

This project re-instates the abandoned Children's Corner Building in Scarborough as the ideal place to recover architectural memory and to house a center for health, art and research. The building is next to Scarborough's famous South Bay beach. The project is an intervention that exploits the artistic and cultural potential of processing environmental pollution. It responds to the fact that England's beaches are known to be some of the dirtiest in Europe.

History writes that Scarborough became famous due to the discovery of a source of iron-rich water with properties which are good for health. In honour of this historical fragment, the redevelopment of the building includes a 3D-printed salt room. Inspired by the historical role of the building as a place for lost children to wait for their parents, the building terrace is designed for, and dedicated to, the entertainment of children.

This Live Project has the Live Client of Crescent Arts, an arts charity with the goal to be environmentally friendly. The redevelopment intervention responds to this aim by reducing CO2 emissions and water waste and represents an ecological challenge to the status quo.

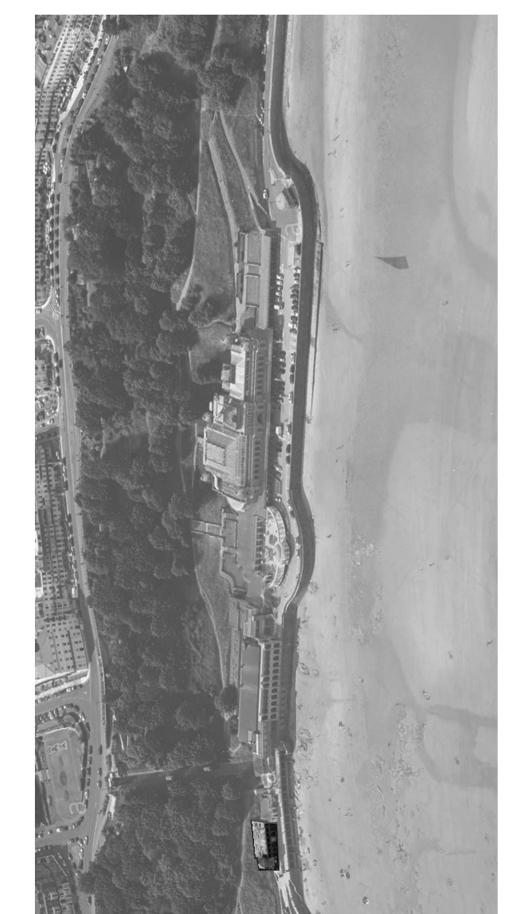
### Cleveland Way Scarborough, YO11 2A Yorkshire, United Kingdom NOT IN SCALE The location plan (scale Above and left 1:200) shows the natural features around the building. it is posible to 1 The sea is a resource of see the water, winds and topographic unfortunately plastic. map and the 2 Winds generates energy

location plan.

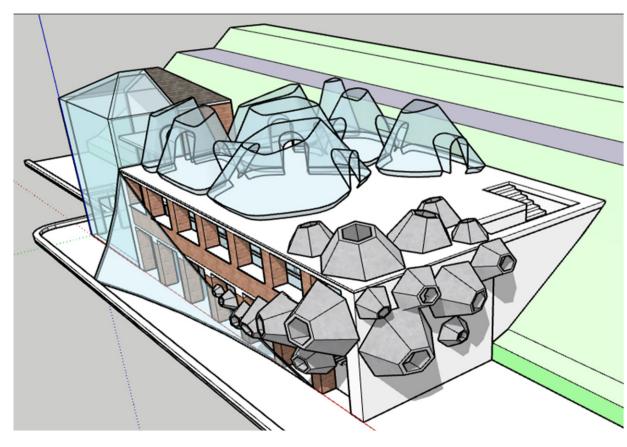
On the right, an historical photo of the terrace, an aerial capture of the place, and the transformation of thebuilding from the original to the concept till the 3D printed model.

