



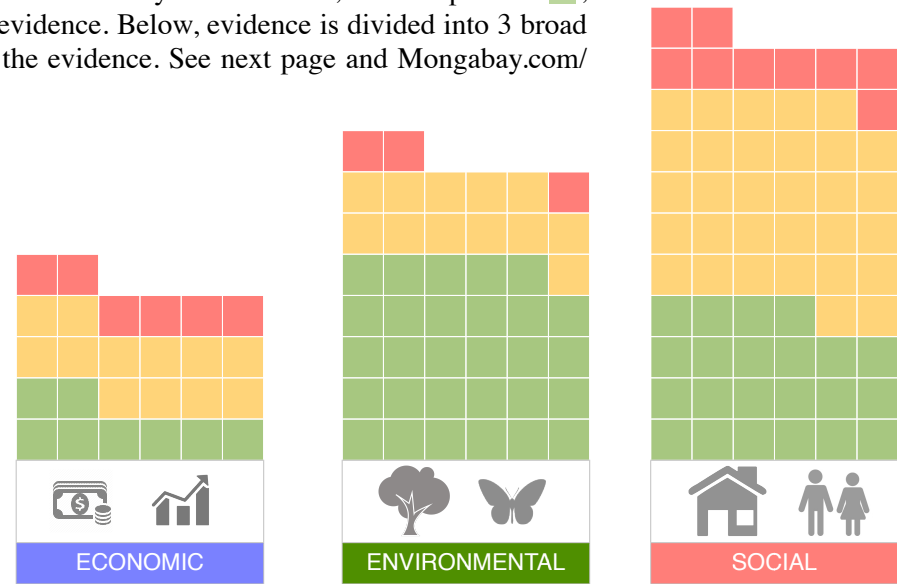
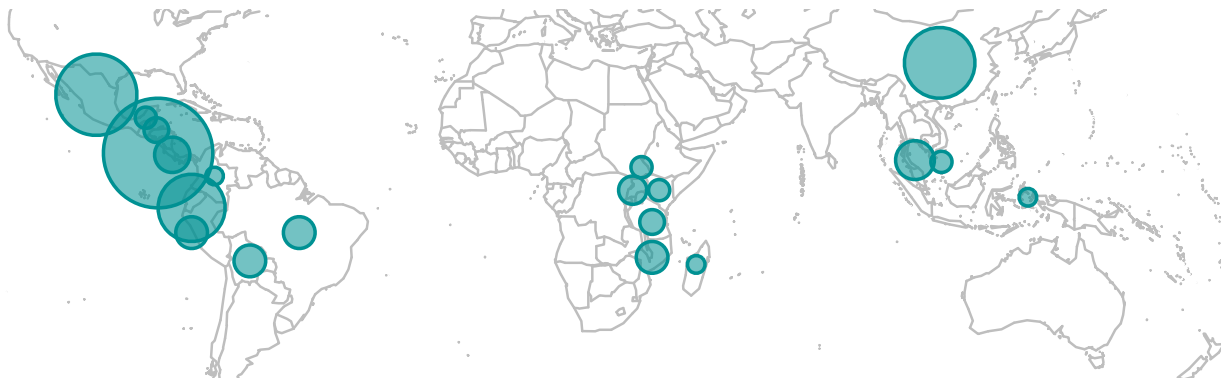
		VARIABLES	PAYMENTS FOR ECOSYSTEM SERVICES																																					
ENVIRONMENTAL		Deforestation, fragmentation and degradation																			5	28	31	35	32	19	1	2	12	19	21	33	34	38	31	6	5			
		Carbon stock, emissions																										16	11	30	30									
		Animal diversity																																						
		Tree diversity																																						
		Reforestation																																						
		Illegal hunting, logging, mining																																						
		Water regulation, erosion prevention																																						
SOCIAL		Access to land																																						
		Infrastructure and institutions																																						
		Jobs																																						
		Conflict																																						
		Land grabbing, better land tenure																																						
		Community wellbeing and livelihoods																																						
		Awareness, empowerment, participation																																						
EQUALITY, EQUITY, LESS MARGINALIZATION	27	31	5	7	9	9	9	9	9	9	10	15	24	24	24	28	36	33	18	16	13	14	23	31	38	38														
ECONOMIC		Direct economic benefits to community																																						
		Opportunity costs																																						

LEGEND

causal or meta-analysis case study

■ better
■ same
■ worse

Scientific evidence on the outcomes of Payments for Ecosystem Services -- Each square represents one data point extracted from scientific, peer-reviewed literature. The colour of each square shows whether Payments for Ecosystem Services, showed positive ■, neutral ■, or negative ■ environmental, social, or economic outcomes. Darker shades represent stronger evidence. Below, evidence is divided into 3 broad themes, above, evidence is assigned into finer categories. The map shows the geographic distribution of the evidence. See next page and Mongabay.com/ConservationEffectiveness for details on methods and references corresponding to numbers in squares.



Studies

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Notes

To carry out this literature review, we systematically searched the academic literature search platform Google Scholar. The goal was to evaluate the outcomes of Payments for Ecosystem Services (PES) programs in terms of different environmental, social, and economic variables. Studies either compare areas with and without PES, or before and after PES implementation, or document perceived changes in PES project areas. We went through the first 1000 Google Scholar search results for the keywords: payments for ecosystem services OR payments for environmental services AND tropical forest OR Africa OR Asia OR South America AND impact OR effect* AND social OR economic OR environment. The search was carried out in 2017. Please see full methods on Mongabay.com/ConservationEffectiveness. The majority of extracted data points do not imply causation, only correlation. Studies vary in the rigor of design, sample size, methodology, and scope. Therefore, data points (individual squares) cannot be summed or used to calculate overall effect! One red square does NOT cancel out one green square. Please use as a non-exhaustive map of existing scientific evidence rather than as a final verdict on whether PES is effective. Please contact Zuzana Burivalova for full database: z.burivalova@gmail.com