



# The quest for species with sound and citizen science

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Acoustic monitoring is a technique used by ecologists to study vocal animal species



- Used to detect presence and identify species rarely seen
- Conducted passively
- Long term, continuous monitoring
- Data are permanent and can be repeatedly analysed



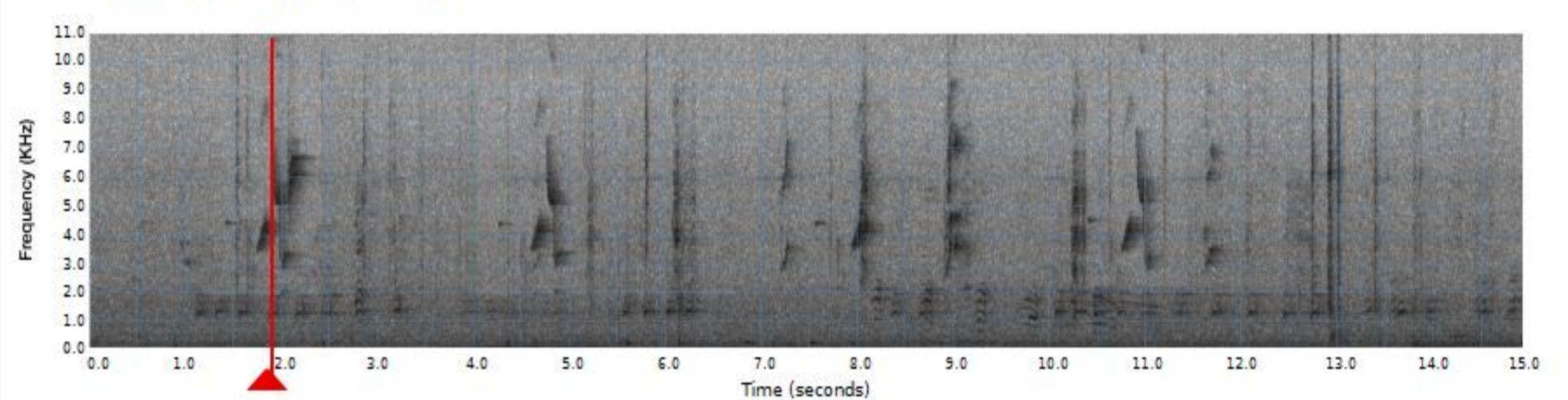
- Acoustic environment is complex due to background noise such as wind or simultaneous sounds
- Species vocalisations vary regionally and in by call type
- Sound recognition software is limited and costly
- Large quantities of data that require slow manual processing

## Project Aim

This research investigates how to design a project that both **engages citizen scientists** with complex faunal acoustics and **provides scientifically informative data**.

## A Prototype Design to Search for Eastern Bristlebirds

PLAY THE AUDIO CLIP



WINTER RECORDING LOCATION: CURRUMBIN WILDLIFE SANCTUARY

DID YOU HEAR THE EASTERN BRISTLEBIRD?

Eastern bristlebird I

HEARD?

