

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

Victoria

The University of Melbourne

LP100200240 Dr Lu Aye, Dr Tuan D Ngo, Dr Robert H Crawford, Prof Priyan Mendis

Approved Project Title **Prefabricated reusable building modules: reducing building life cycle environmental impacts**

2010	\$30,852.00
2011	\$63,898.50
2012	\$69,304.50
2013	\$36,258.00
2014	
2015	

Primary FoR 1299 OTHER BUILT ENVIRONMENT AND DESIGN

APAI 1

Partner/Collaborating Organisation(s)

FENDER KATSALIDIS ARCHITECTS

Administering Organisation The University of Melbourne

Project Summary

The outcomes of this project will enhance Australia's ability to provide globally competitive next generation building construction solutions. It will also help to not only ensure that Australian industry is at the forefront of best-practice environmental innovation but also support industry to develop and expand export markets, providing significant economic benefits. The outcomes of this project will be valuable to the construction industry to make implementation of ecologically sustainable design more rigorous. Strategies for improving the environmental performance of construction, particularly through prefabrication of durable building components will be able to be better facilitated by the research undertaken in this project.

LP100200224 Dr Simon R Bailey, Dr Patricia A Harris

Approved Project Title **Relationships between insulin resistance, diet and obesity in ponies and horses**

2010	\$27,034.50
2011	\$47,619.00
2012	\$40,919.00
2013	\$20,334.50
2014	
2015	

Primary FoR 0702 ANIMAL PRODUCTION

APAI 1

Partner/Collaborating Organisation(s)

WALTHAM Centre for Pet Nutrition

Administering Organisation The University of Melbourne

Project Summary

There are an estimated 1.2 million horses in Australia, and the horse industry is estimated to contribute over \$6.3 billion to the economy. Laminitis is a significant health and welfare problem in Australia, as it is worldwide, causing pain and lameness, loss of use, and sometimes necessitating euthanasia. Laminitis is one of the most common reasons for horse owners to seek veterinary attention, and diet and obesity increasingly predispose to this condition. Since treatment of laminitis is difficult, prevention is crucial. The outcomes from this project will include the provision of more specific advice on dietary and exercise management to vets and horse owners to reduce the incidence and impact of laminitis on the horse industry.

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LP100200590	Prof Kim G Dovey, Prof Shane F Murray, Prof Rob Adams, Prof Geoffrey London	
Approved Project Title	Intensifying places: transit-oriented urban design for resilient Australian cities	
2010		\$70,000.00
2011		\$125,000.00
2012		\$134,000.00
2013		\$79,000.00
2014		
2015		
Primary FoR	1205	URBAN AND REGIONAL PLANNING

Partner/Collaborating Organisation(s)

Aspect Studios, City of Darebin, City of Melbourne, David Lock Associates (Australia) Pty Ltd, Department of Planning and Community Development Victoria, McGauran Giannini Soon Pty Ltd, Moreland City Council , Office of the Victorian Government Architect

Administering Organisation The University of Melbourne

Project Summary

The population of Australian cities is rising sharply at precisely the time we also need to achieve dramatic reductions in carbon emissions. While there is debate about the degree to which we can extend urban growth boundaries, there is no doubt that intensification in activity centres and along transit lines will be realised in the near and medium future. This is both a threat to established suburban ways of life and a wonderful opportunity to enhance them. What kinds of new urban places will be created and how can design quality be managed to ensure the beauty, amenity, pedestrian accessibility, sociability and public transport efficiency of our cities?

LP100200432	A/Prof Jane R Fisher, Dr Heather Rowe, Ms Sara N Holton, Ms Vikki Sinnott, Ms Lynne G Jordan, Dr Kathleen M McNamee, A/Prof John C McBain, Dr Christine M Bayly	
Approved Project Title	Understanding fertility management in contemporary Australia	
2010		\$40,000.00
2011		\$80,000.00
2012		\$65,000.00
2013		\$25,000.00
2014		
2015		
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Family Planning Victoria Inc, Melbourne IVF Pty Ltd, Royal Women's Hospital, Victorian Department of Health

Administering Organisation The University of Melbourne

Project Summary

Fertility management, including unintended pregnancy and infertility carry substantial public costs including increased health service use and reduced economic participation. Both are experienced in individual lives, contributing to disappointed life goals, altered social and family relationships, the burden of stigma, and compromised physical and mental health. The goal of this research is to reduce the public and personal costs of sub-optimal fertility management by providing the knowledge for improving national reproductive and sexual health promotion strategies. The consequence will be increased likelihood that pregnancies are intended and reproductive hopes realised. Data will contribute to National Research Priorities of promoting health and strengthening families.

