

Description of Additional Supplementary Datasets

Severe conservation risks of roads on apex predators

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All I.Q., E.F.C., J.D., M.A., D.M.M., F.M.F., B.R.S., F-J.R., conceived, designed, and wrote the manuscript. E.F.C. carried out spatial analysis and maps. I.Q. and E.F.C designed and created formulae and figures. M.A., D.M.M, F.M.F., B.R.S., I.Q., J.D., and F-J.R. collected articles and extracted data for wildlife-vehicle collision.

Supplementary Data 1. Collated wildlife-vehicle collision data ranging from 1963 to 2021. The rate of killed individuals per year was calculated as the fraction of number killed individuals over the number of years.

Supplementary Data 2. Protected areas in the Brazilian Amazon, Africa and Nepal that will be crossed by future road developments and/or affected by a 10-km buffer along the road. Explanation of IUCN category available at:

<https://www.iucn.org/theme/protected-areas/about/protected-area-categories>