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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH

Judul karya ilmiah (artikel) : Community Participation Pattern in Communal Village Land Utilization

Jumlah Penulis : 4 penulis

Status Pengusul : Zaflis Zaim, **Iwan Rudiarto**, Imam Buchori, Ade Wahyudi

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : International Review for Spatial Planning and Sustainable Development
- b. Nomor ISSN : 2187-3666
- c. Vol.,no.,bulan,tahun : 8, 3, July 2020
- d. Penerbit : J-STAGE, International Community of Spatial Planning and Sustainable Development
- e. DOI artikel (jika ada): https://doi.org/10.14246/irspsd.8.3_54
- f. Alamat web jurnal : https://www.jstage.jst.go.jp/article/irspsd/8/3/8_54/article/-char/en
- g. Terindeks di SJR Q2 0,227 (2019) dan SNIP 0,504 (2019)

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- b. Isi artikel tentang *Communal Village Land Utilization* yang merupakan salah satu bentuk implementasi pengelolaan lahan di atas tanah komunitas (bengkok). Artikel hanya membahas pada aspek user dan responsibility-nya sehingga kurang begitu komprehensif. Penulis sudah bisa memberikan gambaran transformasi pengelolaan lahan bengkok dari waktu ke waktu. Artikel sesuai

dengan bidang ilmu penulis dalam konteks pengelolaan lahan pedesaan. Sebanyak 16 rujukan (31%) dipakai dalam pembahasan yang sebagian besar berasal dari artikel jurnal.

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Semarang, 29-07-2020

Reviewer 1,



Prof. Dr. Ir. Nany Yuliasuti, MSP
NIP. 195407171982032001
Departemen PWK, FT. Undip

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Yogyakarta, 27-07-2020

Reviewer 2,



Prof. Ir. Bakti Setiawan, M.A., Ph.D

NIP. 195906281985031006

Departemen Arsitektur dan Perencanaan, FT. UGM

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a.Kelengkapan unsur isi artikel (10%)	3,5	4,0	3,75
b.Ruang lingkup dan kedalaman pembahasan (30%)	10,5	9,0	9,75
c.Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	10,0	11,0	10,5
d.Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	11,5	11,0	11,25
Total = (100%)	35,5	35,0	35,25
Nilai = (40% x 35,25 : 3)			4,7

Semarang, 03-08-2020

Reviewer 1,



Prof. Dr. Ir. Nany Yulastuti, MSP
 NIP. 195407171982032001
 Departemen PWK FT.Undip

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


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International Review for Spatial Planning and Sustainable Development
Volume 8, Issue 3, 2020, Pages 54-67

Community participation pattern in communal village land utilization (Article)

Zaim, Z.^a , Rudiarto, I.^b , Buchori, I.^b , Wahyudi, A.^a 


^aUrban and Regional Planning, Universitas Islam Riau, Indonesia
^bDoctoral Program in Architectural and Urban Sciences, Diponegoro University, Indonesia

Abstract

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Customary land tenure associated with land administration systems have begun to receive attention through research. A recent study discusses the practice of land release to gain insight into the forces that underpin transformation of customary land rights. However, few studies address the ability to negotiate and adapt to customary land tenure. This study fills this gap, especially the utilisation of Bengkok land as village-owned land and explores the knowledge that drives changes in customary land management rights in Indrokilo sub-village. Data were collected through surveys and interviews addressed to respondents as Bengkok land users and key actors. The results of the study indicate that the change in Bengkok Bayan's land management rights to collective rights of farmer groups has been affected by four conditions, namely: the vacancy of the village official (Bayan), the village land leasing system, sanitation programme socialisation, and resident participation. The aspirations of the farmer groups are accommodated by the village government in the form of a village head's decree and the terms of land rent compensation. Adaptation of farmers, farmer groups and village government is manifested in the form of land use arrangements as kandang kawasan (cattle pen), separation of cattle pens and houses, as well as Bengkok land rental systems. Changing the Bengkok land management rights for communal interests requires legal strengthening through regional regulations in order to recognise the existence of farmer groups, promote justice, and reduce poverty for the sustainability of suburban area development. © 2020, SPSD Press.

