

SUPPLEMENTARY MATERIAL

Supplementary article: Road Permeability Index as a tool for mitigation planning of road impacts on wildlife in Colombia: a case study using mammals

Material suplementario artículo: Índice de Permeabilidad Vial como herramienta para la planificación de mitigación de los impactos de las carreteras sobre la fauna silvestre en Colombia: un caso de estudio utilizando mamíferos

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Figure S1. Tertiary unpaved rural road (a) before being upgraded to the four-lane Yuma Road (b).



Figure S2. Sampling design for predicting road permeability through landscape variables in the study area. The effect of variables on animal permeability at a given location (e.g., location 25) depends on the animal's capacity to navigate and move through the surrounding landscape (yellow circle). Image CNES/Airbus 2020 from Google Earth Pro.

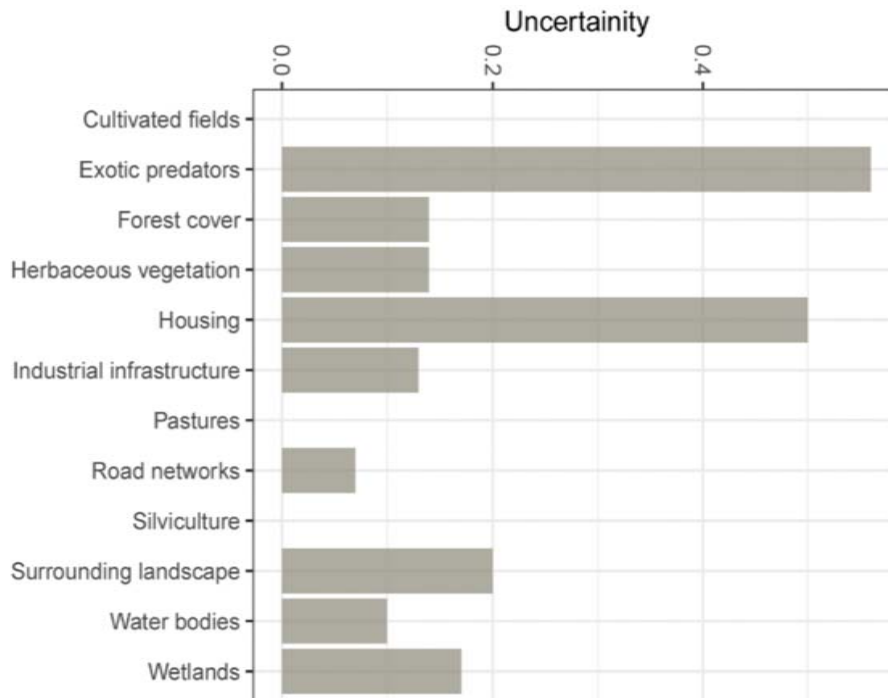


Figure S3. Among-expert variability (i.e., uncertainty) about the influence of landscape variables on habitat permeability for medium-sized and large mammals in the study area. Values around zero indicate low uncertainty.

