

--The 10th Design World Cup-- Dia-Green City

SSat team-0014

Introduce

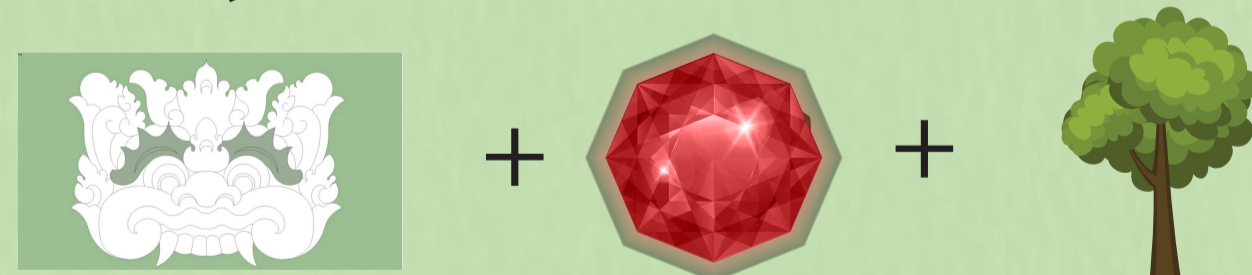
Dia-Green City is planned for the redevelopment of Kalimantan city to change the image and industry. In this project, SSAT team 5.0 proposes ideas and designs based on the concept of "Smart society and transportation 5.0", applying artificial intelligence, IoT and cloud computing to enable monitoring, modeling and management to protect the bounded forest.



City of the nature center of the world

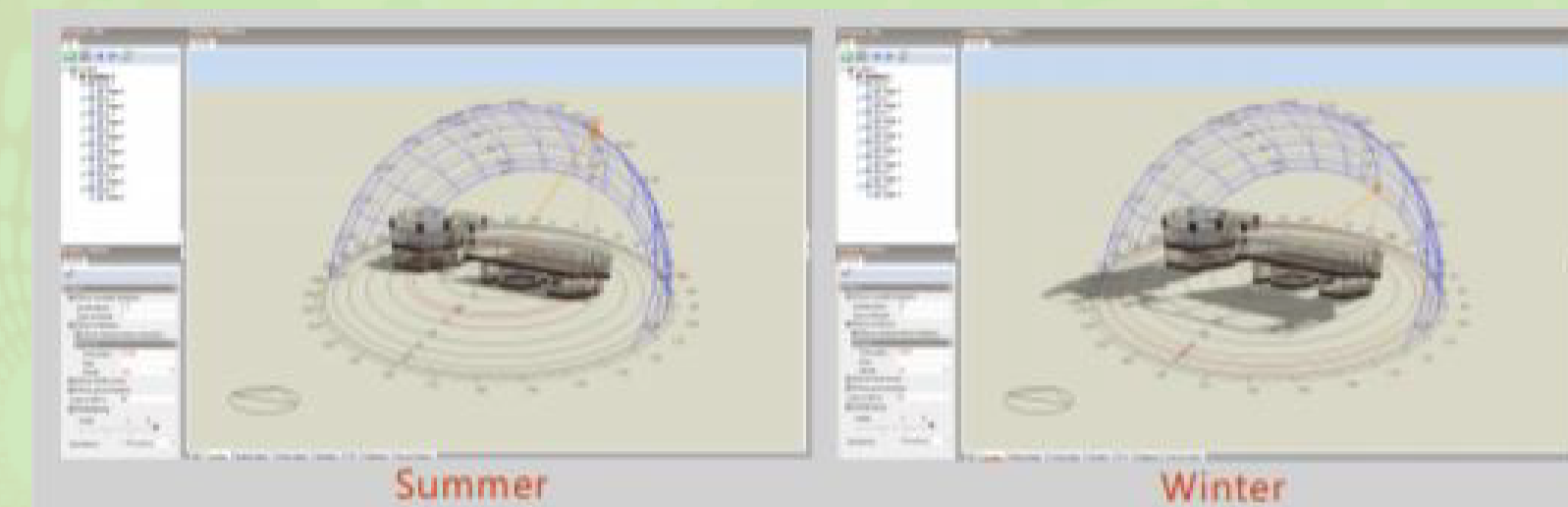
Design concept

Get the idea from Rangda mask , diamonds , green tree to combine together to create a smart city with green space to create a modern city friendly with the environment.

