

## New South Wales

### Charles Sturt University

**DP0987253** Prof TJ Lowrie; Prof RL Zevenbergen

**Approved Project Title** **Mathematics in the digital age: Reframing learning opportunities for disadvantaged Indigenous and rural students**

**2009 :** \$ 90,000

**2010 :** \$ 30,000

**2011 :** \$ 50,000

**Primary RFCD** 3302 CURRICULUM STUDIES

**Administering Organisation** Charles Sturt University

#### Project Summary

This project offers considerable scope for revisioning mathematics curriculum for our most disadvantaged students, as they come to terms with learning in a digital age. Moreover, it will provide opportunities for Indigenous students, and other disadvantaged cohorts, to have improved access to digital technologies that have the potential to enhance their mathematical understandings. The project will inform policy makers about the economic viability of investing in digital resources that have the potential to enhance mathematics outcomes, and thus contribute to the national endeavour of reducing the gap between these disadvantaged cohorts and other children across Australia.

**DP0986566** A/Prof GW Luck; Dr PG Spooner

**Approved Project Title** **Designing landscapes to deliver ecosystem services to agriculture**

**2009 :** \$ 85,000

**2010 :** \$ 85,000

**2011 :** \$ 85,000

**Primary RFCD** 3009 LAND, PARKS AND AGRICULTURE MANAGEMENT

**Administering Organisation** Charles Sturt University

#### Project Summary

This project addresses the Priority Goal of Sustainable Use of Biodiversity by employing a pioneering management framework that identifies situations where agriculture can gain maximum benefit from nature's services. Services like pollination are crucial; approximately 35% of global food production comes from crops pollinated by bees or birds. These services contribute billions of dollars to production. Our model will greatly enhance the flow of services from nature to agriculture by linking land-use options with service availability. This will improve economic returns to local communities and agricultural industries, and promote protection of native species by recognising their contribution to agriculture.