

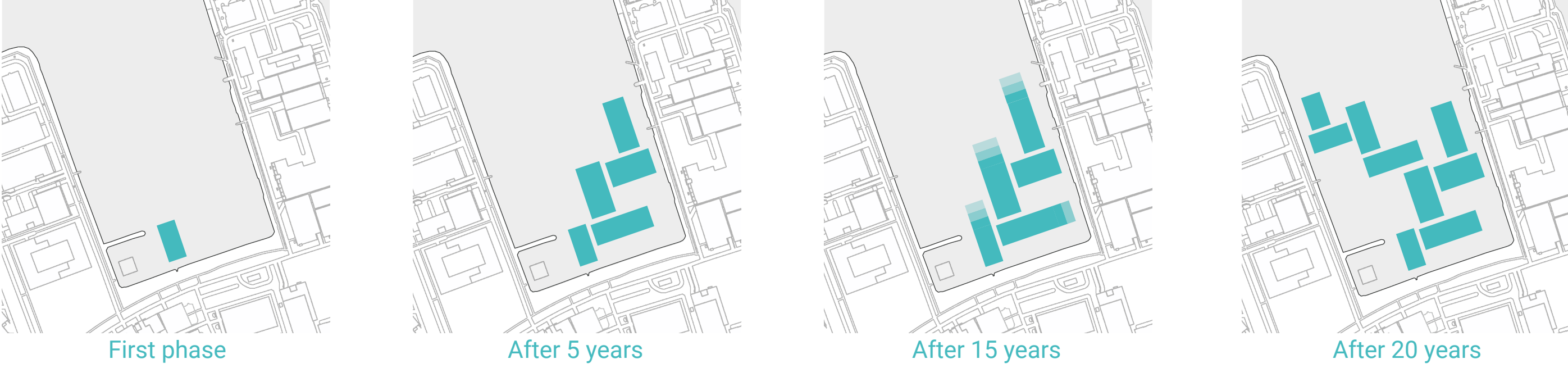


Floating ecosystem view

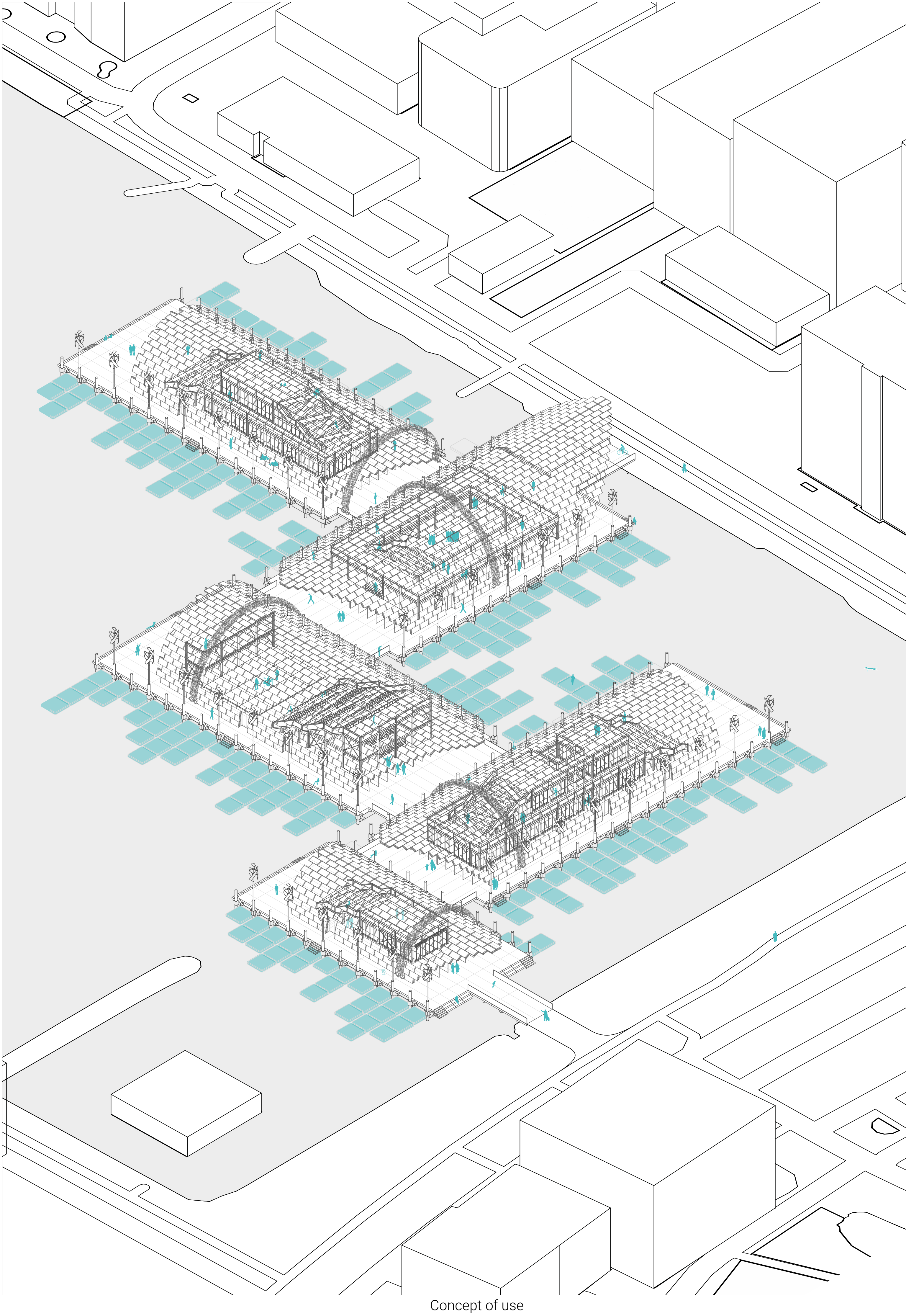
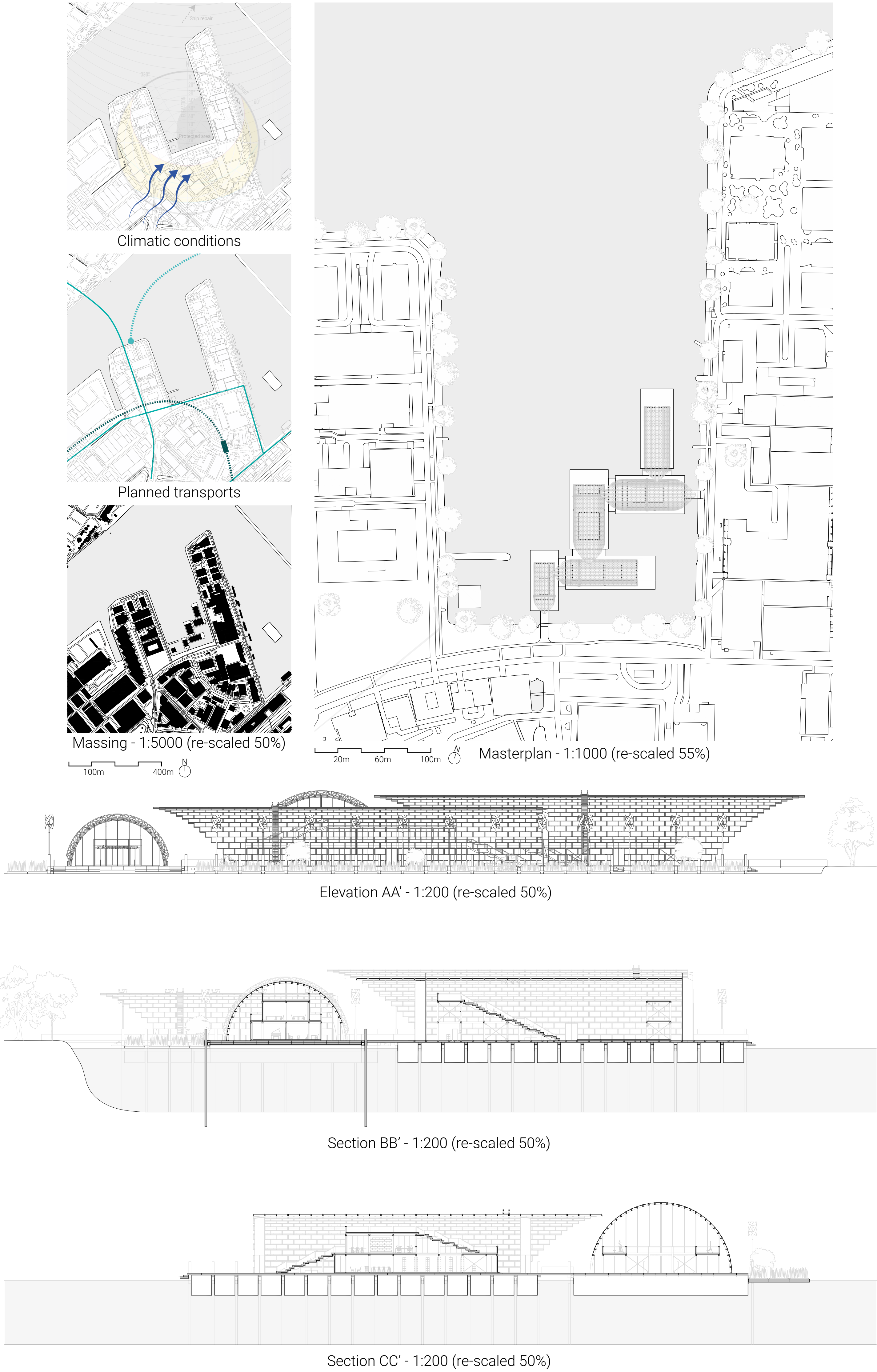
The project investigates the possibilities of using **bio-based materials** sourced