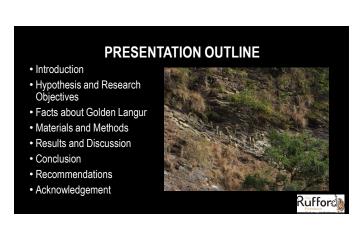
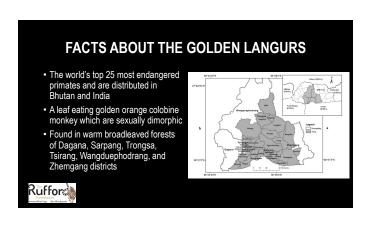




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FACTS ABOUT THE GOLDEN LANGURS CONT...

- · Live in uni-male/multi-female groups of 3 to 9 individuals, bi-male/multi-female groups of 8 to 15 individuals, and multi-male/multi-female groups
- Attain maturity (Male:5-7 years and Female-4 years
- Endangered (IUCN) Red List
- Appendix-I (CITES).
- Schedule-I species (FNCA 1995,





METHODS

Data collection: November 2019 to April 2020-Emphasized on winter season

- · Scan sampling along roads (both primary and farm roads) and existing trails as transect lines-
- Minimum Convex Polygon (MCP)
- Heat Map-GIS analysis tool
- Remote cameras and sign surveys
- Key informant interview
- Vulnerability risk assessment based on exposure pathways.
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STUDY SITES

- Two distinct landscapes that measures 338.83 sq.km.
 Adjacent to 2,642 people

 - 76 kilometers of roads,
 - 28 kilometers of power transmission lines and
 - 564.27 ha of agricultural land
 - The biological corridor (BC) that connects Phrumshingla National Park (PNP), Jigme Singye Wangchuk (JSWNP), and Royal Manas National Parks (RMNP) and have enforced protection





ANALYSIS

- Calculate proportions and ratios
- Perform t-test to determine the difference on group mean size
- Qualitative Risk Analysis (QRA) based on risk exposure pathways
- Pearson correlation to test the relationship between tree DBH, tree height, and langur group sizes.



MATERIALS AND METHODS



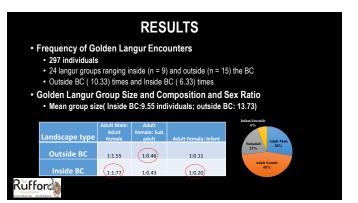


- binoculars (Celestron 8x42 Nature DX Binocular) Global Positioning Unit (GPS), Smartphone GPS and app (SW Maps),
 Camera (Nikon COOLPIX P1000 Digital Camera),
 Reconyx camera trap,

- Samsung Tablets,Compass (SUNTO),

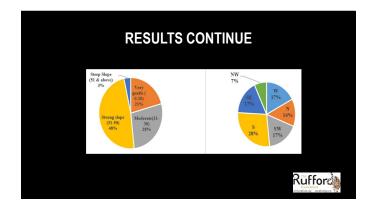
- Clinometers (SUNTO), andDiameter tape for measuring tree girth.





**PESULTS CONTD • Locations and Characteristics of Sleeping Sites • Langurs slept in 28 tree species from 21 Linnean families and 14 orders. • The two most frequently used species were Saplum Insigne (9 times) and S. eugeniligolium (4 times) which has spreading, open shape • Anthropic and Environmental Factors

CONCLUSION Golden langur living outside the BC has variation in group size and social structure, and have larger group sizes with multi-male/multi-female structure. Golden langurs sleeping in tall, large trees with spreading branches to accommodate all group members in one tree. Golden langurs were threatened by the presence of natural predators (leopard, python. and raptors), but natural predation of golden langur appears to be a rare event. Golden langurs feed on cultivated fruits and vegetables accelerating the humanlangur interactions Golden langurs were most vulnerable to mortality caused by electrocution, road kill, and dog kill.



RECOMMENDATIONS • Installation of speed limit signage and speed breakers to limit the speed • Installation of insulated electric cables and fencing around power transformers • Refrain domestic dogs freely ranging in langur feeding area • Initiate community-based awareness program.

