

The Political Economy of Fire and Haze Herry Purnomo

APFW 2016

Fire and haze: Politics, economics and landscape transformation 23 February 2016, Clark, the Philippines





Area	Peat (ha)	Non-peat (ha)	Total	%	
Sumatra	267,974	565,025	832,999	40%	(LAPAN, 2015)
Kalimantan	319,386	487,431	806,817	39%	•
Papua	31,214	321,977	353,191	17%	
Sulawesi		30,912	30,912	1%	
Bali and Nusra		30,162	30,162	1%	
Jawa		18,768	18,768	1%	
Maluku		17,063	17,063	1%	
	618,574	1,471,338	2,089,912	100%	(NASA 2015)
	30%	70%			
Legend - Fee Epsts 2018			Indian 250 km	M A Ocean	L A Y S I A

FIRE AND HAZE 2015



- 2.6 million ha of land burnt and \$15-30 billions of economic losses
- 43 million people exposed to haze
- ½ million victims of acute respiratory infections
- 19 people reported dead
- 25,000 fire and security personnel deployed to suppress fires



The Economy

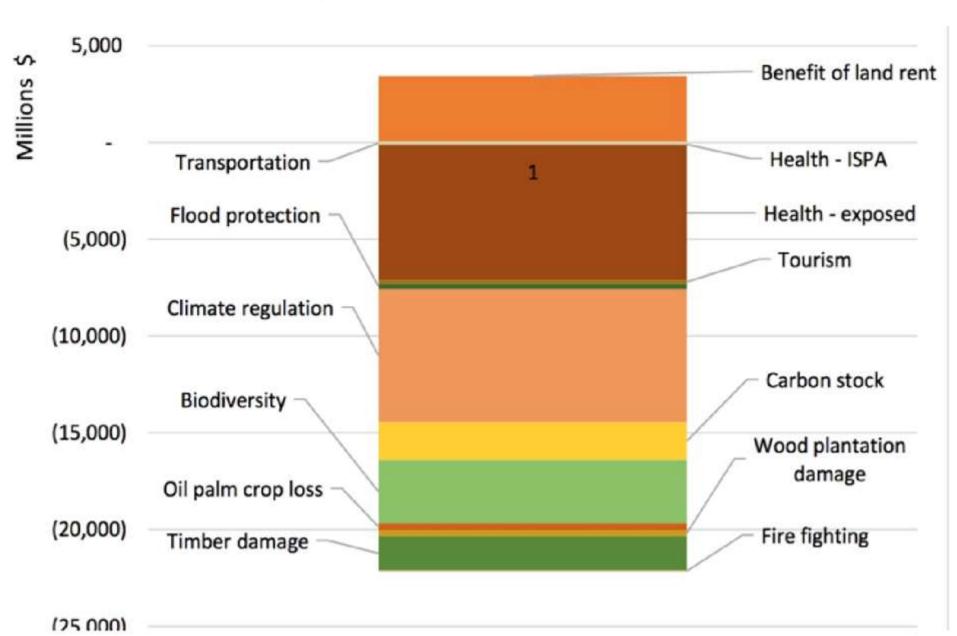




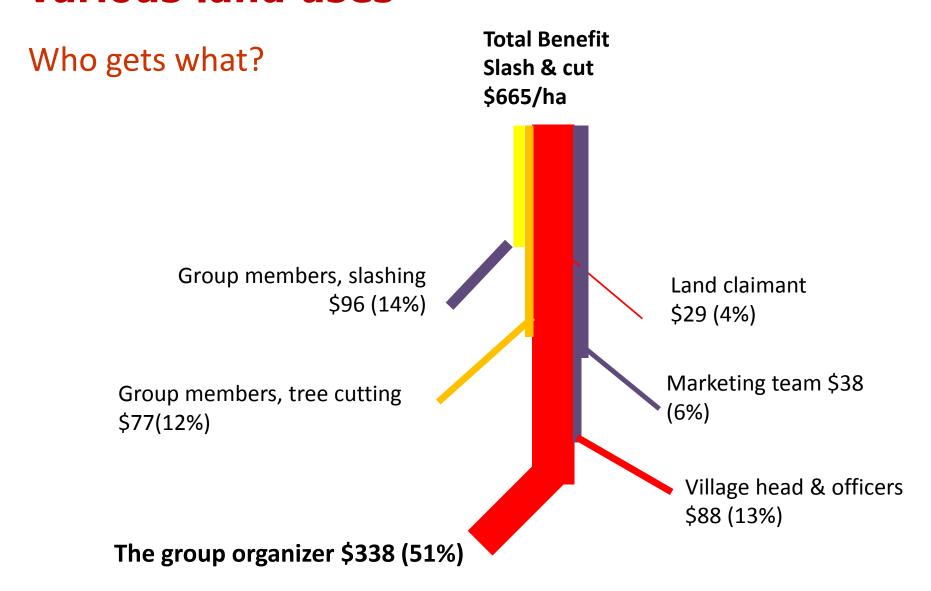




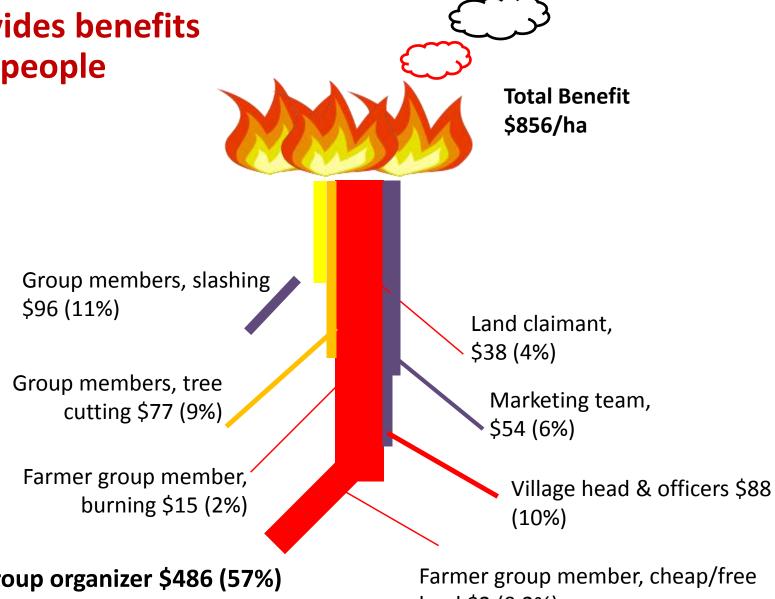
Costs and Benefits



Unsecured tenure: Illegal land market in various land uses



Fire provides benefits to some people



The group organizer \$486 (57%)

land \$2 (0.2%)

Three-year oil palm



Total Benefit \$3,077/ha

Group members, oil palm growing wage \$147 (5%)

Group members, slashing \$96 (3%)

Group members, tree cutting \$77 (3%)

Group members, burning \$15 (1%)

The group organizer \$1567 (51%)

Group members, cheap/free land \$2 (0.1%)

Land claimant, \$38 (1%)

