

NEW URBAN SPRAWL /

New urban sprawl suggest designing new residential areas without the process of deforestation or building any technical infrastructure. It can be placed nearby any existing road that cuts through a forest.

By taking into consideration the average human walking speed and riding bike speed, it was possible to estimate the shape and distances between next residential spaces. The center of each area was designed to fit a bus stop, a parking for cars and bikes. Distance between units should be up to 500 meters so that depending on the forest type, one unit is invisible for the other. We must remember that forest is a place we share with its natural habitat and our presence can not be too invasive.

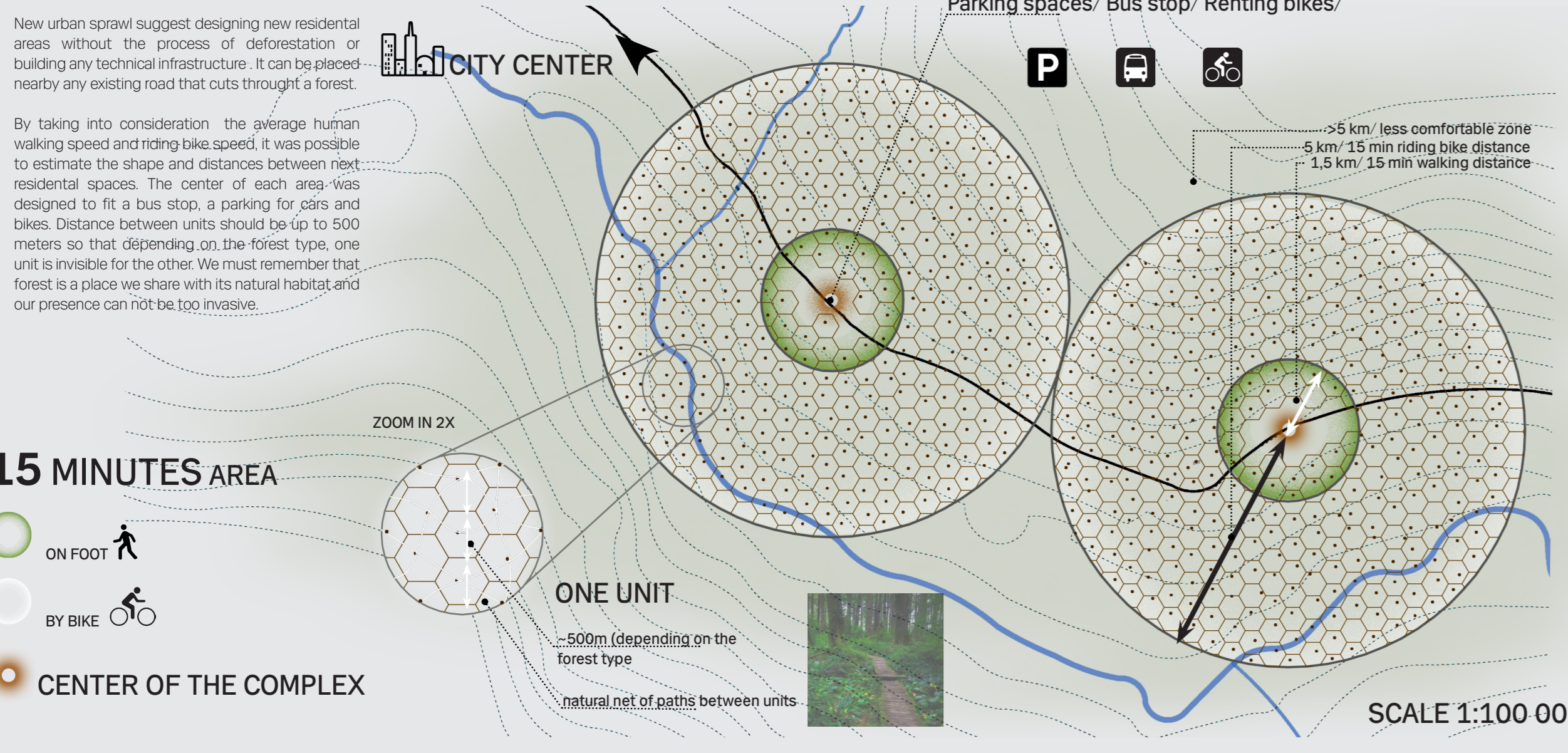
