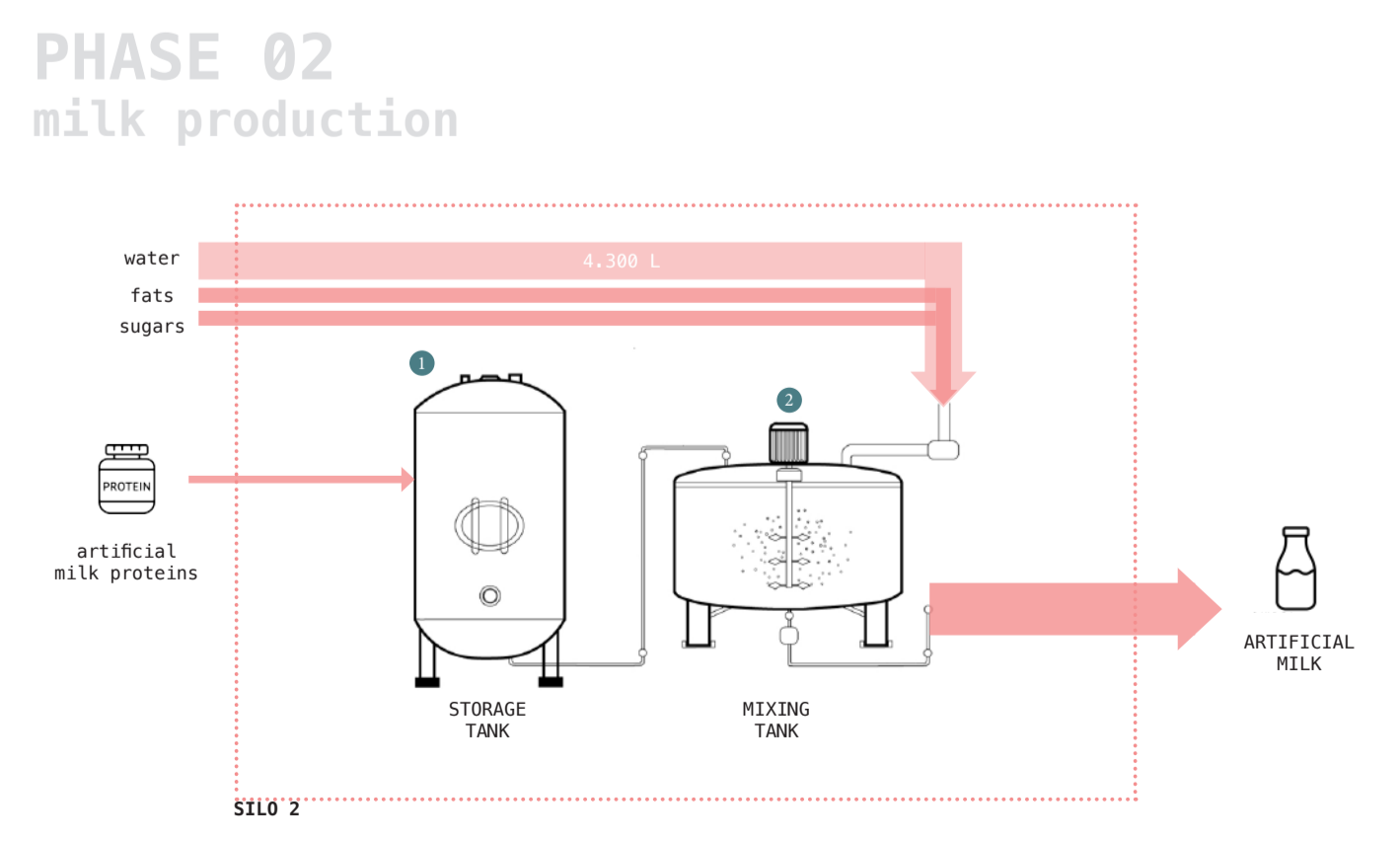
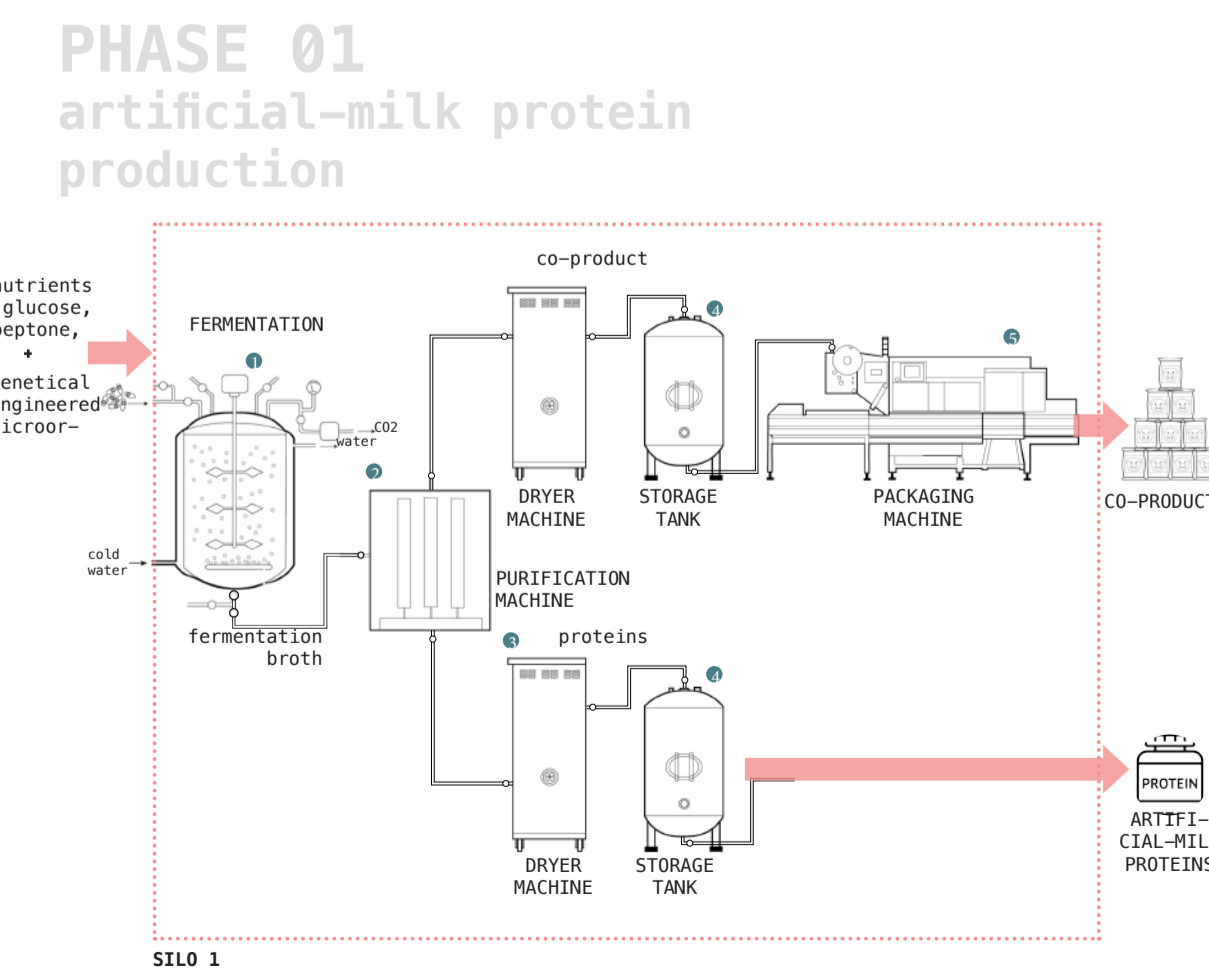
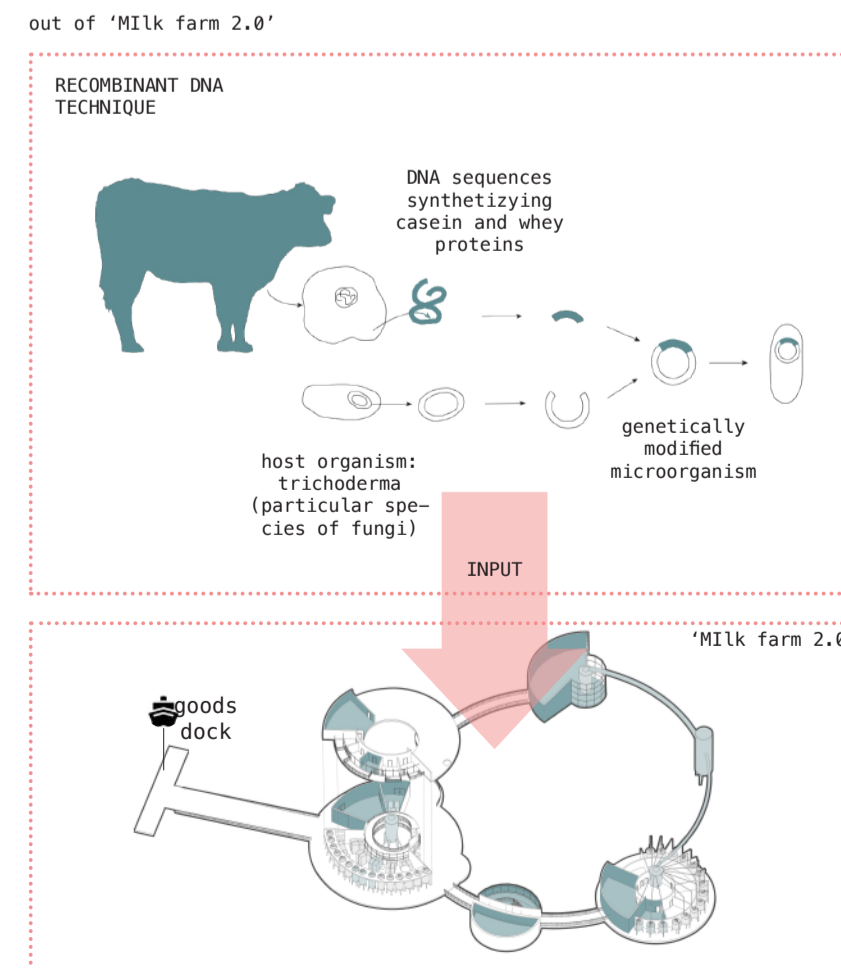
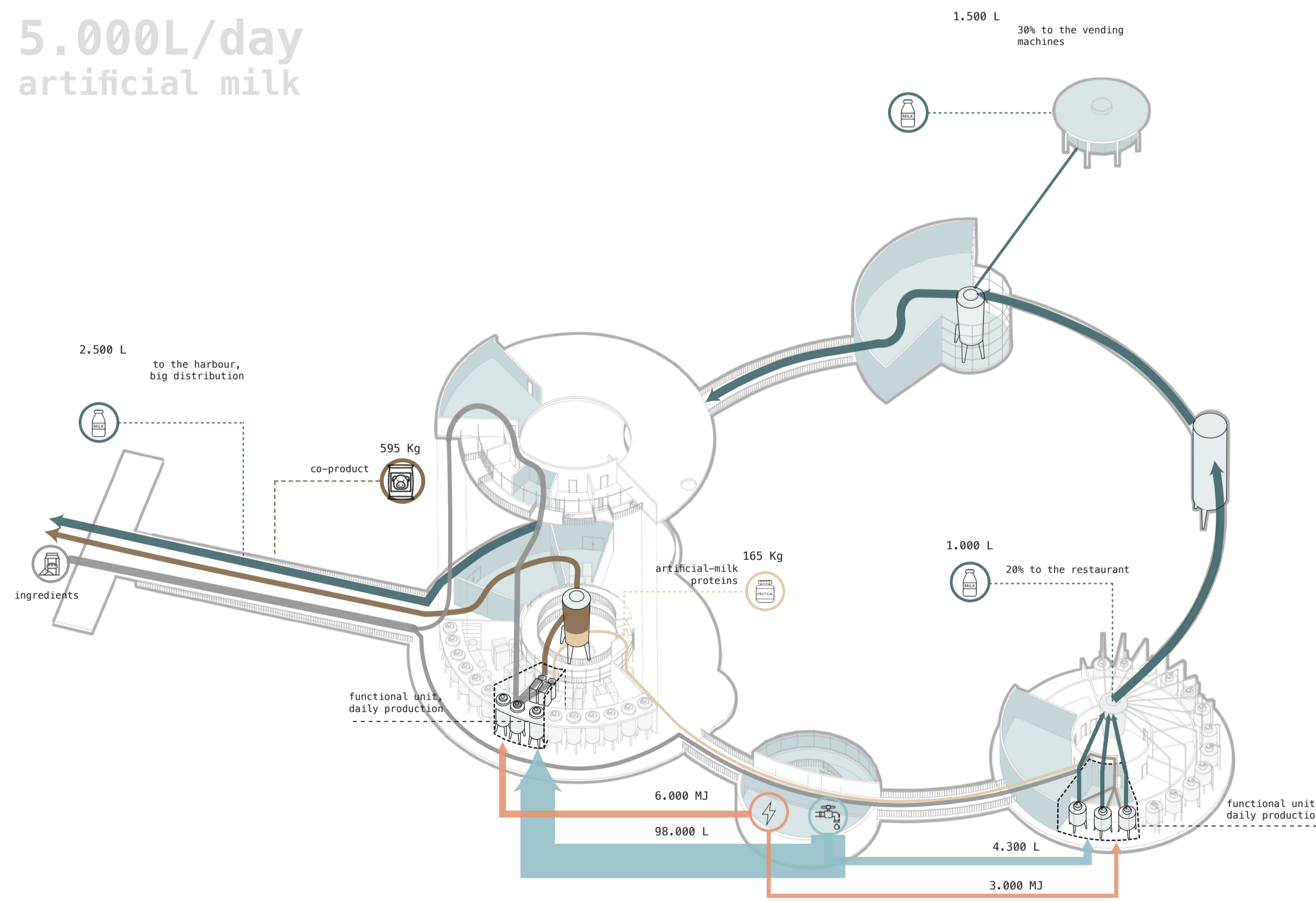
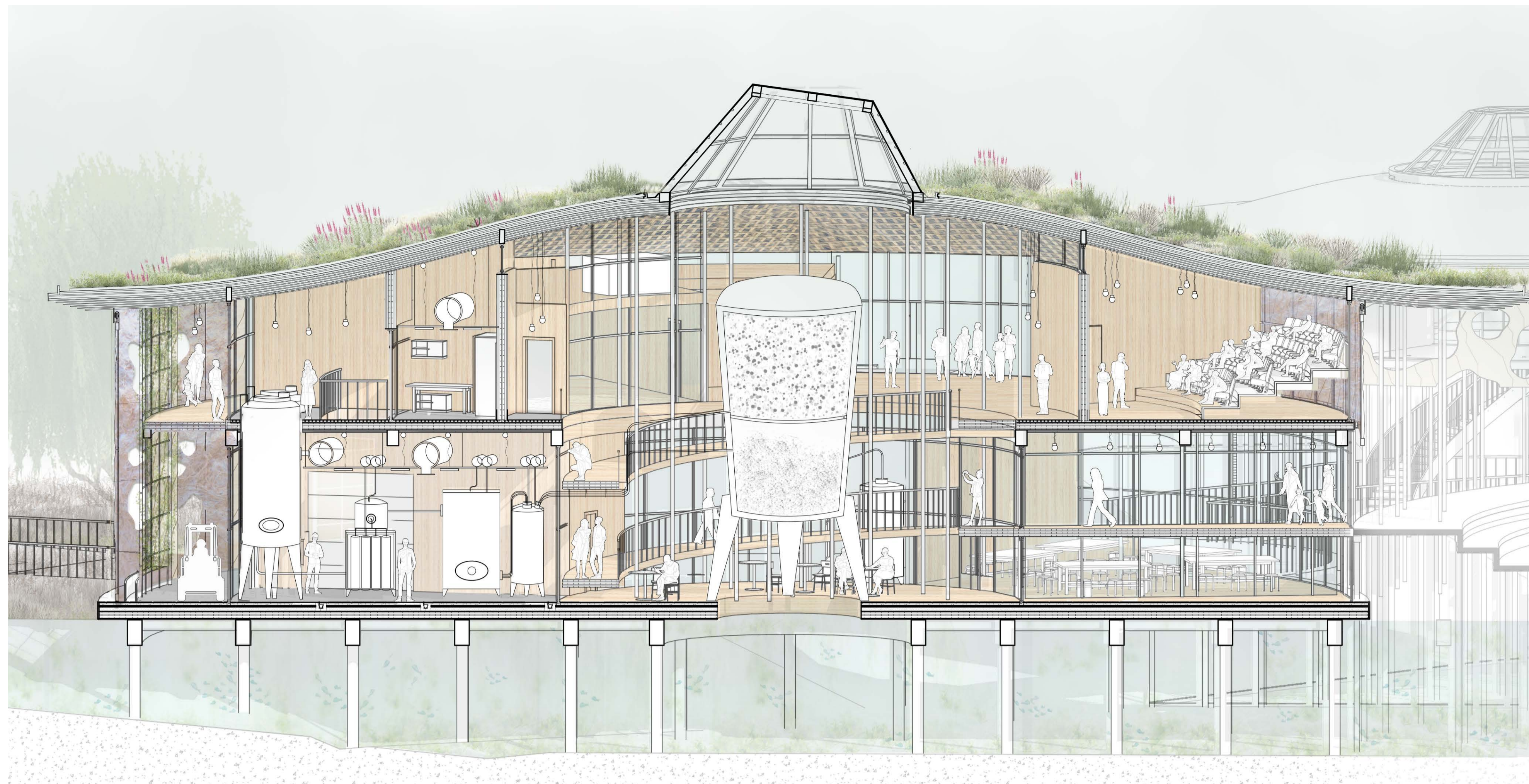