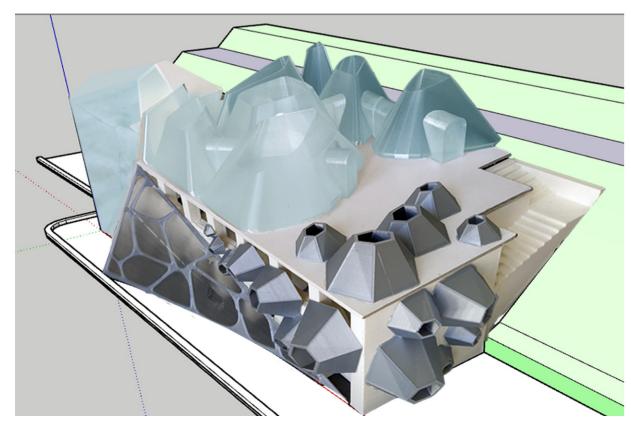
### Getting to know the building.







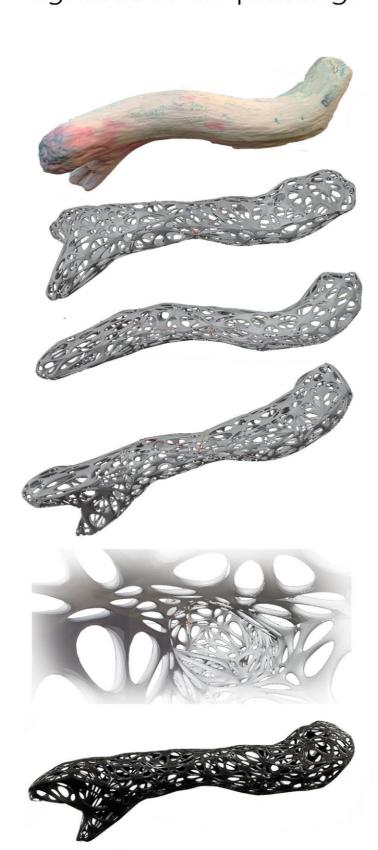




- thanks to the wind turbines located on some barnacles.
- 3 In the East side there is the sandy beach, which can be used in order to 3D print glass.
  - 4 The hillside supports the terrace and the void underneath it is filled with a staircase.
- 5 The location is particularly rainy, so the rainwater can be collected and reused within the building.

# The damaged parts of the building will be preserved with 3D printed glass which is transparent and it can be printed it from local sand.

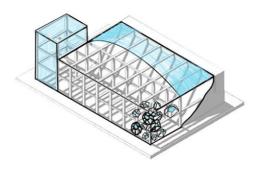
The driftwod piece found on the seaside has been 3D scanned, then elaborated into Voronoi Pattern, then 3D printed using recycled plastic.
Voronoi Pattern is a naturally occurring pattern that can be found on the back of a turtle, on the seabed created by light, and is often considered the symbol of 3D printing.



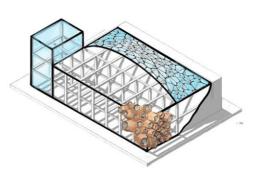
## Building Condition Concept Piece Key Moves