15 MINUTES AREA

- ON FOOT
- BY BIKE
- CENTER OF THE COMPLEX

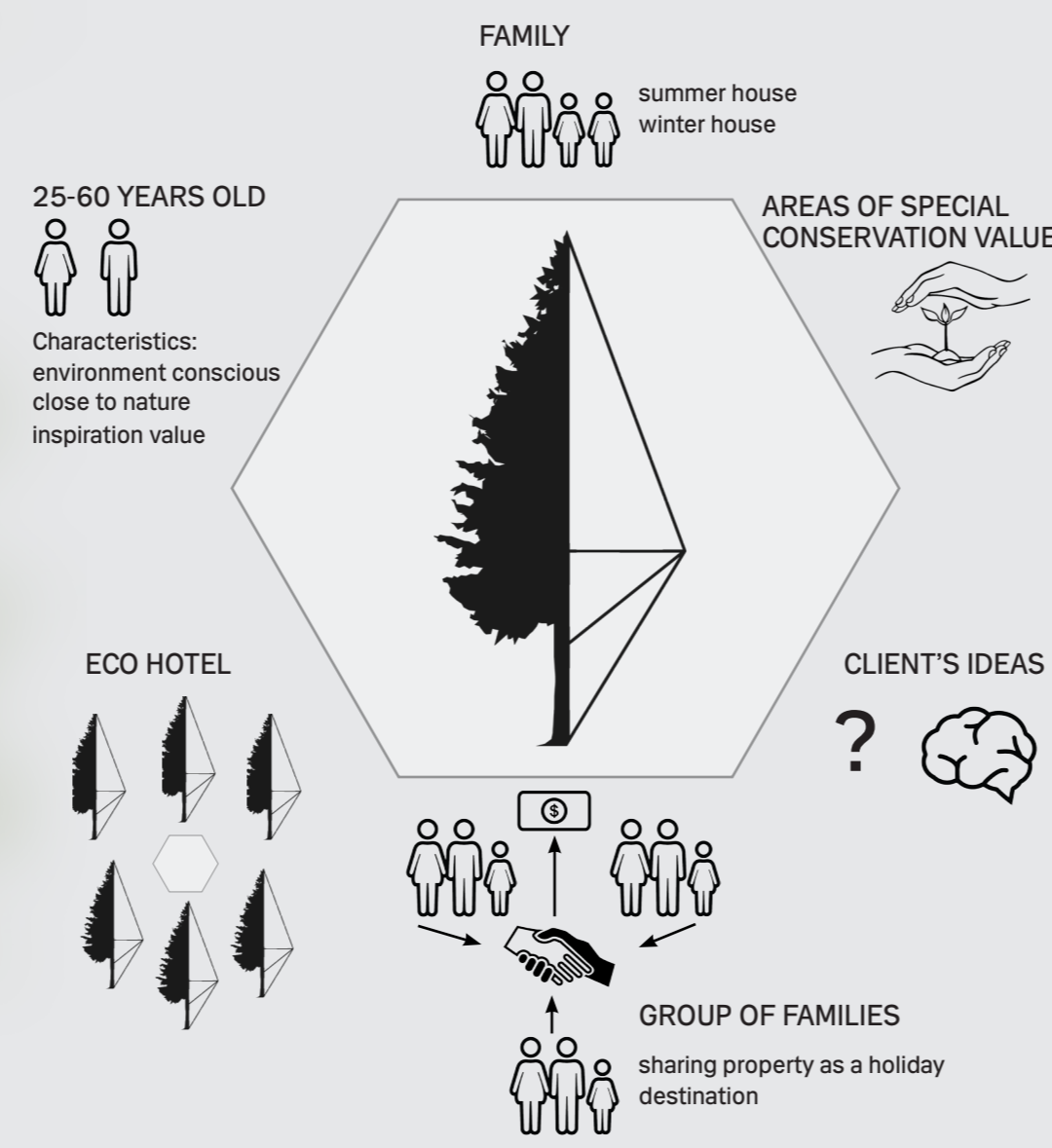
SCALE 1:100 00

CENTER NEXT TO THE EXISTING ROAD:

- Parking spaces/ Bus stop/ Renting bikes/



TARGET GROUP /



N127-2



example of small estate / TEMPERATE BROADLEAF

UNIT ANALYSIS /

ENERGY / INDOOR CLIMATE

The aim was to design a self-sufficient unit that would not require any connection to the local technical infrastructure. Thereby, the unit could be placed anywhere in the world without disturbing the local environment. All of the newest and sustainable technologies from the energetic industry were implemented into this project in order to save and produce as much energy as possible. In case of any technical troubles, emergency energy source is provided.

