Community participation form and level in the development of Geotourism in Wonocolo Village, Bojonegoro Regency

H Idajati¹, A F Calyandra¹ and F U Nurliyana¹

¹ Urban and Regional Planning Department, Faculty of Civil Engineering, Planning, and Earth, Sepuluh Nopember Institute of Technology, Surabaya 60111, Indonesia.

Abstract. Wonocolo Village is a village in Bojonegoro Regency with geology-based tourism potentials under development, i.e., Geopark Wonocolo, or commonly known as Teksas Wonocolo based on Bojonegoro Tourism Development Master Plan 2019-2034. Besides, this village has pokdarwis (tourism conscious group) as the tourism developer and manager in Wonocolo Village. However, under its development, several problems still exist. One of which is the constant local community participation condition because most of the community has not seen the potential. Also, the offered attractions are monotonous, e.g., it only has a tour guide and education activities in the Geopark museum. This study aimed to identify community participation forms and levels in Wonocolo Village concerning geotourism development. In determining community participation forms and levels, the qualitative descriptive analysis technique was used by involving stakeholders, which has been predetermined as respondents that consisted of governments, private sector, public sector, and the community. Based on the study results, community participation forms and levels were discovered.

Keywords: Geotourism, Qualitative Descriptive Analysis, Community Participation Forms, Community Participation Levels.

1. Introduction
Geotourism is a special interest tourism activity that mainly focuses on geological features on the earth's surface or below to promote understanding regarding the living environment, nature, and culture, as a further appreciation, conservation activity, and have concern for the preservation of local wisdom [1]. Tourism development through geotourism is presented in Indonesia as a solution to utilize geological wealth and its dynamics for environmentally friendly tourism and economic activities. Furthermore, this tourism development through geotourism should consider several aspects, i.e., geology, sustainability, educative, and community participation [2].

Bojonegoro Regency is a region with natural and cultural tourism object potentials and receives domestic tourists' attention. This condition is encouraged by topographic condition, geographic condition, socio-cultural condition, and natural wealth. Besides, the presence of tourism objects developed in Bojonegoro Regency also adds Locally-Generated Revenue (PAD) of Bojonegoro Regency [3]. According to the document [3], one village in which its tourism object is being developed in Bojonegoro Regency is the Wonocolo Village, Kedewan Sub-District, Bojonegoro Regency, which is commonly known to locals as a traditional oil well education tourism and possesses a tourism appeal of Geopark Teksas Wonocolo.

It is mentioned that visitor numbers in Bojonegoro continue to increase annually. It is recorded that the tourism visit in 2017 was 693,611 people and increased to 1,184,426 people in 2018 or an
increment of 70.76% [3]. This condition also occurred in Wonocolo Village, particularly at the Teksas Wonocolo, with 5,719 visitors in 2017 that increased 70% to 11,663 visitors in 2018 [4].

Moreover, in Wonocolo Village, tourism management has been implemented by the establishment of the Tourism Conscious Group (Pokdarwis) of Little Texas Petroleum. Pokdarwis came from village youths who were motivated to manage tourism potentials in Wonocolo Village. Another reason for the Pokdarwis of Little Texas Petroleum establishment was because they foresaw tourism potentials in Wonocolo Village [5]. However, the increased visitor number and pokdarwis establishment are insufficient on the community engagement or participation in Wonocolo Village to take part in developing the tourism site of Teksas Wonocolo. The community is more focused on mining oil as their primary occupation and pokdarwis is the only one who takes part in developing the tourism site [6]. Although pokdarwis has tried to develop the tourism site in Wonocolo Village, tourism activities in the site are inadequate and monotonous. For instance, only tour guides and education activities are available in the Geopark museum. The community is also unable to see that the tourism sector is a promising occupation that can improve the economy. It is visible from the amount of unemployment of workforce in Wonocolo Village of 1103 people [7].

By looking at the condition of Wonocolo Village that changes into a tourism site, the community should utilize such potentials by improving their participation in developing and managing the Geopark Wonocolo tourism. Therefore, the development will generate variations of attractive tourism activities and creating new jobs in the tourism sector to increase the local community’s economic status [8]. Community participation is vital because a tourism development without community participation is almost impossible to realize. The local community participation in tourism is considered as an initial change to support the development [9].

Based on the condition above, it is discovered that community participation in developing and managing the tourism site in Wonocolo Village was not optimal. Therefore, a study to identify community participation characteristics in Wonocolo Village to improve community participation and develop geotourism was conducted.

2. Research Methods

2.1. Study Type and Approach
In this study, the approach used was the rationalistic approach. The study type was qualitative descriptive.

