Vulnerability Assessment of Smallholders in Pagar Alam, Indonesia

A Report prepared by Sacha Amaruzaman & Isnurdiansyah September 2019



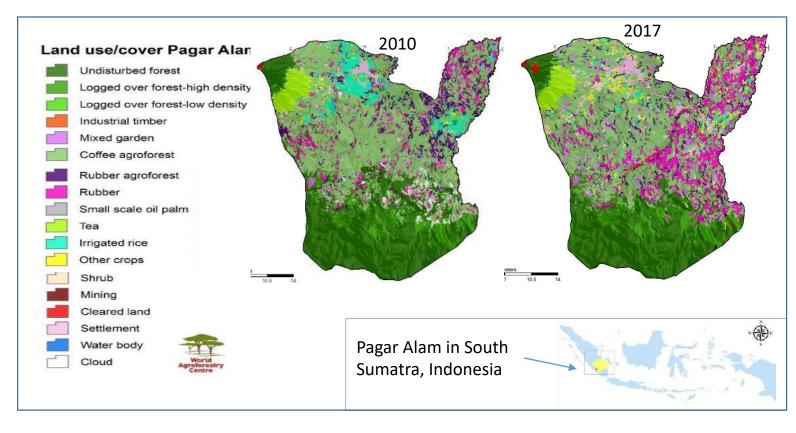




Pagar Alam Upland Region - Indonesia

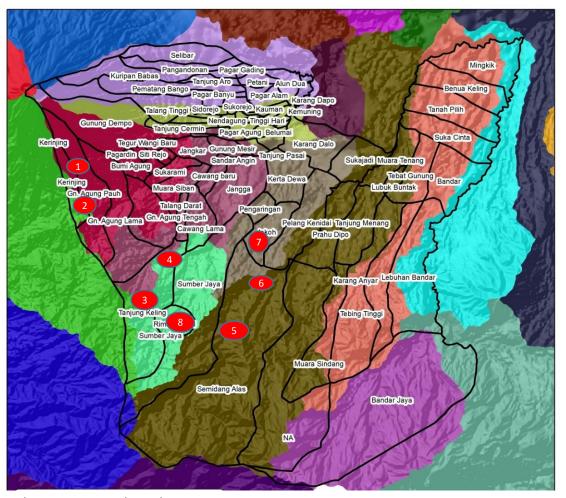


- 68,000 ha, 38% protected forest area*
- Upstream area of Musi Watershed of South Sumatra
- 135,000 persons, 70 % work in agriculture
- GDP from agriculture: 23% of the total GDP



Vulnerability Assessment

- In-depth interviews (25 persons)
 - 11 government representatives
 - 13 Community leaders
- Focus group discussions (8 upland villages)
 - Female and male smallholders groups
 - 173 participants (132 male and 91 female smallholders)



Colours represent sub-catchments

Village boundary



Major issues in Pagar Alam

1. Forest tenure conflict

Tenurial conflict between farmers and authority in the forest border Coffee and horticulture smallholders 'encroached' the protected forest

2. Reservoir construction for ricefield irrigation

The government plans to facilitate land-use conversion of 3,200 hectares coffee agroforestry to irrigated rice fields (5% of the district area)

3. Low quality coffee product

No incentives for farmers to produce high quality coffee through improved farming practices.

Seasonal crops recently replaced coffee farming, including in the sloping land



Landscape Characteristics

Key-informant interviews & observation







Target respondents:

- City government authorities
- smallholders (local and in-migrants) with different farming systems

Scope of interviews:

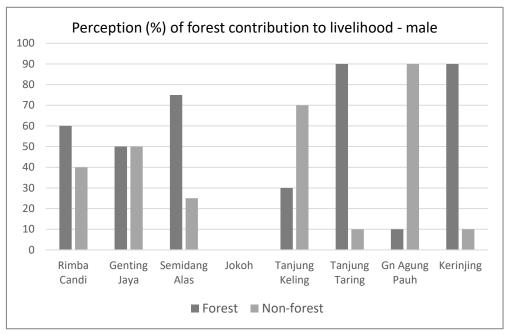
- Farm livelihood activities and strategies of farmers with different farming systems
- Forest utilization
- Existing agriculture and environmental issues
- Major policies in natural resources management and agriculture
- Socio-economic and environmental shocks and stressors (vulnerability)

