

The 5Th Vitural Design World Cup

THEME 2015

“Redevelopment of Keelung Station Area in Taiwan”

Introduction

- **Redevelopment** of Keelung station area goal is a sustainable and competitive port city with criteria: easy mobility, trade and tourism, especially green city. Therefore our proposal focuses on strategic transit development and green solutions.
- **TOD** (transit-oriented development) is planning concept that promotes the creation of a network of well-design, higher urban communities focused around transit station. This planning measurement is expected to create Keelung transit corridor as the number 1 transport selection meeting the future needs of public for highest-quality transit service: safety, efficiency, reliable, courteous.
- **Green solutions should be proposed and implemented** for advanced friendly- environmental city.

Redevelopment solutions

→ Transport development plan

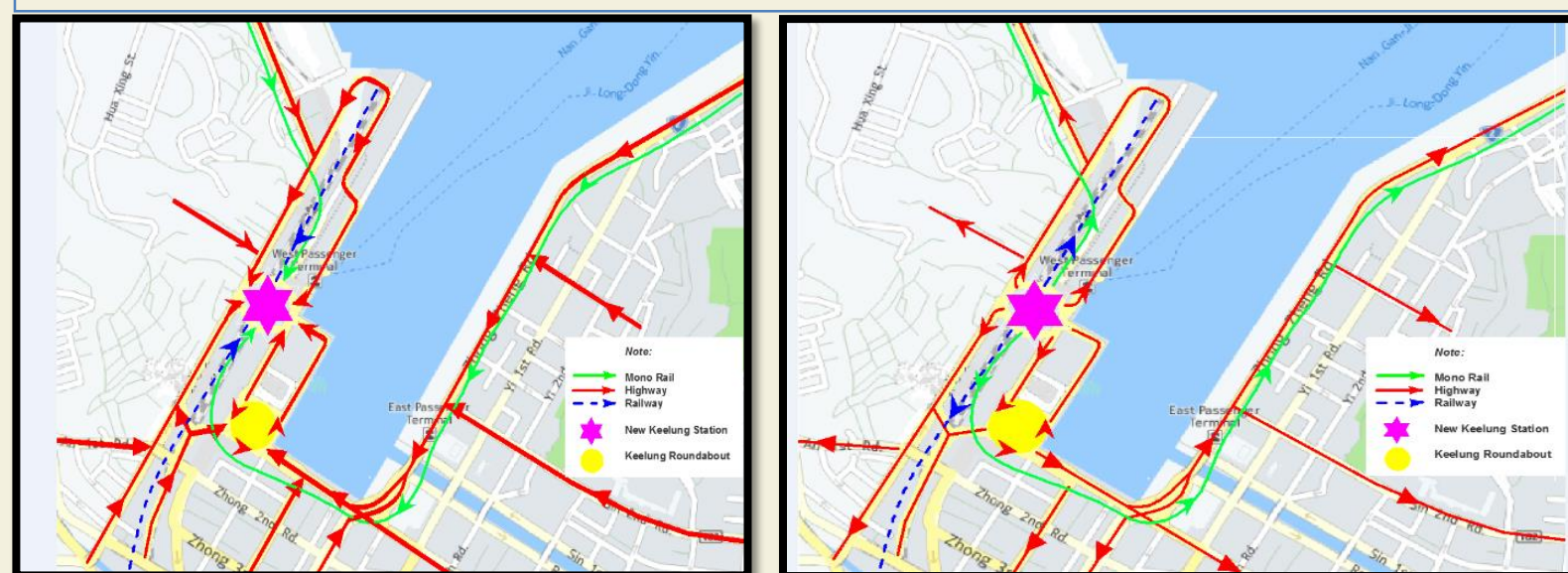
- ❑ Keelung is an area with a high traffic volume, complex transport nodes, and a lot of transport modes, solution for this issues:

- Establish a Keelung transit corridor with a new central station as a gateway or main transfer point for resident commuters and visitors to go out or in Keelung station area among transport modes available.

