



IMPACT OF RSPO CERTIFICATION TO ECONOMY, ENVIRONMENT AND SOCIAL OF OIL PALM PLANTATION WITH TANJUNG SEHATI SMALLHOLDER JAMBI, SUMATERA, INDONESIA



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BACKGROUND



- Tanjung Sehati Is Independent Smallholder Group
- Transmigration Programme (General transmigration program) Since 1983:
 - > The Transmigrant lands consist of;
 - ✓ LU I (1 ha),
 - ✓ LU II (2 ha)
 - ✓ Settlement (0,25 ha)
- 2009: SETARA has been doing empowerment to Independent smallholder group at Mekar Jaya Village

Problem Formulation

Since 2009: Background

- · Perception and insight,
- Implementation of oil plam plantation
- · Changing and develoving in Gapoktan Tanjung Sehati
- Smallholder certification

The study has been focused by arranging questions as follows:

- 1) How is the process of Certification carried out?
- 2) What is the impact of Certification implementation of Tanjung Sehati Smallholder on social, economic and environment condition.

Research Objectivies

- 1. To study the process of Certification implementation at Tanjung Sehati Smallholder
- To analyze the certification impact on social-economic and environment condition of Tanjung Sehati Smallholder

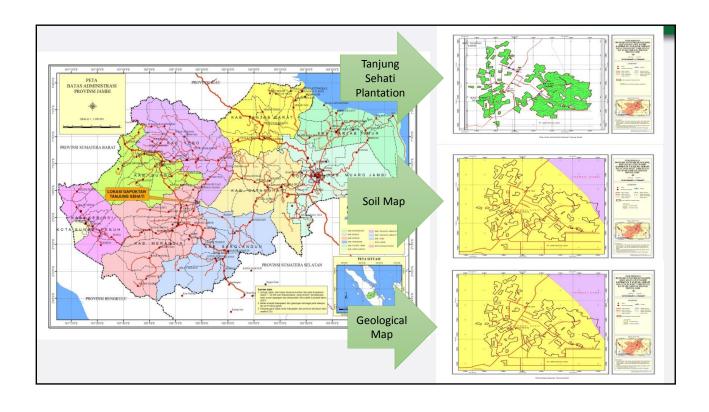


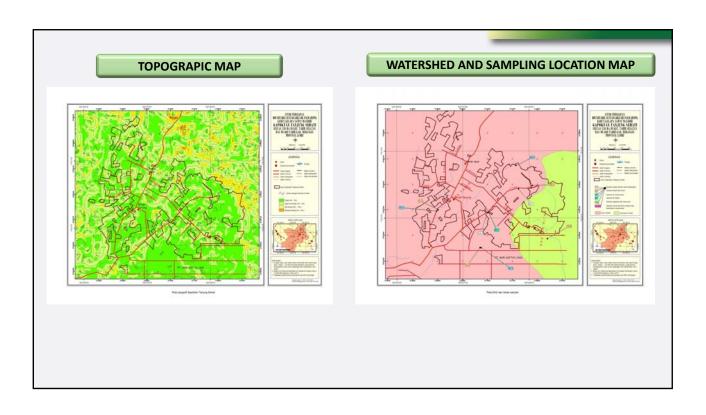












			LIST	of Samplin	g Locatio	113		
No	Code	Decimal d	egree	Degree minute		UTM Zo	ne 48S	Note
110	Code	х	у	Longitude	Latitude	X	У	Note
	AP-1	102,46348	-1,85358	102°27'48,51" BT	1º51'12,89" LS	217.802	9.794.921	Surface water sampling was taken from drainage oil palm path just before entering farmer group location area
2	AP-2	102,45466	-1,87401	102°27'16,77" BT	1º52'26,44" LS	216.824	9.792.659	Surface water sampling was taken from drainage oil palm path just after farmer group location area
3	AP-3	102,44347	-1,86496	102°26'36,48" BT	1º51'53,85" LS	215.577	9.793.659	Surface water sampling was taken from farmer palm oil area
	AT-1	102,45660	-1,86527	102°27'23,74" BT	1º51'54,97" LS	217.038	9.793.626	Surface water sampling was taken from household well
	TN-0	102,47137	-1,87182	102°28'16,94" BT	1º52'18,54" LS	218.685	9.792.904	Soil sampling was taken from dry land out side the smallholder area (controle)
	TN-1	102,46762	-1,85854	102°28'03,44" BT	1º51'30,74" LS	218.265	9.794.373	Soil sampling was taken from low land in side the small holder area (alluvial)
7	TN-2	102,45439	-1,87402	102°27'15,81" BT	1°52'26,46" LS	216.794	9.792.658	Soil sampling was taken from dry land in side the small holder area (inceptisols)
8	TN-3	102,44383	-1,86462	102°26'37,77" BT	1º51'52,63" LS	215.617	9.793.696	Soil sampling was taken from dry land in side the small holder area (ultisols)
9	UA-1	102,46411	-1,85934	102°27'50,79" BT	1º51'33,64" LS	217.874	9.794.283	Ambient air sampling was taken in side the small holder area
10	UA-2	102,45629	-1,86536	102°27'22,64" BT	1º51'55,28" LS	217.004	9.793.617	Ambient air sampling was taken from farm housing area

