

Restoring the integrated native terrestrial habitat and seabird community of lle aux Aigrettes, Mauritius.





### (i) Project implementing institution and its mandate

#### **Our Mission**

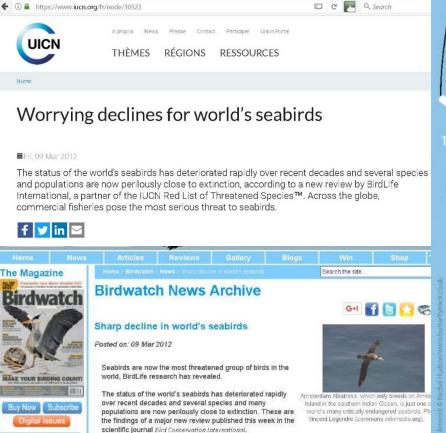
- To save threatened Mauritian species through the restoration of entire ecosystems.
- To seek new information through field research, data management, captive and scientific studies.
- Collaboration for direct application to restoration methods and management.
- To share knowledge gained through restoration programmes with fellow Mauritian and international conservationists.
- To share the joys and benefits of native wilderness and wildlife with the Mauritian people.
- To secure the future of Mauritian species through income generation and sound management of human, fiscal and capital resources

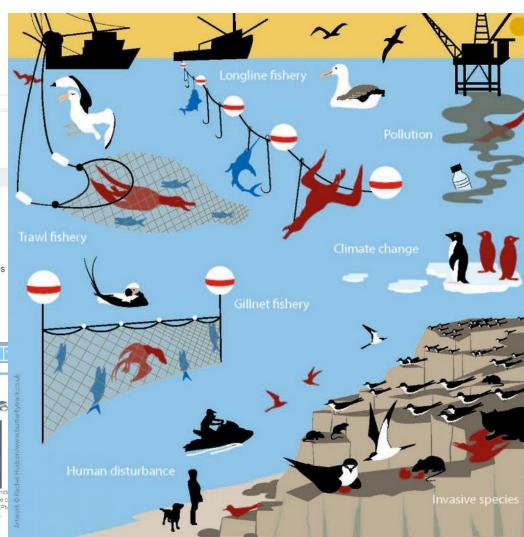
www.mauritian-wildlife.org



### (ii) background and justification of the proposed project

- The most threatened group of birds rapid declines
- Long lived, low reproductively, sensitive to small increases in mortality
- Several causes of decline
- Invasive Alien Species 75%





- Seabirds drive ecological processes in island ecosystems
- Import marine nutrients (droppings, food, eggs, feathers, dead)
- > soil fertility > invertebrate abundance and community composition, indirectly > endemic birds and reptiles



Graham et al. (2018) Seabirds enhance coral reef productivity and functioning in the absence of invasive rats. Nature 559.

Savage, C. (2019) Seabird nutrients are assimilated by corals and enhance coral growth rates. Scientific Reports 9.





### **Breeding seabirds:**

### **Round Island**

Red-tailed Tropicbird
White-tailed Tropicbird
Wedge-tailed Shearwater
Round Island Petrel (3 species hybrid)
Bulwer's Petrel



### Serpent Island

Common Noddy Lesser Noddy Sooty Tern Masked Booby Historically found elsewhere, such as Ile aux Aigrettes

Historical accounts and bone deposits

Cave

- Causes of seabird loss (rats, cats, poaching) removed
- Natural recolonization unlikely
- Philopatric nature, low density of two seabird spp in the South
- Translocation needed to bring seabirds back

## **lle aux Aigrettes**



#### Seabird attraction

Landbirds and reptiles reintroduced Analogues tortoise reintroduced Habitat restoration Secure rare endemic plants Education and ecotourism.















 Nestling Red-tailed Tropicbirds, White-tailed Tropicbirds and Wedge-tailed Shearwaters

















- Increased inspection of Ile aux Aigrettes
- Wedge-tailed Shearwater landing
- Need to improve attractiveness of Ile aux Aigrettes







## iii) Project Objectives

- Restore coastal forest habitat on Ile aux Aigrettes, specifically 'seabird habitat'
- Restore terrestrial and near-island marine ecosystem functioning through the attraction of seabirds
- Enable Mauritians to learn about their natural heritage and the importance of biodiversity conservation
- Remain a global leading example of island conservation and restoration.