2.2. Study Variables
Study indicators used to determine community participation forms and levels in the geotourism development in Wonocolo Village were educative, tourism appeal, economic improvement, service, tourism accommodation, institutions in tourism management, and government support.

| Indicator          | Variable                                      |
|--------------------|-----------------------------------------------|
| Educative          | Education for the Local Community             |
|                    | Education for Tourists                        |
| Tourist Attraction | Natural Attraction                            |
|                    | Artificial Attraction                         |
| Economic Improvement| New Job                                      |
|                    | Community Income Improvement                  |
| Service            | Tourism Facility                              |
| Tourism Accommodation| Accommodation Availability in Wonocolo     |
There are comparison between variable and level of participation which described on table 2 and table 3. The same as table 2, table 3 also explained how to determine the level of participation for each variable.

**Table 2. Parameters Determination of Community Participation Rate in Geotourism Tourism Development in Wonocolo Village**

| Participation Levels | Variable Determination of Increased Community Participation in Geotourism Tourism Development In Wonocolo Village |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Manipulative         | Education for the Local Community: The community only receive and has no role in realizing the form of educational activities for local communities |
|                      | Education for Tourists: The community only receive and has no role in realizing the form of educational activities for tourists |
|                      | Natural Attraction: The community only receive and has no role in the management and development of natural attractions |
|                      | Artificial Attraction: The community only receive and has no role in the management and development of artificial attraction |
|                      | New Job: The available employment opportunities are minimal, there is no role in the creation and development of new jobs |
| Informative          | Education for the Local Community: The community began to hold information regarding the form of educational activities for local communities |
|                      | Education for Tourists: The community began to hold information regarding the form of educational activities for tourists |
|                      | Natural Attraction: The community began to hold information related to the management and development of natural attractions |
|                      | Artificial Attraction: The community began to hold information related to the management and development of artificial attraction |
|                      | New Job: The community began to provide information related to the creation and development of new jobs |
| Communicative        | Education for the Local Community: The community consult on the form of educational activities for local communities |
|                      | Education for Tourists: The community consult on the form of educational activities for tourists |
|                      | Natural Attraction: The community consult on the management and development of natural attractions |
|                      | Artificial Attraction: The community consult on the management and development of artificial attractiveness |
|                      | New Job: The community consult on the creation and development of new jobs |
| Incentive            | Education for the Local Community: The community seek funds from wages or incentives to carry out some form of educational activities |
|                      | Education for Tourists: The community seek funds from wages or incentives to carry out forms of educational activities |
|                      | Natural Attraction: The community seek funds from wages or incentives to carry out the management and development of natural attractions |
|                      | Artificial Attraction: The community seek funds from wages or incentives to manage and develop the management and development of artificial attraction |
|                      | New Job: The community seek funds from wages or incentives to create and develop new jobs |


| Participation Levels | Variable Determination of Increased Community Participation in Geotourism Tourism Development In Wonocolo Village |
|----------------------|-------------------------------------------------------------------------------------------------------|
|                      | Education for the Local Community | Education for Tourists | Natural Attraction | Artificial Attraction | New Job |
| Functional           | for local communities The community held a joint meeting with external parties to provide forms of educational activities for local communities | for tourists The community held a joint meeting with outside parties to provide forms of educational activities for tourists | development of natural attractions The community held a joint meeting with outsiders to manage and develop natural attractions | artificial attraction The community held a joint meeting with external parties to manage and develop the artificial attraction | The community held a joint meeting with external parties to create and develop new jobs |
| Interactive          | The community takes decisions in plans and programs for the form of educational activities for local communities | The community takes decisions in plans and programs for the form of educational activities for tourists | The community takes decisions in plans and programs for the management and development of natural attractions | The community takes decisions in plans and programs for the management and development of artificial attraction | The community takes decisions in plans and programs for the creation and development of new jobs |
| Self Mobilization    | The community is fully responsible and independent in the educational process for existing local communities | The community is fully responsible and independent in the educational process for existing tourists | The community is fully responsible and independent in the process of managing and developing existing natural attractions | The community is fully responsible and independent in the process of managing and developing the existing artificial attraction | The community is fully responsible and independent in the process of creating and developing new existing jobs |

