

SUPPLEMENTARY MATERIAL

Supplementary Material S1

To assess the diversity of livelihoods within non-timber forest products (NTFPs) extractivism landscapes, we mapped Traditional People and Communities (TPC), as points, lines and polygons, that represent the use of NTFPs by traditional communities, such as Extractive Reserves (RESEX), indigenous lands, quilombola communities and family farming, among others, in rural landscapes across all six Brazilian biomes (Figure S1). We found that these traditional livelihoods are geographically located in Amazon, Cerrado, Caatinga and Atlantic Forest biomes. Amazon biome concentrate indigenous lands, riverside communities also RESEX, home to extractivists families. Caatinga and Cerrado biomes concentrate livelihoods attached to specific NTFPs such as Babaçu nut and communities that have their ways of living associated with Caatinga and Cerrado's ecosystem such as caatigueiros, veredeiros and magabeiras. Small farms concentrate in Atlantic Forest biome, as well as cipozeiros and pomerano people.

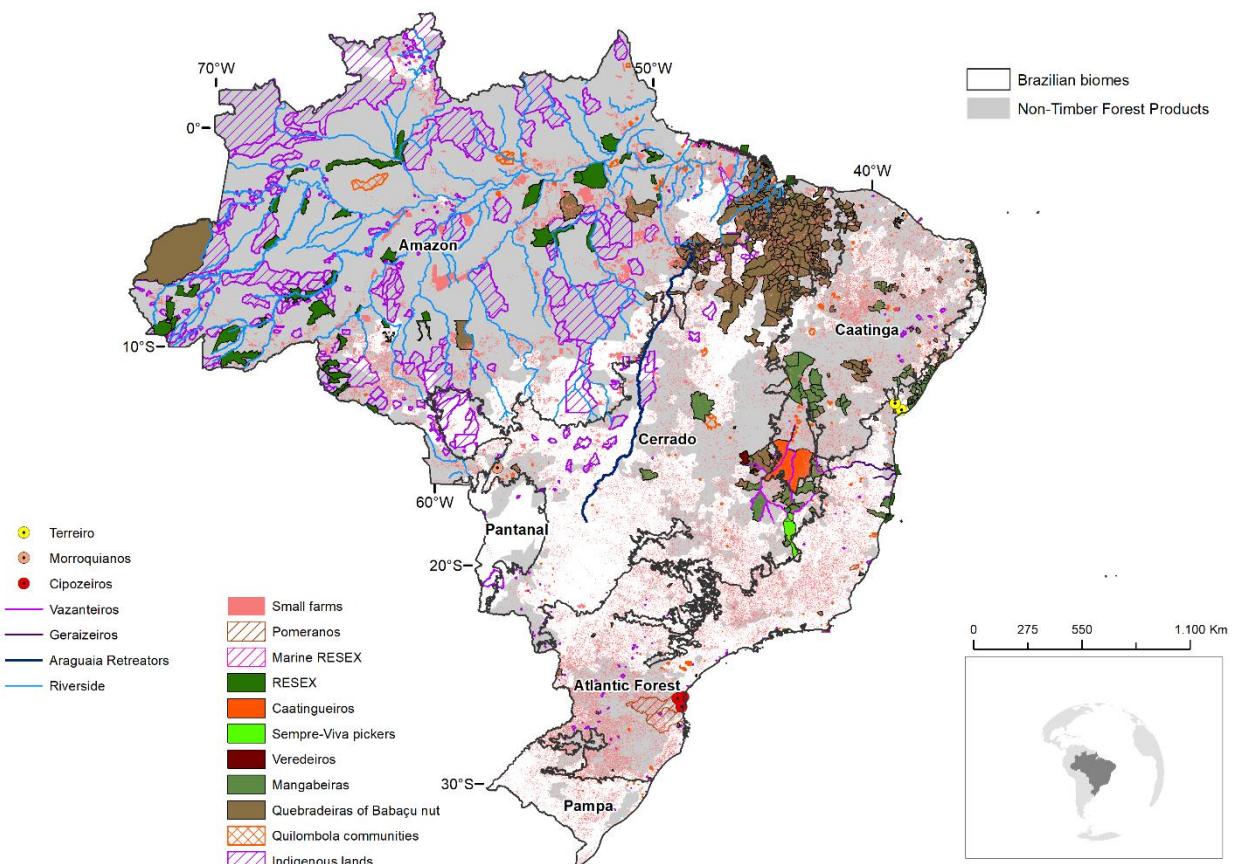


Figure S1. Spatial explicit location of sociobiodiversity in Brazilian biomes.

We also acquired information about the main NTFPs in quantity produced in the period of six years, from 2013 to 2019, and conducted a literature review to characterize the sociobiodiversity associated with these NTFPs (Table S1).

