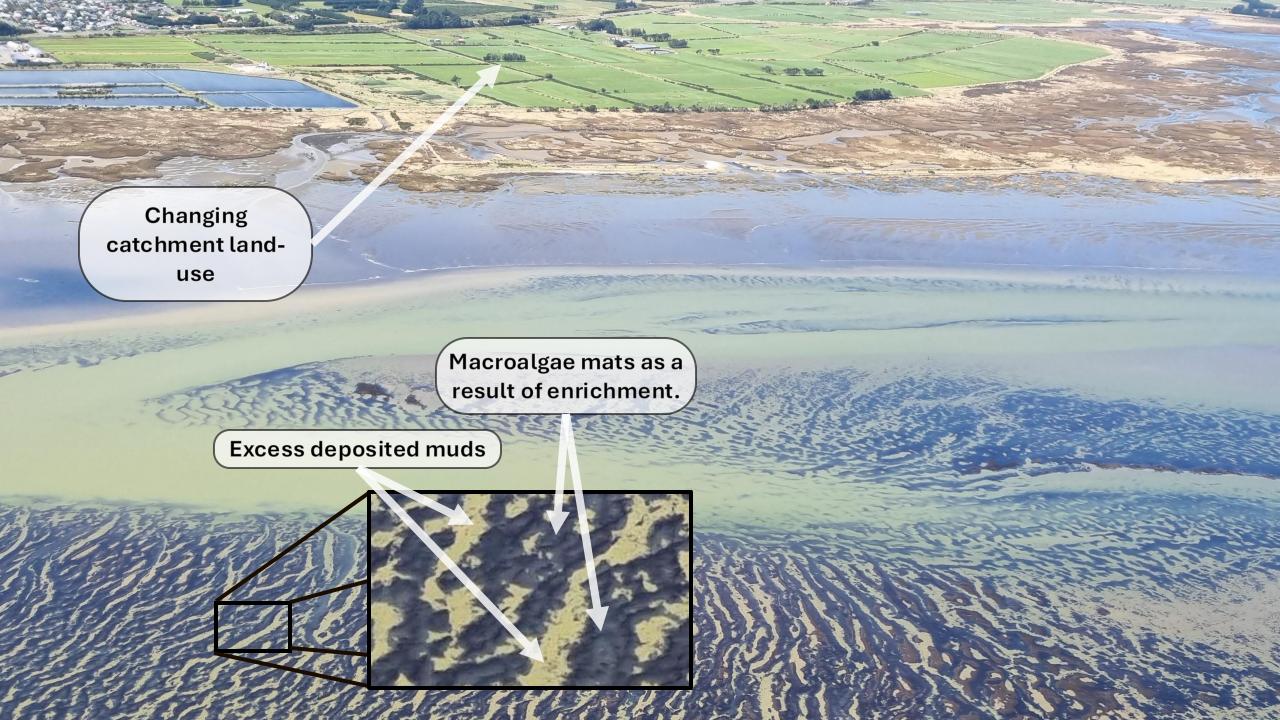
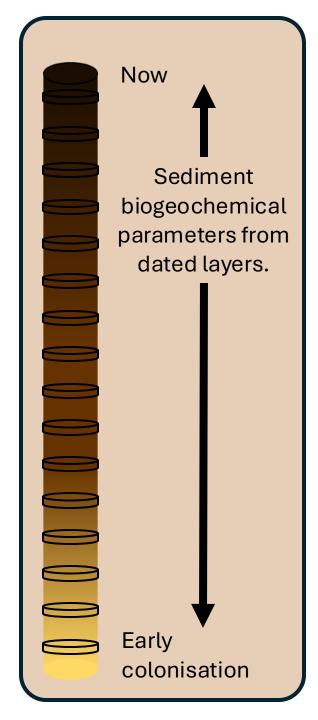


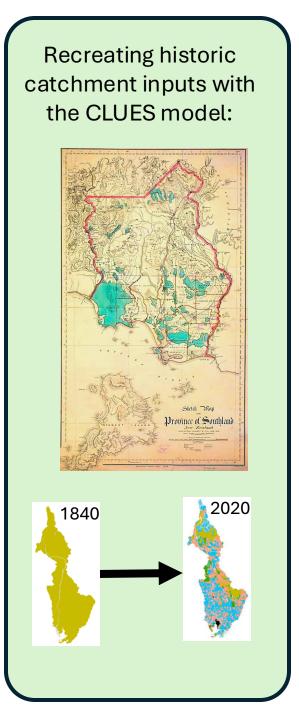
Hindcasting estuary ecological states using sediment cores, modelled historic nutrient loads, and a Bayesian network for informed management.

