# **BACKGROUND**

Mauritius, recognised as a biodiversity hotspot and of high importance for conservation, hosts a particularly high proportion of endemic species [1].

One such species is the lesser night gecko, Nactus coindemirensis [2] (Figure 1,3), which is classified as vulnerable by the IUCN RedList [3].

Non-native species displaced many of the endemic reptiles to Mauritius [4], including the lesser night gecko.

The main population of lesser night geckos is found on Gunner's Quoin, with approximately 18000 individuals [5]. There are also small populations on Pigeon House Rock and Ilot Vacoas (see Figure 2).

In 2011, 75 lesser night geckos were translocated to Ile Marianne, a small island with no predators, providing baseline data on the species [5].

The lesser night gecko provides a good model species to reintroduce to Round Island, being the most numerous of the threatened reptiles, however Round Island is also home to native predators of the lesser night gecko [5].

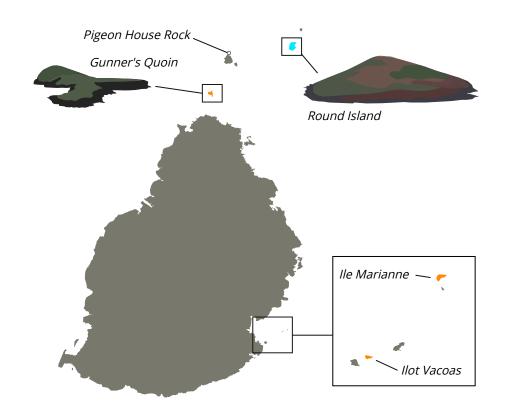


Figure 2: Map of mainland Mauritius. Lesser night geckos (Nactus coindemirensis) are present on islands shaded orange, the translocation site, Round Island, is shaded blue

### **AIMS:**

- REINTRODUCE LESSER NIGHT GECKOS TO ROUND ISLAND, MAURITIUS
- USE MODELING TO
  PREDICT EFFECT OF NATIVE
  PREDATORS ON
  TRANSLOCATED GECKOS
- ASSESS SUCCESS AT POPULATION AND ECOSYSTEM LEVEL
- BUILD GUIDELINES FOR TRANSLOCATION OF THREATENED REPTILE PREY SPECIES

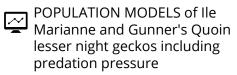
Figure 1: Illustration of a mature lesser night gecko,

Nactus coindemirensis.

## **METHODS:**

#### **PRE-TRANSLOCATION**

LITERATURE REVIEW evaluating past lizard translocations



MODEL SCENARIOS for release and the effect of removal on the source population using findings and expert opinion

#### TRANSLOCATION FIELDWORK

DISCUSS findings with stakeholders in Mauritius

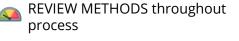


TRANSLOCATIONS of Gunner's
Quoin lesser night geckos to Round
Island in winter and summer

POST-RELEASE MONITORING begin and train surveyors

#### POST-TRANSLOCATION

ANALYSE TRANSLOCATION monitoring data and population dynamics of ecosystem post-translocation



PRODUCE GUIDELINES for translocations of threatened reptile prey species

Figure 3: Mature lesser night gecko, Nactus coindemirensis. Photo by Dr Nik Cole, Durrell Wildlife Conservation Trust.