Table S1. Livelihoods associated with NTFPs in Brazilian biomes.

Biome	NTFPs / Total quantity produced (Tons)	TPC and use of NTFPs Decree Nº 6.040/2007	Other TPC Decree Nº 6.040/2007	Source
Amazon	Açaí 1.273.369 Tons	Extractivist carrying out extraction of plant species as economic and subsistence activity such as in RESEX practice the Sustainable use and management of Açaí.	Araguaia retreators, live on the banks of the Araguaia River, between Mato Grosso and Tocantins state.	[1], [2], [3], [4], [5], [6], [7], [8], [9]
		Quilombola communities, remnant from the old quilombos, formed during the slavery period, ancestral use of Açaí as food, traditional festivals theme.		
		Family farming use Açaí in Food security and in agroforestry systems.		
		Indigenous lands, as the first inhabitants of Brazil, such as Trombetas-Mapuera e Nhamundá-Mapuera people produce the “Açaí wine”, used in rituals, legends and stories.		
	Brazil Nut 245.518 Tons	Extractivist in RESEX called <i>Castanheiros</i> practice sustainable use and management	Riverside communities integrated with human life and the river cycle.	[10], [11], [4], [12], [13], [14], [15]
		Family farming use as base of local gastronomy and food security.		
		Source of income for Quilombola communities, traditional element of ethnic identity		
		Indigenous lands use in food security using ancestral family extraction methods and subject of legends and stories.		
Caatinga	Carnaúba (wax and powder) 111.593 Tons	Quilombola communities use the straw as raw material for crafts and the wood in house roofs	Coastal and marine extractivist extract plant and/or animal species as economic and subsistence activity. And Caatingueiros, social group in the northern region of Minas Gerais, completely linked to Caatinga biome, in their production and their way of life. And Mangaba pickers, are women who support of their families.	[16], [4], [17]
		Family farming use the straw for income generation from crafts such as ropes, hats, bags.		
		Indigenous lands use for food security, crafts and house structures.		

Cerrado	Babaçu 273.887 Tons	Quilombola communities also use for food security, home building, crafts, fuel and medicine.	“Sempre-viva” pickers, linked to the activity of collecting dried flowers native to the Brazilian Cerrado. Geraizeiros, as the way of life aligned with the characteristics of the Cerrado in the creation of animals, plantations and extractivism. Vazanteiros, use ebb lands on the banks of the São Francisco River to practice subsistence agriculture. Morroquianos, as small farmers living in Morraria territory. Also, Veredeiros with identity linked to the ecosystem of Veredas in planting and extraction of diverse items	[18], [19], [20], [4], [21].
		Family farming practice oil extraction, flour production performed by women called <i>Babaçu coconut breakers</i> ; They call the Babaçu the “mother tree”.		
	Pequi 68.940 Tons	Indigenous lands use for food security, house structures, cosmetic production, rituals. Quilombola communities use as medicine for cold and respiratory diseases. Family farming use in Agroecosystem management and food security. Indigenous lands use as source of income and Kĩsêdjê of Xingú use native Pequi to restore landscapes.		[22], [23], [24], [25], [4]
Atlantic Forest	Mate-Herb 2.414.007 Tons	Quilombola communities use of Mate-Herb in medicine Indigenous lands use daily and in rituals, medicine, prayer.	Cipozeiros practice the extraction of Cipó to make baskets and household items. Meanwhile, Pomerano are traditional people (not communities), with own language, focus on work, family and religion. And Terreiro, populations, mostly of Afro-Brazilian origin, linked to religious communities of African origin.	[4,26], [27], [28], [4], [29], [30] [31], [32], [33], [4]
	Araucaria seed 60.403 Tons	Family farming produce in Faxinal system, a socialized use of land and common memory, present in the history of the territorial occupation of the state of Paraná, called <i>Faxinalenses</i>		
	Piaçava 192.159 Tons	Quilombola communities use for food security. Family farming use the high nutritional value in food security and traditional gastronomy Indigenous lands for food security of ethnicity Kaingang and heritage symbol.		
Pantanal	Pequi 63 Tons	In Quilombola communities, Men called <i>tiradores</i> are responsible for the harvest and fiber cleaning is done by women called <i>catadeiras</i> ; Piaçava coconut is used in the manufacture of biojewelry. Family farming use fiber processing for crafts Indigenous lands use in craft making, heritage symbol, cultural affirmation.		[34], [35], [4], [36]
		Home to <i>Pantaneiro</i> , men and women living in Pantanal biome.		www.visitms.com.br

Pampa	Mate-Herb / 63 Tons	Same as Atlantic Forest biome	Same as Atlantic Forest biome
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Supplementary Material S2

Table S2. Summary of place-based initiatives in Brazilian biomes, state and municipality and a brief description.