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LP100200545	Prof Anne M Kavanagh, Dr Rebecca Bentley, A/Prof Anthony D LaMontagne, Dr Emma Baker, Prof Andrew P Beer, Dr Shelley Mallett, Ms Anne E Pate	
Approved Project Title	The importance of gender and socio-economic disadvantage for the mental health of people living with disabilities	
2010		\$39,712.50
2011		\$69,712.50
2012		\$62,500.00
2013		\$32,500.00
2014		
2015		
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

Partner/Collaborating Organisation(s)

Melbourne Citymission, VicHealth, Victorian Women With Disabilities Network

Administering Organisation The University of Melbourne

Project Summary

The twenty per cent of Australians reporting a disability are more likely to live in disadvantaged circumstances such as inadequate housing, unemployment, and lower levels of education all of which may contribute to poor mental health. Yet there has not been research on the mental health of people with disabilities. This means that disability services and advocacy groups, which deal daily with the lived experiences of disadvantage and poor mental health in people with disabilities, do not have evidence to support policy and service sector reform. This project will provide this critical evidence as well as build research capacity in disability-related research and lead to better monitoring of disability-related health inequities.

LP100200162	Prof Jack P Keating, A/Prof John Polesel, Dr Elizabeth (Leesa) M Wheelahan, Dr Gavin F Moodie, Mr David C Howes, Ms Margaret A Mackenzie, Mr Guy Valentine, Ms Janice L Chee, Mr Paul Herschell	
Approved Project Title	Senior secondary certification: meeting the national agenda?	
2010		\$63,959.00
2011		\$115,366.50
2012		\$113,045.00
2013		\$61,637.50
2014		
2015		
Primary FoR	1301	EDUCATION SYSTEMS

Partner/Collaborating Organisation(s)

Queensland Studies Authority, Victorian Curriculum and Assessment Authority

Administering Organisation The University of Melbourne

Project Summary

Senior secondary certificates are subject to multiple sets of national demands that create the risk of weakening their important historical roles and undermining stakeholder support. This project will provide a deeper understanding of the nature of the tensions that need to be balanced within the design and management of the certificates and provide information for future design options in the context of national developments in secondary and tertiary education. The project has the potential to assist state and territory agencies that are responsible for senior secondary curriculum and certification in making their contributions toward the national goals and targets for education participation set by the Australian Government.

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LP100200662	A/Prof Ecosse L Lamoureux, Dr Mohamed Dirani, Dr Gwyn Rees, Prof Tien Y Wong	
Approved Project Title	Personalising the management of diabetes care in non-English speaking Australian adults with diabetic retinopathy	
2010		\$50,000.00
2011		\$112,500.00
2012		\$115,000.00
2013		\$71,050.00
2014		\$18,550.00
2015		
Primary FoR	1113	OPTOMETRY AND OPHTHALMOLOGY

APAI 1

Partner/Collaborating Organisation(s)

Diabetes Australia Victoria, Royal Victorian Eye and Ear Hospital

Administering Organisation The University of Melbourne

Project Summary

Reducing the public health burden of diabetes and diabetic retinopathy for non-English speaking Australians is a major challenge for health care providers, researchers, and health policy makers. In addition to improving self care, eye health, and quality of life, this intervention has considerable potential to deliver substantial savings to the Australian community. It will also provide a novel and valid diabetes management program and contribute to future health policies related to personnel, resources and funding allocated to diabetes, eye care, and rehabilitation. This project will raise the skill of existing diabetes educators and serve to generate closer coordination of care between tertiary eye care services and primary care settings.