from **local aquatic environments** for all parts of a **floating building**. The design of a culture hub for the future community of Amsterdam Haven Stad addresses the pollution and lack of biodiversity in the industrial port of Amsterdam by producing the building materials in a **regenerative process**.

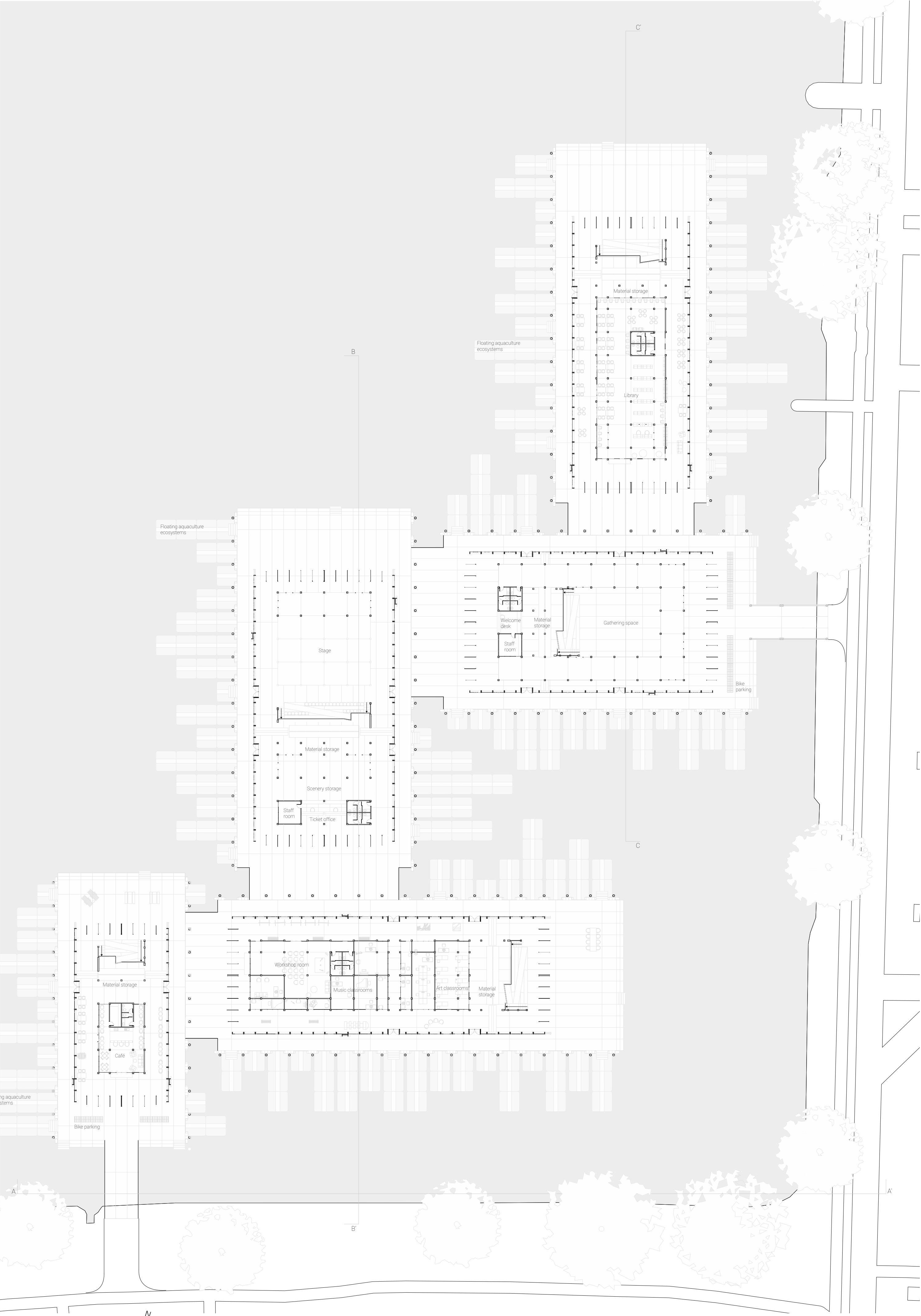
The materials' **life-cycle** is rethought by linking the plants' cultivation cycle and the materials' lifespan