



## OUR PROJECTS

### WETA WATCHER

Develop smart AI camera traps that photograph and identify small animals

### PEPEKETUA ID

Software that identifies individual Archey's frogs (1 of the 3 NZ Native frogs) and facilitates their annual monitoring.

### SPYFISH AOTEAROA

A machine learning and citizen science approach to analyse baited underwater video and estimate fish population inside and outside marine protected areas.

### KOSTER OBSERVATORY

A machine learning and citizen science approach to analyse submarine videos and identify animals living in the deep ocean.

## OUR ACHIEVEMENTS

Weta  
Watcher

01

Developed a camera trap that photographs small animals and provides information that guides wildlife conservation

Weta  
Watcher

02

Recorded over 30 different species with a single monitoring device

Weta  
Watcher

03

Involved 30+ local students with active scientific research

Weta  
Watcher

04

Gauged external interest from researchers, NGOs, government and community

Spyfish  
Aoteroa

05

First successful iteration of AI identifying fish from different footage

Spyfish  
Aoteroa

06

Developed a community science website  
50 volunteers – 700 videos analysed

Spyfish  
Aoteroa

07

Data rangers (4x Worldwide) are improving the AI models to identify fish

Pepeketua  
ID

08

Over 2,000 frog images classified to train the Machine Learning algorithms

Pepeketua  
ID

09

Data Rangers (7x Worldwide) developed an open-source frog similarity recognition

Pepeketua  
ID

10

3 x Machine learning steps:

- Standardisation of frog images (completed)
- Landmark detection (completed)
- Matching of previously identified frogs (first iteration implemented)



Using artificial intelligence to accelerate wildlife conservation

## HOW YOU CAN HELP

### PROJECT SUPPORT

#### WETA WATCHER



What's Next:

- Make a commercially available camera
- More field testing (Maximise energy efficiency)
- Develop a community of users

Support Required:

- Funding for project management, volunteer coordinator and commercialisation
- Data providers and AI platform management
- Ecological projects to field test devices
- Cloud computing
- Volunteers to identify species

#### SPYFISH AOTEAROA



What's Next:

- An open-source platform that connects algorithms, citizens scientists and marine biologists to process the video
- Real-time maps and graphs of fish populations

Support Required:

- Funding to build open-source platform, manage the project and coordinate volunteers
- Volunteers to identify species on underwater footage

#### PEPEKETUA ID



What's Next:

- Model accuracy tests
- Single- vs multi-angle accuracy comparison
- Development of front-end software
- Writing of documentation and guidelines

Support Required:

- Funding to manage the project and coordinate volunteers
- Cloud resources to train more accurate models

### ORGANISATION SUPPORT

Here at Wildlife.ai, we are poised to expand our successes to conservation projects worldwide. In order to take the next steps, our organization must grow in capacity and in our project successes.

Funding support required to keep growing:

- Part-time staff
- Marketing
- Communication/Outreach
- Volunteer Management
- Systems (Financial e.g. Xero)
- Funding/Grants Advisor

PROUD MEMBERS OF



CONTACT

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