Source: Analysis, 2020

Table 3. Parameters Determination of Community Participation Rate in Geotourism Tourism Development in Wonocolo Village

| Participation Levels | Variable Determination of Increased Community Participation in Geotourism Tourism Development In Wonocolo Village |
|----------------------|-------------------------------------------------------------------------------------------------------|
|                      | Community Income Improvement | Tourism Facility | Supporting Infrastructure | Accommodation Availability in Wonocolo | The role of tourism management and development agencies | Government support in determining policy |
| Manipulative         | The community only receive rough income, there is no role in efforts to increase communities income | Tourism facilities available roughly, there is no role in the provision of tourist facilities | Supporting infrastructure available roughly, there is no role in the provision supporting infrastructure | No community participation in the provision of accommodation | There is no community role for managers in tourism development | There is no public role to support the government in policy determination |
| Informative          | The community began to conduct information related to activities to increase communities income | The community began to provide information regarding the provision of tourist facilities | The community began to provide information on the provision of infrastructure | The community began to hold information regarding the provision of accommodation | The community began to hold information related to the management in tourism development | The community began to hold information on government support in policy determination |
| Communicative        | The community consults on activities to increase communities income | The community consults on the provision of tourist facilities | The community consults on the provision of supporting infrastructure | The community consults on the provision of accommodation | The community consults on the establishment of managers in tourism development | The community consults on government support in policymaking |
Participation Levels | Community Income Improvement | Tourism Facility | Supporting Infrastructure | Accommodation Availability in Wonocolo Village | The role of tourism management and development agencies | Government support in determining policy
---|---|---|---|---|---|---
Incentive | The community seek funds from wages or incentives to be able to start programs in increasing communities income | The community seek funds from wages or incentives to provide tourist facilities | The community seek funds from wages or incentives to provide supporting infrastructure | The community seek funds from wages or incentives to be able to start accommodation provision programs | The community seek funds from wages or incentives to form managers in tourism development | The community seek funds from wages or incentives as government support in policymaking
Functional | The community held a joint meeting with outside parties to increase communities income | The community held a joint meeting with outside parties to provide tourist facilities | The community held a joint meeting with outside parties to provide supporting infrastructure | The community held a joint meeting with outside parties to provide accommodation | The community held a joint meeting with outside parties to form a manager in tourism development | The community held a joint meeting with outside parties to support and discuss the policies of the government
Interactive | The community takes decisions in community income improvement plans and programs | The community takes decisions in the plan and program of providing tourist facilities | The community takes decisions in the plan and program of providing supporting infrastructure | The community takes decisions in the plans and programs of providing accommodation | The community takes decisions in the plan and program of the formation of managers in tourism development | The community takes decisions in plans and programs for the implementation of policies from the government
Self Mobilization | The community is fully responsible and independent in the process of increasing communities income | The community is fully responsible and independent in the process of providing existing tourism facilities | The community is fully responsible and independent in the process of providing existing supporting infrastructure | The community is fully responsible and independent in the management of existing accommodation | The community is fully responsible and independent in the process of establishing a manager in the development of tourism | The community is fully responsible and independent in the process of implementing policies

Source: Analysis, 2020

Table 4 is the definition of each type of participation which are easier to determination the participation form of object.

**Table 4.** Types and Definitions of Forms of Community Participation

| Participation Form | Definition |
|---|---|
| Thought Participation | Participation is in the form of donating ideas, opinions, or ideas, both to compile programs and to facilitate program implementation |
| Energy Participation | Participation provided by people to encourage a wide variety of business forms |
| Material Participation | Participation provided by people in the form of money or funds for the realization of development planning |

Source: Hamijoyo, 2007
2.3. Data Collection Method
The data collection methods used in this study were the primary and secondary surveys. The primary survey was conducted by observations and interviews with related stakeholders. Meanwhile, the secondary survey was conducted from the result of community participation characteristic determination and institutional survey from related institutional documents such as the Planning and Development Agency of Bojonegoro Regency, the Cultural and Tourism Agency of Bojonegoro Regency, and Wonocolo Village Government.

2.4. Analysis Technique
In examining community participation and forms in the geotourism development in Wonocolo Village, the qualitative descriptive analysis method was used. Qualitative descriptive analysis is an analysis method used by describing study objects based on the received information. The description is presented qualitatively and detailed information [10]. To determine the influencing factors, the interviews were carried out with the selected stakeholders which were then analyzed using the content analysis method. Participation forms consist of thought, energy, and material participation [11] and participation levels consist of self, interactive, functional, incentive, communicative, informative, and passive levels [12].

3. Result and Discussions
Content analysis (CA) is a research methodology to make sense of the (often unstructured) content of messages – be they texts, images, symbols, or audio data. In short, it could be said to try to determine textual meaning. Content analysts therefore typically use some guidelines for inference (based on existing theories, previous research, or experience) and strict procedural (coding) rules to move from unstructured text to answers to their research questions [13]. In the following, we discuss three elements that every content analyst should think of before proceeding with the actual research: unitizing and sampling (pre-coding), the coding itself, and evaluative tests of the process. Although obvious for some research purposes, it is a good idea to explicitly think (and write) about the types of units, and especially the way they have been cut (unitizing). A unit is an identifiable message or message component, which serves as the basis for identifying the population and drawing a sample, on which variables are measured, or which serves as the basis for reporting analyses [14].

