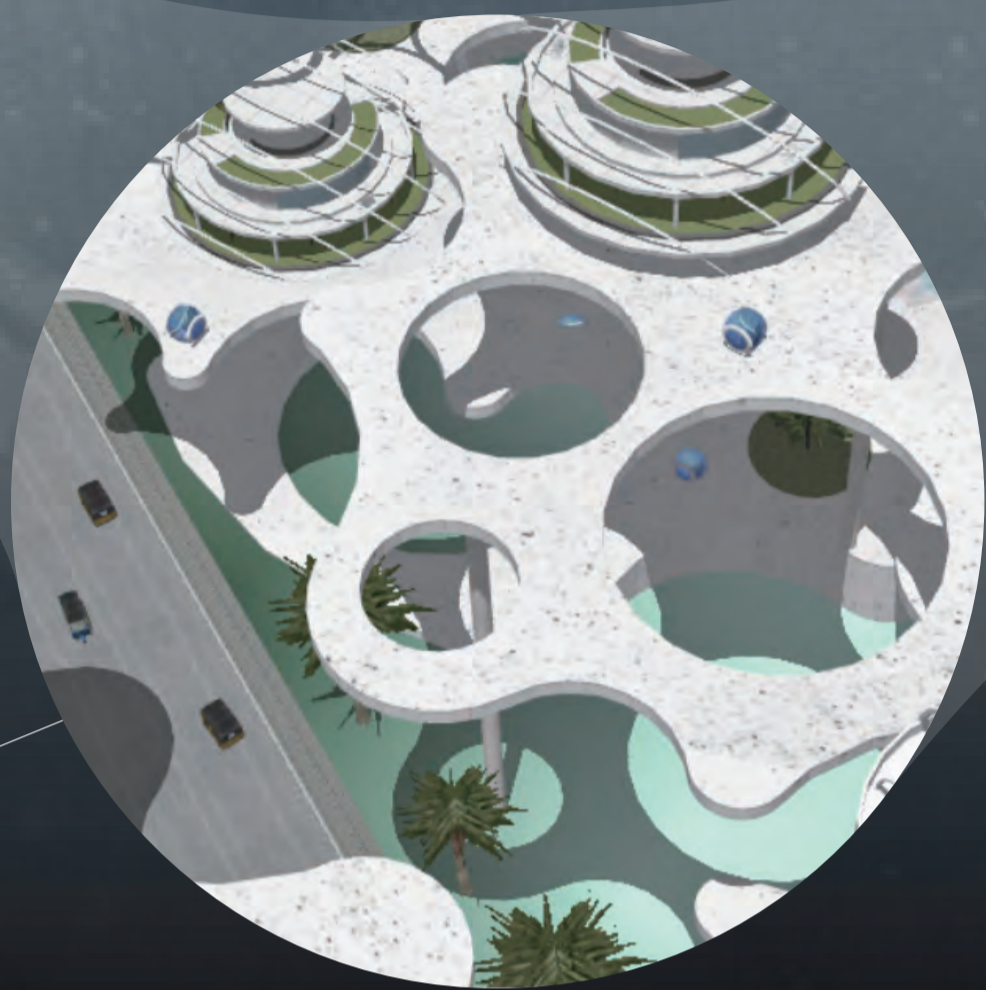## AI Information System

Various services have been merged into the digital information panels of the personal membranes, such as transportation, entertainment, event introduction and activities tutorials, so that the personal membrane can become an indispensable travel guide for tourists in Phuket. This system would be integrated with drones to express commodities between stores and customers and control automated solar street lights. Consequently, Phuket can operate more conveniently and automatically through AI systems.

Automated Solar Street Light
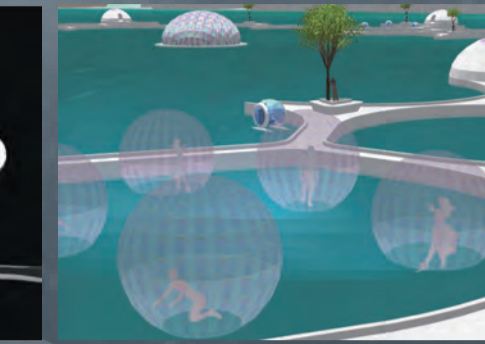(with a charging bracket for drones on top)
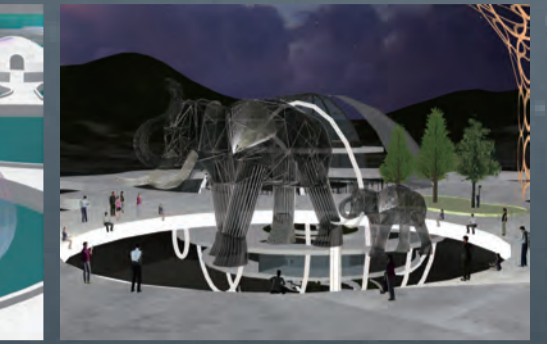
Modularized
Floating Island

