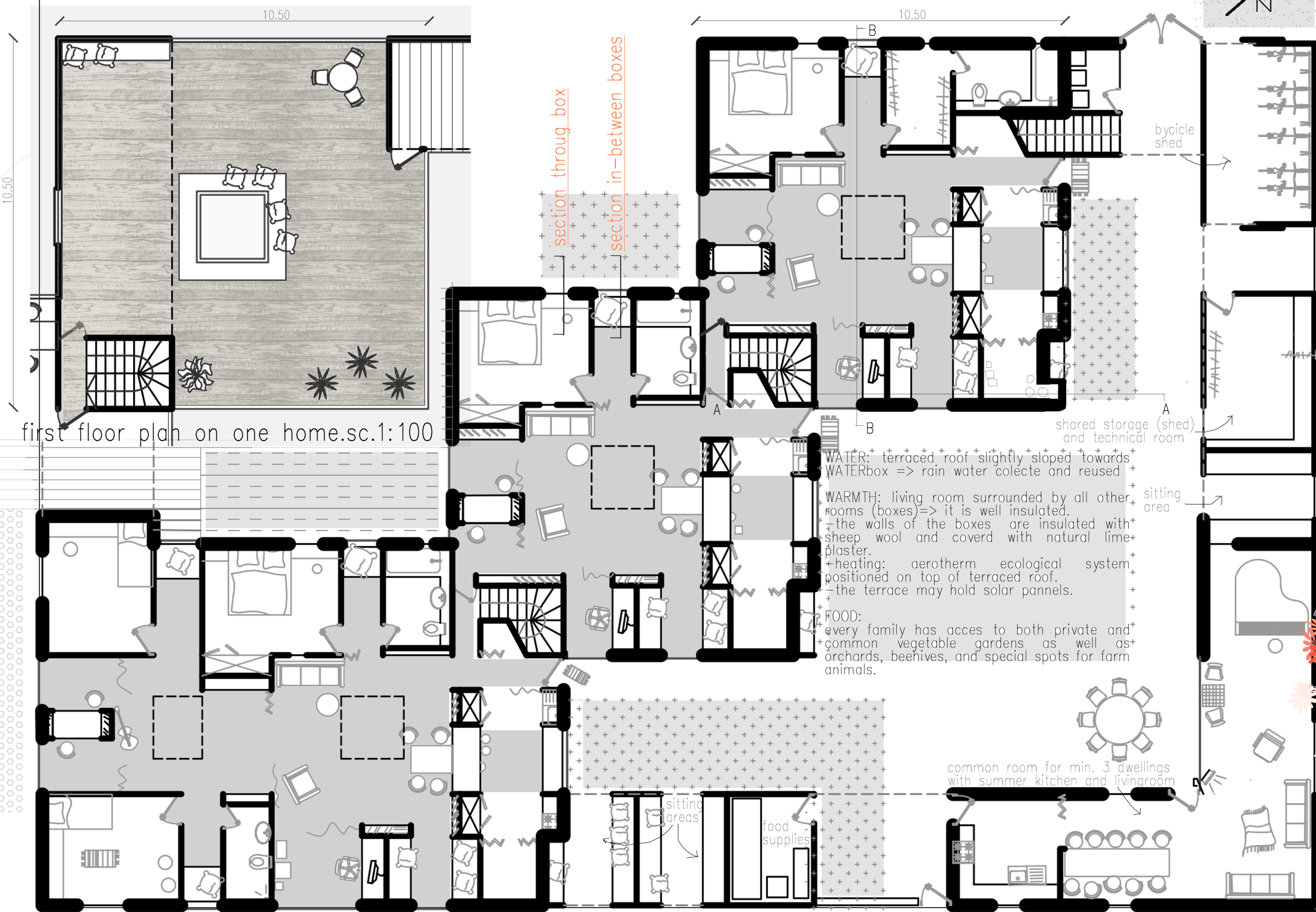
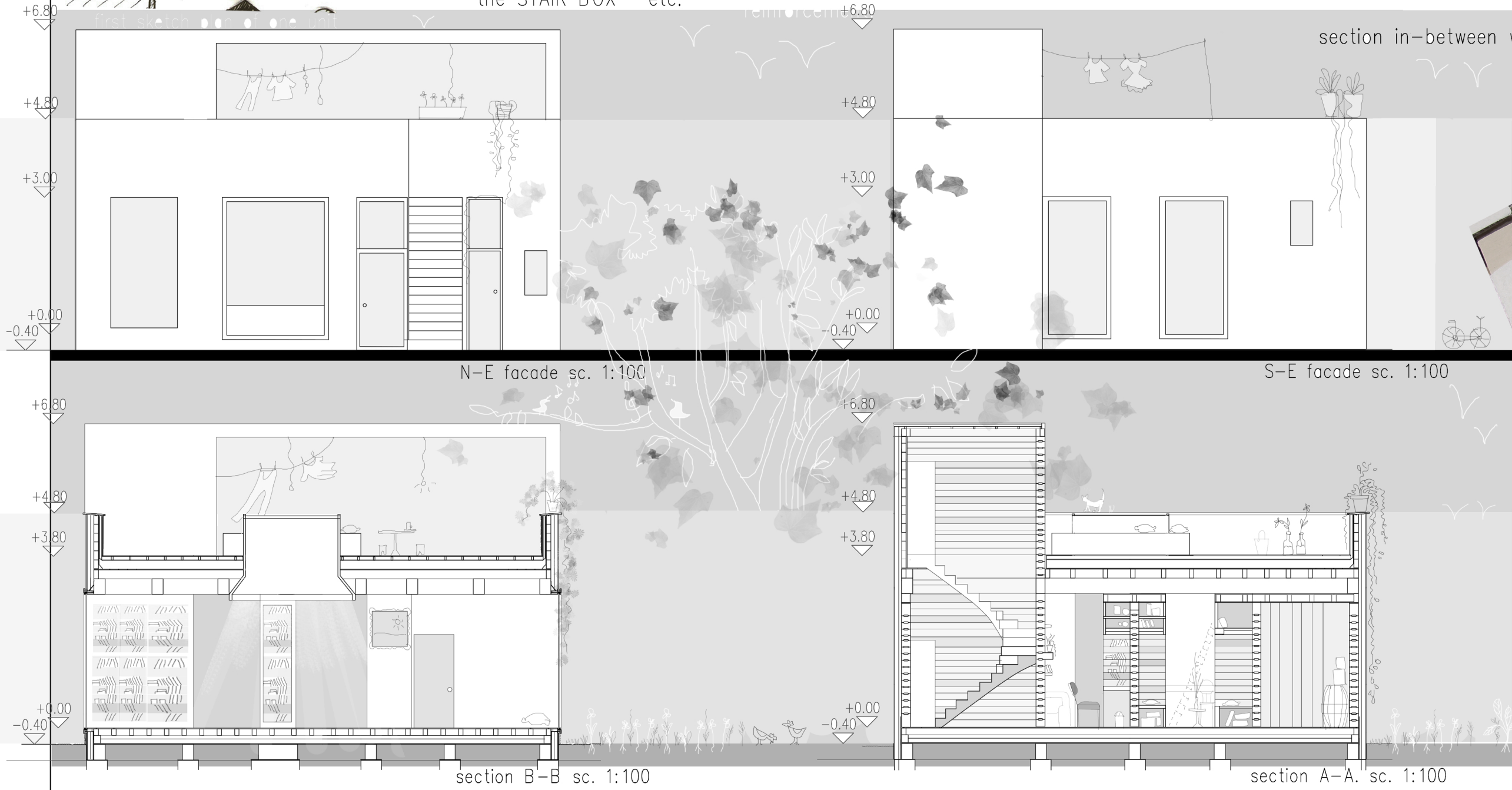
interior floor: wooden deck, 40x15x2cm boards  
supporting wooden slats, 20x15 (air inbetween)  
structural perimeter wooden beam (side view), 20x15cm  
thermal insulation: sheep wool, 10cm  
capillary break: layer of seashells, 15cm  
layer of fine sand (low granulation), 15cm  
natural soil