LP100200277	Dr Lachlan MacDowall, Dr Martin J Mulligan, Mr Frank Panucci	
Approved Project Title	Towards an integrated evaluation framework for intrinsic and instrumental benefits of community-based arts	
2010		\$33,423.50
2011		\$66,847.00
2012		\$68,423.50
2013		\$35,000.00
2014		
2015		
Primary FoR	1901	ART THEORY AND CRITICISM

Partner/Collaborating Organisation(s)

Australia Council for the Arts

Administering Organisation The University of Melbourne

Project Summary

Australia is recognised as a world leader in community-based arts, in which artists and communities collaborate to identify and effect key local issues. Increasingly, these community-based arts projects involve funding from non-arts agencies; for example from the health, justice or urban development sectors. However, existing methods of describing and evaluating their success are generally ineffective. This research will develop more holistic modes of evaluation, offering benefits to the participants, artists and funders of community-based arts and provide support towards further cross-sector collaborations across all public policy areas, further strengthening Australia's reputation as a leader in fostering active and culturally rich communities.

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LP100200430 Prof Marimuthu Palaniswami, A/Prof Ba-Ngu Vo, Dr Jayavardhana Rama Gubbi Lakshminarasimha
Approved Project Title **Design of adaptive learning visual sensor networks for crowd modelling in high-density and occluded scenarios**

2010	\$42,500.00
2011	\$85,000.00
2012	\$85,000.00
2013	\$42,500.00
2014	
2015	

Primary FoR 0801 ARTIFICIAL INTELLIGENCE AND IMAGE PROCESSING

APDI Dr Jayavardhana Rama Gubbi Lakshminarasimha

Partner/Collaborating Organisation(s)

Arup Pty Ltd , Melbourne Cricket Club, SenSen networks Pty Ltd

Administering Organisation The University of Melbourne

Project Summary

Partnering University of Melbourne researchers, with video surveillance experts SenSen, engineering consultants ARUP and the Melbourne Cricket Club, the project addresses research enabling a system-integrating, existing surveillance, infrastructure to model crowd behaviour and exit strategies, providing real-time analysis, prediction and response capabilities for venue managers and emergency services. This new capability enhances utilisation of security resources to prevent injury and fatalities in evacuation scenarios, applicable to existing venues and influencing the development of new facilities around the country. The project delivers researcher training, global clientele for local technology and a platform for local industry growth.

LP100200057 Dr Yin C Paradies, A/Prof Margaret Kelaher, Prof Alan Shiell, Prof Eric T Vos, A/Prof Anthony D LaMontagne, Dr Marion Frere

Approved Project Title **Addressing race-based discrimination in Australia: a cost-benefit analysis**

2010	\$25,000.00
2011	\$50,000.00
2012	\$50,000.00
2013	\$25,000.00
2014	
2015	

Primary FoR 1117 PUBLIC HEALTH AND HEALTH SERVICES

APAI 1

Partner/Collaborating Organisation(s)

Australian Human Rights Commission, VicHealth

Administering Organisation The University of Melbourne

Project Summary

This project is designed to produce sustainable benefits to Australian society through the provision of important data needed to promote investment in strategies to address race-based discrimination. This will benefit both the lives of individuals experiencing race-based discrimination, including those from Indigenous and culturally and linguistically diverse backgrounds. It will also benefit society as a whole through promotion of social cohesion and community connectedness and the economic benefits resulting from increased productivity and workforce participation and reduced burden on health, social and welfare systems.

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

LP100200158 Dr Kirsten M Parris, Dr Jane E Melville, Dr Jeremy J Austin, Dr Murray J Littlejohn
Approved Project Title **The impact of severe bushfires on the ecology, demography and genetics of frogs in the Victorian Kinglake region**

2010	\$30,000.00
2011	\$65,000.00
2012	\$75,000.00
2013	\$40,000.00
2014	
2015	
Primary FoR	0602 ECOLOGY

Partner/Collaborating Organisation(s)

Goulburn Broken Catchment Management , Melbourne Water, Museum Victoria

Administering Organisation The University of Melbourne

Project Summary

The February 2009 bushfires in Victoria devastated many communities, and also had a profound impact on wildlife species. This research is aimed at measuring the impact of these fires on frogs in the Kinglake region. It will provide a range of national benefits, including a better understanding of the effects of wildfire on native species and their habitats, information to help plan conservation efforts for frogs, and a vital connection with local landowners; some of whom lost their homes in the fires but were still concerned about the wellbeing of frogs in the area. Australia is a fire-prone country, and this project will help develop responses to the threats posed by the expected increase in the frequency and intensity of fires in southern Australia.