ID	Name	Biome	Municipality and state	Source
1	CBT in RESEX Rio Unini	Amazon	Novo Airão, Amazonas	[37]
2	RDS Rio Negro, Margem Direita	Amazon	Iranduba, Amazonas	Fundação Amazonas Sustentável (FAS)
3	APA Margem Esquerda do Rio Negro Tarumã-Açu/ Tarumã-Mirim	Amazon	Manaus, Amazonas	Fundação Amazonas Sustentável (FAS)
4	Reserva Extrativista Tapajós-Arapiuns	Amazon	Santarém, PA	Garupa, Vivejar
5	Segredos e Temperos da Amazônia	Amazon	Belém, Pará	Vivejar
6	Vivência Yawanawá	Amazon	Cruzeiro do Sul, Acre	Garupa, Vivejar,
7	Prainha do Canto Verde	Caatinga	Beberibe, Ceará	Garupa, Organização Prainha do Canto Verde
8	Ponta Grossa	Caatinga	Icapuí, Ceará	Garupa, Rede TUCUM
9	Associação Amazônia, Baixo Rio Branco	Amazon	Rorainópolis, Roraima	Garupa
10	Projeto de Assentamento Extrativista Lago Grande	Amazon	Santarém, Pará	Garupa, TURIARTE, Projeto Saúde e Alegria
11	Comunidade de Boa Vista do Acará	Amazon	Belém, Pará	Garupa, Estação Gabiraba.
12	Quilombo do Cumbe	Caatinga	Aracati, Ceará	Quilombo do Cumbe
13	São Manoel Bar and Rio Juruena	Amazon	Apuí, Amazonas	Estação Gabiraba
14	Amapá National Forest	Amazon	Oiapoque, Amapá	Estação Gabiraba
15	Associação Agroextrativista da Reserva Extrativista do Rio Liberdade	Amazon	Cruzeiro do Sul, Acre	[38]
16	Associação de Produtores Agroextrativistas da FLONA de Tefé e Entorno (APAFE)	Amazon	Tefé and Alvarães, Amazonas	[38]
17	Cooperativa Mista Agroextrativista do Rio Unini - COOMARU	Amazon	Barcelos e Novo Airão, Amazonas	[38]
18	Associação de Moradores e Produtores Rurais e Extrativistas da comunidade de Jamaraquá-Rio Tapajós (ASMORJA)	Amazon	Belterra, Pará	[38]
19	Associação de Moradores do Acaratinga	Amazon	Belterra, Pará	[38]; [39]
20	Associação de Moradores e Produtores Rurais e Extrativistas da Comunidade de Piquiatuba	Amazon	Belterra, Pará	[38]; [39]
21	Reserva Extrativista Marinha de Caeté-Taperaçu	Amazon	Bragança, Pará	[40]
22	Associação dos Seringueiros e Agroextrativista do Baixo Rio Ouro Preto (ASAEX)	Amazon	Guajará Mirim, Rondônia	[38]
23	Marine Extractive Reserve of Soure	Amazon	Soure, Pará	[38]; [41]
24	Associação dos Seringueiros do Rio Ouro Preto (ASROP)	Amazon	Guajará Mirim, Rondônia	[38]
25	Associação Remanescente do Quilombo Salamina Putumuju	Atlantic Forest	Maragogipe, Bahia	[38]

