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## Studi Komparasi Kebertahanan Kota Pasca Bencana Alam

*June Ekawati, Gagoek Hardiman, Edward Endrianto Pandelaki*

### Abstract

Many cities in the world are geographically located in areas prone to natural disasters. This research is a comparative study that aims to compare the strengths, weaknesses, opportunities and challenges of these cities in the process towards a resilient city despite having a high level of vulnerability to natural disasters. Some cities which are taken as case studies here show a good level of resilience to the disasters experienced. Case studies from this study are three cities namely Kobe, in Hyogo (Japan), Padang (Indonesia) and Camalig (Philippines) which use qualitative

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Arsitektura : Jurnal Ilmiah Arsitektur dan Lingkungan Binaan pada Volume 18 Nomor 1 Bulan April 2020 memuat lima belas manuskrip yang mengangkat tema beragam terkait dengan strategi perencanaan dan perancangan serta penelitian arsitektur secara khusus untuk pembahasan budaya dalam arsitektur, sains bangunan, arsitektur *heritage* hingga metode perancangan dan perkembangan dalam arsitektur.

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## Kajian Implementasi Desain Universal Pada Taman Samarendah

### *Study of The Implementation of Universal Design in Taman Samarendah*

**Mafazah Noviana<sup>1\*</sup>, Zakiah Hidayati<sup>2</sup>**

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#### **Abstract**

*City Parks in terms of social functions can be used as a place for social interaction, a means for sports, play and recreation. As a public facility, city parks must accommodate all groups of people, ranging from normal people, children, disabled people and the elderly. One way to provide facilities for all visitors is to apply universal design principles. Universal design aims to facilitate everyone's life through the creation of products, the built environment and communication to be used by as many people as possible and provide added value for everyone. The purpose of this study is to examine the implementation of universal design principles in Taman Samarendah. The location of the study was in Taman Samarendah, using a descriptive qualitative research method. Seven principles of universal design and Permen PUPR No.14/PRT/2017 becomes the guideline and standardization in this study. The results of this study indicate that Samarendah Park has not fully applied the universal design principles and accessibility standards. The most universal principles of design that are not applied are the principle of tolerance for error and the principle of low physical effort. The principle that is most widely applied is the size and space for approach.*

**Keywords:** *accessibility, Taman Samarendah, universal design*

#### **1. PENDAHULUAN**

Kota merupakan kesatuan antara lingkungan fisik kota dan warga kota, tidak hanya sekedar kumpulan gedung-gedung dan sarana fisik lainnya. Sering kali keadaan lingkungan perkotaan menjadi berkembang secara ekonomi, namun menurun secara ekologi. Salah satu usaha untuk menata dan memperbaiki lingkungan melalui pembangunan Ruang Terbuka Hijau (RTH).

Berdasarkan Permen PU No. 5 Tahun 2008 tentang Pedoman Penyediaan dan Pemanfaatan Ruang Terbuka Hijau di kawasan perkotaan bahwa setiap kota di Indonesia menyediakan RTH minimal sebesar 30% dari luas wilayah kota. Di dalam RTRW Kota Samarinda 2014-2034 ruang terbuka hijau publik yang ada saat ini hanya sebesar 22,93 %. Untuk itu Pemerintah Kota Samarinda terus berupaya untuk memenuhi ketentuan tersebut dengan membangun beberapa taman kota.



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## Identifikasi Aspek Pengembangan Kawasan Konservasi Penyu Pantai Trisik sebagai Wadah Wisata Edukasi Penyu di Kulonprogo

### *Identification of the Development Aspects of Trisik Beach Sea Turtle Conservation Area as a Turtle Education Tourism Object in Kulonprogo*

**Chiquita Darmarani<sup>1\*</sup>, Mohamad Muqoffa<sup>2</sup>, Ummul Mustaqimah<sup>3</sup>**

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#### **Abstract**

Sea turtle is classified into endangered animal. One of the areas which is designated as sea turtle conservation area in Indonesia is located at Trisik Beach, Kulonprogo. The government's sea turtle conservation effort is supported by the Penyu Abadi Conservation Group, that has been carrying out sea turtle conservation activities since 2004. By the development of this conservation activities, in 2018, Dinas Pariwisata Daerah Istimewa Yogyakarta finally planned a development program for the attractiveness of sea turtle conservation areas on the southern coast of Yogyakarta, including Trisik Beach. One form of developing the attraction of conservation areas is sea turtle educational tourism object. The development of a sea turtle conservation area into a tourist attraction for sea turtle education should not disturb the balance of the natural ecosystem of Trisik Beach sea turtle nesting. Therefore, the problem formulated in this research is what aspects must be fulfilled to realize the recreational sea turtle educational tourism, by paying attention to its main function as a supporter of regional marine conservation activities. The problem solving is done by applying the applied research methods, namely the type of research that aims to provide practical solutions for the problem. This research produced some guidelines that can be implemented in the development of Trisik Beach sea turtle conservation area, to be the basis for future development planning.