NOT ONLY RECYCLEABLE BUT CRADLE TO CLADLE



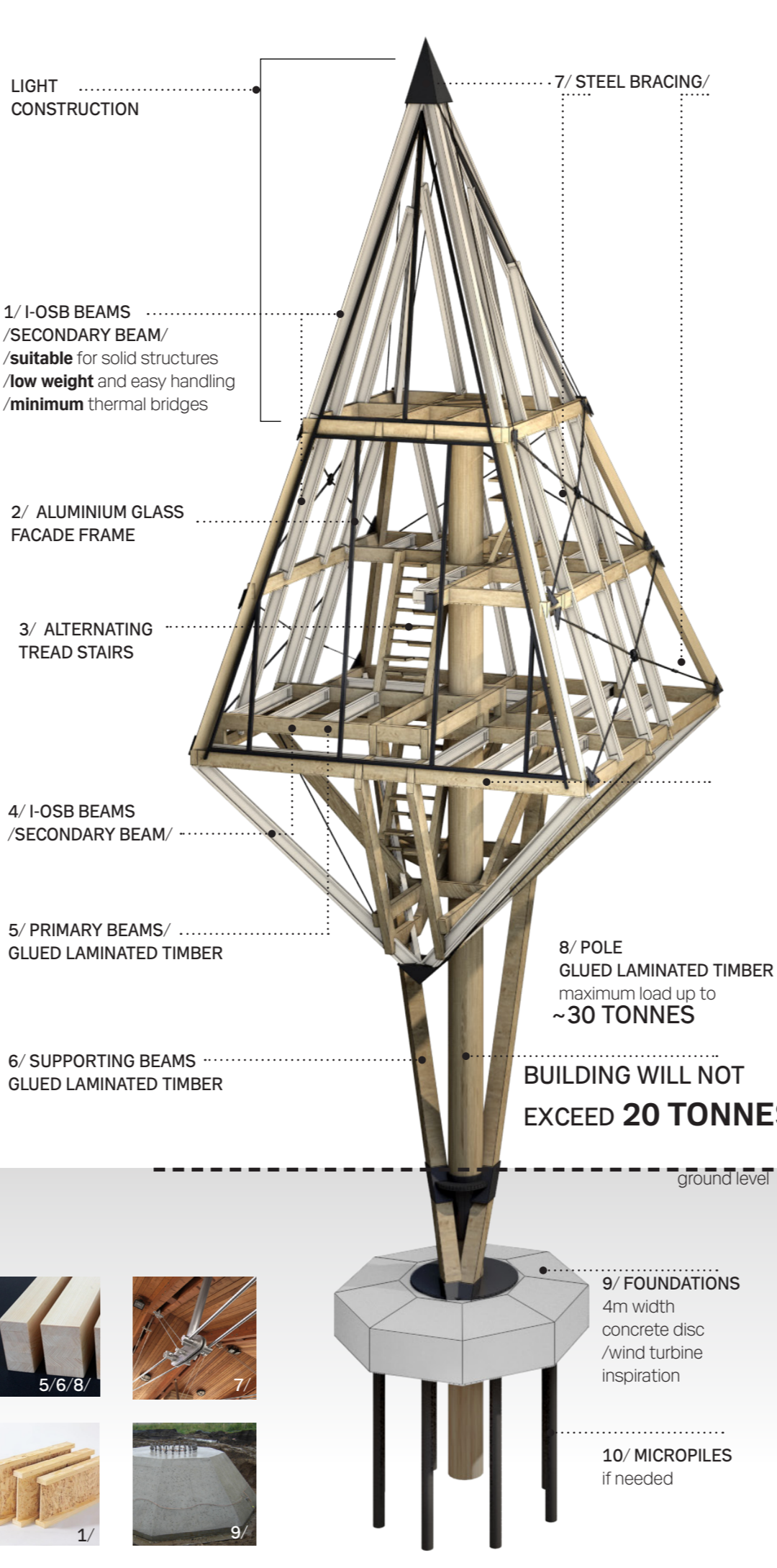
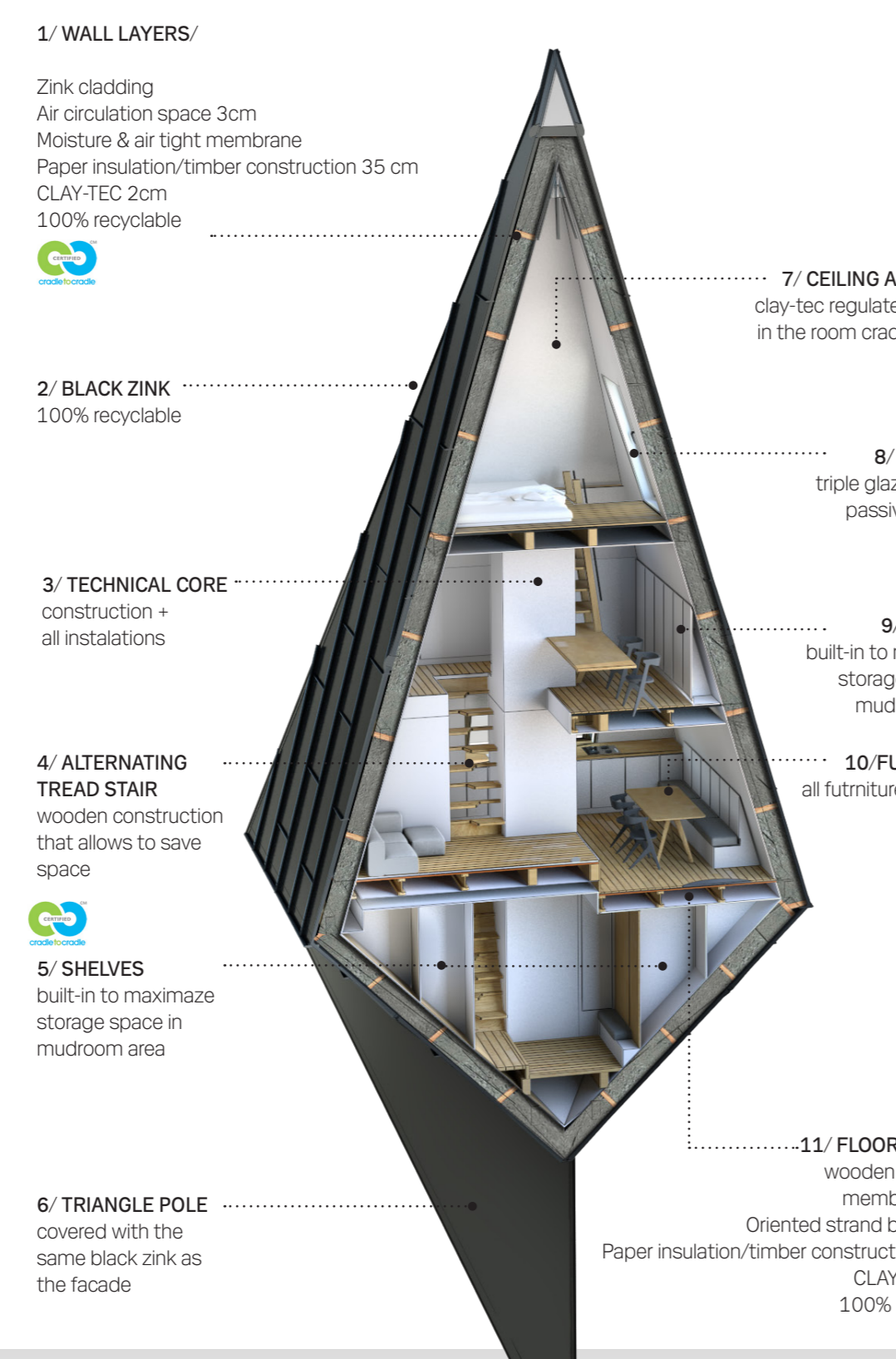
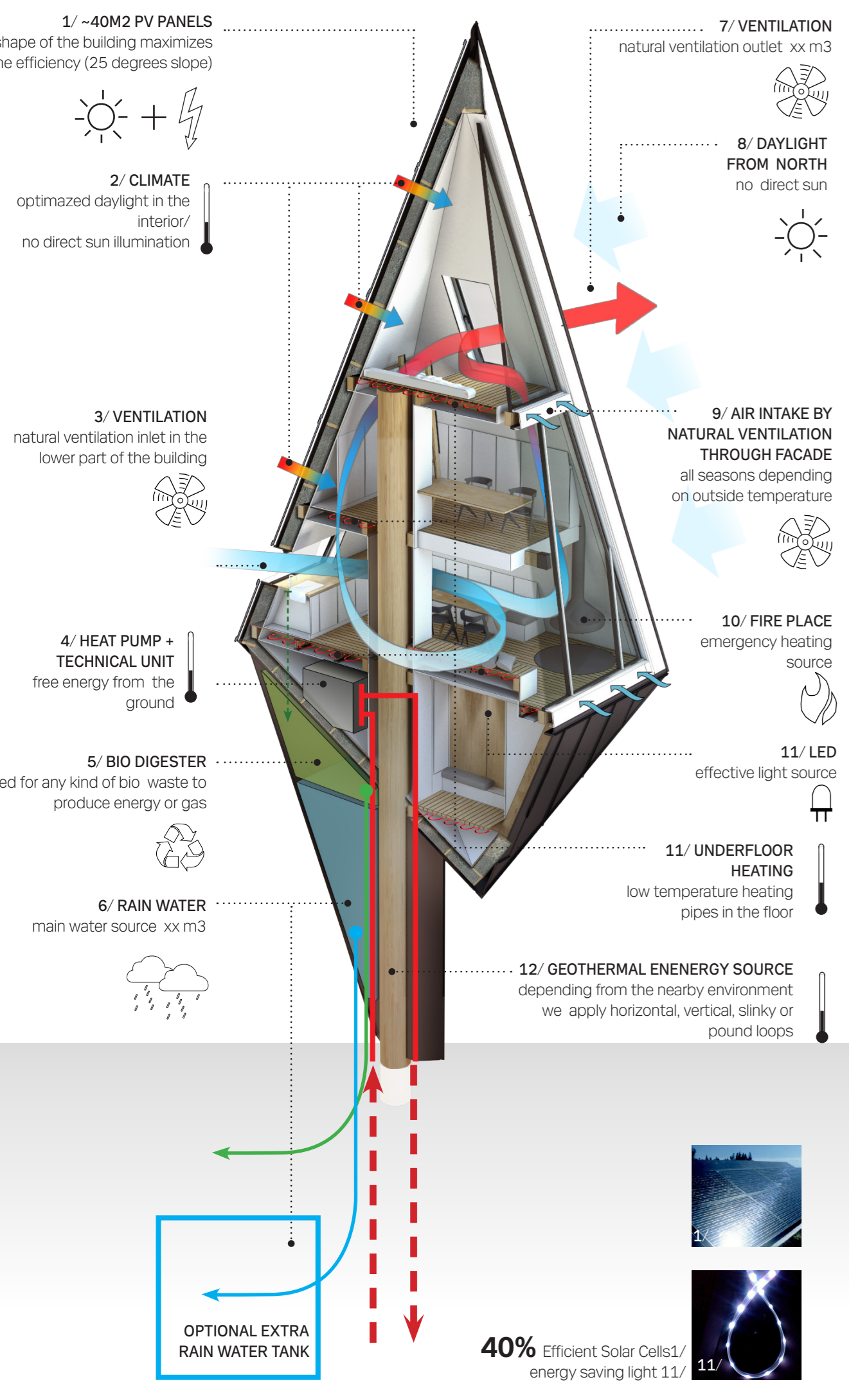
Nordic European countries are the leaders in sustainable approach towards environment-friendly resources. Few years ago they have created new standard of Eco materials and marked them with "Cradle to cradle" certificate. The difference between other materials and C2C certified is that there must be a possibility not only to recycle the material in 100% but also to factorize it. In this way they can be used in every possible way once again.

