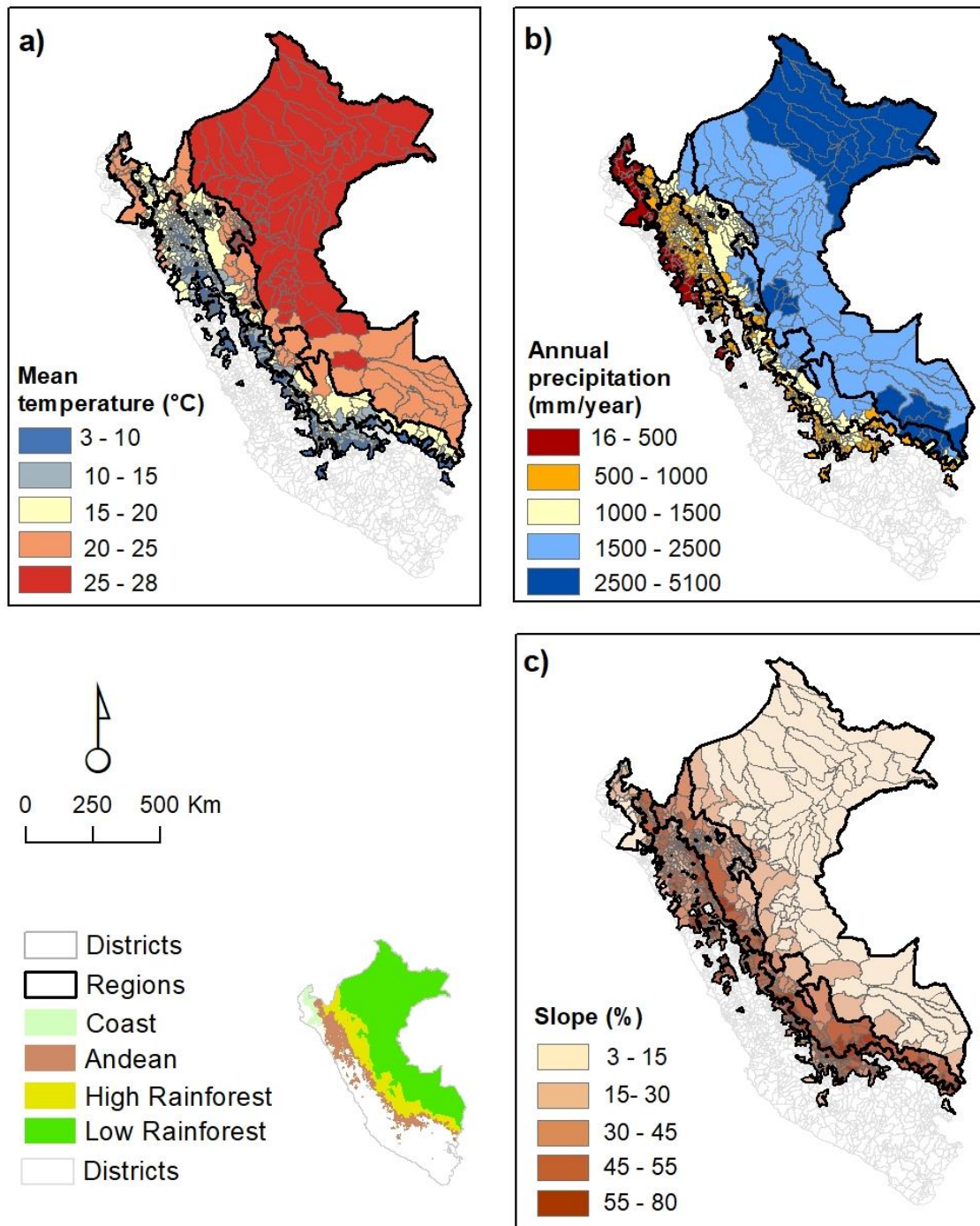


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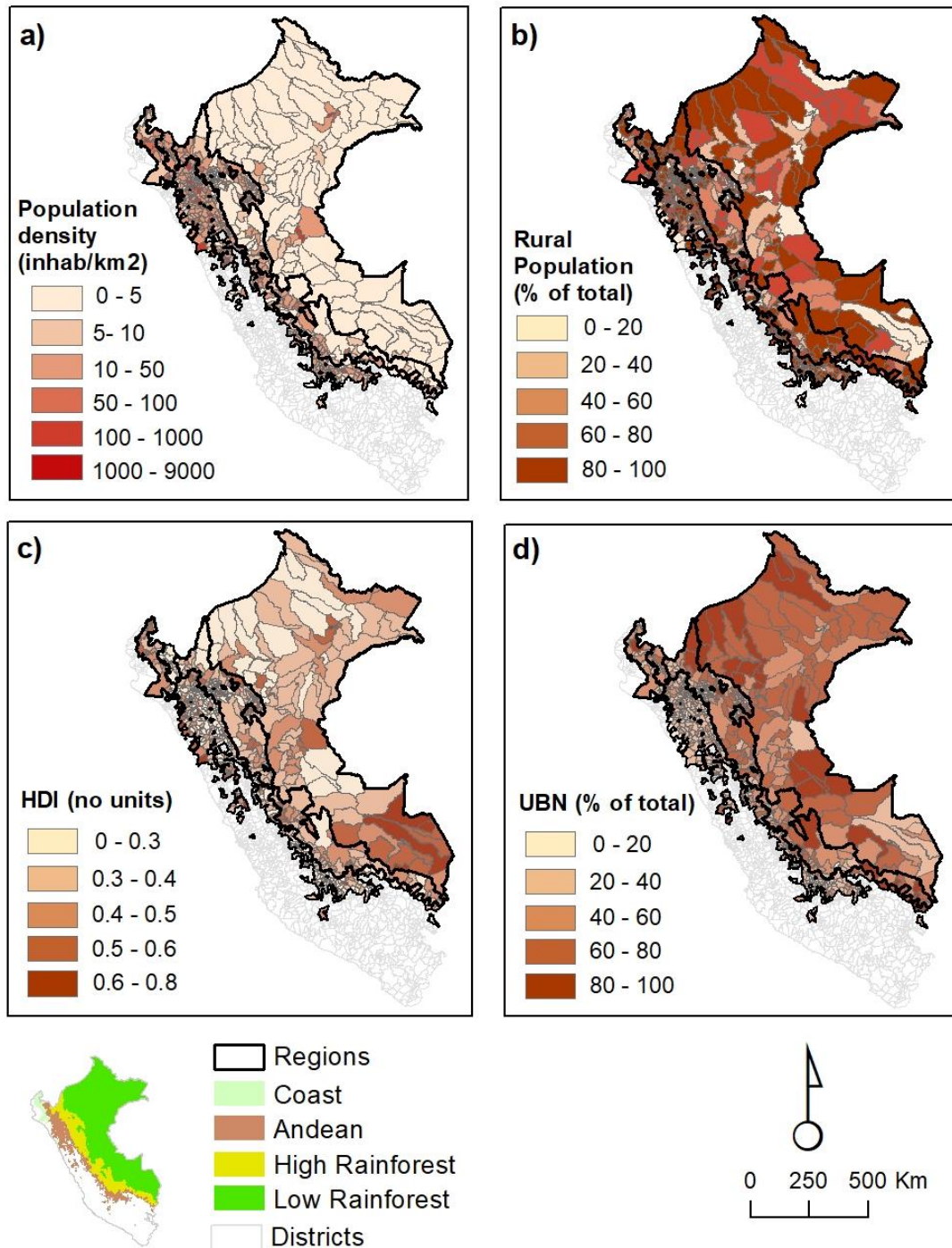
Supplementary Information

Title: Decoding the Drivers and Effects of Deforestation in Peru: A National and Regional Analysis of Two Decades (2000-2020)



