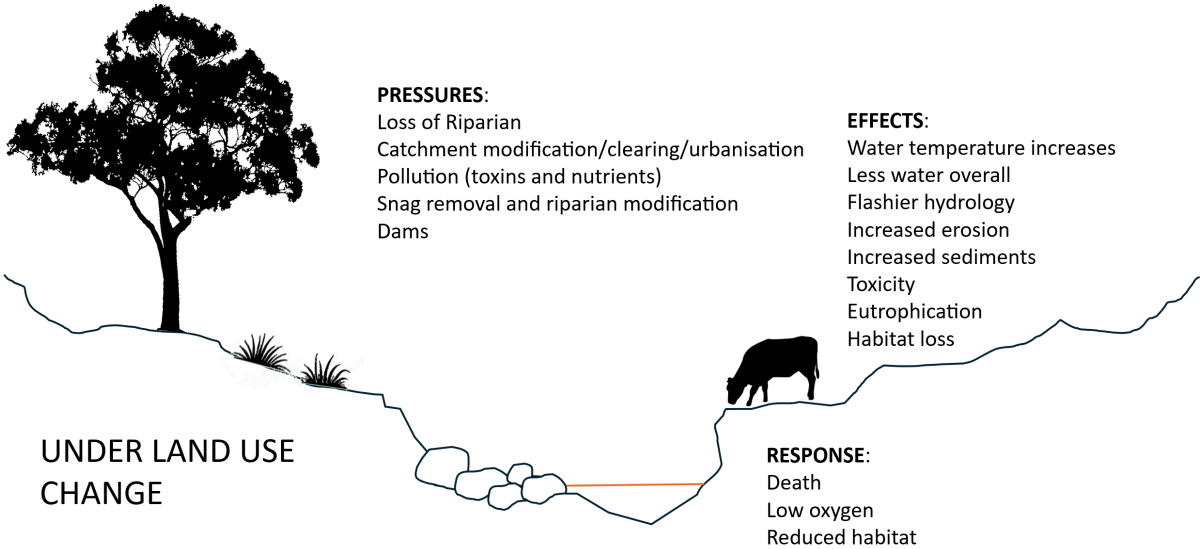
Riparian zones, River health and Climate Change

