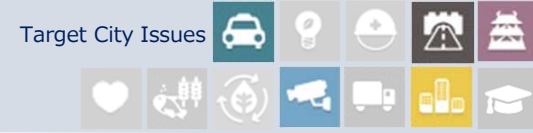




Smart JAMP(2021) Pre-feasibility Study on the Introduction of Advanced Technologies in the Field of Transportation for the Realization of Smart City in Siem Reap, Kingdom of Cambodia



Target Area

- Siem Reap Province, the Kingdom of Cambodia

Background and Purpose

- Based on the roadmap toward a smart city complied by JICA's "Data Collection Survey on Urban Environmental Improvement in Siem Reap City in Kingdom of Cambodia", the MLIT Survey Team proposed a solutions for four priority projects (①,②,④,⑤)suggested by Siem Reap through the introduction of advanced technology, and gather information on the needs of the recipient and the interest of Japanese companies as well as other projects.(③, ⑥)

[Priority projects mentioned in the request from Siem Reap]

- ① Smart City Data Collection & Analysis
- ② CCTV System Introduction
- ③ Official Parking System Introduction
- ④ Traffic Light System Improvement
- ⑤ Local Tourism Experience Enhancement using AR
- ⑥ Shared Mobility Development

Relevant Organization

- Siem Reap Provincial Administration, DPT(Siem Reap Provincial Department of Post and Telecommunication), DoT(Siem Reap Provincial Department of Tourism), DPWT(Siem Reap Provincial Department of Public Works and Transportation), Siem Reap Provincial Police, APSARA National Authority (The Authority for the Protection of the Site and the Management of the Region of Angkor), etc.

Project Stage

- Pre-feasibility Study

Contents and Results

The following proposals were made for priority projects and reached a basic agreement on policies.

1. Smart City Data Collection & Analysis
 - An implementation process was proposed for the establishment and operation of a smart city platform and development of the system to enable effective utilization of the platform.
2. CCTV System Introduction
 - In the short-term phase, installation of CCTV cameras using image analysis technology and establishment of security services were proposed. In the long-term, the expansion of these services was proposed as a maintenance phase for the introduction of CCTV.
3. Traffic Light System Improvement
 - In the short-term phase, it was proposed to improve traffic lights system using CCTV, traffic management using existing traffic lights, and implementation of education programs to improve traffic management capabilities. In the long term, improvement utilizing probe data was proposed.
4. Local Tourism Experience Enhancement using AR
 - Angkor AR Labs, a digital tourism platform specializing in AR maps of Siem Reap city including Angkor archaeological park, and tourism content, as well as establishment of a smart museum using digital content was proposed.

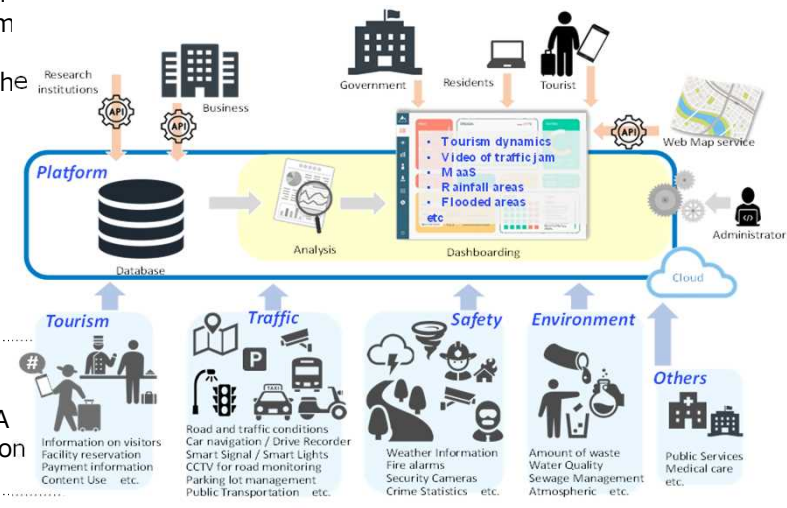


Fig.1 : Image of Smart City Platform

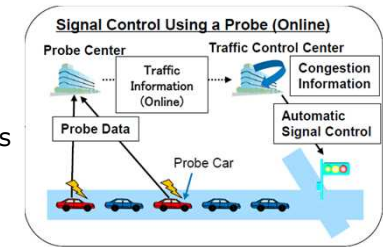


Fig.2 : Image of Smart Traffic Light System



Fig.3 : Image of AR Map