in a new **double-loop** system. It considers the floating building as a constantly evolving and maintained entity. A **computational analysis** framework allows to evaluate the appropriate area for each material to grow on, in order to supply the needs of the building for the **construction and replacements**.

Modularity is at the centre of the structural concept, for all building elements, from the floating platform to the roof skeleton and floating ecosystems. This allows the building parts to be **maintained and replaced** at the end of their use. **Community building** is made possible through the **prefabrication** of the different pieces and ease of assembly of the structural elements.

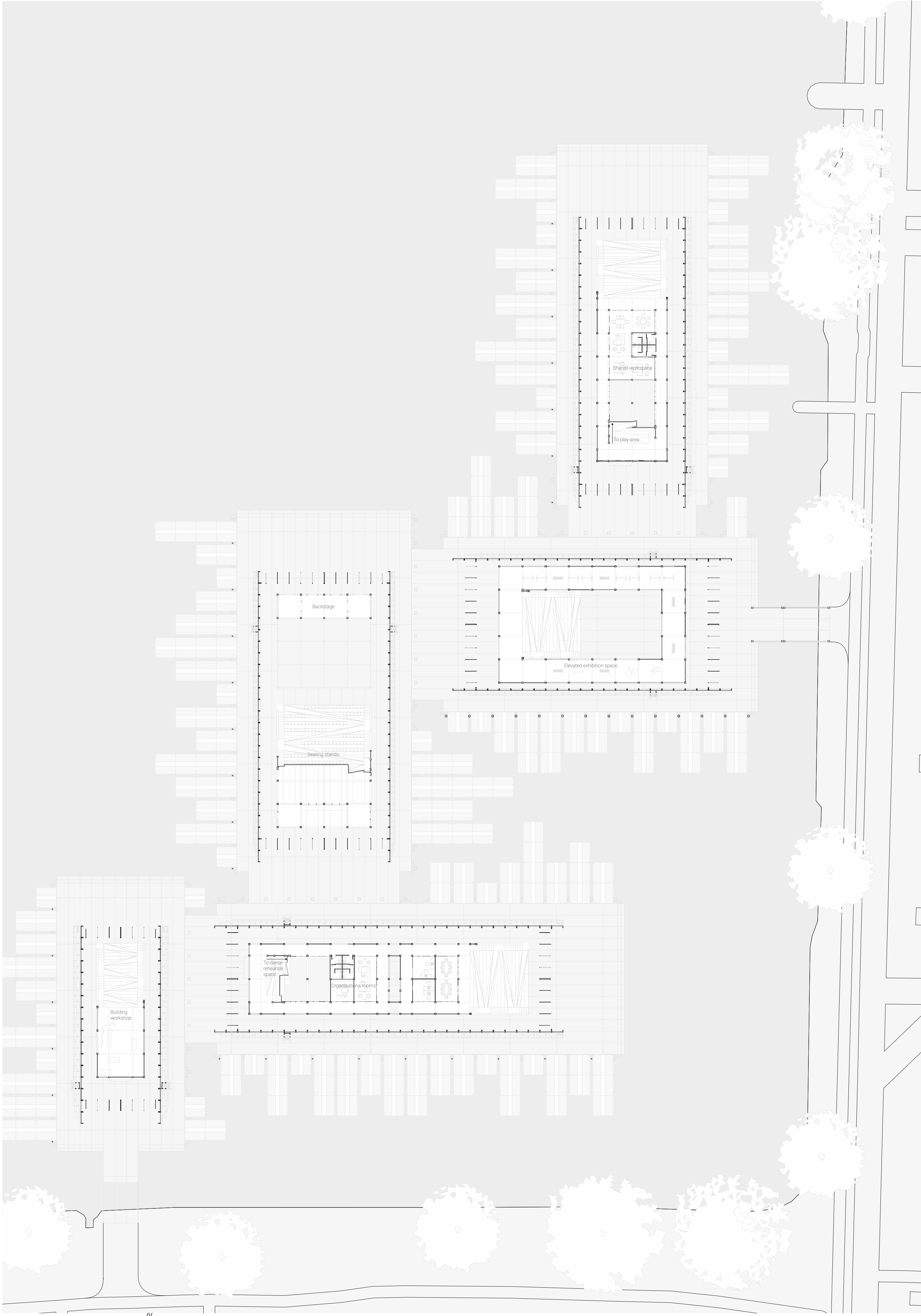


Adaptability & expandability

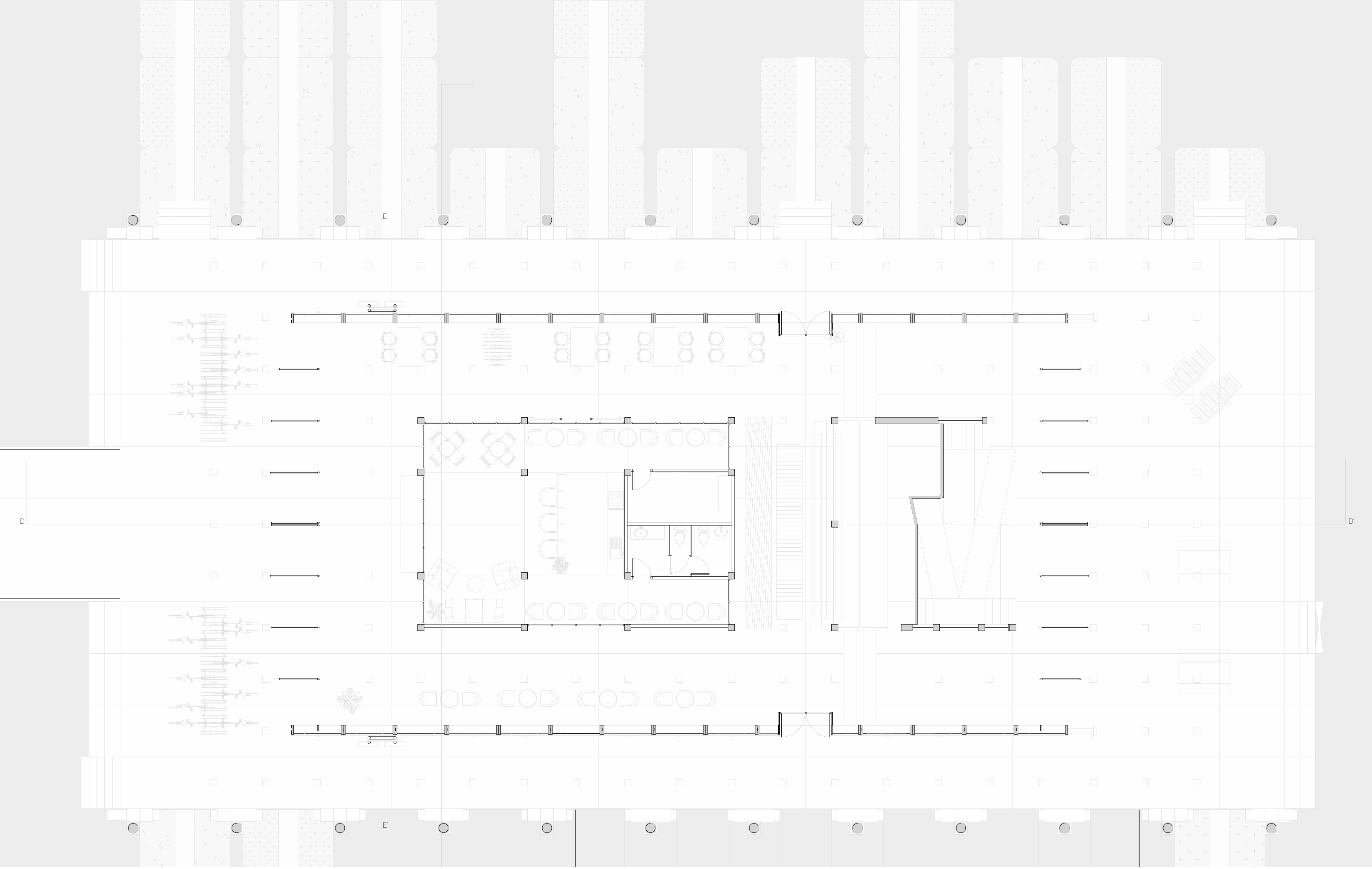




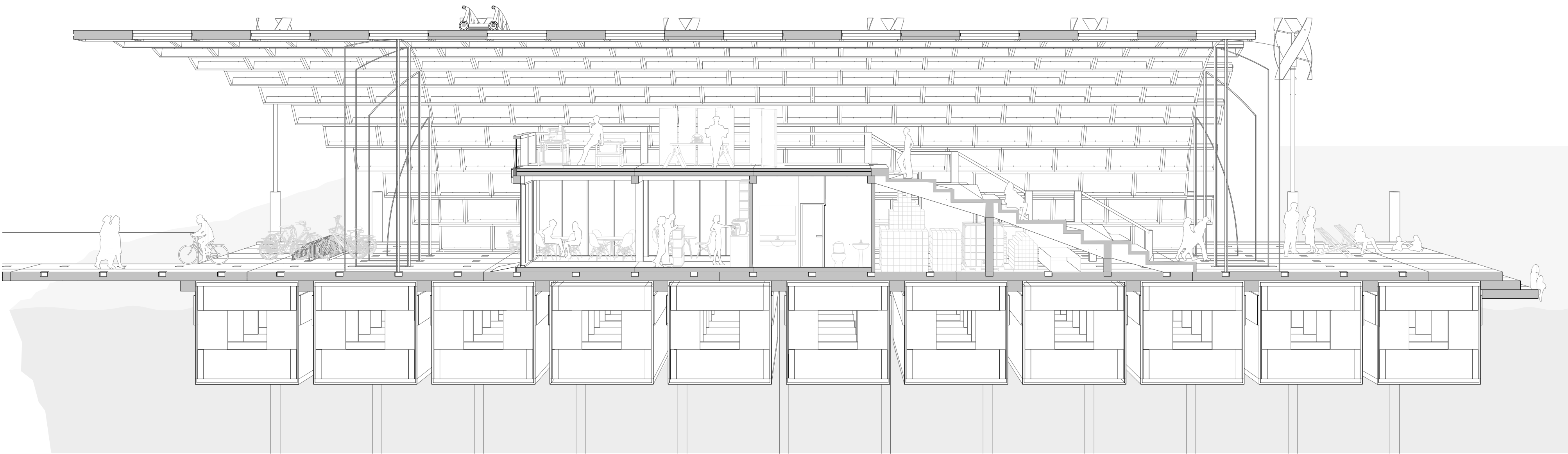
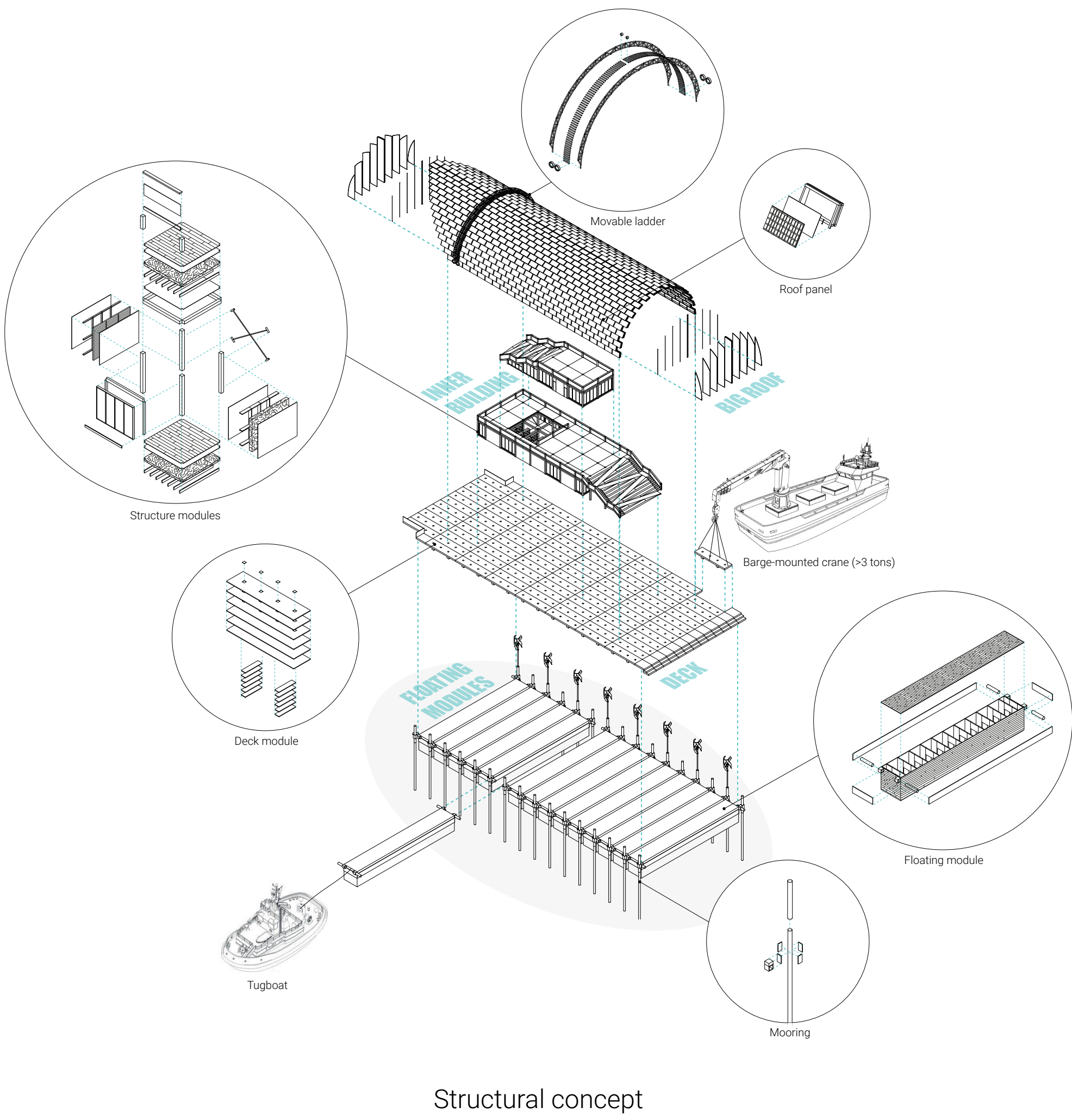
