THE 4TH VIRTUAL DESIGN WORLD CUP  
Theme 2014 “Sustainable Olympic in Tokyo Bay 2020”

SUSTAINABLE TACHES AND REACTIVATE SPACE

Introduction

The S.T.A.R.S. (Sustainable Taches and Reactivate Space) is a planning concept of Taitam region which includes adding new city facilities and upgrading old one to meet the need of 2019 Olympic Games in Tokyo. This plan is based on making the city more mobility and comfortable for tourists from around the world and its live up to the competition of an advanced environmental-friendly city.

The Sustainable Taches concept will ensure the serving of the needs in accommodation, transportation, food/drink service, and entertainment for the visitors during the Olympics, which will also be used effectively by the local after the Olympic Games, enriching entertainment and travel experience.

The Reactivate Space concept aims to promote the development of the harbor region out of the range of a conventional industrial waterfront and offer an attractive and valuable city environment, improving the local tourism revenue.

The S.T.A.R.S. aims to achieve the region’s long-term development and to balance the use performance in both proposed and existing area in Taitam region, Tokyo.

Design Concept

Currently, Taitam region is an industrial district where many companies work during the day and live at night. To promote the city’s population, the needs of the region will continue the dynamic flow of visitors during 2020 Olympic Games. The city function should deal with conditions that are created by that, and it shall be continually be effective function until the Olympics.

Light rail transit, as the primary means of regional transportation, appears to be high priority in the region, and also as high traffic density location. From the experience of 2008 Olympic Games in Beijing, China, the traffic volume of main subway is 120% of light rail transit, which is a level that should be capacity of a light rail transit in Taitam region during Olympics.

Area C: Light Steel Structure Space (optional)

By the side of two expected activities, there is a valuable functional utilization, providing temporary stay space and service for guests. It is a functional space from the two related to open space, which lacks to two existing car parking lots.

The design vision could be build with light steel structure, which is easy to remove and recycle after the Olympic Games.

Eco-Design

In order to reduce carbon dioxide emissions, the cost of electricity is reduced in the design. Low carbon and energy-efficient equipment with solar energy equipment which set on the building roof.

Area D: Bicycle Transportation Network & Hostel

In order to avoid traffic chaos, an comprehensive entertainment mall is built with the transportation stations, not far from one of the expected palaces, in the side of Odaiba Seaside Park(15), which will connect the land and biking shopping during Olympics. Both of the mall and the stations share the vehicle parking for upstairs.

The reason of choosing this location is that Taitam is chosen is mainly a residential area(6). The entertainment mall in this region can be fully used by the Olympic Games, which avoids unnecessary investment and excessive financial burden of the architecture.

Area E: Bicycle Transportation Network & Hostel

During the Olympic Games, the bicycle using bicycle in the most energy-saving and connection methods for the very region. We get several bicycle rent shops and bicycle parking lots (Fig.5), create a new bicycle transportation network, which improve the traffic network (see more detail at V8.0.Disc.)

Some of the places in Tokyo will be transformed into tours’letting accommodation for visitors, or other environment-friendly facilities including bicycle rent shops. The proposed accommodation facilities located at the outside of the city, a distance from the Shinkansen Station, also away from the traffic zone of the main palaces. After the Olympics, they could be rented to their original functions.