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Utilization of Online Geospatial Data Sources for Oikonym Study: Mapping and Analysis of Housing Name in Capital Area of Kulon Progo Regency

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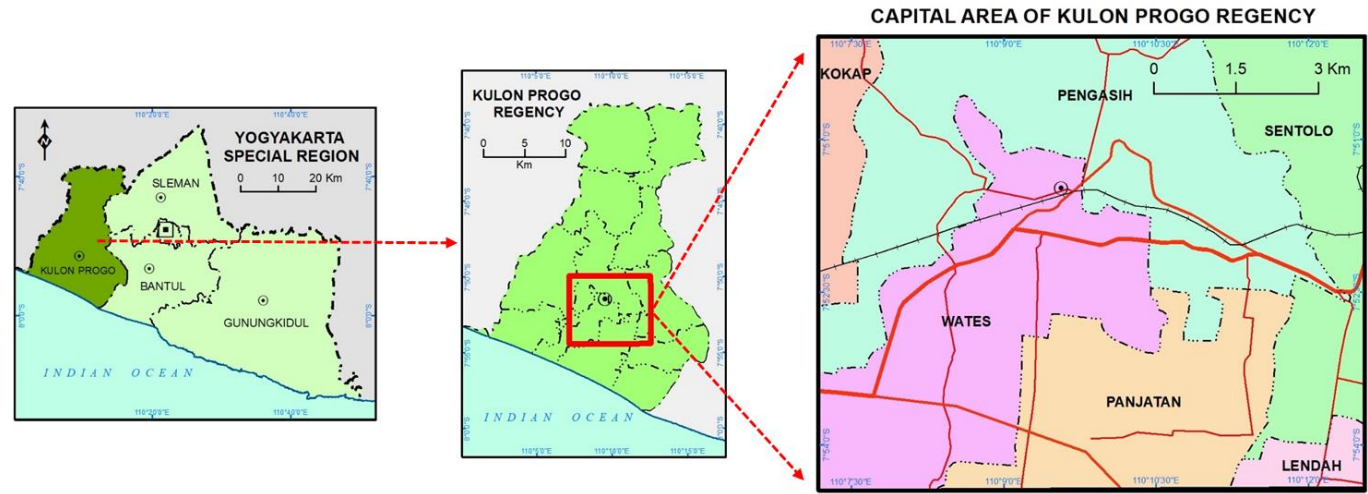
Introduction

- A toponym is the name used to identify a specific location on the landscape [1], while Oikonym is a part of toponym that focus the study on the name given to inhabited place. [3]
- Study of toponym could be conducted in many different ways but there are two basic ways or approach, i.e. intensive toponym and extensive toponym. [4]-[6]
- Toponym research from geographical perspective commonly falls in the second approach i.e. extensive toponym
- Oikonym as part of toponym is supposedly to have a function or served as social, as well as regional identity. [10], [11]
- Kulon Progo is one of the regencies in Yogyakarta special region. As a part of Yogyakarta special region, Kulon Progo should inherit privileged historical values of Yogyakarta. However, whether oikonym i.e., housing name in this area could represent social and regional identity and characteristic, is remain unexplored.

Method

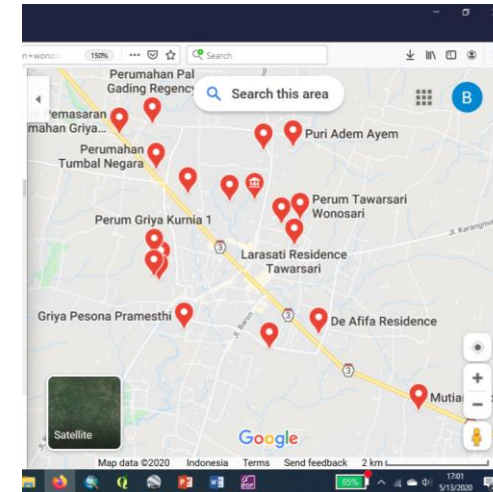
1. Study Area

Area around governmental activities i.e., capital area of Kulon Progo Regency



2. Data Acquisition and Analysis

- Preliminary Virtual Survey (Google Map): Collecting initial information about housing and the name of housing, obtaining coordinates of the housing
- Digitizing the boundary of housings (Google Earth Pro)
- Collecting literal meaning of the housing names
- Classification of housing names based on generic and specific element
- Spatial analysis of geographical characteristic of housing location



