Supplementary Table S1. Matrix score calculation used for value chain actors for whom we conducted surveys.

Type of data	Actor	Subcategory	Variable category	Indicator	Target criteria description	Target_criteria Value_Manabi	Target_criteria Value_Napo	Survey Derived Value Manabí	Survey Derived Value Napo	Score Manabí	Score Napo
Surveys applied to the value chain actors evaluated in the system	Farmers	Livelihood and well-being	V1	Access to domestic services	Number of farmers from the total interviewed who have permanent access to potable water, light, internet, and mobile signal	15	23	6	9	2	2
			V2	livelihood sufficiency (food and income)	Number of farmers from the total interviewed whose incomes cover the basic food basket or minimum wage for their families	15	23	10	16	4	4
		Inclusiveness	V3	Participation in farmers' organization	Number of farmers from the total interviewed who belong to a farmer association	15	23	9	14	4	4
			V4	Ownership of the land	Number of farmers from the total interviewed who are owners of the land on which they produce	15	23	10.29	16	4	4
		Productivity	V5	Optimal planting yield	Bamboo culms/ha	800	800	500	500	4	4
			V6	contract skilled labor	Number of farmers from the total interviewed who hire day laborers to manage their crops	15	23	3	4	1	1
			V7	Access to crop services (fertilizer, credits, seeds, etc)	Number of farmers from the total interviewed who have sufficient means to access the services required for the management of their plantations.	15	23	6	10	2	3
		Farmers holders	V8	Age of farmers	Number of farmers from the total interviewed with age between 18 to 60 years (international parameters)	15	23	9	14	4	4
			V9	Level of education of the farmers	Number of farmers from the total interviewed who study at middle and higher education institutions	15	23	3	5	1	1

Surveys applied to the value chain actors evaluated in the system		Trading relationships	V10	relationship with buyers	Number of farmers from the total interviewed who have a fair and mutually beneficial relationship with buyers	15	23	8	6	3	2
	Workers	Child labor	V11	Presence of child labor	Percentage of workers aged 18 years or older.	100	100	70	75	4	5
		Fair salary	V12	Payment per journey day's work	Payment per day worked in USD (according to the monthly minimum wage in Ecuador)	22	22	15.5	16.07	4	4
		Working hours	V13	Effective working hours (average)	Percentage of workers who work less or equal to 8 hours/day	100	100	90	90	5	5
		Forced labor	V14	Forced labor in the production processes	Percentage of workers who are not faced with forced labour	100	100	85	90	5	5
		Equal opportunities/discrimination	V15	Racial or gender discrimination	Percentage of workers who were not subject to discrimination or gender disparities	100	100	60	50	4	3
		Health and safety	V16	Exposure to hazardous conditions	Percentage of workers who are not exposed to risk conditions	100	100	45	50	3	3
		Social benefits/social security	V17	Affiliation with the national social security	Percentage of workers who are affiliated with the social security system	100	100	30	30	2	2
		Employment relationship	V18	Employment relation	Percentage of workers who have a formal contract	100	100	25	20	2	1
	Value Chain Actors (preservation centers, transporters, traders and retailers)	Fair competition	V19	Fair competition	Percentage of actors who consider they have fair competition	100	100	20	36	1	2
		Wealth distribution	V20	Contractual instruments	Percentage of actors in the value chain who have a contractual instrument signed	100	100	20	22	1	1
			V21	Price profit margin	Percentage of actors who consider the price at which bamboo is marketed is profitable for all stakeholders	100	100	65	70	4	4
		Supplier relationships	V22	Intermediation	Percentage of actors who consider that there is no intermediation between the chain actors	100	100	30	30	2	2

Source: Authors' own surveys of bamboo value chain actors in the two provinces (2024)