



# **15 Years of Change:** Gender, livelihood and resource access changes in a matrilineal part of Sumatera

Noviana Khususiyah, Suyanto, Isnurdiansyah and Meine van Noordwijk



• Evolution of land tenure from communal land to private land

The theory of induced innovation (Hayami and Ruttan 1985) argue that both technological and institutional innovation that scare resources occur in response to changing resources endowment. When natural resources became scare, the property right institution evolved from open access to more individualized ownership. This evolution of tenure often erode women's land right (Lastaria-Cornhiel 1997). This study compared two data set in 1997 and 2013 in the matrilineal inheritance system in Sumatera, Indonesia to analyze the implications for gender equity of different patterns of evolution of land tenure and land use decision

#### Land tenure categories

Ownership categories	Owners	Inheritance to	Joint ownership		
Lineage	Lineage members	Sisters, nieces, and daughters	Yes		
Joint Family	Daughters	Daughters	Yes		
Single Family I	Daughter	Daughters	No		
Single Family II	Son, Daughter and son	Sons	No		
Single Family III	Daughter or son	Daughters and sons	No		

**Inheritance rule has changed:** woman obtain more land

The inheritence rule in Bungo for tree crops and bush fallow is land inherited to son only. However, we found the evidence of breaking the rule that indicated by woman also inherited the land.

• The inheritence rule in Bungo for tree crops and bush fallow is land inherited to son only. However, we found the evidence of breaking the rule that indicated by woman also inherited the land.

• Gender income and labor differences, woman income mostly come from annual crops (rice fields and crop fields), where man income come from high-value of commodities (rubber and oil palm).

• Years of completed schooling male and female, increased in the children of respondents' generation in both districts

## **Evolution of land tenure from communal land to private land**

Lineage ownership has been disappear in 2013. It was replaced by new private ownership under the government program namely transmigration.

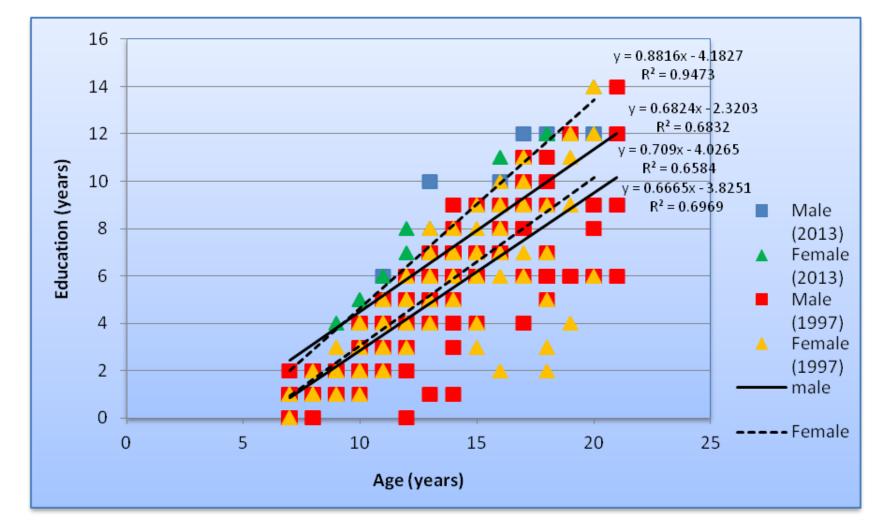
Land use by district	Lineage ownership		Joint family ownership		Single family ownership		Private ownership I (purchase)		Private ownership II (clearance)		Transmigrant	
	1997	2013	1997	2013	1997	2013	1997	2013	1997	2013	1997	2013
1. Paddy field:												
Bungo	0	0	65	77	29	18	6	5	0.1	0	0	0
Kerinci	10	0	64	59	6	33	6	8	8	0.1	0	0
2. Tree plots:												
Bungo	0	0	3	0.1	46	30	12	25	39	39	0	6
Kerinci	5	0	2	0.3	62	44	14	21	19	35	0	0
3. Cropfields:												
Bungo	0	0	0	15.2	0	47	0	0	0	8	0	30
Kerinci	0	0	0	0.7	0	59	0	23	0	17	0	0
4. bush Fallow area:												
Bungo	23	0	3	0	42	36	6	17	27	47	0	0
Kerinci	10	0	19	0	43	87	14	1	13	13	0	0

# Gender income and labor differences

Gender income differences, woman income mostly come from annual crops (rice fields and crop fields), where man income come from highvalue of commodities (rubber and oil palm).