Entertainment

In addition to retaining the traditional entertainment industry of Phuket, several technological experiences have also been added to this future beach resort, such as virtual AR elephant rides, nightly water opera performances to enrich the entertainment of Phuket at night and innovative jungle flyover activities to experience different city scenery by traversing between the city levels of the bubble system.
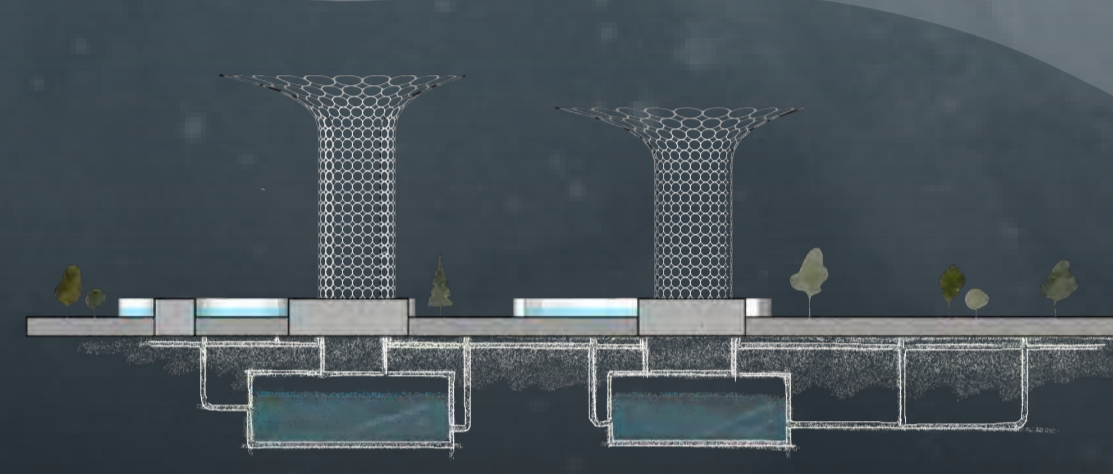
- 3D Hologram
- Water Activities
- Virtual AR Elephant Ride
- Traditonal Night Market

Disaster Prevention

To prevent major disasters such as tsunamis and rainstorms, urban pore spaces are added to the ground level, which could guide the immediate excess water into underground reservoirs, which complement the overall urban water system to mitigate the impact of disasters.
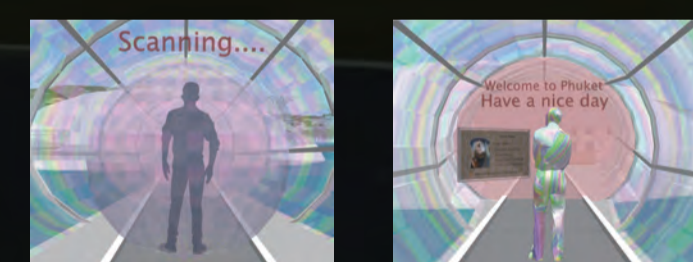
Exodus

The column become the refuge shelter in case of disasters such as tsunami. There are four escape ladders on each platform. This case explores the evacuation capacity of each platform.