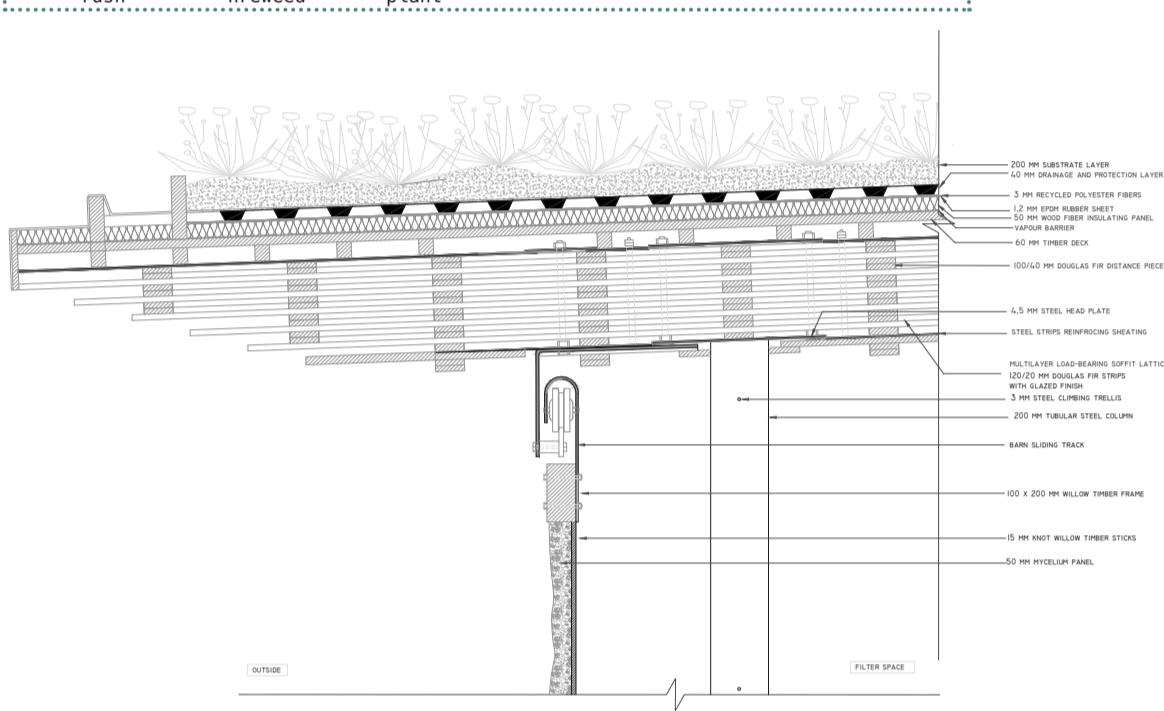
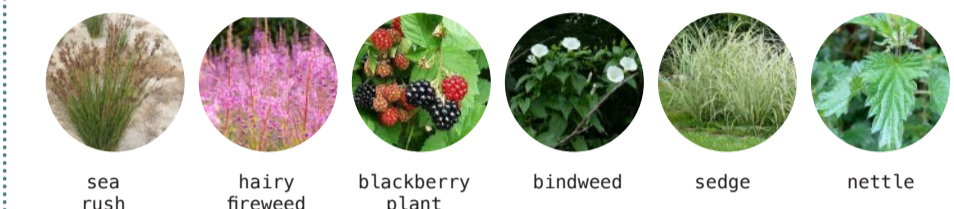
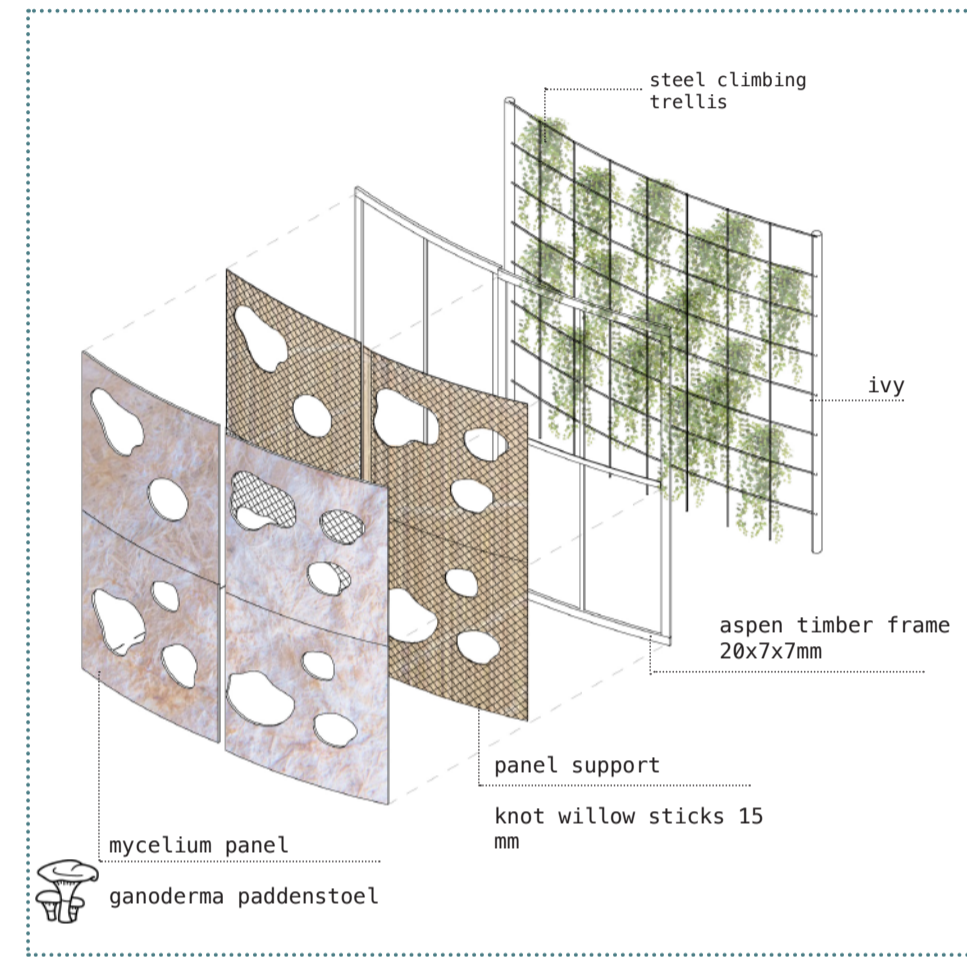
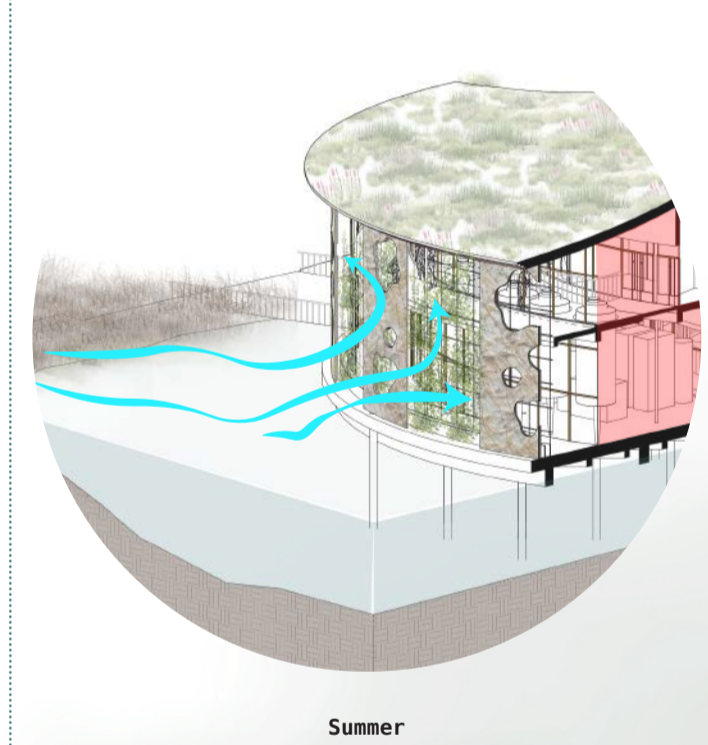


5.000L/day artificial milk

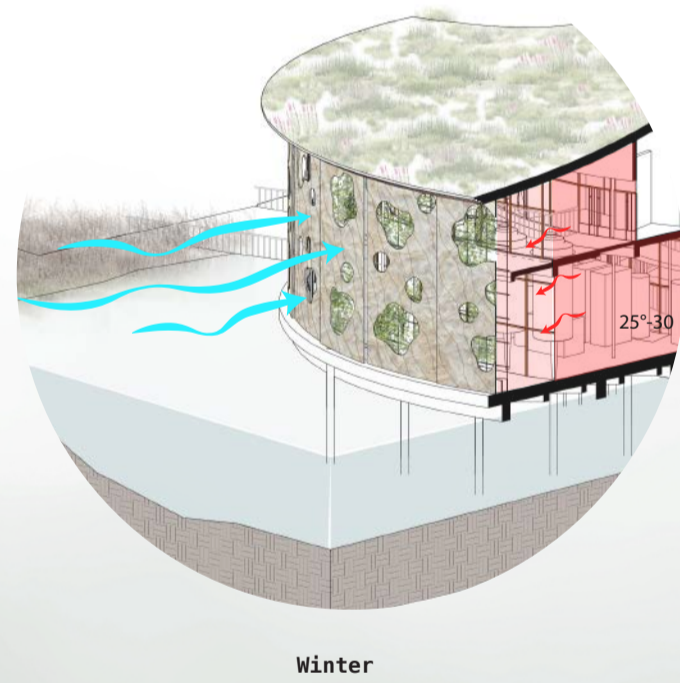