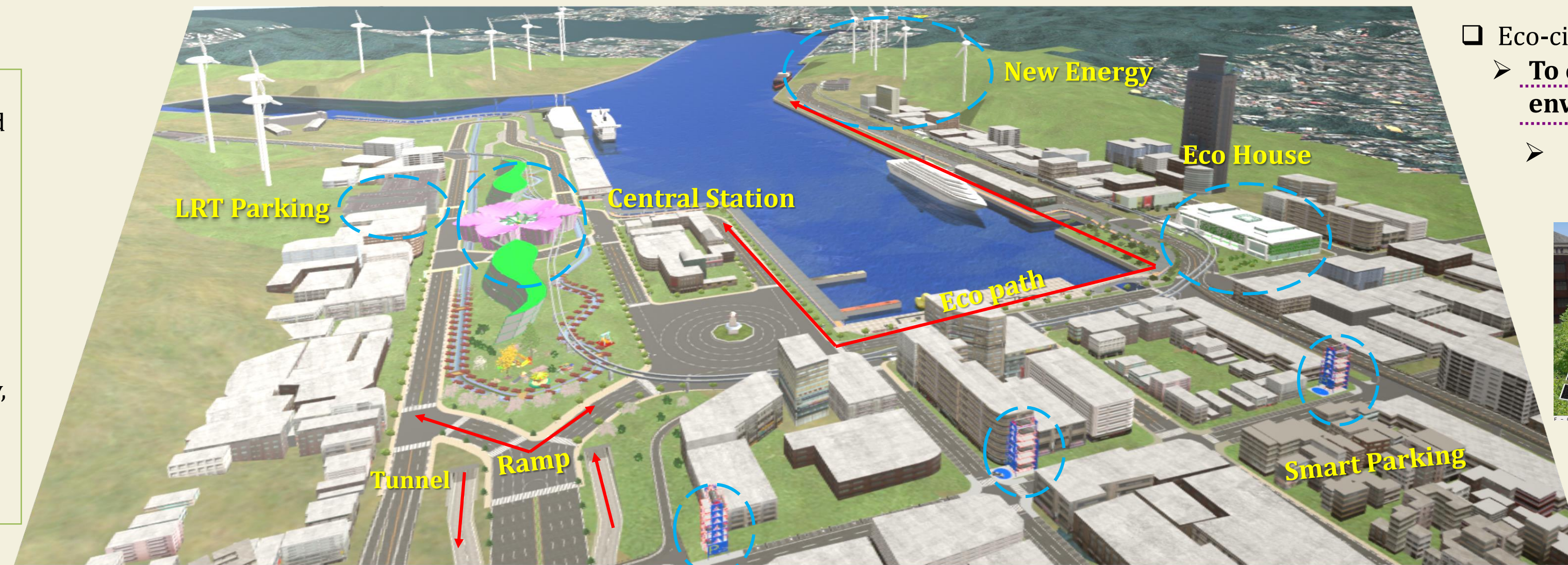
- ❑ Central Station as a high frequency and connectivity transit center has strong multi-mode public transport network (metrorail, metro over ,electricity bus) by conducting redevelopment actions:

- Remove and establish underground old Keelung station to new central station.
- Construct the monorail and electricity bus.
- Balance all modes of transport by constructing walkable street and bicycle lane along the seaside : pedestrian and bicycle access is balanced with vehicular travel around central station.
- Park and ride: addition of smart parking, **RTD PARKING**.
- Highway planning and engineering : ring road, a small tunnel , intersection improvement.

→ Friendly technologies and efforts for the future green city.

