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# EVALUATING PROTECTED AREA GOVERNANCE: IS COMMUNITY BASED FOREST MANAGEMENT (CBFM) BETTER THAN STATE BASED FOREST MANAGEMENT (SBFM)

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# **The Approval Statement**

#### **THESIS**

Evaluating Protected Area Governance: Is Community Based Forest

Management (CBFM) Better Than State Based Forest Management (SBFM) in

Managing Preserved Forest Areas at South Sumatera?

by:

# **WAHYU PAMUNGKAS NIM. 166030112111005**

This is to certify that the thesis has been approved by Board of Supervisors as one of the requirements for the degree of Master of Public Administration on August 29,

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#### **PERNYATAAN**

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## Universita ACKNOWLEDGEMENT Brawijaya

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Alhamdulillahirobbil 'alamin. Praise to Allah SWT who has given his extraordinary gifts so I have the oppurtunity to continue my study and finish this thesis at one of the best universities in Indonesia. This learning oppurtunity in Brawijaya University is one of the rare and priceless moments in my life. Therefore, I have to express my gratitude to all those who have helped me a lot throughout my study.

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Thousands of thanks are not enough to reply to my thesis committe, Mr. Dr. M.R. Khairul Muluk, S. Sos, M. Si and Mrs. Dr. Siti Rochmah, M. Si, for all the guidance, direction, patience, motivation, assitance, and knowledge provided during the process of preparing this thesis. Furthermore, I also have to express my gratitude to all members of the administrative science faculty not limited to dean, lecturers, and admnistrators who have worked extraordinarily in helping us improve our knowledge and competence in this beloved faculty. I also owe thanks to Bappenas, the Provincial Government of South Sumatera, the Government of Empat Lawang District, and also all of my contributors at the research sites who have given me a lot of convinience in completing my study.

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# Universitas Brawijaya Universita PAMUNGKAS Wahyus Brawijaya

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Universitas Brawijaya Universita Malangaya August 2017 Brawijaya

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Preserved forest can provide important benefits in protecting life-support systems especially in water management, landscape protection, and soil fertilization maintenance. Unfortunately, in Indonesia, the existence of preserved forest is threatened by the high rate of deforestation, that is often associated with poor quality governance.

This research aims to evaluate the applying of good governance principles in preserved forest at South Sumatera Province managed through two types of governance namely Community Based Forest Management (CBFM) and State Based Forest Management (SBFM). This paper also correlated between applying good governance principles with deforestation rate to understand the effect of good governance on management effectiveness. This research is a qualitative research by using semi structure interview. Evaluation method follows that developed by Lockwood (2009) using 5 of 7 principles of good governance namely transparency, accountability, fairness, connectivity, resilience and adaptability.

This research reveals that SBFM gets an exemplary level in 2 principles and the rest earns a high-level performance. Meanwhile CBFM obtains a substantial level of desirable improvement for all principles. It can be concluded that SBFM is better than CBFM in applying good governance principles. Furthermore, analysing of GIS reveal that deforestation rate in SBFM higher than SBFM in the period 2011-2015 recorded for 9.84% and 6.37% respectively. In term of correlation between good governance and deforestation, this study reveals that better in application of good governance principles did not lead to lower deforestation rate. Further research is required to understand the difference between the result of this research and the supporting theories in terms of the effect of good governance to management effectiveness.

Keyword: Preserved forest, Good Governance, Deforestation, Stated Based Forest Management, Community Based Forest Management, South Sumatera.

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# Universitas Brawijaya

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# INTRODUCTION

Universitas Brawijaya Universitas Brawijaya

# Univernia Background Universitas Brawijaya Universitas Brawijaya

Universitas Brawijaya

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South Sumatera is province of ninth largest forest area in Indonesia

with total area 3,418,289,03 hectare (as can be seen in table 1) that is Universita managed dominantly by regional government. S Brawijaya

University Table 1.1. The Big Ten of Forest Areas in Indonesia

No.	Province	Total Forest Area	Percentage	itas Brawijay
1	Papua AS BA	40.546.360,00	30,49%	sitas Brawijay sitas Brawijay
2	Kalimantan Tengah	15.300.000,00	a 11,51%	itas Brawijay
3	Kalimantan Timur	14.651.053,00	11,02%	sitas Brawijay
4	Riau	9.456.160,00	7,11%	sitas Brawijay
5	Kalimantan Barat	9.101.760,00	6,84%	
6	Maluku	7.146.109,00	5,37%	sitas Brawijay
7	Sulawesi Tengah	4.394.932,00	3,31%	sitas Brawijay
8	Sumatera Utara	3.742.120,00	2,81%	sitas Brawijay sitas Brawijay
9	Sumatera Selatan	3.418.289,03	2,57%	sitas Brawijay
10	Nangroe Aceh Darussalam	3.335.713,00	2,51%	sitas Brawijay

Source: Central Agency on Statistics, 2016

Similar with other areas, South Sumatera also faces deforestation that is one University of important environmental issues interesting international attention. University Moreover, South Sumatera is also accused as the representative of the worst ijaya University cases in Indonesia with respect to anthropogenic impacts within buffer zones lava which evidenced by 22 cases of state forest land conflict involve community in 2016 that is the sixth province with the highest number of land conflicts after Riau, East Java, West Java, North Sumatera, and Aceh (Kartika, 2017). Some parties assume that the emergence of forest problem in South Sumatera is a

government failure where bad forest governance is considered as the main Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University problem (Forest Watch Indonesia, 2014). These facts have encouraged some liava



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parties to evaluate the forest management in South Sumatera especially in term of community involvement in forest management.

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alone. The limited number of government personnel and infrastructures is considered not able to manage the size of the forest area. For example, total area of state forest in Empat Lawang regency is 88,766.84 hectares with total number of government personnel is twelve personnel. It means that 1 personnel must supervise 7,397.24 hectares that is impossible to be supervised. Involving all stakeholders have to be done to overcome it.

Therefore, governance becomes a viable alternative.

implemented in South Sumatera as the solution of forest problem. CBFM is considered as better pattern of forest management applying the principles of governance mainly in community involvement. NGOs, especially in environmental field, began to assist local community in getting access to forest resources. In 2010, Ministry of Forestry issued forest management permit to local community in Muara Merang located in Musi Banyuasin Regency that local community in Muara Merang located in South Sumatera. It is followed with lowers that becomes the first forest village in South Sumatera. It is followed with lowers that becomes the first forest area that is reserved for CBFM with an area of lowers that Banyuasin Banyu

High expectation of CBFM has been questioned when Forest Village of
Muara Merang has failed to meet expectation in achieving forest sustainability
where the rate of deforestation in there was higher than state forest area. In
average, deforestation rate in Muara Merang was 5.67% per year in the period
of 2011-2013 while deforestation in state forest was only 0.41% per year in

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same period (http://www.mongabay.co.id/2014/08/05/degradasi-hutan-desa-di-musi-banyuasin-memprihatinkan/ and Statistic of Forestry Ministry 2012-2014). It then triggered debate about whether CBFM is suitable pattern for sustainability in preserved forest area in South Sumatera or not. The other debate is whether CBFM has applied the principle of good governance or not.

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Protected area is regulated based on Presidential Decree Number 1942 and 19

In Indonesia, one of the world's biologically mega diverse countries,
the question of whether protected areas are effective in protecting its
biodiversity and ecosystem has already been brought up. This concern has
been raised, especially considering its preserved forest areas and recent land
use change and deforestation processes in state forest area managed
primarily through state-based forest management. Forest Watch Indonesia

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(FWI) stated that Indonesian deforestation rate in period of 1980-1990, 2000-2009, and 2009-2013 are 2 million hectares, 1.5 million hectares, and 1.1 million hectares respectively. The decline of deforestation rate was not caused by improving in forest governance but caused mainly by the decline of forest area (FWI, 2015). Indonesia is the country with highest rates of deforestation in Asia in the period of 2010-2014, where the rate of deforestation in Indonesia accounts for 50,26% of total deforestation in Asia. The comparison of forest area and deforestation rate between countries in Asia can be seen in table

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Table 1.2. The Comparison of Forest Area and Deforestation Rate in Asia

Country	Forest Area	Deforestation Rate	Rrawija	
BA	(x 1000 Ha)	Total Loss Area (x1000Ha)	niversitas	
Indonesia	160.978,0	7.718,0	4,79%	Brawijay
Malaysia	29.415,6	2.347,6	7,98%	Brawijay
Myanmar	42.859,3	1.038,4	2,42%	Brawija
Cambodia	8.810,8	939,5	10,66%	, ,
Lao PDR	19.118,7	842,1	4,40%	Brawijay
Vietnam	16.577,7	782,9	4,72%	Brawijay
Thailand	19.962,4	531,0	2,66%	Brawija
India	38.814,0	428,0	1,10%	
Philiphines	18.600,3	336,7	1,81%	Brawijay
PNG	42.940,9	335,4	0,78%	Brawijay
Bangladesh	1.959,6	29,5	1,51%	Brawijay
Nepal	3.636,0	12,0	0,33%	Diawija
Brunei	527,8	8,0	1,52%	Brawija
Bhutan	2.580,6	7,7	0,30%	Brawijay

Source: http://rainforests.mongabay.com/deforestation\_forest.html

Deforestation processes are associated with habitat elimination and fragmentation, loss of biological diversity, reduction in ecosystems services (water, nutrients and carbon cycling) and even climate change, all of which severely undermines the effectiveness of a protected area (Ellis and Porter-Bolland, 2008, p.1972). According to WWF, there are some main causes of deforestation in Indonesia namely forest encroachment (dominated by plantation), illegal logging, and industrial-plant forest. Neglecting local

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communities was accused as one of the government failures in overcoming the deforestation. Local communities are not given access to utilize Preserved forest areas even encouraging illegal activities that is difficult to be anticipated Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University by government considering its limitation in resources and large area of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universita Preserved forest areas. It encouraged assertion to involve community directly lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universita in forest management as Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitias Braw A more difficult question to answer is whether in Indonesia protected University areas are more effective when they directly involve local communities in the layer University management of land and natural resources. Actually, it has been reported that level the protected areas policy in Indonesia has historically ignored local inhabitants, and that conflicts with local communities are recurrent. Sitas Brawijaya

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In Indonesia, CBFM emerged not as the academic response to scientific forestry recognized by colonial era in the end of 19th century. CBFM emerged as the empirical response to forestry problems happened in the field especially in state forest area that is near with the forest villages. At least, there were two phases where empirical response emerged. First, empirical response happened in period of 1970's when conceptualization of CBFM was Universitä still packaged in very limited framework namely social forestry. It was limited Universita because social forestry was designed by the state to dampen the people's Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University resistance caused by centralized forest management system. Second, it was layer University empirical response to massive timber-pillage in the state forest area after in lava University the end of Soeharto era. Economic and political crisis generated freedom euphoria and also redemption to the forestry institution due to strict control, limitation, excision, and criminalization in forest management (Peluso, 1992).

In other word, CBFM emerged as the community response to inequity on



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Universitas Brawijaya awijaya awijaya Universita forest management, lack of community participation, and also poverty in forest Universitas villages. Universitas Braw CBFM has been one of priority programs in Environmental and Forestry Ministry through directorate general of social forestry and partnerships. In awijaya period 2015-2019, 12.7 million hectares of state forest or almost 10% of total awijaya awijaya state forest area are prepared to be managed through CBFM scheme. awijaya awijaya Indonesia experienced the significant increase of social forestry since awijaya University recognized in 2010. The development of social forestry in Indonesia can be layar awijaya awijaya University seen in the chart below: awijaya aya awijaya awijaya Chart 1.1. The Development of Social Forestry in Indonesia and South awijaya awijaya iversitas Brawijaya Sumatera awijaya awijaya The Development of Social Forestry awijaya awijaya in Indonesia and South Sumatera awijaya 300.000 awijaya awijaya 262.130 250.000 awijaya awijaya 200.000 198.237 187.012 awijaya 150.000 100.000 awijaya 63.450 50.000 awijaya awijaya rawijaya 6.750 704 awijaya 2010 2011 2014 2015 2012 2013 awijaya Indonesia South Sumatera

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University Data source: Ministry of Environmental and Forestry in Forest area statistica will available

period of 2011-2016. Universitas Brawijaya Universitas Brawijaya Universitas Rrawijava Universitas Rrawijava

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awijaya awijaya Universitas Braw Indonesia offers some successful examples of community-based forest management cases that have had a positive impact regarding forest conservation and people welfare. Kali Biru, one of tourism object in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University Yogyakarta, is the example of successful preserved area managed by local lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University community where improving not only forest sustainability but also people lava welfare. The implementation of CBFM in Ciremai Mount National Park also showed that there is an increase of income encouraging the decrease of poverty (Kusmana et al., 2007). Hence, it emerged a widely acceptable opinion that CBFM is the most appropriate model of Preserved forest areas management.

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In other hand, there are some examples of the failure of communitybased management in Indonesia. In Hutamonu, a CBFM in Gorontalo Province, CBFM is accused as the justification for illegal activities in forest area. Issuing permit for local community is even utilized to convert forest area to agricultural use. In forest village of Namo located in Central Sulawesi Province, community income sourced from CBFM is relatively smaller than lava income component from non-forest sectors and it did not give yet significant Universita impact on income equity (Aji et al., 2015, p. 84).

Universitas Braw The effectiveness of protected areas for biodiversity conservation has Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University been an on-going debate for over a decade. There is no question that these layers Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University areas contribute towards biodiversity conservation. The discussion revolves have University more on when and how they become effective conservation strategies. Some have Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya argue that protected areas are more effective when decision-making and management adopts a more exclusionary approach towards communities. Others argue that protected areas are more effective when local

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awijaya awijaya resource management, especially within surrounding lands or buffer zones. A third argument sustains that protected areas alone do not guarantee effective conservation, and rather, there is a growing agreement that many types of protected areas are needed, including those that integrate human populations as management actors. Moreover, successful biodiversity conservation is frequently observed in regions that are not under any official protected area status and where local communities benefit from their own local management of land and natural resources. In these cases, strong local institutions and rules regarding land and natural resource use are critical for biodiversity conservation, and many times these local institutions do not result from protected area programs or policies (Ellis and Porter-Bolland, 2008).

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Some researches revealed that CBFM showed improvement on forest sustainability. CBFM in Nepal has resulted in more efficient use of forest resources, contributed to a decline in the use of slash-and-burn agricultural practices, reduced the incidence of forest fires, spurred tree plantation and encouraged the conservation and protection of trees on both public and private land (Niraula et al., 2013). In Mexico, 502.656 ha in 25 communities had been certified under criteria of the Forest Stewardship Council (FSC) due to compliance in applying sustainable forest management (Bray et al., 2003). In term of community welfare improvement, CBFM may reduce poverty in the less developed countries accounting for range of 5-12 percentage point and also increase food security levels in the range of 12%-19 (Ali et al., 2015).

In spite of success experience, there are also some unsuccessful implementations of CBFM. In Madagascar, both of CBFM and commercial use

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of forest resources are not guarantees of forest conservation (Rasolofoson et al., 2015, p.1). In Uganda, poor households in areas neighbouring CBFM programs might have been harmed. The implementation of CBFM did not increase community income, even it reduced community income accounting for 6% (Samii et al., 2014, p.10).

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There has been growing recognition that Preserved forest areas can precipitate a range of impacts, both positive and negative, on neighbouring communities that can either enhance or inhibit conservation efforts. While the impact of protected areas on the well-being of adjacent communities stems from a range of factors, governance is central to the effective designation and management of Preserved forest areas throughout the world, and for creating positive social-ecological outcomes (Kisingo et al., 2016, p.1).

pA governance refers to the "interactions among structures (i.e. with institutions), processes and traditions that determine how power and responsibilities are exercised, how decisions are taken, and how citizens or other stakeholders have their say in the management of Preserved forest areas" (Graham et al., 2003:2). The last few decades have witnessed a shift in PA governance from being predominantly the responsibility of the state to a diverse set of arrangements under which powers are variably distributed among government, private and community-based actors (Kisingo et al., 2016, p.1). However, there is no ideal governance setting for Preserved forest areas, but a set of "good governance" principles can always be considered.

Universitas Braw There are some assumptions that governance play important role in Universitas Brawijaya Unive

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(IUCN) stated that conservation of nature depends on well governed systems of protected and conserved areas in the landscape and seascape.

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Governance that is both appropriate to the context and "good" is crucial for effective and equitable conservation (Borrini-Feyerabend et al., 2014, p. 9).

Governance is now recognized as a critical aspect of effective conservation and is a prominent part of the Convention on Biological Diversity's work program on protected areas (Dearden et al., 2005, p. 1). While Ministry of Environmental and Forestry stated that applying good governance is a key in sustainable forest management (Ekawati et al., 2014, p. 3).

Some researches gave evidence of those assumptions. Siswoko (2009) stated that by applying good forest governance that is always based on social and ecological aspects, it is expected that forest resource sustainability and community welfare improvement can be realized. The successful of participative forest rehabilitation applying the principles of good governance especially in participation is an evidence of it (Siswoko, 2009).

While, low rate index of good governance in forest managed by the state especially in participation, accountability and law enforcement was correlated with some problems in forestry that can encourage the deforestation and poverty (Ichsan et al., 2014). Hence, this fact encouraged some scholars to evaluate applying good governance principles in Preserved forest areas.

Considering to successful and unsuccessful story and also large area of state forest prepared to CBFM that it can cause broad impact on social and ecological aspect if it is conducted without proper analysis, it is important to evaluate the implementation of CBFM in Preserved forest areas. Whether it is more effective than state-based management in achieving sustainable forest

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important role on forest sustainability so that the evaluation of CBFM have to be addressed to applying good governance principles. As the comparison, state-run Preserved forest areas will be assessed using same method. It is necessary to determine which pattern is better in applying governance principles. Furthermore, it is also important to analyze whether better in applying of good PA governance principles will give better impact to forest sustainability and people welfare. This research concerned to these matters so that this research is important to be conducted.

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Defining and evaluating 'good' governance in this context has been an area of important research for some time and a range of scholars have worked on analysing governance systems and reviewing Preserved forest areas governance performance, from local to global levels (Kisingo et al., 2016, p. 750). In 1997 the United Nations Development Program (UNDP) put forward ten principles of good governance that have since been drawn on by diverse authors. For example the Institute on Governance summarized them into five key principles (Graham et al., 2003).

Lockwood (2010) drew on (and also critiqued) these and other sources and, coupled with expert panels and field tests with PA officials, suggested a list of seven principles, including legitimacy, transparency, accountability, inclusiveness, fairness, connectivity, and resilience. Each of these principles was associated with a set of 'performance outcome', or standards against which performance can be evaluated (see also Abrams et al., 2003; who developed a list of governance indicators). There is some degree of overlap between these various sets of principles, what each principle is intended to

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encompass, and the indicators associated with those principles. Connectivity and resilience are concepts that are not obviously associated with the principles mentioned by UNDP. Connectivity broadly refers to connections across scales and geographies while resilience broadly refers to the level of disturbance that can be accommodated without the system being reconstituted (Lockwood, 2010).

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Furthermore, Governance Forest Initiative (GFI) released a set of indicators of forest governance version 2.0 in 2011. It is a comprehensive methodological framework to conduct research or assessment on forest governance. These indicators are developed by a civil society coalition in global level from tropical-forest countries such as Brazil, Cameroon, and Indonesia. This indicator framework divides forest governance activities into four main aspects describing forest governance from upstream to downstream namely tenure aspect, forest stewardship aspect, forest management aspect and forest income aspect (Jaringan Tata Kelola Hutan, 2011).

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Universitas Braw There are also some previous researches conducted regarding CBFM and PA governance. Secco et al. described an original set of indicators to Iniversity measure the quality of forest governance at local administrative/spatial level Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University and the method used to develop them (Secco et al., 2014). Ellis and Bolland lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University compared land use/land cover change in two Preserved forest areas managed lava through CBFM and SBFM (Ellis and Porter-Bolland, 2008). Firmansyah et al. conducted comparison analysis between CBFM and SBFM in Tanah Datar Regency to put emphasis on forest management aspect (Firmansyah et al. 2015). Eagles et al. revealed the stakeholder's perception of good governance in Preserved forest areas conducted in British Columbia and Ontorio Provincial Parks (Eagles et al., 2013). Jaringan Tata Kelola Hutan assessed good forest governance in Lombok Barat Regency used the GFI Indicator (Jaringan Tata Kelola Hutan, 2014). Kisingo et al developed a PA governance evaluating tools based on community perspective that is a set of 65 statements related to governance principles developed from a literature review (Kisingo et al., 2016). In contrast with previous research, this research will not only evaluate the applying of good PA governance in CBFM but also University comparing it with SBFM and then measuring its effectiveness in term of forest layer University sustainability. Evaluating will use framework for governance assessment in layer Universitas Brawijaya Universitas Brawijaya Universita terrestrial protected areas developed by Lockwood. wijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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2. Does applying the good governance principles affect forest sustainability in South Sumatera? Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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3. Which one is better management scheme for managing preserved forest Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bareas at South Sumatera?vijaya Universitas Brawijaya Universitas Brawijaya

#### Unive 1.3. Research Objectives as Brawijaya Universitas Brawijaya

There are some objectives of this study that are describing and analysing the problem as follows:

- 1. The application of good governance principles in managing Preserved forest areas at South Sumatera Province through CBFM and SBFM scheme;
  - 2. The effects of applying good governance principles in managing Preserved iversitas Brawijaya forest areas to forest sustainability at South Sumatera Province; as Brawijava
  - 3. The better scheme for managing Preserved forest areas at South Sumatera Province;

#### 1.4. Significance of Research

The benefit of this research in detail as follows:

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- 1. Practically, the findings obtained from this study will be valuable information for Provincial Government of South Sumatera as a contribution of ideas awijaya Universitas Brawijaya Universitias Band, concepts to improve preserved forest governance and also to layer Universities Universitas Edetermine appropriate management scheme for Preserved forest areas; awil ava
- 2. Theoretically, this study will enrich the scope of the science of Public Administration, in particular, related to the study of the preserved forest management success factors towards the good governance principles practice in South Sumatera Province.

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Universitas LITERATURE REVIEW Brawijaya

## Universitas Brawijaya Universitas Brawijaya 2.1 Previous Research

impact.

There are several previous studies related with protected area governance, comparison study between state-based management and community-based University management in protected areas, and evaluating governance of protected lava vijaya Universitas Brawijaya University areas. This follows several previous types of research that used as references illaval in this thesis (summary of pervious studies can be seen in table 2.1):

- 1.1.1. Governance of Ecosystem Services: A framework for empirical analysis in 2015. This research aims to identify the different modes of governance implementation from biodiversity environmental conservation literature and incorporates them in a conceptual model of ecosystem services commonly utilized at present, the cascade model. This study results in a conceptual framework emphasizing hierarchical governance, scientific technical governance, adaptive collaborative governance, and governing strategic behaviour (Primmer et al., 2015). Relevance: This research provides a framework that will be useful in
- 1.1.2. Quality of governance and effectiveness of protected areas: crucial Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra concepts for conservation planning in 2016. This study focuses on lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra terrestrial protected area and give a clear description of protected area il ava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

analysing and supporting policies in conservation and sustainability

Universitas Brayeffectiveness including governance, distinguishing betweenersitas Brawijava

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awijaya awijaya 1.1.3. management and ecological aspects. They suggest that the quality of governance affects conservation outcomes described in conceptual framework that is an extension from pressure-state-response framework used by OECD. This study also illustrate that is important to separate pressure and response and how these together will lead to the observed conservation outcomes. Relevance: This research provides a framework to analysis the effects of governance quality and governance type to protected areas.