CLIMATE ADAPTATION IN FACADE

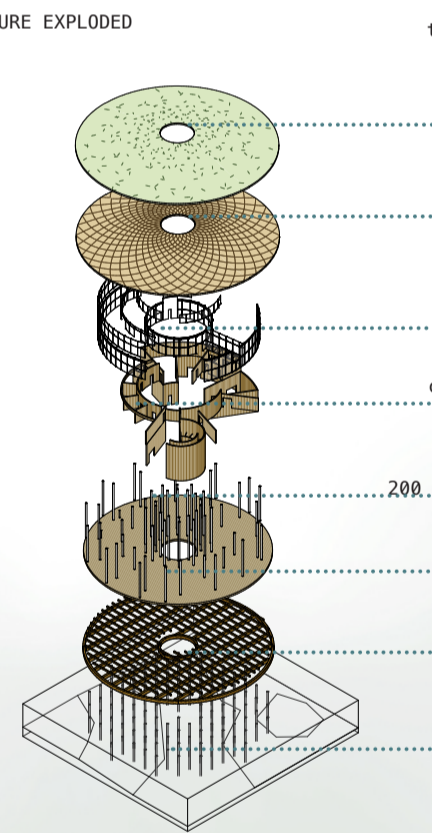


The sliding mycelium panels open up and allow the natural ventilation of the filter space, constantly heated by the fermentation