SAMPLING METHOD

	Sido Mulyo	Sido Makmur	Mandiri Jaya	Sumber Hasil	Sido Maju	Kemang Jaya
Member of Group	58	32	33	25	38	28
Number of respondent	19	10	11	9	12	9

Total of population is 214 house-hold

SLOVIN METHODE

$$n = \frac{N}{1 + N. e^2}$$
 $n = \frac{214}{1 + 214 * 0.1^2} = 68.15 \approx 69 \approx 70$

n = Sample Number

N = Population

E = Deviation (error; f = 10%)

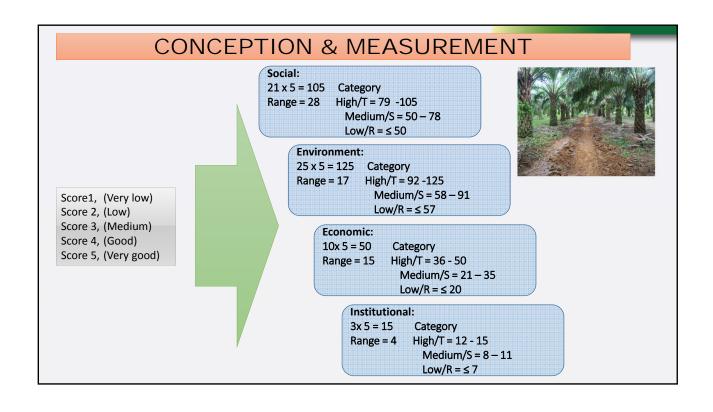
70 household

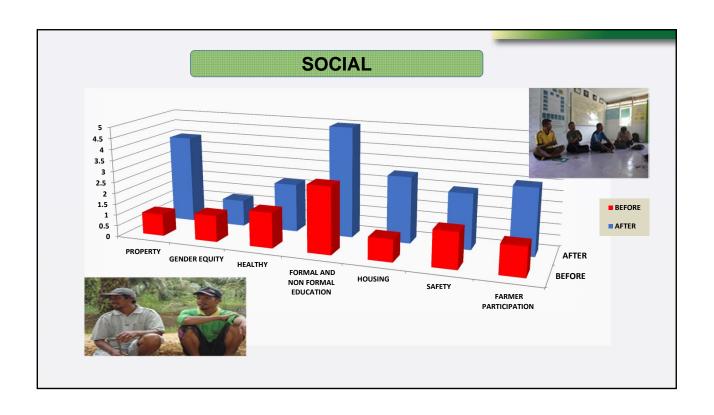
ANALYSIS METHOD

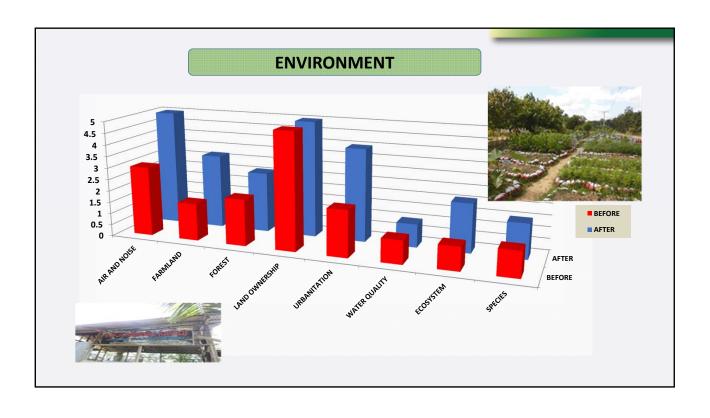
- Description
- Tabulation and scoring, with Statistic Non Parametric "Sign Test"

$$X^{2} = \frac{(|n_{1}-n_{2}|-1)^{2}}{n_{1}+n_{2}}$$

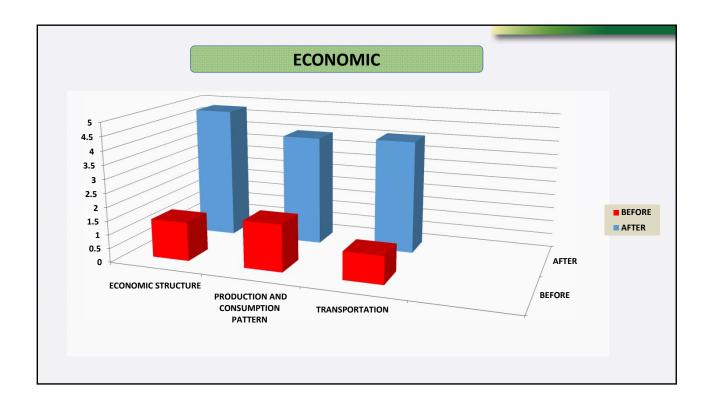
 Laboratory Analysis (air, water, and soil quality, and aquatic biota)

