

# Application of the Scenario Planning and Investment Framework (SPIF) and Catchment Analysis Tool (CAT) in the Corangamite Region

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Ensis and DAFF<sup>2</sup> are continuing the Commercial Environmental Forestry (CEF) Program in collaboration with the Corangamite Catchment Management Authority (CCMA), DPI Victoria and Central Victorian Farm Plantations. The project goal is to promote the uptake of targeted forestry for multiple environmental and commercial outcomes, undertaken by modelling landuse change using DPI Victoria's Catchment Analysis Tool (CAT) and extending the information via the Ensis/DAFF-developed Scenario Planning and Investment Framework tool (SPIF) and improved forest growth modeling.

CAT will generate forestry scenarios in the low-medium rainfall regions of the CCMA to produce GIS mapping "layers" for predicted growth, carbon sequestration, water use, , and downstream flow, salinity (EC) and sediment movement. SPIF also generates economics and a 'Plantation Biodiversity Scorecard' for commercial plantations. Ensis will provide forest growth data for use in CAT and an enhanced version of the forest growth model 3-PG to improve the accuracy of the growth and carbon predictions and associated water use.

The SPIF with CAT outputs allow landholders, plantation companies and other forestry investors to run scenarios interactively with local extension staff and Ensis support. The SPIF tool provides instant access to maps and reports used to guide investment decisions including public financial support for new forest proposals that seek to deliver environmental services. The process ultimately promotes public/private partnerships through enhanced modelling and user-friendly extension tools and provides the community with better knowledge for implementing on-ground forestry and revegetation for years to come.

<sup>1</sup> Ensis is the joint venture of CSIRO Forestry and Forest Products and NZ-Based SCION.

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