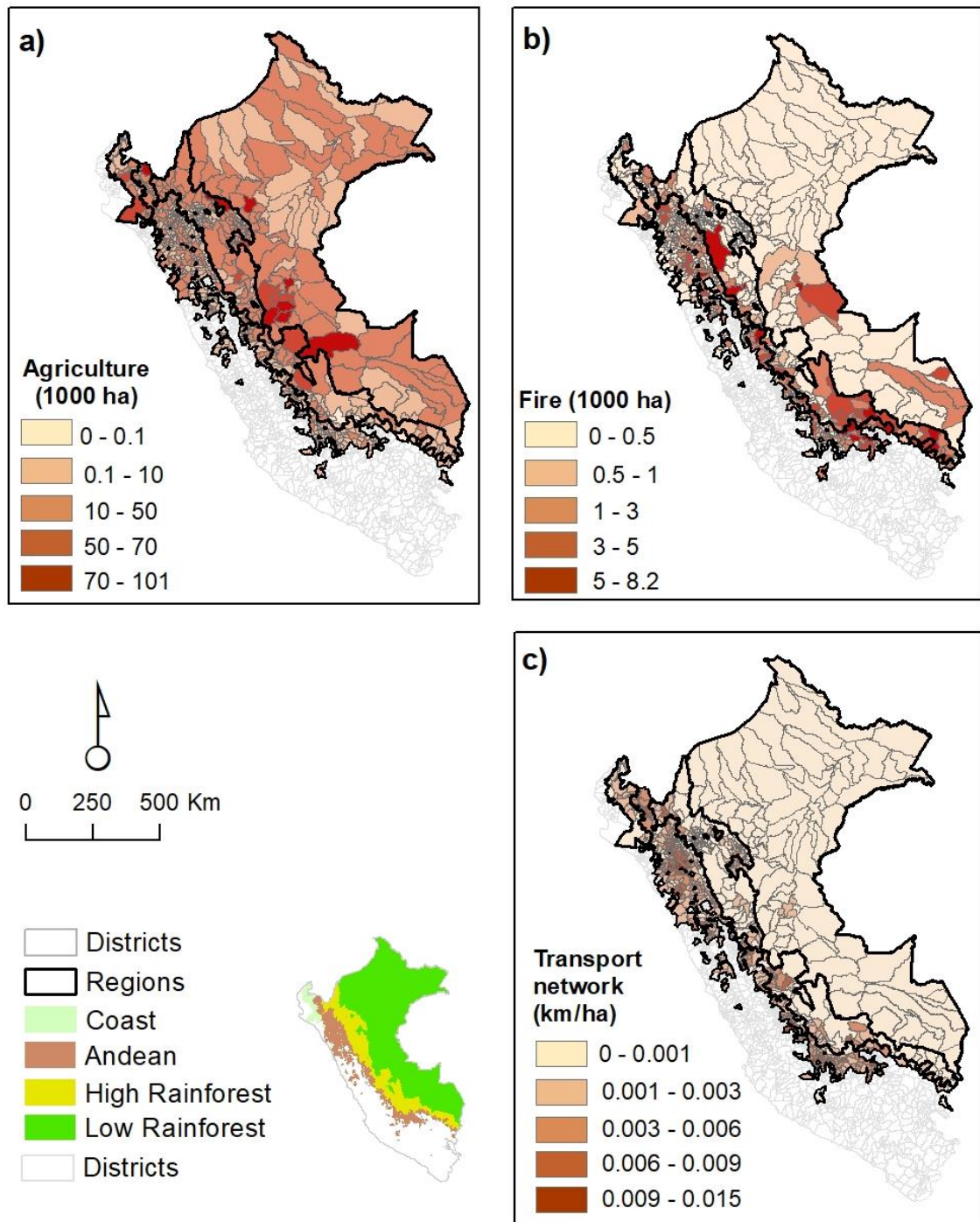
Data source: temperature and precipitation (Fick and Hijmans, 2017) and slope from DEM (Farr et al., 2017)

Supplementary Fig. 1. Physical environmental variables by district. a) Mean annual temperature (°C); b) annual precipitation (mm/year) and c) slope (%).