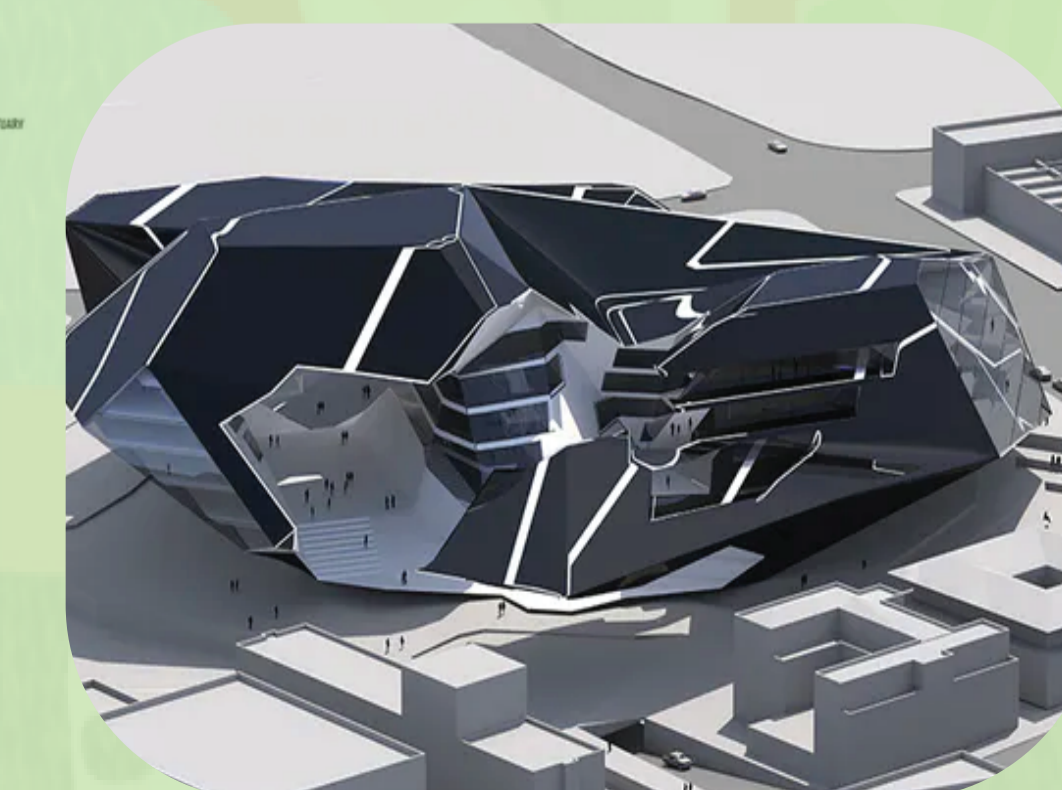
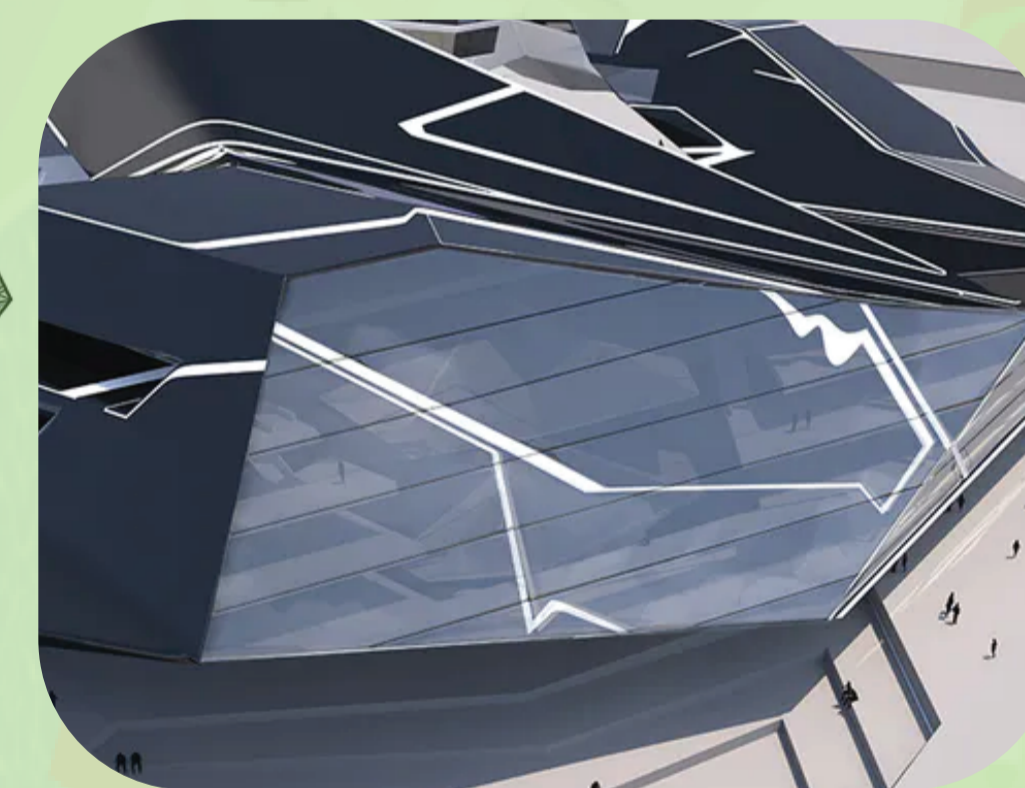
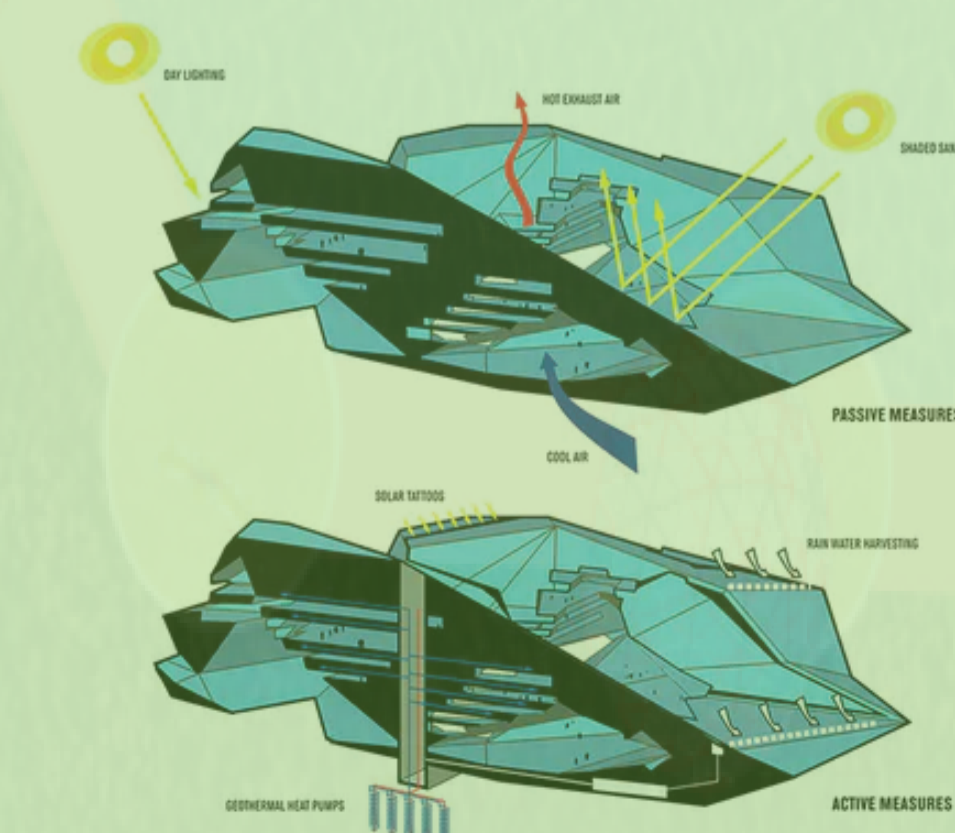