Sampling is the process of selecting a subset of units from the larger population. This can either be random, meaning that every element has an equal chance of being selected, or non-random. The process of coding unstructured texts into categories (inductively or deductively) is a laborious effort. Only this creation of categories alone merits extensive thought. Categories (and coding rules that put observations in them) should be crystal clear and exhaustive: for every coded unit, there is a category. These categories should also be mutually exclusive, in that they cannot overlap, not even to a small degree. The coding rules, the procedure by which a unit is categorized as such or such, are also commonly written down in codebooks. There is often an amazing level of detail in these codebooks, to the benefit of reliability. The goal, in any case, is to make coding rules as unambiguous as possible, so that every individual coder would categorize or label units in the same way. Still, there will often be a period of training before the actual coding, where scholars interact to make sure they have the same idea and protocol to start with.

Table 5. The coding Level recapitulation of Community Participation in Mangrove Ecotourism Planning in Wonorejo Sub District

| Variable                              | Opinions                              | Code   | Selected quotes from interviews to support stakeholders opinion                      |
|---------------------------------------|---------------------------------------|--------|--------------------------------------------------------------------------------------|
| Education for the Local Community     | Seminar activities for communities     | G1.1.1, G2.1.2, M1.1.10,            | "In terms of human resource development, we invite the public to take part in seminars, training, that's how it is, sir" |