**Keywords:** sea turtle conservation, educational tourism, Trisik Beach, recreational design principle, development of regional marine conservation areas principle

#### **1. PENDAHULUAN**

Penyu merupakan reptil laut yang masuk ke dalam daftar hewan terancam punah. Keberadaannya

telah lama terancam, baik dari alam maupun kegiatan manusia. Pergeseran fungsi lahan, pengelolaan teknik konservasi yang tidak





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## Pengaruh Perubahan Fungsi Terhadap Tipologi Arsitektur Fasad Bangunan di Kampung Wisata Prawirotaman

### *The Function Changes Impact to Facade Typology in Kampung Wisata Prawirotaman*

**Aprodita Emma Yetti**<sup>1\*</sup>, Tika Ainnunisa Fitria<sup>2</sup>, Indah Pujiyanti<sup>3</sup>

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#### **Abstract**

*The final results of this study describe the impact of changes in building functions on the facade typology in Kampung Prawirotaman. These results can be used for reference and consideration in the character and visual development of Kampung Prawirotaman. Kampung Prawirotaman is one of the tourism destination in Yogyakarta. Through a long history, Kampung Prawirotaman which is known as a batik village has been transformed into a tourism village. This area is supported by infrastructure and strategic locations. This area is close to the city center and the other tourist destinations. Kampung Prawirotaman had an architectural heritage that form of the visual characters from the adaptation of traditional and "indis" architecture. Now, the community develop the tourism facilities as independently and spontaneously in this area. The tourism facilities has resulted in changes the various building facade elements in Kampung Prawirotaman. The research used descriptive qualitative method with architectural typology approach.*

**Keywords:** *tourism village, architecture, typology, façade, transform*

#### **1. PENDAHULUAN**

Kampung Prawirotaman merupakan hunian bagi prajurit Kraton Kasultanan Yogyakarta di abad 19 sebagai wujud perhatian dari Sultan atas keterlibatan prajurit melawan penjajah. Keturunan prajurit Prawirotomo dikenal sebagai pengusaha batik cap dan kain tenun ATBM (Alat Tenun Bukan Mesin) yang akhirnya membuat Prawirotaman dikenal sebagai Kampung Batik hingga tahun 1970. Sekitar tahun 1970, usaha batik masyarakat

meredup yang disebabkan menurunnya permintaan pasar dan tergerus importir dari negara lain. Seiring berkembangnya industri pariwisata di Yogyakarta, roda perekonomian masyarakat di Kampung Prawirotaman perlahan beralih ke industri pariwisata. Letak Kampung Prawirotaman yang strategis menjanjikan industri pariwisata berkembang.

Saat ini, Kampung Prawirotaman bertransformasi menjadi salah satu Kampung Wisata yang mendukung industri pariwisata



Volume 18 Issue 1 April 2020, pages:63-73

## Peningkatan Kenyamanan Termal dan Pencahayaan Alam Gedung Sekolah Dasar di Kawasan Padat Hunian di Surabaya

### *Thermal and Daylighting Design Improvement of an Elementary School Building In Densely Populated Area In Surabaya*

**Sri Nastiti N. Ekasiwi**<sup>1\*</sup>, I Gusti Ngurah Antaryama<sup>2</sup>, Erwin Sudarma<sup>3</sup>, Ima Defiana<sup>4</sup>, Asri Dinapradipta<sup>5</sup>, FX Teddy Badai Samodra<sup>6</sup>, Bambang Soemardiono<sup>7</sup>, Irvansyah<sup>8</sup>, Angger Sukma<sup>9</sup>, Colinthia Erwindi<sup>10</sup>

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#### **Abstract**

*A humid tropical climate characterized by high temperatures, relative humidity and solar radiation results in uncomfortable environmental conditions. Discomfort will be worse if the building is in a dense urban area. Densely building masses often weaken the local wind speed which is necessary for evaporative cooling process in tropical climate. In addition, the narrow distance between buildings can reduce access to daylight. Both of these environmental problems were experienced by SDIT Al Uswah Surabaya, which building is located in a densely populated neighbourhood. Along with the development program of educational facilities and infrastructure at the school, improving environmental conditions with passive concept is maintained and prioritized. Embodiment of the environment with the Selective Environment approach is used in this activity. The results of this activity will be in the form of design proposals for improving ventilation and lighting in classrooms. The limitation of expanding openings becomes an obstacle in fulfilling the natural ventilation and lighting requirements. In addition, the design of a three-storey building with a single loaded corridor requires special consideration for the design of sun shading that is safe for elementary school-age children, but still supports passive lighting and ventilation.*

**Keywords:** thermal environment; daylighting environment; elementary school; comfort and healthy environment; dense urban area; Kampung Kejawan Surabaya

#### **1. PENDAHULUAN**

Desain arsitektur sangat erat hubungannya dengan iklim dan kenyamanan pengguna. Ketiga hal tersebut digambarkan sebagai Vitruvian Tripartite Model of Environment oleh Hawkes et.al, (2001). Arsitektur mempunyai peran dalam desain lingkungan, dimana bentuk dan bahan

bangunan bertindak sebagai perantara antara lingkungan alam yang terbentuk (iklim), dan kondisi lingkungan yang didalamnya harus menciptakan lingkungan yang nyaman (*comfort*). Terkait dengan hal tersebut, arsitektur dipengaruhi oleh iklim setempat.

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