# LORD HOWE ISLAND **RODENT ERADICATION PROGRAM**

The largest populated island to attempt a full scale eradication of rodents. What does it take for an operation of this magnitude to be successful?



TIMELINE

 $\mathbf{\Pi}$ 2001-2004

Feasibility study.

2007-2012 Initial trials. 2012

Funding received.

2012-2017 Additional studies and community engagement.

#### 2 SEP 2017-MAY 2018

Recruitment, planning and logistics.

# 3

**MAY 2018** Woodhen and currawong capture.

**JUN 2018** Aerial and ground baiting.

### 4 **JUL-NOV 2018**

Environment and health monitoring.

AUG 2018 Initial detector dog monitoring and Masked Owl eradication.

**SEP-OCT 2018** Currawong (staged) release.

**NOV 2018** Woodhen release.

JUL 2018-JUL 2020 Rodent detection and biodiversity benefits.

AUG 2020 Final detection and dog monitoring.

# 5

AUG 2020 Outcome of project declared.

**POST-2020** 

Long term biodiversity monitoring over 3–10 years, plus ongoing rodent and biosecurity detection.

# FUNDING

Funded by National Landcare Program (Federal) and the NSW **Environmental Trust** (State).



Non-action will threaten House Mice (Mus Musculus) arrived on the unique biodiversity Lord Howe Island before 1860. Black Rats values on which World (Rattus rattus) were introduced in 1918 when the ship SS Makambo ran aground. Lord How<u>e Island Phasmid:</u> **CRITICALLY ENDANGERED** 

D PROBLEM IDENTIFICATION

Including the world's rarest insect, the Lord Howe Island Phasmid. Thought to be extinct since 1920, it was rediscovered on a rodent-free island in the Lord Howe Island Group in 2001.

# NG, LOGISTICS & Y FNGAGF **SEP 2017-MAY 2018**

The chosen eradication method combines aerial and ground baiting followed by dog teams on the ground. Located 600km off the coast from Sydney, Lord Howe Island's remote location means the project requires extensive planning and logistics management to ensure the greatest possible chance of success.



Lord Howe Island Trader.

LESS THAN A total bait application of 42 tonnes of cereal pellet

containing just 840g of the active ingredient brodifacoum. BAIT STATIONS Scattered across

Responsible for project

planning and logistic

the island in places the helicopters cannot access.



**SETTLEMENT AREAS** Bait stations, hand broadcasting

# **B**AITING **JUN 2018**

### **AERIAI** TEAM

ſ

2001-2017

Mice and rats are

responsible for the extinction of at least 5

endemic bird species

and 13 invertebrate

species since 1918.

Heritage listing is

based.

Aerial baits will be focused on the nonsettlement areas of the island. It is anticipated that two drops will be sufficient to kill all rodents. The drops are scheduled for winter to decrease the risk to non-target native animals.

equipped with a flightline Global Positioning System (GPS), recording accurate flight lines to ensure bait is dropped with 100% coverage.

AERIAL BAIT APPLICATIONS ſ 3–5 days each, 14–21 days apart. Scheduled for June 2018.

HELICOPTER PILOTS Highly skilled with experience flying in challenging conditions.

WITH 3 X 720KG BAIT BUCKETS Each helicopter is

25225

DROP I: DROP 2: 12kg/ha 8kg/ha



A combination of hand broadcast and bait stations will be used throughout the settlement area to ensure coverage, in conjunction with the two aerial drops.



Responsible for hand broadcasting and placement and monitoring of bait stations in the settlement area.

**OF SURFACE AREA TO BE BAITED** 



# IVE MANAGEMENT MAY 2018-AUG 2020

Intensive rodent monitoring for two years, followed by ongoing biosecurity monitoring. If no rodents are detected two years after the initial eradication the project will be deemed a success.

#### CAPTIVE MANAGEMENT CREW Up to 350 endemic birds (85% of

woodhens and 60% of currawongs) will be captured and caged during baiting. This crew provides specialist care for the birds during the monitoring phase.

#### SPECIALLY TRAINED DOG TEAMS

Two permanent biosecurity dogs and their handlers will monitor rodent activity. Four rodent detectors dogs and their handlers will also be used for two weeks after the baiting.



## COMES AUG 2020

Increased biodiversity.

NON-SETTLEMENT AREAS

Aerial baiting

- Enhanced world heritage values.
- Increased numbers and breeding success for birds such as the Kermadec petrel, Masked booby and White-bellied storm petrel.
- ✓ Increased seeds and seedlings for numerous plant species including the critically endangered Little Mountain Palm.
- Recovery of endemic ground lizards and invertebrates such as land snails.
- Reintroduction of the world's rarest insect, the Lord Howe Island Phasmid.
- Long term benefits to tourism and the island's economy through improved visitor experience.



#### **INFOGRAPHIC BY MIKE ROSSI / MICROGRAFIK.COM**

#### PROGRAM **PARTNERS:**







Lord How inscribed on the vvon Heritage List in 1982 Cultural Organi