

SocialHive  
ATOMA

## GENESI PROGETTUALE - PROJECT GENESIS

The project idea stems from the desire to propose a possible expansion of the City of Lugano which presents itself as the continuation of the existing building on the waters of Lake Ceresio and which can trace a common thread in anticipation of the need for further future development. The intervention involves the creation of floating islands defined by a modular unit with a hexagonal plan whose dimensions have been calculated by taking up the urban scale of some city spaces such as, for example, Piazza Bernardino Luini and Piazza della Riforma. The module is potentially repeatable even on a large scale and the union of these units leads to the composition of celllike isolates composed of single atoms. In addition to the Urban concept, a symbolic and social meaning has also been imprinted on these choi-

ces: the hexagonal shape, in addition to guaranteeing good exposure, adaptability and repeatability of the single island, recalls the typical cell of the beehives, symbol of industriousness, cohesion and of the community ideal. The production of energy will be guaranteed by the exploitation of the wave motion, which ensures energy both during the day and at night regardless of the weather or atmospheric conditions. The surplus energy generated will be stored in large batteries positioned in the bases of the islands to guarantee supply even in periods of very calm lake. The islands will lead to the presence of large areas of shade below the water level, which will present lower temperatures than the rest of the lake. These areas will favor the development of lake fauna and flora while protecting biodiversity from the high temperatures caused by global warming. The important presence of water between the individual islands will act as a thermoregulatory factor ensuring cooling of the air in the hottest seasons and a gradual release of the accumulated heat in the cold seasons.