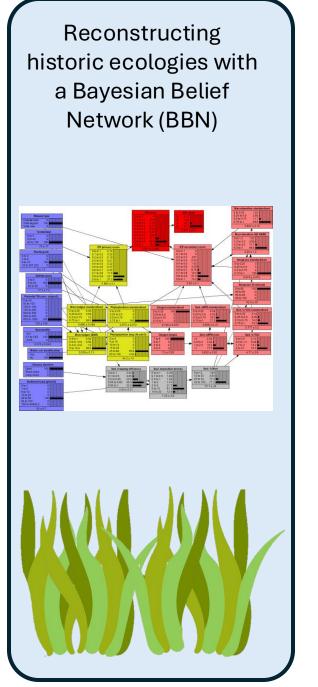
Rachel Hale, John Zeldis, Bruce D. Dudley, Arman Haddadchi, David Plew, Ude Shankar, Andrew Swales, Keryn Roberts, Sorrel O'Connell-Milne and Piet Verburg



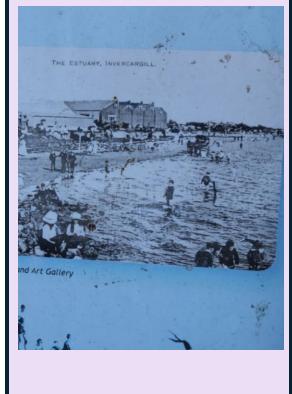


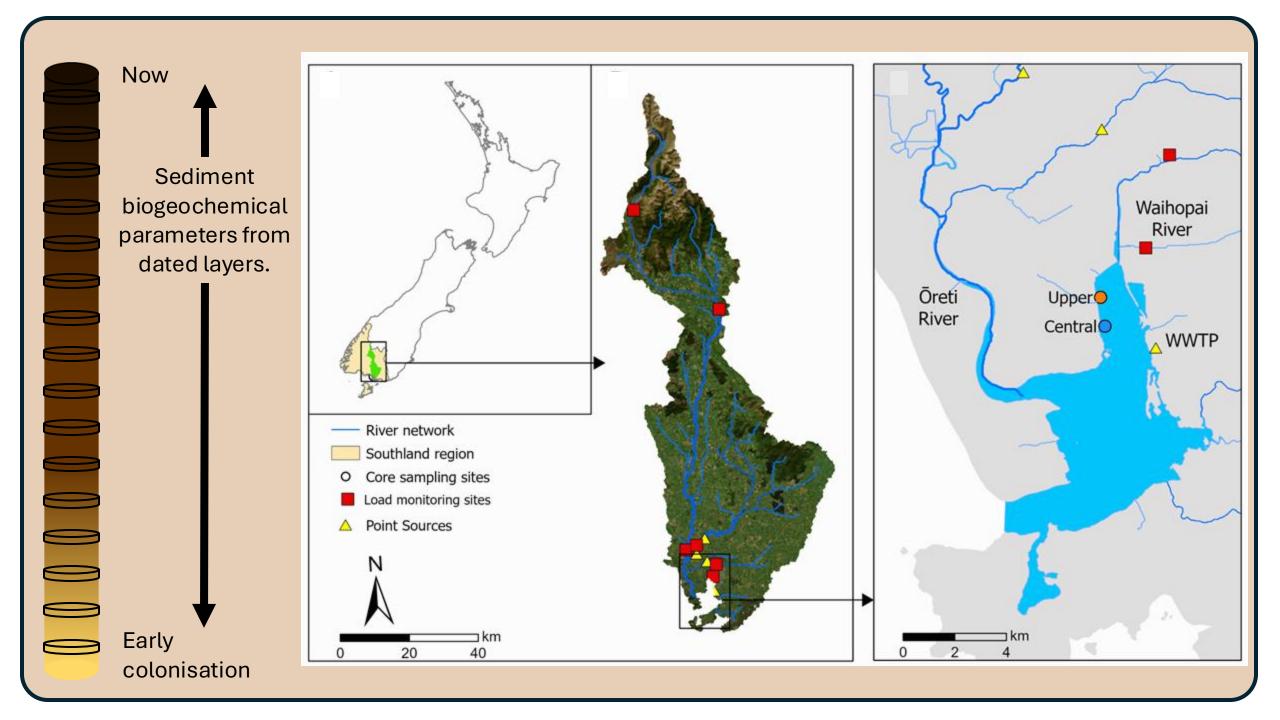


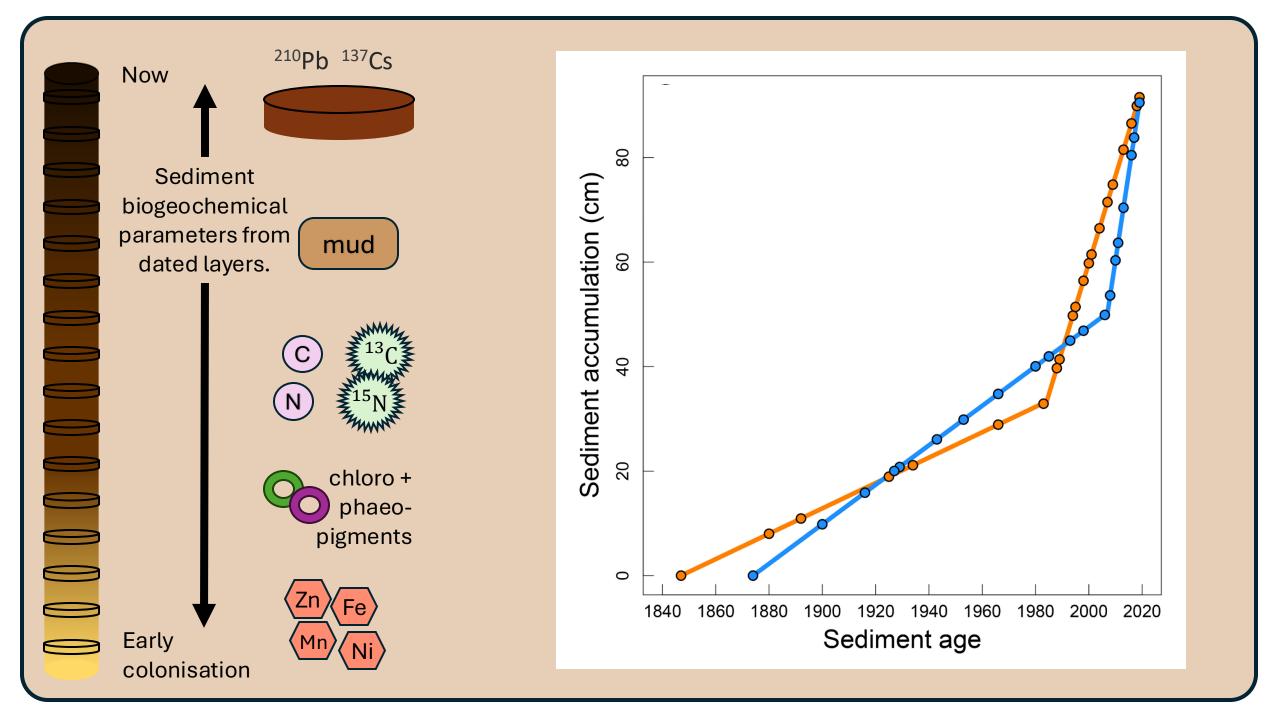


