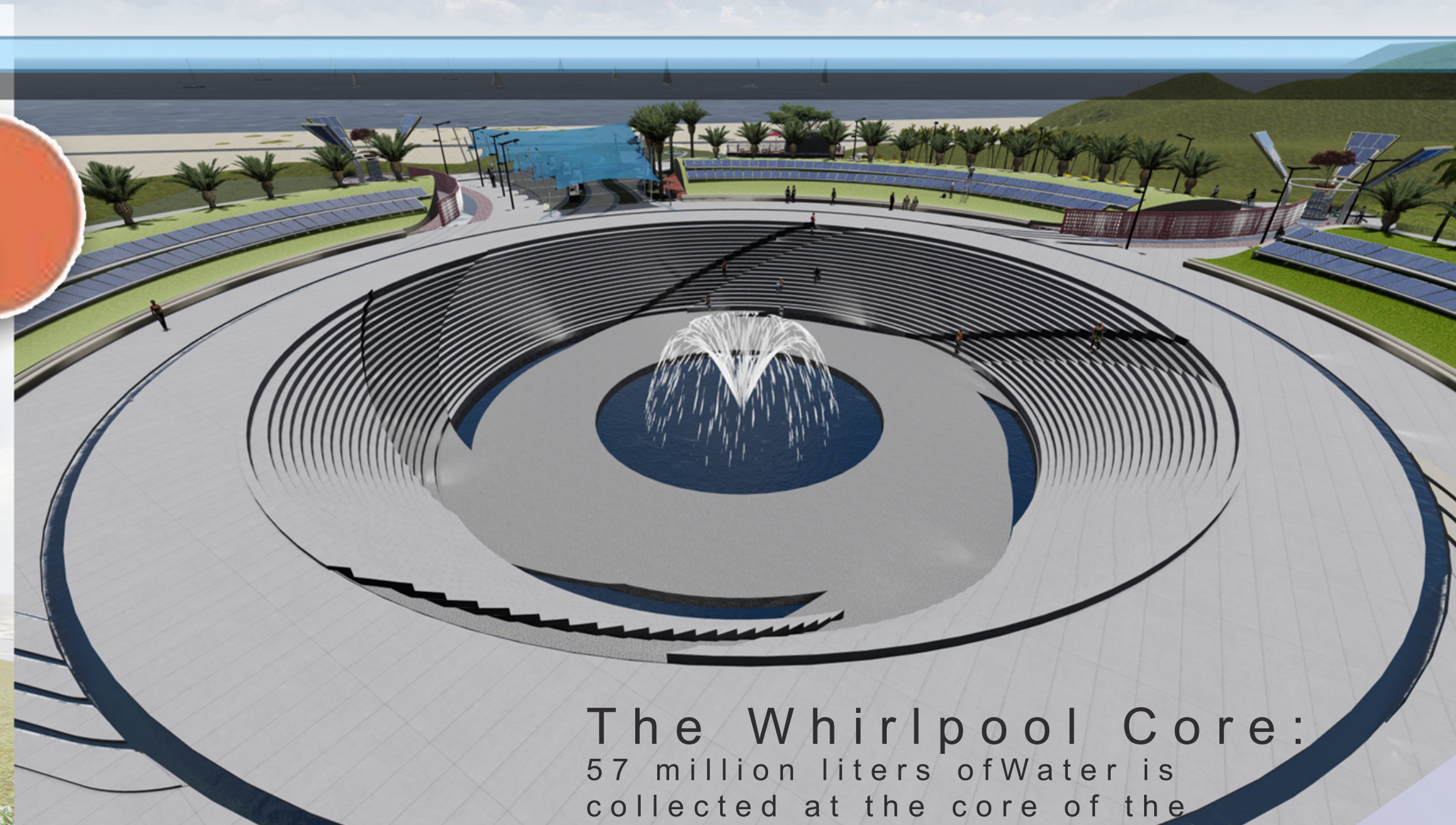


02

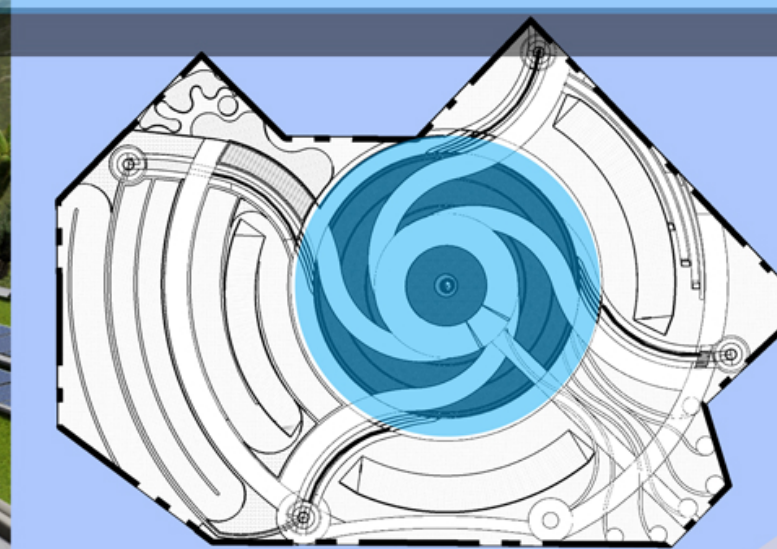
WATER REGENERATION

Water Feature:
Water is brought here from the core via bubbles, then return to the core via open canals. This help filter the water and become usable by the irrigation and fish farm



The Whirlpool Core:

57 million liters of Water is collected at the core of the wormhole. Rain water gravitate to the lowest point on the open space and cascade down the steps made to resemble a spiral. This creates bubbles that pneumatically assist the climb back to the higher parts of the water system.



SPACE

02

SPACE ORGANIZATION PLAN

PASSAGEWAY

Open breaks between the Bio swales focus the wind flow through the Venturi Passage. This acts like funnels that harness the wind. The flow is then further directed by the spiral design of the whirlpool.

WE WHIRLPOOL EXPRESS

RESILIENT

CONCEPT

WATER FOR HARVESTING AND REDISTRIBUTION

Rain water are harvested by the ff rain catcher shades, wormhole basin and canals that ends up at the cistern underneath the core



SPACE ORGANIZATION PLAN

WIND IS CHanneled

Combined with water the result gives a cooling effect on the landscape. Brick Venturi Walls as shown in the image makes for a natural air cooling system.

SPACE 03

Paving:

Grass pavers help to cool the air passing the promenads. Loose stones also allow water and air to move freely here, making the experience more pleasing.



VENTURI PASSAGEWAY

SITE SPECIFIC DESIGN:

• Wind Flow:

As an island east facing seafront the wind harvesting elements in the landscape aims to capture onshore breeze during the daytime. This optimises wind flow to cool the space during the hottest period in Marou.

• Bioswales and Wetlands:

Incorporated here are bioswales and wetlands to filter stormwater runoff, recharge groundwater, and create natural habitats. It also serve to buffer against strong regional typhoons and cyclones.

03

WIND COOLING AGENT