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## 2004 SELECTION ROUND SUCCESSFUL CRCS

### **Australasian CRC for Interaction Design, Information and Communication Technology Sector (Supplementary) - QLD**

**CRC Programme funding: \$1.65 million**

The new research programme will facilitate empirical studies of interactive television audience behaviour designed to better understand the human factors associated with their engagement with a wide variety of content. Audience research is the core activity of the programme which will then be translated into other initiatives including content production, application development and hardware solutions.

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### **Australasian Invasive Animal CRC, Environment Sector (Developing from an existing CRC) - ACT**

**CRC Programme funding: \$29.64 million**

The Australasian Invasive Animal CRC will focus on solving invasive animal pest problems through the development of commercial outputs and a business partnership that brings together national and international skills in science, management, commerce and industry. Outcomes will help solve the prominent and costly impacts of invasive species on agriculture and the environment.

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### **CAST CRC, Manufacturing Technology Sector (Developing from an existing CRC) - QLD**

**CRC Programme funding: \$33.5 million**

The CAST CRC's research will provide competitive advantage to Australia's light metal industry. The focus will be on technologies for aluminium, magnesium and titanium producers and manufacturers of light weight transport applications. The CAST CRC has adopted a value chain approach providing innovations for base metal and specialist alloy producers, component and systems manufacturers, transport manufacturers, defence contractors and a broad range of SMEs. Research activities will focus on new applications, new processes, industry sustainability and strategic research. The CRC will integrate these new technologies throughout the full value chain to maximise commercial uptake, industry diffusion and return on investment.

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## **Cotton Catchment Communities CRC, Agriculture and Rural Based Manufacturing Sector (Developing from an existing CRC) - NSW**

**CRC Programme funding: \$26.5 million**

The Cotton Catchment Communities CRC will create economic prosperity integrated with the sustainable use of natural resources by providing innovative knowledge that is adopted for the benefit of the Australian cotton industry, regional communities and Australia as a whole. Greater emphasis will be placed on water, natural resources, managing transgenic crops and commercial tools for growers. Value adding will also be a major theme, with a focus on the fibre and new opportunities associated with cotton seed oil and aquaculture.

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## **CRC for Advanced Automotive Technology, Manufacturing Technology Sector (New) - Victoria**

**CRC Programme funding: \$38.35 million**

The CRC for Advanced Automotive Technology will provide the automotive industry with the opportunity to work with research providers in design, engineering and manufacturing research to enhance the industry's international competitiveness. The CRC will help the automotive industry to reduce concept-to-product cycle times through the introduction of paradigm shifts in process and production methodologies, improved manufacturing flexibility and efficiency and the development of new material systems to meet the challenges of weight reduction, increased safety and greater functionality. The CRC will also improve vehicle safety through delivering improvements in the crash worthiness of vehicles and new intelligent products/systems that provide increased comfort, performance and entertainment.

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## **CRC for an Internationally Competitive Pork Industry, Agriculture and Rural Based Manufacturing Sector (New) - SA**

**CRC Programme funding: \$25.75 million**

Research and development conducted by the CRC for an Internationally Competitive Pork Industry will result in reduced production costs for high-quality pork through more reliable and consistent protein and energy supplies via innovative grain production and through improved herd feed conversion efficiency. The demand for niche Australian pork products will be increased as a result of an enhanced capacity to deliver nutrients that promote the health and well-being of consumers via consumption of pork and pork products. This will lead to improved confidence and investment resulting in the growth of the Australian pork industry.

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## **CRC for Asthma and Airways, Medical Science and Technology Sector (Developing from an existing CRC) - NSW**

**CRC Programme funding: \$26.44 million**

Asthma is one of the most prevalent chronic diseases and Australia has one of the highest incidences of asthma in the world. Despite this high prevalence, asthma remains a poorly understood disease, and there is a recognised need for more definitive diagnosis and more effective and safer asthma treatments. The CRC for Asthma and Airways will identify key pathways in asthma mechanisms involving unique sets of genes, inflammatory molecules and proteins that will underpin a rational commercial approach to the better use of existing treatments and the development of novel, improved therapeutic strategies for asthma. In addition, the CRC will improve our understanding of the environmental factors that influence the high and increasing rates of asthma with the goal of developing air quality guidelines and policies that will be implemented through state government partners.

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## **CRC for Beef Genetic Technologies, Agriculture and Rural Based Manufacturing Sector (Developing from an existing CRC) - NSW**

**CRC Programme funding: \$30 million**

The CRC for Beef Genetic Technologies will improve the capacity of the beef industry to deliver high quality beef to Australia's global markets using cattle of known genetic merit without compromising animal welfare or the environment. Beef yield will be enhanced and herd reproductive efficiency will be increased. Improvements in the efficiency of resource use will reduce production costs, minimise methane emissions and avoid chemical and antibiotic residues through precise application of knowledge about the genes controlling these attributes in cattle, their rumen micro-organisms and in parasites that affect cattle productivity.

