



CODE *for*  
AUSTRALIA

We **understand** that **API** is one of the principal instruments of a **digital strategy**.

We **work together** with enthusiasm to develop good stuff to make **things happen**.

**Please** check these URLs for further information:

<https://vba.dse.vic.gov.au/vba/>  
<https://codeforaustralia.github.io/biodiversity/>  
<https://codeforaustralia.slack.com>

**Keep** in touch!

[biodiversity@codeforaustralia.org](mailto:biodiversity@codeforaustralia.org)



VBAmobile  
-and-  
VBA-species  
APIs

Quick Reference Card

## VBAmobile: A MOBILE TOOL TO OPTIMISE BIODIVERSITY DATA COLLECTION

Victorian  
Biodiversity  
Atlas  
(VBA)

VBA  
API

VBA  
Species  
API

VBA  
mobile

## Victorian Biodiversity Atlas.

### Q: What is the VBA?

A: The VBA is the web-based information system designed to manage information about wildlife in Victoria.

### Q: Which species are included?

A: The VBA encompasses vertebrate and invertebrate animals, fungi, vascular and non-vascular plants from terrestrial and aquatic environments, including marine waters to the three nautical mile statutory limit.

### Q: Who use the VBA?

A: VBA is a tool for government agencies, environmental consultants, researchers and citizens.

### Q: What can they do?

A: Collect and share information about the distribution and abundance of species in Victoria.

## VBA and VBAspecies APIs.

### Q: What is the VBA and VBAspecies APIs?

A: The VBA and VBAspecies APIs are application programming interfaces created from the VBA web-based information system to provide programmatic access to read, write and share information about the Victorian biodiversity data.

## VBAmobile.

### Q: What is the VBAmobile?

A: The VBAmobile is a mobile interface prototype based on the VBA and VBAspecies APIs. Its aim is to improve the collection and availability of biodiversity data with a simple and userfriendly tool.

## The project concept.

Improving the collection and availability of biodiversity data created by DELWP Biodiversity Division together with Parks Victoria.



## The challenge.

Improving biodiversity data flow and ensuring that field naturalists from both the Department, agencies, research organizations, environmental consultants, citizens as well as community groups can share their projects and submit their data and sightings easily to the Victorian Biodiversity Atlas.

## The makers who develop the concept to make it a real idea.



### Code for Victoria

It is a passionate and skilled community that works with government to develop tech-based solutions to solve civic problems.

### Meet the fellows

**Verónica Farías.**

*BackEnd Developer/Designer & UX.* Veronica has a maker soul. She strongly believes that technology is an essential element that helps to improve people's quality of life and the environment.

Through our work, we believe we can lend not only our voices, but our hands to drive collaboration and transparency, accelerate economic growth and reanimate citizenship.

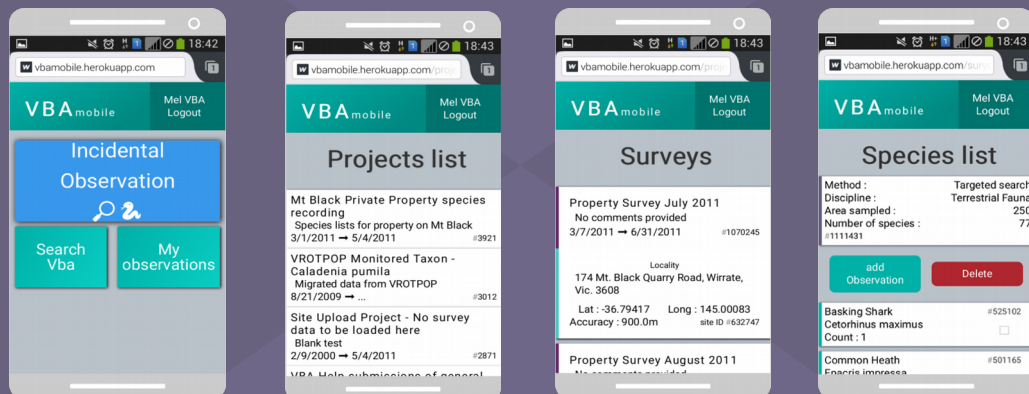
**Johan Codinha.**

*Web Developer & UX Designer.*

Johan is passionate about making things and he is ready to tackle public service challenges!

## How the real idea looks like?.

**VBAmobile:**  
Workflow interfaces to add a species observation.



Home → Projects → Surveys → Species

Live Demo: <http://vbamobile.herokuapp.com/>

## How the real idea looks like?.



**VBAspecies:**  
Getting information of the APIs.

```
GET /species
200 OK
{ ORIGIN: 'Introduced',
  PRIMARY_DISCIPLINE:
  'Aquatic fauna',
  SCIENTIFIC_NAME:
  'Acanthogobius flavimanus',
  COMMON_NAME: 'Yellowfin
  Goby',
  TAXON_TYPE: 'Fish',
  TAXON ID: '5016'},
```

Listing all species list

```
GET /species/11113
200 OK
{ ORIGIN: null,
  PRIMARY_DISCIPLINE:
  'Terrestrial fauna',
  SCIENTIFIC_NAME:
  'Trichosurus vulpecula',
  COMMON_NAME: 'Common
  Brushtail Possum',
  TAXON_TYPE: 'Mammals',
  TAXON ID: '11113' }
```

Listing a species by ID

Further Information: <https://github.com/CodeforAustralia/VBAspecies>