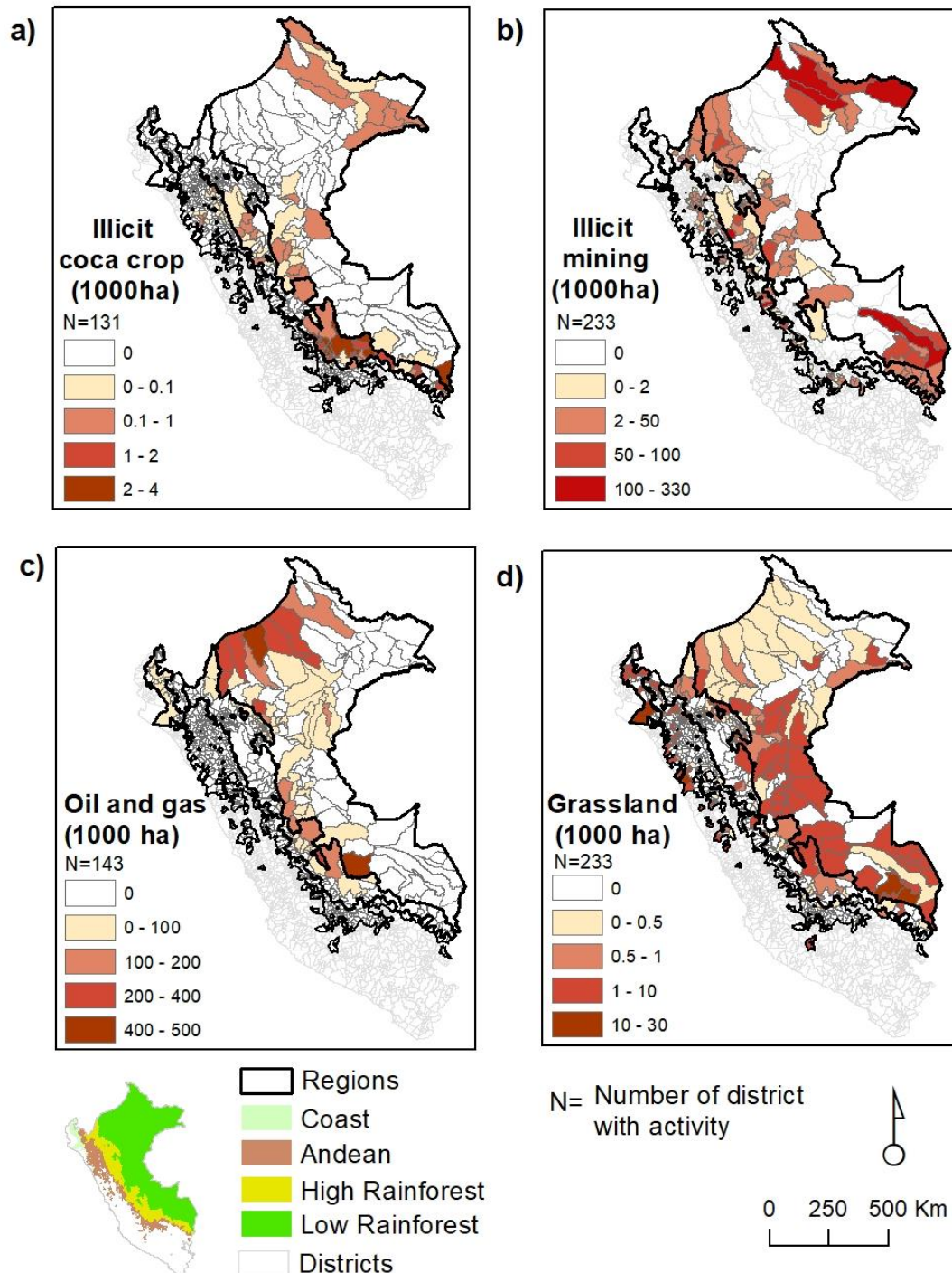
Data source: 2017 national census (INEI, 2018) and UNPD (2019)

Supplementary Fig. 2. Demographics and socioeconomic variables. a) Population density (inhabitants per km²); b) Percentage of rural population (%) and c) Human development index (HDI, no units) and d) unsatisfied basic needs (UBN, %).