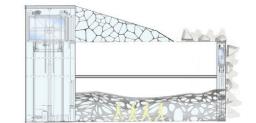
Exterior Key Moves

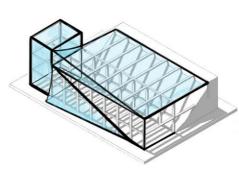
Interior Key Moves

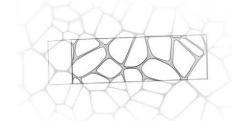


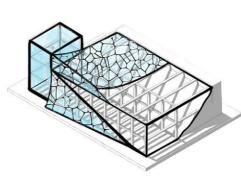


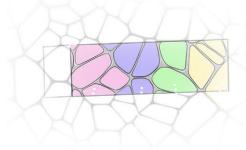


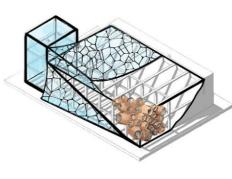


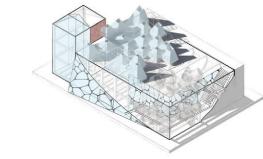


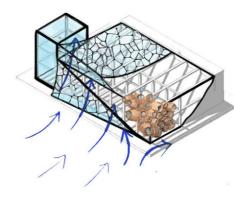


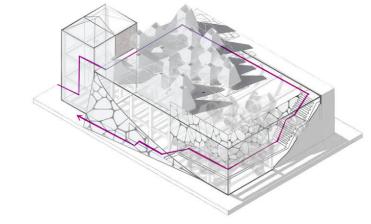


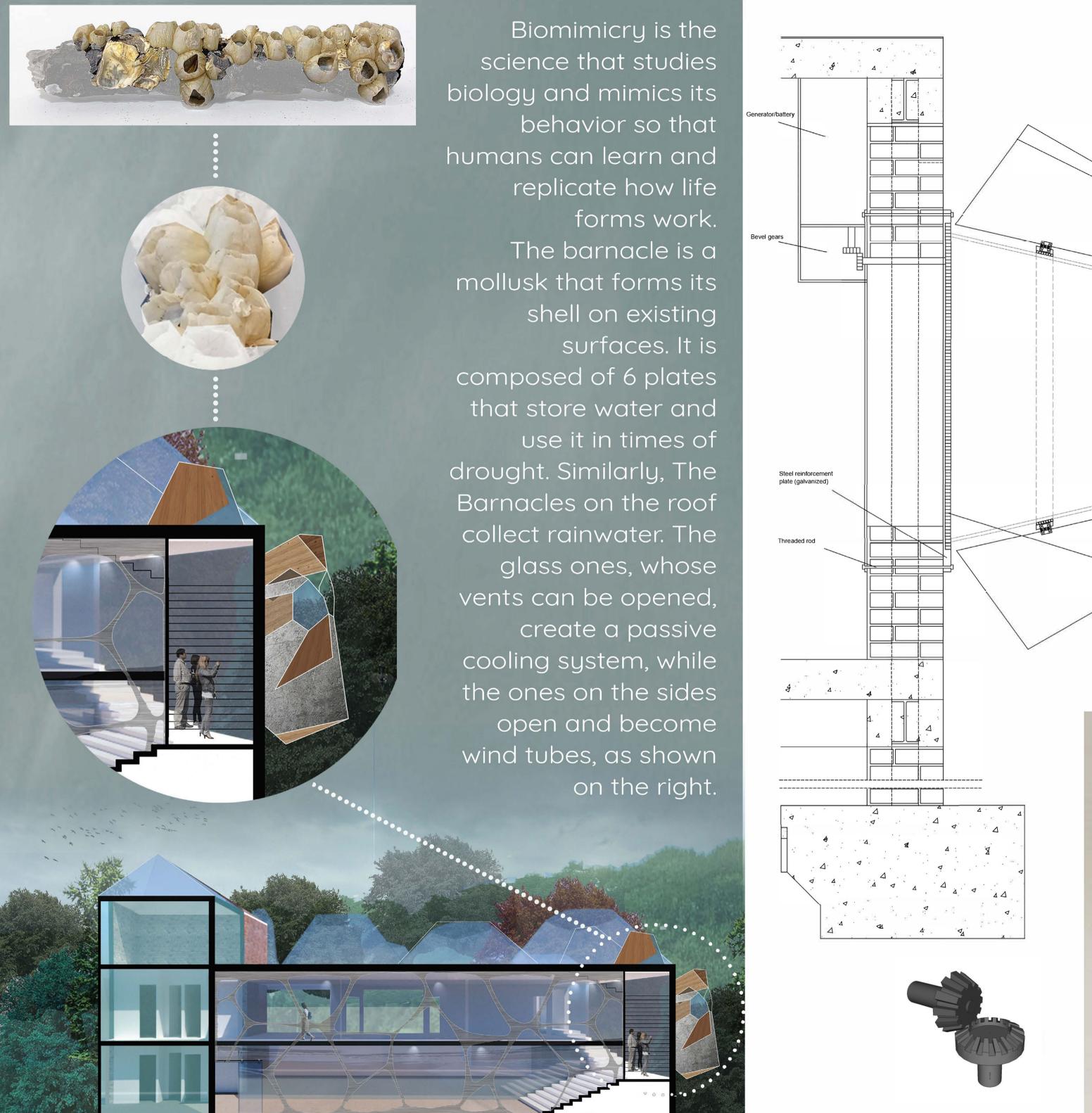












# On the side of nature: Biomimics

Click the links below to see an experimental model of the wind turbine operation. The plates opens when it is windy and spin. Thanks to a bevel gear system and a generator,the movement will be turned into energy