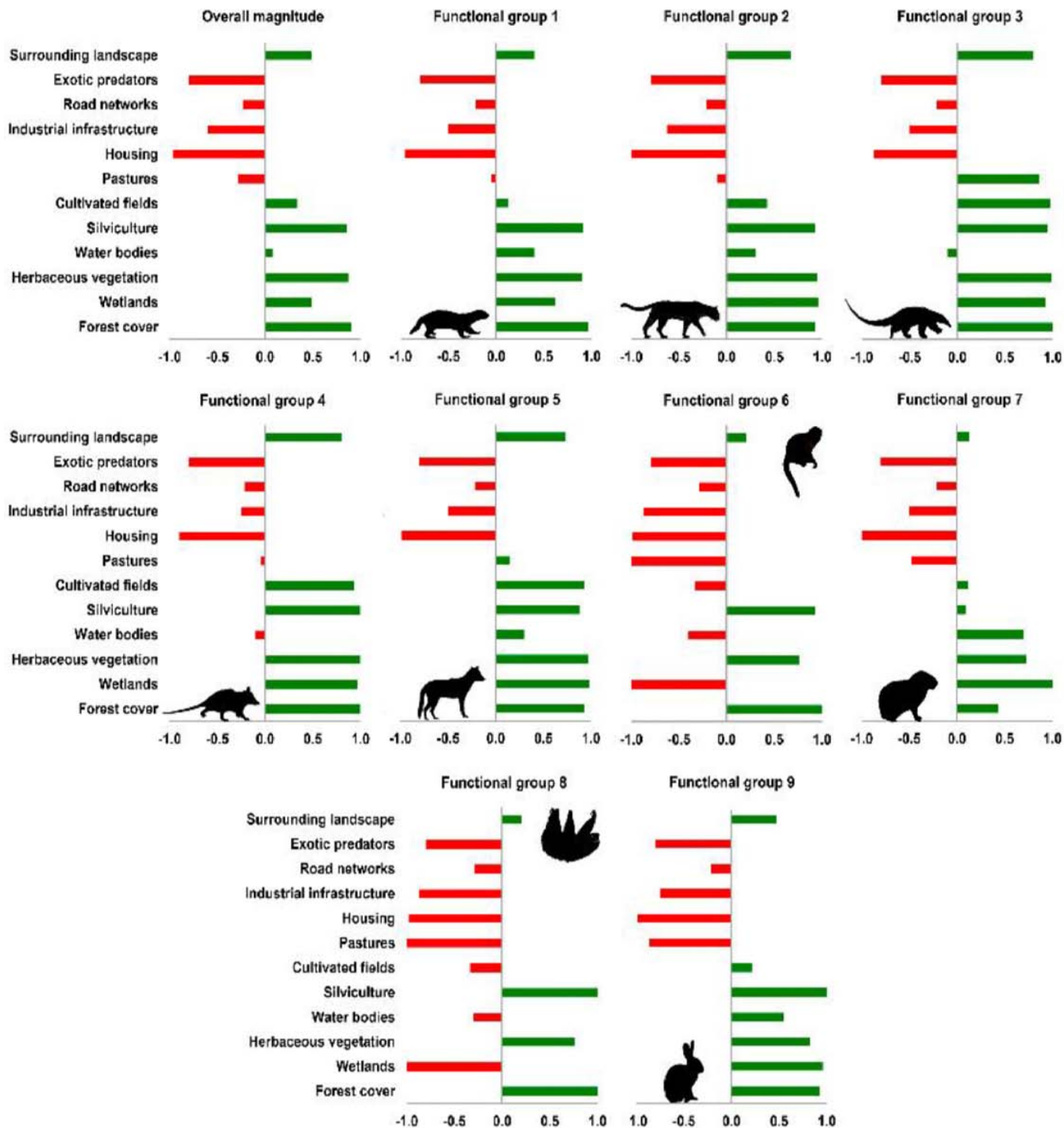


Figure S4. Relative influence of landscape variables across functional group permeability in the study area, varying between 0 and 1. Signs (-) for negative and (+) for positive influence.

