

SmartCity Approach Model for Government

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Abstract

Smart City is now becoming national strategies in most part of the world including emerging countries like Indonesia. In Indonesia, some cities have already announced their plans to build their city to be smarter cities. Smart City in our definition is about to support the city to achieve their mission by using “smart” and “intelligent” solutions and technologies. These solutions and technologies play an important role to help the efficiency and effectiveness of achieving missions of a city.

Based on our research, every city apparently has its own unique problems. But on the other hand, some cities shown to also have same issues. Some of the issue are congestion, flooding, street vendors and garbage. Not to mention the problems in the education sector, healthcare, road infrastructure and public services. Another thing to be considered on managing the city are People, Process and Technology. Those sectors play very important role to achieve the vision and mission of city mayors.

Therefore a smartcity should become an approach and enabler by many mayors / governors to build a city as expected by their citizens. It has been perceived as a guidance to mayor to serve public services to the citizens more effectively, efficiently and in line with the future digital lifestyle.

Our comprehensive study on assessing which new business model on smart city that can be developed and well implemented, has been successfully carried out on the basis of on 2 categories :

1. Projects that can be funded by government’s annual budget.
 - a. Model 1-A : Government has enough on going annual budget to finance the Project
 - b. Model 1-B : Government does not have enough budget to invest at once but has budget in a longer term.
2. Projects that cannot be funded by government’s annual budget.
 - a. Model 2-A : Government does not have enough budget to finance the Project even for a longer term, but we can generate income from the services and the service is feasible as a business
 - b. Model 2-B : Government does not have enough budget to finance the Project even for a longer term, and we can not generate income from the services

Model-2B is obviously new and can be considered as a new approach for PPP business model in Indonesia. It is an appropriate model to implement Smart City in most of Indonesian Cities as they do not have enough budget to develop all Key Components of Smart City. We also believe that this model could be appropriate for most of developing countries.

As an update, currently TELKOM Indonesia has built a SmartCity Living Lab. This lab will more focus on helping cities solve their problems, customize solutions from many technology owner and provide a bundled ICT solution including network and devices. This will help government officers to discuss with smartcity’s experts and collaborate in some smartcity areas like Smart Transportation, Smart Health, Smart Citizen, Smart Government, etc.