

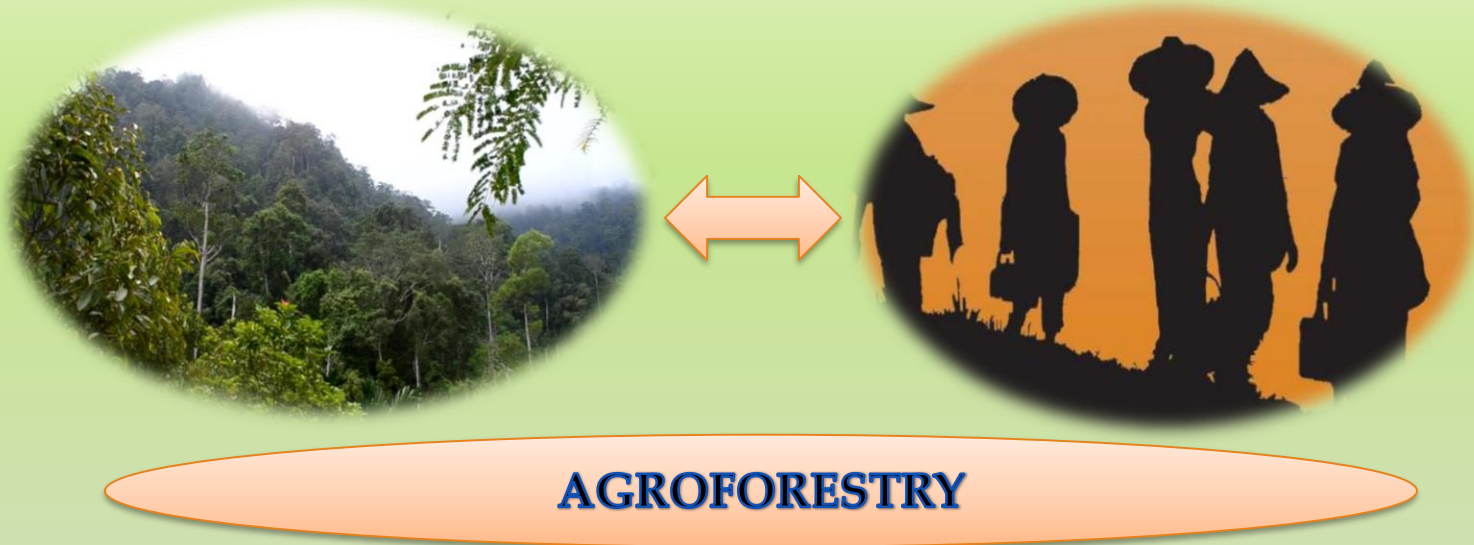


**AGROFORESTRY MANAGEMENT PRACTICES IN
REALTION WITH THE TENURE SECURITY
IN KOTO TANGAH SUB-DISTRICT
WEST SUMATERA INDONESIA**

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INTRODUCTION



Important factors driving the sustainability of agroforestry management systems are the clarity of land tenure and tenure security

- agroforestry is one of the traditional land management.
- the problem that many found in this system is about the issue of land ownership.
- clarity of land should be able to contribute to land management.
- One important factor as the persuasive power of the "tragedy of the common" (written by Garret Hardin, 1968) is the belief that private land will increase the incentives of individuals to manage natural resources sustainably.
- So that people who have security of land tenure will be motivated to responsible for certainty of continuity of production.



OBJECTIVES



To describe the agroforestry management practices in relation with the tenurial security



To analyse the factors that influence the change of agroforestry practices

METHOD

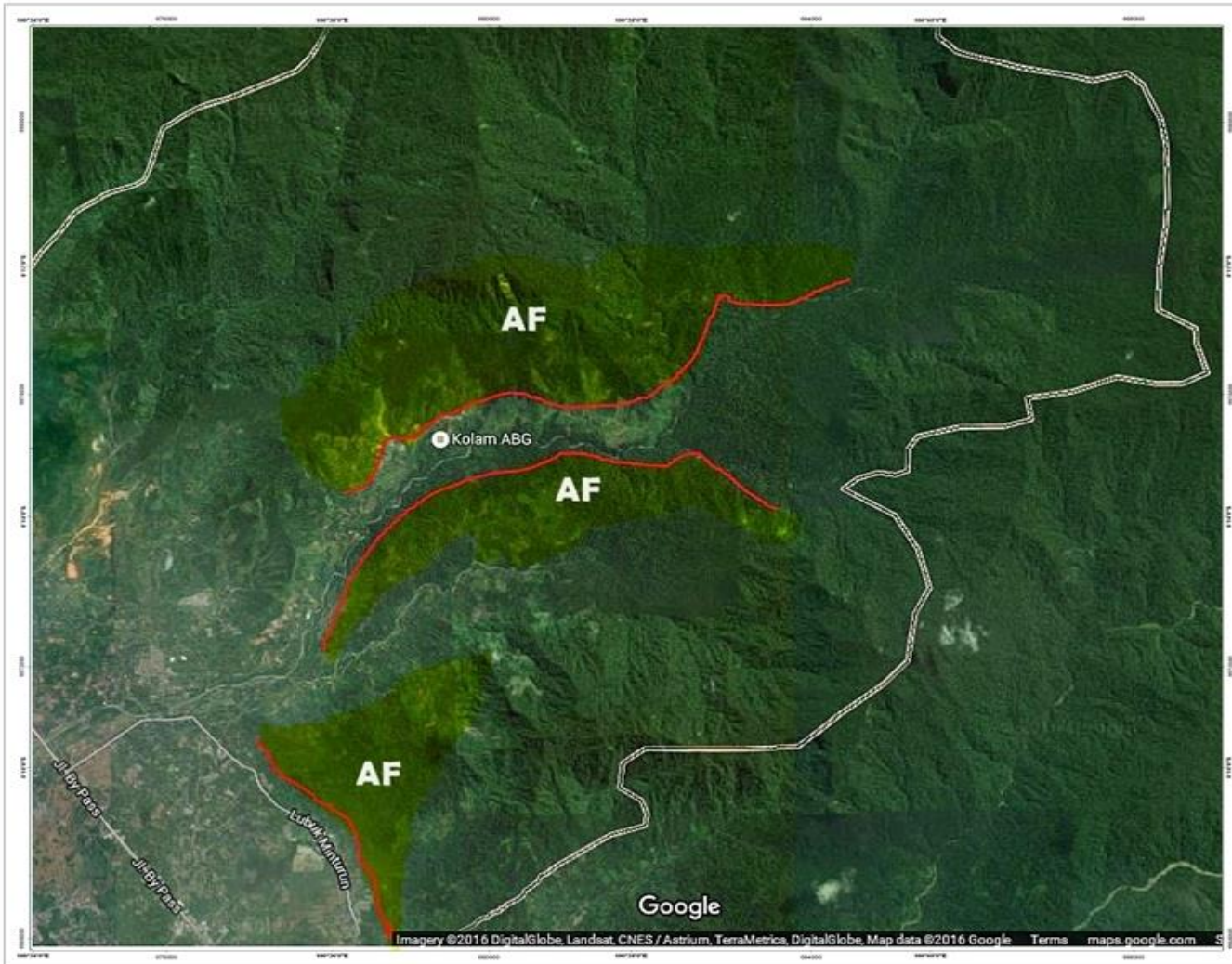
- This study used qualitative method.
- Data collection using PRA method
- Data collection by in depth interview and used line transect to estimate the density of trees in 1 hectare agroforestry area.