Years of completed schooling male and female





I	Man (%)	Woman (%)		
Bungo	Inheritance rule	100	0	
	Expected inheritance	77	23	
Kerinci	Inheritance rule	50	50	
	Expected inheritance	43	57	

# **Study sites**

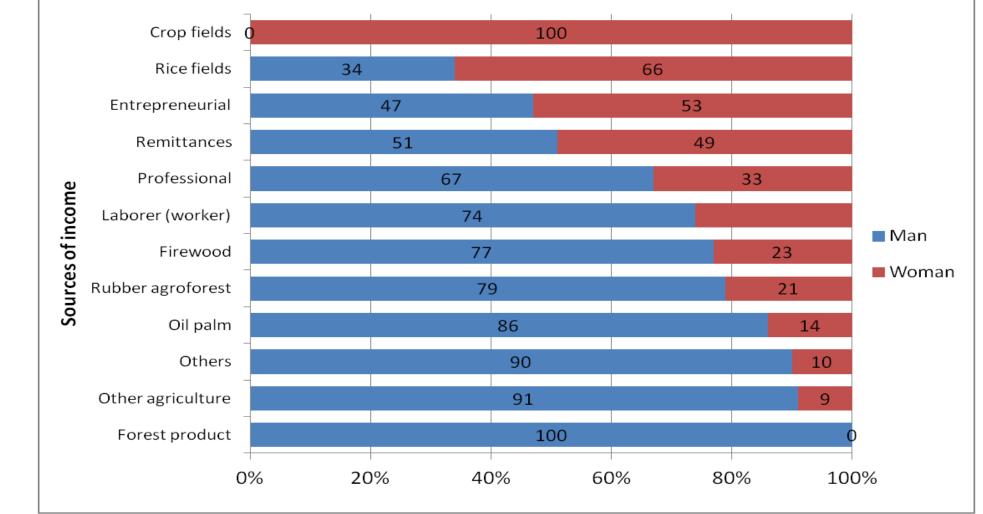
Two contiguous villages are selected in both districts (Jambi Province), in which lowland paddy cultivation and upland agroforestry are the most important farming system. A more collective and matrilineal type of family ownership is common for lowland paddy fields which are surrounded by agroforestry plots or commercial tree plots.

### **Kerinci District**

Cinnamon is a major tree crops and the most common inheritance practice is for daughters and sons to inherit land equally. Kerinci is the most ethnic group in this area

### **Bungo District**

Rubber is a major tree crop. Sons commonly inherit upland fields and daughters inherit lowland paddy fields in this region. Melayu is the most ethnic group as the lowest located district.