In other words, these are materials that from a biological sense of meaning are no different from for example a tree or other biological organism.

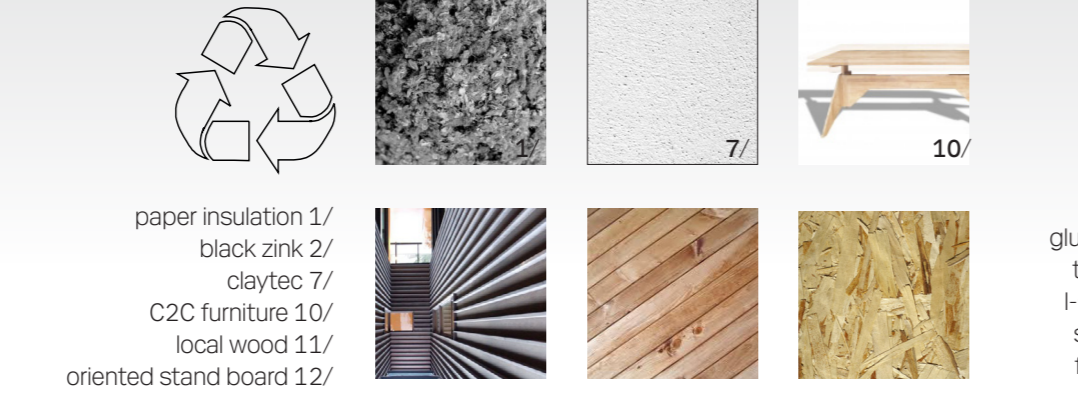
To create sustainable construction recycling is not enough. We must think cradle to cradle!

FRAMING LIGHT CONSTRUCTION

From the beginning the idea was to create a construction on a single pole with no footprint on nature. As challenging as it sounds it became even more difficult when the decision of not using concrete (toxic cement) or energy consuming steel was made. In this way the only solution was to come up with the wooden structure that could resist wind and gravity force. To achieve this kind of structure glued laminated wood was used for primary beams, columns and very light, but stiff I-OSB beams as a secondary, supporting construction.



REUSE APPROACH



example of single unit in TAIGA

example of estate in TEMPERATE CONIFEROUS FOREST

single unit in MIXED FOREST