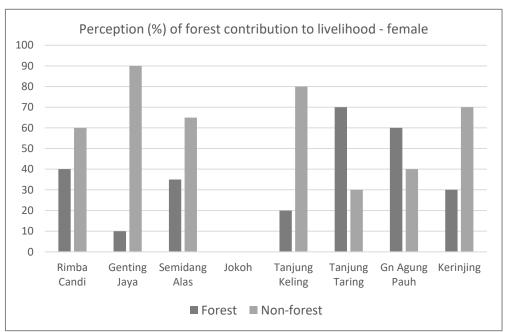
Livelihood strategy

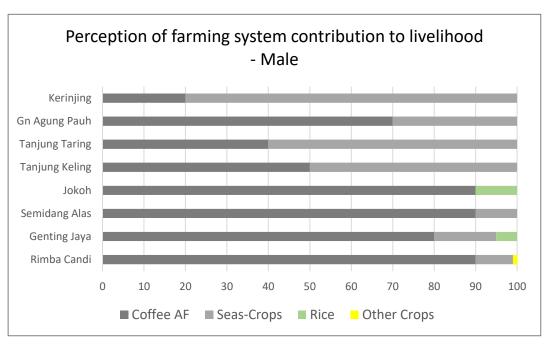
Focus Group September 2018

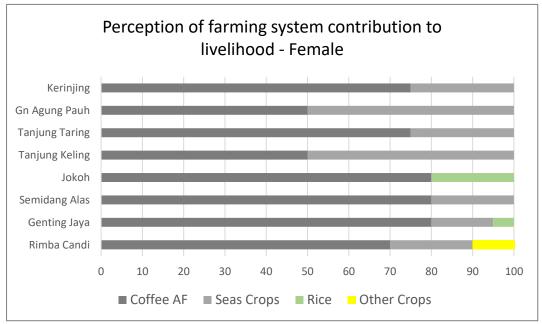
- Predominantly coffee farming, although gradually replaced by seasonal crops
- Farmers prefer both farming systems,
 although land availability limit diversification
 strategy
- Overall forest-land contribution is diminished
- Female perceive less forest-land contribution to livelihood
- KII and FG findings: farmers gradually prefer short-term income (seasonal crops) than coffee











