

ABSTRACT

From year to year, the number of urban population has increased, that happen in all around the world including Indonesia. With an 4.1% average growth rate per year, it has been estimated that less than 10 years from now or in 2025, 68% of Indonesian's population is the citizens of the city. The increase of urbanization made the government and private sector to develop their city, for example conducting the construction of buildings, housings, etc. It has to be managed in a smart way, in order to efficiently manage building energy and be able to maintain resident security and comfort. Smart building is part of smart city which has been initiated by many governments including the city of Bandung.

Previous research about smart building was conducted by Indrawati, Yuliastri and Amani (2017) who have found the variables and indicators related to smart building but they have not yet to test a subject and index value has not been found. The purpose of this research is to confirm the subject and to determine smart building index value of readiness.

The method used to achieve that goal is sequential mix method. There are some steps that must be done in this method, each step divided into several stages. First step is search the best practice data in Bandung based on indicators that have been found in previous research. Second step is sources selection based on quadruple helix concept. The sources are government, businessman, experts / researchers, and the community. the third step is after obtained the value and then tested the subject, and last step is to determine index based on the subject that has been tested.

Bandung's city smart building index value of readiness is 64, 39. This indicates that the level of smart building readiness in the city of Bandung is bad, there are still many shortcomings, but still within reasonable limits. Healthy Environment is indicators that have the highest value and indicators that have the lowest value is the analytical data implementation.

It is expected that the government must improve the socialization of new technologies that support smart building implementation. The government also should create a policy for high or new buildings to be able to manage their buildings in a smart way. and the government can provide facility for developers who build a building by using smart building concept.

Keywords : Smart City, Smart Building, Index of Readiness