
Love
Rimu-
rimu

Love Rimurimu Project

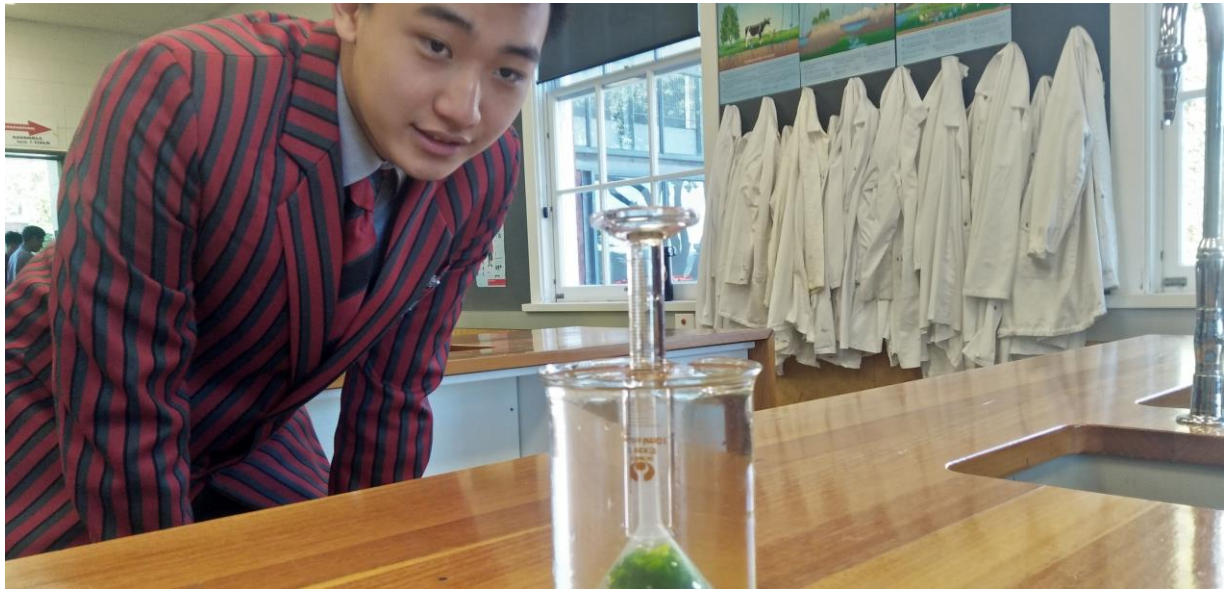
- **Aim of project**
- Building on Experiencing Marine Reserves – focus on rimurimu (seaweed) & climate change action.
- Engage community and students with the importance and role of seaweed.
- Connect young people with scientists, mana whenua and local government expertise
- Find pathways for community engagement, restoration, utilisation and research.

TERM 1 – GETTING TO KNOW RIMURIMU.