26	Associação de Moradores, Agricultores e Pescadores do Puxim da Praia (AMAPPP)	Atlantic Forest	Canavieiras, Bahia	[38]
27	Community-Based Tourism in Campo Buriti, Jequitinhonha Valley	Cerrado	Turmalina, Minas Gerais	Garupa and Vivejar
28	Community-Based Tourism in Mambaí	Cerrado	Mambaí, Goiás	Goiás government
29	RDS do Uatumã	Amazon	Itapiranga e São Sebastião do Uatumã, Amazonas	Instituto para Conservação e Desenvolvimento Sustentável do amazonas (IDESAM)
30	Jenipapo-Kanindé	Caatinga	Aquiraz, Ceará	Rede TUCUM
31	RESEX do Batoque	Caatinga	Aquiraz, Ceará	Rede TUCUM
32	Assentamento Maceió	Caatinga	Itapipoca, Ceará	Rede TUCUM
33	Curral Velho	Caatinga	Acaraú, Ceará	Rede TUCUM
34	Caetanos de Cima	Caatinga	Amontada, Ceará	Rede TUCUM
35	Associação dos Moradores de Tatajuba	Caatinga	Camocim, Ceará	Rede TUCUM
36	Vivência Xavante	Cerrado	Canarana, Mato Grosso	https://turismo.ambiental.tur.br/vivencia-xavante
37	RESEX LAGO DO CUNIÃ	Amazon	Porto Velho, Rondônia	[42]
38	Tremembé community	Caatinga	Icapuí, Ceará	Rede TUCUM
39	Vila da Volta	Caatinga	Aracati, Ceará	Rede TUCUM
40	Boa Vista Village	Atlantic Forest	Ubatuba, São Paulo	Garupa
41	Quilombo Campinho da Independência	Atlantic Forest	Paraty, Rio de Janeiro	Garupa
42	Liberty Route	Atlantic Forest	Cachoeira, Bahia	Rural Brazil Institute
43	Mosaico Sertão Veredas do Peruaçu - APA and PARNA Cavernas do Peruaçu	Cerrado	Formoso, Arinos, Chapada Gaúcha, Urucuia, Cônego Marinho, Januária, Itacarambi, Bonito de Minas, São João das Missões, Miravânia e Manga in Minas Gerais and Cocos in Bahia state.	Mosaico Sertão Veredas do Peruaçu website
44	Rio Negro Community Tourism Itinerary (Tucorin)	Amazon	Novo Airão, Amazonas	Ministry of Tourism [43]
45	Uacari Lodge	Amazon	Tefé, Amazonas	Mamirauá Sustainable Development Institute
46	Quilombo Kalunga	Cerrado	Alto Paraíso de Goiás, Goiás state	http://quilombokalunga.org.br/
47	Pra manter a floresta em pé: Comunidade Tumbira	Amazon	Iranduba, Amazonas	Garupa, https://www.poranduba-amazonia.com/sobre-nos

Supplementary Material S3

Table S3. General characteristics of the 47 place-based CBT initiatives analyzed in the study.

ID	Name	Where take place	Origin	Structure, financial resources	Stakeholders and sectors taking part	Activities developed	Dissemination channels	Aims
1	RESEX Rio Unini	RESEX	2006	Federal government transfer; community-led visitation	NTFPs extractivists	Experience the daily life of the community.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
2	RDS Rio Negro, Margem Direita	SDR	2008	Federal government transfer; community-led visitation	Family farmers and indigenous people, riverside community	Experience the daily life of riverside, family farmers and indigenous communities.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
3	APA Margem Esquerda do Rio Negro Tarumã-Açu/Tarumã-Mirim	Environment protection area (EPA)	1995	Federal government transfer; community-led visitation	Family farmers and indigenous people, riverside community	Experience the daily life of riverside family farmers and indigenous communities.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
4	RESEX Tapajós-Arapiuns	RESEX	1998	Federal government transfer; community-led visitation	NTFPs extractivists and riverside communities	Experience the daily life of an Amazonian riverside community in extractivism and subsistence agriculture	Management plan, government report, website; Sustainable tourism operator official website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
5	Segredos e Temperos da Amazônia	Island	Information not found	Local community partnership with tour operator; community-led visitation; itinerary; profit from tourism	NTFPs extractivists, riverside communities and family farmers	Visit communities and experience the regional gastronomy through community-based entrepreneurs.	Sustainable tourism operator official website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
6	Vivência Yawanawá	Indigenous land	2002	Local community partnership with tour operator; community-	Indigenous people	Experience traditional way of life of	Sustainable tourism operator official website	Natural resources management and conservation; cultural

				led visitation; itinerary; profit from tourism	indigenous tribe Yawanawá.	heritage and traditions protection; rural livelihoods improvement		
7	Prainha do Canto Verde	RESEX	Information not found	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	Rural community, fishermen, artisans	Local community lodging and the restaurant, artisanal fishing.	Sustainable tourism operator website; official website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement; landscape management with cooperation among stakeholders, enhance the role of local communities, build social capital
8	Ponta Grossa	Rural settlement	1993	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	Rural community, fishermen, artisans	Hear the incredible stories of the local fishermen, raft, boat or buggy rides	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
9	Associação Amazônia, Baixo Rio Branco	Rural settlement	Information not found	Local community partnership with tour operator; community-led visitation; itinerary	Riverside communities and family farmers	Experience the daily life of communities surrounding Amazon rivers	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
10	Projeto de Assentamento Extrativista Lago Grande	Extractivist settlement	2005	Local community partnership with tour operator; community-led visitation; itinerary; community lodging, NTFPs	NTFPs extractivists, riverside communities and family farmers	Discover the knowledge of a riverside community, trails through the Amazonian Forest.	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
11	Comunidade de Boa Vista do Acará	Rural settlement	Information not found	Local community partnership with tour operator; community-led visitation; itinerary; community lodging, NTFPs	NTFPs extractivists and riverside community	Lifestyle of riverside community in the production of artisanal flour and harvesting of typical fruits (Açaí).	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
12	Quilombo do Cumbe	Quilombola community	2003	Local community partnership with tour operator; community-led visitation and	Quilombola community, fisherman	Aims the preservation of biodiversity and our traditional way of life.	Sustainable tourism operator website; official website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement;