Ground Floor plan - 1:200 (re-scaled 50%)



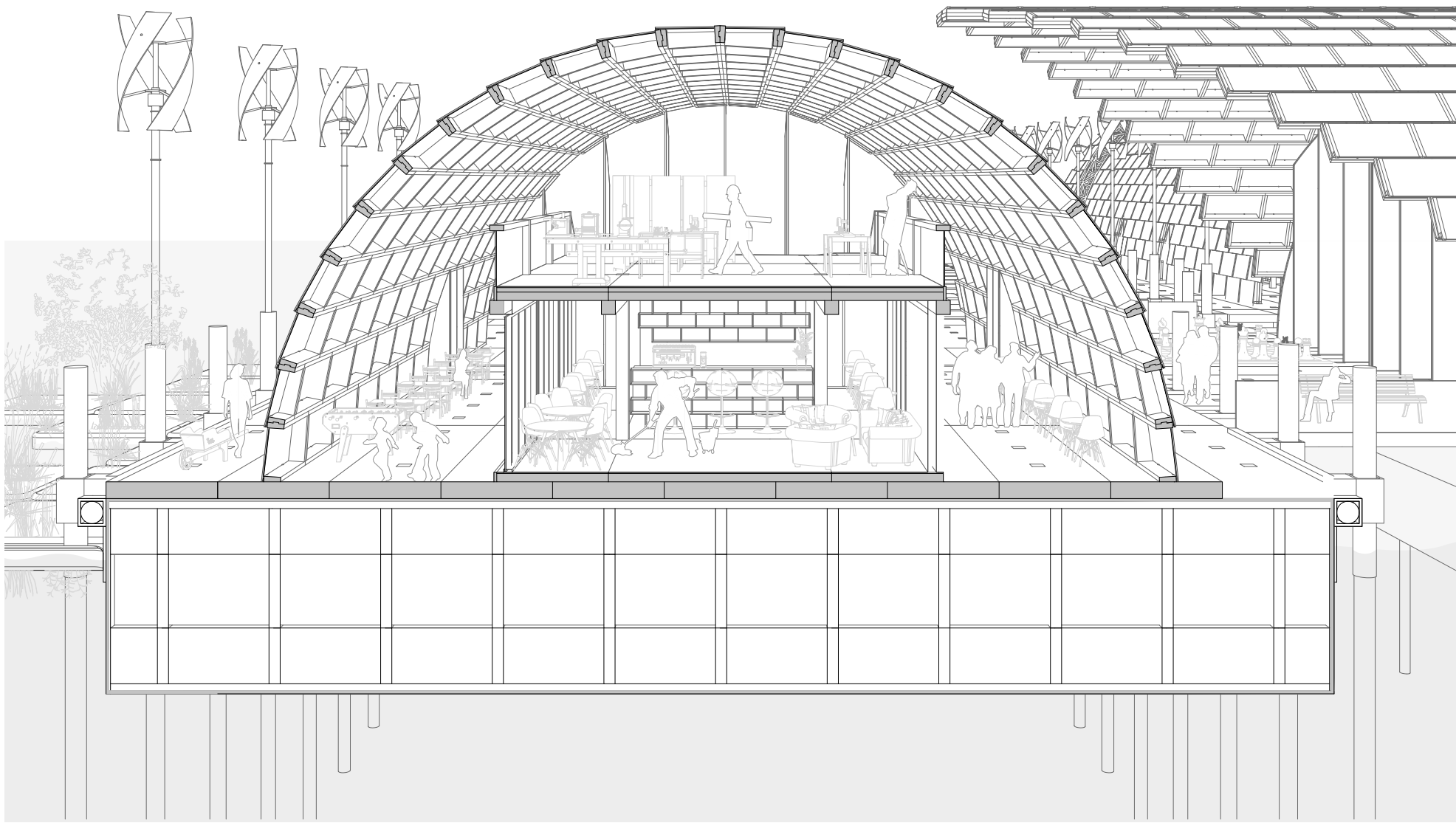
First Floor plan - 1:200 (re-scaled 50%)



Zoom-in plan - 1:50 (re-scaled 50%)



Section DD'- 1:50 (re-scaled 50%)



Section EE'- 1:50 (re-scaled 50%)

