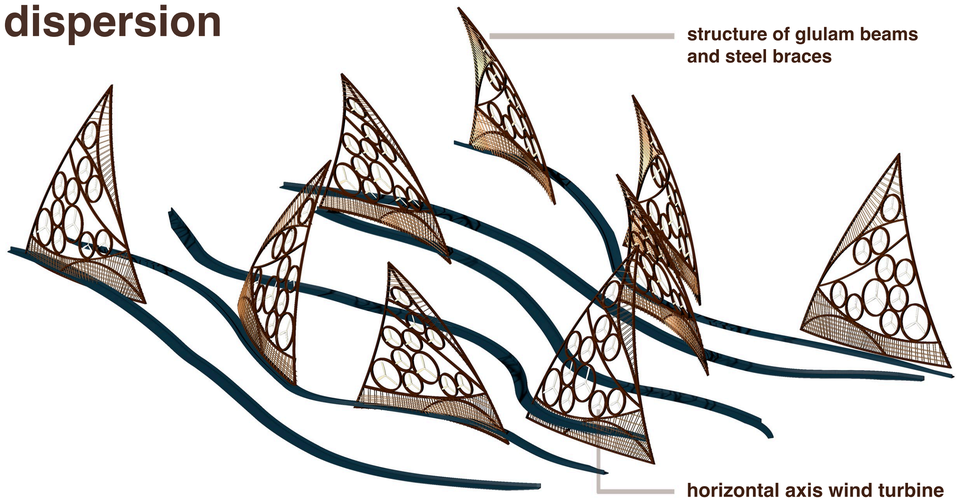
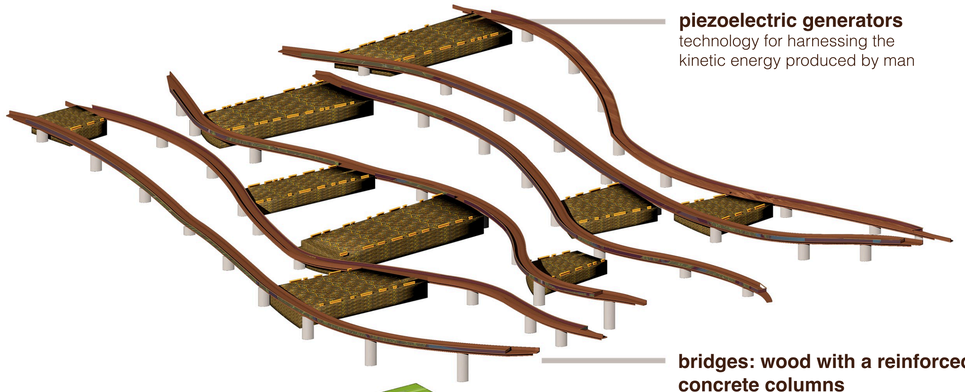
FLUXUS
in dispersion



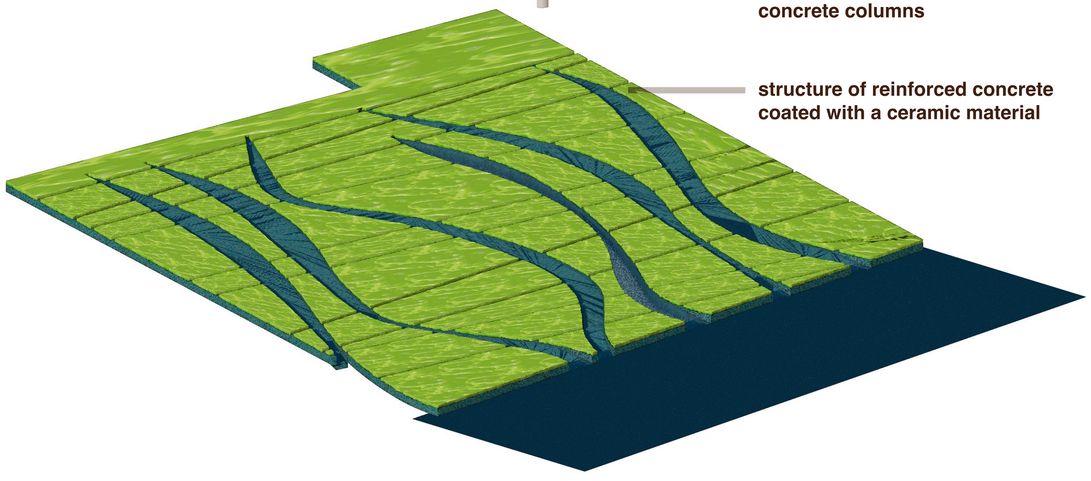
structure of glulam beams and steel braces

horizontal axis wind turbine



piezoelectric generators
technology for harnessing the kinetic energy produced by man