| Variable                  | Opinions                                                                 | Code                        | Selected quotes from interviews to support stakeholders opinion                                                                                           |
|---------------------------|---------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Help the local community to introduce Woncolo to the outside | M2.1.2, S1.1.3, B1.1.1  | "The district government is very supportive, so we are known through marketing from social media, and we are also included in a tourism village appreciation workshop, now we win first place and our prizes are for our income in tourism development here"  | (Risang Anoraga, Head of the Tourism and Culture Marketing Development Division, Culture and Tourism Agency Bojonegoro Regency) |
| Event to provide knowledge to the community             | G1.1.2, G2.1.1, M1.1.1, M2.1.1, S1.1.2 | "Then we plan to hold Thengul International Folklore there, the point is that the event here is to introduce and provide historical knowledge of Woncolo to the community until it becomes a tourist destination."  | (Joko Sugiantoro, Treasurer for Teksas Tour Management Wonocolo) |
| Held conservation and the community still has no role to play | G1.1.3, G1.1.5, G2.1.4, M1.1.9, M2.1.3, S1.1.4 | "If the conservation there is still not optimal, then the reforestation is still lacking, it is still arid and the community has not been moved in conserving the environment itself, bro"  | (Angga Aria, Public Relation Of PT. Pertamina) |
| The information sign does not yet exist at the mine site                      | G1.2.1, G1.2.3, G2.2.2, G2.2.3, M1.2.2, M1.2.3 | "If there is no information board at the location, but it can be input for later provision, it can be provided from the government or the community later"  | (Risang Anoraga, Head of the Tourism and Culture Marketing Development Division, Culture and Tourism Agency Bojonegoro Regency) |
| The museum was built from a tourism agency for education                      | G1.2.2, G1.2.4, G2.2.1, S1.2.1, B1.2.1, B1.2.2, B1.2.3 | "The educational facilities are centered in the halfway house or the museum built by the district government. In my opinion it is sufficient to provide a light understanding of what mining operations are like for tourists and even for the common people themselves"  | (Miftahul Huda, Head of the Old Well Division of PT Bojonegoro Bangun Sarana) |
| The community become tour guides                                               | G1.2.5, M1.2.1, M2.2.1, M2.2.2, S1.2.2, S1.2.3, S1.2.3 | "As for the education here, as a local guide, I only tell you about oil, the way to separate it from oil, sir"  | (Joko Sugiantoro, Treasurer for Teksas Tour Management Wonocolo) |
| The role of the community in managing old wells                                | G1.3.1, G1.3.2, G2.3.1, G2.3.2 | "If the role of the community in managing the potential of natural tourism itself is their own, the miners have their own role to operate and produce crude oil there, if the pokdarwis manages the..."  | (Miftahul Huda, Head of the Old Well Division of PT Bojonegoro Bangun Sarana) |
| Variable                  | Opinions                                                                 | Code          | Selected quotes from interviews to support stakeholders opinion                                                                 |
|--------------------------|---------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------|
| **Artifical Attraction** |                                                                          | M1.3.1,       | "tourism if there are tourists coming" (Risang Anoraga, Head of the Tourism and Culture Marketing Development Division, Culture and Tourism Agency Bojonegoro Regency) |
|                         |                                                                          | M1.3.2,       |                                                                          |
|                         |                                                                          | M2.3.1,       |                                                                          |
|                         |                                                                          | M2.3.2,       |                                                                          |
|                         |                                                                          | S1.3.1,       |                                                                          |
|                         |                                                                          | S1.3.2,       |                                                                          |
|                         |                                                                          | B1.3.1        |                                                                          |
|                         |                                                                          | G1.4.1,       |                                                                          |
|                         |                                                                          | G1.4.2,       |                                                                          |
|                         |                                                                          | G1.4.3,       |                                                                          |
|                         |                                                                          | G2.4.1        |                                                                          |
|                         |                                                                          | G2.4.2        |                                                                          |
|                         |                                                                          | M1.4.2,       |                                                                          |
|                         |                                                                          | M1.4.4,       |                                                                          |
|                         |                                                                          | S1.4.1,       |                                                                          |
|                         |                                                                          | S1.4.2        |                                                                          |
|                         | **Making “Sego Gulung”**                                                  | M1.4.1,       | "Sego gulung are also from the community, the idea is that people continue to make them to sell in the stalls here, bro, before there was a tour, the community had also sold sego gulung, how good is the fresh rolls" (Joko Sugiantoro, Treasurer for Teksas Tour Management Wonocolo) |
|                         |                                                                          | M1.4.3,       |                                                                          |
|                         |                                                                          | M2.4.1,       |                                                                          |
|                         |                                                                          | M2.4.2,       |                                                                          |
|                         |                                                                          | S1.4.3        |                                                                          |
|                         | **Lantung Dance**                                                        | G1.5.1,       | "There is a typical dance here, the lantung dance, if I’m not mistaken, the people here also make the dance" (Mr. Pendek, Miner from Wonocolo Village) |
|                         |                                                                          | G2.5.1        |                                                                          |
|                         |                                                                          | M1.5.3,       |                                                                          |
|                         |                                                                          | M2.5.1        |                                                                          |
|                         |                                                                          | S1.5.2,       |                                                                          |
|                         |                                                                          | B1.5.1        |                                                                          |
|                         | **There are new jobs**                                                   | G1.5.2,       | "From the empowerment itself, the team took the initiative to make products such as t-shirts, oil souvenirs packed in bottles and it has economic value for the community" (Joko Sugiantoro, Treasurer for Teksas Tour Management Wonocolo) |