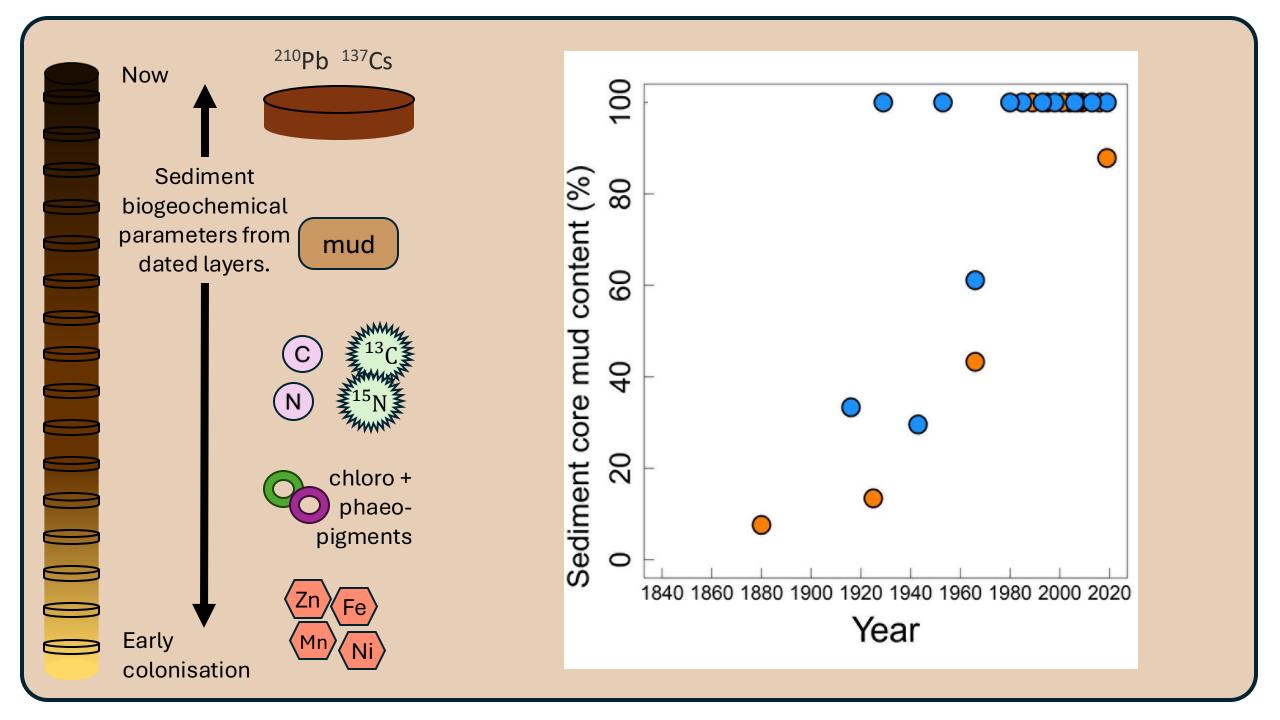


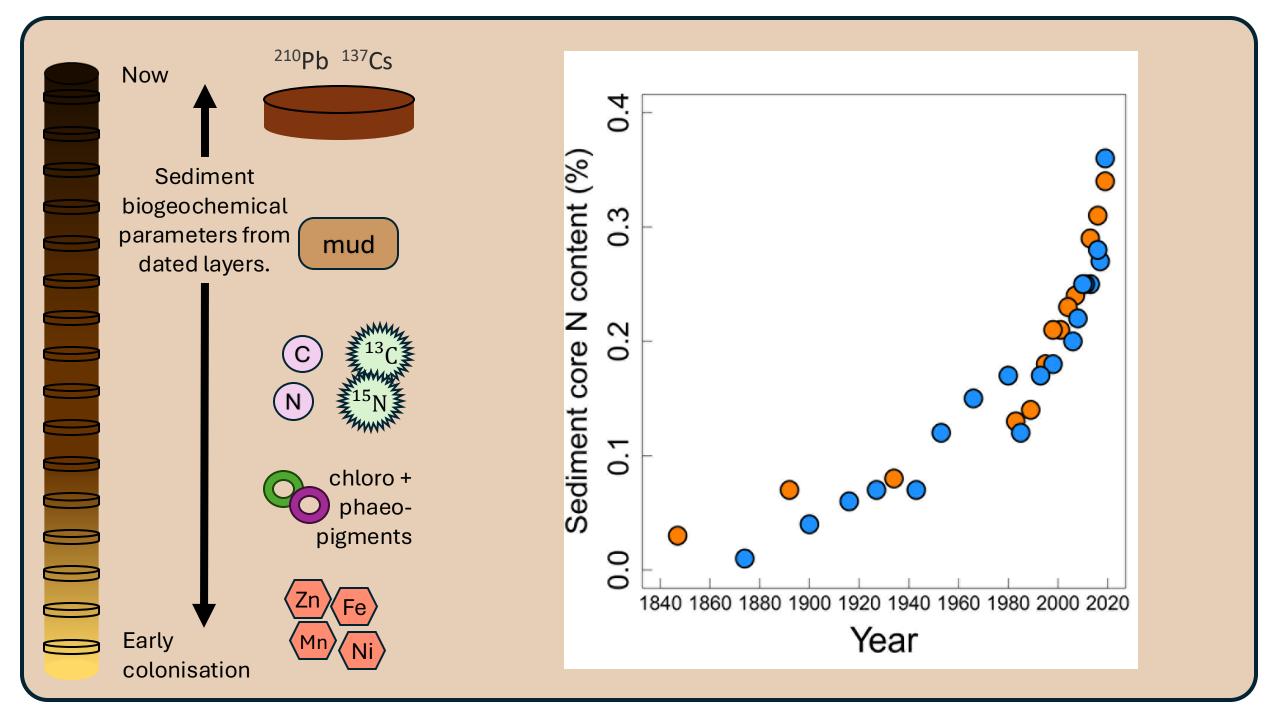
Comparison with known estuarine history:
Memories and Mātauranga.