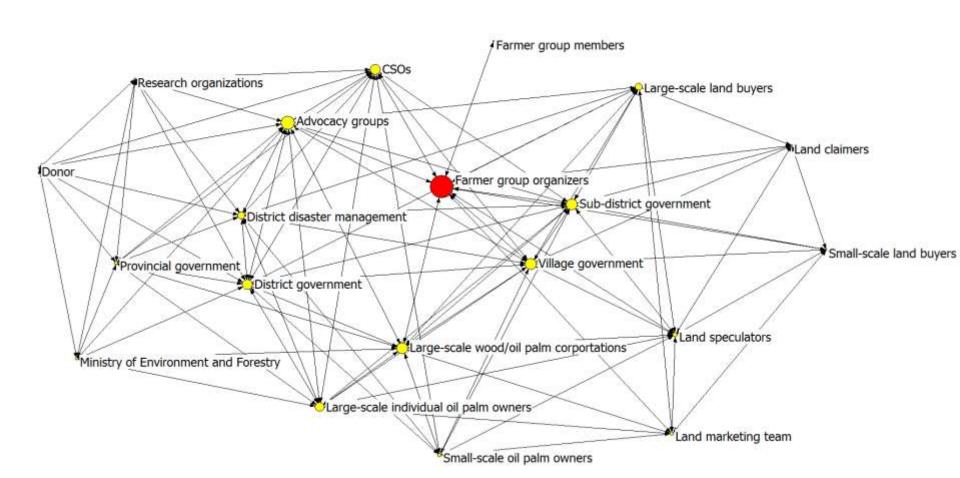
Marketing team, \$54 (2%)

Village head & officers \$88 (3%)

Oil Palm development \$992 (32%)

Patronage Network - Illegal Institution

Local elites/*cukong* who organize farmers are the most influential actors in land transaction.



The Politics

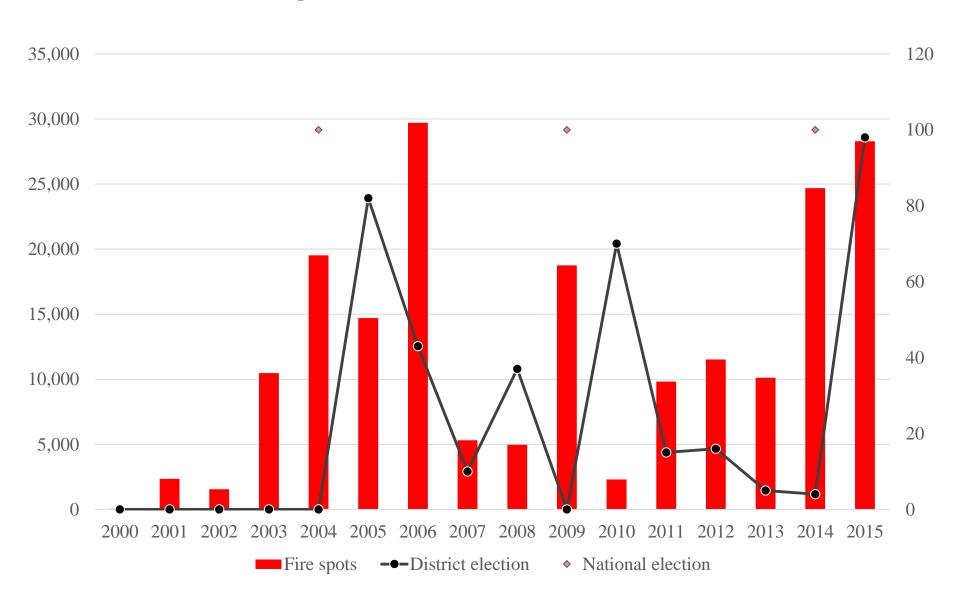








Hotspots and District Elections



Model

Log $F_t = 0.937 \log F_{t-2} + 0.0219 E_{t+1}$

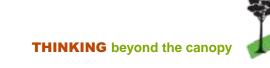
- Fire hotspots in year t (F_t) is a function of hotspots in year t-2 and next year local election (E_{t+1})
- Average error 9%
- Riau migrants: Land for Votes