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Characteristics of spatio-temporal urban growth patterns due to the driving forces of urbanization: *The Coastal City of Antalya, Turkey*

Merve Yılmaz^{1*} and Fatih Terzi¹

1 Department of Urban and Regional Planning, Faculty of Architecture, Istanbul Technical University

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Received: October 20,2019 Accepted: April 10, 2020

Key words: Antalya, Coastal City Morphology, Multi-Temporal Satellite Images, Remote Sensing, Urban Spatial Growth

Abstract: Urban growth patterns are a reflection of how urbanization is affected by physical geography as well as by the economic, social, and natural factors of individual cities. Therefore, an analysis of any urban growth pattern triggered by these factors by using measurable variables can make a significant contribution towards the determination of future spatial growth strategies. This paper aims to characterise and evaluate the urban growth pattern of Antalya, a coastal city in Turkey, that occurred between 1987 and 2016. To achieve this, a multi-temporal analysis of satellite images was carried out to determine the city's urban growth patterns in 1987, 2000, and 2016, and spatial growth indices were then used to identify three urban growth types – sprawl, infill, and leapfrog. The results clearly show that the amount of built-up area in Antalya increased considerably after 2000, and is estimated to have grown by a factor of eight over the period covered by this study, predominantly through the processes of sprawl and leapfrog development.

1. INTRODUCTION

Demands for land use result in the conversion of natural areas and also accelerates urbanization, thereby creating pressure on the natural environment (Pickett et al., 2001; Sekovski, Newton, & Dennison, 2012). Maintaining the link between sustainability and urban form requires a balance that allows sustainable urban growth, but urbanization and the spread of built-up areas can lead to a series of unintended results. These often include an increase in impervious surfaces, changes to surface water drainage lines, disruption of the hydrology cycle, and negative microclimatic effects (Erell, Pearlmutter, & Williamson, 2011; McCarthy, Best, & Betts, 2010; Yılmaz & Terzi, 2018). Arguably, the most serious reasons for the latter are the creation of intense/high heat islands (Gartland, 2010; Jusuf et al., 2007; Li, Y. y., Zhang, & Kainz, 2012), and increased greenhouse gas emissions (McCarthy, Best, & Betts, 2010). In addition, urbanization around rivers and surface water drainage areas adversely affects the ecosystems and habitats often present at the land-water transition point. This gives rise to a requirement that in such cases the specific type of urban growth should be

Impact Mechanism and Improvement Strategy on Urban Ventilation, Urban Heat Island and Urban Pollution Island: A Case Study in Xiangyang, China

Qingming Zhan^{1,2*}, Sihang Gao^{1,2}, Yinghui Xiao^{1,2}, Chen Yang^{1,2}, Yihan Wu^{1,2}, Zhiyu Fan^{1,2}, Jiaqi Wu^{1,2}, Meng Zhan^{1,2}

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Received: November 11, 2019 Accepted: June 01, 2020

Key words: Urban Ventilation Corridors Planning, Urban Thermal Environment, Computational Fluid Dynamics, Geographically Weighted Regression, Remote Sensing, Urban Air Pollution

Abstract: There has been a growing interest in finding mitigation measures for urban heat islands and urban pollution islands that focus mainly on urban landscape mechanisms. However, relatively little research has considered spatial non-stationarity and temporal non-stationarity, which are both intrinsic properties of the environmental system, simultaneously. At the same time, the relevance of and differences between the thermal environment and air pollution has also been rarely discussed, and both issues are of great importance to urban planning. In this study, which is aimed at improving urban ventilation to reduce the urban heat island and urban pollution island effects, an urban ventilation potential evaluation, land surface temperature time-series clustering and air pollution source identification are comprehensively applied to identify the operational areas, compensation areas and ventilation corridors in Xiangyang, China, thus bridging the gap between academic research and urban planning. The specific research areas include: (1) defining the operational areas for urban ventilation corridor planning through an urban ventilation potential evaluation featuring urban morphology indicators, land surface temperature time-series clustering with *k*-means and an urban air pollution source diffusion analysis via the Hybrid Single-Particle Lagrangian Integrated Trajectory (HYSPLIT) and geographically weighted regression (GWR) methods; (2) identifying urban cold islands through land surface temperatures and delimiting the compensation areas in urban ventilation corridor planning; (3) designating urban ventilation corridors through an urban ventilation potential evaluation and computational fluid dynamics (CFD); and (4) improving urban ventilation corridor planning through defining operational areas, compensation areas and ventilation corridors as well as proposing corresponding control measures.

1. INTRODUCTION

Rapid urbanization has been changing urban forms and functions continuously ([Stone, 2009](#)), as manifested in increasing surface roughness ([Chen, Liang & Dirmeyer, 2019](#)), decreasing ventilation potential, the expansion of impervious surfaces ([Yang, Chen et al., 2019](#)) and the weakening of surface transpiration ([Dienst, Lindén, & Esper, 2018](#)). These changes make