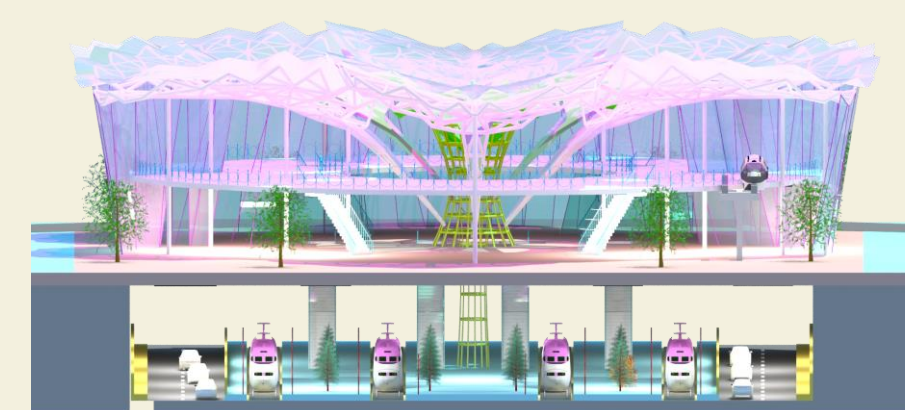
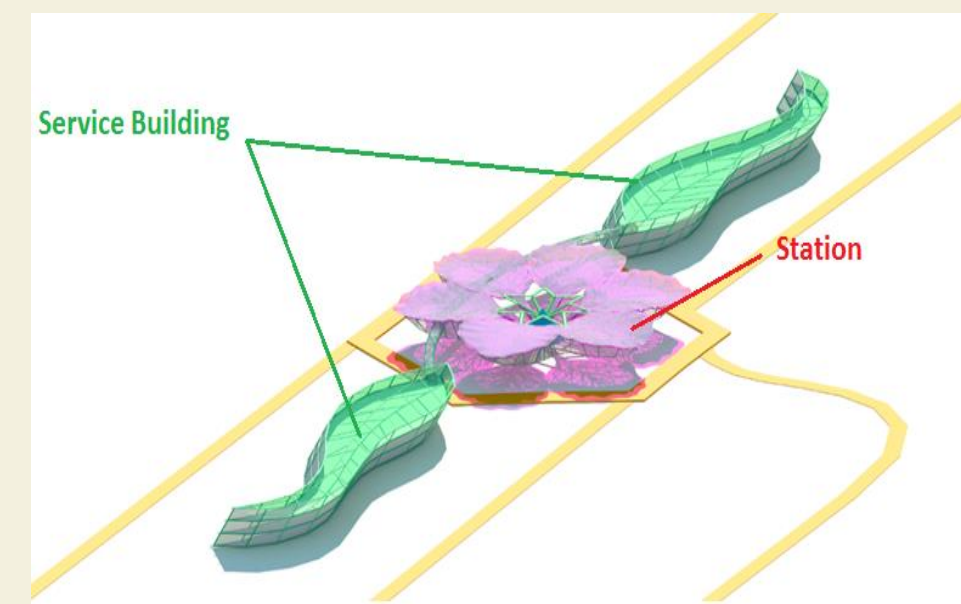


Keelung Transit corridor for 2 directions **in** or **out** of central station



1) The most vital measurement in redevelopment of Keelung station area

- The central station is expected to promote economic growth, tourism attraction and big transport demand in the future. Furthermore, it encourages local people and visitors **using public transit** as (tod) for sustainable development.
- It has arch structure and shape of of Lagerstoemia speciosa representativity for culture of port city Keelung, unique symbol and architecture , Which contributes to cultural meanings and tourist attractions.



- Station designed to accommodate various transportation connections, hence providing connectivity between transportation options. It will feature grade level tracks for underground railway network, customer service lobby and monorail(overfly)

Mono rail



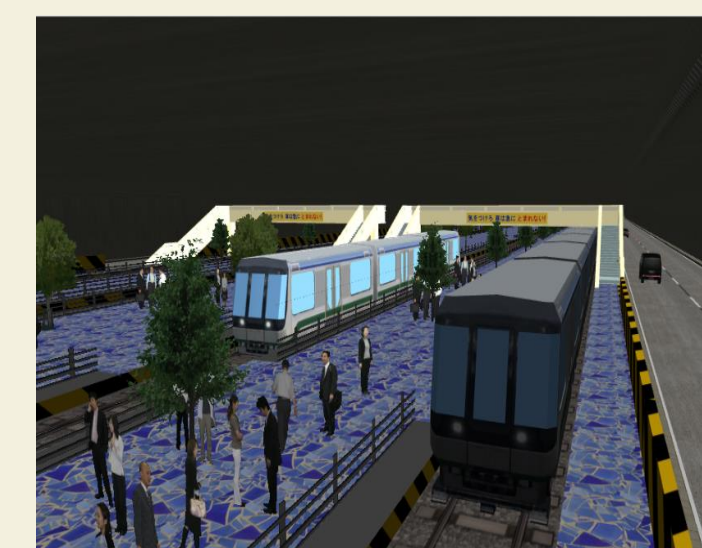
- The monorail route connects two sides of port along the seaside.
- Advanced public transport with light structure and eay fabrication,effcent, quiet,safe and green.