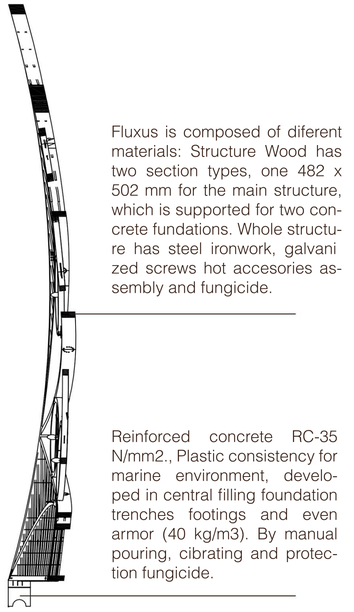
bridges: wood with a reinforced concrete columns



structure of reinforced concrete coated with a ceramic material

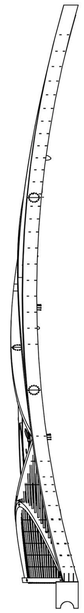
Each of the nine sails of the intervention has an equilateral triangle 50 meters from side. They are formed by a structure of glulam beams and steel braces. This combination takes advantage of two structural behaviors as a "harp" in both materials creating a claim on wood with straps. We make all purchases greater resistance and in turn, using this type of structure, we allow slight movements in it to dissipate up to 5% of the stresses and vibrations from the turbines. We get the optimum use of each material by creating an efficient combination of both materials. All this sets paths anchored by galvanized steel plates embedded in the wooden structure and the foundation concrete footings. Each sail has on its surface two wind turbines of 9 m. diameter and nine of 6 m. manufactured in carbon fiber. The structure of the sail has a linear lighting using flexible tube led. The rest of the surface is covered by climbing plants.

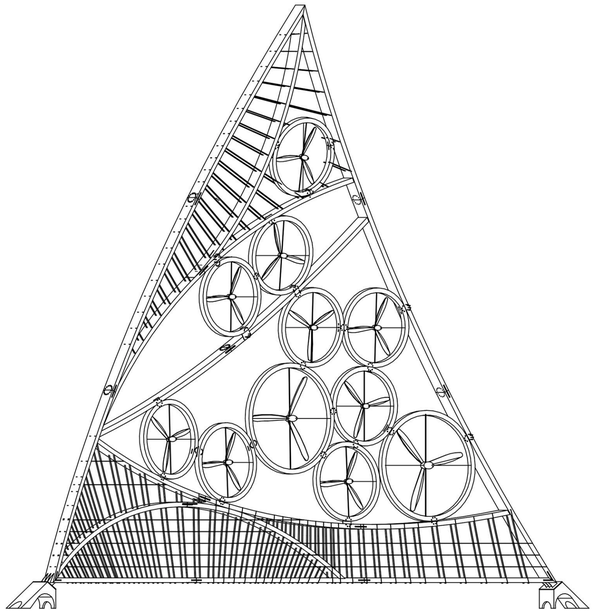
Fissures of the six channels, filled with sea water, have a structure of reinforced concrete and are coated with a ceramic material that facilitates its use and maintenance. The six bridges that cross the intervention have a constant width of 3 m., are wood with a reinforced concrete columns and railings in glass and steel. The tracks are elevated above the ground with the leftover material from the excavations and have a total area of 4,350 m2 of concrete slab on paved areas that are conditioned with piezoelectric tiles.



Fluxus is composed of diferent materials: Structure Wood has two section types, one 482 x 502 mm for the main structure, which is supported for two concrete fundations. Whole structure has steel ironwork, galvani zed screws hot accesories assembly and fungicide.

Reinforced concrete RC-35 N/mm2., Plastic consistency for marine environment, developed in central filling foundation trenches footings and even armor (40 kg/m3). By manual pouring, cibrating and protection fungicide.





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