

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

Western Australia

Edith Cowan University

LP100200006 Prof Kamal Alameh, Mr John Rowe

Approved Project Title Development of a pre-production prototype for a laser-based plant sensing weed control system

2010 \$45,000.00

2011 \$90,000.00

2012 \$90,000.00

2013 \$45,000.00

2014

2015

Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

Photonic Detection System Pty Ltd

Administering Organisation Edith Cowan University

Project Summary

Australian farmers spend over \$800 million per annum on herbicides. The proposed technology can reduce herbicide usage by 80 per cent (i.e. over \$640 million per annum saving) and improve crop yields by 30 per cent. Precision application of herbicides, fertilisers and nutrients to weeds and crops has both economic and environmental benefits which will increase farm profits and boost Australia's export sales. Reduced chemical loads on ecosystems will benefit the environment and reduced chemicals in the food chain will benefit the health of Australians. This development will put Australia at the cutting edge of precision spray technology and has numerous spin-off applications in many sectors.