TERM 1

Experiencing Marine Reserves

Te Kura Moana



TERM 2 – HUMAN IMPACTS & CLIMATE CHANGE


Co-culture
Rueben Webley


ter Quality
taminants
rients
hogens
vy Metals
iment
drocarbons
drology
nperature

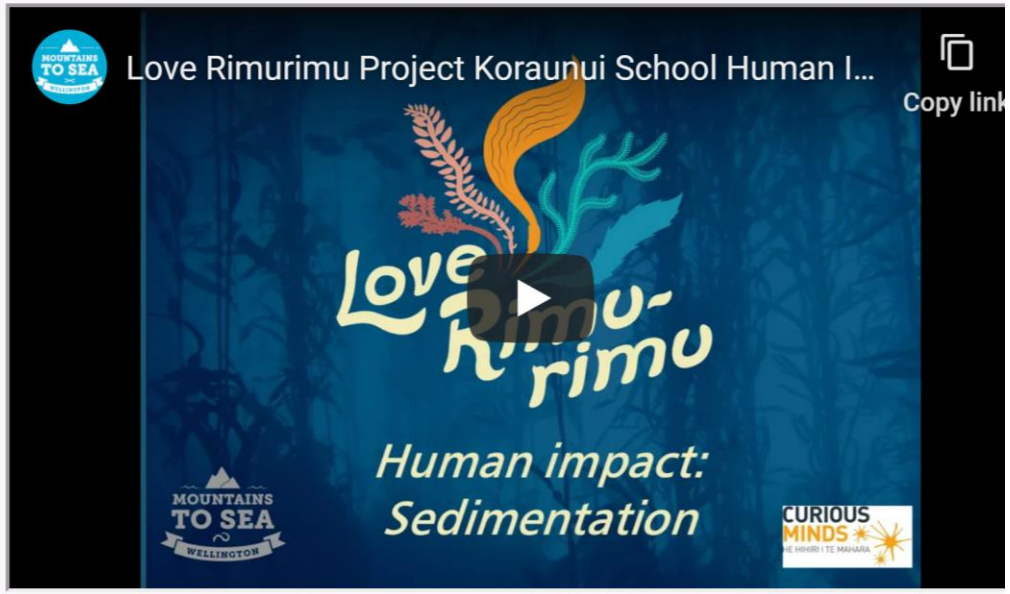

Living through the haze
Mareike Babuder
A story about SEDIMENTATION and SEAWEEDS
RimuRimu Project | 2020
Mareike Babuder

Learning Activity 3 - Human Impact: Sedimentation.

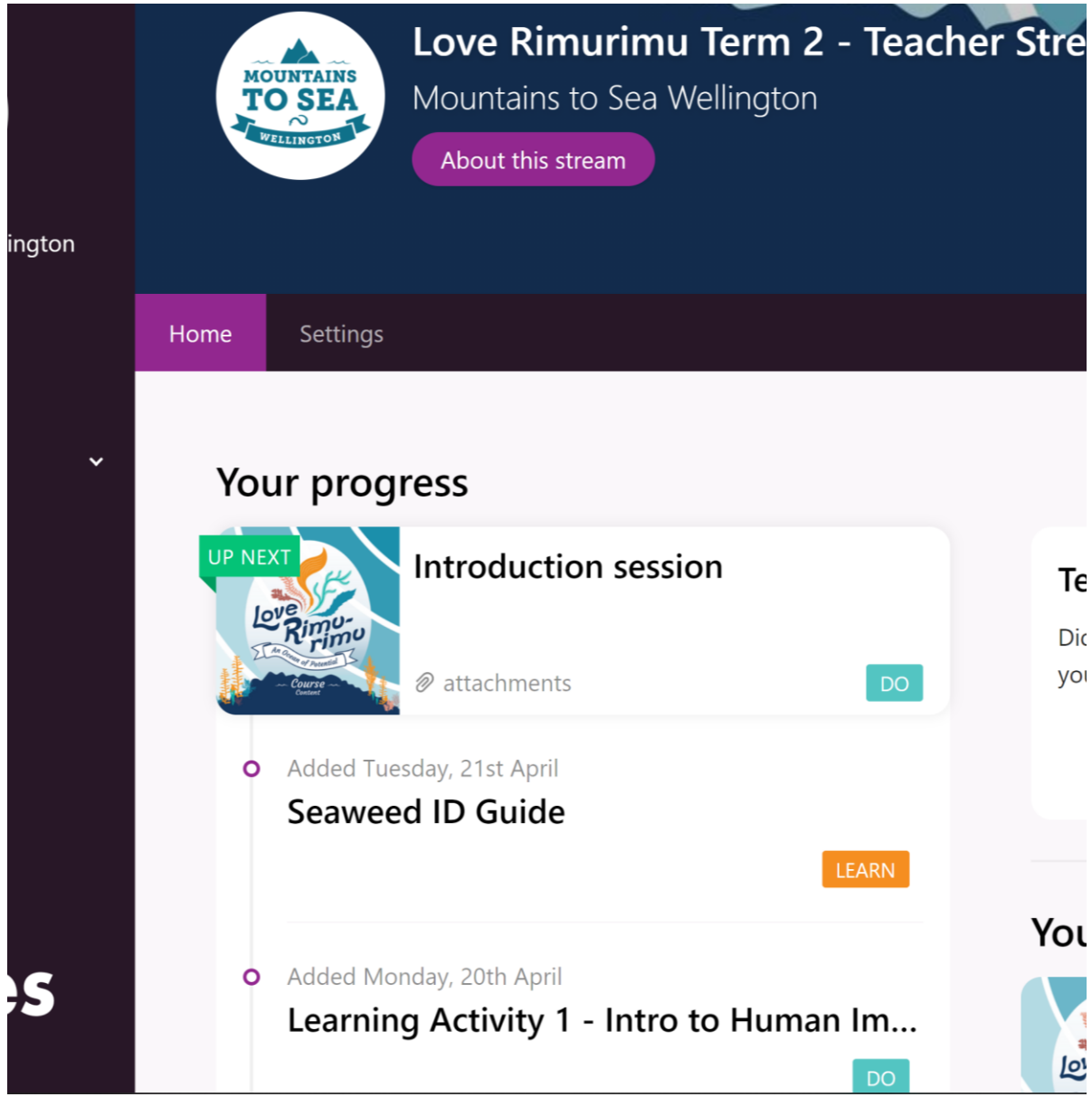
This session will explore the human activities that cause sedimentation and the impacts sedim
distribution of seaweed in our marine environment.