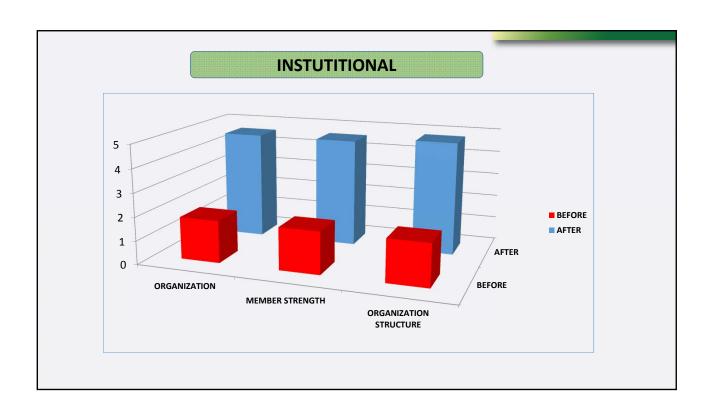






	Land Quality Sr	nallholder Tar	iung Seha	ati and Vi	illage Cor	ntrol		
			.,		На			
No.	Parameter	Satuan	TG0	TG 1	TG 2	TG 3	TK 1	TK
1	рН							
	- H2O	-	4,6	4,8	4,7	4,6	4,5	4
	- KCI	-	3,8	3,7	3,7	3,6	3,7	4,
2	C. Organik	%	1,63	2,21	1,81	1,76	0,98	1,:
3	N. Total	%	0,16	0,24	0,15	0,16	0,11	0,
4	Rasio C/N		10,2	9,2	12,1	11	8,9	9
5	P tersedia	ppm	4,6	4,1	3,8	3,5	2,3	1,
	Basa dapat ditukar (Ekstrak NH4Asetat 1,0 N pH 7							
	- Ca	me/100 gr	2,15	2,89	2,51	2,89	4,21	3,:
	- Mg	me/100 gr	1,03	1,92	1,43	1,32	1,78	1,4
	- K	me/100 gr	0,19	0,24	0,21	0,19	0,46	0,4
	- Na	me/100 gr	0,11	0,09	0,09	0,08	0,2	0,1
	Total	me/100 gr	3,48	5,14	4,24	4,48	6,65	5,1
	ктк	me/100 gr	12,2	16,5	14,2	14,6	18,6	16
	КВ	%	28,6	31,1	29,8	30,7	35,7	31
7	Kemasaman							
	- Al – Tukar	me/100 gr	2,13	1,94	1,77	2,41	1,92	2,6
	- H – Tukar	me/100 gr	1,82	0,96	1,14	1,35	1,06	1,4
8	Tekstur		Liat	Liat	Liat	Liat	Liat	Lia
	Pasir Kasar	%	1,6	1,6	0,9	2,3	0,6	1,
	Pasir Sangat Halus	%	4,8	2,6	2,4	2,7	1,2	2,
	Debu	%	29,5	23,3	32,9	29,6	26,9	41
	Liat	%	64,1	72,6	63,8	65,4	71,3	54
9	Permeabilitas	cm/jam	1,28	0,98	1,35	2,04	1,39	2,3
10	BV	g/cm3	1,32	1,14	1,28	1,3	1,15	1,3





THE RECA	APITULATION OF	IMPACT ANALYSIS	
Social	+		=
Tabel X ² .05 = 3.841	> Table X².05	< Table X ² .05	= Table X ² .05
Property	68.01429		
Gender equity			
Healthy	67.01449		Very translation
Education Formal & Non Formal	68.01429		
Housing	68.01429		
Safety	55.01754		
Participation of Farmers	67.01449	16.22	
Environment	+		
Air and noise	68.01429		
Farm land	68.01429		
forest	68.01429		
Land owner ship	Street Street		~
Urbanization	68.01429		
Water quality			~
Ecosystem	63.01538		
Species	50.76563		

Economic	.	- 10		- A
Economic Structure	68.01429			
Consumption Patterns Of Production	68.01429			
Transportation	68.01429			
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	NAME OF TAXABLE PARTY.	A RESIDENCE OF SECURITY AND	elikane Subject	stand of planting 155
Institutional	+	-		-
	+ 67.01449			-
Institutional				=

CONCLUSION AND RECOMENDATION

CONCLUSION

- 1). Two Important determinants in certification proses:
- · Farmer group motivation to be independent farmer
- There should be a powerful partner in helping farmer to be independent farmer and receive RSPO Certificate
- 2). There is a positive impact of RSPO certificate on social aspect which consist of: property equality, environment health, formal and non formal education, housing, safety, and farmer participation; economy aspect which consist of economic structure, production and consumption pattern, and transportation; and institutional aspect which consist of organization, member strength and organization structure; environment aspect which consist of air and noise, land, forest, ecosystem and species.
- Some aspect that has not shown a significant impact were gender, water quality, and land ownership.
- 4) The other aspect that potentially negative to the farmer group was the audit cost which is too expensive for the farmer.

RECOMMENDATION

- 1. It is important to include gender consideration in RSPO aspect
- 2. It is necessary to prepare some fund in audit cost.
- 3. It needs to prepare adequate fund to support small holder in RSPO certification proses in empowerment scheme

