Smart JAMP

APPLICATION FORM for Smart City Project Formulation Study

Project Digest

1. **Project Title** : Study on the development of "Banyuwangi Smart Kampung"
2. **Name of The City** : Banyuwangi, East Java, Indonesia
3. **Category of The Study**
   Select one or more of the following, if items D and / or E are included

   - (a.) Masterplan Study
   - (b.) Pre-Feasibility Study
   - c. ~~Feasibility Study~~
   - d. ~~Capacity Building Program~~
   - e. ~~Experimental Implementation~~

4. **Justification of the Project**
   a. **Present condition of The Smart Kampung**
   Currently "Smart Kampung Banyuwangi" is in its fourth year of operation since its development started in 2016. Originally, the installation of optical networks began as a solution to provide easy access to administrative services in villages scattered over a wide area in Banyuwangi. (e.g., it takes more than three hours to get from the village to the county office), but now it has become a system for solving other problems and increasing benefits. The term "Smart City" is not used in Banyuwangi but rather "Smart Kampung" which indicates that the village has adopted a service system at a level appropriate to its economies of scale, residents' ability to handle equipment, its maintenance capacity, and literacy rates.

   In fact, Banyuwangi has been selected as a member of the ASCN Smart Cities which has attracted a lot of attention from domestic and foreign parties who have come to Banyuwangi to introduce its technology. This collaboration have not been followed up because of problems that arise such as technology gaps, implementation of economies scale that are too small for donor countries, the local content of Smart Kampung that is not suitable.

   b. **Sectoral development policy of the Local Government on The Smart City project in Banyuwangi**.
   During the Covid-19 pandemic, the policies developed were focused on two areas. First, it focuses on managing and empowering MSMEs and leading sectors in order to recover economic conditions that have deteriorated due to the impact of the Covid-19 pandemic. Second, it focuses on village development through digital-based public services. Based on the current situation, some **general policies** for "Smart Kampung" development below.
   - ➤ **Leading sector development**. The current leading sectors are tourism, agriculture and MSMEs. This will be a priority for the elected Bupati to implement in the short term. Tourism is directed at developing networks, increasing marketing and

tourist visits, site and attraction management, branding and heritage. Agricultural technology development.

➤ **Digitalization of services** to close service distances. E-government development is expected to become the foundation of citizen services and become a new tourism destination. E-government tourism is a visit from other regions for comparative studies and MICE tourism.

➤ **Health development and inclusive education**. Development of applications and best practices from Japan for the public security sector, education sector and inclusive technology incubation. Colleges can participate for this incubation. Inclusive health technology and services.

➤ **Disaster mitigation and citizen safety**. Best practices and response studies to prepare for disasters in climate change. Waste and flood handling. The distribution of CCTV is prioritized for the safety and security of citizen

➤ **Utilization of Smart Kampung** for citizen database, MSME database, infrastructure database, health and education database, geospatial database as an increase in transportation access, distribution of citizen production, and increased tourism.

c. **Outline of the Study**

- **Purpose (short-term objective) of the Study**

  This study will help develop an action plan for the expansion of the Smart Kampung platform and identify services to prioritize. Focus on the use of "Smart Kampung" for handling covid, digitizing services or easy access to government services, increasing the citizen database, delivering poverty programs, access to education and health, improving infrastructure to the village.

- **Goal (long-term objective) of the Study or entire project:**

  Expansion of "Smart Kampung" as a village-based digital solution. Several aspects connected to a smart city can be elaborated and used as content for the development of "Smart Kampung", which was originally only based on administrative services. Several development aspects and themes that can be incorporated into the "Smart Kampung" program will be described in the action plan.

- **Scope of the Tentative Action Plan**

  As the development of "Smart Kampung" will be developed to include upgrading of leading sectors (Revitalization of MSMEs, tourism, agriculture). Improved inclusive education and health systems, experience-based health problem management systems, citizen safety management using CCTV (Improved Traffic Monitoring Systems, etc.), Contribution to environmental improvements such as waste management (especially in tourist areas), natural disaster mitigation systems , and maintenance and utilization of geographic spatial data, etc.

- **Proposed Action Plan**

Theme 1. Civic and Social

Taking note of the development of *E-Government* while focusing on the importance of cultural heritage and the potential benefits of the Geopark which are expected to be the foundation of citizen services and become a destination for **E-Gov Tourism** and MICE tourism

Tema 2. Health and Wellbeing

Consider raising **health awareness and providing inclusive education**, as well as mechanisms for detecting and preventing the spread of infection in a pandemic situation, from the perspective of citizen participation.

Tema 3. Safety and Security

Consider effective deployment of CCTV prioritized for the safety and **security of citizens and disaster mitigation** as a preparation for climate change.

Tema 4. Environment and Waste Management

Attention should be paid to waste management with new disposal methods (**renewable**), measures to **reduce** waste and rubbish in tourist areas , conversion of waste into energy (**recycle**), **replace** the use of plastic waste with eco-friendly materials

Tema 5. Infrastructure;

Take note of transportation/mobility within and between regions that takes into account regional characteristics, and **environmentally friendly construction**.

Tema 6. Small Industry and Innovation;

Attention should be paid to the development and use of effective MSME databases, support for innovation in MSMEs, support for innovation in MSMEs, support for recovery from the pandemic, and **revitalization of leading sectors**, is tourism and agriculture.

Tema 7. Technology and Digital Solutions;

Attention should be paid to the **digital solution** integration of administrative services including tax collection, a database of residents linked to geographic information, the creation and utilization of data on tourism resources, and the effective use of electronic payments.

5. **Capacity Building Development Potential**

Several previous offers of cooperation were not followed up because of the problem of lack of understanding of the principle of "Smart Kampung" and technological gaps that occurred in the solutions offered. In a broader sense, Smart Kampung is not only the development of digital solutions but empowerment within villages and residents. one of the problems is the technology gap so that capacity building is needed in several sectors such as tourism, disaster mitigation, solid waste etc.