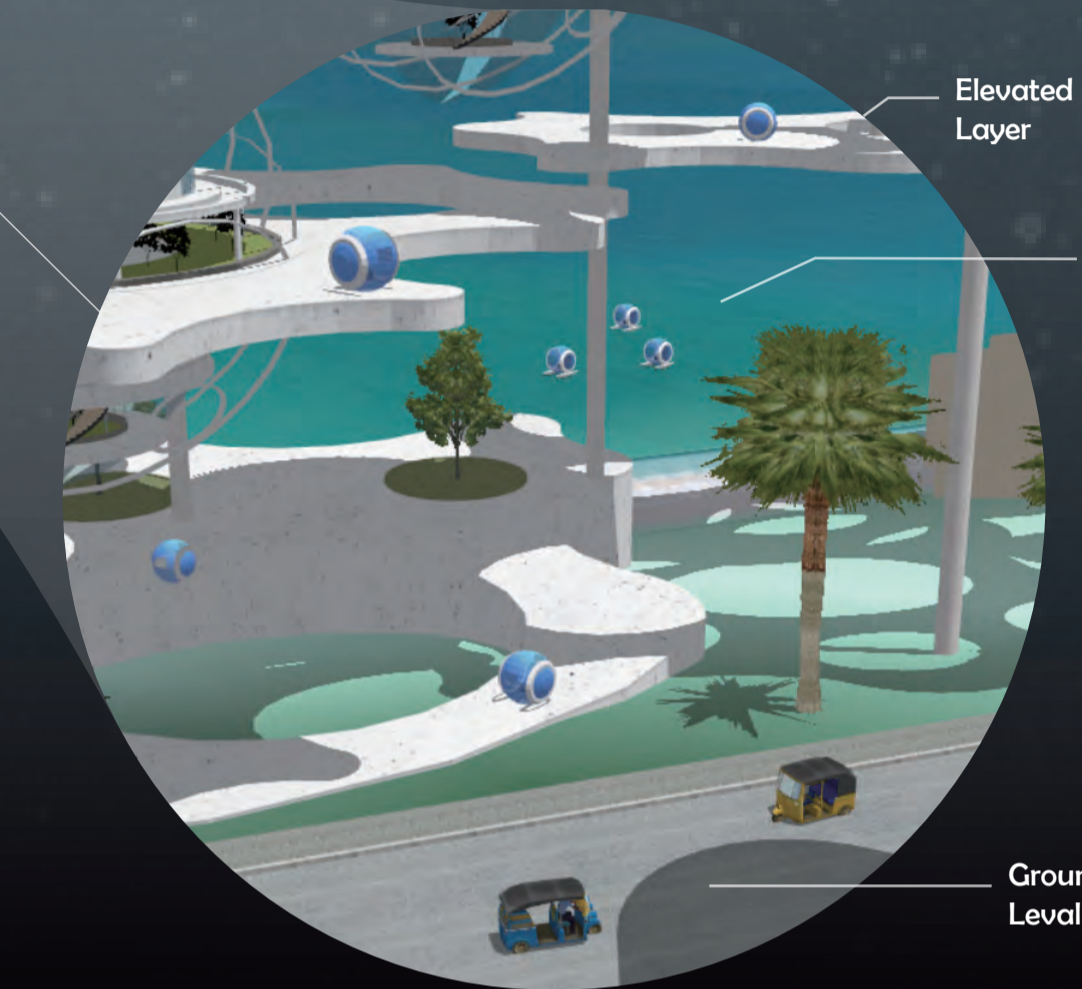| Stairway	Stair Width	Evacuative Time
2	2m	4min
2	1.3m	5min
4	2m	2min

Transportation

The transport system has been integrated with a unit to be the main carrier from land to the ocean. With a digital information panel, tourists could get more easily realize how to use the transport system and enjoy Phuket's culture or landscape without language barriers.

Landing
Bubble City

Landing Unit Car + = Personal Watercraft

Elevated
Layer

Maritime
Layer

Ground
Leval

Phuket
Island

Energy

The column is the main axis of energy design in Phuket's bubble system. The membranes on the surface could convert sunlight into electricity for urban transportation, and collect rainwater centrally and supply it to the green zones of each layer to achieve sustainable recycling.

Epidemic Prevention

After entering the country and passing through the airport quarantine tunnel, a bubble-like membrane will be wrapped around the body. The personal membrane can block the mutual infection of specific pathogens to achieve a strong anti-vaccination effect without regard to social distance. The membrane will normally be applied to the body and can be extended into a sphere in special cases. Meanwhile, an information system has been added to the membrane to provide a variety of services beyond epidemic prevention.

BUBBLE STREAM

-The 11th Virtual Design World Cup

Introduction

"Bubble Stream" will be the blueprint for the future of Phuket in the post-epidemic era. By analyzing various existing issues in Phuket and suggesting possible answers, combining life with AI technology and innovative bubble system to make Phuket a beach resort city with a sense of future generations.

Concept

The concept was conceived in bubbles of the waves at Phuket's beach. While the bubbles were connected, they would be transformed into an innovatively conceptual system and executed in the whole beach resort. With the "visualization of foam" as the main design, the urban space will develop vertically and become more diversified in terms of usage. In terms of urban development, a multi-level staggered design has been set-up without destroying the original streets. Tourists mainly move around in the upper levels, while residents can still maintain their original living habits. Nighttime projections weave between the platforms, creating a resort that combines old culture with new technology.