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1.1.4. Indicators for assessing good governance of protected areas: Insights from park managers in Western Australia in 2016. This research uses the standards provided by the UNDP's characteristics of good governance for sustainable development as a starting point. It can be leave categorized as participatory research because it involved government, NGOs, and universities. This research process established a set of 20 addressing public participation, consensus strategic vision. responsiveness, effectiveness. efficiency accountability, transparency, equity, and rule of law. Management plans, annual reports, audits, and stakeholder engagement provide output lava iwijaya Universitas Brawijaya Universitias Braimeasures. The findings highlight the contributions of management plans illaya Universitas Brawijaya Universitas Pravilaya Universitas Bra and annual reports ain establishing evaluation requirements and jaya Universities Bra providing a place where results are publicly available. Relevance: This research enriches knowledge in assessing governance in protected areas. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

1.1.5. The failure of community-based forest management in fulfilling its promises in 2016. This research was conducted in community forest

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Universitas Bravarea in Boalemo located in Gorontolo Province. The authors stated that Universitas Bravif there is no funding from third parties for publication and explanation Universitias Bra about community-based forest management, automatically, it will be lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra conducted by local government. It is the starting point of community-liava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra based forest management failure in Boalemo. At encourages the lava establishment of groups such a hurry that many communities are not empowered even ruled out its role in the program is supposed to involve them. It should be overcome by appointing a facilitator, but the parties are supposed to be facilitators still need for enhanced capacity. Implementing community-based forest management program also not equipped with good training and impressed allowed to walk alone. This failure is also exacerbated by the poor inter-agency coordination, available overlapping roles, and lack of funding. Relevance: This research gives preliminary information about community-based forest management especially affecting factors of implementation failure.

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1.1.6. Forest management comparison study between community-based and state-based in 2015. This study compares the forest management in protected area of Bukit Barisan I managed by the state and by the Universitas Bra community. State-based forest management tends to use sustained Jaya University Brayield principle approach that aims to optimize aspect of economics, lava Universitas Bra social and ecology. It emphasizes on landscape controlling and relies fully on law formality without support of strong capacity of institution. Every forest utilizing must be under government permit. This approach proved unsuccessful in controlling the rate of forest destruction. In other Universitas Bra hand, community-based forest management uses ecosystem-based lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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awijaya awijaya Universitas Bra management of forest resource. They use local wisdom that sustains forest resources until today. This research also reveals inequity where Universitias Brathere is neglecting of custom right that should be accommodated in Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braiforest management. Relevance: This research provides general jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra overview of comparison between community-based forest and state-lilava Universitas Braybased forest. rsitas Brawijaya Universitas Brawijaya

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1.1.7. Evaluating "good governance": The development of a quantitative tool in the Greater Serengeti Ecosystem in 2016. The authors emphasize the role of governance as key success in effectiveness of protected areas especially in delivering benefits to conservation and communities. Therefore, they suggest that it is important to develop frameworks of evaluating governance. The developed framework is a framework perceived by community because focusing on the perception of local community also presents an opportunity to examine empirically examine the relationship between the various good governance principles and indicators associated with them in the literature. The evaluating tool developed by them is a set 65 statements related to governance principles developed from literature review. Those statements load onto lava awijaya Universitas Brawijaya Universitas Bra 10 common factors that are: legitimacy, transparency and accountability, liava Universitas Brawijaya Universitas Brawijaya Universitas Brayresponsiveness, fairness, participation, ecosystem-based management lava Universities Bra and connectivity, resilience, achievements, consensus orientation, and power. The method developed by them is a quantitative evaluation method. Relevance: This research provides a set of statements that can Universities Bra be used to assess the quality of governance in protected areas.

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1.1.8. Is CBFM more effective than protected area? A comparison of land use/land cover change in two neighbouring study areas of the Central Universitias Bra Yucatan Peninsula, Mexico in 2008. This research attempts to illustrate Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bratthe importance of local community role towards forest conservation by a light Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra comparison of two adjacent areas in which land use cover change lava analyses were conducted. The result shows that forest managed by local community enterprises experienced increase land cover. In contrast, protected area managed by the state experienced deforestation despite in low level. The authors concluded that community forest management can play effective role in forest conservation and they argue that a regional land use management approach as a conservation strategy in which local inhabitants are considered key actors. Relevance: This research illustrates how to analysis the land use change as the indicator of deforestation considering deforestation will be used to assess the effect of governance.

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1.1.9. Why and how to measure forest governance at local level: A set indicators in 2013. The research presents and discusses an original set of indicators to measure the quality of forest governance at local lava awijaya Universitas Brawijaya Universitas Bra administrative/spatial level and the method used to develop them. A draft ijaya Universitas Brawijaya Universitas Brawijaya Universitas Braylist of indicators (mainly process-oriented) has been formulated with Java Universitas Bra respect to seven governance key-dimensions (sustainability, efficiency, effectiveness, participation, transparency, accountability and capacity). This draft list has been tested in two pilot applications (data collection by

Universitas Braymeans Of questionnaires). The indicators, which Universitas Bra dichotomous and continuous variables, can be standardized in a few layar

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Universitas Braycomposite indicators to provide concise information about governance Universitas Brayperformance. Despite some methodological limitations that need to be Universitias Bra further explored, the final set of 78 indicators appears to be a simple and Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braignacticable assessment tool, that can be used either for external or layer Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bravinternal evaluations. Additional tests are needed to consolidate the tool/illava (Secco et al., 2014). Relevance: This research can be a guidance to assess governance in local level where my research was conducted in

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Universit 1.1.10. Evaluating the effectiveness of protected areas biodiversity, securing habitats, and reducing threats in 2013. This is a PhD thesis from faculty of science in University of Copenhagen. The author stated that protected areas are amongst the most important conservation responses to halt the loss of biodiversity and cover of the terrestrial surface of earth. The aim of research is evaluating the performance and effectiveness of protected areas in conservation by evaluating their ability to either improve conservation responses, the state of biodiversity, or alternatively to reduce the human pressures responsible for loss biodiversity. The evaluating process used the layer awijaya Universitas Brawijaya Universitias Brainpressure-state-response framework developed by OECD. The authorities Universitas Brawijaya Universitas Brawijaya Universitias Bra concluded that protected areas have conserved forest habitat and also lieval Universities Bra effective in maintaining species populations. This research shows the importance of quality governance or good governance in the effectiveness of protected areas (Geldmann, 2013). Relevance: This research gives a brief information about how to use PSR framework in Universitias Branassessing the effect of governance on protected areas. Iniversitias Brawijaya

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# 2.2.1. Protected Area

IUCN defines a protected area as a: "clearly defined geographical Universitias Braispace, recognized, dedicated, and managed, through legal or other lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra effective means, to achieve the long-term conservation of nature with lava Universitias Brayassociated ecosystem services and cultural values. Protected areas are liava essential component of conservation strategies but they must be Universities Bra integrated into the wider landscape and seascape, and into the wider society, if they are to be successful in the long term. This theoretical definition is important to assess whether or not preserved forest area, that is the research locus, can be categorized as protected areas (Borrini-Feyerabend et al., 2014, p.5).

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In Indonesia, protected areas is regulated through Presidential Decree Number 32/1990 regarding protected area management. In this regulation, protected area is defined as an appointed areas with the primary function of protecting the environment which includes natural resources, artificial resources, and historical and cultural values of the nation for the sustainable development. The scope of protected areas Universitias Bra includes areas that provide protection of the underlying areas, local lava Universitas Brawijaya Universities Bra protected areas, nature reserves, cultural heritage areas, and natural lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Brandisaster prone areas. Preserved forest area is a part of areas that have Universitas Bra provide protection of the underlying areas. Brawijaya Universitas Brawijaya

Forestry is regulated through special regulations namely Forestry Act number 41/1999 regarding forestry. There are several terms used in Universitas Brawijaya this regulation namely:



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Universitas Brawijaya a. . State Forest Area, a certain territory appointed and or established by the government to maintain its existence as a Upermanent forest; ya Universitas Brawijaya Universitas Brawijaya

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- Universitas Brawijayab. U State forest area can be classified based on its function into 3 llaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya U (three) groups namely conservation forest, preserved forest, java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya and production forest.
- c. Preserved forest area is a unique characteristic area that able to protect the surrounding area as well as downstream prescribed by government with major function as life support flood preventing, erosion laya system water managing, controlling, sea water intrusion preventing, and soil fertilization niversitas Brawijaya maintaining. Preserved area has some criteria that are:
  - 1. Factor score for slope field, soil type, and rain fall is more than 175 and/or;
  - 2. Having slope field more than 40% and/or;
  - 3. Located in area with height more than 2.000 meters above sea level

Preserved forest area must be appointed by government and awijaya Universitias Brachaving clear area that is given clear marks to ease in recognizing. Universitas Brawijaya Universitus Prantingve Universitas Bra Preserved forest area is also managed through legal means by regional/ijava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities Bra government. Its functions can also be associated with ecosystem services. So that, preserved forest area can be categorized as protected area and can be analysed by using the principles of good protected area

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# Universita 2.2.2. Public Administration Universitas Brawijaya

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Universitas Brawijaya The emergence of public administration occurred in 1887 which Universitias Brailwas initiated by Woodrow Wilson through his journal entitled the study lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra of administration. This paper is a form of concern over the conditions of lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braithe United States government at that time that judged ineffective and lava Universitias Bra inefficient. Wilson wrote that Administration is the most obvious part of government; it is government in action; it is the executive, the operative, the most visible side of government, and is of course as old as government itself. It is government in action, and one might very naturally expect to find that government in action had arrested the attention and provoked the scrutiny of writers of politics very early in the history of systematic though (Wilson, 1887, p. 198).

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In its development, there are a lot of definitions of Public Administration. Denhardt stated that public administration is concerned with the management of public programs. Fesler and Kettl suggested that public administration includes the shaping of policy on the way up execution of policy after it has been made, and as a necessary part of the execution, decision making about policy matters on the way down. Universitas Bra While Simon defined it as the activities of groups cooperating to Java Universitas Bravaccomplish common goals va Universitas Brawijaya Universitas Brawijaya

Universitas Brawlaya Rosenbloom (1986) suggested that public administration uses theories and processes of management, politic and legal to fulfil mandate of legislative, executive, and judicial and to provide public service. From the political aspect, public administration is what the Universitias Bra government does. Here, public administration is any government activity Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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that affects the daily life of society, both on national and regional scope

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Universitas Bray From management aspect, public administration is definitely concerned Universitias Bra with government actions in managing public affairs or public policy lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra implementation. From the legal aspect, public administration exists and layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra is limited by legal instruments. Public administration is then interpreted lava as law in action and is inherently an implementation or execution of public law. Administration could not exist without a legal foundation.

According to Nicholas Henry, the development of administration study can be divided into some periods. First period was 1900-1926 and well known as politic/administration dichotomy in which administration was a new field. Second period was from 1927 to 1950. Focus of this period was finding and articulating basic principle of public lava administration that can be seen as universal principle. Third period was public administration as political science from 1950 to 1970. Some political scientist viewed administration process as a phase of modern civilization, human ecology, place, technology, problem, and as the social and governmental process. While other scholars focused on behaviour of organization participant and public policy making. Java awijaya Universitas Brawijaya Universitas Bra Therefore, public administration loses its focus and identity.ersitas Brawijaya

Universitas Brawijava Frederickson et al. (2012) described the primary theory of publicitiava Universities Bra administration consisting of 8 (eight) theories namely: theories of political Universitas Brawijaya Universitas Brawijaya control of bureaucracy, theories of bureaucratic politics, public institutional theory, theories of public management, postmodern theory, decision theory, rational choice theory and irrational behaviour, and Universitas Braytheories of governance. Vijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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# Universita 2.2.3. Good Governance Brawijaya Universitas Brawijaya

Universitas Brawijaya The idea of governance, as distinct from government, has become Universitias Bra intellectually fashionable in academic circles over the preserved forest Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra areas decade or so, constituting a new conceptual paradigm that lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra embodies i ideas sabout i dispersal rand fragmentation of formerly i ava centralized state authority, the increasing involvement of civil society in delivery of public goods and services, and network collaboration of a wide range governmental and non-governmental bodies in the pursuit of public purposes and the public interest (Gregory, 2014, p.15).

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While 'government' can be understood as an entity, embodying such components as the 'machinery of government', governance is better understood as a process. 'Good governance', therefore, refers to liava processes that work well or badly according to certain criteria. Just what these criteria are or should be is a matter of political choice. Good governance occurs in a democratic polity in which officialdom (political and administrative) serves the interests of all, is non-corrupt, is not given to the abuse of power, seeks effectively to reduce inequality, unemployment and poverty, uses public resources in the pursuit of lave awijaya Universitas Brawijaya Universitas Bra collective purposes, operates, according to the rule of law, and maintains/ijaya Universitas Brawijaya Universitus Brawijaya Universitas Bra fair and open electoral process. Good governance is experienced by java Universitas Bra people in a wider community of shared interest, a polity which may be lava another way of saying that good governance is a process which effectively promotes and secures some albeit elusive notion of the public

Universitas Bra interest (Gregory, 2014, p.16).



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University Brawley Kaufman et al., as cited by (World Bank, 2014) describe governance as the traditions and institutions by which authority in a country is exercised. In a related way, United Nation Development Program (UNDP, 2014) interprets governance as the exercise of economic, political, and administrative authorities to manage a country affair at all levels. It comprises some mechanisms, processes, and institutions through which citizens and groups articulate their interests, exercise their chartered rights, meet their obligations, and mediate their differences. This definition not only navigates the other overly broad or narrow definitions but also, simultaneously promotes a beneficial way of thinking in understanding governance issues.

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The World Bank popularized the use of the term governance as a concept that is different from the government since 1992. According to the World Bank good governance is a combination of the two terms good and governance where the two are inseparable. Good governance as a form of development management, which is also referred to as the administration building, which puts the role of central government that becomes Agent of change of a society growing/developing in developing universitas Brawliaya Univer

Kaufman et al., as cited by the (World Bank, 2014) called good governance is a concept in the implementation of development management of reliable and responsible in line with the democratic and

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awijaya awijaya Universitas Brayefficient markets, avoidance of wrong allocations and investments are rare and the prevention of corruption both political and administrative, Universitias Bravrunning a budget discipline and the creation of a legal framework for the layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braigrowth of entrepreneurial activity. Also, the World Bank also called the lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braigood governance as synergistic and constructive relations between the lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra state, private sector, and public.

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Universitas Brawijaya IUCN stated that achieving good governance is critical to the success in all four governance types. Good governance is a measure of how far certain principles and values are adhered to. These may be derived at the national level, for examples as enshrined in constitutions, legislation, policies, cultural practices, and customary laws, or they may come from internationally agreed principles for good governance, developed by international organizations and conventions. Although governance values are influenced by the cultural context, we assume that some norms can be taken into account across all cultures (Borrini-Feyerabend et al., 2014, p.57). Good governance might be defined as a mode or model of governance that leads to social, environmental and economic result sought by citizens (Graham et al., 2003, p.6). Itas Brawijaya

From the various terms of good governance can be concluded that Universitias Braithe concept of good governance in the administration of the use of lava Universitas Bra political authority and power to manage resources for community and development that robust and accountable effectively through rulemaking, policies and also applying principles and values are valid Universities Brayand which refers to the welfare of the people, decision-making, Universitas Bra governance and policy implementation. as Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya According to UNDP, good governance comprises the existence of effective mechanisms, processes and institutions through which citizens Universitias Brayand groups articulate their interests, exercise their legal rights, meet their layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities Bra obligations and mediate their differences, in which its essential and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra characteristics are: Brawijaya Universitas Brawijaya Universitas Brawijaya

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- 1. Participation. All men and women should have a voice in decisionmaking, either directly or through legitimate intermediate institutions that represent their interests. Such broad participation is built on freedom of association and speech, as well as on the capacity to participate constructively,
  - Rule of law. Legal frameworks should be fair and enforced impartially, niversitas Brawijaya particularly the laws on human rights.
  - 3. Transparency. This concept is built on the free flow of information. Processes, institutions and information should be directly accessible to those concerned, and enough information should be provided to render them understandable and monitor able.
  - 4. Responsiveness. Institutions and processes should serve all stakeholders.

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- Universitias Bra 5. Consensus orientation. Good governance should mediate differing jaya Universitas Brawijaya Universitus Dannieva Universitas Brawii interests in order to reach broad consensus on the best interests of liava Universitas Brawii the group and, where possible, on policies and procedures. Las Brawiiava
- 6. Equity. All men and women should have equal opportunity to maintain or improve their well-being. Universitas Brawijaya Universitas Brawija

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Universitas Bray 7. Effectiveness and efficiency. Processes and institutions should produce results that meet needs while making the best use of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

- Universities Bra 8. Accountability. Decision-makers in government, the private sector lave Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitian Brawii and civil society organizations should be accountable to the public as illaya well as to institutional stakeholders. This accountability differs depending on the organization and whether the decision is internal or external to an organization.
  - 9. Strategic vision. Leaders and the public should have a broad and long-term perspective on good governance and human development, together with a sense of what is needed for such development. There should also be an understanding of the historical, cultural and social complexities in which that perspective is grounded.

Principles set out above is a characteristic that should be met regarding good governance relating to the control and control, namely control of a good government that the way and manner of use truly achieve the desired outcome stakeholders.

However, the institution ways interpret the quality of governance lava Universitas Braias right or wrong, varies from one to another. In various places, good lava Universitas Brawijaya Universitas Brawijaya Universitas Bra governance has been associated not only with economic development, ilava Universities Bra but also with democracy and good civil rights, or with transparency, or level with the rule of law, or with efficient public services (World Bank, 2014).

### Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universita 2.2.4. Protected Area Governance Universitas Brawijaya Universitas Brawijaya

During the past decade, the term "governance" has grown in importance and is used in many contexts, including that of protected



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Universitas Bravareas. As defined above, governance refers to principles, policies and rules regarding decision-making- all clearly relevant in the case of Universitias Brain protected areas. The concept, however, is so rich that, like the concept lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra of a protected area itself, it needs to be "unpacked" for meaningful ava Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijava Governance is nothing new: someone, somewhere, has always been taking decisions about protected and conserved areas. The new things are paying better attention to governance, articulating concepts, and monitoring and evaluating practice. Stas Brawleye

There is no ideal governance setting for protected or conserved areas, but a set of "good governance" principles can always be considered. Governance is appropriate only when tailored to its specific context and effective in delivering lasting conservation results, livelihood benefits and the respect of rights. Governance is the variable with greatest potential to affect conservation coverage. Governance is a main factor in determining the effectiveness and efficiency of management and the appropriateness and equity of decisions. It also can ensure that protected areas are better embedded in society. Governance in layer awijaya Universitas Brawijaya Universitias Brail protected areas can be improved and provide precious help in facing on illaya Universities Universitas Bra going challenges and global change, sitas Brawijava Universitas Brawijava

Universities Brawliava There is diversity of governance for protected areas when lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya decisions are made by a variety of factors that enrich and strengthen conservation in practice. For instance, a national system of protected areas can enhance governance diversity by including in the system Universitas Bravareas governed by different types of actors and under different Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Bra arrangements, and/or by providing better recognition and support to conserved territories and areas outside the system. Conservation Universitias Brandepends on well governed systems of protected areas in the landscape lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra and seascape and systems are made stronger by governance diversity.

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Universitas Brawijava Protected area governance also can be defined as the art of java steering societies and organizations. Whether or not steering is the appropriate word, it seems clear to us that protected area governance is the interactions among structures, processes and traditions that determine how power and responsibilities are exercised, how decisions are taken, and how citizens or other stakeholders have their say in the management of protected areas. Fundamentally, it is about power, relationships and accountability: who is influence, who decides, and how decision-makers are held accountable (Graham et al., 2003, p.2-3). This definition is referred by numerous scholars conducting research of protected area governance.

In line with previous explanation of good governance above, good governance in protected areas can be reached when decisions are made while respecting the good governance principles developed awijaya Universitas Brawijaya Universitias Braithrough time by a variety of peoples, nations, and UN agencies. IUCN/jaya Universitas Brawijaya Universitas Diametro Universitas Brayformulated the principles of good governance for protected areas, ilava Universitas Bra includes: legitimacy and voice, direction, performance, accountability, lava fairness and rights. Thus, a good governance situation is one in which decisions are taken legitimately, competently, fairly, with sense vision accountability and while respecting rights. This IUCN good governance Universitas Bra situation can also be summed up as equitable and effective governance. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universities Bra The criteria of legitimacy, voice fairness substantive) rights contribute to equitable governance. The criteria of Universitas Bra direction, performance and accountability lead to governance that is Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braveffectivė niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijava Lockwood in Kisingo et al. (2016) drew on (also critiqued) these java universities Bra and other source and, coupled with expert panels and field tests with PA officials, suggested a list of seven principles, including legitimacy, transparency, accountability, inclusiveness, fairness, connectivity, and resilience. Each of these principles was associated with a set of 'performance outcomes', or standards against which performance can be evaluated (Lockwood in Kisingo et al., 2016). There is some degree of overlap between these various sets of principles, what each principle is intended to encompass, and the indicators associated with those principles. Connectivity and resilience are concepts that are not obviously associated with the principles mentioned in Table 2.2. Graham stated that connectivity broadly refers to connections across scales and geographies while resilience broadly refers to the level of disturbance that can be accommodated without the system being reconstituted and awijaya Universitas Brawijaya Universitas Bray (Graham in Kisingo et al., 2016).

Universitas Brawijava There are a13 governance criteria were developed for social-ijava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities Bra ecological assessment: legitimacy, transparency, accountability, level involvement, participation, strategic fairness, achievements/outcomes management ecosystem-based effectiveness, responsiveness, consensus orientation and powers.

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Universitas Bra These governance criteria is a result from literature survey (Kisingo et Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitias Bra Table 2.2. UNDP and Institute on Governance principles of Good Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brav Governance rsitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Principles by Institut	onsjaya Universitas Brawijaya	Universitas Braw
Institute or	UNDP Universitas Brawijaya	Universitas Braw
	rawijaya Universitas Brawijaya wijaya Universitas Brawijaya	
Legitimacy	Participation sitas Brawijaya	Universitas Braw
Direction	Strategic vision Brawijaya	Universitas Braw Universitas Braw
Performance	Responsiveness, Effectivene	
Accountability	Accountability and Transpare	ency ency ency ency ency ency ency ency
Fairness	Equity, Rule of Law	Universitas Braw

Source: Kisingo et. al (2016) in Evaluating 'good governance': The development of a quantitative tool in the Greater Serengeti Ecosystem.