				management; community lodging, NTFPs			landscape management with cooperation among stakeholders, enhance the role of local communities, build social capital	
13	São Manoel Bar and Rio Juruena	Rural settlement	2005	Local community partnership with tour operator; community-led visitation; itinerary; community lodging, NTFPs	NTFPs extractivists, riverside communities and family farmers	Experience the production of cassava flour, local handicrafts and extractivism of Brazil nut.	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
14	Amapá National Forest	National Forest	1989	Local community partnership with tour operator; community-led visitation; itinerary; fishing; federal government transfer	Riverside communities and family farmers; Chico Mendes Institute for Biodiversity Conservation (ICMBio)	Visit national forests and riverside communities.	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
15	Associação Agroextrativista da Reserva Extrativista do Rio Liberdade	RESEX	2005	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio)	Experience Açaí extractivism.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
16	Associação de Produtores Agroextrativistas da FLONA de Tefé e Entorno (APAFE)	National Forest	1989	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio)	Experience Brazil nut extractivism; trails and community's regional food.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
17	Cooperativa Mista Agroextrativista do Rio Unini - COOMARU	RESEX	2006	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio)	Experience Brazil nut extractivism.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement

18	Assoc. de Moradores e Produtores Rurais e Extrativistas da comunidade de Jamaraquá-Rio Tapajós (ASMORJA)	National Forest	1974	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio)	Sociobiodiversity chain in Tapajós National Forest.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
19	Associação de Moradores do Acaratinga	National Forest	1974	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	Sociobiodiversity chain in Tapajós National Forest;	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
20	Associação de Moradores e Produtores Rurais e Extrativistas da Comunidade de Piquiatuba	National Forest	1974	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	Sociobiodiversity chain in Tapajós National Forest and experience Açaí extractivism.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
21	Reserva Extrativista Marinha de Caeté-Taperaçu	Marine RESEX	2005	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	Experience community-based tourism management model.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
22	Associação dos Seringueiros e Agroextrativista do Baixo Rio Ouro Preto (ASAEX)	RESEX	1990	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	Trekking with overnight stay at Rio Ouro Extractive Reserve, experience Açaí, Brazil nut, Babaçu extractivism.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
23	Marine Extractive Reserve of Soure	Marine RESEX	2001	Local community partnership with	NTFPs extractivists; Chico	Experience community-based	Management plan,	Natural resources management and conservation; cultural

				associations, government; community-led visitation	Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	tourism management model.	government reports and website.	heritage and traditions protection; rural livelihoods improvement
24	Associação dos Seringueiros do Rio Ouro Preto (ASROP)	RESEX	1990	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	Overnight stay at Rio Ouro Extractive Reserve.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
25	Associação Remanescente do Quilombo Salamina Putumuju	Marine RESEX	1974	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	Visit to the ruins of the ancient slavery mill, forest trails and walks mangrove and estuary.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
26	Associação de Moradores, Agricultores e Pescadores do Puxim da Praia (AMAPPP)	Marine RESEX	Information not found	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	Boat ride mangrove swamp, visitation to the “black mud” and visits to the association headquarters.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
27	Community-Based Tourism in Campo Buriti, Jequitinhonha Valley	Rural settlement	Information not found	Local community partnership with tour operator; community-led visitation	Family farmers	Visit women artisans who produce the ceramic dolls of Jequitinhonha Valley.	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
28	Community-Based Tourism in Mambaí	Rural settlement	Information not found	Local community partnership with associations, government; community-led visitation	Family farmers; State government	Waterfalls, canyons and caves.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement

29	RDS do Uatumã	SDR	2004	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, riverside communities, family farmers; Institute for Conservation and Sustainable Development of Amazonas (IDESAM)	Experience community-based tourism management model.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement; landscape management with cooperation among stakeholders, enhance the role of local communities, build social capital
30	Jenipapo-Kanindé	Indigenous land	2002	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, indigenous people, fisherman and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
31	RESEX do Batoque	RESEX	2003	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, fisherman and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
32	Curral Velho	Rural settlement	2006	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, fisherman and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
33	Caetanos de Cima	Rural settlement	1987	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, fisherman and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement

34	Associação dos Moradores de Tatajuba	Rural settlement	2001	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, fisherman and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
35	Vivência Xavante	Indigenous land	Information not found	Local community partnership with associations, government; community-led visitation	Indigenous people	Experience the life, culture and activities of indigenous communities.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
36	RESEX Lago do Cuniã	RESEX	2018	Local community partnership with associations, government; community-led visitation	NTFPs extractivists; Chico Mendes Institute for Biodiversity Conservation (ICMBio); Ministry of Environment	Experience the life, culture and activities of local communities.	Management plan, government reports and website.	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
37	Pra manter a floresta em pé: Comunidade Tumbira	SDR	Information not found	Local community partnership with tour operator; community-led visitation; fishing and tourism	Riverside communities and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
38	Mosaico Sertão Veredas do Peruaçu - APA and Parnaíba Cavernas do Peruaçu	Mosaic of conservation units	2008	Local community associations partnership with associations, foundations, institutes, community-led visitation; fishing and tourism	NTFPs extractivists, family farmers, riverside community, indigenous people, quilombola community, universities, institutes, associations, state and municipal government	Experience the life, culture and activities of local communities, biodiversity conservation and sustainable extractivism of NTFPs.	Official website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement; landscape management with cooperation among stakeholders, enhance the role of local communities, build social capital

39	Uacari Lodge	SDR	1999	Local community partnership with tour operator, associations, foundations, institutes; community-led visitation and management; fishing and tourism, agroforestry	NTFPs extractivists, riverside communities and family farmers, universities, institutes, associations, state and municipal government	Living and learning the way of life of Amazonian communities.	Sustainable tourism operator website; official website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement; landscape management with cooperation among stakeholders, enhance the role of local communities, build social capital
40	Quilombo Kalunga	Quilombola community	1991	Community-led visitation and management.	Quilombola community (the largest remaining quilombo community in Brazil)	Kalunga Historical Site and Cultural Heritage offer trails and walks between mountains and footpaths and rivers, canyons, waterfalls and thermal waters	Official website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement; landscape management with cooperation among stakeholders, enhance the role of local communities, build social capital
41	Assentamento Maceió	Rural settlement	1980	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, fisherman and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
42	Tremembé Community	Rural settlement	2000	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, fisherman and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
43	Vila da Volta	Rural settlement	Information not found	Local community partnership with tour operator; community-led visitation and management; fishing and tourism	NTFPs extractivists, fisherman and family farmers	Experience the life, culture and activities of local communities.	Sustainable tourism operator website and local CBT association website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement

44	Boa Vista Village	Indigenous territory	Information not found	Local community partnership with tour operator; community-led visitation	Indigenous people	Experience the life, culture and activities of indigenous communities.	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
45	Quilombo Campinho da Independência	Quilombola community	Information not found	Local community partnership with tour operator; community-led visitation	Fisherman and family farmers	Experience the life, culture and activities of quilombola communities.	Sustainable tourism operator website	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
46	Liberty Route	Quilombola community	Information not found	Community-led visitation and management	Fisherman and family farmers, Rural Brazil Institute	Experience the life, culture and activities of quilombola communities.	Government and third-party websites	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement
47	Rio Negro Community Tourism Itinerary (Tucorin)	Rural settlement	Information not found	Local community partnership with tour operator; community-led visitation	Family farmers, riverside community, indigenous people, Ministry of Tourism	Experience the culture and life of riverside populations, visit the cassava flour artisanal production, forest trails, participate in an indigenous ritual.	Sustainable tourism operator website, government reports	Natural resources management and conservation; cultural heritage and traditions protection; rural livelihoods improvement

Supplementary material S4

Table S4. Likelihood of the variables be associated with CBT.

	Variables	CBT	
Biophysical	Reserves	Likely	[44], [45], [11], [46], [47], [48]
	Socio-biodiversity chain	Likely	[44], [45], [11,49–53]
	Extractive Reserves (RESEX)	Likely	[44], [45], [11,49–53]
Cultural/liveli hoods	Quilombola community	Likely	[11,49–53],
	Indigenous lands	Likely	[44], [54], [45], [11,49–53]
	Traditional People and Communities	Likely	[11,49–53]
	NTFPs extractivism production diversity	Likely	[11,49–53]
	Family farming from concession of indigenous land	Likely	[11]
	Family farming from title of quilombola community	Likely	[11]
Tourist structure	Lodging establishments up to 9 employers	Complementary	[55], [47], [48]
	People employed in tourism related activities	Complementary	[55], [47], [48]
Accessibility	Distance from International airports	Complementary	[11]
	Federal roads	Complementary	[56], [11]

Table S5. Detailed information about the variables and datasets used in the study.