stud. LUPU CRISTINA  
UAUIM-Bucuresti

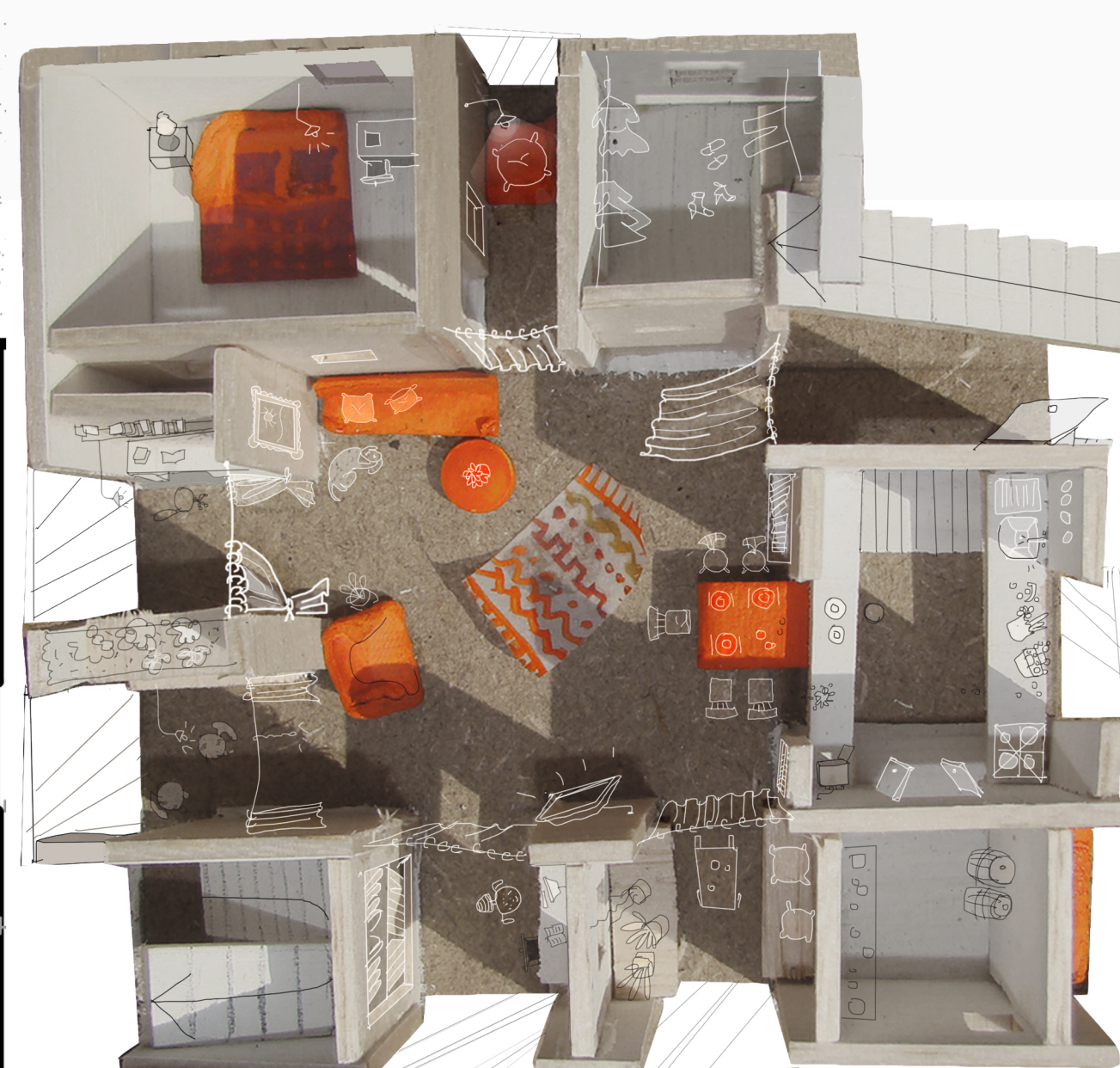


section in-between wooden boxes. sc. 1/20

section through wooden box. sc. 1/20



ground floor plan of group of 3 dwellings with adjoining common spaces. sc. 1:100



roofless top view of one dwelling made of wooden boxes



possible inside view of one dwelling