### 2.2.5. Evaluating Governance

The evaluation of governance processes is aimed at providing and information about, learning from and improving governance processes, so as to, e.g., enhance the fit between policies (and the administrative structures that sustain them) and the features of the social-ecological systems they address. In addition, Europe Union member states have committed themselves through the Aarhus Convention (2001) to Universitas Bra respecting a set of normative requirements for policy formulation and Universitas Bra implementation. In this context, evaluation makes it possible to monitor layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bravcompliance ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawijava Challenges to evaluating governance processes are debated in Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya universitas Bra the literature: they address, among other things, the evaluator's perspective (ex-ante vs. ex-post vs. on-going); the question of who takes part in defining the aim of the evaluation and the selection of criteria; the

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Universitas Brayorganization of the evaluation exercise itself; and the tension between a Universitas Brayscientific realist and social constructionist worldview.

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Universitas Brawijaya Evaluation is a process by which the results of the assessment are Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra examined vis-à-vis specific objectives, goals, and values. In addition, laya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra evaluation vis sa sprocess that needs for a changes hare ridentified. Furthermore, evaluation can be described as a clear set of recommendations is developed to move closer to desired situation (Borrini-Feyerabend et al., 2014, p.66).

There are two different approaches to evaluate governance namely outcome-oriented and process-oriented. The outcome of a governance process can be analyzed with regard to its direct outputs and the consequences of such outputs with respect to the objectives being targeted. Good processes contribute to good governance in different ways. First, good processes improve the substantial quality of the output through more and better information management and learning effects within the process. Second, a good process is instrumental for the implementation of the output-legitimate processes stand a better chance of getting their results accepted. The third lave awijaya Universitas Brawijaya Universitias Braiargument, mentioned in the introduction and reinforced by the Arhus Java Universitas Brawijaya Universitas Brawijaya Universities Bra Convention, focuses on the normative aim of certain characteristics of liava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra governance processes, such as openness and participation Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra. (Rauschmayer et al., 2009, p.9-10). rsitas Brawijaya

### Universit 2.2.6. Evaluating Protected Area Governance

Assessing and evaluating governance of protected areas can be defined as understanding and analyzing the exercise of authority,

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awijaya awijaya Universitas Brayresponsibility and accountability for a protected area system or specific site (assessment), and drawing conclusions and recommendations (evaluation) in light of the protected area's mission and objectives and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braithe shared values of the wider society. It can be initiated and driven by Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braymany actors, including individuals, NGOs, academics, communities, lava protected area management bodies or other agencies of government.

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Universitas Brawijaya Over the last two decades robust means of evaluating the management of protected areas have been developed, however, the evaluation of governance has lagged behind. These protected area evaluations, abbreviated as PAME (Protected Area Management Effectiveness), provide an overall framework or way of assessing how a protected area or system is performing (Shields et al., 2016, p. 40). The majority of evaluations are based upon the IUCN World Commission on Protected Areas Framework. This framework has six components: context, planning, inputs, process, outputs and outcomes. Governance appears as only one of 34 headline indicators servicing PAME evaluations, as the process indicator of 'Effectiveness of governance and leadership' (Leverington et al., 2010).

Lockwood (2010) provides one of the few published efforts to Universitas Brawijaya Universitas Brawijaya Universitas Bravintegrate evaluation of aprotected areas governance with a PAME/ijaya Universitas Bra evaluations. He suggests placing good governance principles 'above' the evaluation components of context, planning, inputs, process, outputs, and outcomes, while alerting us to the need to consider governance in all six components. Under his schema, the governance Universitas Bra indicators being developed in this paper would most likely contribute to layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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evaluating the principles of good governance (Shields et al., 2016, p.40). In line with this schema, this research will evaluate protected area Universitias Braigovernance based on applying good protected area governance. S Brawlaya

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Universitas Brawijaya Numerous scholars propose participatory evaluation process in Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra evaluating governance of protected areas. Considering a governance lava process involves multiple actors with multiple preference leading to multiple goals so that it is important to use a participatory evaluation process (Rauschmayer et al., 2009, p.19). Participatory evaluation process can be defined a process where primary stakeholders - those who are affected by the intervention being examined - are active participants, take the lead in tracking and making sense of progress towards achievement of self-selected or jointly agreed results at the local level, and drawing actionable conclusions (Hilhorst and Guijt, 2006, p.4). In term of preserved forest area, local community can be called as primary stakeholder because local community are active participants and is affected directly by forest management. In addition, Focusing on the perceptions of local community members also presents an opportunity to examine the relationships between the various good awijaya Universitas Brawijaya Universitas Bra governance principles and indicators associated with them in literature layar University Universitas Bra (Kisingo et al., 2016, p.750). This research will present evaluating lava Universities Bra governance of protected areas not only from government official view but also considering local community and forest business actors.

# 2.2.7. Principles for Good Governance in Protected Areas

Universitas Brawijaya As mentioned earlier (p.27), Lockwood (2009) suggested a list of Universitas Bra 7 (seven) principles that can be used to assess governance in protected lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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Universities Bra Table 2.3. The Relation Between Good Governance Principles from Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya UNDP, Institute on Governance, and Lockwood, iversitas Brawijaya

vijava Lockwoodsitas E	Institute on Governance	as Brawijaya UNDPversitas Brawi
Legitimacy and Inclusiveness	Legitimacy and Voice	Participation ava Universitas Brawi
Connectivity in the	Direction Universit	Strategic Vision/a Universitas Brawi
Resilience and Adaptability	Performance	Responsiveness, Effectiveness and Efficiency
Accountability and Fairness	Accountability	Accountability and Transperency Las Brawl
Fairness	Fairness	Equity, Rule of Law Universitas Brawi

Source: Researcher analysis elaborated from some sources sitas Brawijaya

This study will use the principles for good governance developed by Lockwood, namely:

- 1. Legitimacy. Legitimacy is "the acceptance and justification of shared available. rule by a community ... the question of legitimacy concerns who is entitled to make rules and how authority itself is generated" (Bernstein 2005, p. 142-3). Legitimacy is therefore a key factor in the ethical acceptability of governance arrangements. With respect to protected areas, legitimacy encompasses:
- a. The validity of an organization's authority to govern that may be: University Universitas Brawijaya conferred by law or democratic mandate, earned through the ijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Brawijava acceptance of stakeholders and or, earned through long lava Universitas Brawijava association with particular place; tas Brawijava Universitas Brawijava
- b. The extent to which the governing body's decisions and actions are consistent with its mandate and the objectives of the protected Universitas Brawijaya areas for which it is responsible; tas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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c. The integrity and commitment with which authority is exercised.

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- Universitas Bra 2. Transparency. Transparency is a requirement, grounded in ethics, of Universitas Brawli stakeholders" right to know about matters that affect them. In general, Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya all decisions about protected areas should be accessible to available Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawij stakeholders. Transparency is required in who has made a decision, ijaya the means by which it has been reached, and its justification. It refers
  - a. The visibility of decision-making processes:
  - b. The clarity with which the reasoning behind decisions is communicated;

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- c. The ready availability of relevant information about a governance niversitas Brawijaya authority's performance.
- 3. Accountability. Instrumental conditions for effective accountability and good protected area governance are that: first, the roles and responsibilities of governing bodies and their personnel are precisely identified; and second, governing bodies have demonstrated acceptance of these responsibilities, for example through their plans and activities. It refers to:
- Universitias Braw, a. The allocation and acceptance of responsibility for decisions and lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya actions, sitas Brawijaya Universitas Brawijaya Universitas Brawijaya
- Universities Brawn b. The extent to which a governing body is answerable to its Universitas Brawijaya Constituency; and Universitas Brawijaya Universitas Brawijaya
- c. The extent to which a governing body is answerable to higher-level Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Bray 4. Inclusiveness. Inclusiveness refers to the opportunities available for all stakeholders to participate in and influence decision-making Universitas Brawli processes and actions. Governance is regarded as inclusive when all Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Brawli those with a stake in governance processes and their outcomes can lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Brawii engage with them on a basis equal to that provided to all other layer Universitas Brawijastakeholders as Brawijaya Universitas Brawijaya

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- a. The respect and attention given to stakeholders"
- b. The reciprocal respect between higher and lower level authorities;
- c. Consistency and absence of personal bias in decision making;
- d. Recognition of human and indigenous rights;
- e. Recognition of the intrinsic value of nature; and
- f. The consideration given to the intra- and intergenerational distribution of costs and benefits of decisions.
- Connectivity. It requires:

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- a. Effective coordination within and between levels of governance;
- b. Coherence in broad policy intent and direction within and between levels of governance; and
- Universitias Brawnic. Allocation of power to those institutional levels that best match the liava University Universitas Brawijava scale of issues and values being addressed va Universitas Brawijava
- Universities Br. 7. Resilience and Adaptability. Resilience refers to the amount of change or disturbance that can be absorbed by a system before it is reconstituted into a different set of processes and structures (Gunderson & Holling 2000). Important elements of resilient Universitas Brawij governance for protected areas are: as Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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Universitas Brawijaya a. Incorporating new knowledge and learning into decision-making Universitas Brawijaya implementation awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Brawilleb. Finding the right balance between flexibility and security; las Brawillava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Brawii c. Anticipation and management of threats, opportunities and risks; Universitas Brawijaya and iversitas Brawijaya Universitas Brawijaya d. Systematic reflection on individual, organizational and system performance. Universitas Brawijaya universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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### Univer CONCEPTUAL FRAMEWORK WIJAYA

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The conceptual framework of the research is a relationship or link between ways one concept to other concepts of the problem to be investigated. The conceptual framework is useful to explain a topic to be discussed. The conceptual framework is expected to provide an overview and direct assumption about factors that will be Universitigated.

### University 3.1. Evaluating protected area governance

As mentioned before in literature review, evaluating protected area governance is developed from PAME scheme. PAME scheme itself is a scheme that is used to assess the effectiveness of management where governance is one of its components. Instead, Lockwood (2009) developed an evaluating scheme that focuses on assessing governance quality governance referring to its scheme. Governance quality itself can be defined as a product Universitas Brawijaya of ethically and rationality sound processes and actions. Ethics and rationality University thus provide twin bases to support identification of governance principles. The lava University protected area governance principles provide a rational and ethical basis liava assessing protected area governance. Each principle indicates a series of outcomes that need to be met for an organization or individual to demonstrate good governance performance described in Table 2. An assessment of good governance can therefore be structured around these 31 desired outcomes.

University This scheme is more suitable lift using qualitative interviews and layer Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya complementing by documents analysis. These activities are a basis for lave University summative assessment of governance quality, and also support versitas Brawijaya



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Universitas Brawijaya recommendations and suggestions to improve performance that is the Universitas Brawijaya Universitas Brawijaya

Universita Table 3.1. Principles and Outcomes Universitas Brawijaya Universitas Brawijaya

Universitas		sitas Brawijaya Universitas Brawijaya Universitas Brawija
Universitas	Brawi Principle Inivers	tas Brawijaya Universit Outcomevijaya Universitas Brawija
Universitas	Brawijaya Univers	The governing body is conferred with a legal or democratically mandated
Universitas	Brawijaya Univers	authority Stakeholders freely accept the governing body's authority
Universitas	Brawijaya Univers	The governing body acts in accordance with its mandate Universitias Bray
Universitas	Braw Legitimacy nivers	The governing body's powers and responsibilities enable management that is
Universitas		consistent with the IUCN definition of a protected area and the associated
		guidelines for protected area categories  The governing body has a long-standing cultural or spiritual attachment to some
Universitas		or all of the lands within the protected area
Universitas		Governors act with integrity and commitment
Universitas	Brawii	Governance and decision-making is open to scrutiny by stakeholders as Bray
Universitas	Transparency	The reasoning behind decisions is evident
Universitas	-17	Achievements and failures are evident Information is presented in forms appropriate to stakeholders' needs
Universit	100	va Universitas Bravija
Univer	4	The governing body and personnel have clearly defined roles and responsibilities
Uniy	Accountability	The governing body has demonstrated acceptance of its responsibilities
Uni	7 loodanability	The governing body is answerable to its constituency ("downward" accountability)
Uni	7. 5.	
	11/10	All stakeholders have appropriate apportunities to participate in the governing
Uni	Inclusiveness	body's processes and actions
Unii Univ	II ICIUSIVEI IESS	The governing body actively seeks to engage marginalised and disadvantaged stakeholders
Univ		Stakeholders, office-bearers and staff are heard and treated with respect
WA A	1,214	There is reciprocal respect between governors from higher and lower level
Unive	150	authorities  Decisions are made consistently and without bias
Univer	Fairness	Indigenous peoples' and human rights are respected
Univers		The intrinsic value of nature is respected
Universit	W	The distribution (intra- and intergenerational) of the benefits and costs of
Universita	\ a	decisions and actions are identified and taken into account
Universitas		The governing body is effectively connected and coordinated with governing bodies at different levels of governance
Universitas		The governing body is effectively connected and coordinated with governing
Universitas	Bra	bodies operating at the same governance level
Universitas	Rya Connectivity	The governing body's direction and actions are consistent with directions set by
Universitas		higher-level governance authorities
Universitas		The levels at which power is exercised (local, sub-national, national, international) match the scale of associated rights, needs, issues and values
Universitas		itas biawijaya Oliveisitas biawijaya Oliveisitas biawija
	Brawijaya Univers	The governing body has processes to assimilate new knowledge and learn from
Universitas	Brawijaya Univers	experience wijaya Universitas Brawijaya Universitas Brawija
Universitas		The governing body has the flexibility to rearrange its internal processes and
Universitas		procedures in response to changing internal or external conditions
Universitas		Formal instruments or mechanisms provide long-term security tenure and purpose for the protected area(s)
Universitas		The governing body utilises adaptive planning and management processes
		The governing hady been precedured to identify access, and manage risk

Universita Source: Lockwood (2009) in Governance assessment of terrestrial protected University areas: A framework and three case studies. The Brawliaya University Brawliaya

The governing body has procedures to identify, assess, and manage risk

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3.2. The Effect of Applying Good Governance Principles on Forest

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Bra Understanding the relationship between governance and forest layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University sustainability is similar with understanding the effectiveness of protected area.

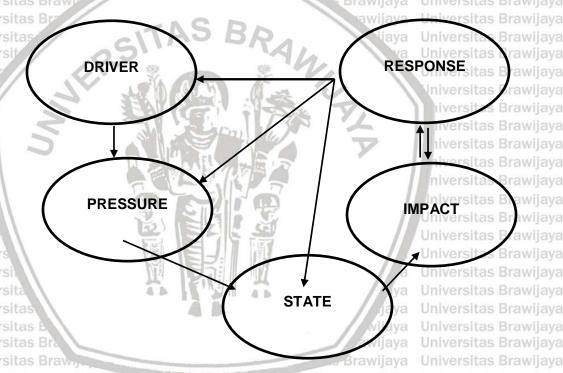
niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University The effectiveness of protected area can be illustrated by using a DPSIR lava (drivers, Pressure, State, Impact, and response) framework that can be seen

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in figure 1.

Figure 3.1. DPSIR Framework



Universit Source: Geldman (2013) in Evaluating the effectiveness of protected areas for lava maintaining biodiversity, securing habitats, and reducing threats.

DPSIR framework adopted by the European Environmental Agency is extension of the pressure-state-response framework used by Organization for Economic Corporation and Development (OECD). In this framework, driver refers to quality of governance (good governance), pressure

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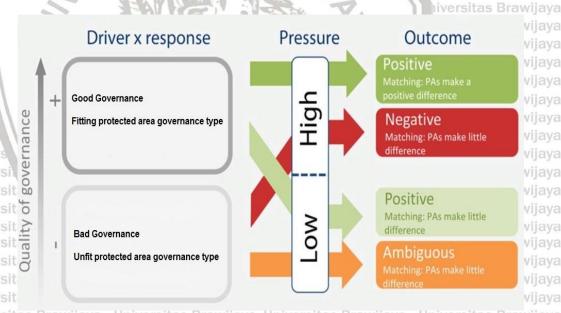
refers to factors that encourage deforestation such as agricultural expansion and wood extraction, state refers to forest condition such as forested area and biodiversity, impact refers to the change of ecological such as deforestation and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit of social such as people welfare, and response refers to the establishment of layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University protected area and also governance type. From this framework, it is clearly seen it are that response including governance type affects the whole components.

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Eklund and Cabeza (2016) proposed a simple framework to illustrate the link between governance types, governance quality, pressure and outcome referring to DPSIR framework above (Eklund and Cabeza, 2016, p.3). This framework then has been modified to adjust with this research (Figure 2).

Figure 3.2. Framework of Governance Effect on Management Effectiveness



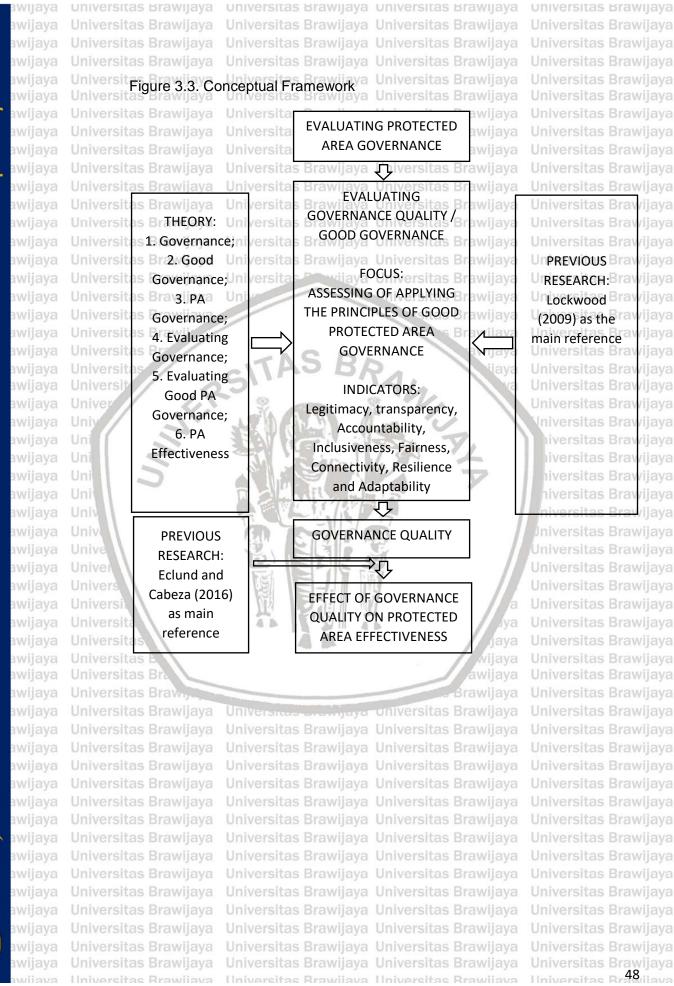
Source: Eclund and Cabeza (2016) in Quality of governance and effectiveness of protected areas: crucial concepts for conservation planning.

This framework illustrates combinations where the response may take place in a context of good and bad governance and the pressure may be high or low. The column for outcomes includes two types of measure: a direct Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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                 evaluation of the state/impact with only those in green having positive outcomes.
                 and counterfactual matching outcomes with only dark green showing protected
        areas as being effective and not being able to distinguish between the other
        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
        Universithree combinations ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya
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        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
        Universitias BranGood governance in combination with high pressure ican result in it available.
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        avoided deforestation and thus a positive outcome reflected by matching
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                 approaches. Instead, poor governance and high-pressure result in negative
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                 outcomes (example: high deforestation). On other hand, low pressure will also
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                 result in few differences between compared areas, regardless of whether there
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                 is scope for effective management.
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                        Referring to those frameworks, it can be formulated the conceptual
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                 framework for this study as follow:
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### Universitas Bravella PTER IV

### Universitas RESEARCH METHOD Brawijaya

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This study used qualitative method. It is line with the suggestion from Lockwood (2009) who developed framework of evaluating governance in protected areas. It considers the complexity of each outcome, and diverse forms and contexts in which protected area governance occurs.

Qualitative data is interesting. Qualitative data is a source of wide description and firmly grounded and also contains explanation about process happened in local scope. In qualitative method, we can follow and understand chronologically the flow of events and assess causality in mind local scope. It can also obtain a lot of useful explanations.

### Unive 4.2. Locus and Focus

### 4.2.1. Locus

This study was conducted in two areas. First, village of Umo Jati located in sub district of Lintang Kanan, Empat Lawang regency. This village is adjacent to the preserved forest area of Bukit Dingin representing protected area managed by the state. Second, village of Pengentaan located in sub district of Mulak Ulu, Lahat regency. This village is adjacent to the preserved forest area of Bukit Patah representing protected area managed by the local community in the scheme of community-based forest management.

The selection of research sites due to several things as follows:

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1. These locations are located in the upstream area of Musi watershed Universitas Brawija having important role in protecting downstream areas not only in Universitas Brawlia ecological aspect but also in social aspect. Failure in the upstream laya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawija area management of the watershed will have a broad impact on the layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawija watershed as a whole. On the other hand, proper upstream DAS java management will improve the overall watershed quality as well.

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2. Both locations are located adjacent and have similarities in landscape and socioeconomic conditions. This will minimize the possibility of bias in governance impact analysis of protected area sustainability. It is in line with the framework proposed by Eklund and Cabeza (2016) that there are three components influencing the niversitas Brawijaya outcomes on protected areas namely drivers, responses and pressures. These locations will eliminate influence of pressures.

### 4.2.2. Focus

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This study focused on evaluating governance quality and governance effect in two protected areas with different governance type. Evaluating of governance quality emphasized on assessing the application of good protected area governance principles referring awijaya Universitas Brawijaya Universitas Braw Lockwood's framework that consists of legitimacy, transparency, layar Universitas Brawijaya Universitas Brawijaya Universitas Brawiaccountability, inclusiveness, fairness, connectivity, resilience, and lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities Braw adaptability. Furthermore, governance effect was evaluated to lave examine whether applying good governance principles improves the effectiveness of protected areas or not. Effectiveness of protected areas was assessed through deforestation rate. Universitas Brawijay

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Source of data is one of the most vital aspects in the research. If there is error in using or understanding the source of data, then the data obtained will also be questioned. Therefore, researchers should be able to understand which sources of data are used appropriately in the research.

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Universitas Braw According to the research focus and problems, there are two sources layar Universitas Brawijaya Universitas Brawijaya

- a. Informants. Choosing the informant is based on the subject matter related to the title, focus, problems, person owning some data and ready to share data to the researchers. This study used interview technique to collect data from the informants. In this study, the informants are forestry officials, LMDH members, farmer group members, forest business actors, and other parties who have interests with forest policy.
  - b. Documents. Documents used in this study are documents of legislations,
     regulations, policies, plans, reports, memorandum of understanding,
     statistic book, maps, satellite imagery and other documents.