To complete this session:

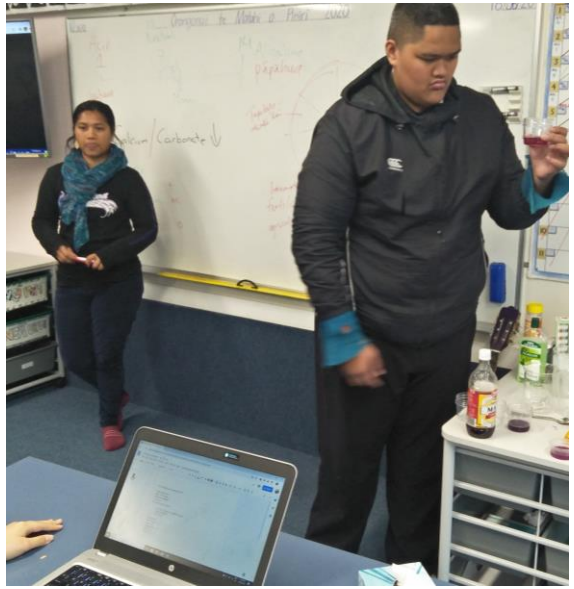
1. Join the MTSW livestream or watch the recording.



2. Complete the Sedimentation Kahoot Quiz.
3. Follow up the learning with these videos: Mareike's Living Through the Haze video and Sustainable Seas national marine experiment and Estuary issues and protection on sed
4. Students can track sediment plumes through Cawthrone Eye Satellite and participate o Sedimentation Citizen Science project.




Summary of climate change impacts
on seaweed.

