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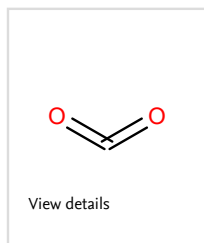
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Abstract

Known as the Rainbow Kampong, the kampong Wonosari is a kampong in the Randusari sub-district, a district within a region of the South Semarang District. Previously known as a slum kampong, people have named the kampong to become the Rainbow kampong due to the thematic kampong program which was accelerated by the Mayor of Semarang city in 2016. The kampong has two RW (Rukun Warga) with a population of more than 3,000 inhabitants. Based on the population data of Randusari sub-district, the RW #3 of the Kampong Wonosari has 1,724 inhabitants divided into 10 RTs (Neighborhood Groups). With this high level of population density the existence of communal space is very important. Refer to the number of households and the low carbon concept, the kampong could reduce the carbon dioxide emission as much as 21.3689% by re-designing the communal spaces. © 2020 Published under licence by IOP Publishing Ltd.

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Erni Setyowati¹, Indriastjario¹ and Isti Astetika Sara¹

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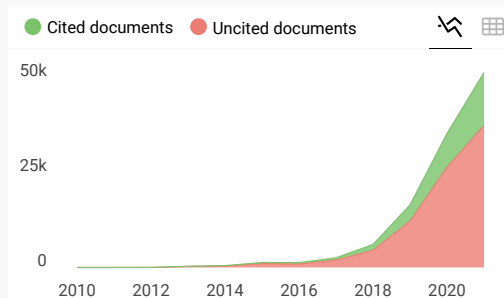
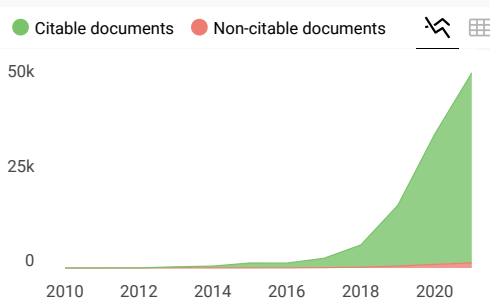
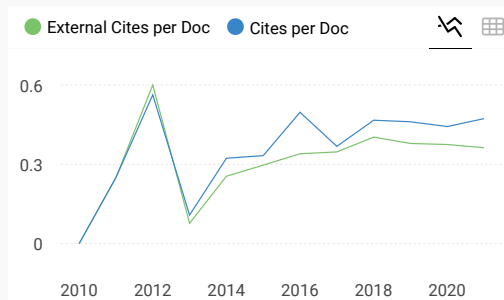
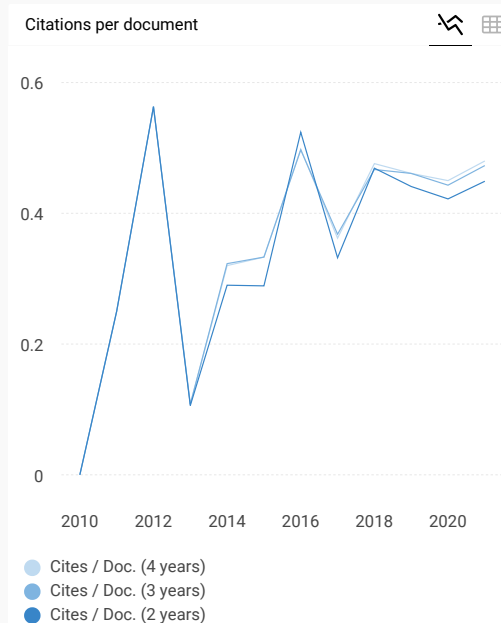
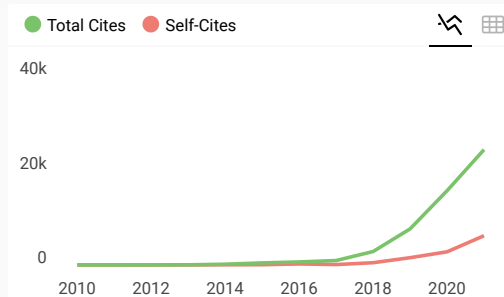
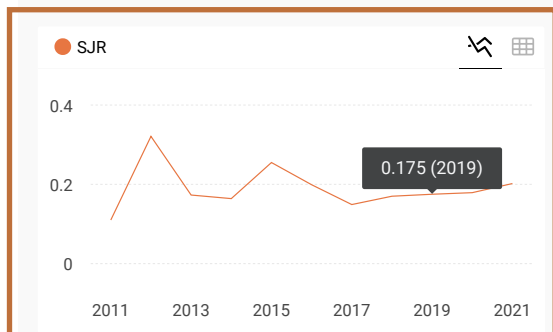
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Melanie Ortiz 3 years ago

SCImago Team

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← reply



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Dear Mahipal.



