BLOOM

"(...) opening and closing of blossoms and the folding and unfolding of leaves (is called) nastic movements. Some flowers respond to day length. They open and close at different times of day depending on the hours of available sunlight. Other, in response to weather. This includes humidity, temperature, sunniness/cloudiness. Some open and close at the same time each day." https://journeynorth.org

Bloom is a power generating, adaptable, art installation that is inspired by those rules of nature. Same like flowers, it transforms and adapts following daylight and the cycles of the earth. It works like a flower bud that closes and opens to the public and there are number of reasons behind this transformation.

Opening adjusts solar panels tilt, located on the outer layer, according to the sun position to generate optimum amount of clean energy. Same as flowers or plant leaves that are reaching for the optimum amount of sunlight.
On the other hand, it works as an element of surprise, revealing hidden, inner public space that users can discover and interact with. This flexible shaded outdoor "room" could be filled with various social functions from lunge area to market stand. Additionally, it will be filled with selected plants that will purify the air and create the atmosphere of hidden winter garden.

Finally, when closing during the night or colder seasons, it protects physically and thermally its inner functions: public space/winter garden and compact greenhouse located in the upper module. Greenhouse, beside its productive role, will be visible from the outside, building knowledge and common understanding about the importance of sustainable and space efficient agriculture.

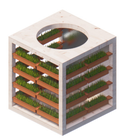
This transformational nature-like "behavior" changes our relation to public space and invites us to interact with it. In a subconscious way, it builds knowledge and awareness about more sustainable life.

Modularity

prefab, modular, wooden structure with low impact fundations

Dualism

double social function
agriculture + public space/winter garden



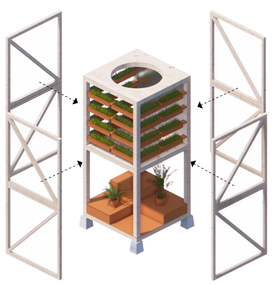
Greenhouse

+

Public space

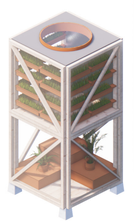
Tradition

outer wall structure as a refrence to the pattern of traditonal german timber walls technology



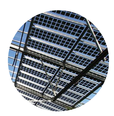
Protection

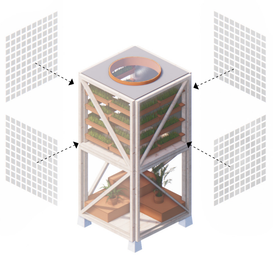
recycalble polycarbonate protection for outside walls and inner layer for thermal protection & partial transparency



Energy

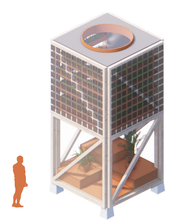
semi-transaprent solar cells on the upper module generate clean energy & allows sunlight to pass through





Mystery

closed structure creates atmosphere of mystery and curisoity what's hidden inside each module



Adaptability

walls fold to adapt solar panels tilt to the best possible sun angle while revealing public space below