

CAPTure: Catchment Action Prioritisation Tool



Pūkorokoro catchment, Firth of Thames.

About CAPTURE

Through Fonterra and DOC's Living Water initiative, Landsystems has recently developed the Catchment Action Prioritisation Tool (CAPTURE). The primary intention of CAPTURE is to help catchment landowners make decisions about mitigations on their farm and collectively as a catchment, to effectively work towards catchment water quality goals.

CAPTURE is not a silver bullet for solving water quality issues, nor does it provide an alternative to regulation. However, using CAPTURE enables catchment groups to work towards common catchment water quality goals and understand how their land contributes to the catchment water quality picture.

How it works

CAPTURE is not really a model as such, more a spatial (GIS) framework that brings together data from models, catchment surveys and mapping in a way that is easier for catchment landowners to understand, visualise and make decisions on. A key part of CAPTURE is working with the landowners and practitioners in the catchment to keep it as real as possible.

Key components of CAPTURE include:

- **Threat layers** – steady state layers based on model data showing where contaminants from the land (such as nutrients and sediment) come from in the catchment.
- **Mitigation layers** – based on a catchment defined suite of mitigations, showing where specific mitigations can work in the catchment.
- **Reduction and cost outputs** – show where the greatest reductions in threats can be achieved and how much the mitigations to achieve the reductions are likely to cost.

Progress so far

As well as assisting farmers to work collectively towards catchment Water quality goals, CAPTURE has helped with farm environment plans, funding applications and working alongside regional council.

The initial pilot project developed CAPTURE for the Pūkorokoro catchment. You can view the project report [here](#).