# 4.4. Technique of Collecting Data

The fundamental methods relied on by qualitative researchers for gathering information are, participation in the setting, direct observation, in depth interviewing, and document review (Marshall, Gretchen B. Rossman in Sugiyono, 2015). In this study, gathering information was conducted through interviewing and document analyzing.

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Esterberg (2002) defined interview as a meeting of two persons to exchange information and idea through question and responses,

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Universitas Braw resulting in communication and joint construction of meaning about a Universitas Brawitopic (Esterberg in Sugiyono, 2015). Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya In this study, interview used a guideline of semi structure laya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braw interview developed from 31 statements that is developed by available Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw Lockwood (2009). Interview will be addressed to protected area lava governing body, local community, forest business actors, and those Universities Braw interested in or affected by governance processes, decisions and outcomes. Governing body can be divided into two types namely forestry agency for state-based management and institution of village forest community (LMDH/Lembaga Masyarakat Desa Hutan) for community-based management.

### 4.4.2. Document Analyzing

Document analyzing was conducted to complement interview process especially in ensuring the credibility of information. In this study, maps or satellite imagery also was used to determine deforestation rate. It has to be conducted because there is no instant data of deforestation for each unit of forest management. ersitas Brawijaya

### 4.5. Data Analysis

### Universita 4.5.1. Design of Data Analysis

Universitas Brawijaya Analyzing data is used to solve the research's problems. In this ijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bravesearch, the data analysis used qualitative data analysis conducted by lava describing the collected data. Data analysis in this research will use interactive model. Furthermore, Miles and Hubberman (2014) claimed that the analysis using the interactive model can be done in the following

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three procedures namely: reducing data, displaying data and drawing Universities Bra conclusions that can be seen in Figure 4.1.

Universitas Bra Figure 4.1. Design of Data Analysis (Miles et al., 2014) Universitas Brawijaya

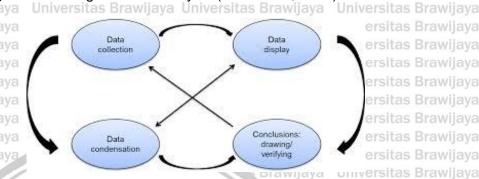


Figure source: Miles, Huberman, and Saldana (2014) in Qualitative Data Analysis – Third Edition.

- a. Data Condensation. In qualitative research, data condensation refers to the process of selecting, focusing, simplifying, abstracting, and/or transforming the data that appear in the full corpus (body) of writtenup field notes, interview transcripts, documents, and other empirical materials. By condensing, we are making data stronger. Data condensation is a part of analysis (Miles, Huberman and Saldana, 2014).
- b. Data display. The notion of data display is intended to convey the idea Universitias Brawn that data are presented as an organized, compressed assembly of Java Universitas Brawij information that permits conclusions to be analytically drawn. These ijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawij displays assist the researcher in understanding and observing certain/java patterns in data or determining what additional analysis or actions Universitas Brawijaya Universitas Brawijaya
- c. Drawing and Verifying Conclusions. The third stream of analysis Universitas Brawil activity is conclusion drawing and verification. Conclusion drawing is

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Universitas Brawl only half of a Gemini configuration. Conclusions are also verified as Universitas Brawii the analyst proceeds (Miles, Huberman and Saldana, 2014).

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Universitias Bra. The coding of data, for example (data condensation), leads to new ideas Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra on what should go into a matrix (data display). Entering the data requires lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bra further data condensation. As the matrix fills up, preliminary conclusions lava are drawn, but they lead decision, for example, to add another column Universities Braw to the matrix to test the conclusion (Miles, Huberman and Saldana, 2014)

> Qualitative data analysis is a continous, interative enterprise. Issues of data condensation, display, an conclusion drawing/verification come into play successively as analysis episodes follow each other.

### 4.5.2. Assessing governance quality in state-based management as Brawijava

As mentioned before, assessing governance quality refers to 31 outcomes of governance principles (table 3.1, p. 43). A content analysis is performed on the interview transcripts and text block sorted into those outcomes. These data, together with relevant documentary evidence are used to make judgments about the performance of the organization against each outcome. In presenting these judgments, efficiency of lave vijaya Universitas Brawijaya Universitias Brainpresentation led to some outcomes being combined. From the evidence, il ava University of the second Universitias Brava summative sjudgment ifor each outcome is made according the ilava following qualitative scale: very low, low, moderate, high, very high. These judgments are then aggregated for each principle according to the following decision rules: substantial improvement desirable for one Universitas Bra or more very low or low outcomes, improvement desirable for two or Universitas Bra more moderate outcomes, high level of performance for one moderate lava

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Province of South Sumatera is stretched along the equator

between 1° to 4° South latitude and 102° to 106° East longitude. South Sumatera is the seventh province with the largest area in Indonesia in which total area in South Sumatera is 87.421,17 Km². South Sumatera is directly bordered by 4 (four) provinces namely Jambi in the north, Lampung in the south, Bangka Belitung in the east, and Bengkulu in the west.

Figure 5.1. Map of South Sumatera Province



South Sumatera has varying topographic conditions namely 23.5% area with altitude 0-25 meter, 17.7% area with altitude 26-50 meter,

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Universitas Braw 35.3% area with altitude 51-100 meter and 23.5% area with altitude more than 101 meter above sea level. There is swamps and brackish Universitas Braw areas influenced by tide with mangrove and palms in the east coast. Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braw There are broad plains in a little more to the west. There is also Barisan laya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw hills dividing the island of Sumatera which is a mountain area with an illava altitude of 900-1200 meter above sea level. Barisan hills consists of Seminung mountain (1,964 meter), Dempo mountain (3,159 meter), Patah mountain (1,107 meter) and Bengkuk mountain (2,125 meter). There is slope area in the west of Barisan hills.

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Furthermore, South Sumatera is an upstream area of Musi Watershed covering 3 (three) provinces. This causes South Sumatera to play a strategic role in the conservation of natural resources. There are several major rivers in South Sumatera namely Mesuji river, Lalan river, Banyuasin river, Musi river, Ogan river, Komering river, Lematang river, Kelingi river, Lakitan river, Rupit river, and Rawas river. Almost those rivers are sourced from Barisan hills and empty into the strait of Bangka except Mesuji river, Lalan river and Banyuasin river.

Climate classification based on temperature and humidity with Universitas Braw the symbols A and B. Climate A or tropical: the average monthly jaya Universities Braw temperature not less than 18°C, average annual temperature 20°C-25°C, rainfall averages more than 70 cm/year. Climate B or desert climates or tropical dry climate with characteristics: there are desert universitas Braw areas and areas semiand (steppe), the lowest rainfall of less than 25,4 Universitas Brawigaya cm/year and large evaporation. Inversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Community forest of Pengentaan is located in Preserved Forest

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Area of Bukit Patah which belong to sub district of Mulak Ulu, Lahat

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Universitias Braw District. The total area allowed for this community forest is 474 lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

hectares. The average altitude of this area is 550-700 meter above sea

Universitian Braw level. The average annual number of rainy days and rainfall is 10.8 page 10.10 pa

Universitas Brawidays and 196.08 cm. Wijaya Universitas Brawijaya

Village of Umo Jati is located in near of Preserved Forest area

of Bukit Dingin which belong to sub district of Lintang Kanan, district of

Empat Lawang. The average altitude of this area is 400 - 2.750 meters

above sea level that is the highest sub district in Empat Lawang. Brawliava

### 5.1.2. Demography

### 5.1.2.1. Population

Population data is the primary data required by government or private as the material for the planning and evaluation of development outcomes.

Table 5.1. Number of Population

Year	Man	Woman	Total	ersitas Brawijaya ersitas Brawijaya
2011	3.861.485	3.737.044	7.598.529	ersitas Brawijaya ersitas Brawijaya
2012	3.920.498	3.793.828	7.714.326	ersitas Brawijaya ersitas Brawijaya
2013	3.978.712	3.850.028	7 9 2 9 7 1 0	ersitas Brawijaya ersitas Brawijaya
2014	4.035.989	3.905.506	7.941.495	ersitas Brawijaya ersitas Brawijaya
2015	4.092.177	3.960.138	8.052.315	ersitas Brawijaya ersitas Brawijaya

U Source: South Sumatera in Figures 2015-2016 Versitas Brawijaya

U Based on registration in 2015, the population in South lava

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Sumatera Province reached 8,052,315 with population growth



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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya rate reached 1,40% compared with the previous research year (2014), which consists of 4,092,177 men and 3,960,138 women with a sex ratio figures show 1,03. Population growth Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya In South Sumatera experiences decline trend from 2012 to layer Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Un2015 accounting for 1,52%, 1,48%, 1,44%, and 1,40% lava respectively. With an area of 87.421,17 Km<sup>2</sup>, South Sumatera has density of 92.11, meaning that in every 1 square kilometres on average inhabited by 92.11 people. City of Palembang is the area with highest density recorded for

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4345,90 people/km<sup>2</sup> while District of Musi Rawas Utara is area with lowest density recorded for 31,32 people/km<sup>2</sup>. In 2015, South Sumatera is dominated by productive age (15-59) accounting for 5,164,770 or 64.14% from total population.

Even though experiencing decrease trend of population growth, population density still experiences increase trend in period from 2011 to 2015 accounting for 86.92, 88.24, 89.55,

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Table 5.2. Population Variable

90.84, and 92.11 respectively.

Population Variable	<b>2014</b> Brai	wija <b>2015</b> Jniv	ersitas Brawijaya
Number of Population	versitas Bra	wijaya Univ	ersitas Brawijaya
Maleitas Brawijaya Uni	4.035.989	4.092.177	ersitas Brawijaya
Female Brawijaya Uni	3.905.506	3.960.138	ersitas Brawijaya
Totaltas Brawijaya Uni	7.941.495	8.052.315	ersitas Brawijaya
Growths Brawijaya Uni	versit1,48%	wijaya1,40%	ersitas Brawijaya
Sex Ratio rawijaya Uni	versitas1,03	wijaya 1,03v	ersitas Brawijaya
Density Brawijaya Uni	versit90,84	wijaya92,11v	ersitas Brawijaya
Age Composition	versitas Bra	wijaya Univ	ersitas Brawijaya
0er14as Brawijaya Uni	2.325.385	2.357.832	ersitas Brawijaya
15 59s Brawijaya Uni	5.093.690	5.164.770	ersitas Brawijaya
>64itas Brawijaya Uni	522.420		ersitas Brawijaya

Source: South Sumatera in Figures 2015-2016 Versitas Brawilava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya In 2015, the number of labour force of South Sumatera was 3,934,787 people. Generally, the growth of labour force in 2014 showed an increase. While for the unemployment rate Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya of South Sumatera in 2015 reached 6.07%. This figure was Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unobtained by defining unemployment as people who are java looking for a job, starting a new business, unable to get a job or who already having a job but still not starting yet.

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In 2015, the population in Village of Umo Jati reached 2,449 with population growth rate reached 3,73% comparing previous research, which consists of 1,211 men and 1,238 women with a sex ratio figure show 97.79%. Population density was 152.43 people/km<sup>2</sup>.

Village of Pengentaan has lower population than Umo Jati recorded for 537 people in 2015. Its population consists of 271 men and 266 women with a sex ratio figure of 101.88%. Population density reached 134.59 people/km<sup>2</sup>.

#### 5.1.2.2. Social Economic

Number of poor people in 2010 is 1,105 thousand people and awijaya Universitas Brawijaya (14.80%) then decreased to 1,043.62 thousand people ava-U (13.48%) in 2012. The number of poor people has started to jaya increase until it reached 1,112,53 thousand people (13.77%) in 2015. In general, the percentage of poor people in 2010 to 2015 has decreased up to 13.95% percent in spite of increase trend of the number of poor people.

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awijaya awijaya awijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Most of the people in South Sumatera work in the agricultural sector. In 2015, there were 2,023,064 people working in agricultural sector or 54.47% of total people in productive age. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya This figure is higher than 2014 in which there were only lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Un1,970,717 people or 53.37% of people in productive age. The payar higher percentage can be seen in Lahat District and Empat 63.71% and 69.88% Lawang District accounting for respectively. Even in sub district of Lintang Kanan, locus of this research, this percentage reached 94.28%. This indicates how much the community relies heavily on the agricultural sector that can affect the high pressure on preserved forest area. High pressure on preserved forest area is one of causes of deforestation and also one of reasons of the need on collaboration between government and local community in forest management.

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Table 5.3. Number of People Working in Agricultural Sector

Region	40	Number	er of Farmer Universitas	
48.11	li.	2014	rjaya U	2015
	Number	% From Productive Age	Number vijaya	% From Productive Age
Verbitte	maya Un	iversitas Bray	vijaya U	niversitas Bra
South Sumatera	1.970.717	iver53,37%Brav	2.023.064	nive <b>54,74%</b> Bra
Lahatitas Brav	117.709	iver63,71%Brav	vijaya U	niversitas Bra
Empat Lawang	vija75.579	iver69,88%Brav	87.220	nive <b>75,57</b> % Bra
Mulak Ulu Bray	13.461	77,41% Brav	vijay <u>a</u> U	niversitas Bra
Lintang Kanan	8.467	88,24%	13.902	94,28%
Pengentaan	vijaya Un	iversitas Brav	vijaya U	niversitas Bra
Umo Jati	1.131	95,69%	1.138	94,13%

Source: Elaboration from some sources

# Universities 5.1.3. Government Administration

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Province of South Sumatera consist of 13 districts and 4 cities.

District of Ogan Komering Ilir is District with the largest area while

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Universitas Braw Palembang and Lubuk Linggau are the smallest area accounting for Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

17,086.39 km2 or 19.54% and 363.68 km2 or 0.42% respectively.

Universitian Braw District of Lahat and District of Empat Lawang, the research location, layer

are the eight and the twelfth largest area. However, in term of

Universitias Braw conservation, both Lahat and Empat Lawang play important role to

ensure the stability of ecosystem considering both districts are located

in upstream area.

Table 5.4. Data of District in South Sumatera Province niversitas Brawijaya

No	District / City	Capital	Total A	rea	Admini	stration
2	\$ / (F)		Area (Km2)	%	Sub District	Village tas Br
5	1 Bayuasin	Pangkalan Balai	12.361,43	14,14%	ni19:rs	ta3043 ra
	2 Empat Lawang	Tebing Tinggi	2.312,20	2,64%	ni10ers	ta1563ra
	3 Lahat	Lahat	4.297,12	4,92%	ni22:rs	ta3783
	4 Muara Enim	Muara Enim	6.901,36	7,89%	ni20:rs	ta2553ra
	5 Musi Bayuasin	Sekayu	14.530,36	16,62%	Jni <b>1</b> 4ers	ta2403ra
	6 Musi Rawas	Muara Beliti Baru	6.330,53	7,24%	Jni <u>1</u> 4:rs	ta 199 ra
	7 Musi Rawas Utara	Rupit	5.836,70	6,68%	Jnivers	ta 893 ra
	8 Ogan ilir	Inderalaya	2.411,24	2,76%	Jni <u>1</u> 6rs	238
	9 Ogan Komering Ilir	Kayuagung	17.086,39	19,54%	Jni <sub>18</sub> :rs	327
1	O Ogan Komering Ulu	Baturaja	3.747,77	4,29%	Jni <sub>12</sub> rs	ta <sub>157</sub>
1	1 Ogan Komering Ulu Selatan	Muara Dua	4.544,18	5,20%	Jni <sub>20</sub> ers	312
1	2 Ogan Komering Ulu Timur	Martapura	3.397,10	3,89%	19	259
1	Panukal Abab Lematang Ilir	Talang Ubi	1.844,71	2,11%	Jillyers	71
vijay	4 Lubuklinggau	Lubuk Linggau	365,49	0,42%	8	72
vijay	5 Pagar Alam	Pagar Alam	632,80	0,72%	Julyers Julyers	35
wijay	6 Palembang	Palembang	363,68	0,42%	16	107
Wijay	7 Prabumulih	Prabumulih	458,11	0,52%	1 6 rs	37
/ilas	SOUTH SUMATERA	PALEMBANG	87.421,17	100%	231	3236

Universitas Braw Source: South Sumatera in Figure 2016 Brawijaya

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In general, civil servants working within the government of

Sumatera Selatan Province can be grouped into three major groups of

Universitas Braw working units comprising of regional secretariat, the local departments lava

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Universitas Brawijava services and boards, inspectorate, and agencies. Based on educational background, there are 4,870 employees with bachelor Universitas Braw degree (include diploma and postgraduate program), 1,982 employees Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw graduated from senior high school, and 314 employees graduated from Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijunior high school and downward ersitas Brawijaya Universitas Brawijaya

Table 5.5. Civil Servants Based on Education Classification

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aya EDUCATIONAL CLASSIFICATION Sita	MALE	FEMALE
Diploma, Bachelor, Master and Doctoral	2.618	2.252
Senior High School	1.290	692
Junior High School and Downward	279	35
TOTAL AS RS	4.187	2.979

Source: South Sumatera in Figure 2016

#### 5.1.4. State Forest Area

State forest area is a specific territory of forest ecosystem determined and or decided by the government as a permanent forest. Such decision is important to maintain the size of forest area and to ensure its legitimation and boundary demarcation of permanent forest. Appointment of forest area in South Sumatera Province was done through Regulation of Forestry Ministry number 866/Menhut-II/2014 regarding the appointment of forest area and water area in South Sumatera Province.

Total State forest area in South Sumatera is 3,418,289.03 Universitas Braw hectares (Forest Agency of South Sumatera, 2016). It can be classified Universitas Braw into some type based on its function, namely nature reserve area / KSA Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braw (including wildlife reserve), natural protection area / KPA (including lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawinational park, forest park, and nature park), preserved forest area / HL, ijaya Universitas Braw limited-production forest area / HPT, production forest area / HP, and lava convertible production forest / HPK. Production forest is largest type

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitias Braw with a total area of 1,713,530.64 hectares or 50.13% from total area awijaya awijaya while preserved forest area is only 577,326.90 hectares or 16.89% awijaya awijaya Universitas Braw from total area. There was no change in total area of state forest in last Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw five years considering change in forest area have to be approved lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawilegally by Ministry of Environment and Forestry.ava awijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Unive awijaya Universitas Brawijaya universitas Brawijaya awijaya awijaya awijaya awijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya awijaya

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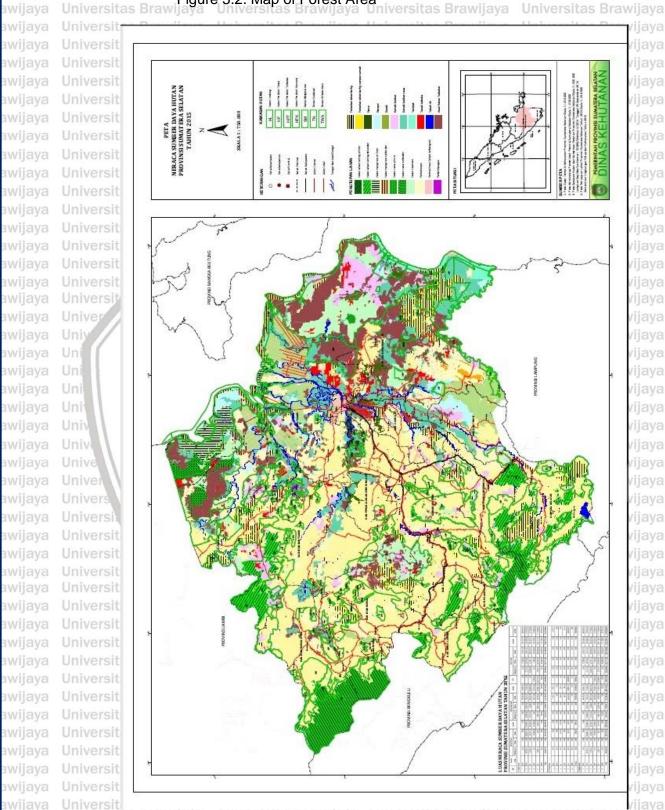
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Universitas Brawljaya Figure 5.2. Map of Forest Area



Universitas Braw Source: Forestry Agency of South Sumatera Wijaya

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Despite the status of forest areas, the land cover in most of the forest area is dominated by non-forest area with a total area of Universitas Braw 2,222,364,12 hectares or 65.01% from total area. Land cover in Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braw preserved forest area is also dominated by non-forest with percentage lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw 50.83% while primary forest is only about 16.27% from total area. It have can be concluded that forest area in South Sumatera is in poor

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Table 5.6. State Forest Area in South Sumatera

No	Forest Function	Primary Forest	Secondary Forest	Industrial Plantation Forest	aNon ForestU iiaya U va U	nive <b>Tota</b> las B niversitas B niversitas B	rawijaya rawijaya rawijaya
1	KSA	450	64.443,75	·// -	205.096,35	269.540,10	rawijaya
2	KPA	279.400,76	72.163,48		120.909,38	472.473,62	rawijaya
3	HL	93.953,19	189.912,69	L. D	293.461,02	577.326,90	rawijaya
4	HPT	10.798,49	59.649,34	14.004,64	129.451,52	213.903,99	rawijaya
5	HP N	4.611,04	81.841,24	324.889,14	1.302.189,22	1.713.530,64	rawijaya
6	HPK	EI.	132,50	124,65	171.256,63	171.513,78	rawijava
ΤO	TAL	388.763,48	468.143,00	339.018,43	2.222.364,12	3.418.289,03	rawijaya
%		11,37%	13,70%	9,92%	65,01%	niversites D	vowilovo

Source: Forestry Agency of South Sumatera, 2016

Similar with other province, South Sumatera also faces ava deforestation in a big number. Average of deforestation rate in period 2009 to 2015 is 35,921.93 hectares. Deforestation contributed largely to production forest area that are intended to produce timber. Preserved forest area performed well in term of Universitas Braw deforestation in which there is a significant increase of forested areas lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw in 2013 even though large deforestation re-occurred in 2014. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw Deforestation rate in preserved forest area was caused mainly by layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawlencroachment activities for community plantation and also forest fire./ilava

Universitias Braw But the rate of deforestation was also offset by forest and land

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rehabilitation activities undertaken by both governments in collaboration with local communities.

