## BATS ARE LANGE LANGE

'KEYSTONE SPECIES' - "THOSE SPECIES THAT ARE CENTRAL TO THE FUNCTIONING OF THE NATURAL ECOSYSTEM WHERE THEY ARE EMBEDDED" - DISPROPORTIONATELY INFLUENCE COMMUNITY DYNAMICS, ECOSYSTEM PROCESSES, AND "THE PERSISTENCE OF ALL OTHER SPECIES."

CHIROPTERANS COMPOSE "[AN ORDER OF MAMMALS WHOSE] EFFECTIVE CONSERVATION ... IS CRITICAL FOR THE ECOSYSTEMS AND OTHER SPECIES DEPENDENT UPON THEM."

GLOBALLY, > 1.400 SPECIES CONTRIBUTE IMMENSELY TO MAMMALIAN BIODIVERSITY AND ECOSYSTEM INTEGRITY, COMMONLY FUNCTIONING AS "KEYSTONES OF THE BIOLOGICAL COMMUNITY."



ACROSS THE PALAEOTROPICS, PTEROPODIDS (OLD WORLD FRUIT BATS) ARE "KEYSTONE SPECIES FOR ISLAND CONSERVATION," DISPERSING AND POLLINATING NATIVE ISLAND PLANT COMMUNITIES.
BECAUSE OF ISLAND COLONIZATION HISTORY AND ANTHROPOGENIC EXTINCTIONS, INSULAR PTEROPODIDS ARE OFTEN THE ONLY REMAINING VERTEBRATES CAPABLE OF DISPERSING LARGE SEEDS AND TRAVELING THE LONG-DISTANCES NEEDED TO CONNECT FRAGMENTED PLANT POPULATIONS.

LEPTONYCTERIS SPECIES (LONG-NOSED BATS) ARE IMPORTANT POLLINATORS OF COLUMNAR CACTI AND AGAVES. WHICH PLAY KEYSTONE ECOLOGICAL ROLES IN ARID ECOSYSTEMS BY PROVIDING STRUCTURAL RESOURCES, NUTRIENTS AND WATER FOR A VARIETY OF ANIMALS.

GLOBALLY, "RURAL AND TRADITIONAL POPULATIONS IN POOR AREAS ARE OFTEN MORE DEPENDENT ON ECOSYSTEM SERVICES FOR THEIR LIVELIHOODS AND WILL BE DISPROPORTIONATELY AFFECTED BY DECLINES IN POLLINATOR POPULATIONS." IN THE MUNICIPALITY OF TECHALUTA DE MONTENEGRO, MEXICO LEPTONYCTERIS' POLLINATION SERVICES EQUATE TO \$480,000, "HIGHLIGHTING THE GREAT IMPORTANCE OF BAT POLLINATORS FOR THE WELFARE OF THE RURAL PRODUCTION REGION, AND THE SEVERE ECONOMIC CONSEQUENCES SHOULD BAT POLLINATOR POPULATIONS DECLINE."