## (iv) Partnerships

- Mauritian Wildlife Foundation (MWF) Project Lead
- The Government of Mauritius endorsement of the conservation work
- BirdLife International Technical assistance, and facilitate knowledge exchange and learning in the region
- North of England Zoological Society Learning with Nature on Ile aux Aigrettes
- Durrell Wildlife Conservation Trust supervision of seabird decoys, playback and monitoring of returning seabirds.
- Conservatoire Botanique National de Brest (France) plant and habitat restoration
- Mauritian companies fund habitat restoration.

## (v) linkages to ongoing initiatives







Habitat restoration





Open Seabird Habitat







Seabird Attraction

## (vi) Expected Results

- 14 ha of the island weeded of invasive alien plants
- 1 ha of habitat suitable for returning seabirds created
- 4000 plants replanted
- 90 seabird decoys maintained and returning seabirds monitored
- Habitat restoration supports 30 Pink Pigeons, 300 Mauritius Fodies and 60 Mauritius Olive White-eyes, 100 Telfair's Skinks and 250 Guenther's Geckos
- 6 restoration labourers hired
- Review and apply new bio-security protocols
- 30,000 visitors (including school children) exposed to the ecosystems restoration
- 6 popular articles written, and TV or radio programmes produced
- 3 Site visit for conservation staff, researchers, partners and government officials
- 1 knowledge exchange and understanding of conservation issues at regional and national level for practitioners
- Support to national and international conventions or targets.

(vii) summary of the project workplan																								
						Yea 1	ır											Yea	ar					
k	Responsible	1	2	3	4	5	6	7	8	9	1 :	1	1 2 :	1 7	2	3	4	5	6	7	8	9	1 0	
tcome 1.0	Weeding of invasive alien species present on the island a	nd seabir	d ar	rea (	creat	tion																		
tput 1.1	Clear 14 ha of Ile aux Aigrettes of invasive plants																							

ХХ

 $X \quad X \quad X \quad X$ 

ХХ

X X

 $X \quad X \quad X$ 

Recruit, train and supervise team to conduct weeding

1 ha of habitat suitable for returning seabirds created

Recruit, train and supervise team to conduct seabird

Review current bio-security protocols against invasive

Train staff and apply new biosecurity protocols against

Bio-security measures to prevent the entry of unwanted animal and plant species.

Review and apply new bio-security protocols against invasive alien species

area creation

alien species

invasive alien species

Task

Activity 1.1.3

Output 1.2

Activity 1.2.3

Outcome 2.0

Output 2.1

Activity 2.1.1

Activity 2.1.2

Outcome 3.0	Planting of native species and reconstitution of the prist	ine envii	onr	nen	t su	itab	le fo	or n	ativ	e fa	una	rein	troc	duct	ion										
Output 3.1	Planting 4000 native plants on Ile aux Aigrettes in newly																								
Activity 3.1	Collect seeds and seedlings for sowing or potting in the lle aux Aigrettes nursery	weeded										Х				cu									
Activity 3.2	Plant nursery grown plants in weeded areas and designated seabird-friendly areas							Х	Х	Х	Х									Х	Х	Х	Х		
Outcome 4.0	Seabird decoys as seabird attractants deployed and monit	ored																							
Output 4.1	Seabird decoys deployed to attract seabirds onto Ile aux A	Aigrettes																							
Activity 4.1.2	90 seabird decoys deployed in seabird friendly areas	X	х	X	X	X	х	х	X	х	X	X	X	X	X	X	X	X	X	X	Х	Х	X	х	X
Output 5.1	More than 30,000 visitors – including Mauritian adults an											earn	abo	out t	the	ecos	syst	ems	res	tora	ntior	n eff	orts		
Outcome 6.0	Exposure for external and internal staff, students, research	hers, pai	rtne	rs aı	nd g	ove	rnm	nent	off	icial	S														
Output 6.1	Exposure to external project partners																								
Activity 6.1.1	Workshop and site visit with government officials and project partners (e.g. private sector, visiting foreign supporters)												X												
Activity 6.2.1	Site visit and or exchanges with conservation staff, students and researchers	X	Х	X	х	X	Х	Х	х	X	Х	X		X	Х	X	X	Х	Х	Х	Х	Х	х	х	X
Outcome 7.0	Regional coordination (Responsible: BirdLife Africa)																								
Activity 7.1.1	Skype or written report between BirdLife Africa Secretariat and MWF to update on project progress			X			X			X			X			X			X			X			x

# (vii) summary of the project budget

9		Category	Total Cost (US\$)	WIOSAP Support
	1.	Personnel	141,710	58567
- AND	2.	Equipment	14214	2996
	3.	Operating costs	38700	3771
	4.	Contract Services	0	0
	5.	Travel	29542	4457

Total Cost (US\$) 224,166 WIOSAP Support 69,791

