



Smart JAMP(2021) Pre-feasibility Study on the Development of a Digital Map for Urban Planning and Management for the Realization of Smart City and so forth in Da Nang, Socialist Republic of Viet Nam

Category of Issues in the Area



Target Area

- Da Nang City and Da Nang Hi-tech Park, Socialist Republic of Viet Nam

Background and Purpose

- Under the concept of Smart City MP(2018), Da Nang City prioritized following projects to be implemented. According to this request, plan of demonstration projects utilizing Japanese technologies were proposed.
 - ① Developing digital map for smart city planning and management: Da Nang shows needs on improvement of public bus App which was developed based on Gov. approved digital map- Map4D.
 - ② Building a model of Smart Urban Area in Da Nang Hi-tech Park (DHTP): DHTP shows intention to provision of stable power supply and use of digital map for business promotion.
 - ③ Pilot public bicycle service in the city center: Da Nang shows needs on collaboration with Vietnamese and Japanese companies for share cycle business and use of share cycle data.

Related Organization

- Da Nang People's Committee, Department of Foreign Affairs, Department of Information and Communication, Department of Transport, Da Nang High-tech Park and Industrial Zones and Authority

Project Stage

- Pre-feasibility Study (Priority Project ①, ②), Feasibility Study (Priority Project ③)

Contents and Results

1. Developing digital map for smart city planning and management

- Summarized the current issues of MAP 4D and EcoBUS App. Proposed DanaBus Management by improving EcoBus App in consideration of utilizing Japanese technologies.
- Improve EcoBus to MaaS App by static/dynamic data from bus GPS and share cycle .
- Utilize visualized data to bus management and transport management plan.
- Da Nang agreed to the PoC and expects MaaS App as harmonized with direction of DoT.

2. Building a model of Smart Urban Area in Da Nang Hi-tech Park

- Proposed infrastructure management introducing smart technology, considered establishment of digital platform for efficient infrastructure operation and business promotion to cope with issues of power supply.
- Provide stable infrastructure and develop digital platform by smart meter real time data.
- Introduce smart meter to Japanese companies' tenants which already install solar panel.
- Utilize real time data from smart meter to infrastructure management plan.
- DHPZA appreciated the PoC. DHPZA also showed intention to further collaboration with Japan, to arrange meeting with EVN, and to take initiative consulting tenants of Japanese companies for smart meter introduction.

3. Pilot public bicycle service in the city center

- Proposed share cycle data to MaaS App based on information sharing on seminar and consideration of share cycle FS and technologies in Vietnam and Japan.
- Improve EcoBus to MaaS App integrated with static/dynamic data of share cycle.
- Collaboration between Vietnamese and Japanese companies for share cycle business and charging station setting.
- Utilize visualized data to smart transport planning.
- Da Nang highly assessed share cycle business in Japan and expects use of Japanese technologies and knowledge. On the business meeting, both of Vietnamese and Japanese companies positively considered collaboration in battery share and multi-mobility technologies and joint participation to the share cycle business.

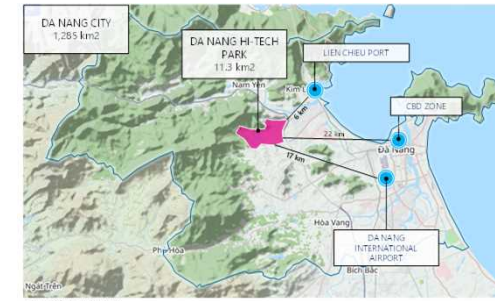


Figure 1: Target area

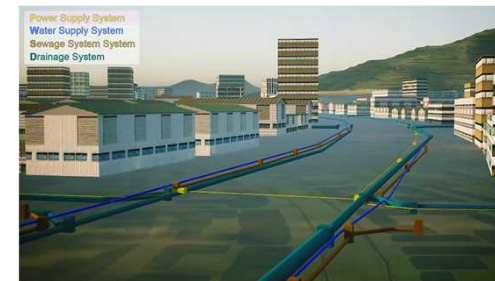


Figure 2: Image of digital platform (monitoring of infrastructure)

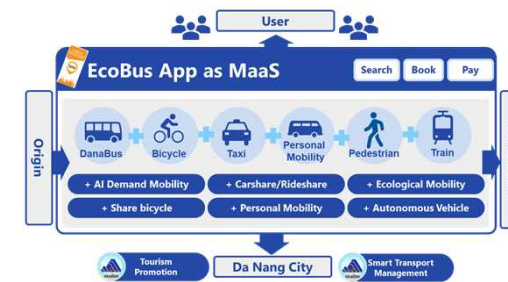


Figure 3: Image of MaaS App