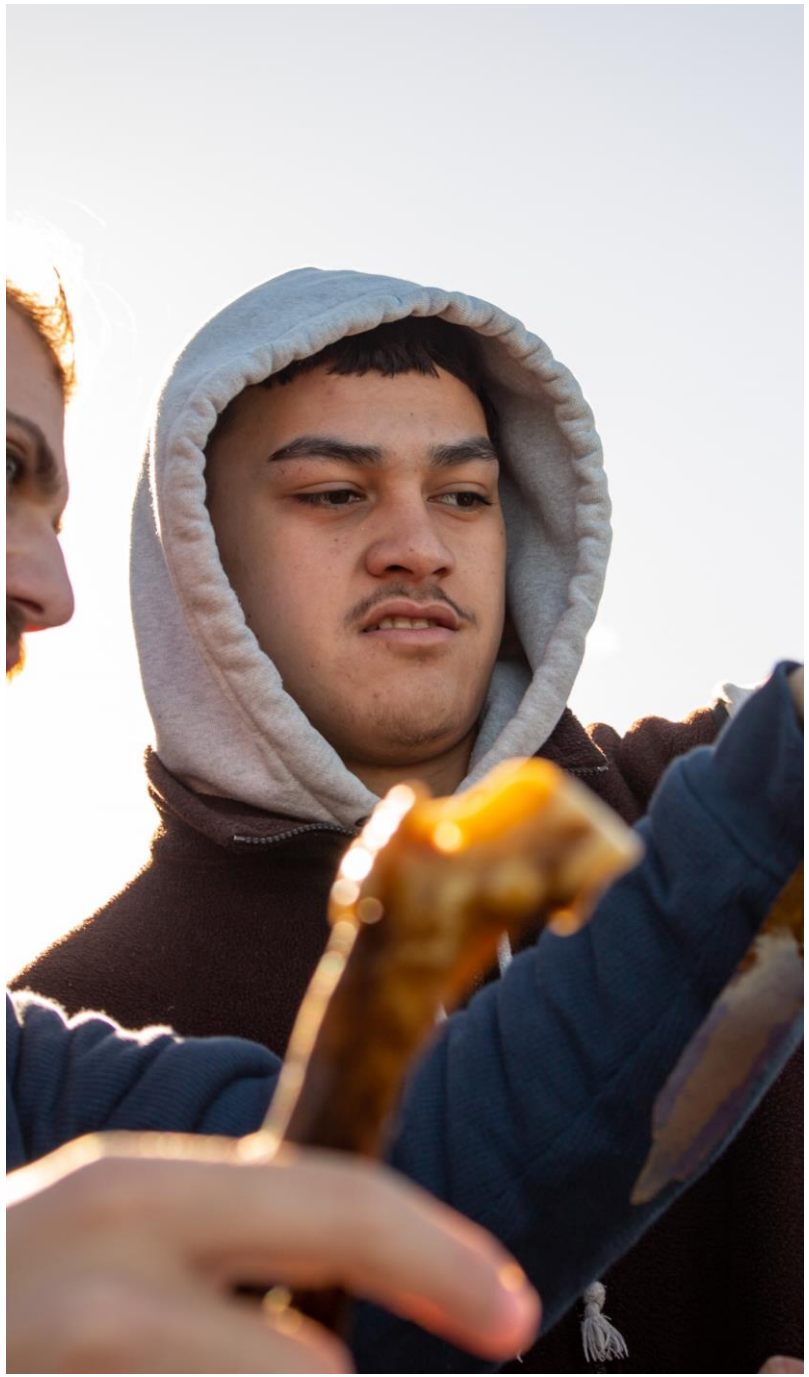


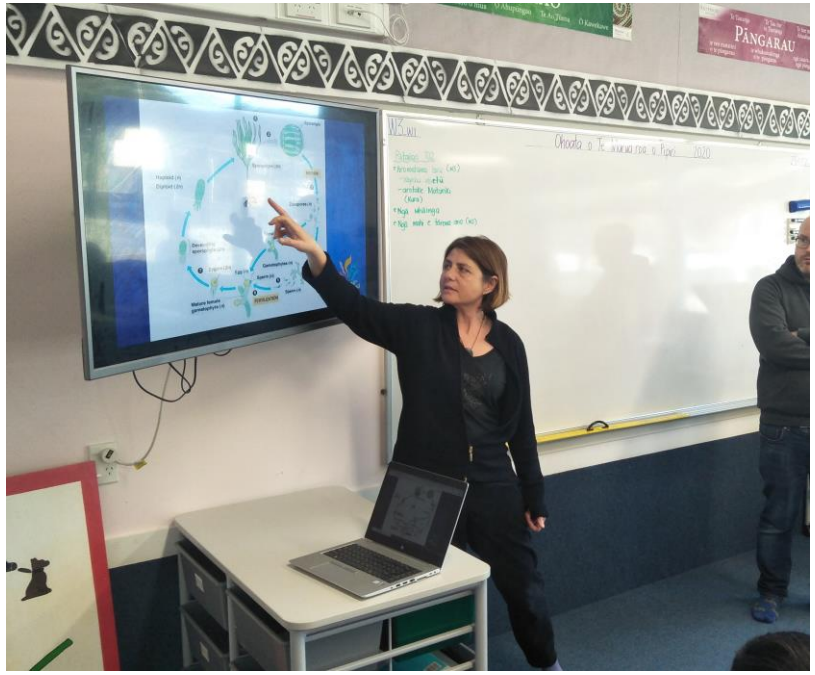
TERM 3 – USES & REPRODUCTION


MOUNTAINS
TO SEA


Te Aho Tū Roa


Take a
Break

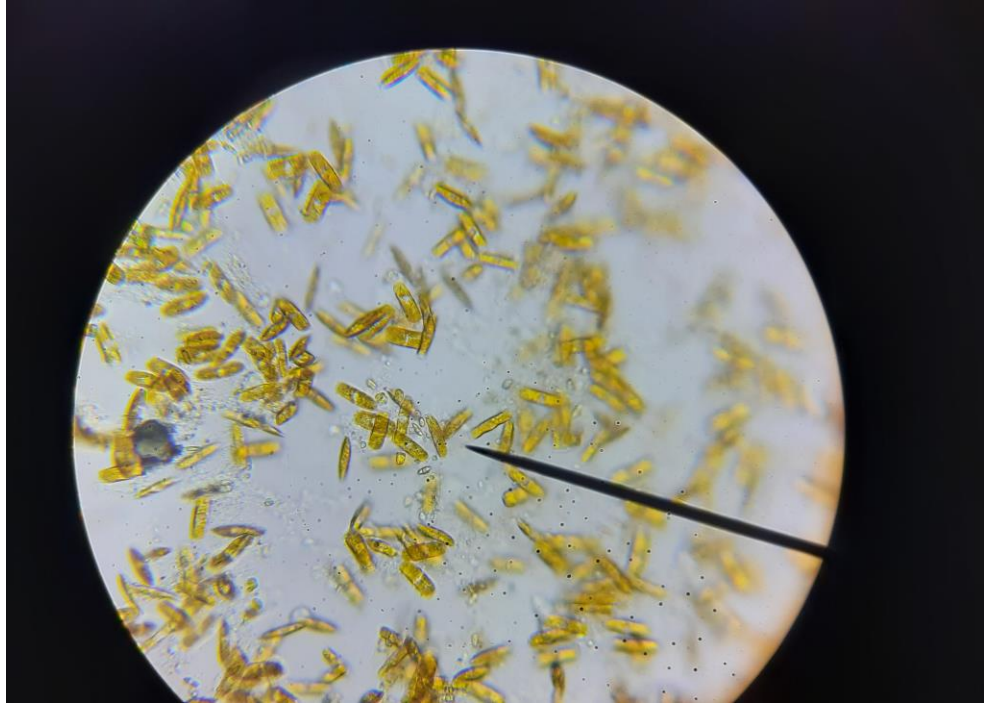


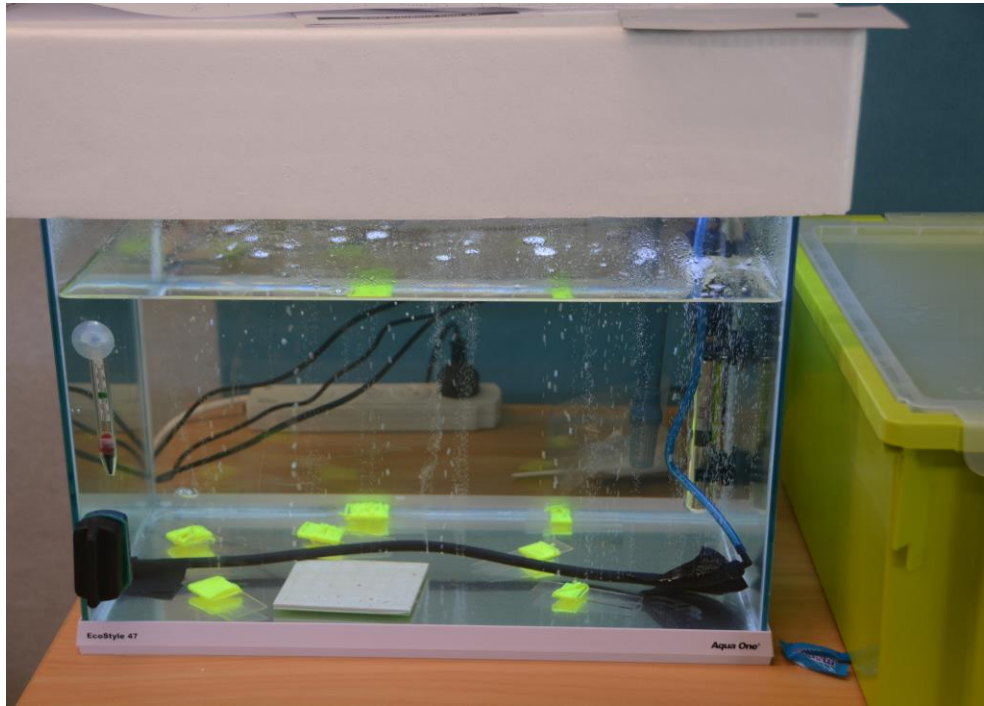

PĀNGARAU


Te Aho Tū Roa


te Aho Tū Roa


Faulty




EcoStyle 47
Aqua One

TERM 4 – TAKING ACTION


Garden
Gnomes


RIMURIMU

Highlights

