

# Summary of Linkage Projects Proposals for Funding to Commence in 2007

## Western Australia

### Edith Cowan University

**LP0776734** Prof K Alameh; Mr MR Fisher

**Approved Project Title** **Automated photonic multi-spectral weed discrimination sensor for precision agriculture**

**2007 :** \$ 45,000

**2008 :** \$ 82,500

**2009 :** \$ 72,500

**2010 :** \$ 35,000

**Primary RFCD** 2917 COMMUNICATIONS TECHNOLOGIES

#### Collaborating/Partner Organisation(s)

Weed Control Australia Ltd

**Administering Organisation** Edith Cowan University

#### Project Summary

Australian farmers spend over \$800 million yearly on herbicides. The proposed technology can reduce herbicide usage by 80% (i.e. over \$640 million p.a. saving) and improve crop yields by 30%. 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.