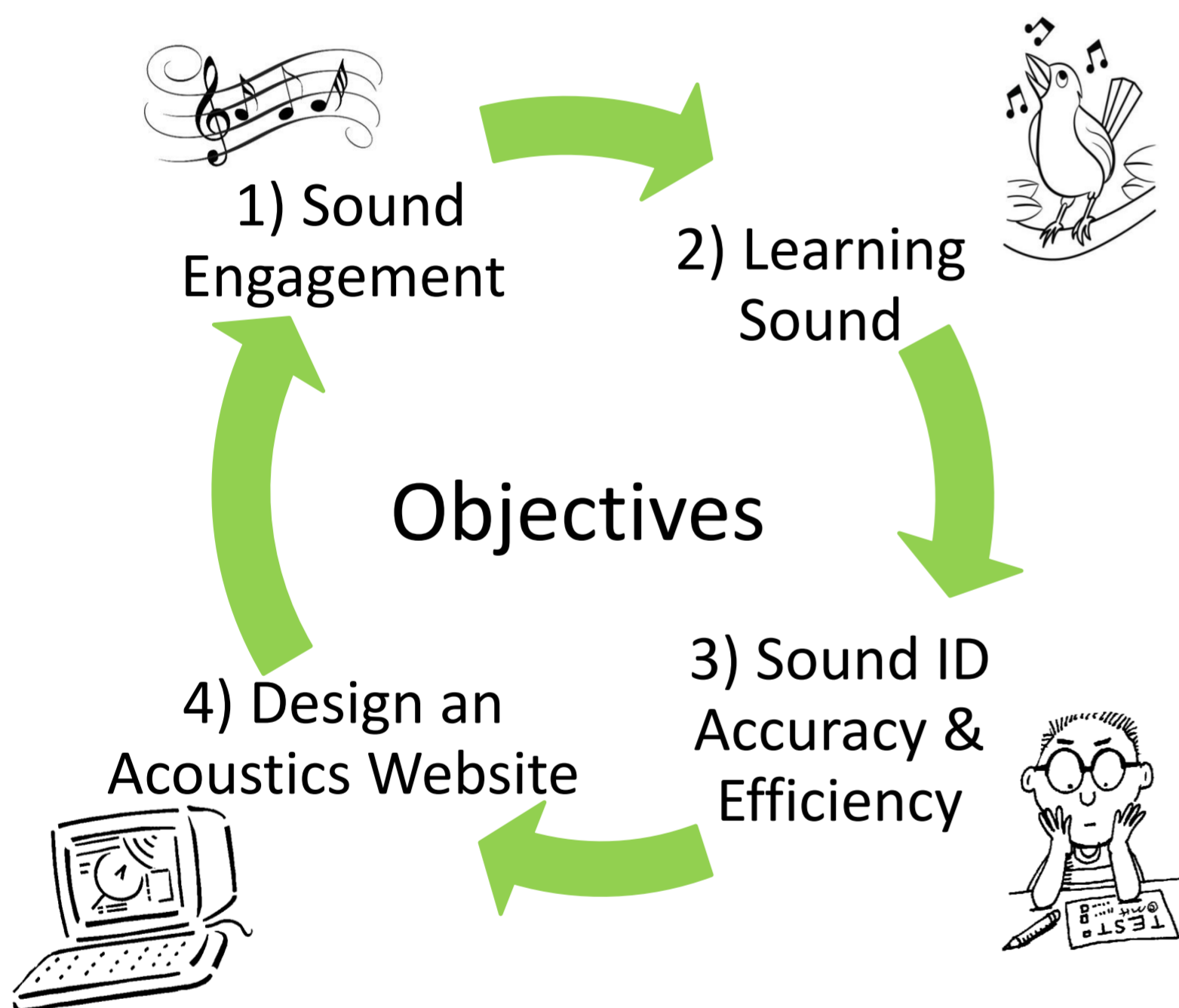
Eastern bristlebird II

HEARD?

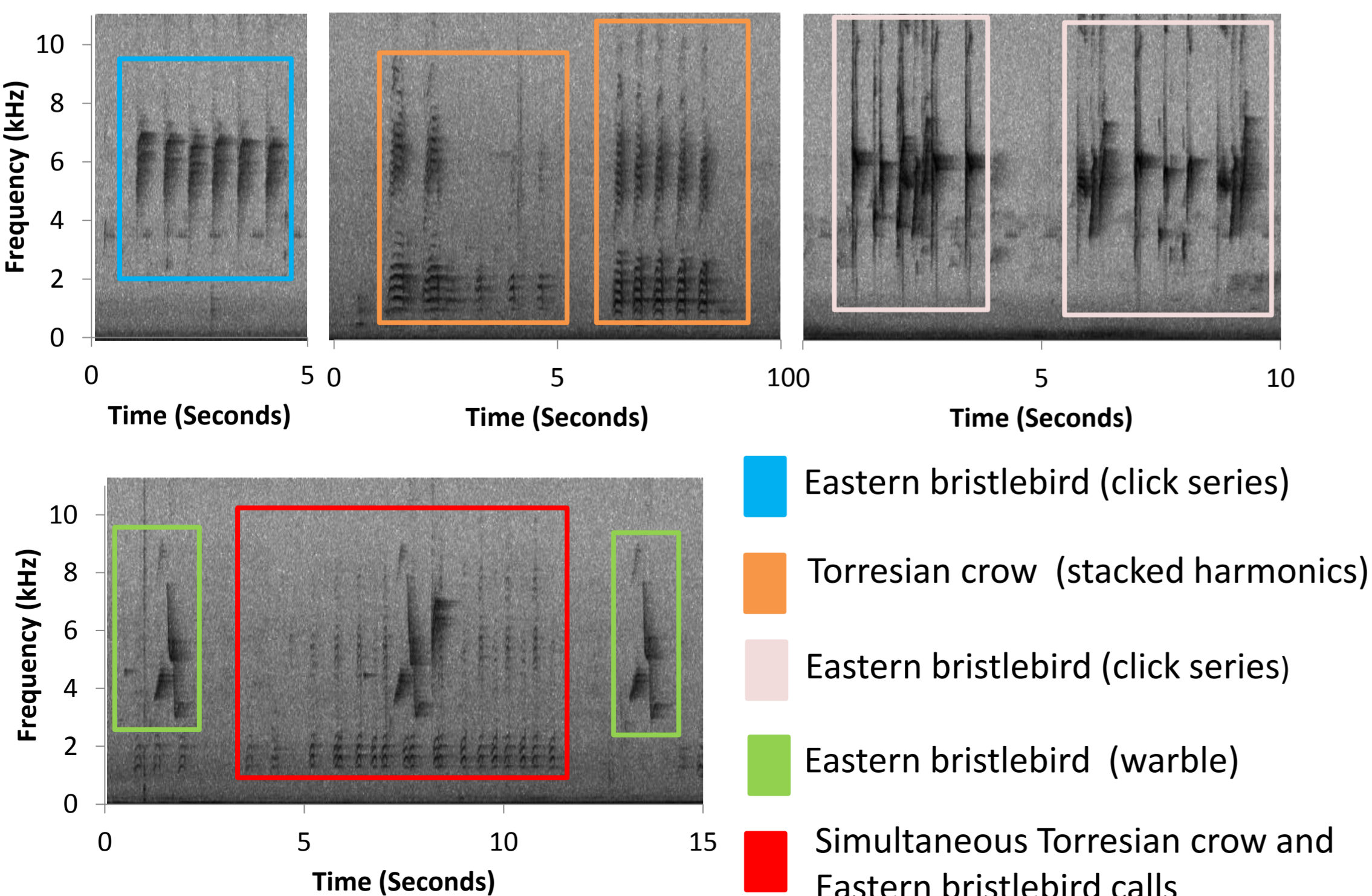
Eastern bristlebird III

HEARD?

NO EASTERN BRISTLEBIRD



## Standard Spectrograms Help to Visualize Sound



## What we can do

An engaging website for evaluating complex acoustic data could allow citizen scientists and researchers to understand distribution patterns of rarely seen, vocal species!

## You're invited to take part!

Provide feedback, get updates, and help test ideas!  
Email me at [jess.cappadonna@gmail.com](mailto:jess.cappadonna@gmail.com)

## Acknowledgements

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