- **<u>Outcomes</u>**

- 120 students became seaweed experts, and engaged their wider community
- Partnership with Te Aho Tu Roa - resources created in te reo Māori -
- 4 Community snorkels held - with a seaweed focus.
- Strong science collaborations with NIWA & Vic Uni & Greater Wellington
- Developed a completely new programme.
- Many new resources available in online portal – Make Ripples.

What's next?

WWF funding for 3 classes in 2021.

Science Learning Hub – Development and refinement of resources/programme content.

National Expansion – resource training to the EMR team.
A larger bid to Unlocking Curious Minds? Who's keen?

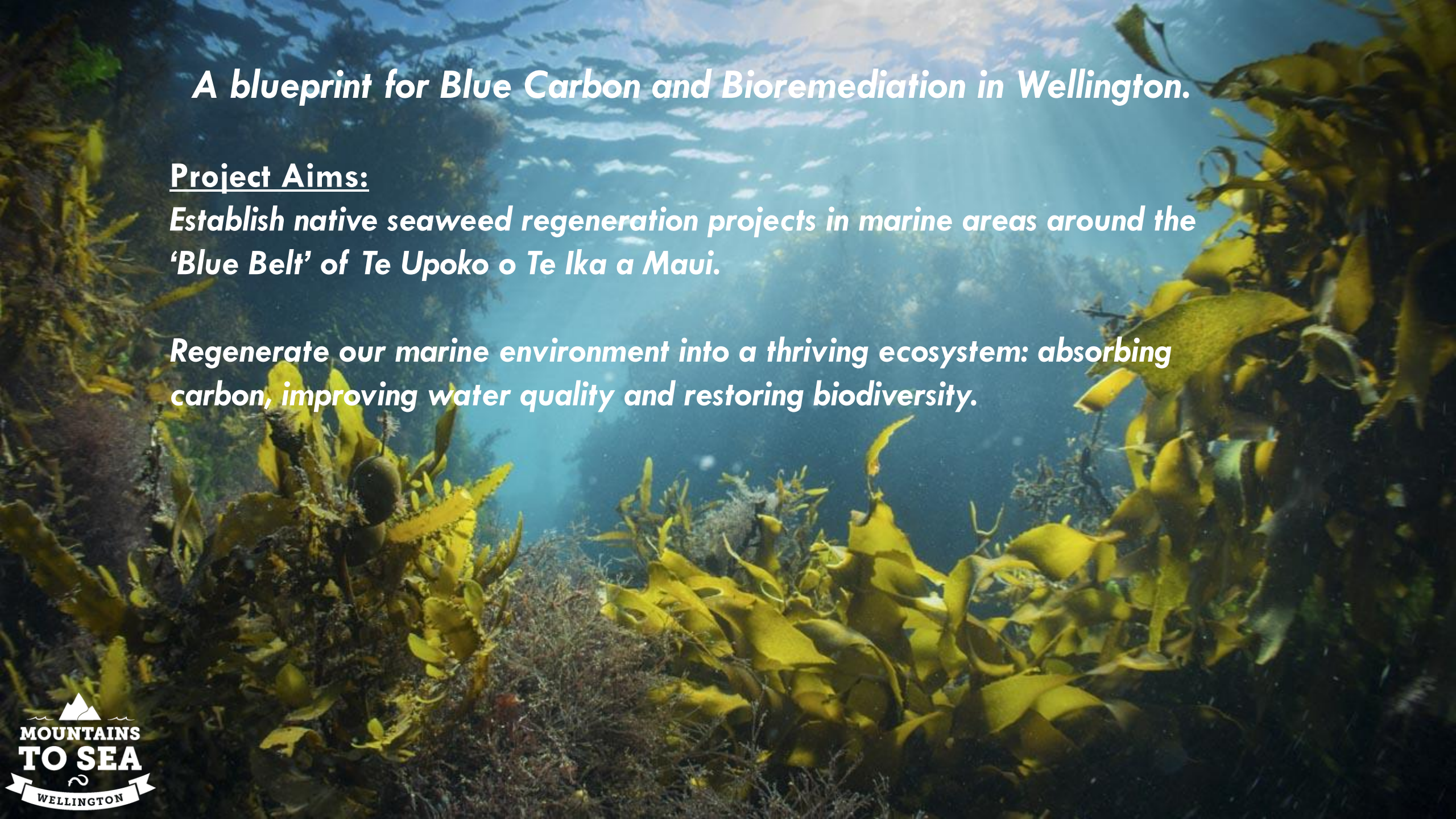
Restoration Sites in Wellington – Long term funding for restoration – The Love Rimurimu Restoration Project.