<u>Vulnerability</u>

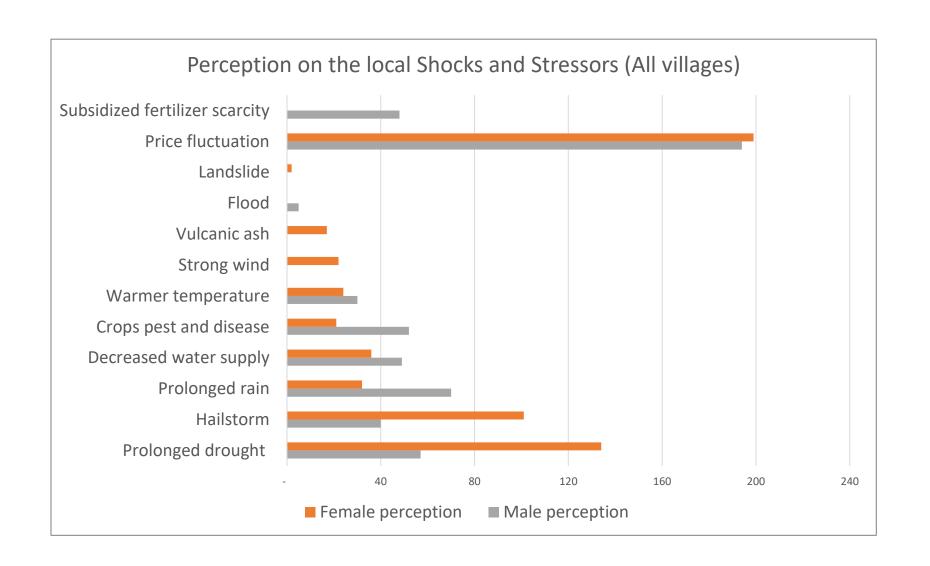
FOCUS GROUP 16 – 26 September 2018



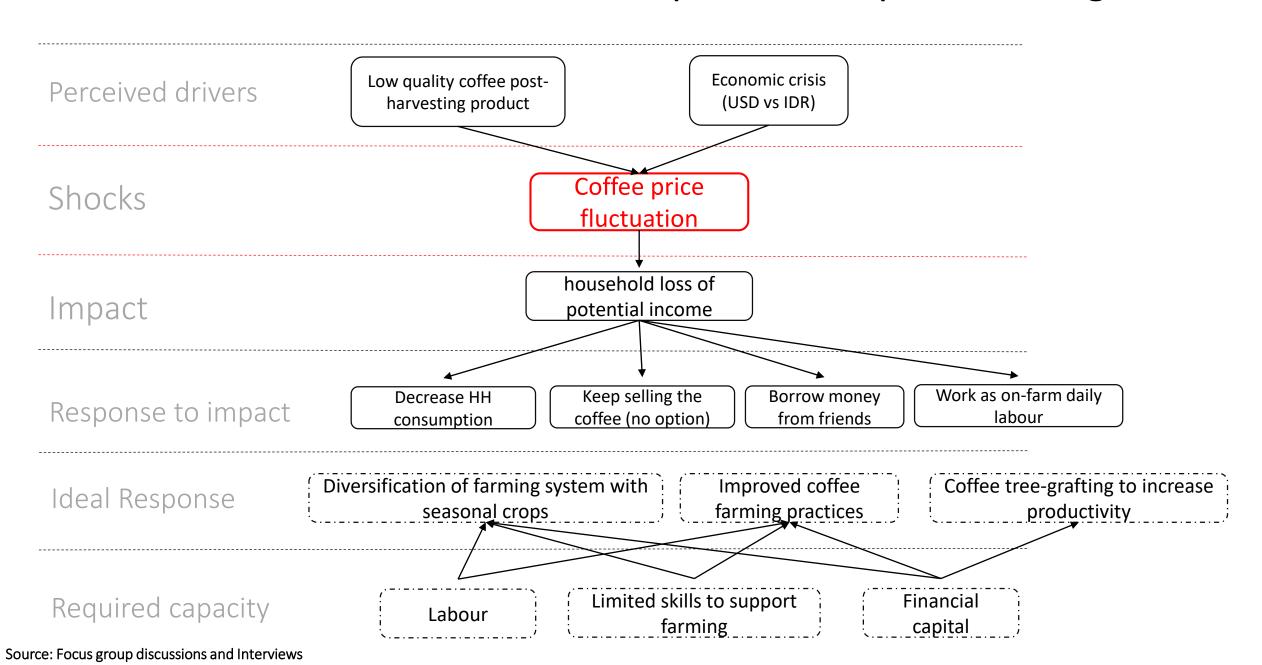




- Major shocks come from commodity price fluctuation that occur more frequently
- Other major shocks indicate the changing climate
 - Female perceived prolonged rainy season
 - Male perceived prolonged drought & more frequent hailstorm
- Seasonal crops as the alternative responses to shock



Coffee smallholders' shocks, drivers, impact and responses in Pagar Alam



Conclusion

- In Pagar Alam, smallholders' dependency to forest and forest lands were gradually diminished. The 'encroached' protected forest areas were still cultivated mainly with tree-crops, and recently gain support from the government through the Social Forestry program
- Coffee price fluctuation and changes in climate pattern, such as prolonged drought and rainy season, were perceived as the major shocks that negatively influence smallholders livelihood
- There is a tendency for replacing coffee agroforestry with vegetable crops, including on the sloping land, to pursue short-term profit
 - The conversion could contribute to exacerbate the changing climate and further risks, such as soil-water degradation
- Coffee smallholders were dependent to the local middlemen, with a very limited bargaining power towards the price, due to their coffee production quality

Recommendation

- Smallholders require incentives to maintain their coffee agroforestry and reduce the increasing preference towards intensive vegetable farming
- Improve the coffee farming practices, to achieve better quality and productivity and cope with changing climate pattern
- Smallholders need to access better coffee market, raising awareness about the benefits and potential profits from sustainable coffee farming
 - ICRAF and NedCoffee are currently working with local champion farmers to pilot the capacity building activities in Pagar Alam
 - A workshop on sustainable coffee for local coffee stakeholders in Pagar Alam would be organised to raise stakeholders' awareness and initiate entry point to a wider coffee market. This workshop invited Dr Surip Mawardi, an international Coffee Expert from Starbucks Farmers Centre as the resource person, representing global coffee market