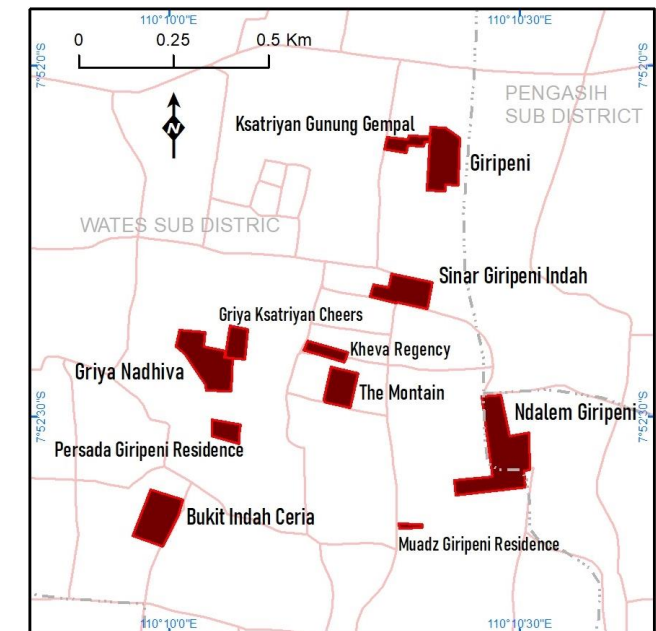
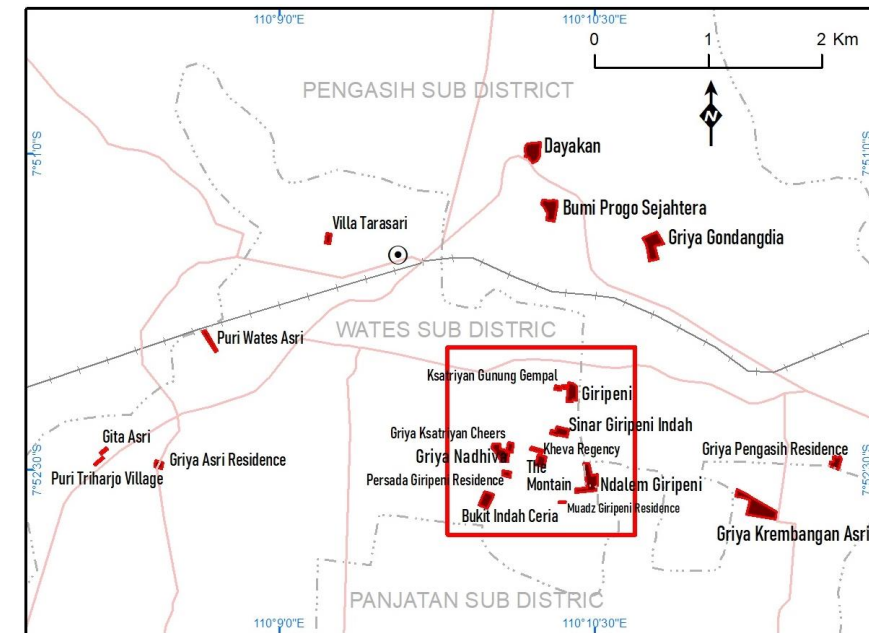
Result and Discussion

- Spatial distributions of the housings in the capital area of Kulonprogo Regency
- Typology of housing name

TABLE III: Typology of housing name in the capital area of Kulon Progo Regency

Housing Name	Generic		Specific		Literal Meaning of Specific Name
	Name	Class	Name	Class	
Bukit Indah Ceria	None	None	Indah Ceria	I	Lovely cheers
Bumi Progo Sejahtera	None	None	Bumi Progo Sejahtera	I	Prosperous places (on earth)
Dayakan	None	None	Dayakan	I	Name of traditional dance
Giripeni	None	None	Giripeni	I	Name of village (Giripeni)
Gita Asri	None	None	Gita Asri	I	Beautiful or lovely song
Griya Asri Residence	Griya/Residence	I-A	Asri	I	Beautiful
Griya Gondangdia	Griya	I	Gondangdia	I	Name of conch-like fauna
Griya Krembangan Asri	Griya	I	Krembangan Asri	I	Beautiful, lovely
Griya Ksatriyan Cheers	Griya	I	Cheers	A	Cheers
Griya Nadhifa	Griya	I	Nadhifa	A	Clean, neat, sanitary
Griya Pengasih Residence	Griya	I	Pengasih	I	Name of district (pengasih)
Kasatriyan Gunung Gempal	Kasatriyan	I	Gunung Gempal	I	The place of the knights
Kheva Regency	Regency	A	Kheva	A	Graceful, elegant
Muadz Giripeni Residence	Residence	A	Muadz Giripeni	A	Name of Islamic figure
Ndalem Giripeni	Ndalem	I	Giripeni	I	Nama kelurahan
Persada Giripeni Residence	Persada/Residence	I-A	Giripeni	I	Name of village (Giripeni)
Puri Triharjo Village	Puri/Village	I-A	Triharjo	I	Name of village (Triharjo)
Puri Wates Asri	Puri	I	Wates Asri	I	Beautiful, lovely
Sinar Giripeni Indah	None	None	Sinar Giripeni Indah	I	Beautiful light, glow
The Mountain	None	None	The Mountain	A	Mountain
Villa Tarasari	Villa	A	Tarasari	I	Compound flowers