Restoring Wellington's Underwater Forests

TOGETHER FOR A SUSTAINABLE FUTURE

Zoe Studd

24th of February 2021



A blueprint for Blue Carbon and Bioremediation in Wellington.

Project Aims:

Establish native seaweed regeneration projects in marine areas around the 'Blue Belt' of Te Upoko o Te Ika a Maui.

Regenerate our marine environment into a thriving ecosystem: absorbing carbon, improving water quality and restoring biodiversity.

MOUNTAINS TO SEA WELLINGTON

PROJECT OUTCOMES

Four Seaweed and Marine Restoration in Te Upoko o te ika a Māui

Development of a ‘tool kit’ for marine restoration: planning, technical support, education and research which can be utilised in other regions.

Mana whenua leadership of marine restoration priorities – co-design

Knowledge Building - supported by leading scientists and researchers through Centre of Research Excellence

Advocacy at central and local government for marine restoration and as part of ‘Blue Belt” priorities.

Exploration of innovative harvest uses, and other economic/ecological opportunites.

WHY SEAWEEDS?

Ngahere o te moana

MOUNTAINS TO SEA WELLINGTON

STATUS OF WELLINGTON HARBOUR

Degradation & Loss !

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MULTIPLE STRESSORS

- Overfishing
- Kina barren
- Pollution
- Sedimentation
- Climate change

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RESTORATION

A nature-based solution

Methodologies

Transplantation

Re-seeding
('Green gravel')

Artifical reefs

Aquaculture lines

BENEFITS OF HEALTHY SEAWEED FORESTS

Blue carbon and bioremediation

Increased carbon sequestration, biodiversity & abundance,...

Community resilience

Coastal protection, food security, skills creation

Community Advocacy

Education, community buy-in, regulatory structure

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Setting up for *success*

- Our team
- Mana Whenua
- Science experts
- Central and local government
- Community groups
- Aquaculture companies

WHAT WE CAN *build* ON

Community-Snorkels & Public Info Events

Love Rimu-rimu

Educational Projects

CoRE research + Seaweed & Kina Monitoring

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MANA MOANA
MANA WHENUA

- Site selection guidance
- '*Check in*' process
- Opportunities to engage and benefit

MOUNTAINS TO SEA
WELLINGTON

HOW WE ARE GOING TO DO IT

WHO BENEFITS?

MOUNTAINS TO SEA WELLINGTON

Carbon Sequestration & Ecosystem Health

CO_2 absorption (OA reduction), increase in biodiversity and abundance of species

Knowledge Building

Toolkit for restoration, scientific data, community engagement, aquaculture

Opportunities

Employment pathways, innovative uses, Blue Carbon credits, ecological enterprise

MOUNTAINS TO SEA WELLINGTON


MOUNTAINS
TO SEA
WELLINGTON
Te Aho Tū Roa

Challenges WE MIGHT FACE

Environmental

- water quality
- kina

Methodology

- re-seeding?
- translocation?

Investment and **Policy & Advocacy** settings

MOUNTAINS TO SEA WELLINGTON

Thank you

greater WELLINGTON
REGIONAL COUNCIL
Te Pane Matua Taiao

MOUNTAINS TO SEA
WELLINGTON

WELLINGTON UNDERWATER CLUB

VICTORIA UNIVERSITY OF WELLINGTON
TE HERENGA WAKA

PROJECT BASELINE
WELLINGTON

Love Rimu-rimu

NIWA
Taihoro Nukurangi

TISBE LTD AQUACULTURE & ENVIRONMENTAL CONSULTING