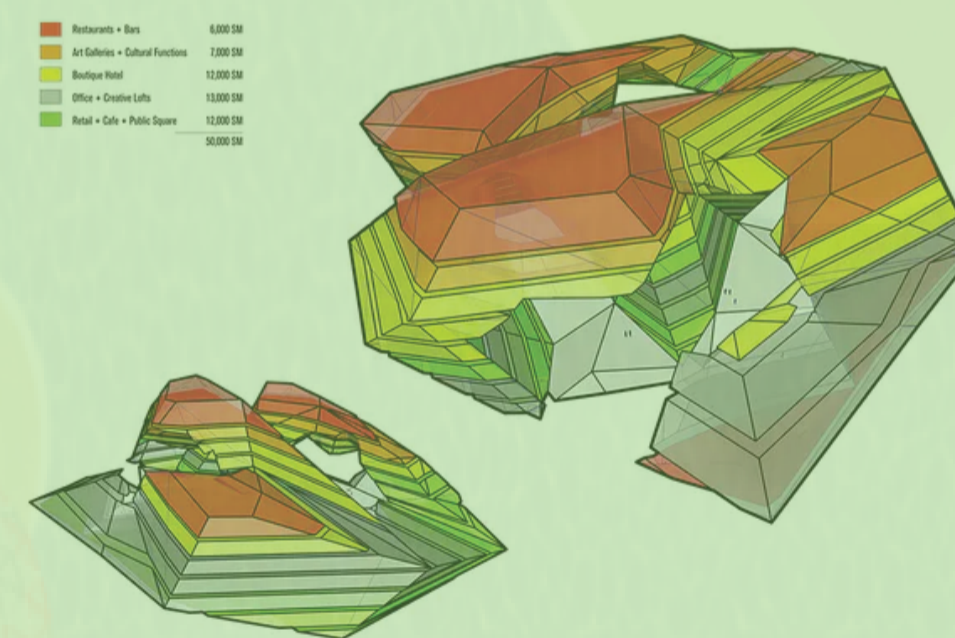
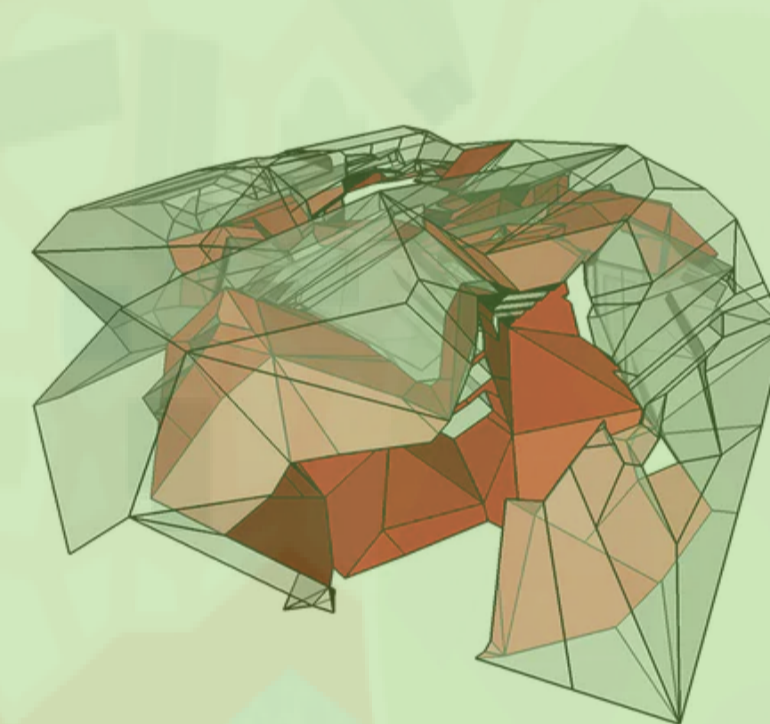