Source: Data analysis (2020)



Result and Discussion

TABLE IV: Summary of name typology and geographical characteristic of housings in the capital area of Kulon Progo Regency

Typology of Housing Name		Geographical Characteristic					
Category	Generic Name	Count	Average of Area (km ²)	Average of Elevation (m)	Average of Distance (km)	Average of Road Density (km/km ²)	Average of Slope (%)
Adopted (A)	Regency	1	0.31	25.86	3.37	10.78	5.55
	Residence	1	0.10	53.87	3.90	4.38	0.57
	Villa	1	0.42	13.03	0.53	6.10	1.39
Summary of Category A		3	0.28	30.92	2.60	7.09	2.50
Indigenous (I)	Griya	5	1.71	35.76	4.01	6.67	7.30
	Kasatriyan	1	0.35	18.23	3.14	3.63	1.25
	Ndalem	1	2.03	33.14	3.89	5.37	7.85
	Puri	1	0.64	11.38	1.91	4.28	0.93
Summary of Category I		8	1.45	30.19	3.62	5.83	5.82
Blended (I-A)	Griya/Residence	1	0.39	6.22	3.12	8.43	0.04
	Persada/Residence	1	0.35	37.60	3.72	7.56	5.71
	Puri/Village	1	0.18	6.50	3.41	7.75	0.35
Summary of Category I-A		3	0.31	16.78	3.42	7.91	2.04
None	None	7	1.14	27.57	3.11	6.84	3.51

Source: Data analysis (2020)

Conclusion

- This study shows, about 57% of housings which have generic name, use indigenous element i.e., local language. In addition, about 80% of housings use indigenous element for their specific names.
- Words of indigenous language which frequently used as generic name for housing in study area are griya, kasatriyan, ndalem, persada and puri.
- Online geospatial data sources and other type of online resources provide valuable contribution to the study of oikonym. This study shows how these online resources can be utilized to reveal useful information related to housing name.

References

- [1] R.R. Hanks, *Encyclopedia of Geography Terms, Themes, and Concepts*, ABC-CLIO, LLC, Santa Barbara, California, 2011.
- [2] L. Radding, and J. Western, “What’s In A Name? Linguistics, Geography, And Toponyms,” in *The Geographical Review*, vol. 100, no. 3, pp. 394-412, 2010.
- [3] G. Beconyte, J.D. Budrevicius, I. Ciparyte, and A. Balciunas, “Plants and animals in the oikonyms of Lithuania,” in *Journal of Maps*, vol. 15, no.2, pp. 726-732, 2019.
- [4] J. Tent, “Approaches to Research in Toponymy,” 2015, in *Names: A Journal of Onomastics*, vol. 63, no. 2, pp. 65–74, 2015.
- [5] J. Tent, and D. Blair, “Motivations for Naming: The Development of a Toponymic Typology for Australian Placenames”, in *Names: A Journal of Onomastics*, vol. 59, no. 2, pp. 67–89, 2011.
- [6] J. Nash, “The How of Toponymy: A Comment on Tent’s “Approaches to Research in Toponymy”,” in *Names: A Journal of Onomastics*, vol. 63, no. 4, pp. 233–236, 2015.
- [7] F. Wang, L. Zhang, G. Zhang, and H. Zhang, “Mapping and spatial analysis of multiethnic toponyms in Yunnan, China,” in *Cartography and Geographic Information Science*, vol. 41, no.1, pp. 86-99, 2014.
- [8] S. Qian, M. Kang, and M. Wang, “An analysis of spatial patterns of toponyms in Guangdong, China,” in *Journal of Cultural Geography*, vol. 33, no. 2, pp. 161-180, 2016.
- [9] S. Qian, M. Kang, and M. Weng, “Toponym mapping: a case for distribution of ethnic groups and landscape features in Guangdong, China,” in *Journal of Maps*, vol. 12, no. S1, pp. 546-550, 2016
- [10] U. Hakala, P. Sjoblom, and S. Kantola, “Toponyms as carriers of heritage: implications for place branding”, in *Journal of Product & Brand Management*, vol. 24, no. 3, pp. 263-275, 2015.
- [11] A. Mueller, and M. Schade, “Symbols and place identity: a semiotic approach to internal place branding – case study Bremen (Germany)”, in *Journal of Place Management and Development*, nol. 5, no. 1, pp. 81-92, 2012.