Passenger service



- ✓ Passenger service lobby for buying tickets, exit and entrance.

Metrorail



- ❖ The route connect keelung to Taipei and other regions .
- ❖ Metro-railway minimize the traffic congestion potential trafic safety, low noise and emission for sustainable development

The Connectivity Between public and private transport modes

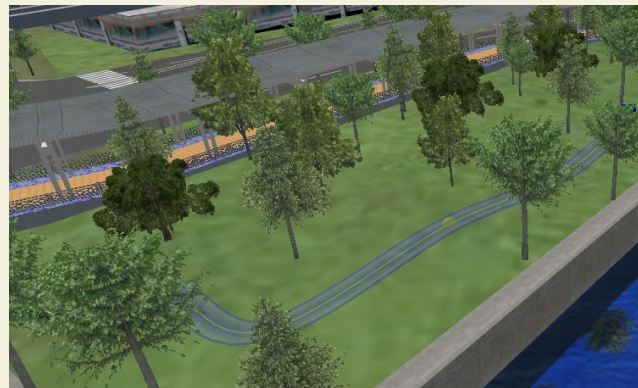
- ❑ With new Central Station, passengers from West passenger terminal and electric bus can easily walk to center station. Private means from all direction can be parked in RTD parking before walking to Cental Station .



2) Green solutions

- ❑ Eco-city by friendly-environmental technologies and efforts.
- **To complete the target of desirable Green City in next ten years 2025 ,the environment friendly actions should be implemented:**

- Street tree cover : make fully-green trees for fresh and clean city.



- Eco -Park makes more open space for this area.

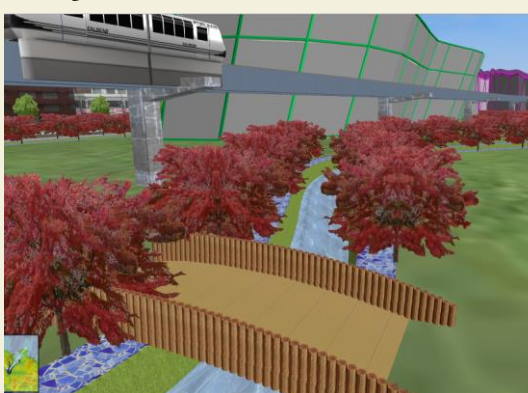


- Using alternative (solar and wind) energy for lighting to achieve long-term- economic and environmental benefits

- Water network around central station flowing to sea contributes harmonious landscape.



- Eco-House- place for conference and exhibition.



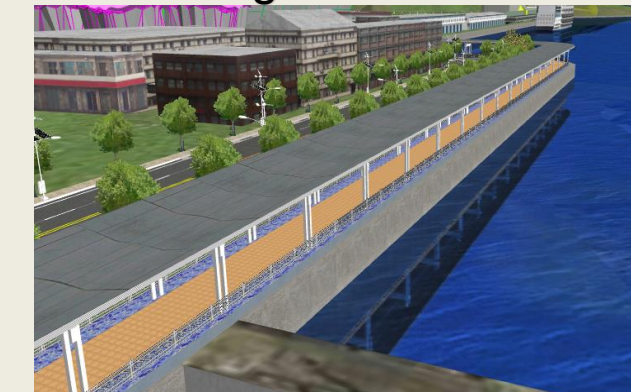
INTERSECTION IMPROVEMENT AND RAMP

- ❖ Highway planning and engineering: expand and arrange the area of intersection (Gangxi st). Connect ring road to harbor area by 2 ramps and construct new **Tunnel** in this position



Eco-path

pedestrian and bicycle lanes along the seaside



Tunnel



Smart Parking

- ✓ Optimize parking space usage, improve the efficiency of your parking operations and help traffic in your city flow more freely with the next generation of smart parking.