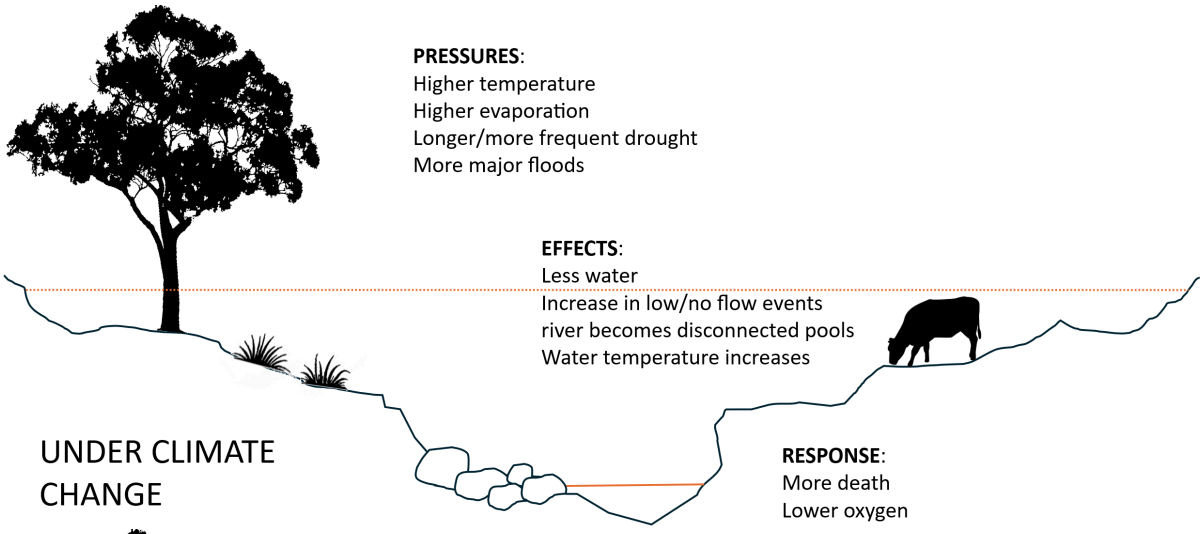


PRESSURES:
Loss of Riparian
Catchment modification/clearing/urbanisation
Pollution (toxins and nutrients)
Snag removal and riparian modification
Dams

EFFECTS:
Water temperature increases
Less water overall
Flashier hydrology
Increased erosion
Increased sediments
Toxicity
Eutrophication
Habitat loss

UNDER LAND USE CHANGE

RESPONSE:
Death
Low oxygen
Reduced habitat
Increased predation and competition

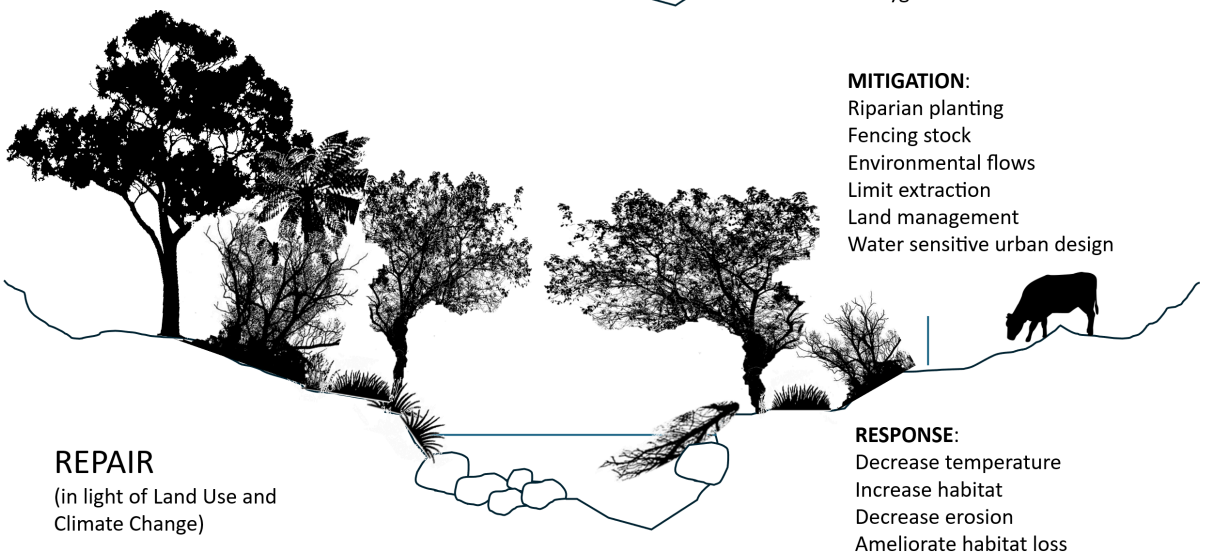


PRESSURES:
Higher temperature
Higher evaporation
Longer/more frequent drought
More major floods

EFFECTS:
Less water
Increase in low/no flow events
river becomes disconnected pools
Water temperature increases

UNDER CLIMATE CHANGE

RESPONSE:
More death
Lower oxygen



MITIGATION:
Riparian planting
Fencing stock
Environmental flows
Limit extraction
Land management
Water sensitive urban design

REPAIR
(in light of Land Use and Climate Change)

RESPONSE:
Decrease temperature
Increase habitat
Decrease erosion
Ameliorate habitat loss
Reduce turbidity and nutrient/toxicants
Increase Carbon storage

Landcare Tasmania

NATIONAL Waterbug Blitz

HUON VALLEY COUNCIL

SUPPORTED BY Tasmanian Government