|                         |                                                                          | G1.5.3,       |                                                                          |
|                         |                                                                          | M1.5.1,       |                                                                          |
|                         |                                                                          | M1.5.2,       |                                                                          |
|                         |                                                                          | S1.5.1        |                                                                          |
|                         |                                                                          | B1.5.1        |                                                                          |
|                         |                                                                          | G1.6.1,       |                                                                          |
|                         |                                                                          | G2.6.1,       |                                                                          |
|                         |                                                                          | M1.6.1,       |                                                                          |
|                         |                                                                          | M2.6.2,       |                                                                          |
|                         |                                                                          | S1.6.1,       |                                                                          |
|                         |                                                                          | B1.6.1        |                                                                          |
|                         | **New Job**                                                              | G1.7.1,       | "But they get other income from the tour, they can rent out jeeps, rent trail motorbikes, then they open stalls, restaurants to provide for tourists" (Risang Anoraga, Head of the Tourism and Culture Marketing Development Division, Culture and Tourism Agency Bojonegoro Regency) |
|                         |                                                                          | M1.7.1,       |                                                                          |
|                         |                                                                          | M2.7.1,       |                                                                          |
|                         |                                                                          | S1.7.1,       |                                                                          |
|                         |                                                                          | B1.7.1        |                                                                          |
|                         | **Community Income Improvement**                                         | G1.8.1,       | "Yes, there must be because they can add income apart from the oil mining, such as selling sego rolls and renting the jeep" (Yuseriza, Head of Sub-Division for Economic Development, Cooperatives and Tourism of Bappeda Bojonegoro) |
|                         |                                                                          | G2.8.1,       |                                                                          |
|                         |                                                                          | M2.8.1        |                                                                          |
|                         | **Tourism Facility**                                                     | G1.9.1,       | "Then the existing infrastructure in the object is like a “rumah singgah”, then the Wonocolo text monument is written by the cultural and tourism agency." (Risang Anoraga, Head of the Tourism and Culture Marketing Development Division, Culture and Tourism Agency Bojonegoro Regency) |
|                         |                                                                          | M1.9.1,       |                                                                          |
|                         |                                                                          | M2.9.1,       |                                                                          |
|                         |                                                                          | S1.9.1,       |                                                                          |
|                         |                                                                          | B1.9.1        |                                                                          |
|                         | **Supporting Infrastructure**                                            | G1.10.1       | "So it was only in mid-2019 that the road was built by the district government so that the community and tourists did not complain about road access" (Risang Anoraga, Head of the Tourism and Culture Marketing Development Division, Culture and Tourism Agency Bojonegoro Regency) |
|                         |                                                                          | G2.10.1       |                                                                          |
|                         |                                                                          | M2.10.1       |                                                                          |
| Variable                                      | Opinions                                                                 | Code     | Selected quotes from interviews to support stakeholders opinion                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clean water supply                            | G1.8.2, M1.8.3, M2.8.2, S1.8.2,                                           | S1.8.1  | “Regarding the provision of clean water, the community has drilled clean water wells, and the water from PDAM has not yet been delivered. Never mind water from PDAM, electricity is still limited in the tourist or mining area” (Miftahul Huda, Head of the Old Well Division of PT Bojonegoro Bangun Sarana)                                                                                     |
| Supporting infrastructure is still inadequate | G2.8.2, M1.8.1, M1.8.2, S1.8.2,                                           |          | “But currently there are 3 problems that have not been realized, there are access roads that go up to the tower, continue to provide water, and the third is electricity. For electricity itself, there is no supply of electricity at the mine site” (Joko Sugiantoro, Treasurer for Teksas Tour Management Wonocolo)                              |
| Accommodation Availability in Wonocolo        | G2.9.1, M1.9.1, S1.9.1, B1.9.1                                             | G2.10.1 | "For temporary accommodation, that's a halfway house, there are also rooms for tourists to stay there, but if there is no restaurant for tourists, bro" (Angga Aria, Public Relation Of PT. Pertamina)                                                                                                                                         |
| The role of tourism management and development agencies | G1.10.1, G2.10.1, M1.10.1, M1.10.2, M1.10.4, S1.10.5, G2.10.2, M1.10.3, S1.10.1, S1.10.2, S1.10.3, S1.10.4, B1.10.1, B1.10.2 |          | "If pokdarwis there is active in branding this tour comes out so there is an impact on tourists so many come to Wonocolo" (Miftahul Huda, Head of the Old Well Division of PT Bojonegoro Bangun Sarana)                                                                                                                   |
| Cooperation with investors or the private sector | G1.11.1, G2.11.1, G2.11.2, M1.11.1, M1.11.2, M2.11.2, S1.11.1, S1.11.2     |          | "And yes, the cooperation program with investors or the private sector will be multiplied for community empowerment as well as wonocolo branding itself from social media," (Yuseriza, Head of Sub-Division for Economic Development, Cooperatives and Tourism of Bappeda Bojonegoro)                                                                                           |
| Government support in determining policy       | G1.11.1, G2.11.1, G2.11.2, M1.11.1, M1.11.2, M2.11.2, S1.11.1, S1.11.2     |          | "We, the government, are assisted by the local community, in determining Wonocolo tourist destinations, followed by the formation of pokdarwis and determining the concept of Wonocolo tourism as a geopark tour with the community determining it” (Risang Anoraga, Head of the Tourism and Culture Marketing Development Division, Culture and Tourism Agency Bojonegoro Regency) |