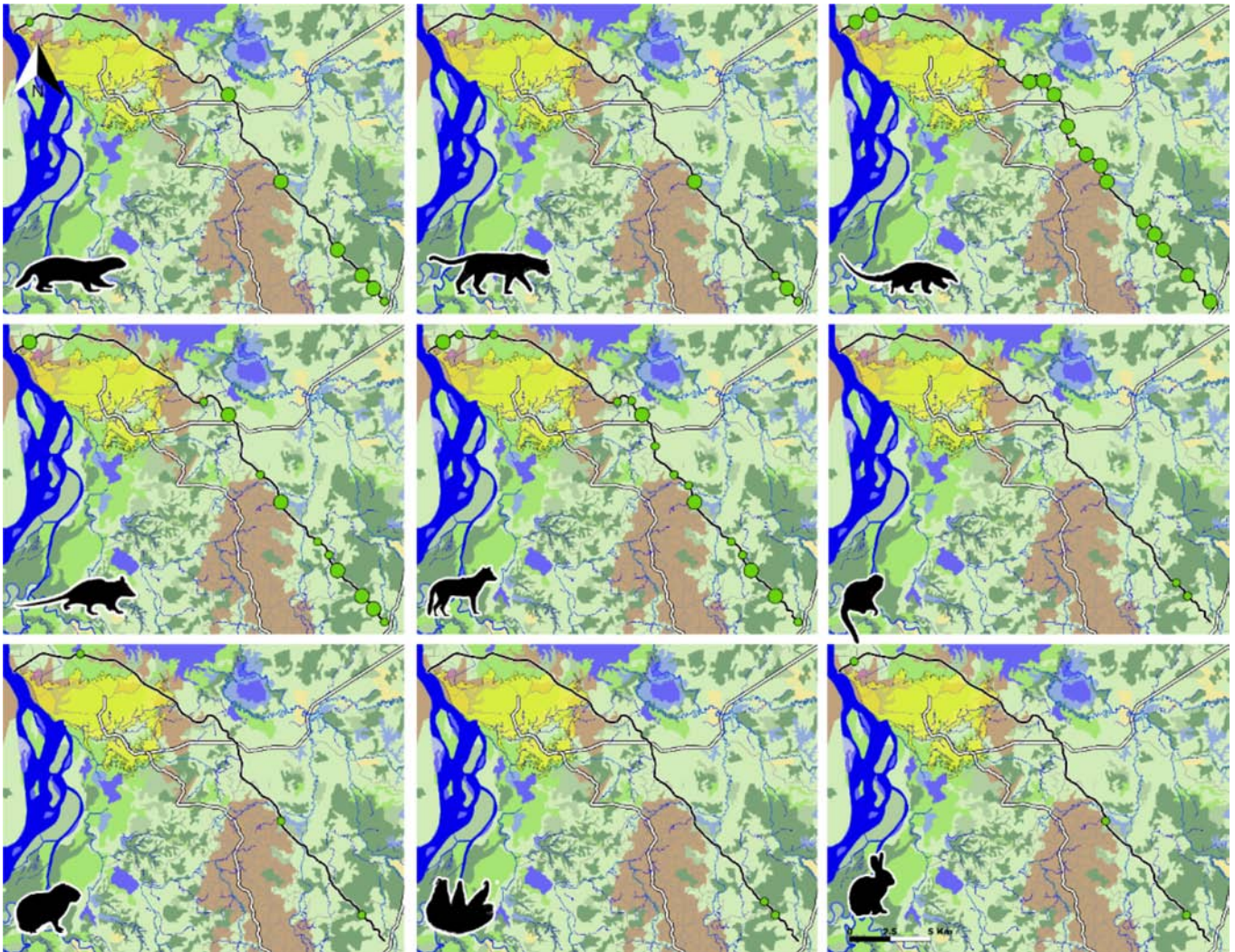


Figure S5. Road Permeability Index (RPI) across functional groups in the study area. For practical purposes, only higher values where animal crossing is more frequent are shown (≥ 0.25). Circle size represents the magnitude of RPI. Landcover categories as in Figure 1.

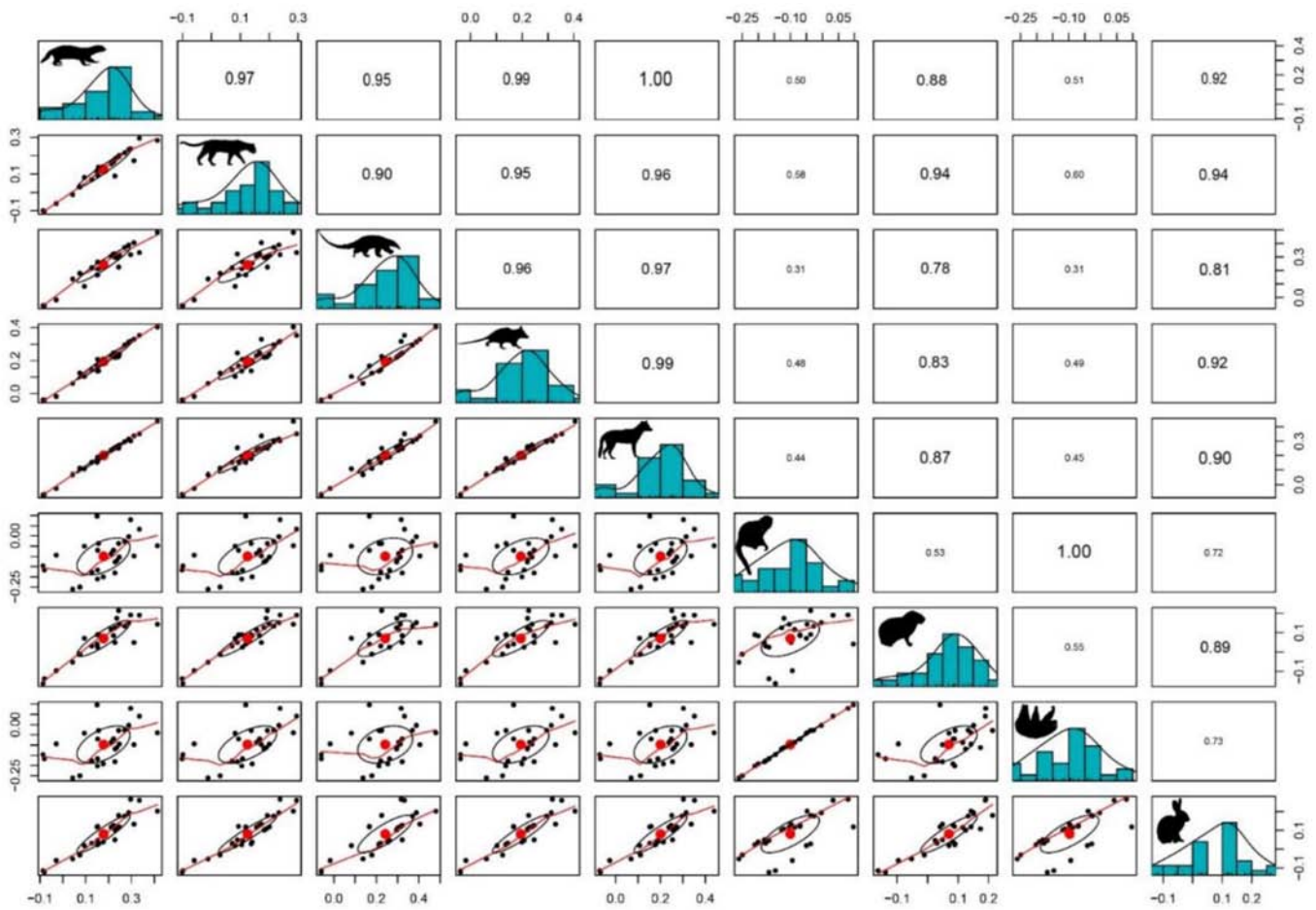


Figure S6. Scatterplot matrix showing the distribution of Road Permeability Index (RPI) for each functional group and their pairwise relationships in the lower panel. Diagonal with histograms showing the frequency of RPI results per functional group. Upper panel with pairwise Pearson correlation values.