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Best Regards, SCImago Team

M

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Sincerely,
Mursalin

← reply



Melanie Ortiz 3 years ago

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S

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best regards

syaiful

← reply





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Low carbon society blueprints and primitive attempts of green buildings of existing buildings

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UTM Skudai, Johor DT, **Malaysia**

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Abstract. Rapid development of cities around the world has been the pulling factor for the increased in the rural migration to the cities. It is expected that urban population will increase to more than 60% by 2050 and the biggest growth is expected in the developing countries in Asia. The urban challenges and stresses are contributing to the main issue of climatic changes. One movement to combat and mitigate climate change in the cities is to culture a low carbon urban society. This paper shares the experience of preparing the Low Carbon Society (LCS) Blueprints specifically in matters involving Green Buildings for Iskandar Malaysia and Kuala Lumpur, Malaysia. The focus is on the existing buildings that make up more than 80% of building stocks in the cities. Furthermore, it is easier to manage and regulate new buildings through building submissions whereby the new building has to be designed as green building that will be vetted by respective local authority failing which the building plan will be rejected! Thus, clearly in order to make LCS successfully implemented and achieving target of green building, the most important is the caring for the existing buildings. The paper shares the strategies outlined in the LCS Blueprints and possible approaches to rejuvenate existing buildings into targeted green buildings using low lying fruit strategies before embarking into more expensive active technologies. The layman strategies adopted by house owner in a typical terrace house is used as an interesting case study that is simple and easy to follow with reference to the low-lying fruit principles. The paper discusses on incentives and rewards systems to drive green buildings awareness and implementations of LCS Blueprints for Iskandar Malaysia and Kuala Lumpur. It concluded by showing the illustration of Low Carbon City of the future.

Keywords: urbanisation, climate change, low carbon society, existing building

Introduction

Urbanization is defined as the movement of people from rural to urban areas that provide the increase in the city's population. For some, urbanization is positive move and for others it is seen as rather a negative factor.

At the same time rapid development of infrastructures and economic growth in cities around the world has rapidly increased the rural migration to the major cities around the world. For developing countries like Malaysia and Indonesia, rapid developments of cities are unavoidable as it is the main driving force for economic growth and achieving target of high incomes nation status. But it also provides competitive challenges to urban dwellers in getting good public infrastructure, mass housing, energy, health and education among many others. These urbanization challenges put a burden to the governments that sometimes cause environmental degradation, stresses on employment and social inequality.



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Air temperature and CO₂ concentration in naturally ventilated classrooms in hot and humid tropical climate

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²Universitas Atma Jaya, Yogyakarta, Indonesia

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Abstract. Students at the public primary schools in Medan city, Indonesia, complete 90% of their learning activities in the same classroom, which, in order to save energy, utilises natural ventilation to obtain thermal comfort and fresh air for indoor air quality, which is the physical school environment that impacts the students' achievement. Air temperature is a crucial factor that influences thermal comfort, while the CO₂ concentration determines the quality of fresh air. This paper aims to describe air temperature and the CO₂ concentration in an occupied naturally cross-ventilated classroom in a hot and humid tropical climate, in Medan city, Indonesia. The air temperature and CO₂ level were simultaneously monitored for four days during the students' lesson hours in a school classroom that complies with the regulations of the Ministry of Education of Indonesia about the infrastructure standards for elementary, junior high, and senior high schools. The results of this study showed that air temperature in the classroom exceeded the comfortable temperature, while the median CO₂ concentration was below 1000 ppm as recommended by ASHRAE and WHO.

Keywords: ASHRAE, comfort temperature, CO₂ concentration, natural ventilation, school classroom

1. Introduction

Thermal comfort and air quality form the majority of the elements of the physical school environment, which impact various aspects of student achievements, such as [1]; performance of schoolwork [2]; and the effect on health, comfort, and the cognitive performance of students [3]. Various methods were used to obtain thermal and air quality comfort in the school classroom, using natural ventilation [4,5], mechanical ventilation [6], and a hybrid system that combines natural and mechanical ventilation systems [7]. Using natural ventilation to obtain thermal comfort and indoor air quality is better way to conserve energy.