LP100200261 A/Prof Bradley N Potter, A/Prof Monica Keneley, Prof Colin B Ferguson, Mr Phillip E Cobbin, Prof Brian West, Dr Mark D Wilson

Approved Project Title **An approach to preserving accounting and business archival materials: enhancing accessibility to inform research and practice**

2010	\$35,000.00
2011	\$65,000.00
2012	\$70,000.00
2013	\$40,000.00
2014	
2015	
Primary FoR	1503 BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

CPA Australia, National Archives of Australia

Administering Organisation The University of Melbourne

Project Summary

CPA Australia is one of the oldest professional accounting associations in the world. Its archival records provide invaluable insights into the development of the profession and the business community it services. The preservation and management of this heritage will be of benefit not just to the profession but also in enhancing our understanding of the evolution of the corporate foundation of the economy. This project will involve the development of a framework for managing the archive and facilitating access through the use of digital technologies. The outcomes will contribute to preserving and understanding the nation's business history as well as facilitating integration with international accounting and business archives.

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LP100200389 A/Prof Damien J Power, Dr Prakash J Singh, Dr Vikram Bhakoo, Prof Danny Samson
Approved Project Title **Factors influencing the adoption and diffusion of supply chain technology standards in Australia**

2010	\$55,000.00
2011	\$110,000.00
2012	\$55,000.00
2013	
2014	
2015	

Primary FoR 1503 BUSINESS AND MANAGEMENT

Partner/Collaborating Organisation(s)

GS1 Australia

Administering Organisation The University of Melbourne

Project Summary

This project seeks to enable more organisations to use technologies such as bar codes and radio-frequency identification (RFID) tags. Studies show that 3.5 per cent of sales are lost due to information inefficiencies, 30 per cent of inventory records have errors, and 60 per cent of all invoices have errors. These types of errors and losses can be reduced through use of these technologies because they enable more efficient and effective flow of goods and services. All four industry sectors we will study can benefit from these technologies: reduced errors and better service delivery in the healthcare sector; improved quality control and reduced transportation costs for primary producers; improved coordination and reduced transport related carbon emissions for automotive manufacturing and fast moving consumer goods sectors.

LP100200728 A/Prof Jean-Pierre Y Scheerlinck, A/Prof Philip Sutton
Approved Project Title **Understanding immune mechanisms induced by pulmonary vaccination**

2010	\$55,253.50
2011	\$110,507.00
2012	\$110,507.00
2013	\$55,253.50
2014	
2015	

Primary FoR 1107 IMMUNOLOGY

Partner/Collaborating Organisation(s)

CSL Ltd

Administering Organisation The University of Melbourne

Project Summary

This project aims to better understand the mechanisms of immune induction of a novel lung vaccination strategy. The ability to deliver vaccines that induce potent lung and body wide immune responses in a safe and efficient manner has wide implications for both human and animal health. Ultimately, the vaccine will be delivered to the lung as stable dry powders in an attempt to negate the need for a transport cold chain and therefore facilitate the distribution of the vaccines to remote areas. The project will not only benefit the Australian biotechnology industry but also the community at large and in particular those in remote areas without access to modern medical facilities.

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LP100200170	Dr Michael J Stewardson, Prof Nathan L Poff, Dr Ian D Rutherford, Dr Andrew K Sharpe	
Approved Project Title	How effective are environmental flows? Novel approaches for monitoring and assessing ecological responses to large-scale flow alteration	
2010		\$75,000.00
2011		\$145,000.00
2012		\$140,000.00
2013		\$70,000.00
2014		
2015		
Primary FoR	0602	ECOLOGY

Partner/Collaborating Organisation(s)

Department of Sustainability and Environment, Victoria., Environmental Evidence Australia Pty Ltd, Glenelg Hopkins CMA, Goulburn Broken Catchment Management , Melbourne Water Corporation, Murray-Darling Basin Authority, North Central Catchment Management Authority, Sinclair Knight Merz, West Gippsland Catchment Management Authority, Wimmera Catchment Management Authority

Administering Organisation The University of Melbourne

Project Summary

Australia has begun a multi-billion dollar program to return water to stressed rivers as environmental flows. However, during times of unprecedented water scarcity, such an investment in the environment can be controversial because the ecological benefits of released water are mostly poorly understood. This project will demonstrate the effectiveness of environmental flows, and promote greater understanding of the links between flow patterns and river health. The project will build upon existing knowledge to create a sound framework for planning, monitoring, and evaluation of environmental watering decisions across regional Australia, greatly improving our ability to sustainably manage rivers into the future.