STUDY SITE



- Located in Koto Tengah sub district
- Padang is capital region of west sumatera

The agroforestry areas in Koto Tangah



**THE AGROFORESTRY AREAS
IN KOTO TANGAH SUBDISTRICT
WEST SUMATERA
INDONESIA**

Annotation

- AF areas
- Boundary

N

Map Scale
1 : 50.000

SOURCE
GOOGLE EARTH
2016

The History of Agroforestry

- local community manage forest with by customary rules.
- Customary right is controlled by the customary leader which held a decision that the forest can be manage by community as a social function.
- the granting of land rights is based on lineage.

In 70s

- looking for firewood in the forest
- Land clearing with *manaruko* system
- Individuals claimed the land

30 years
ago

- Land clearing with *manaruko* system should be permitted by customary leader
- Transfer land (*siliah jariah*)
- paying some money as a form of transfer rights.

10
years
ago

- Farmer need a letter of permission to managing their land
- Transfer land is still exist
- Strengthening land ownership with the land certificate
- land ownership affects the type of crops

Tenure security and its Agroforestry Management

- Security tenure on agroforestry is an issue today, it is because the forest area can be access to everyone.
- The strengthening of security on agroforestry is a necessity for farmers.
- tenure security affected to how to manage the land. a good land managing will given more higher benefit to farmers household
- in this case, the type of land ownership consists of private land, communal land, and village land



the status of land ownership of agroforestry

- **Private land**

→ the land that categorized as private land is the land have official proof of ownership. The proof of land ownership is a land certificate. this land has been claimed by the state law and customary law.

- **Communal Land (ulayat kaum)**

→ the land that obtained by kinship process. this land only claimed by customary law

- **Villages land (ulayat nagari)**

→ The village land is located in the region of the village. This land could be used by the communities and should be permitted by local institution/ customary leaders.

bundle of rights.

No.	The land status	Bundle of Right			
		Use Right	Management Right	Transfer Right	Ownership
1.	Private land	+	+	+	+
2.	Customary land	+	+	+	-
3.	Village land	+	-	-	-

- (+) : can access
- (-) : no access

Density of agroforestry land

No.	Agroforestry land	components	Density
1.	Private land	Forestry and agricultural	910
2.	Communal land (Ulayat Kaum)	Forestry and agricultural	585
3.	Village land (Nagari Land)	Forestry and agricultural	215

tree tenure right of agroforestry

- the type of plant can be a proof of land ownership. The plant is areca nut.
- areca nut is considered a tree of tenure by local community
- This shows that the system of tree tenure building by agroforestry community in the Koto Tengah is a part of the hereditary who still defend.

- The concept of tree tenure is a form of proof that the guarantee of their land. it is not only a status of formal ownership but also claimed by the community.
- Plants as a “land security” commonly found in agroforestry area that categorized to customary land

The factor that influence the change of agroforestry practices

Population growth

Economic goals

The accessibility to agroforestry

Long-term investments

The social culture orientation of agroforestry community

- more farmers chooses for conducted this practice. The continuity of this practice is strongly influenced by the accessibility to managed agroforestry land.

CONCLUSION

- Tenure security is affected by agroforestry management pattern based on planted species
- This study showed that the private land are likely sustainable to manage their land. Private land has a higher number of densities than communal land and village land
- Land tenure security obtained from the ownership status of the land and the community claim.
- In practice, create security for their land by planting areca nut as a form proving ownership and boundaries of land owned. Proof of ownership of the plant can restrict the access of others to the farmers' land.
- The attention to the development of this system can begin with to solve of the prombel of land clarity and tenure security



Thank you