The thermal comfort zone of the ASHRAE standard 55–1992 in school classrooms using natural ventilation in a hot, humid tropical climate is difficult to achieve [8], even with mechanically ventilation with the help of fans [9]. Several thermal comfort studies in naturally ventilated classrooms in tropical climate in Indonesia have been carried out. Students in a high school in Makassar felt comfortable in a temperature ranging between 28.2 °C in the morning to 33.6 °C midday, with the air humidity ranging between 44 % to 73 % [10]. The comfortable temperature in a naturally ventilated classroom without fans during the learning and teaching activities between



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A study of cisadane riverside on riverbank development towards urban sustainability

Dian Apriliani, Ova Candra Dewi¹

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Abstract. Rivers have immense benefits for the environment and community. They become one of the water resources for the community and an option for community recreation area. Rivers also provide habitat and balance the ecosystem for the environment. Currently, the community is neglecting many rivers in that their water becomes polluted and unusable. This is the reason behind the existence of riverbank development, including in Cisadane Riverside located in Tangerang, Indonesia. This study was carried out in Cisadane Riverside to observe and analyse the elements that constructed the riverbank as public facilities toward sustainable pillars: environment, social and economy for urban sustainability. Observation and interview were conducted in six zones along the Cisadane Riverside. Regarding the riverbank development, it is important to pay attention to the environmental aspect to maintain the urban ecology while achieving the social and economic aspects. In conclusion, the riverbank development that considered the integrated environment, social and economic aspects would create the activity and interaction space for supporting both the urban sustainability particularly for the riverbank itself. The result of this study would be used as the reference for riverfront development towards urban sustainability in Indonesia.

Keywords: riverbank, urban sustainability, ecology, public facilities

1. Introduction

A river is a water flow that forms naturally. The urban river splits and gives impacts to the communities around. The benefits of river for the community and environment include water supply, transportation, water container and biodiversity of flora fauna.

A border area where river meets the city is called riverfront [1]. Riverfront, as one of city's elements that has been developed, affects urban sustainability. Nowadays, many rivers have been polluted so that they cannot be used by the community anymore and affect the urban ecology adversely. Riverbank is an area that lies between river edge and main lane of the city or minimum six metres from nearest mainland to the river's edge [2]. It often becomes a neglected area that harms the environment and its community. Some efforts are carried out by the government to improve both the riverbank and the river itself. Those efforts are activating the riverbank and improving the environment quality that can affect the community activities. The sustainability can be reached only if environment, social and economy aspects are well integrated [3].

According to Breen and Rigby [4], environmental aspects, the biodiversity of flora fauna along with the cleanliness of water and environment, affect the human's health and water resources for the



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Local smart initiatives to enhance sustainable settlement

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Abstract. The New Urban Agenda (NUA) will focus on the Smart City and Sustainable City as influential forces within urban development over the next 20 years. What constitutes a Smart and Sustainable reflects the peculiarities of contexts, needs, interests and approaches to urban development in different countries and regions of the world. Indonesia, for example has adopted a fairly broad approach to smart and sustainability, which extends beyond ICT infrastructure to include local development and community initiatives that aim to improve urban environments, economics and lives. Yet, none has examined the relationship between the model of Smart and Sustainability in the context of settlement-built environment. This paper is based on results of an interdisciplinary research project on “Kampung Innovation in Support of Smart City”. In the project, architects and anthropologists are collaboratively investigating creative and innovative ventures initiated by Kampung communities in Surabaya. In this paper, we present data gathered to date through participant observation and interviews, and discuss its analysis using six components of the Smart City which highlights the Human Driven Approach (HDM) approach. Findings reveal that these kampung communities are making important contributions to Surabaya’s development as both smart and sustainable city through creative and innovative approaches to meeting local economic, social and cultural needs in their settlement.

Keywords: smart initiative, sustainable settlement, Surabaya

1. Introduction

In general, smart city is equated with the use of technology and information in order to maximize existing resources. By building an appropriate intelligent infrastructure, it is expected that services to citizens will become more effective and efficient. For example, Bakici et al. [1] recommend that cities should base their Smart City models on three main pillars: infrastructure, human capital and information, while the Smart City initiative should be a composition of various organisations and departments. Additionally, a city becomes “smart” by being environmentally friendly with green open space, efficient use of energy including smart public transportation, and the application of appropriate technology and additional infrastructure in order to make its usage easier, more efficient and flexible [2].

However, the Smart City concept is not only concerned with the use of technology, information and physical aspects, but it is equally important to include and understand non-physical aspects, such as people’s usage understanding of the concept. Thus, a city needs to increase its social services, its



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Edi Purwanto and Arnis Rochma Harani

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