Universitas Braw Table 5.7. Deforestation Rate in South Sumatera

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Universitas Brawi	jay	a Univers	itas Brav	vijaya	Universitas Brawijaya			Universitas Brawijaya		vijaya
Universitas Brawi	ay	Type of Forest	itas Brav	vijaya	Univer <b>b</b> e	eforestation	Rateaya	Universi	tas Brav	vijaya
Universitas Brawi	ay	a Univers	ita <b>2015</b> rav	V 2014	Jr2013rs	2011-2012	2009-2010	UITOTAL'S	Average a	vijaya
Universitas Brawi	<b>a</b> y	KSA-KPA vers	1.147,23	1.312,80	2.261,70	ta 597,70	2.013,10	7.332,53	1.466,51	vijaya
Universitas Brawi	2	HL Univers	9,28	2.113,00	-9.302,80	800,40	4.826,90	- 1.553,22	- 310,64	viiava
Universitas Brawi	3	HPTIInivers	73,11	132,30	3.469,70	974,90	449,80	5.099,81	1.019,96	viiava
Universites Brawi	4	HP	138.415,07	- 704,70	5.011,10	14.640,00	10.105,20	167.466,67	33.493,33	vijava
Universitas Drawi	5	HPK	819,47	daya	110,60	230,60	103,20	1.263,87	252,77	vijaya
Universitas Brawi	dy	TOTAL	140.464,16	2.853,40	1.550,30	17.243,60	17.498,20	179.609,66	35.921,93	vijaya
Universitas Brawi	ay	3			15	itas Bra	wijaya	Universi	tas Bray	vijaya

Source: Statistic of Ministry of Environmental and Forestry 2011-2016

One of indicator that can be used to be controller in forest management in term of sustainable forest management is balance of forest resources. From the results of the preparation of forest resource balance from year to year can be seen the decreased potential of forest resource. It can be resulted by land conversion from forested-area to non-forest area in which caused by forest encroachment, illegal ava logging, forest fire, and also company logging activity. In 2015, there was a decrease in the forested-area accounting for 139,636.63 hectares or 4.11% comparing to 2014. Balance of forest resources in 2015 also noted that there was a decrease in timber potential recorded Universitas Braw for 14,000,000 m<sup>3</sup> comparing to 2014 especially in production forest Universitas Braw area. In addition, there was also a decrease of timber value in 2015 Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braw comparing 2014 noted for 9.3 trillion rupiah in which the value of all layers Universitas Brawitype timber in 2015 was 112.3 trillion rupiah. Besides timber forest lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braw products, the potential decrease also occurs in rattan which is one of the non-timber forest products. There was decline of rattan potential recorded for 2,937.20 ton in 2015 comparing to 2014 with a total loss

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Universitas Braw value of 2,581.05 million rupiah. From these figures Universitas Braw concluded that forest area in South Sumatera Universitas Brawijaya Universitias Braw unsustainably. Balance of forest resources can be seen in table 5.5. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas BrawiTable 5.8. Balance of Forest Resources Brawijaya Universitas Brawijaya

No.	Parameter of Forest ava	Universitas BrawPeriod Universitas					
ijaya	U Resources Balance Java	Ur2012rsit	as <b>[2013</b> vija	ya <b>2014</b> ive	sita 2015 rav		
jaya	Forested Area (Hectares) jaya	722.398,25	750.827,52	946.401,75	807.161,43		
<b>2</b> 1ya	Timber Potential (x 1000 m3)	162.647,68	165.838,64	183.766,00	169.765,00		
<b>3</b> 1ya	Timber Value (x Billions Rp.)	107.591,44	109.702,26	121.559,00	112.300,00		
<b>4</b> 1/3	Rattan Potential (Ton)	121.524,64	120.588,75	115.392,74	112.455,54		
5	Rattan Value (x millions Rp.)	106.789,78	105.967,37	101.401,39	98.820,34		

Source: Forestry Agency of South Sumatera, 2013-2016 Persitas Brawijaya

#### 5.1.5. Preserved Forest Governing Body

Preserved forest area is managed dominantly by the state through regional forestry agency. The authority of preserved forest management has been returned to the provincial government based on law number 23/2014 regarding local government since 2017. Preserved forest will be managed by Unit of Preserved Forest Management as translation to Kesatuan Pengelolaan Hutan Lindung (KPHL). KPHL has several duties and functions according to regulation number P.6/Menhut-II/2010 regarding norms, standards, procedures Universities Brawland criteria of forest management on Preserved Forest Management liava Universitas Brawi Unit (KPH) namely rawijaya Universitas Brawijaya Universitas Brawijaya

- a. Carrying out forest management covering: forest governance and Universitas Brawijaya forest rehabilitation and reclamation, forest protecting and nature Universitas Brawijava Universitas Brawijaya Universitas Brawijaya
- Universitas Braw b. Describing forest policy in all level to be implemented; ersitas Brawllava

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- Universitas Brawie. Opening investment opportunities to support the achievement of jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

There are 13 KPHLs managing 577.326,90 hectares of preserved forest area spread over 17 districts. But until now, KPHL has not functioned because of unfinished legal umbrella for its formation at the regional level.

Dingin as the representation of SBFM. Preserved forest area of Bukit

Dingin is located in the working area of KPH Kikim Pasemah covering

District of Lahat and District of Empat Lawang. As mentioned before,

KPH Kikim Pasemah is still not active yet considering unfinished law

umbrella. In this research, interview was conducted to former

employees of forestry agency of Empat Lawang Regional Government

who manage preserved forest area of Bukit Dingin in period from 2009

to 2016. This was done with consideration of the similarity of duties and

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functions between KPHL and Forestry Agency.

Bukit Dingin has been managed by Forestry Agency of Empat

Lawang Regional Government for 8 years before the implementation

of law number 23/2014. Forestry agency of Empat Lawang consisted

of 3 sections of work namely section of forest protection and utilization,

section of forest product circulation, and section of land and forest

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awijaya awijaya rehabilitation. Forestry agency was also supported by technical unit in each sub-district as well as forestry consular and the forest security Universitas Braw working group. There are several of main tasks and functions of Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Braw Forestry Agency according to local regulation of Empat Lawang layer Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawinumber 17/2011 namely: aya Universitas Brawijaya

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- Universities Braw a. Organizing forest protection and utilization;
  - b. Organizing rehabilitation of forest and land;
  - c. Organizing supervision of forest product circulation;
  - d. Organizing permissions in forestry field;
  - e. Formulating plan of forest area development;
  - Formulating micro plan of forestry;
  - g. Organizing statistic of forestry;

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- h. Formulating technical guidance and inventorying facilities in forestry section;
- i. Conducting supervision, monitoring, development, and evaluation on business and institutions in forestry sector;
- Facilitating settlement of disputes between forestry entrepreneurs and the community;
- Universitas Brawk. Implementing forest product management both timber and non-ijaya University Universitas Brawijaytimberversitas Brawijaya Universitas Brawijaya

In general, forestry is a section of agency of Forestry,

Plantation, Mining, and Energy. Forestry section was headed by a section head and was assisted by three sub-section heads in charge of each technical problem. In addition, there was a technical unit of Universitas Braw forest ranger that was in similar level with sub-section and was headed Jaya

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awijaya awijaya by a technical unit head. All activities in the forestry section were funded by a combination of central budgets and local budgets managed independently by the forestry section from the planning, implementation, and accountability process. However, lack of human resources is a big obstacle. Total employee in forestry section was 12 (twelve) persons who must manage 88,766.84 hectares with supervising area ratio 7,397.23 hectares/employee. Organization structure of Forestry Agency can be seen in picture 5.3.

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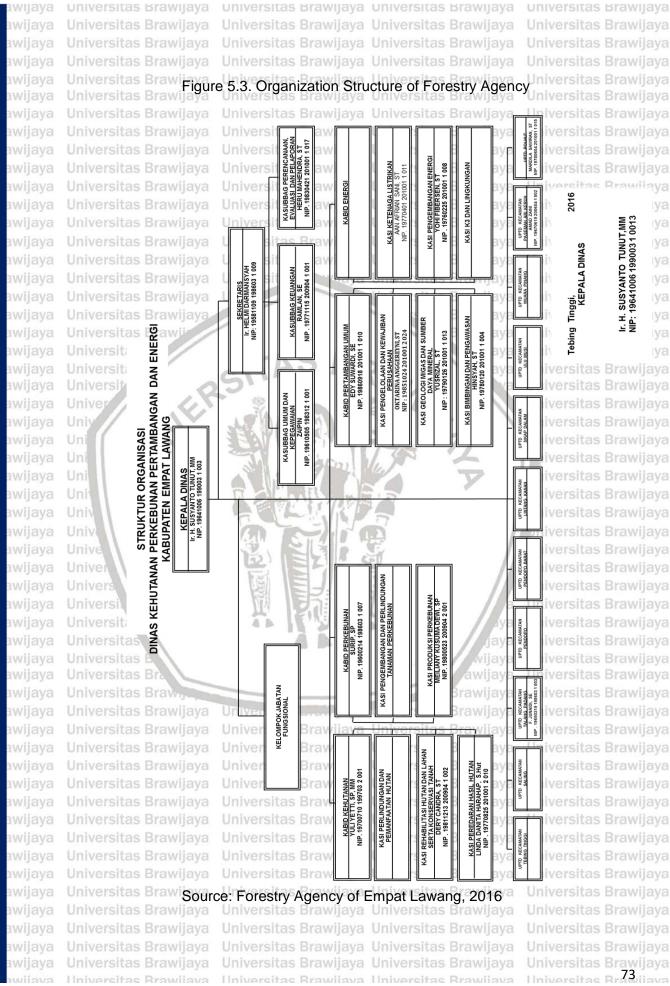
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Meanwhile, a small portion of preserved forest area is managed by local community through community-based forest management scheme as translation for Hutan Kemasyarakatan (HKm). CBFM is run under the regulation of Environmental and Forestry Ministry Number P.83/MENLHK/SETJEN/KUM.1/10/2016 regarding Social Forestry. Forest farmer group as translation for Kelompok Tani Hutan (KTH) act as governing body in area of CBFM. KTH runs all of management functions namely planning, policy implementation, and also supervision. However, KTH is obliged to give annual report to government as part of monitoring and evaluation of forest management permit.

CBFM of Pengentaan located in preserved area of Bukit Patah is governed by KTH "Bersama" based on Forestry Minister Permit number 540/Menhut-II/2013 and also Lahat Mayor Permit number 522/08/KEP/DISHUTBUN/2015. The total area of work permit of CBFM of Pengentaan is 474 hectares. Work permit area of CBFM of Pengentaan can be seen in picture 5.5. KTH "Bersama" consists of 156

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        Universitas Braw (one hundred and fifty-six) forest peasants divided into 4 (four) working
                         groups by location. The member of KTH "Bersama" mostly come from
        Universitas Braw 4 villages namely Pengentaan, Datar Balam, Padang Masat, and Java
        Universitas Brawijaya
                               Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
        Universities Braw Penindayan, KTH "Mandiri" is currently chaired by Mr. Sanit, less Brawilaya
        Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya
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        Universitas Brawijava UGoverning body of CBFM of Pengentaan is given some rights ilava
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        namely: to utilize forest area, to utilize environmental services, and to
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                         utilize non-timber forest products. In contrary, there are also some
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                         things that are forbidden namely changing the forest function, selling
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                         permit area, and using the permit outside the management plan. There
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                         are some obligations required in management permit of CBFM of
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                         Pengentaan namely:
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                                                                              niversitas Brawijaya
                         a. Implementing border setup of work permit;
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                         b. Formulating work plan of forest management for 35 years; as Brawijaya
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                         c. Implementing forest protection;
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                         d. Implementing rehabilitation in work area of CBFM;
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                         e. Implementing wooden plant enrichment;
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                         f. Managing work permit area in accordance with forest sustainable
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                            principles.
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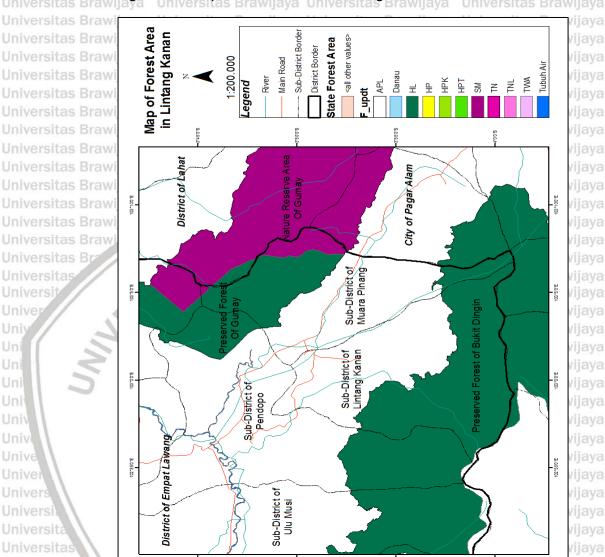
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Universitas Braw Figure 5.4. Map of Forest Area in Lintang Kanan



Universitas Braw Source: GIS Analysis by Researcher

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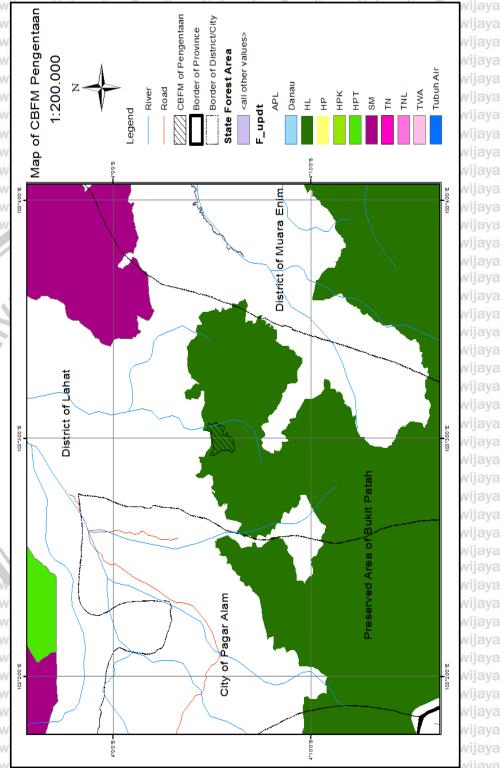
Universitas Braw Figure 5.5. Work Permit Area of CBFM of Pengentaan

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Universitas Braw Source: GIS analysis by Researcher (as Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Rrawilava Universitas Rrawilava Universitas Rrawilava



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Universitas Braw Data description is a part to explain research that has been processed Universities from raw data by using technique of data analysis both qualitative and lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias quantitative. Researcher in this stage will conduct data analysis based on the liava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias result i of a interview i conducted aby researcher to [12] (twelve) research [[aya informants consists of government officer, forestry entrepreneur, forest farmer, and member of KTH using collecting technique of purposive sample. Governance analysis of research using Lockwood method in which analyzing the implementation of good protected area governance namely legitimacy, transparency, accountability, inclusiveness, fairness, connectivity, resilience and adaptability. In addition, GIS analysis of land cover change was iversitas Brawijaya undertaken to demonstrate deforestation in order to see the relationship layer between good governance and forest sustainability.

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This research is qualitative approach. So that, process of data analysing conducted analysis simultaneously. As mentioned before in previous chapter, data analysis uses interactive model proposed by Miles and Huberman. To simplify in data analysis, researcher uses code to Universities particular aspects. These codes were determined based on similar answer layer Universities and related to research problem.

Universitas Table 5.9. Research Code wijaya Universitas Brawijaya

Universitas	Brawijava	Universitas Brawijava Universitas B	3rawijaya
Universitas	Br Code ya	UniversitaExplanation Universitas E	3rawijaya
Universitas	<b>B</b> 1awijaya	Informant from government officer	3rawijaya
Universitas		Informant from entrepreneur ersites	
Universitas	Rawijaya	Informant from community	Brawijaya
Universitas		Universitas Brawijaya Universitas E	3rawijaya

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Universitas Source: Researcher Brawijaya Universitas Brawijaya Universitas Brawijaya



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Based on table above, it can be seen several codes that consists of question and research informant. Informant codes of this research can be Universities divided into three parts in which informant code I<sub>1-1</sub>, I<sub>1-2</sub>, I<sub>1-3</sub>, I<sub>1-...</sub> is informant Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas code for government officer,  $V_{12-1}$ ,  $V_{12-2}$ ,  $V_{12-3}$ , Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas entrepreneur, and informant code [3-1, -13-2, -13-3, -13-1] is informant code for jaya community. Informant code is aimed to simplify data analysing and to ease versitas Brawijaya reader in exploring information from this research.

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#### **Data of Research Informants**

Data of research informants describes informant description that is one of main source in this research. Informant description consists of name, age, job/position, and domicile. The description of research informant can be describe role of each informants in the implementation of good protected area governance in preserved forest area. Selection of informants in this research used purposive technique. It was undertaken to get informants who were appropriate and credible. There were 12 (twelve) informants that consist of 5 (five) informants from government officer, 1 (one) informant from forestry entrepreneur, and 6 (six) informants from community. Informant Universities description can be seen in table 5.10 below.

Universitas Table 5.10. Informant Description

No.	Name Universitas	Age	Domicile reits	Position Java Univers
1	Saibi	56	Tebing Tinggi	Ex Forestry Section Head
<u>1</u> 2ra\	Linda Danita Harahap	39	Tebing Tinggi	Ex Sub Section Head
3ra	Dedi Harianto	Bra36 ia	Tebing Tinggi	S Forestry Conselor
4	Surip	56	Lintang Kanan	Forest Farmer
5	Suyan	61	Ulu Musi	Forestry Entrepreneur
6'a\	Safrin Universitas	Bra40 Ja	Lintang Kanan	Head of Forest Farmer
7ra	Yenia Universitas	Bra40ija	Tebing Tinggi	Staff of Regional Planning
8	Sanit	30	Pengentaan	Head of KTH "Bersama"
9 d	Radius Prawiro	35	Pengentaan	Forest Farmer
10	Pausi Universitas	Bra60ija	Pengentaan	S Braforest Farmer Vers
11	Ruslan	60	Pengentaan	Local community
12	Hendra Audi	36	Lahat	Ex Forestry Official



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#### **Analysis of Good Governance Assessment Data**

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Analysis of research data is exposure of research result obtained by interviewing 12 (twelve) informants representing and providing data of the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities implementation of good governance principles in preserved forest area in layer Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas order to achieve forest sustainability.niversitas Brawijaya Universitas Brawijaya

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Data obtained from this research was analysed through Lockwood method which consists of 7 (seven) principles namely legitimacy, accountability, transparency. inclusiveness. fairness, connectivity resilience adaptability. The implementation of good governance principles was described separately between CBFM and SBFM and then to be compared in order to determine which type of governance is better in managing preserved forest areas. Data analysis was done by exposing the research result from available each indicator on Lockwood method and its 30 outcomes that can be seen in p. 39. Interview transcripts, together with relevant documentary evidence, were used to make judgements about the performance of the governing bodies against each outcome. In presenting these judgements, efficiency of presentation led to some outcomes being combined. From the evidence a layer Universitias summative judgement for each outcome was made according the following layer awijaya Universitas Brawijaya Universitas qualitative scale: "very low", "low", "moderate", "high", "very high". These liava Universitas Brawijaya Universitas Practical Universitas judgements followed decision-rules: niversitas Brawijaya Universitas Brawijaya

- Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities a. Very high, applied without note; Iniversities Brawijava
- b. High, applied with minor note in which the existing note can be ignored and only to provide more value;
- Moderate, applied with major note in which the existing note aims to Universitas Braimprove performance; awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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d. Low, applied with substantial note in which the existing note contains about things that are very disruptive to performance and must be Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas e.ra Very Low, not applied awijaya Universitas Brawijaya

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Universitiangly These judgements were then aggregated for each principles according to the illavar Universitas following decision-rules: Brawijaya Universitas Brawijaya

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- One or more "very low" or "low" outcomes = "substantial improvement Universitas Brawdesirable";
- Universitas g. Two or more "moderate" outcomes = "improvement desirable"; sitas Brawijaya
  - h. One moderate outcome with the remaining "high" or "very high" = "high" level of performance with potential for improvements"; and versitas Brawilaya
  - i. One "high" outcome with the remaining being "very high" = "exemplary with liava opportunities to further advance "cutting-edge" good governance". Brawijaya

Here is an analysis of research data on the evaluation of good governance principles in the management of protected areas in South Sumatera.

#### 5.4.1. Legitimacy

Legitimacy is the acceptance and justification of shared rule by a jaya community. The question of legitimacy concerns who is entitled to lave awijaya Universitas Brawijaya Universitias Braw, make rules and how authority itself is generated. Legitimacy is layer University Universitias Brawii therefore a key factor in the ethical acceptability of governance lava Universities Brawn arrangements. Principle of legitimacy have 6 (six) outcomes than can

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Overall achievement: High level of performance Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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a. First outcomes: The governing body is conferred with a or democratically man mandated

Universidations Achievement: High. Evidence: Regulations and interview Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universiresultsawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Univers Conferred democratic legitimacy is established mainly java through law number 44/1999 regarding forestry. In addition, there are some regulation regarding the authority of regional government to manage preserved forest areas namely:

- conservation of Law number 5/1990 regarding natural resources and its ecosystem. niversitas Brawijaya
- 2. number 23/2014 regarding si regional jaya government. In this regulation, there is sthe laya distribution of coherent matters between the central government and local governments. In forestry sector, regional government are authorized in forest management, conservation of natural reserves and its ecosystem, community training and education, lava awijaya and watershed management, aya Universitas Brawijaya
- Univers 3. Presidential Decree number 32/1990 regarding lava Protected Area Management. This regulation ava describes the protected area as the whole covering definition, form of protected area, the way Universities management, and also the management aims. Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya 4. Regulation of Forestry Ministry Number P.6/Menhut-Universities II/2010 regarding norms, standards, procedures and Universities criteria of forest management on Preserved Forest Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Management Unit (KPH), rawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universin these regulation, regional government is given large ijaya authority in preserved forest management. However,

such authority is deemed insufficient to achieve the objective of preserved forest management especially in permissions affairs.

"Forestry agency was not given the authority fully. For example, in permissions affairs, regional government was only in stage of issuing recommendation. To be honest, it makes the process long and costly. Central government have to consider this. (I1-3)" iversitas Brawijaya

"Central government should submit the licensing avaauthority to the smallest forest management unit. It is necessary to speed up service to the stakeholders. (I1-1)"

In spite of un-full authority, the authority of forestry agency is regarded powerful enough especially in forest protecting and also forest rehabilitation that are main objective of forest management in Empat Lawang. Brawijaya

"Forestry agency has never had any significant problems in implementing forest protection and also forest rehabilitation which until now is still the main focus in lava Univers Empat Lawang District. (I1-1)"awijaya Universitas Brawijaya

b. Second outcomes: Stakeholders freely accept the governing body's authority. Achievement: Moderate.

Local communities surrounding forest including forest and also forestry entrepreneurs univers stakeholders directly related to preserved forest area Universitas Brawijaya Universitas Brawijaya Universimanagement. In general, stakeholders can accept the

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authority of forestry agency in preserved forest management even by forest encroachers.

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However, economic pressures and land requirements are a major boost for communities to continue illegal activities in preserved forest areas. In addition, the unclear boundaries of forest area also cause confused local communities to establish where the exact location of preserved areas. There is often conflict between forestry officer and community and also with forestry entrepreneur due to this boundary problem. After the socialization and reconstruction of boundaries of the forest area, the community can finally accept that the location of the dispute is part of the preserved forest area.