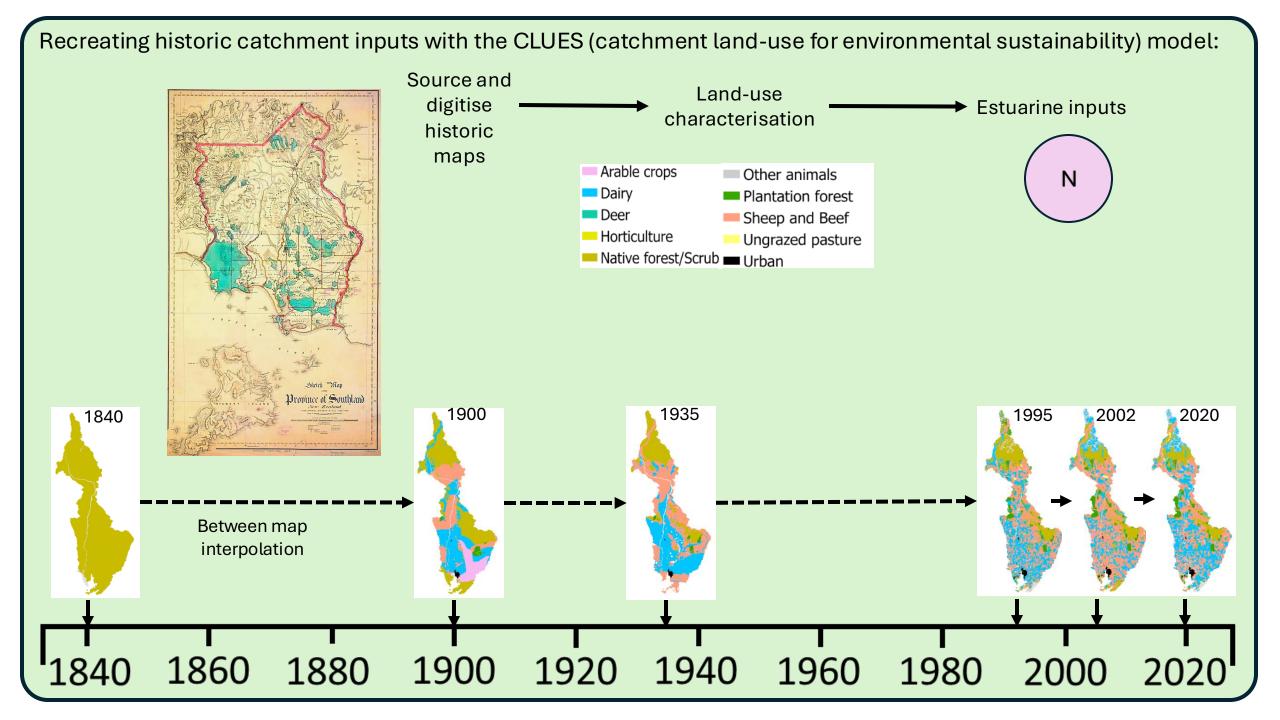


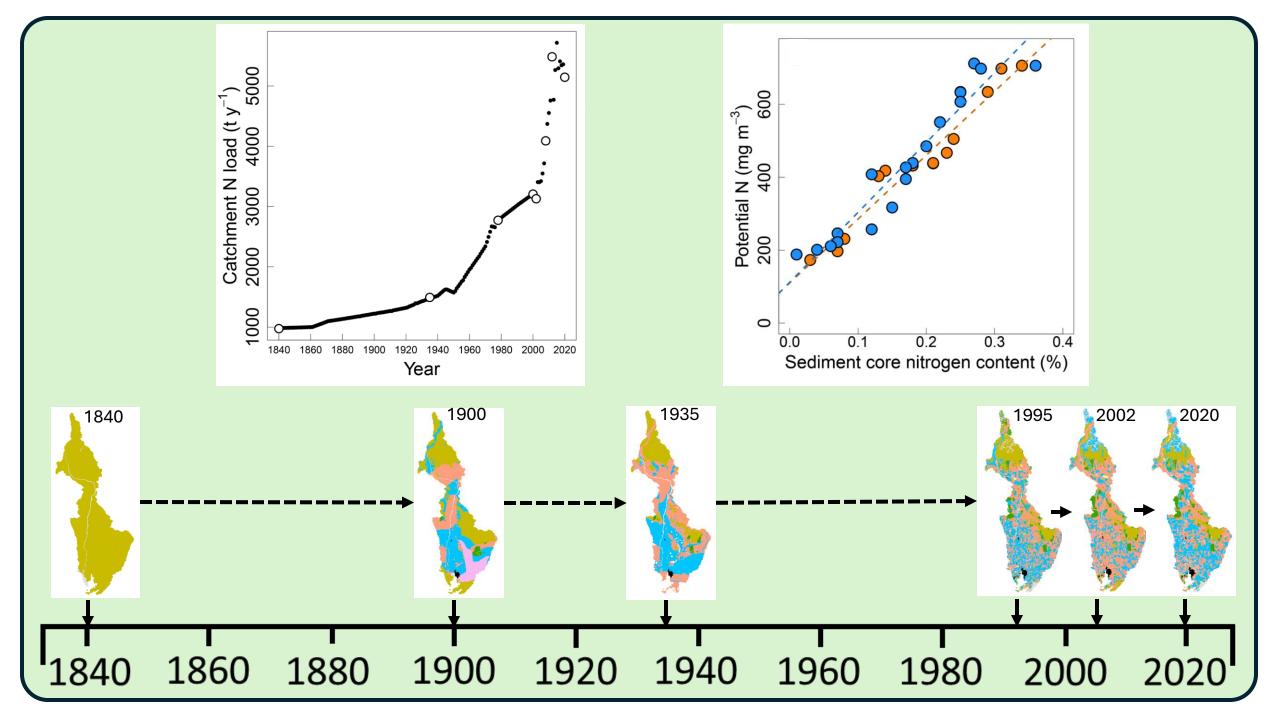






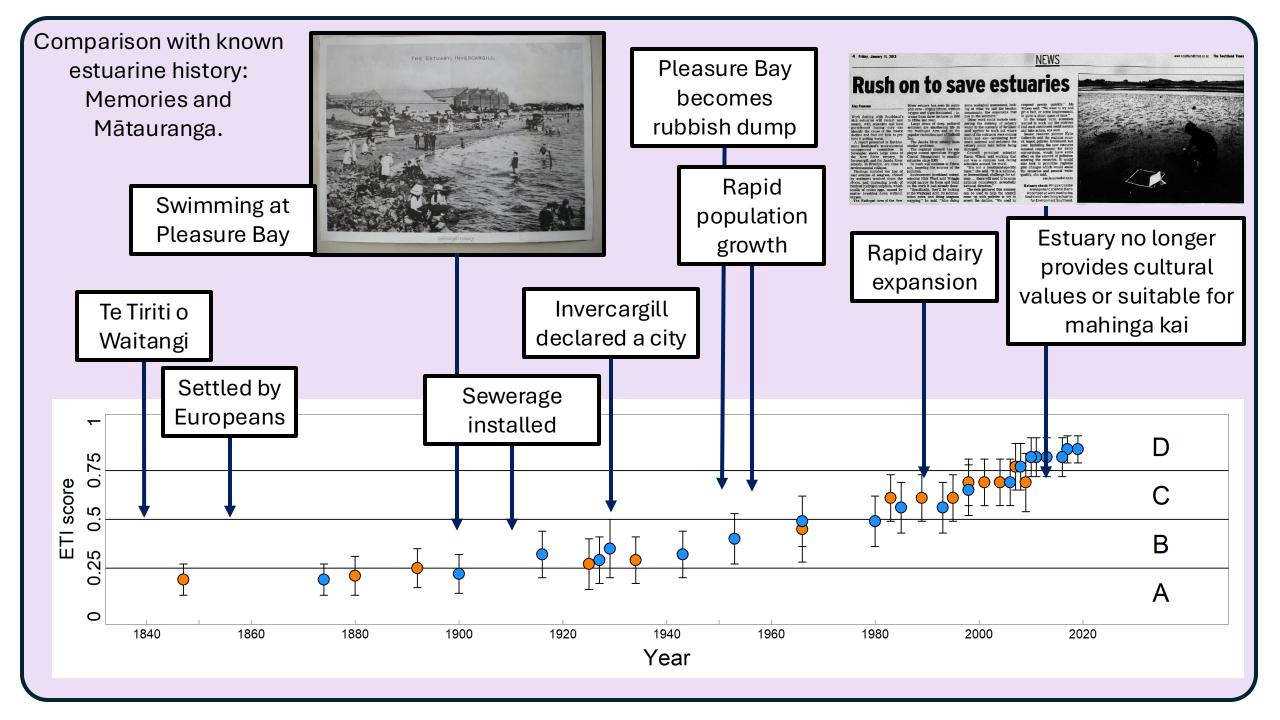


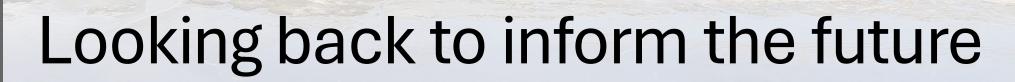




1.0 Reconstructing historic ecologies with a Bayesian Belief Network 8.0 Final ETI score Final ETI band Macroalgal EQR ETI primary score ETI secondary score Estuary type 9.0 Percent intertidal 0.4 Sed. aRPD Flushing Macroalgae Macrobenthos 0.2 Salinity Sed. TOC Seagrass Phytoplankton Potential TN conc. 0 1840 1860 1880 1900 1920 1940 1960 1980 2000 2020 Oxygen conc. Seasonality Year Stratification 0 Mud Closure duration Sed. accum. rate 0.8 Sediment load Sed. trapping effic. Seagrass impact 9.0 Performance score Key: Driver Intermediate calculation Primary indicator Secondary indicator 7 Ö 1840 1860 1880 1900 1920 1940 1960 1980 2000 2020 Zeldis & Plew, Frontiers in Marine Science, DOI: 10.3389/fmars.2022.898992

Year





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