

# Orokonui Ecosanctuary partnership



DESIS Otago Otago Polytechnic New Zealand



Partner:
Orokonui Ecosanctuary

DESIS Otago personnel: Ass Prof Caro McCaw Adon Moskal Morgan Oliver

Supporters: Halo Project Otago Museum



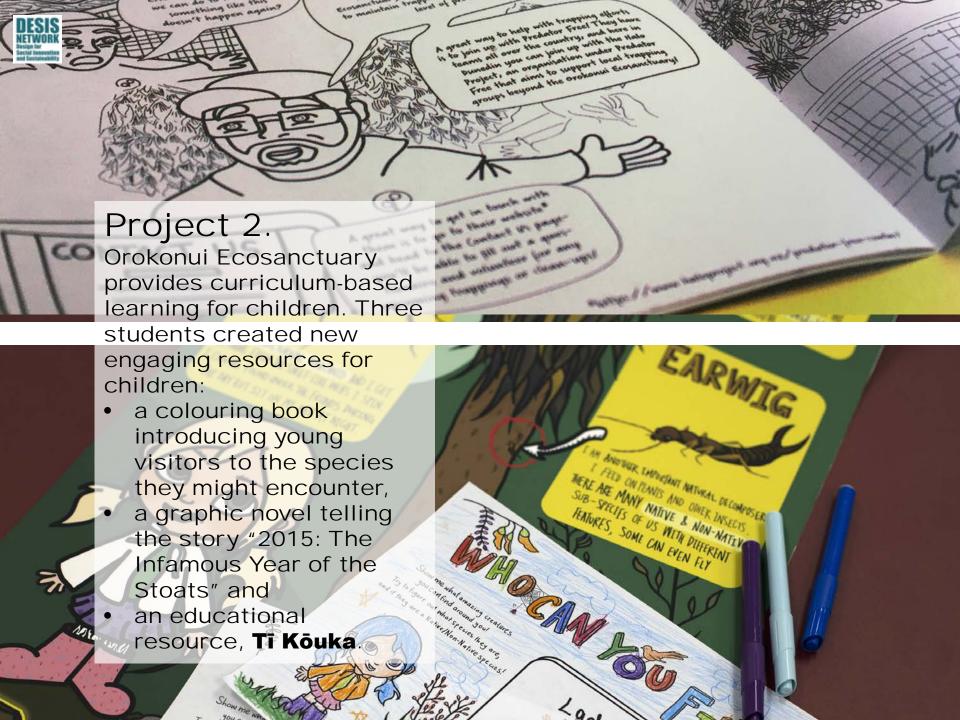


#### Context.

Orokonui Ecosanctuary, about 20 km north of Dunedin city, protects multiple species of plants and animals from predators. A predatorproof fence surrounds 307 hectares of forest, pests have been removed, habitat enhanced with weed control and planting, and many rare and endangered species reintroduced. A not-forprofit trust runs the Ecosanctuary.









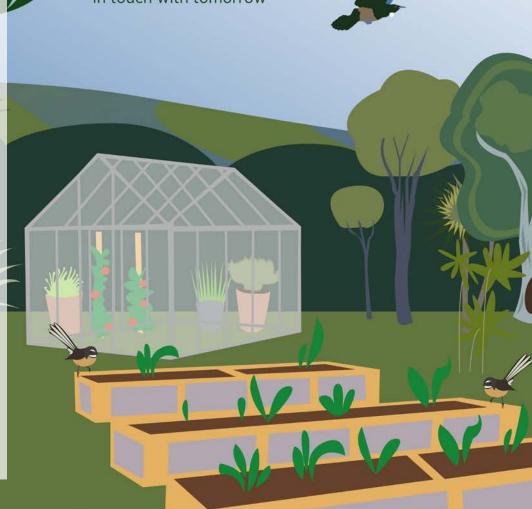


## Project 3.

#### Kākā breeding at the

Orokonui Ecosanctuary are flying out over the predator-proof fence. Many perils lie beyond, including stoats, domestic pets, and humans.

To improve the chances of survival for these birds, two students created a Virtual Reality environment teaching about kākā and a web-based game for members of the public to play.





## Activism and Civic Participation



#### Project 3.

In the web-based game players have to make choices, for example about food, planting and fencing, that can make a residential property kākā friendly or not. By playing the game people will learn how to look after kākā, to create a "social halo" around the ecosanctuary where the birds will still be safe. A new website will feature this game and the Virtual Reality environment along with a web portal for people to report sightings of kākā.



## Social Interactions and Relations





Project 2.

The Orokonui Ecosanctuary, is looking forward to using the new resources to increase children's engagement. A sponsor has covered the costs of production of 10,000 colouring books, which are in use already.

Building children's knowledge and empathy for species will help create a sense of community with them.



# City and Environmental Planning



Project 1.

The gate sensor was envisaged to help keep juvenile kiwi, New Zealand's iconic flightless bird, safe in their enclosure. The project has been expanded so that the students are now working on devices for all the different gates in the predator-proof perimeter fence as well.

Project 3.

This project aligns with the Predator Free Dunedin 2050 campaign.

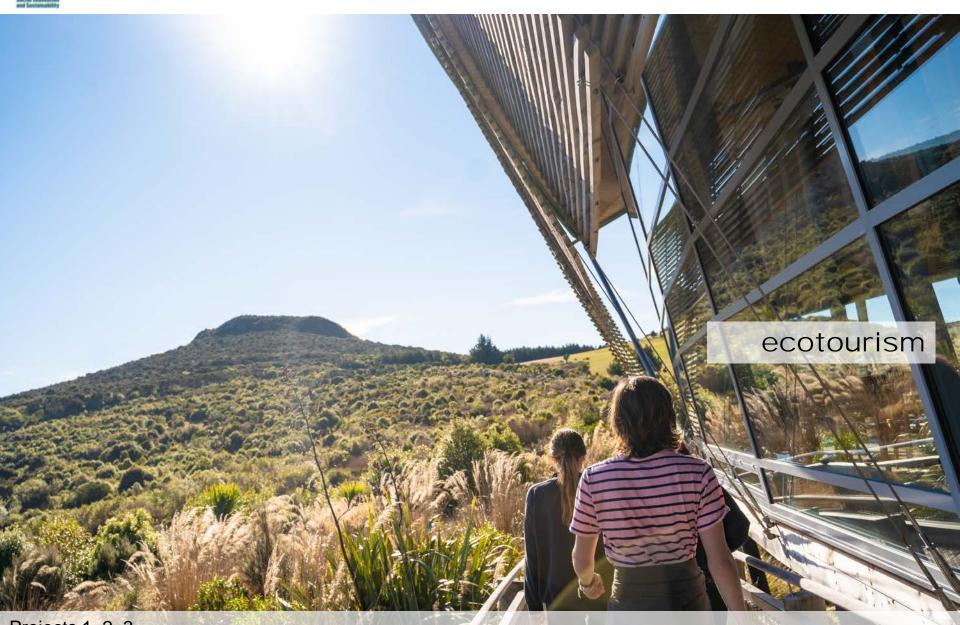




Projects 1, 2, 3. Students learn project management and client engagement skills as well as applying what they have been learning.



## **Job Creation**



Projects 1, 2, 3.

Ecotourism is a growth sector in Dunedin, including for cruise ship visitors.

Storytelling and Visualisation



Project 3.

The Virtual Reality environment created by the students enables users to see kākā fly into a forest clearing to feed. The kākā talk to each other, so users can hear them tell their stories. Storytelling provides a powerful way to learn about the birds.



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