LP100200112	Prof Doreen A Thomas, Dr Marcus N Brazil, Prof Joachim H Rubinstein	
Approved Project Title	Maximisation of value in underground mine access design	
2010		\$32,500.00
2011		\$65,000.00
2012		\$65,000.00
2013		\$32,500.00
2014		
2015		
Primary FoR	0103	NUMERICAL AND COMPUTATIONAL MATHEMATICS

Partner/Collaborating Organisation(s)

Rand Mining N L, Tribune Resources N L

Administering Organisation The University of Melbourne

Project Summary

This project represents a major advance in the problem of optimising the mine value associated with the access infrastructure of underground mines and providing powerful planning tools for management. The usefulness to the mining industry of the methods and algorithms the project is pioneering lies in their accuracy, flexibility and generality. Not only can they be used for benchmarking value in the design of specific mines, but they can also determine the profitability or viability of mines under the use of new technologies. This is an important project for ensuring that Australia's mining industry remains efficient and internationally competitive. Given Australia's economic dependence on mineral resources, it will also benefit the country as a whole.

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LP100200164	Prof Elizabeth B Waters, Prof Richard A Bryant, Prof Philippa E Pattison, Dr Lisa F Gibbs, Prof Mark C Creamer, A/Prof Louise K Harms, Dr Dean S Lusher, A/Prof Colin MacDougall	
Approved Project Title	Bushfires, social connectedness and mental health	
2010		\$151,116.00
2011		\$220,090.00
2012		\$232,228.50
2013		\$301,368.00
2014		\$259,179.00
2015		\$121,065.50
Primary FoR	1117	PUBLIC HEALTH AND HEALTH SERVICES

APAI 1
 APDI Dr Dean S Lusher

Partner/Collaborating Organisation(s)

Australian Red Cross, Australian Rotary Health , Banyule Community Health Service, Bendigo Loddon Primary Care Partnership, Central Hume Primary Care Partnership, Central West Gippsland Primary Care Partnership, Centrelink, Lower Hume Primary Care Partnership , Outer East Health and Community Support Alliance , Victorian Department of Health

Administering Organisation The University of Melbourne

Project Summary

The 2009 Victorian bushfires caused much loss of life, property destruction, and community disturbance. It is important for Promoting Better Health and Strengthening the Social and Economic Fabric that an accurate understanding is achieved of the factors that contribute to optimal recovery from natural disasters. This project will survey people affected by the fires over 5 years to both profile adaptation after the fires and to identify the individual and community processes that influence outcome. This project being undertaken in partnership by academic, disaster management, health and community organisations will provide crucial information for shaping policy for disaster management in the years ahead.

LP100200199	A/Prof Stephan Winter, Dr Matt R Duckham, A/Prof Timothy J Baldwin, Dr Allison N Kealy, Dr Lawrence Cavedon, A/Prof Lesley F Stirling, A/Prof Abbas Rajabifard	
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Approved Project Title **Talking about place: tapping human knowledge to enrich national spatial data sets**

2010		\$50,000.00
2011		\$100,000.00
2012		\$100,000.00
2013		\$50,000.00
2014		
2015		
Primary FoR	0909	GEOMATIC ENGINEERING

Partner/Collaborating Organisation(s)

Emergency Services Telecommunications Authority, Land and Property Management Authority NSW, PSMA Australia Ltd, Surveyor-General of Victoria

Administering Organisation The University of Melbourne

Project Summary

Place descriptions are a common way for people to describe a location, but no current tools are smart enough to understand them. Emergency call centres are risking lives, users of navigation or web services are frustrated and addressing these problems costs billions of dollars per year. This project comes with a novel, interdisciplinary approach to automatically interpret human place descriptions and will develop novel methods to capture placenames with their meaning for smarter databases and automatic interpretation procedures. This acquired knowledge will be an important step forward for Australia's data custodians and users. Australia's location information industry will gain a significant advantage on a highly competitive global market.