Category	Visitor attraction types	Source
Biophysical	Reserves	Ministry of the Environment, Chico Mendes Institute, Brazilian Forest Service, Amazon Protected Areas Program, Brazilian Agricultural Research Corporation and the Brazilian Institute of Geography and Statistics (https://maps.csr.ufmg.br/).
Cultural/liveli hoods	Socio-biodiversity chain	Catalog of Sociobiodiversity Products in Brazil[38] and Ministry of the Environment (https://www.mma.gov.br/).
	Extractive Reserves (RESEX)	Ministry of Environment http://mapas.mma.gov.br/i3geo/datadownload.htm
	Quilombola community	http://acervofundiario.inca.gov.br/acervo/acv.php
	Indigenous lands	Ministry of the Environment, Chico Mendes Institute, Brazilian Forest Service, Amazon Protected Areas Program, Brazilian Agricultural Research Corporation and the Brazilian Institute of Geography and Statistics (https://maps.csr.ufmg.br/)
	Coastal and marine extractivists	Ministry of Environment (http://mapas.mma.gov.br/).
	Terreiro	Listed Goods and in Progress (1938 - 2019) of the National Historical and Artistic Heritage Institute (Iphan) (http://portal.iphan.gov.br/)
	Faxinalenses	Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/) and [57–59].
	“Sempre-viva” pickers	Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/) and Rede Cerrado Organization (https://redecerrado.org.br/). GeoNode (http://geonode.jbrj.gov.br/).
	Geraizeiros	Rede Cerrado Organization (https://redecerrado.org.br/) and Cerratinga Organization (http://www.cerratinga.org.br/).
	Caatingueiros	Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/).
	Vazanteiros	Centro da Agricultura Alternativa do Norte de Minas (https://wwwcaa.org.br/), Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/).
	Marroquianos	[60], Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/)
	Pomerano people	[61], Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/).
	Araguaia retreators	Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/)
	Riverside	Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/)

Veredeiros	Ypadê Portal of the Ministry of Environment (http://portalypade.mma.gov.br/) and Instituto Chico Mendes de Conservação da Biodiversidade (https://www.icmbio.gov.br/).
NTFPs extractivism production diversity	IBGE Automatic Recovery System - SIDRA from the 2017 Census of Agriculture https://censo.ibge.gov.br/agro/2017/
Number of Family farming from concession of indigenous land	IBGE Automatic Recovery System - SIDRA from the 2017 Census of Agriculture https://censo.ibge.gov.br/agro/2017/ Table 6774 https://sidra.ibge.gov.br/tabela/6774#notas-tabela
Number of Family farming from title of Quilombola community	IBGE Automatic Recovery System - SIDRA from the 2017 Census of Agriculture https://censo.ibge.gov.br/agro/2017/ Table 6774 https://sidra.ibge.gov.br/tabela/6774#notas-tabela
Tourist structure	Lodging establishments up to 9 employers
	Information System on the Labor Market in the Tourism Sector – SIMT and the Institute of Applied Economic Research (IPEA) http://extrator.ipea.gov.br/
Accessibility	People employed in tourism related activities
	Information System on the Labor Market in the Tourism Sector – SIMT and the Institute of Applied Economic Research (IPEA) http://extrator.ipea.gov.br/
	International airports https://maps.csr.ufmg.br/
	Federal roads https://maps.csr.ufmg.br/

Supplementary Material S5

Table S6. Grades and weights for CBT multi-criteria model.

Variables	Description	First part		Second part	
		Grades	Category	Weight	Source
Reserves	Euclidean distance, range divided in five classes using Quantile.	< 107249.5588 - 10 < 219861.5956 - 8 < 348561.0662 - 6 < 541610.2721 - 4 = < 1367431.875 - 1	Biophysical	0.30	[11,51,53,62–66]
Socio-biodiversity chain	Euclidean distance from Socio-biodiversity chain, divided in five classes using Quantile.	< 51013.03873 - 10 < 138463.9623 - 8 < 284215.5015 - 6 < 1858332.125 - 4			(Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)
Extractive Reserves (RESEX), Quilombola community, Indigenous lands and Traditional People and Communities.	Euclidean Distance from RESEX, Quilombola community, Indigenous lands, Marine RESEX, Terreiro, Faxinalenses, “Sempre-viva” pickers, Geraizeiros, Artisanal fishing, Caatingueiros, Vazanteiros, Marroquianos, Pomerano people, Faxinal, Araguaia retreators,		Cultural/live lihoods	0.50	(Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)