"We opened the forest area to be coffee plantation due to economic factors and no other options for us. We are aware that this is a preserved forest area. And if the forestry officers take action someday, we will accept it sincerely. Because it is indeed their authority. Although we still hope to be allowed working in this area. (13-1)" will available "During my duty since 2009, people can accept every avatime I am on duty. I have never encountered a condition where people question my authority. However, it would be better if the boundaries of the area could be ava-Universimproved. This will make the community more accept lava the authority of the forestry service, especially for the loggers. Clear community of encroachers and boundaries will avoid unnecessary debate with the community. (I1-3)" Furthermore, governing body should be able to socialize

Turthermore, governing body should be able to socialize

more frequently with regard to the authority of forestry

agency especially in term of permission procedures.

Universi This is required by the business actor with regard to the



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Universi legality of his business. Because often they do not know to what extent the authority of forestry agency.

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Universi"In essence, we fully accept the authority of the forestry agency in supervising our business. But we hope that Universithey can more frequently socialize regulations relating lava Universito business permit and forest product administration. Java Universi(12-1)"awijaya Universitas Brawijaya Universitas Brawijaya

c. Third outcomes: The governing body acts in accordance with its mandate. Achievement: Very High

> A suite of regulatory and management instruments including the Act, management plan and performance reports to Government provide a solid framework of direction and control that ensure the governing authority acts in accordance with its mandate. There is no layer documentary or interview evidence to suggest that the Authority's plans and activities are in any way at variance with its designated powers and responsibilities.

Fourth outcomes: The governing body's powers and responsibilities enable management that is consistent with the IUCN definition of a protected area and the associated guidelines for protected area categories.

Source: Forestry act, Main Tasks and Function, Forestry Univers officials. Achievement: Very High. Evidence: Regulation related to protected area and Main Tasks and Functions of Forestry Agency.

clearly defined IUCN defines protected area as a dedicated, and geographical space, recognised, Universimanaged, through legal or other effective means

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awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya associated ecosystem services and While presidential decree number 32/1990 defines University protected area as an appointed area with the primary Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University of protecting the sustainability of environment lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University which includes natural resources, artificial resources and liava the historical and cultural value of the nation for the benefit of sustainable development. Protected area management is defined as efforts to establish, preserve and controlling the utilization of protected area. There are 2 (two) target of protected area management. First, to maintain biodiversity, ecosystem, and the uniqueness of nature. Second, to improve protection function of soil, water, climate, plants, animals, and also a nation value of history and culture. In this regulation, there is also description of preserved forest that is a part of protected area as a forest area that have unique characteristics in protecting surrounding area and lower area as a regulator of water system, preventing floods and erosion, level awijaya Universitas Brawijaya and maintaining soil fertility. The law number 41/1999 layar Universirefers to this definition for preserved forest area.as Brawijava Furthermore, law number 41/1999 explains that preserved forest area utilization is limited in the utilization of area, environmental services, and non-timber forest

products. This is clearly intended to prevent changes in form and function of preserved forest area. Main tasks



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Universand functions of forestry agency is referred to those regulation.

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So, in essence, the authority granted to forestry agency Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universipermits management that is consistent with the IUCN layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universidefinition | of all protected Parea and Lthe associated | ava guidelines for protected area categories.

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e. Fifth outcomes: The governing body has a long-standing cultural or spiritual attachment to some or all of the lands within the protected area. Achievement: Very High.

> managed by regional lava Preserved forest area is government. This causes most employees are local iversitas Brawijaya people who have attachment to local culture. This layer becomes a distinct advantage in understanding and addressing the local culture within the management policy of preserved forest area.

In addition, forestry agency also has some procedural in term of addressing the local culture. First, local communities can provide suggestions related policy awijaya Universitas Brawijaya through regional development planning meetings. Univers Second, filtering aspirations through PRA mechanism in ijaya which forestry counsellor play a huge role. Third, utilizing local connections to provide input on preserved forest

"Often we also ask the traditional leaders for advice on Universithe policy implementation in their area. It is important that these activities do not conflict with local cultures that may Cause failure of policy implementation. While it does not

area management.

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conflict with the existing regulation, we will consider their advice as much as possible in the implementation of the policy. (I1-1)"

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"In forest community assistance activities, we recognize the PRA mechanism in which we seek to collect all information relating to the conditions of the local Universicommunity. This is intended to provide as much detail as layar Univers possible for the preparation of the work plan. (11-3)"Brawijaya Uninfars Sixth noutcomes: Governors act with lintegrity Eand Jaya

Linivers commitment. Achievement: Moderate

Article 58 of law number 23/2014 states that the regional government in governing their regional is guided by the principle of organizing the state government consisting of legal certainty, orderly state administration, public interest, transparency, proportionality, professionalism, accountability, efficiency, effectiveness, and fairness. As a part of regional government, forestry agency has to refer to these principles in carrying out the conduct of forestry affairs. So, it is expected to ensure the integrity of governing body in preserved forest area.

However, the implementation of this regulation is still questioned. There are still many conflict of interest awijaya Universitas Brawijaya occurring in the management of preserved forest areas.

Univers There are many examples of case related to it. First, if it is a there is a violation in the administration of the circulating of forest products involving police officer or soldier, usually the process will not proceed to the investigation process. In the administration of forest University circulation, there is also the simplification of the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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requirements that should be met by reason of proximity to the applicant. Second, the appointment of farmer Universignoups that carry out rehabilitation activities is often lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universundertaken without established mechanism. This is to lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universaccommodate the interests of relations or family. s Brawijava

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"We often have difficulty in handling cases of violations involving authorities. In addition, sometimes there are also families of who underestimate the procedure. To be honest we are sometimes difficult to resist. (11-2)" The forestry officials clearly have a strong commitment

to work, but for integrity is still highly questionable.

#### 5.4.1.2. In CBFM

In general, overall achievement is high with potential for an average and achievement is high with potential for a second achievement is a second achievement and a second achievement is a second achievement and a second achievement ac iversitas Brawijaya improvement.

First outcomes: The governing body is conferred with a legal democratically mandated authority. Achievement: Very High. Source: Forest Management Permit, Regulation, and Interview result.

There is one regulation regarding community-based forest management namely Regulation of Environmental wijaya Universitas Brawijaya BraMinistry Universi Number i aya Forestry

Univers P.83/MENLHK/SETJEN/KUM.1/10/2016 inversegarding lava

Social Forestry that is change and also simplification of Universitas Brawijaya Universitas Brawijaya some previous regulations. In this regulation, all provisions relating to the management of CBFM covering the process of applying permits, rights and obligations,

and also removal permits. Moreover, CBFM is also Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya supported by regional government through issuance of regent/mayor/governor's decree regarding the granting of forest area management permit. In term of CBFM of Universitas Brawijava Universitas Brawijava Universitas Brawijava University Pengentaan, it is granted management permit through lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univer Forestry Minister Permit number 540/Menhut-II/2013 and also Decree of Lahat Regent number 522/08/KEP/DISHUTBUN/2015. Thus, CBFM has legitimacy that is strong legally.

> It is also admitted by governing body of CBFM of Pengentaan. After the issuing of permits for forest area management, forest farmer feels much calmer in their activities in preserved forest area.

> "With the issuing of management permit we feel much calmer without any feeling of fear anymore because now we are given the authority to manage this area (I3-3)". These regulations are considered sufficient to support

CBFM in achieving sustainable forest management.

b. Second outcomes: Stakeholders freely accept the governing body's authority. Achievement: Very High.

Evidence: Interview

In CBFM of Pengentaan, stakeholders involved are not jaya as much as in SBFM namely government official and local community. Government officials clearly recognize the authority given to CBFM of Pengentaan considering that the authority is given by government therefore it is strong enough in terms of legality and legitimacy. Local Universionmunities, even though who are not member of KTH, Java

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also recognize the authority for preserved forest area management granted to KTH "Bersama".

"We recognize the authority given to KTH "Bersama". And we hope this will have a positive impact not only on Universithem but also for forest's sustainability (I3-6)".sitas Brawijaya

Unic. Third outcomes: The governing body acts in accordance lava

Univers with its mandate. Achievement: Very High. Versitas Brawijava

Similar with SBFM, the existing regulations are strong enough to ensure absence of abuse of authority. All of authority given to KTH "Bersama" as the governing body of CBFM of Pengentaan has been granted in detail so that matters beyond such provision can be categorized as an offense which may result in the revocation of management permit. Since the issuance of permits in lava 2013, there has been no evidence of abuse of authority committed by KTH "Bersama".

Fourth outcomes: The governing body's powers and responsibilities enable management that is consistent with the IUCN definition of a protected area and the associated guidelines for protected area categories.

Achievement: Very High. Evidence: Regulation related to lava

Univers CBFM, and Management Permit. ava

Regulations relating to CBFM are drawn up in accordance with Law No. 41/1999 and also Presidential

are in accordance with the definitions provided by IUCN. Java

Decree No. 32/1990. As mentioned earlier, these rules

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Universitas Brawijaya Universitas Brawijaya KTH "Bersama" is only permitted to utilize preserved forest area with a form of utilization which is considered Universing to change the shape and function of the forest area. Java

University and management that ignores the principles of lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univers sustainable viforest/management will be subject to jaya sanctions in the form of revocation of permits.

e. Fifth outcomes: The governing body has a long-standing cultural or spiritual attachment to some or all of the lands Achievement: Very High. within the protected area.

> CBFM of Pengentaan is managed by local community. It iversitas Brawijaya means that governing body has a long-standing cultural or spiritual attachment to preserved forest area. Forest management is also done based on the patterns and habits of local communities that have long existed.

However, patterns and habits that are not legitimized by rules should clearly be eliminated.

"There has not been much change in the way we work in lava preserved forest area as our forefathers have done. But now, we are gradually no longer burning land that we used to do to clear land. These include restrictions on Univers management permit (I3-3)". Brawijaya Universitas Brawijaya

f. Sixth outcomes: Governors act with integrity and available

commitment. Achievement: Low

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Evidence: Interview result.

also the As mentioned before, management permit has determined some provisions regarding forest management followed by clear Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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univers sanctions for every offense. It should be strong enough to ensure the integrity of governing body.

Unfortunately, the dominant conflict of interest is related Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University the forest rehabilitation. Member of KTH "Bersama" lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universiseem to refuse to plant wooden species for fear of killing ijaya their coffee plants. There is the impression that management permit is only used as a shield for the forest encroachment that they have done. Governing body failed to fulfil this matter. They give a large space for the

offense done by their member. This is also compounded

by the lack of supervision by the government.

"Many of our members do not run rehabilitation programs implemented in our permit areas. Even the distributed seedlings are not treated and even deliberately turned off for fear of killing their coffee plants. To be honest, we are difficult to overcome it (13-3)".

Therefore, the integrity of governing body can be

categorized in low level.

### Universitas 5.4.2. Transparency

Universitas BrawijaTransparency is a requirement, grounded in ethics, of stakeholders'ijava Universitas Brawii right to know about matters that affect them. In general, all decisions liava Universitas Brawii about protected areas should be accessible to stakeholders.

Transparency is required in who has made a decision, the means by

Which it has been reached, and its justification. Universitas Brawijay

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Universitas Brawijaya Universitas Brawijaya In general, overall achievement is high with potential for improvement.

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a. First outcomes: Governance and decision-making is Universities Brawijaya Universities Br

In general, forestry agency is open enough to the stakeholders regarding policies and information related preserved forest management. Stakeholders are given sufficient information by forestry agency. While data or information can be provided by forestry agency, it will be delivered to stakeholders. And if data/information cannot be provided, forestry agency will direct the stakeholders to the agency that owns data/information.

However, there is a fundamental weakness regarding providing data/information in forestry agency namely absence of official website to access data and information. This causes all parties who looking for data/information must come directly to the office.

"So far we always provide data/information relating to the management of the preserved forest area. However, applicants should come to our office because we do not have an official website. And if data/information requested is not available, usually the applicant will be suggested to the institution that has data/information (I1-1)".

Data/information provided by forestry agency are limited.

Limitation of funds are the main contributing factors to universities brawning the limitation of data/information. However, for

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya availability of data/information implementations of work program is quite complete. In Universithe last two years, the forest agency has sought to lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University provide spatial data on preserved forest area that are Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universivery useful not only for the preparation of work plans but ijaya also for policy formulating. "We admit that we have limited data/information. But, we have provided spatial data for forest areas since 2014 that is very useful for forest management (I1-1)". Formulating of preserved forest management plan prepared based on supporting data/information. Analysis of the areal condition generated through GIS analysis is the main basis in establishing management plans lava especially related to the forest rehabilitation plans. The site of rehabilitation programs will be determined on the basis of the critically of the land. In addition, the preparation of management plans is also aligned with the agenda of central and local government and also the results of community proposals through deliberations of regional development planning. It can prove that forest area management plan can be explained based on facts Universand supporting data. rsitas Brawijaya

> "There are several things that we consider in the preparation of work plan that is the result of technical analysis, alignment with central and local government programs, as well as the results of community proposals Universitas Brawijaya Universitas Brawijaya

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b. Second outcomes: Achievements and failures are evident. Achievement: Moderate. Evidence: Forestry Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universione tool that can be used to measure the achievement layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universor failure in the implementation of the policy is a report java on the implementation of activities. Forestry agency of Empat Lawang reports on the management of preserved forest area periodically in relation to the implementation of work programs especially in forest rehabilitation, forest protection, and forest product administration. Sitas Brawilaya

> "We have to prepare reports on forest product circulation every month. In addition, the implementation of activities funded by the state budget must also be reported avaperiodically. (I1-2)" Despite periodic reports, informants from the forestry clearly identify agency have not been able performance targets. Performance targets that can be displayed are performance targets based on budget.

While the performance targets listed in the strategic plan and work plan are not clearly understood. The awijaya Universitas Brawijaya measurement of the performance that should be ava-Univers measured based on the targets of the work plan is even ijava measured based on the targets stated in the activity and budget plan. This results in a biased performance appraisal. Performance targets that are not provided by the budget will be omitted in performance appraisal.

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya "Our performance targets are listed in our activity and budget plans and the measurement of our performance based on those targets. (I1-1)"

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c. Third outcome: Information is presented in forms appropriate to stakeholders' needs. Achievement: Very High. Evidence: Official report and interview.

In general, preserved forest management reports is prepared based on technical guidelines set forth in the rules. Each agency concerned with the report has its own report format. And often the forest agency reports in the different formats for the same activities. Therefore, management reports are easy to be understood by the stakeholders because it is reported in format requested.

"We report forest management partially based on guidelines determined by the rules or institution request (I1-1)"

#### 5.4.2.2. In CBFM

In general, overall achievement is very low with substantial improvement desirable.

a. First outcomes: Governance and decision-making is lave open to scrutiny by stakeholders, and the lave

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Basically, governing body of CBFM of Pengentaan is

very open with all the stakeholders coming. They are

willing to provide data/information to all parties to the

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University data/information is delivered verbally without any written document.

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University In addition, the management plan that should be a lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universiguideline has not yet been formulated. Whereas this one laya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University of the obligations that must be fulfilled in relation to the lava issuance of management permit. Lack of knowledge and assistance is a major contributing factor to this problem.

> "We have not a management plan yet to date. It will be discussed to member forum and also be communicated to our forestry counsellor (I3-3)"

Second outcomes: Achievements and failures are evident. Achievement: Very low. Evidence: Management report.

One of obligations regulated Regulation3 of liava Environmental and Forestry Ministry Number P.83/2016 is annual management report delivered to regional government and technical unit of environmental and forestry ministry. In case of CBFM of Pengentaan, governing body claimed to have not compiled a lava management report to date. This causes governing

body is not able to explain performance and failure of Universitheir forest management as Brawijaya Universitas Brawijaya

> "We have never compiled a management report yet. Our knowledge and administration skill is very limited. If we are assisted in preparing report, we will surely fulfil the obligation (13-3)"

Information is presented in forms Third outcome: Universit appropriate to stakeholders' needs. Achievement: Very rsitas Brawijaya Universitas Brawijaya

University Low. Evidence: Official report and interview. Prawilaya

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As mentioned before, there is no management reports that have ever been compiled by the governing body to UniversidateBrawijaya Universitas Brawijaya Universitas Brawijaya

## Universitas 5.4.3.jaAccountability Brawijaya Universitas Brawijaya

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Universitias Brawii Accountability can be defined as an instrumental condition for layer effective accountability and good protected area governance are that: first, the roles and responsibilities of governing bodies and their personnel are precisely identified; and second, governing bodies have demonstrated acceptance of these responsibilities, for example through their plans and activities.

## 5.4.3.1. In SBFM

In general, overall achievement is high with potential for lava improvement.

First outcome: The governing body and personnel have clearly defined roles and responsibilities, and have demonstrated acceptance of these responsibilities. Achievement: Moderate. Evidence: Document of Main Task and Function, Employee Performance Appraisal, Java awijaya Universitas Brawijaya and Interview Result.

Univers Forestry, agency is one of government institutions lava assigned to manage forest area. Personnel in the forestry agency are predominantly civil servants who competencies have certain that considered are appropriate to work in forestry sector. The roles and responsibilities of civil servants are embedded in their Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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awijaya awijaya universitas Brawijaya position and clearly described on the document of main tasks and functions that are legalized through Universigovernments regulations. In term of Forestry Agency of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univers Empat Lawang, it can be found in Regulation of Empat Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univers Lawang District Number 17/2011 on chapter 3 article 13- ijaya Universitas Brawijaya Universitas Brawijaya Every official of the forestry agency knows and understands their respective roles and responsibilities. This is triggered by the obligation to formulate the performance appraisal indicator which becomes the benchmark in their performance appraisal referring to the niversitas Brawijaya Government Regulation Number 46/2011. Versitas Brawijaya "Our roles and responsibilities have been clearly defined in the document of main task and function. Our performance appraisal also refers to it (I1-1)" Normatively, the implementation of personnel duties and responsibilities is measured through mechanism of employee performance target as translation to Sasaran Kinerja Pegawai (SKP) and implemented annually by vijaya Universitas Brawijaya supervisors. However, in the their respective implementation of SKP was not able to reflect the performance of employees. SKP tends to be a routine whose function is only to complete the personnel

administration where the assessment is often carried out
by personnel itself without reference to actual
performance achievement.

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"Our performance appraisal is measured through SKP mechanism. However, we must adjust the actual performance achievement to a predetermined minimum grade. And this assessment is done by ourselves while our supervisor just validates without doing further Universinspection (I1-2)" iversitas Brawijaya Universitas Brawijaya

b. The governing body is answerable to its constituency Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univers ('downward' accountability) and also has i'upward' ijaya accountability. Achievement: Very High. Evidence: Performance Report, Finance Report, and Interview Results.

Forestry Agency of Empat Lawang has a fairly clear mechanism in responding to questions or complaints relating to the management of preserved forest area. Every form of questions and complaints will first go the layar secretary of the agency and then be classified by type of affairs. Furthermore, secretariat of agency will dispose the questions/complaints to the relevant section or subsection. Responses to questions or complaints will be accompanied by supporting information in the form of regulations, technical data, or reports. This applies to awijaya Universitas Brawijaya applicants corresponding by mail or coming directly to leave Universithe office.jaya Universitas Brawijaya Universitas Brawijaya

"We are always willing to respond to all questions or complaints regarding forest management without exception. We have clear procedures regarding this (11-1)"

Forestry agency also has clear procedures related to performance and financial reporting to both vertical agencies and other agencies within the scope of local Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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government. That procedure refers to regulation related to performance and financial report namely Law Number

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23/2014, Government Regulation Number 8/2006, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

University Regulation of Empowerment of State Apparatus and Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Financial performance accountability is also always

audited by the financial auditing body (BPK) from pre-

implementation of work program to post-implementation.

"Our performance and finances are always reported in accordance with the rules. In addition, we are also always audited by BPK and Inspectorate on financial accountability (11-2)"

## 5.4.3.2. In CBFM

niversitas Brawijaya In general, overall achievements is low with substantial lava improvement desirable.

First outcome: The governing body and personnel have clearly defined roles and responsibilities, and have demonstrated acceptance of these responsibilities.

Achievement: Moderate. Evidence: The document of farmer group establishment and Interview Result. S Brawijaya awijaya Universitas Brawijaya

KTH "Bersama" as the governing body of CBFM of Univers Pengentaan is a simple institution with a simple lava organizational structure consisting chairman, secretary, treasurer, work unit and ordinary member. The roles and responsibilities are described the articles

association and bylaws. It is a very simple description of roles and responsibilities and less reflect forest area

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya management. Everyone who is a member of the group management has understood their respective duties and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universiour articles of association and bylaws. All members laya University Should understand that (I3-3)" awijaya University Brawijaya However, it is unfortunate that there is no performance measurement procedure of the implementation of these tasks responsibilities that performance measurement is also never done.

> "We do not know how to measure performance. So that, we have never done it until now (13-3)" Universitas Brawijaya

b. The governing body is answerable to its constituency ('downward' accountability) and also has 'upward' ava accountability. Achievement: Very Low.er Evidence: ijava Interview Results.

All complaints and questions relating to forest area directly to the management are often addressed chairman of the farmer group without any special is also not supported by mechanism. Responses vijaya Universitas Brawijaya supporting data.

"Usually if anyone asks about the management of ava-Universipreserved forest area will meet me directly (I1-1)" a Brawii ava Univers In addition, KTH "Bersama" does not have performance lava and financial reporting procedures therefore there are no performance reports that can be used to assess KTH Bersama in managing forest areas to date whereas KTH Univers "Bersama" is required to prepare reports on the Universitas Brawijaya Universitas Brawi Universitas Brawijaya

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awijaya awijaya Universitas Brawijaya Universitas Brawijaya implementation of preserved forest area management to the government every year.

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## Universitas 5.4.4. Inclusiveness Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawii Inclusiveness refers to the opportunities available for all stakeholders liava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijato participate in and influence decision-making processes and jaya actions. Governance is regarded as inclusive when all those with a stake in governance processes and their outcomes can engage with them on a basis equal to that provided to all other stakeholders.

#### 5.4.4.1. In SBFM

In general, overall outcome is high with exemplary with to further "cutting-edge" good opportunities advance iversitas Brawijaya governance

a. First outcome: All stakeholders have appropriate opportunities to participate in the governing body's Very processes and actions. Achievement: s Brawijaya and s Brawijaya Evidence: reports. Management regulations, interview results.

Participatory management is chosen by forestry agency awijaya Universitas Brawijaya in managing preserved forest area. Forestry agency lava Universinvolved all stakeholders related to preserved forest area il ava namely local communities, NGO, private, other government institution, university, and etc especially in rehabilitating forest area. It is also made possible by the existing regulations. There are several examples that Universican be found through their program implementation layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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report. First, in period 2013-2016, involved local communities as working group of forest Universite rehabilitation and military institution as supervisor of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universified translation of the second section of the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universinvolved as forest rehabilitation technical assistant illustration Second, in 2013, forestry agency requested input from University of Bengkulu in preparing a feasibility study on the permit for the use of forest areas construction. Third, in 2014, Forestry agency involved schools, media, and private in the socialization of nature conservation activities. Fourth, in 2014, Forestry agency iversitas Brawijaya involved local communities and also technical unit of lava forestry ministry in reconstruction of forest area boundaries.