Design Builder

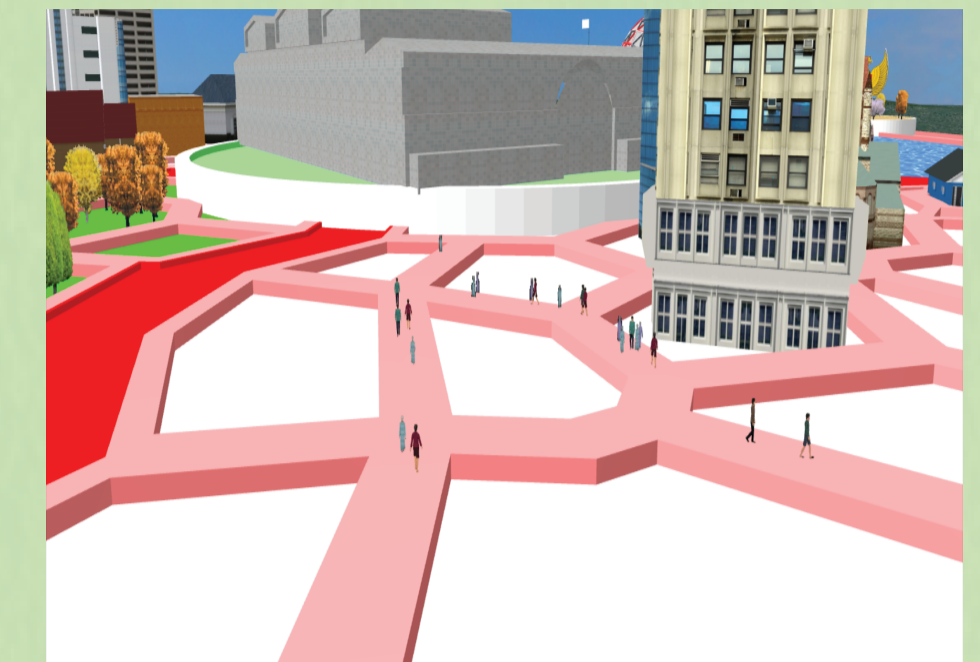
Local materials are used for the building materials. "DesignBuilder" is used to analyze and simulate, including sunlight factors and illumination simulation in order to save energy. Also, making the most of natural light and greening is beneficial for achieving the goal of low carbon.



Diamond Tower



Facilities Planning



Bus Stops



Providing public services such as real-time vehicle positioning, and connecting traffic nodes increases accessibility and convenience.

Bike Stops



A continuous bike network is established, and safe bicycle parking spaces and maintenance stations are provided.

Disaster prevention

In the surroundings of the site , green space system and flood detention basin will be used to carry out rainwater treatment and planning. "UC-win / Road" and "XPSWMM" softwares are applied to predict possible flood zones and possible depths of sea level rise in the future. This simulation will help prevent disasters.