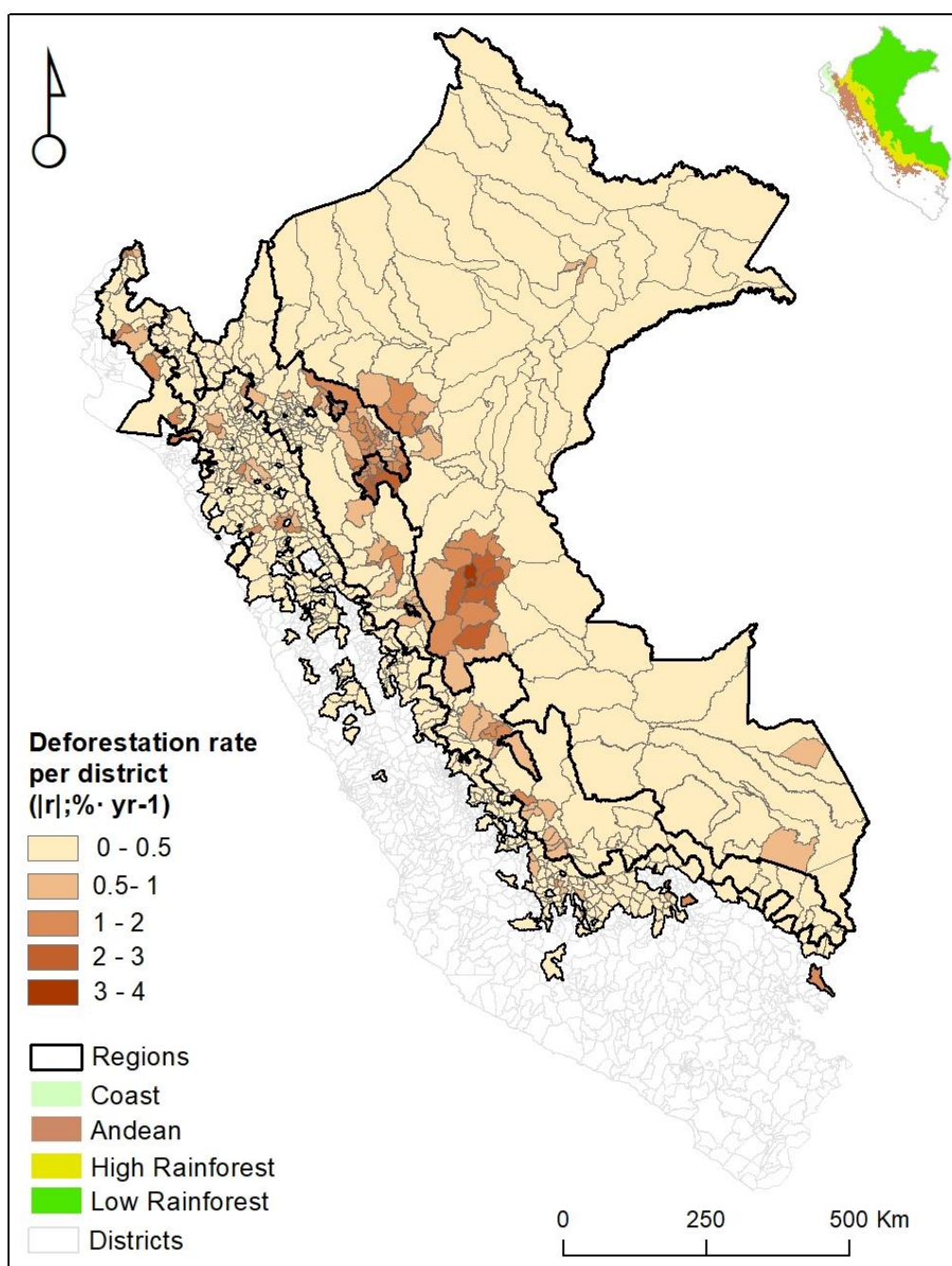
Data source: crops Ministerio de Agricultura y Riego- MINAGRI (2021); fire Servicio Nacional Forestal y de Fauna Silvestre (SERFOR. pers. comm.) and road network Ministerio de Transporte y Comunicaciones- MTC(2019) and MARINA DE GUERRA DEL PERÚ. pers. comm.

Supplementary Fig. 3. Land use and accessibility variables. a) agriculture (ha); b) fire (ha); c) transport network (km/ha).



Data source. Illicit coca crop: United Nations Office on Drugs and Crime- UNDOC (various reports); Comisión Nacional para el Desarrollo y Vida sin Drogas-Devida (2021); Illicit mining: Rede Amazônica de Informação Socioambiental Georreferenciada (RAISG) (2020); Oil and gas: PETROPERU (2022) and Grassland: difference between grassland surface of 2020 and 2001 of Cover Type 1 band from the Collection 6 MODIS Land Cover MCD12Q1 and MCD12C1 product (Sulla-Menashe and Friedl, 2018).

Supplementary Fig. 4. Districts with presence of another land use variables. a) Illicit coca crop (ha); b) illicit mining (ha); c) oil and gas (ha) and d) grassland (ha).



Supplementary Fig. 5. Deforestation rate by district ($|r|$; %·yr⁻¹).

Supplementary Table 1. Deforestation rates ($|r|$; %·yr⁻¹) at national and regional scale

		Forest cover 2000 (ha)	Forest cover 2020 (ha)	$ r $ %·yr ⁻¹
National		78 098 000	74 640 000	0.23
Regional	Coast	347 000	339 000	0.12
	Andean	2 140 000	2 052 000	0.21
	High Rainforest	14 484 000	13 488 000	0.36
	Low Rainforest	61 127 000	58 761 000	0.20

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