"We always strive to involve all stakeholders in managing preserved forest areas. This is not only due to the limitations of our personnel, but also on the experience where involving all interested parties will improve the Universitas Brawijaya success rate (I1-1)" Participation of stakeholders in managing forest areas can be found at all stages of implementation of activities Implementation, and supervision. Univers This form of participation can be either advice, financial, lava or even directly involved in the work program. There are such mechanisms used managing others through participation, among agreements, proposals, hearings, development planning Universitas Brawijaya Universitas Brawijaya

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Universimeetings, and others. Sitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya "Stakeholders can involve in to all stage of implementation but certainly through procedures that have been regulated in existing rules (I1-3)"

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b. Second outcome: The governing body actively seeks to engage marginalized and disadvantaged stakeholders.

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Univers Achievement: Very High. s Brawijaya Universitas Brawijaya

In general, there has not been any marginalized or disadvantaged stakeholder in preserved forest management. If it is found cases like this in the future, then they will take precedence for handling such as bids for joint management, aid of non-timber productive plants, partnership program offering, etc.

"So far we have not found a case like this. If at any time there is a case like this, it will be prioritized to be handled. We have some option to handle it (I1-2)"

## 5.4.4.2. In CBFM

In general, overall achievement is high with exemplary with opportunities to further advance "cutting-edge" good governance.

a. First outcome: All stakeholders have appropriate opportunities to participate in the governing body's processes and actions. Achievement: Very High.

Univers Evidence: Regulations, and interview results. sitas Brawilava

KTH "Bersama" opens opportunities to all those who want to play a role in the management of their permit area. It must be in accordance with their vision and agreed upon in the deliberations of KTH's members.

There are some examples of stakeholder participation.

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awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University First, KTH "Together" involves environmental NGOs as a companion in the management of protected forest areas. Second, KTH "Bersama" involved government Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universigencies in rehabilitation activities. Third, they open up layar Universitas Brawijaya Universitas Brawijaya Universion portunities a for a cooperation lain marketings their java agricultural production and also for developing ecotourism in their permit areas. "We are open to cooperation as accordance with the procedure (13-3) Second outcome: The governing body actively seeks to

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engage marginalized and disadvantaged stakeholders. Achievement: Very High.

Similar with in SBFM, marginalized and disadvantaged in a stakeholders is also not found in permit area of CBFM of Pengentaan. Everyone who working within the permit area come from nearby villages and have kinship ties.

This will encourage them to help each other if in the future there are members who are less fortunate even without special procedures.

"Alhamdulillah, all members of KTH "Bersama" have a lava fairly productive coffee plantation within our permit area. Universif someday there are less fortunate, we will help because lava we come from a nearby village and have a kinship (I3-4)"

## Universitas 5.4.5 ja Fairness will as Brawijaya Universitas Brawijaya Universitas Brawijaya

Fairness refers to: the respect and attention given to stakeholders" the reciprocal respect between higher and lower views; authorities; consistency and absence of personal bias in decision Universitas Brawil making; recognition of human and indigenous rights; recognition of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya the intrinsic value of nature; and the consideration given to the intra-

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Universitas Brawil and intergenerational distribution of costs and benefits of decisions.

#### Universitas Brawija5.4.5.1 ivin SBFM rawijaya Universitas Brawijaya

Uni In general, overall achievement is high with high level of java performance with potential for improvements.

a. First outcome: Stakeholders, office-bearers and staff are heard and treated with respect and there is reciprocal respect between governors from higher and lower level authorities. Achievement: Very High. Evidence: Interview results.

> All employees interviewed give similar opinion that they are heard and treated with respect from higher level and lower level authorities. There was a strong family atmosphere among them. It facilitated coordination among employees. Small conflicts were common and it can be resolved internally. Conflict between forestry agency and stakeholders were very rarely even if there awijaya Universitas Brawijaya is not caused by lack of mutual respect. Iniversitias Brawijaya

Univers"The relationship between employees went well even lava more towards familial relations. There was rarely conflict between employees or with stakeholder caused by unrespect behaviour (I1-1)" Brawijava Universit

"We were treated well every time we deal with forestry agency (I2-1)"

Second outcome: Decisions are made consistently and

Evidence: Achievement: without bias. Moderate.

Regulation and interview result.

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University Normatively, the forest service has standard procedures in the formulation of policies as well as applicable to University other agencies in the regional government. Policy was Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universification level and then was approved by lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universiagency head. Furthermore, it will be discussed in Body ijaya of Regional Development Planning before being legitimized by the mayor. Policy formulation was done by things, considering many among others: availability, priority problem, special direction from community proposal, regional government, local regulation, etc. Every policy formulated will be supported iversitas Brawijaya by technical data/information.

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"The policy formulation procedure applies equally to all departments in regional government of Empat Lawang Intervention is one of the main highlights in the principle of fairness. There is a difference of opinion among informants regarding intervention. Some argue that most of these mechanisms have been implemented but there were still interventions during the implementation of those policies, especially those related to 8 the lava determination of the implementing parties. There is also the opinion that mechanism is run but only for the formality only. Policy formulation is more dominant to accommodated the interests of certain parties. As univers evidenced by the emergence of work programs that are Universitas Brawijaya Universitas Brawijaya

Universing through the process of discussion at the section lava

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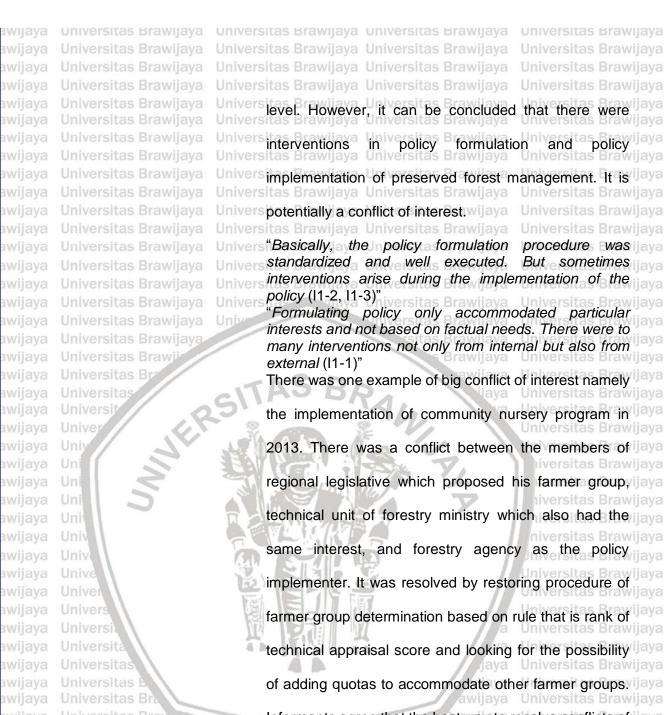
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Informants agree that the best way to resolve conflicts of Universinterest is to restore procedures according to the rule:awilava

"The implementation of community nursery program in 2013 was a best example for intervention and how to solve it. It was a big conflict of interest and honestly it was very tiring (I1-3)"

Third outcome: Indigenous people, human rights and the intrinsic value of nature are respected. Achievement:

Very High. Evidence: Regulation and interview result. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



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Universing general, preserved forest area is utilized by local communities whose are indigenous people of Lintang Universitribe. Most of them are forest encroaching communities lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University working as a coffee farmer in preserved forest area. They Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universare involved actively in forest governing not only as java object of policy but also as subject of policy.

> As mentioned before, policy of preserved forest management refers to several regulations considering IUCN definition and also principle of protected area management. It means that ecological values have been considered in managing preserved forest area. iversitas Brawijaya Furthermore, local wisdom is also considered as long as in accordance with regulations.

Fourth outcome: The distribution (intra- and intergenerational) of the benefits and costs of decisions and actions are identified and taken into account. Achievement: Very High. Evidence: Interview result, plan of spatial and territory, and strategic plan. Versitas Brawijaya awijaya Universitas Brawijaya Policy formulation has considered several things lava

Universincluding equitable treatment for all stakeholders. For lava example, project of forest rehabilitation involved forest encroaching community by considering their economic dependency on forest area. The selection of high value economic crops used in forest rehabilitation was also done by considering the distribution of cost and benefit Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya for all parties involved in the rehabilitation project.

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Forestry agency chooses empowering encroaching community instead repressive actions that can actually be justified by the law. It is an evidence of consideration of intra-generational fairness in managing preserved

Universiforest area by government. Brawliava

"Project of forest rehabilitation is a good example to explain that there was equitable treatment for all stakeholders. We choose empowering them instead taking repressive action because we realized that they depend economically on forest area (I1-1)" Inter-generational fairness is stated indirectly on plan of spatial and territory period 2012-2032 and strategic plan of forestry agency period 2013-2018. In plan of spatial and territory, it is stated that the objective of regional development of Empat Lawang district is making a reliable regency based on agriculture and tourism with sustainable environment as the frame. While the first mission noted at strategic plan is increasing sustainable

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

use of forest areas for people welfare. The use of the

term sustainability in those plan is an indicator of the

## Universitas Brawii 5.4.5.2. In CBFM rawijava Universitas Brawijava

a. Stakeholders, office-bearers and staff are heard and treated with respect and there is reciprocal respect between governors from higher and lower level

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authorities. Achievement: Very High. Evidence: Interview results. Universitas Brawijaya Universitas Brawijaya

Universimutual respect is clearly visible in the KTH "Bersama" in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University of personal proximity among members either lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universibecause of the proximity of the residence or the kinship lava relationship. This personal proximity factor also makes them treat other members with respectful and there were relatively no conflicts caused by a lack of respect between them. If there is a conflict it will be resolved with a familial approach.

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"We have personal proximity to each other therefore we treated other respectfully (13-3)" niversitas Brawijaya

Decisions are made consistently and without bias.

Achievement: Very High. Evidence: Regulation and interview result.

Policy formulating is conducted through member meeting mechanism. In that forum, all management plans will be discussed together and at that forum also the draft of policy is legalized into a group work program. awijaya Universitas Brawijaya

There are not too many parties involved in preserved Universiforest management and it minimizes the chance of lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava

"Every decision will be taken in member meeting. As long as I know there is no conflict of interest to date." (13-3)

Indigenous people, human rights and the intrinsic value Unive

of nature are respected. Achievement: Very

University Evidence: Regulation and interview result. Versitas Brawijaya

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forest.

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya KTH "Bersama" as governing body of CBFM of Pengentaan is dominated by indigenous people. It means that forest management should has been ava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universided local wisdom. However, in the interview lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University revealed that there is a neglect of ecological values in jaya forest management. Members of KTH "Bersama" still maintain an agricultural-cultivation-oriented pattern. Whereas cultivation activities are prohibited in preserved

> "The pattern of land use remained the same as before issuence management permit ie coffee plantation." (13-3) Even they deliberately do not care for plants grown in lava iversitas Brawijaya rehabilitation project for fear of disturbing their coffee

"The success rate of forest rehabilitation is very low with resistance of our group members for fear of disturbing their coffee plants. You can check it in to other members." (13-5)

The distribution (intra- and intergenerational) of the benefits and costs of decisions and actions are identified and taken into account. Achievement: Very Low. Evidence: Interview result. Brawijaya Universitas Brawijaya

UniversiThe existence of equal rights and obligations among lava members and mechanisms of decision making through deliberalitations to consensus is evidence of intragenerational fairness. While a neglect of sustainable management inter-generational is evidence of Universitas Brawijaya Universitas Brawijaya

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Univers "we take decisions through deliberation by listening to all opinions of all parties who will be affected by our Universidecision." (13-3) Universitas Brawijaya Universitas Brawijaya

## Universitas 5.4.6. | Connectivity as Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitias Brawii Connectivity requires: effective coordination within and between lava levels of governance, coherence in broad policy intent and direction within and between levels of governance, and allocation of power to those institutional levels that best match the scale of issues and values being addressed.

#### 5.4.6.1. In SBFM

In general. Overall achievement is high with exemplary with layer opportunities to further advance "cutting-edge"s good ijaya governance.

body is effectively First outcome: The governing connected and coordinated with governing bodies at different levels of governance, and the governing body's direction and actions are consistent with directions set by higher-level governance authorities. Achievement: Very High. Evidence: Regulation, implementation report, and lava

Univers Interview result Universitas Brawijaya Universitas Brawijaya The relationship between Forestry Agency of Empat Lawang with governing bodies at different levels such as Forestry Agency of South Sumatera, Technical Unit of Environment and Forestry Ministry (BPDAS Musi, Java Universitas Brawijaya Universitas Brawijaya BP2HP, BPTH, KSDH, and BPK) went well.

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Coordination, consultation, reporting, was done mutually considering the existence of University continuous work processes between levels. ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univers "We have a good relation with all of institution related to lava University forest management." (11-1) Brawijaya Universitas Brawijaya Univers Moreover, all of actions and directions of forestry agency ijava related to preserved forest management should be in line with direction from provincial agency and also ministry. It considers that all of actions and direction must refer to regulations dominated from environment and forestry ministry. In most of those regulations, there is a clear allocation of role and responsibility for each level. "All of our actions and directions related forest avamanagement are in line with direction of provincial agency and also ministry. In several actions, we must get their approval to execute it." (I1-1) Second outcome: The governing body is effectively

governing bodies connected and coordinated with operating at the same governance level. Achievement: Verv High. Evidence: Implementation report, laya

Forestry agency also has a good relation with other Universinstitution in same level such as: secretariat of regional lava government, regional development planning body, attorney, police, military command, inspectorate, etc.

Memorandum of Understanding, and interview result. awijaya

This is related to reporting, coordination of activities, supervision, and consultation. Program of forest protection is one of examples. Forestry agency involved Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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police, attorney, and military institution as an integrated unit work of forest protection.

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"Although their responses are sometimes slow, but in general our coordination with forestry agency went well." Univers (14:4) rawijaya Universitas Brawijaya Universitas Brawijaya

Unic. Third outcome: The levels at which power is exercised lava matches the scale of associated rights, needs, issues and values. Achievement: Very High. Evidence: Implementation report, regulation, and interview result.

Forestry affairs is one of those matters which have strict rules and have a clear legal consequence. Usually, adjust to forestry district government will regulation/policy. In the case of an urgent regional policy lava colliding with forestry regulations, the forestry agency avashall file a dispensation application where its mechanism has been regulated. The policy can only be executed after obtaining approval from forestry minister. For policy of road construction that crosses example, preserved forest area in sub district of Pendopo and Paiker. This road must be constructed to shorten the distance of these sub district which ultimately can lava Universification of agricultural products that will have impact on improving community welfare. This was essentially unworkable because road construction in a preserved area is forbidden. However, after the forestry agency submitted a dispensation request to the forestry Universitas Brawijaya Universitas Brawijaya

Universiministry and approved, the road construction can be lava

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implemented. ministry/provincial agency will adjust its policy to regional University policy, for example in the addition of quota of program lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Univers"Usually, regional government will adjust its policy to liava ministry policy although we can ask dispensation through mechanism that has been regulated. Road construction in Pendopo is a good example. But sometimes, ministry adjusts its policy to regional policy. Project of community nursery is an example." (I1-1) Furthermore, as mentioned before, accommodating local

issue in forest management plan was done through meeting and also regional development planning community proposal. It will be accommodated as long as iversitas Brawijaya in accordance with the regulation.

## 5.4.6.2. In CBFM

In general, overall outcome is moderate with improvement desirable

The governing body a. First outcome: connected and coordinated with governing bodies at different levels of governance, and the governing body's direction and actions are consistent with directions set by University higher-level agovernance authorities. Achievement: lava Moderate. Evidence: Interview result.

KTH "Bersama" have to coordinate to some parties such as: Forestry Agency of Lahat, Forestry Agency of South Sumatera, Technical Unit of Forestry Ministry, etc for University reporting, a coordination, a consultation, we and also lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya supervision. But this relationship goes poorly where KTH "Bersama" is passive and more waiting although they are Universimple, welcome to those institution. For example, the slow lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University process of preparing work plans and reports where KTH lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univer "Bersama" reasoned that their counsellor had not yet lava University come to guide them. Issitas Brawijava

- b. Second outcome: The governing body is effectively connected and coordinated with governing bodies operating at the same governance level. Achievement:
  - Moderate. Evidence: Interview result.

As mentioned before, KTH "Bersama" has not effective niversitas Brawijaya relationship with other governing body at same level. awijaya

"KTH "Bersama" is passive so far, we should take the initiative to contact them. We also have not received their forest management reports since the permit was issued. Although, we have also worked with them in rehabilitating the forest area where their welcome was excellent." (I1-5)

Third outcome: The levels at which power is exercised matches the scale of associated rights, needs, issues and values. Achievement: Very Low. Evidence: Interview awijaya Universitas Brawijaya

Univers KTH "Bersama" is a working unit in lowest level in forest lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya management. All of their actions and direction must be accordance with policy of governing body in upper level.

> Accommodating of local issue is done as long as in accordance with regulation and they understand the

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universitas Brawijaya universitas Brawijaya universitas Brawijaya universitas Brawijaya Universitas Brawijaya Universitas Brawijaya In fact, KTH "Bersama" still failed to meet direction of upper level. The resistance of group members in the Univers rehabilitation programs is an example. Universitas Brawijaya Universitas Brawijaya

## Universitas 5.4.7. Resilience and Adaptability liversitas Brawijaya

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Universitias Brawii Resilience refers to the amount of change or disturbance that can be lieve absorbed by a system before it is reconstituted into a different set of processes and structures.

#### 5.4.7.1. In SBFM

In general, overall overcome is high level performance with exemplary with oppurtunities to further advance "cuttingedge" good governance. Iniversitas Brawijaya

First outcome: The governing body has processes to lava assimilate new knowledge, learn tas from tava experience, manage risk, and enable adaptive planning Evidence: and management. Achievement: Implementation report, strategic plan, result.

Forestry agency was concern to new knowledge. There awijaya Universitas Brawijaya are some examples of it namely: procurement of hi-tech Univers equipment such as GPS since 2012 and Drone in 2015, ijaya GIS utilizing since 2011, etc. It was done to improve forest management. Learning from experience was also done by forestry agency. Rehabilitation pattern change is an example. Participative rehabilitation was a University response of implementation failure in the previous time lava

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Universitas Brawijaya Universitas Brawijaya Universin which rehabilitation was conducted without involving local community. Adaptive management was University enabled. Utilizing GIS in determination of rehabilitation Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universiplan is an example. GIS analyzing will result some option lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University of rehabilitation model. It can be chosen based on the lava situation on the field. It was done by forestry agency through Preparation of forest and land rehabilitation management plan for the period of 2011-2016.

> "We always try to adjust to the times. We always try to actualize the work equipment and the ability of employees. We recorded it in our report' (11-1) tas Brawijaya Employee competency was also a priority. Assignment of employees to follow education, training, and Jaya refreshing is the way used to improve employee competence. Forestry agency sent employees to training program conducted by government institution and also private training centres each year.

However, there was lack of attention in research. Forestry agency has never done research although they never inhibited research conducted by other institution. It can be understood considering lack of budget and also Universities research was not included in the main task and function lava of forestry agency. versitas Brawijaya

Planning changes in the current year was also enabled. It was done to accommodate changes in the field Universi University conditions or changes of budget. The mechanism was Universithrough proposing the change to the relevant agency.

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universitas Brawijaya universitas Brawijaya universitas Brawijaya Universitas Brawijaya Universitas Brawijaya b. Second outcome: The governing body has the flexibility to rearrange its internal processes and procedures in University response to changing internal or external conditions. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University Achievement: Very High. Evidence: Implementation layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University report, document of budget change, and interview result. As mentioned before, change in plan was a common

thing in forestry agency. The procedure was through resupported establishment data/information legalized by the relevant agencies. Implementation report also recorded change of program implementation.

"Change in plan was a common thing. There was a standard procedure to accommodate it. We noted it in our implementation report." (11-2) Third outcome: Formal instruments or mechanisms

provide long-term security, tenure and purpose for the protected area. Achievement: High. Evidence: Interview result.

Forestry agency has realized that forest sustainability can be gained by collaborative management in which all vijaya Universitas Brawijaya involved. Strengthening local stakeholders were community institution and Establishment of an integrated Universiwork unit was a response of it. wijaya

> "Collaborative management is an instrument to achieve forest sustainability considering the limitation of our resources" (11-3)

#### Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Brawijaya Universitas Brawijaya

In general, overall achievement is low with substantial Universitas Brawijaya Universitas Brawijaya Unimprovement desirable.ersitas Brawijaya

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universitas Brawijaya a. First outcome: The governing body has processes to learn from assimilate new knowledge, Universexperience, manage risk, and enable adaptive planning lava Universitas Brawijaya Universitas Brawijaya Universand management. Achievement: Low. Evidence: Universitas Brawijaya Universitas Brawijaya Univers Interview result Universitas Brawijaya KTH "Bersama" is passive in responding new knowledge. Learning from experience should be done by them because this is a common thing. Enabling adaptive planning and management can be identified properly because of the absence of management plan and report. "We are not very updated with new knowledge. But we always try to understand when our companion delivers new information." (13-3) Similar with in SBFM, there is lack attention of research. Research is still something unfamiliar to them. Although they always support any research undertaken in their permit area.

"We were asked several times to accompany the research and we always support as long as we can." (I3-

Second outcome: The governing body has the flexibility to rearrange its internal processes and procedures in lava University response to changing internal or external conditions, lava

Achievement: Moderate. Evidence: Interview result.

Although formal management plans do not yet exist, but they operate according to group consensus. Changes to also made possible through member activities are Universideliberations. Universitas Brawijaya

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"Each activity plan and plan change of activities will be discussed and agreed with the members." (13-3).

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c. Third outcome: Formal instruments or mechanisms University provide long-term security, tenure and purpose for the lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University protected area. Achievement: Very Low. Evidence: ava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univers Interview result Universitas Brawijaya Universitas Brawijaya

Absence of management plan and also management report makes difficulty in analyzing. There is no formal instrument that can guarantee the forest sustainability considering most of the group members remain coffee main comodity. In personal, chairman of KTH "Bersama" stated that development of ecotourism can be iversitas Brawijaya to achieve forest sustainability./ijaya will improve community welfare with minimize impact to forest area. He has scheduled to discuss it with the members.

"We will develop ecotourism in our permit area considering we have potential of waterfall. It will be discussed in member meeting." (13-3). Universitas Brawijaya

#### Universitas 5.4.8. Assessment Summary and Assessment Result Comparison rawijaya

Assessment summary of SBFM and CBFM and also the comparison Universitas Brawii between them can be seen in table 5.10. From that table, it can be lava Universities Brawn seen that SBFM performed better than CBFM in 6 (six) principles Universitas Brawij while the rest is noted similar achievement.

