

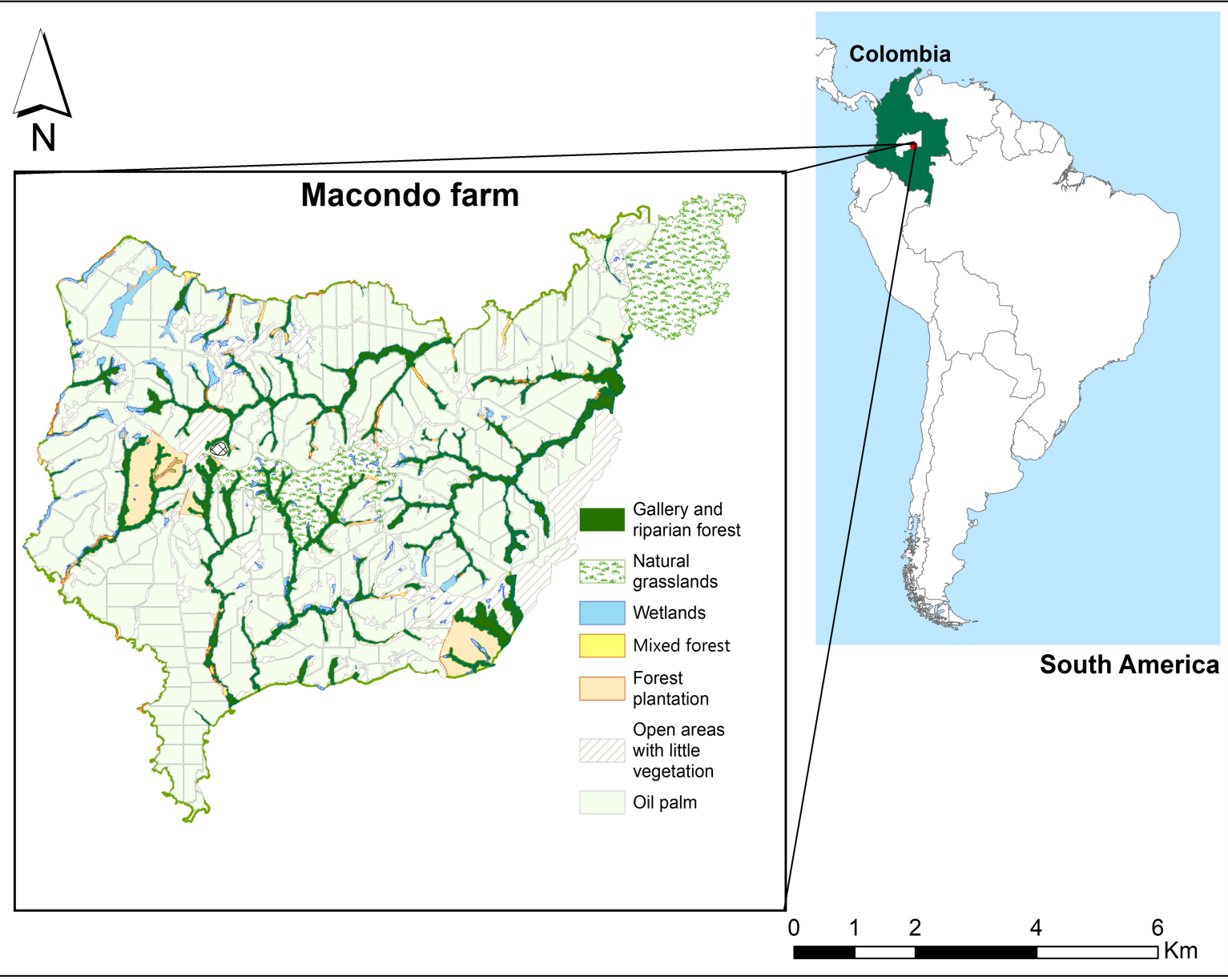
WORKERS MAP SOCIAL LANDSCAPE VALUES IN A COLOMBIAN OIL PALM PLANTATION

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Introduction

- Humans are participants in landscape-thinking, feeling and acting giving meaning to landscapes and places
- Humans attach value to landscapes, even an “already-created” landscape such as the Macondo farm.
- The Macondo farm consists of natural habitats (e.g. gallery and riparian forest) and oil palms.



To answer the following questions:
1) which social landscape values workers assign to the land covers present in the farm?;
2) Where are the social landscape values localized in the farm?

Methods

- Field research Oct. 2018 - April 2019 (Fig 2).