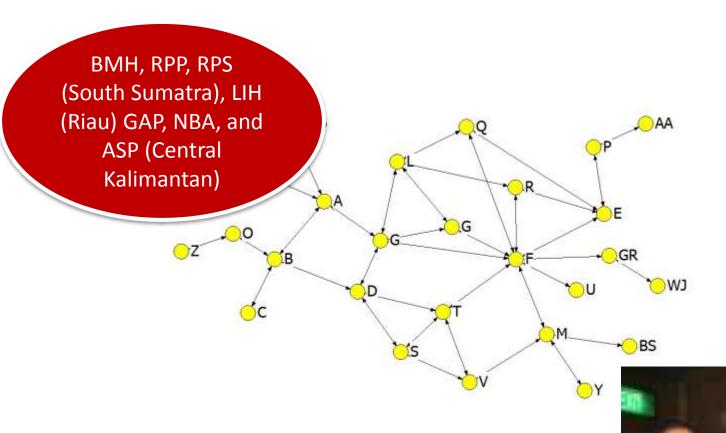








Corporate actors connected to elites at various levels



http://news.liputan6.com/read/2321284/11-perusahaan-jaditersangka-pembakaran-hutan-dan-lahan









Other land

uses (APL)

Forest area

Land uses vs.	Hotspots	
Landucas	Extent	
Land uses	На	%
Logging concession	12.501.285	12

Wood plantation

Oil palm

plantation

Overlapped

Total

and state lands)

APL (community, private

Forest area (Protected

Data sources: NASA, WRI, Ministry of Environment and Forestry Indonesia

and conservation areas)

Corporation managed

land (34% of land

uses; 45% hotspots)

Private, community

managed land (66%)

land uses and 55%

hotspots)

and government

anu	uses	V5.	потгрогг	
usos			Extent	

i	Number
	Hotspo

545

3,297

1,589

750

260

4,963

3,057

14,459

12

8

9

3

2

29

36

100

8,443,633

8,951,386

2,791,974

2,374,943

29,876,742

36,851,699

101,791,661

%

23

11

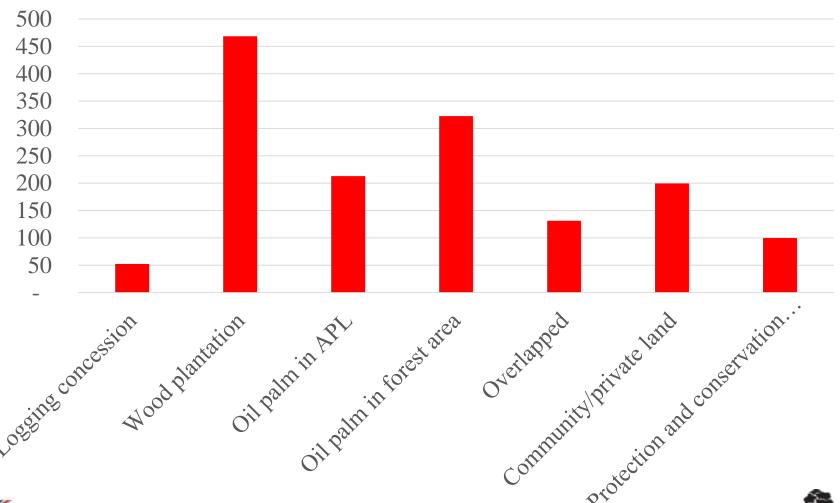
5

21

34

100

Fire Density (hotspots/million ha)









Fire and haze project actions

- Fire and Haze Expert Meeting (Aug 2015)
- Conducting high-level National Policy Dialogue (Aug 2015)
- Communicating to local, national and international mass media
- Presenting/hearing with parliament, NGOs and governments.
- Capacity building of fire prevention at **Dompas** Village, Riau (2015-2016)
- Presenting at Global Landscapes Forum, Paris (Dec 2015) and at Asia Pacific Forestry Week, the Philippines (Feb 2016)
- Riau-based Forum Negeri Bebas Jerebu
 - Establishment (Nov 2015)
 - Dialogue and training (Feb 2016)









Strengthening Actions

- Raising accountability of public institutions and government.
- Reforming land use policies and spatial planning.
 - Peat collaborative water management upstream and downstream.
- Public investments (healthcare, job creation, incentives for non-fire agriculture).
- Engaging banks and financial institutions to curb inappropriate investments
- Social movement to fight against bad actors