room. The presence of the water of the polder helps further to mitigate the climate, cooling up the wind during the summer season. Moreover the green facade creates a sun screen and prevents the heat to enter the filter space while allows light to filter.

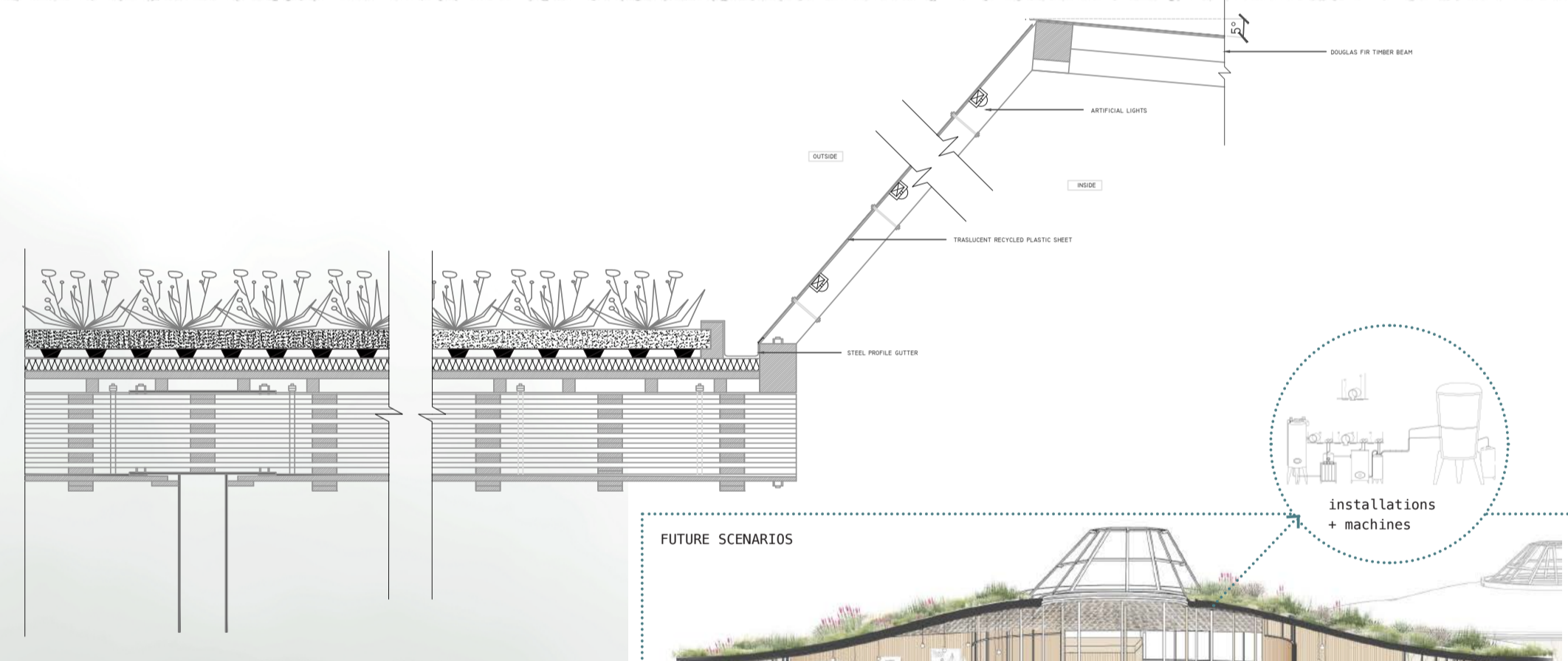
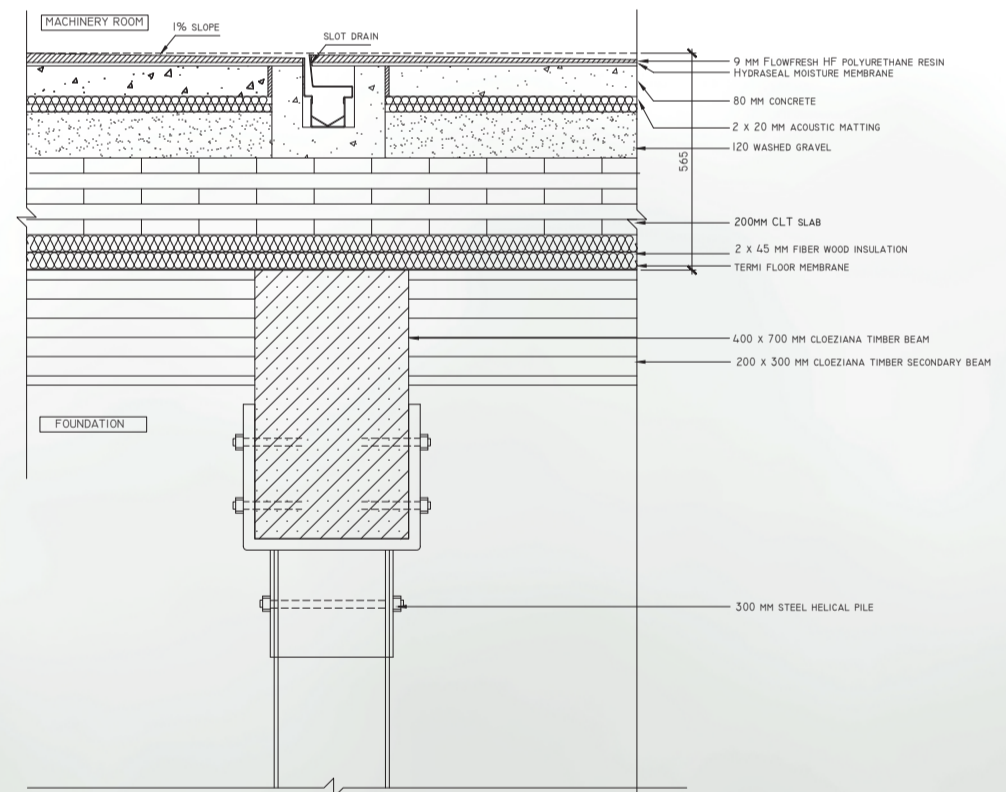


The mycelium panels act like wind shields during the winter season although the proximity of water helps to mitigate the climate, reducing the thermal excursion between day/night. Moreover the mycelium panels, thanks to their insulation properties, help to keep the heating produced by the fermentation room inside of the filter space that is passively heated. The latter becomes a climate comfortable space for the visitors of Milk farm 2.0. The porous facade allows the light to filter also during the winter season.