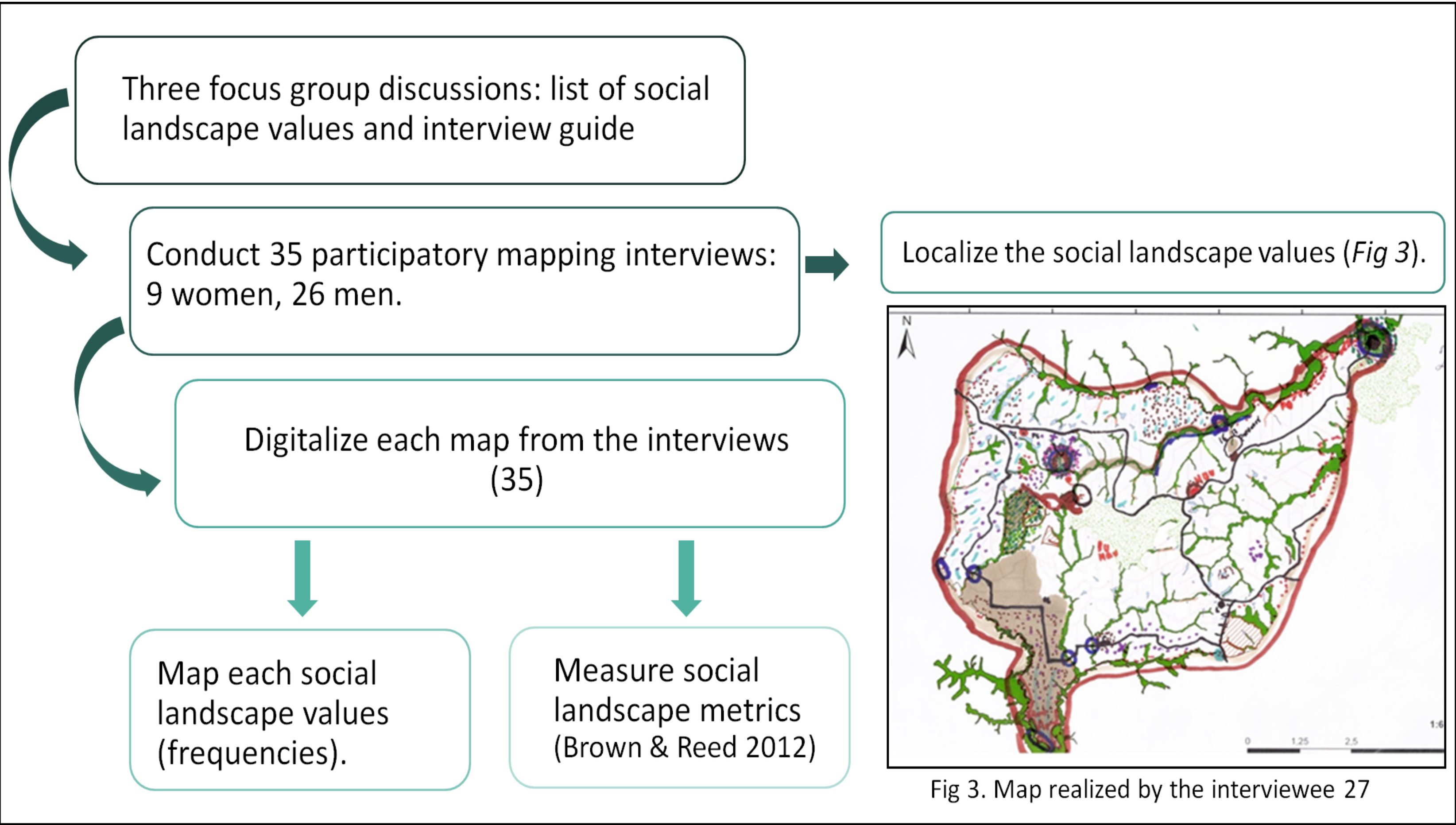


Fig 2. Methods followed

Results

- The 35 interviewee mentioned 511 times SLV within the land covers, in order of importance, starting with highest total scores of the social landscape metrics : shade, flora , fresh water, contemplation of fauna, beauty, food, take a rest, biological control, and soil formation (Table 1).
- The maps illustrate the frequencies of each social landscape value in relation to the land covers (Fig 4).

Table 1. Social landscape metrics

Social landscape metrics	Land covers				
	Gallery and riparian forest	Epiphytarium	Secondary or transition vegetation	Mixed forests	Natural grassland
Intensity	(b) 85.0	67.0	9.0	8.0	26.0
Richness	9.00	9.00	5.00	3.00	6.00
Shannon Diveristy index SDI	(c) 1.86	(a) 2.05	1.06	0.90	1.11

Table 1. Social landscape metrics (continue)

Social landscape metrics	Land covers				Total
	Water bodies	Open spaces with little or no vegetation	Forest plantation	Oil palm	
Intensity	74.0	31.0	36.0	(a) 175.0	511.0
Richness	8.00	7.00	7.00	9.00	9.00
Shannon Diveristy index SDI	(c) 1.37	1.77	1.63	(b) 2.04	0.81

- Gallery and riparian forests, natural grasslands, and wetlands share more than two social landscape values biological control, observation of fauna, fresh water, and shade (Fig 4).