Source: Arnstein (1969); Vanderwal in Warner (2006)
3.1. Identification of community participation forms in the geotourism development in Wonocolo Village

The community participation form in Wonocolo Village was identified using the content analysis (CA). Below is the conclusion from content analysis results conducted on predetermined variables based on in-depth interviews with stakeholders and from interview quotes with stakeholders. The determination of the community participation form in Wonocolo Village in the geotourism development was then determined. Based on the identification results, several characteristics were obtained regarding community participation in the development of geotourism in Wonocolo Village. The community is actively following seminars regarding tourism development held by the government and following event activities. Pokdarwis is also active in providing education to the community as intelligence about tourism in Wonocolo. To validating the research results, the analysis was carried out through calculating content analysis coding based on the number of respondents who supported the idea of a similar answer in the research variables. Based on analysis results using the content analysis, it is discovered that community participation forms in developing geotourism are as follows (Table 6).

| Variable                  | Community Participation Characteristic                                                                 | Participation Form | Number of Citations |
|---------------------------|---------------------------------------------------------------------------------------------------------|--------------------|---------------------|
| Education for the Local Community | The community is actively following seminars regarding tourism development held by the government     | Thought: V          | 6                   |
|                           | The community is actively playing a role in following the training held by the government               | Energy: V          |                     |
|                           | The community as following event activities                                                             | Material: V         |                     |
| Pokdarwis is actively providing education to the community as intelligence about tourism in Wonocolo | V                                                             |                     |
|                           | The community has not participated in the environmental conservation                                    | V                  | 6                   |
|                           | Pokdarwis is actively providing education to the community as intelligence about tourism in Wonocolo   | V                  | 6                   |
|                           | The community is still planning to provide educational facilities for tourists in the mining area      | V                  | 6                   |
| Education for Tourists    | There is no community participation in the construction of a geopark museum for tourist education       | V                  | 6                   |
|                           | There is the participation/role of the community in education for tourists through tour guide activities | V                  | 6                   |
| Natural Attraction        | The community plays an active role in managing natural attractions                                      | V                  | 11                  |
|                           | There is community participation in the creation, manufacture and marketing of *sego gulung*          | V                  | 9                   |
| Artifical Attraction      | There is community participation in the development of the *lantung* dance                             | V                  | 5                   |
| New Job                   | There is community participation in the provision of new jobs                                          | V                  | 6                   |
### Variable | Community Participation Characteristic | Participation Form | Number of Citations |
| --- | --- | --- | --- |
| Community Income Improvement | The community initiated the formation of TTM (Texas Tour Management) which offers various tour packages | V V V | 6 |
| | There is community participation in increasing income from tourism activities | V V V | 6 |
| Tourism Facility | There is no community participation regarding the construction of tourism facilities in Wonocolo Village | - - - | 5 |
| | There is no community participation regarding road construction in Wonocolo Village | - - - | 4 |
| Supporting Infrastructure | There is community participation in the provision of clean water through drilling groundwater wells in tourist areas | V V V | 4 |
| | The lack of community participation in the procurement of tourism support infrastructure | - - - | 4 |
| Accomodation Availability in Wonocolo | There is community participation through the provision of accommodation that is already available | V V V | 4 |
| The role of tourism management and development agencies | There is a role for pokdarwis in tourism development through various activities | V V V | 6 |
| | The community (pokdarwis) collaborates with investors or the private sector in tourism management | V V - | 8 |
| Government support in determining policy | There is a role for the community in determining tourist areas in the form of pokdarwis establishment and discussion of Wonocolo tourism concepts with the government | V V V | 8 |

Source: Analysis, 2020

3.2. Identification of community participation levels in developing geotourism in Wonocolo Village

**Table 7. Results of Community Participation Level Determination in the Geotourism Development**

| Variable | Community Participation Characteristic | Participation Form | Participation Level |
| --- | --- | --- | --- |
| Education for the Local Community | The community is actively following seminars regarding tourism development held by the government | - V - | Incentive Participation |
| Variable                     | Community Participation Characteristic                                                                 | Participation Form | Participation Level       |
|------------------------------|----------------------------------------------------------------------------------------------------------|--------------------|--------------------------|
|                              |                                                                                                         | Thought | Energy | Material |                             |
|                              | The community is actively playing a role in following the training held by the government              | -       | V      | -        |                             |
|                              | The community as following event activities                                                               | -       | V      | -        |                             |
|                              | The community has not participated in the environment conservation                                        | -       | -      | -        |                             |
|                              | *Pokdarwis* is actively providing education to the community as intelligence about tourism in Wonocolo    | V       | V      | V        |                             |
|                              | The community is still planning to provide educational facilities for tourists in the mining area        | V       | -      | -        |                             |
| Education for Tourists       | There is no community participation in the construction of a geopark museum for tourist education        | -       | -      | -        | Functional Participation   |
|                              | There is the participation/role of the community in education for tourists through tour guide activities  | V       | V      | V        |                             |
| Natural Attraction           | The community plays an active role in managing natural attractions                                       | V       | V      | V        | Interactive Participation   |
|                              | There is community participation in the creation, manufacture and marketing of *sego gulung*            | V       | V      | V        |                             |
| Artificial Attraction        | There is community participation in the development of the *lantung* dance                              | V       | V      | -        |                             |
|                              | There is community participation in the provision of new jobs                                            | V       | V      | V        | Self Participation          |
| New Job                      | The community initiated the formation of TTM (Texas Tour Management) which offers various tour packages   | V       | V      | V        | Self Participation          |
| Community Income Improvement | There is community participation in increasing income from tourism activities                           | V       | V      | V        | Self Participation          |
|                              | There is no community participation regarding the construction of tourism facilities in Wonocolo Village | -       | -      | -        | Passive and Manipulative Participation |
| Tourism Facility             | There is no community participation regarding road construction in Wonocolo Village                     | -       | -      | -        |                             |
| Supporting Infrastructure    | There is community participation in the provision of clean water through drilling groundwater wells in tourist areas | V       | V      | V        | Functional Participation   |
| Variable | Community Participation Characteristic                                                                 | Participation Form | Participation Level |
|----------|--------------------------------------------------------------------------------------------------------|--------------------|---------------------|
| Accomodation Availability in Wonocolo | The lack of community participation in the procurement of tourism support infrastructure | - - - | |
| The role of tourism management and development agencies | There is community participation through the provision of accommodation that is already available | V V V Self Participation |
| | There is a role for pokdarwis in tourism development through various activities | V V V | Interactive Participation |
| | The community (pokdarwis) collaborates with investors or the private sector in tourism management | V V - | |
| Government support in determining policy | There is a role for the community in determining tourist areas in the form of pokdarwis establishment and discussion of Wonocolo tourism concepts with the government | V V V | Functional Participation |
| | Source: Analysis, 2020 |