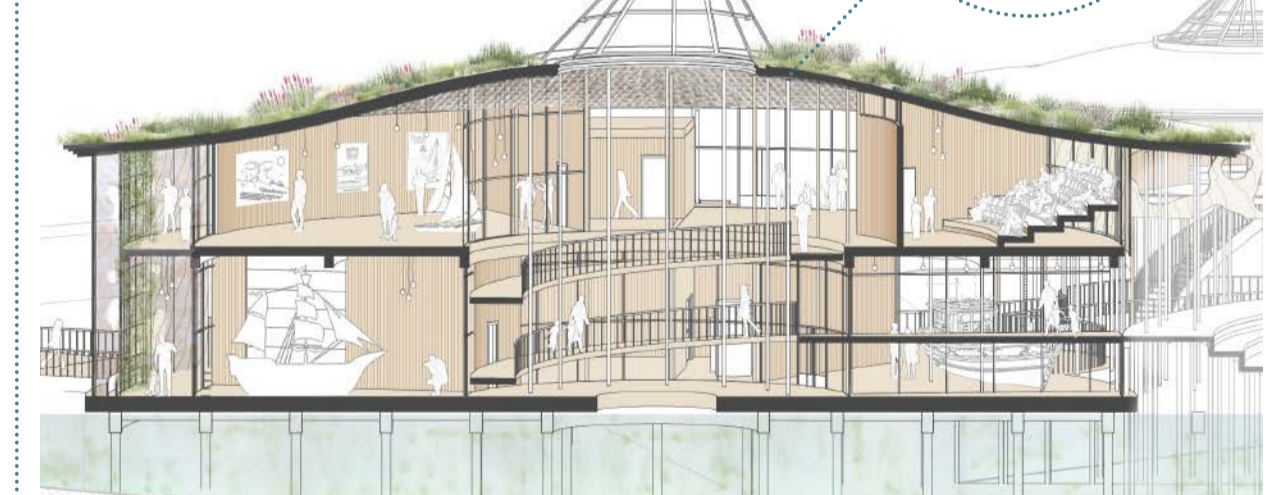
STRUCTURE EXPLODED



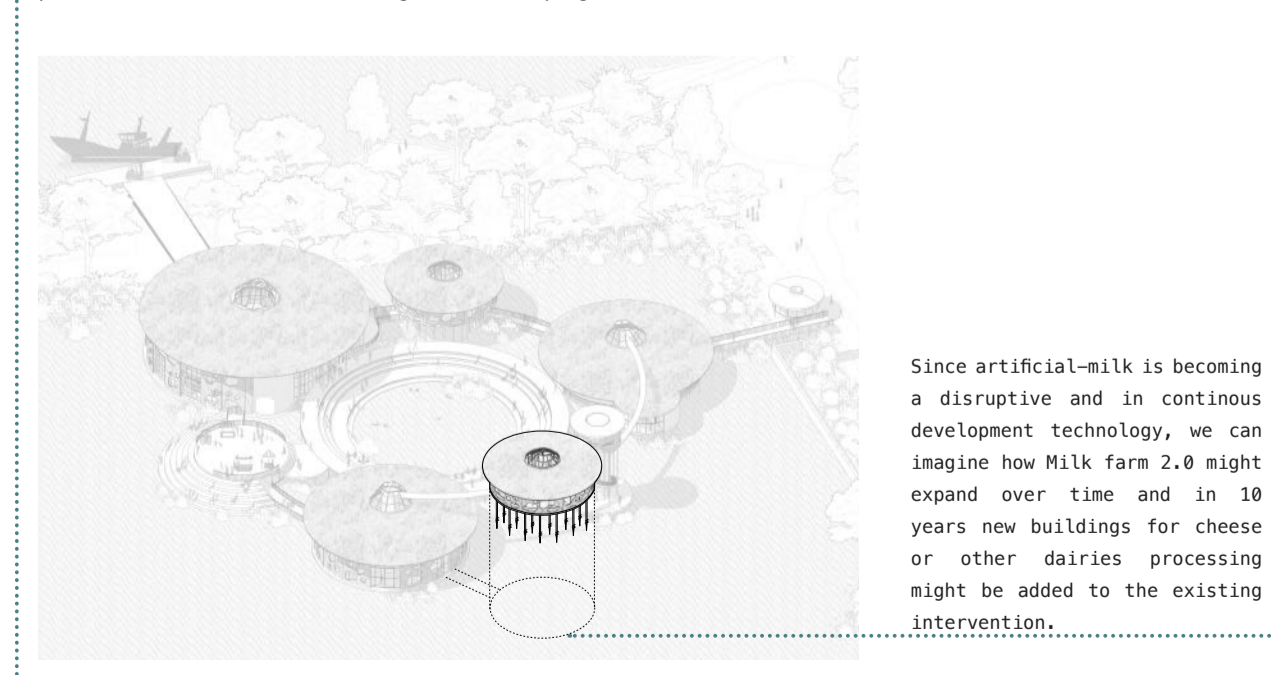
- timber + recycled plastic lantern
- green roof
- timber lattice
- curtain walls
- curved CLT panels
- 200mm steel columns
- CLT floor
- cloeziana timber
- Screw piles helical steel piles 350 mm



FUTURE SCENARIOS



The structure allows a future change in the programme of the building. Installations and machines might be easily removed from the building and re-used in another artificial milk refinery, while the clt internal partitions can be moved according to the new programme.



Since artificial-milk is becoming a disruptive and in continuous development technology, we can imagine how Milk farm 2.0 might expand over time and in 10 years new buildings for cheese or other dairies processing might be added to the existing intervention.



BLENDING WITH THE CONTEXT - the south elevation 1:150