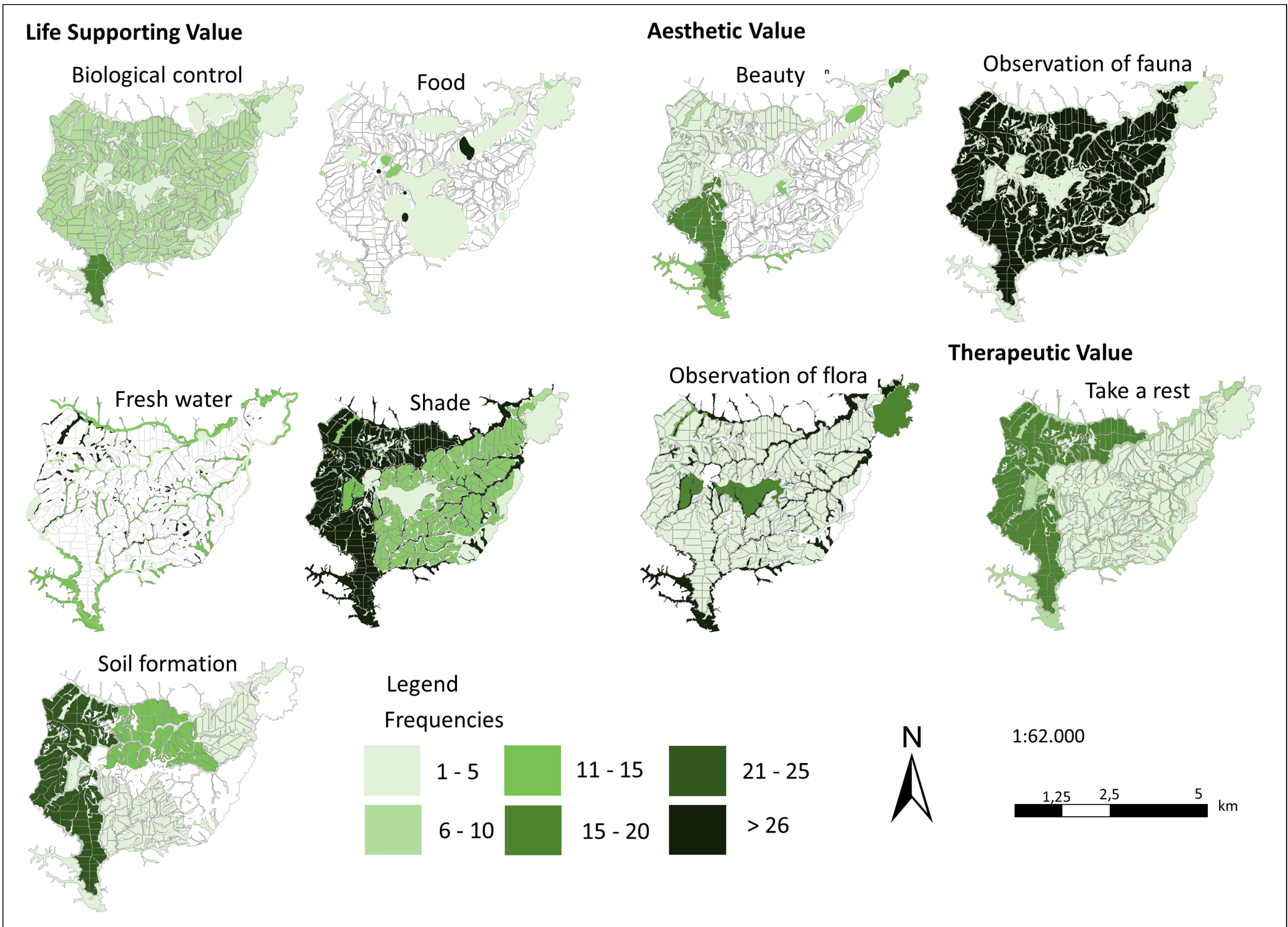


Fig 4. Representation of the social landscape values on the farm (Life supporting values, aesthetic value and therapeutic value)

Conclusions

- To date, no previously study has used participatory mapping in an oil palm plantation. In this study we found that workers do identify and use social landscape values through their interaction with the Macondo farm.
- Workers have developed a sense of place attachment, generating feelings and bonds for a place (i.e. Macondo farm) through social interaction and recognition of places that fulfil their lives (e.g. work).

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Reference: Brown GG and Reed P (2012). Social Landscape Metrics: Measures for Understanding Place Values from Public Participation Geographic Information Systems (PPGIS). Landscape Research 37(1): 73-90. doi 10.1080/01426397.2011.591487



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