Based on the table above, it is discovered that community participation levels in Wonocolo Village in the geotourism development were at various levels. The highest participation level was Self Mobilization with variables of artificial attractions, new jobs, community income improvement, and accommodation availability in Wonocolo, then followed by the Interactive participation level with variables of natural attractions and the tourism manager and developer’s role. Variables of education for tourists, supporting infrastructure, and government support in determining policy was at the Functional level. The education for the local community variable was in the Incentive level and finally, the tourism facility variable was on the Manipulative/Passive participation level.
Figure 2. Results of Community Participation Level Determination in the Geotourism Development
4. Conclusions
Based on identification results regarding community participation forms and levels in the geotourism development in Wonocolo Village through the descriptive analysis, it is discovered that the dominant participation form carried out by Wonocolo community was the energy participation with 16 participants on the predetermined variables, thought participation with 14 predetermined variables, and material participation with 11 predetermined variables. It is also discovered that community participation levels in Wonocolo Village in the geotourism development were on various levels. The self-mobilization level had variables of artificial attractions, new jobs, community income improvement, and accommodation availability in Wonocolo, then the interactive level had variables of natural attractions and the tourism manager and developer’s role. Variables of education for tourists, supporting infrastructure, and government support in determining policy were in the functional participation level. The education for the local community variable was in the incentive participation level while the tourism facility variable was in the manipulative/passive participation level.

5. References
[1] Nainggolan, R. 2016a. Informasi Geologi Lingkungan Berbasis Partisipasi Masyarakat debagai Kawasan Geowisata Danau Toba di Kabupaten Samosir. Jurnal Penelitian Pendidikan Sosial Dan Humaniora, 1(1), 22–28.
[2] Dowling, R. & Newsome, D. (Eds.). 2006. Geotourism, Sustainability, Impacts and Management. Oxford: Elsevier, Butterworth Heinemann.
[3] Dinas Kebudayaan dan Pariwisata Kabupaten Bojonegoro. 2019. Draft Rencana Pengembangan Pariwisata Daerah (RIPARDA) Kabupaten Bojonegoro Tahun 2019-2034.
[4] Dinas Kebudayaan dan Pariwisata Kabupaten Bojonegoro. 2018. Rancangan Akhir Rencana Strategis Pariwisata Kabupaten Bojonegoro Tahun 2018-2023.
[5] Najakha, Nailyl Arofatun, & Muhammad Farid Ma’ruf. 2018. Pengembangan Desa Wisata Edukasi Migas Teksas Wonocolo Di Kabupaten Bojonegoro. Jurusan Administrasi Publik. Universitas Negeri Surabaya.
[6] Research Centre For Politics and Government (PolGov) UGM. 2018. Pengelolaan Tambang Minyak Rakyat di Wonocolo Bojonegoro. Department Of Politics & Government. FISIPOL. UGM: Yogyakarta.
[7] Pemerintah Desa Wonocolo. 2019. Monografi Desa Wonocolo Tahun 2019. Bojonegoro.
[8] Prastiwi, Susmita, & Meirinawati. 2017. Manajemen Strategi Dinas Kebudayaan Dan Pariwisata Kabupaten Bojonegoro Dalam Mengembangkan Potensi Objek Wisata Edukasi Little Teksas Wonocolo. Jurusan Ilmu Administrasi Negara. Universitas Negeri Surabaya.
[9] Muwifanindhita, Maghfirah B, & Hertiari Idajati. 2019. Community Participation Level in Kampong Ketandan As Tourism Kampong in an Effort of Kampong Preservation. Knowledge E.
[10] Maulidya, Virgiana S. 2018. Arahan Pengembangan Kawasan Suku Tengger di Desa Ngadas Kab. Malang sebagai Desa Wisata Adat. Surabaya : Institut Teknologi Sepuluh Nopember.
[11] Hamijoyo. (2007). Pembangunan Masyarakat Berwawasan Partisipasi. Yogyakarta: UGM Press.
[12] Septiany, Irma (2012). Partisipasi Masyarakat dalam Implementasi Program Nasional Pemberdayaan Masyarakat (Pnmp) Mandiri Perkotaan Dengan Penggunaan Model Clear Di Kelurahan Kaliabang Tengah, Kecamatan Bekasi Utara, Kota Bekasi. Fakultas Ilmu Sosial dan Politik. Universitas Indonesia
[13] White, M. D., & Marsh, E. E. (2006). Content analysis: A flexible methodology. Library trends, 55(1), 22-45.
[14] Carney, T. F. (1971). Content analysis: A review essay. Historical Methods Newsletter, 4(2), 52-61.