Cattleya

**Intervention Nodes**
This is the nodes of intervention where the patterns are intended to be implanted and shape the organization.

**Amplification Areas**
The areas are considered to be the follow-up tips at the horizon of the area, linked with the nodes represented as being crucial buffers in the middle of the intervention and the relative environment of the desert.

**Protected Areas**
Conservation activities for local flora and fauna, without any intervention, in order to protect the fragile ecosystem of the desert.

**Vision**
The shape is inspired by desert geometries that exist in nature. The matriarchal arrangements in the desert create a sense of order and beauty. The leaves display a helical and symmetrical pattern in a unique flower form, resembling a serpent. Therefore, we've tried to deviate the sustainable design developing a context-based strategy, a closer that involves geometry, functionality, and public interaction.

**Shape**
Starting from the helical shape of the leaves, we thought about a structure where each element followed a helical pattern, where each element is singular, and the general shape reminds the nature of the Brancusi egg project.

**Function**
The principal aim of the design is to coordinate and collect humidity from the environment in order to project it in the form of a water fountain or a public interactive spot. It is possible to reach the top of the structure and look at the horizon for a different perspective of depth in the shape.

**Optimization**
The design process underwent an improvement considering sustainable techniques that could reduce costs and make the structure more attractive. It is optimal for geotextile, structural, transport, and purpose. The final design brought the structure compromise between constructability, fabrication, and shape.