

NŌ TE AO TŪROA NGĀ RONGOĀ

Choose NATURE BASED SOLUTIONS



MOUNTAINS AND FORESTS

PROBLEM Intense rainfall causes landslides, soil loss, erosion.

SOLUTION Restore native forests and shrublands with native planting, weeding, and pest control to stabilise soils, slow water run-off, and store carbon.

PROBLEM Forest wildfires lead to loss of life and essential infrastructure.

SOLUTION Replace pine plantations with more fire-resistant native forests. Restore wetlands to create natural wildfire breaks and buffer zones.

RIVERS AND STREAMS

PROBLEM Flooding of residential and farmed areas causes risk to life and loss of assets.

SOLUTION Make room for rivers by restoring natural flood plains. Restore wetlands, and plant native species, to absorb floodwaters and filter run-off.

PROBLEM Drought and over-extraction risks water supply.

SOLUTION Sustainably manage catchments from mountains to sea to restore natural water flow. Restore wetlands and plant native species to slow water evaporation.

FARMLAND

PROBLEM Removal of indigenous vegetation leads to landslides, erosion, water pollution.

SOLUTION Restore waterway margins, fence remnant native bush, plant natives, manage pests, and carry out browsing mammal control to stabilise vulnerable hillsides.

PROBLEM Flooding or drought leads to loss of assets, crop yield reduction, and business disruption.

SOLUTION Rewet and restore drained wetlands, plant native bush, and use restorative farming techniques to improve climate resilience and slow water run-off.

CITIES AND TOWNS

PROBLEM Intense rainfall causes flooding and stormwater run-off.

SOLUTION Make space for water to flood safely, daylight streams, use porous surfaces. Construct urban wetlands, bioswales, and rain gardens to capture and filter stormwater run-off.

PROBLEM Urban heat islands lead to heat stress for people and nature.

SOLUTION Expand green spaces in and around cities with native plantings, create urban forests, suburban canopies, and living roofs.

COASTS AND OCEANS

PROBLEM Rising sea levels, storm surges, and coastal erosion cause loss of land, livelihoods, and assets.

SOLUTION Restore coastal dunes, wetlands, and rocky reefs to buffer coasts and protect communities.

PROBLEM Degraded coastal ecosystems are leaving communities vulnerable to flooding.

SOLUTION Restore mangroves, seagrass meadows, and salt marshes to capture blue carbon, protect infrastructure, and boost biodiversity.

REASONS TO CHOOSE NATURE-BASED SOLUTIONS

- 1 They protect built infrastructure with multiple co-benefits for communities and nature. No negative consequences.
- 2 They align with natural ecosystem processes and use nature's innate capacity to restore itself. Don't require intense human intervention.
- 3 They are adaptable to New Zealand conditions. Can be co-designed with mātauranga Māori. No harm to native habitats.