In Legitimacy, in fact, CBFM received very high appraisal at 3 (three) out of a total 6 (six) outcomes. However, the sixth outcome that Universitas Brawil received low appraisal resulted in overall achievement being lower lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya



Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitias Brawll than SBFM. In transparency and accountability, SBFM is only not awijaya good in outcomes related performance target and authority Universitas Brawli acceptance while the rest were noted high results. The absence of Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Brawii management plan and also management report that is an obligation lava awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawij of KTH "Bersama" leads to poor assessment results for CBFM. Brawijaya awijaya awijaya In inclusiveness, both SBFM and CBFM get the same rating. Both of awijaya awijaya them performed very well. SBFM considered incapable of carrying awijaya awijaya out the principle of inclusiveness is able to collaborate well with all awijaya awijaya stakeholders. In fairness, a neglect of ecological value is the biggest awijaya awijaya management must be laya in CBFM. Preserved forest awijaya awijaya through ecological value to achieve management awijaya niversitas Brawijaya sustainability. SBFM performed better related to this matter. The awijaya awijaya passivity and also the informal impression of KTH "Bersama" as the awijaya awijaya governing body of CBFM of Pengentaan caused CBFM to get a lower awijaya appraisal result than SBFM in connectivity and resilience. awijaya awijaya

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nivorcitae	Rrawijava	Universites	Rrawijava	Universites	Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Table 5.11. Assessment summary and its comparison

awijaya	Universitas Brawijaya Un	iversitas Brawijaya Universitas E	Brawijaya Universitas Bra
awijaya	Universitas Bra Principle Un	Overall Achievement/Assessr	ment against invidual elements
awijaya	Universitas Brawijaya Un	iversitas Brawijaya Universitas E	
awijaya	Ullive <del>Sitas Brawnava Un</del>	iversit SBFMawijaya Universitas E	CBFM
awijaya	Universitas Brawijaya Un	Improvement desirable	Substantial improvement
awijaya		iversitas Brawijaya Universitas E	
wijaya	Unive Outcome 1	<del>iversitas Brawijaya Universitas E</del> High	Very High
wijaya	Outcome 2	Moderate	Very High
wijaya	Outcome 3	Very High aya Universitas E	Very High Universitas Bra
awijaya	Unive Outcome 4 Vijaya Un	iversit Very High aya Universitas E	Very High Universitas Brav
awijaya	Unive Outcome 5 vijaya Uni	iversit Very High ava Universitas E	Very High
awijaya	Unive Outcome 6 ijava Un		Lowijaya Universitas Brav
awijaya	Univer Transparency aya	High level of performance	Substantial improvement
awijaya	Universitas Brawii	with potential for	desirable Universitas Brav
awijaya	Universitas Br	improvements	wawijaya Universitas Bray
awijaya	Unive Outcome 1	High	Low java Universitas Bray
awijaya	Unive Outcome 2	Moderate	Very Low University Rray
awijaya	Outcome 3	Very High	Very Low
awijaya	Accountability	High level of performance	Substantial improvement
awijaya	Uni	with potential for	desirable liversitas Bray
awijaya	Uni	improvements	A hiversitas Bran
awijaya	Outcome 1	Moderate	Moderate
	Outcome 2	Very High	Very Low
awijaya awijaya	Univ Univ Univ Inclusiveness	Exemplary with opportunities to further advance 'cutting-	Exemplary with opportunities to further advance 'cutting-
awijaya	Univ	edge' good governance	edge' good governance
awijaya	Unive Outcome 1	Very High	Very High Universitas Brav
awijaya	Unive Outcome 2	Very High	Very High Universitas Brav
awijaya	Univer Fairness	High level of performance	Substantial improvement
awijaya	Universit	with potential for	desirable Universitas Bray
awijaya	Universita	improvements	aya Universitas Bran
awijaya	Unive Outcome 1	Very High	Very High
awijaya	Outcome 2	Moderate	Very High
awijaya	Outcome 3	Very High	Very Low Universitas Bran
awijaya	Outcome 4	Very High	Very Low
awijaya	Connecivity	Exemplary with opportunities	Substantial improvement
		to further advance 'cutting-	desirable
awijaya		edge' good governance	Brawijaya Universitas Brav
wijaya	Outcome 1	Very High	Moderate
wijaya 	Outcome 2	Very High	Moderate
wijaya	Outcome 3	Very High	Very Low
ıwijaya	Resilience and Adaptak	oility Exemplary with opportunities	Substantial improvement
awijaya	Universitas Brawijaya Un	to further advance 'cutting-	desirable Universitas Brav
awijaya	Universitas Brawijaya Un	iversit edge' good governance itas E	Brawijaya Universitas Bra
awijaya	Unive Outcome 1 Jaya Un	iversiti High	Lowijaya Universitas Brav
awijaya	Unive Outcome 2 / ijaya Un	iversit Very High	Moderate Universitas Brav
awijaya		iversit: High	Very Low Universitas Bray
	outcome.orijaja on	1Q	Total Silitorollado Dia

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# Analysis of Effect of Applying Good Governance Principles on Forest

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## Sustainability

miversitias Effect of applying good governance principles on forest sustainability refered Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities to a framework proposed by Eklund and Cabeza in 2016. In general, quality Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias of governance (good governance) and suitable type of governance and also lava pressure will determine outcome of forest management. In this research, pressure has been tried to be minimize by selecting two adjacent forest area.

And outcome refered to deforestation rate.

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#### Universitas 5.5.1. **Deforestation Rate**

Deforestation rate assessed was in preserved forest area of Bukit Dingin at sub-district Lintang Kanan representing SBFM and permit area of KTH 'Bersama' representing CBFM. Deforestation rate was taken by GIS analysis of land cover change in different time namely in 2011 and 2015.

In general, there were 4 (four) types of land cover in both area namely: primary forest, secondary forest, dryland farming, and shrub. In researcher experience, shrub is a young coffee plantation. Deforestation rate was measured by calculating decrease of primary awijaya Universitas Brawijaya Universitas Braw, forest area and secondary forest area. Brawijaya Universitas Brawijaya University

Universitas Brawii In preserved forest area of Lintang Kanan, cover area was dominated ijava Universities Brawn by secondary forest and dryland farming. Primary forest is still exist in spite of small area. While there was no primary forest area in permit area of KTH 'Bersama'. Land cover is dominated by secondary forest Universitas Brawijaya universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Brawijaya Universitas Brawijaya



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Universitas Brawijaya awijaya awijaya Universities Brawl Land cover changes occur in both preserved area with a percentage awijaya awijaya change that was not much different. In Lintang Kanan, there was awijaya awijaya Universitas Brawli decrease area of primary forest and also secondary forest in 2015 Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawli compared to 2011 accounting for 46,91 hectares and 800,57 laya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawij hectares respectively. While in permit area of KTH 'Bersama', there il ava awijaya awijaya was decrease of secondary forest accounting for 19,19 hectares. awijaya Land cover change can be seen in figure below: awijaya awijaya awijaya Figure 5.6. Land Cover of Preserved Forest Area in Sub-District of awijaya awijaya Lintang Kanan (2011) awijaya awijaya Land Cover of Forest Area Sub-District Lintang Kanan awijaya Hutan Lahan Kering Prime awijaya <all other values: awijaya Hutan Sekunder KETERANGAN PL\_LK\_2011 awijaya awijaya

Universitas Brawija Source: GIS Analysis by Researcher

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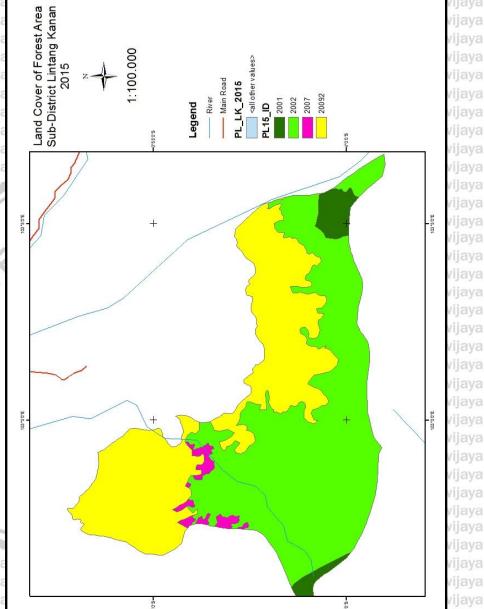
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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawl Figure 5.7. Land Cover of Preserved Forest Area in Sub-District of

Universitas Brawij Lintang Kanan (2015) ijaya Universitas Brawijaya iiava Universitas Brawijaya

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Universitas Brawijaya Universitas Brawii Source: GIS Analysis by Researcher Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawij From these maps, it can be clearly seen the land cover change of laya Universitas Brawii preserved forest area. Dryland farming symbolized by yellow color/lava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya reduced the area of secondary forest symbolized by light green color.

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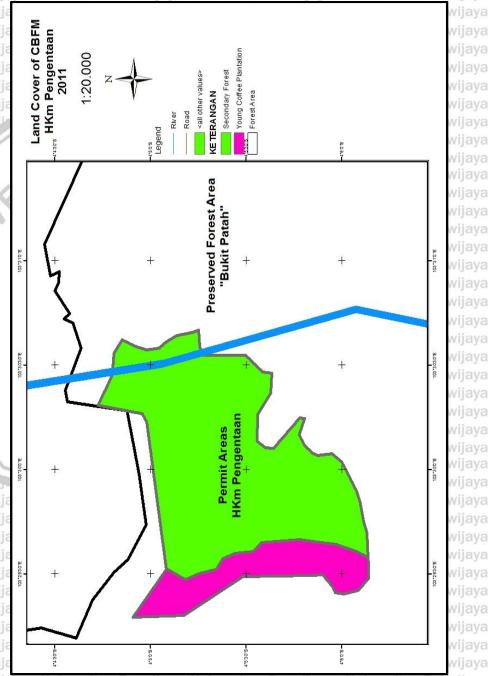
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Universitas Brawijaya Universitas Brawija Universitas Brawijaya Secondary forest Brawijaya Universitas Brawijaya

Universitas Brawl Figure 5.8. Land Cover of Preserved Forest Area in Permit Area of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas BrawijaKTH 'Bersama' (2011) aya Universitas Brawijaya Universitas Brawijaya

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Primary forest area symbolized by dark green color also changed to Universitas Brawijaya Universitas Brawijaya



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Universitas Brawijaya Universitas Brawijaya Universitas Brawii Source: GIS Analysis by Researcher Brawiiaya Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava

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Figure 5.9. Land Cover of Preserved Forest Area in Permit Area of

Universitas Brawij KTH 'Bersama' (2015) aya Universitas Brawijaya

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Land Cover of CBFM HKm Pengentaan Secondary wijaya Shrubs 20.000 wijaya 2015 <all other values wijaya Forest Area wijaya Road PL15\_ID River 2007 egend **Preserved Forest Area** wijaya "Bukit Patah" wijaya wijaya HKm Pengentaan Permit Areas wijaya wijaya wijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawii Source: GIS Analysis by Researcher Brawii aya Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava

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In general, it can be seen that there was change in land cover of permit areas of KTH 'Bersama'. Young coffee plantation symbolized Universitas Brawli by purple color decreased secondary forest symbolized by light green lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitias Brawii Table 5.12. Land Cover Change of SBFM period 2011-2015 as Brawijaya

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Universitas Brawija	ava	Universitas Brawijava Uni	versitas Brawi	java Unive	ersitas Braw
Universitas Brawija	NO.	TYPE OF LAND COVER	versi 2011 rawi	aya2015nive	CHANGE
Universitas Brawija	<b>1</b> a	Primary Forest wilaya Uni	versita <b>573,52</b> /i	aya526,61	rsita46,91v
Universitas Brawija	<b>2</b> a	Secondary Forest	versit8.039,67/i	ay7.239,10	-sit 800,57
Universitas Brawija	3	Dryland Farming	4.805,42	5.503,57	rsit 698,15
Universitas Brawli	4	Shrub	84,03	233,36	149,33
Universitas Bra		TOTAL C D	13.502,64	13.502,64	rsitas Brav

Source: GIS Analysis by Researcher (2017)

From table 5.11, deforestation rate of preserved forest area in subdistrict of Lintang Kanan period of 2011-2015 was 847.48 hectares or 9.84%. This figure is obtained from the number of additions between land cover change in primary and secondary forest. Iniversitas Brawijava

Table 5.13. Land Cover Change of CBFM period 2011-2015

NO.	TYPE OF LAND COVER	2011	2015	CHANGE
1	Primary Forest	-/-	aya Unive	ersitas Braw
2	Secondary Forest	301,11	aya 281,92	-sita 19,19v
3	Dryland Farming	<u>\$</u> /1	jaya Unive	ersitas Braw
4	Shrub	65,16	<sup>aya</sup> 84,35	19,19
	TOTAL	366,27	366,27	ersitas Braw
y d	UIIIVCIDITE CONTRACTOR OF CONT	ersitas brawl	Jaya Unive	cisitas biaw

Source: GIS Analysis by Researcher (2017)

Universitas Brawij From table 5.12, deforestation rate of preserved forest area in permit Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawli areas of KTH 'Bersama' period 2011-2015 was 19,19 hectares or

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# effect of applying good governance s Brawijaya Universitas Brawijaya deforestation

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Universitas Brawl Quality of governance which is another term for good governance is layar Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya regarded to greatly affect of conservation outcome in preserved forest Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias Brawij area. High quality of governance is assumed a positive impact on jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawii outcome and vice versa. versitas Brawijaya

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In fact, this research revealed that the opposite fact to the theory proposed by Eklund and Cabeza (2016). SBFM performing better in applying good governance principles than CBFM has a higher deforestation rate in spite of a small margin of difference. What is the cause of this phenomenom? Iniversitas Brawijaya hiversitas Brawijaya

Eklund and Cabeza stated that pressure other aspect affecting outcome of conservation in preserved forest area. Pressure can be defined as deforestation trigger such as agricultural expansion, wood extraction, accessibility, etc. In spite of adjacent areas, in fact, village of Pengentaan and village of Umo Jati has different level of pressure namelv:

The Possibility of Agricultural Expansion

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In sub-district of Lintang Kanan, the percentage of the population lava Universitas Brawijava working in the agricultural sector in 2014 was 88.24%, which java increased 94.28% in 2015. It can be said that almost all communities in Lintang Kanan work in the agricultural sector. In sub-district of Mulak ulu, 77.41% of the population is employed in the agricultural sector in 2014. This substantial percentage

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya difference will have a different pressure effect on protected forest Universitas Brawijaya Universitas Brawijaya niversitas Brawijaya Universitas Brawijaya The Possibility of Wood Extraction Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Lintang Kanan is located adjacent to the locations known as wood laya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya processing center in the regency of Empat Lawang namely sub-ijaya district of Ulu Musi. There are 3 (three) active sawmills that process local wood. While at Lintang Kanan, there were 8 wood carpentry processing industries with a smaller capacity compared to sawmills. In Mulak Ulu, there were 8 (eight) wood carpentry processing industries and no sawmills in the surrounding subdistricts. This also causes pressure on preserved forest areas in Lintang Kanan is far greater than in the Mulak Ulu. Versitas Brawijava From the explanation above, larger deforestation at Lintang Kanan becomes plausible. There is a far greater possibility of deforestation if Forestry Agency of Empat Lawang has a lower value of governance quality. However, It needs futher research to measure the impact of pressure on conservation outcome in preserved forest area. as Brawlaya

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sustainability of preserved forest area.

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Universitas Brawijaya Universitas Brawijaya 6.1. Conclusion

This research compared two type of governance that are state-based management and community-based management in managing preserved forest areas. The comparison was done on two parameter namely quality of governance (good governance) and forest sustainability. Good governance

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**CONCLUSION AND RECOMMENDATIONS** 

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was evaluated based on Lockwood method and also a framework proposed by Eklund and Cabeza. Lockwood proposed a method of evaluating good lava governance through assessing the application of good governance principles namely: legitimacy, transparency, accountability, inclusiveness, fairness, connectivity, resilience and adaptability. While Eklund and Cabeza proposed framework to describe the effect of governance quality on forest

University In general, SBFM performed better than CBFM in applying good governance was Universita principles according to Lockwood method. In term of forest sustainability, ilaya Universitas Brawijaya Universitas Brawijaya University CBFM noted a lower deforestation rate than SBFM in spite of small margin of lava difference. In detail the conclusions of each research questions is as follows:

1. In general, the principles of good governance have been applied well in SBFM but there are still some deficiencies found. The application of good governance principles in SBFM can be summarized as follow. In legitimacy, Universitias Boverall achievement is improvements desirable. Expansion of authority, Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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boundaries, and integrity are outcomes that must be improved. In transparency, overall achievement is high level performance with potential Universitias of improvements. Providing internet-based information is suggested to lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Bimprove transparency in SBFM. Performance target is the weakest aspect. Jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitias B Forestry official sist failed ito aidentify sperformance atarget clearly. In it available to the control of the Universities accountability, overall achievement is high level performance with potential for improvements. But, the appraisal of employee performance cannot really reflect the real performance. The improvement of appraisal procedure is needed. In Inclusiveness, overall achievement is exemplary with oppurtunities to further advance 'cutting edge' good governance. Forestry agency of Empat Lawang as the governing body of preserved forest area of Bukit Dingin succed to involve all of stakeholders in managing forest area. In fairness, overall achievement is high level performance with potential for improvements. Intervention is a big problem. Intervention results in conflict of interest that is considered to be very disturbing the implementation of perserved forest management policy. In connectivity and also resilience and adaptability, overall achievement is exemplary with oppurtunities to further advance 'cutting edge' good governance. Itas Brawijaya

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CBFM is represented by KTH 'Bersama' as governing body of CBFM of Pengentaan. In legitimacy, overall achievement is substantial improvement desirable. Although getting a very high rating of 5 (five) outcomes out of 6 (six) outcome, the low rate on integrity causes its total judgement to be unfavorable. In transparency, overall achievement is substantial improvement desirable. Absence of written information and management plan is a fatal mistake. In accountability, overall achievement

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awijaya awijaya Universitas B is substantial improvement desirable. Non-compliance in reporting Universities B performance which is their obligation is other fatal errors. In inclusiveness, Universitias B overall achievement is exemplary with oppurtunities to further advance lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas B 'cutting edge' good governance. KTH 'Bersama' has opened opportunity laya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas B for all stakeholders to involve in managing forest area. In fairness, overall/llava universities a achievement is substantial improvement desirable. A neglect of ecological values through resistence in forest rehabilitation is a weak point. In connectivity, The preserved forest areassivity of governing body is an aspect that must be improved. In resilience and adaptability, absence of management plan and also the pattern of land management cause CBFM get rating of substantial improvement desirable.

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From comparison between SBFM and CBFM in applying good governance principles, it can be concluded that SBFM is better than CBFM in which SBFM is superior in 6 (six) principles out of 7 (seven) principles while the rest get the same rating.

- SBFM that is better in applying good governance principles has higher deforestation rate compared to CBFM accounting for 9.84% and 6.37% respectively. Higher pressure from agricultural expansion and also logging lava awijaya Universitas Brawijaya Universitas Bactivities could be the cause. However, the further research regarding the Jaya University Universitas Beffect of pressure factor to deforestation is needed to prove it estats Brawijava
- Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya 3. Both type of governance has advantages and disadvantages. SBFM is good enough in applying good governance principles. However, lack of human resources will be a big obstacles in managing preserved forest areas. While CBFM has a promising future. The availability of abundant Universities Bhuman resources as well as their stronger attachment to forest areas are a lava

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awijaya awijaya distinct advantage for CBFM. Lack of administrative capability and ecological konowledge is a fundamental weakness in CBFM. Therefore,

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Universitias B collaborative management will be better scheme for forest management in Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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# ve 6.2. Recommendations itas Brawijava Universitas Brawijava

Based on the emperical result, discussion, and data of the research there are several recommendations as follows:

- Universitian. There are some recommendations to improve the governance principles in SBFM namely:
  - a. Expansion of authority in smallest forest management unit especially iversitas Brawijaya in the case of licensing;
  - The need to affirm the boundaries of forest area:
  - The need to more serious attention with regard to employee integrity;
  - Provision of internet-based information;

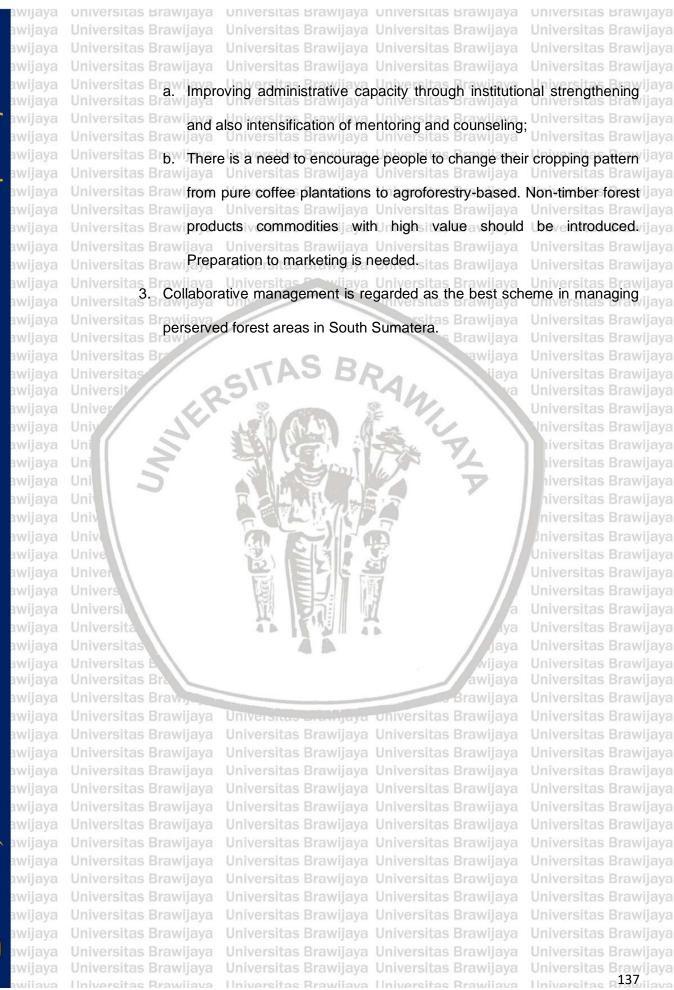
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- on the Performance target must be formulated based benchmarks. The formulation of performance targets should also be in line with the strategic plan and work plan;
- Universitas Bif. The improvement of employee performance appraisal. A tiered jaya Nille Committee ( Universitas Brawiassessment system should be applied. So, the performance appraisalijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Braw results really reflect the real conditions; Brawijava
- g. Work procedures are restored to existing regulations to minimize interventions. tas Brawijaya Universitas Brawijaya
- 2. There are some recommendations to improve the applying good Universitas Brawijaya governance principles in CBFM namely: Itas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya





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