Riverside, Cipozeiros, Andioibeiras e Veredeiros. The density in five classes using Quantile.			
NTFPs diversity 2019	Values at municipality level, range divided in five classes using Quantile.	= 1 - 1 >1- 10	(Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)
Family farming from concession of indigenous land	Values at municipality level, range divided in five classes using Quantile.	< 0 – 1 = 0 - 1 >0 - 10	(Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)
Family farming from title of quilombola community	Values at municipality level, range divided in five classes using Quantile.	< 0 – 1 = 0 - 1 >0 - 10	(Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)
Lodging establishments up to 9 employers	Values at municipality level, range divided in five classes using Quantile.	= 0 - 1 < 8 - 4 < 18 - 6 < 50 - 8 =< 1101 - 10	Tourist structure 0.10 (Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)
People employed in tourism related activities	Values at municipality level, range divided in five classes using Quantile.	< 5 - 1 < 60 - 4 < 201 - 6 < 826 - 8 =< 342831 - 10	(Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)
Proximity from Federal roads	Euclidean Distance for international airports and Federal roads. The density of federal roads and international airports (from 2 to 20), divided in five classes using Quantile.	<12395.0098 - 10 < 29438.14828 - 8 < 54228.16789 - 6 < 100709.4547 - 4 < 395090.9375 - 1	Accessibility 0.10 (Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)
Proximity from International airports		< 223541.4039 - 10 < 351279.349 - 8 < 487000.9157 - 6 < 634697.9147 - 4 < 1017911.75 - 1	(Bartholo et al., 2009; Carvalho Ribeiro et al., 2018; Hung & Jan, 2019; ICMBIO, 2019; Imbaya et al., 2019; Mbaiwa, 2011; MTUR, 2008; Smith & Ram, 2017)

Supplementary Material S6

Table S7. Landscape metrics from sociobiodiversity tourism hotspots.

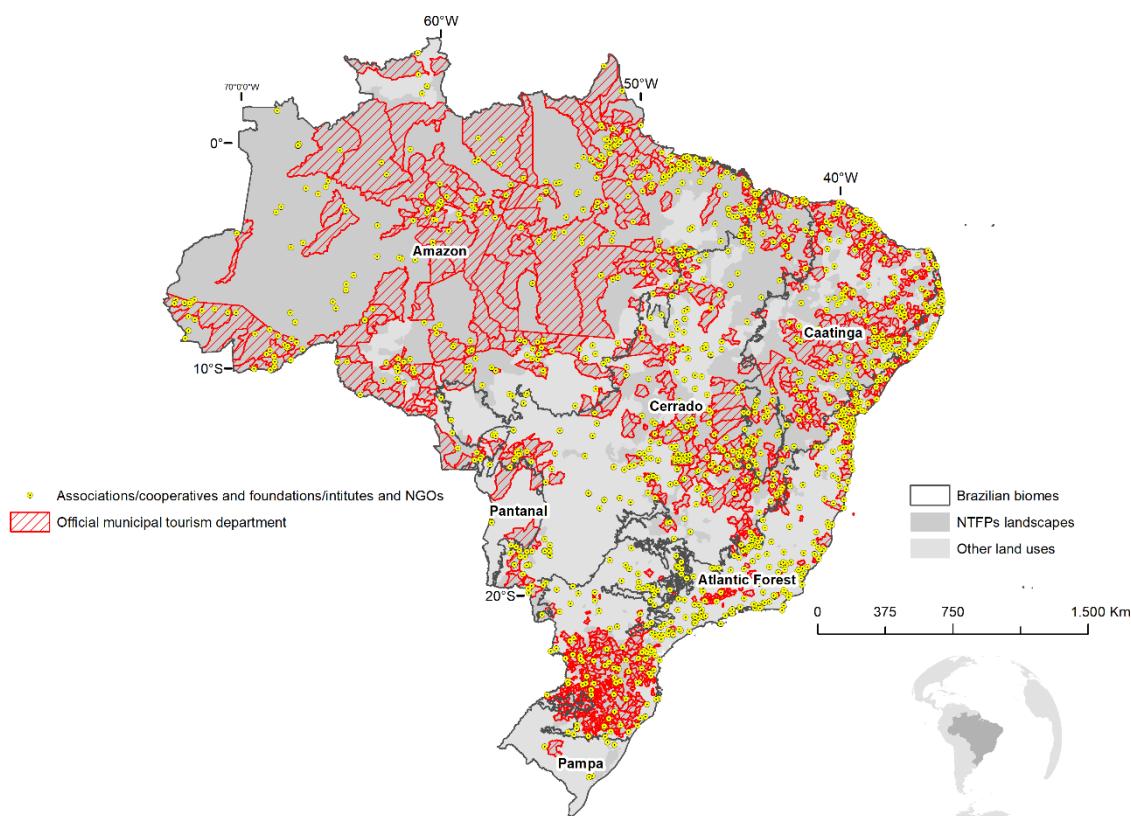
Tourism modalities	Biomes	Mean Patch Size (MPS) (ha)	Patch Size Standard Deviations (ha)
CBT	Amazon	432.907	2.348.473
	Cerrado/ Caatinga	95.962	417.521

Supplementary Material S7

Table S8. Quantitative data regarding landscape-scale governance mechanisms in sociobiodiversity tourism hotspots.

Tourism modalities	Biomes	Associations/ cooperatives	Foundations/ NGOs/ institutes	Total	Tourism official department
CBT	Amazon	165	34	199	93
	Cerrado/ Caatinga	125	32	157	109

Figure S2. Spatial explicit location of landscape-scale governance mechanisms in Brazilian biomes.



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