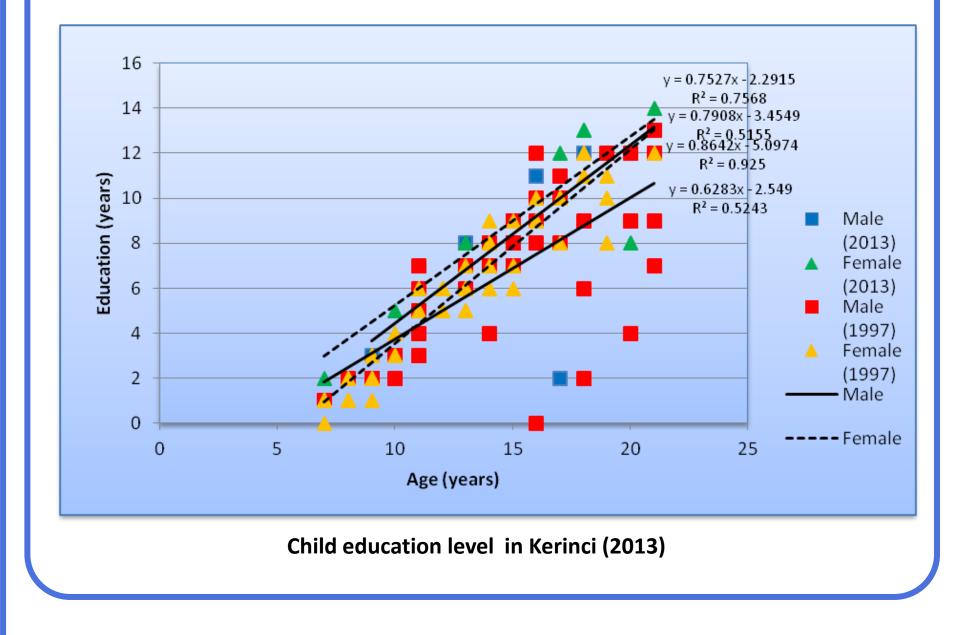


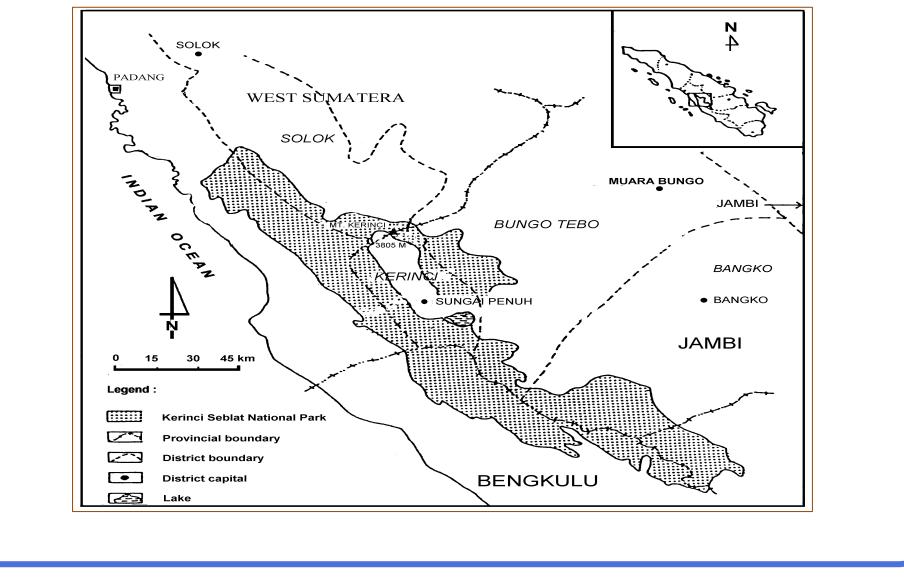
#### **Proportion of labor input in Bungo District**

Type of labor	Wet rice		Upland rice		Young rubber		Mature rubber		Other tree	
	1997	2013	1997	2013	1997	2013	1997	2013	1997	2013
Family labor (percent)										
Men	NA	34	32	0	83	83	91	79	0	86
Women	NA	66	68	0	17	17	9	21	0	14
Total	NA	100	100	0	100	100	100	100	0	100
Total person-days										
per hectare	NA	18	150	0	39	2	53	28	0	20
Total labor (percent) <sup>a</sup>										
Men	NA	28	30	0	68	59	92	81	0	69
Women	NA	72	70	0	32	41	8	19	0	31
Total	NA	100	100	0	100	100	100	100	0	100
Total person-days										
per hectare	NA	35	176	0	52	3	95	36	0	27

The dominance of the female labor for wet rice and upland rice is consistent with the prevalence of ownership of upland fields and wet rice by women and also conforms to social norms regarding women's role in household food security.

## Years of completed schooling male and female, increased in the children of respondents' generation in both districts.







#### **References:**

Hayami Y, and Ruttan VW, 1985. Agricultural development: An international perspective. Baltimore: Johns Hopkins University Press.

Lastarria-Cornhiel S. 1997. Impact of privatization on gender and poverty rights in Africa. World Development, Vol. 25. No. 8. pp. 1317-1333

Suyanto S, Tomich TP, and Otsuka K. 2001. Land Tenure and farm management efficiency: The case of paddy and cinnamon production in customary land areas of sumatra. Australian Journal of Agricultural and Resource Economics 45 (3): 411-436.

Villamor GB, van Noordwijk M, Djanibekov U, Chiong-javier ME, and Catacutan D. Gender differences in land-use decisions: shaping multifunctional landscapes?. Current Opinion in Environmental Sustainability: 2014, 6:128-133.

Villamor GB, Destrianti F, Akiefnawati R, Amaruzaman S, and van Noordwijk M. Gender influences decisions to change land use practices in the tropical forest margins of Jambi, Indonesia. Mitig Adapt Strateg Glob Change: 2014, 19:733-755.

#### **Contact details:**

Noviana Khususiyah (n.khususiyah@cgiar.org)