

Supplementary material for: Gomes, I. da P., Nunes, S., Cavalcante, R. B. L., & Almada, H. K. S. Challenges and opportunities for environmental regularization in southeastern Pará, Amazon, based on local actors' perception. *Desenvolvimento e Meio Ambiente*, 67, 1-25, 2026. <http://doi.org/10.5380/dma.v67i.95400>

Supplementary materials

SUPPLEMENTARY MATERIAL 1 – Profile of rural landowners or squatters interviewed in the municipalities of Canaã de Carajás and Parauapebas.

Profile	Landowners or squatters (n=19)	
	Quantity	Frequency
Gender		
Male	16	84.2
Female	3	15.8
Municipality		
Canaã dos Carajás	8	42.1
Parauapebas	11	57.9
Education		
No education	1	5.3
Complete primary education	1	5.3
Incomplete primary education	8	42.1
Complete secondary education	4	21.0
Technical	1	5.3
Incomplete higher education	1	5.3
Complete higher education	2	10.5
Postgraduate degree	1	5.3
Profession		
Only farmer	14	73.7
Farmer/Retired	1	5.3
Farmer/Market Vendor	1	5.3
Farmer/Civil Servant	1	5.3
Farmer/Machine operator	1	5.3
Rural producer/Veterinarian	1	5.3

SUPPLEMENTARY MATERIAL 2 – Profile of environmental professionals who responded to the *online* form.

Profile	Environmental professionals (n=30)	
	Quantity	Frequency
Gender		
Male	18	60.0
Female	12	40
Municipality		
Ananindeua	6	20.0
Belém	16	53.3
Capanema	1	3.3
Conceição do Araguaia	3	10
Marabá	1	3.3
Paragominas	2	6.7
Redenção	1	3.3
Education		
Technical course	1	3.3
Higher education	6	20.0
Incomplete postgraduate degree	4	13.3
Postgraduate degree completed	19	63.3
Profession		
Environmental Analyst	1	3.3
Analyst in Agrarian Reform and Development - Forest Engineer	1	3.3
Biologist	1	3.3
Geotechnology/Environmental Coordinator	1	3.3
Agricultural Engineer	6	20
Environmental Engineer	2	6.7
Cartographic Engineer and Surveyor	1	3.3
Forest Engineer	12	40
Geographer	2	6.7
Environmental Manager	2	6.7
Environmental Technician	1	3.3
Field of activity		
Self-employed - Specialized Environmental Consulting	6	20
Private Companies	11	36.7
Private Companies and Government	1	3.3
Private Companies and Universities/Research and Teaching Institutes	1	3.3
Government	8	26.7
Third sector	2	6.7
Third sector and self-employed - Specialized environmental consultancies	1	3.3
Do you work in environmental compliance?		
No	8	26.7
Yes	22	73.3

SUPPLEMENTARY MATERIAL 3 – Profile of SEMAS technicians who responded to the *online* form.

Profile	SEMAS technicians (n=16)	
	Quantity	Frequency
Gender		
Female	13	81.3
Male	3	18.8
Municipality		
Ananindeua	4	25.0
Belém	12	75
Education		
Higher education	6	37.5
Incomplete postgraduate degree	2	12.5
Complete postgraduate studies	8	50.0
Position		
Technical advisor	1	6.3
Director	1	6.3
Agricultural engineer	1	6.3
Cartographer and Surveyor Engineer	1	6.3
Manager	1	6.3
Agricultural management technician	1	6.3
Environmental management technician	10	62.5
Do you work in environmental regulation?		
No	2	12.5
Yes	14	87.5