THE 5TH VIRTUAL DESIGN WORLD CUP

Introduction

Keelung is a major port city where is the second largest container harbor in Taiwan, and ranks 39th in the world in container-handling capacity.



According to the main purpose of the redevelopment project in Keelung port - station area that change the image of Keelung city from industry, cargo transport to tourism and service development, by the way, this place will become an attractive tourist destination of Taiwan. INED - UTC team suggests the design theme "Green flow" which bases on criteria for sustainable development and green design. In this project, we divide the city into five areas connected together as a green flow

Design concept

In order to toward the sustainable development and changing Keelung' image from a pure commercial port area to a green city where is humanly and environmentally friendly. This aim paves the way for the design concept "Green flow" of INED - UTC team. "Green flow" is a concept related to the redevelopment of cities in a circulatory and sustainable renewable

Basing on the design concept "Green flow", we offer some designed and planed solution in order to the main goal:

1. Eliminating motorize and increasing the use of means and some types of public transport. This solution creates a continuous connectivity, uninterrupted and environmentally friendly transport between internal and external.

2. Dispersing the traffic volume to increase capacity, avoid traffic congestion and enhance walking

3. Taking advantage of natural energy, greening the city







GREEN 1: GREEN STATION

For the aim of creating both the prominent icon in city center and transhipment terminal connecting the region with each other, we design a versatile station as a boat which is a symbol of port cities with three main points:

- ⁹ The station is built to become the complex commercial service center in addition to serve the main fuction for passenger.
- Arrange transhipment terminal of buses and electric car routes infront of station, creating a continuous connection, smoothly and seamlessly 🌌 between rural and urban area.
- Station platform is put on the underground contributed reducing noise and saving space above. Moreover, the installation of transparent glass door reflects natural light, lightings for whole building and brings a touch natural friendly



GREEN FLOW - REDEVELOPMENT FOR THE SUSTAINABLE APPEARANCE





The areas is interconnected by special transport system, environmentaly friendly following the design philosophy that reduce personal vehicle, increase using the forms of public transport, encourage green vehicles such as electric car, solve overcrowding situation of traffic flow not only in palnning area but also surrounding region





GREEN FLOW: GREEN TRANSPORT SYSTEM

 \Diamond Traffic internal include (Inflow)

Moreover, to encourage and develop walking, pedestrian bridge and walk street are also built, creating a smooth pedestrian flow from the port - the station - the walk street

 \Diamond Traffic external (out flow): to connect between the green areas and other outside area, the bus system is placed before the station which is the center of circulation. From there, passengers can easily move to other place where they want to go

GREEN 2: GREEN PEDESTRIAN BRIDGE

Green pedestrian bridge connects two coast of the bay with the aim of reducing the amount of passengers as well as shortening the distance from the port to station by roads





Moreover, the bridge is designed with a suitable clearance in order to move the large boats used fossil fuel out of the city area, only allow motor boats and small boats by issues of landscape and environment, ensuring the desing concept



The location of walk - street is along the coast on the Gangxi street, Combining the green parks and night markets, this place is considered a domain of attraction in Taiwan as well as abroad



The modern square becomes a public green space for the cultural activity of city community. The bus and eco - transport system which operates harmoniously, smoothly and un - pollution connect this region with other area in Keelung city

The transport system in the city is planned and divided into 2 categories:

Electric cars start from the port, disembank passengers, luggage transport to the Keelung station and connected to walk street



GREEN 4: GREEN WALK STREET

Walk - street is designed to develop the tourism of Keelung city with environmentally friendly image