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## **CRC for Biomedical Imaging Development, Medical Science and Technology Sector (New) - Victoria**

**CRC Programme funding: \$21.47 million**

Biomedical imaging is one of the key enabling tools that will make personalised medicine possible. A fundamental limit to the ability of clinicians to provide individualised medicine services is the specificity, sensitivity and resolution of the current imaging techniques and equipment. The CRC for Biomedical Imaging Development will produce new and improved radiopharmaceutical tracers with high specificity for cancer and neurological diseases, together with chemical processes for their on-site production and new detectors capable of significantly improved sensitivity and resolution.

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## **CRC for Contamination Assessment and Remediation of the Environment, Environment Sector (New) - SA**

**CRC Programme funding: \$30 million**

The goal of the CRC for Contamination Assessment and Remediation of the Environment is to develop a risk based approach to remediation leading to improved regulatory acceptance of commercially viable and cost-effective solutions to environmental contamination. A significant feature of the CRC's strategic research is the National Contaminated Sites Demonstration Programme (NCSDP). The NCSDP has been designed to solve difficult and challenging air, land and water contamination problems, involving site owners, regulators, consultants and research providers. The data generated during these studies will be used for further development of the Australian National Environmental Protection Measure. The CRC will develop monitoring tools for contaminant groups including heavy metals, petroleum hydrocarbons, industrial solvents, persistent organics such as pesticides, explosives, and others such as asbestos.

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## **CRC for Molecular Plant Breeding, Agriculture and Rural Based Manufacturing Sector (Supplementary) - Victoria**

**CRC Programme funding: \$4.93 million**

By delivering quantum improvements in pasture, through providing the industry-desired target traits of both enhanced herbage quality and reduced pollen allergenicity, the Molecular Plant Breeding CRC will produce the world's first highly nutritious, highly digestible, hayfever-free pasture grasses. By extending the reach to additional key target species and by combining traits, thereby enhancing the global competitiveness of Australia's pastoral industries, the CRC will develop and penetrate world markets with Australian-owned technologies.

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## **CRC for National Plant Biosecurity, Agriculture and Rural Based Manufacturing Sector (New) - ACT**

**CRC Programme funding: \$20.5 million**

A number of pests and diseases pose a severe threat to Australian agriculture across a range of grain, horticultural and other plant industries. The CRC for National Plant Biosecurity aims to counteract the impact of emerging plant pests and diseases through the application of new technology and by integrating approaches across agencies and jurisdictions. The CRC's research and education programmes encompass all major aspects of biosecurity – prevention, diagnosis, surveillance and impact management. Deliverables from the CRC include risk analysis tools, diagnostics platforms, surveillance systems and rapid response systems. SMEs will assist in taking CRC products to market.

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## **CRC for Polymers, Manufacturing Technology Sector (Developing from an existing CRC) - Victoria**

**CRC Programme funding: \$32 million**

Polymers are rapidly replacing many traditional manufacturing materials such as steel. The comparative advantages of polymers over other materials include their low densities, range of mechanical properties, and ease of processing. They underpin a substantial proportion of Australian manufacturing, and are used to create products for a wide range of industries and a diverse range of applications. The CRC for Polymers will conduct leading-edge research to deliver the technically advanced polymeric materials and polymer engineering required to transform Australian industries such as manufacturing, biotechnology, agriculture, and mining and energy.

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## **CRC for Sustainable Forest Landscapes, Agriculture and Rural Based Manufacturing Sector (Developing from an existing CRC) - TAS**

**CRC Programme funding: \$26.6 million**

The CRC for Sustainable Forest Landscapes will generate new technologies to apply to the management challenges faced across the entire forestry business chain - from site selection to delivery of wood at the mill gate. There will be a strong focus on the study of interactions between wood production systems and the wider environment, supporting the industry need for proof of sustainability. The CRC will focus on the production of fibre and solid wood from hardwood plantations ensuring a reliable supply of high-value wood. This will lead to greater market competitiveness for Australian wood products through an improved ability to grow a higher quality, more uniform resource from plantations of certified sustainability.

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## **e-Water CRC, Environment Sector (Developing from an existing CRC) - ACT**

**CRC Programme funding: \$40.25 million**

The eWater CRC builds on the successes of two existing CRCs – Catchment Hydrology and Freshwater Ecology. This CRC will develop products that will allow both governments and private companies to deliver water of a higher quality, more efficiently and at vastly reduced costs. The CRC will take an integrated approach to water cycle management across urban and rural catchments, with a strong market orientation and commercial focus. The CRC will strive to be an international leader in the development, application and commercialisation of products for integrated water cycle management.

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## **Parker CRC for Integrated Hydrometallurgy Solutions, Mining and Energy Sector (Developing from an existing CRC) - WA**

**CRC Programme funding: \$20 million**

Hydrometallurgy plays an essential role in the production of alumina, gold, zinc, nickel and copper. The Parker CRC for Integrated Hydrometallurgy Solutions will maximise the returns from Australia's mineral endowment by improving hydrometallurgical knowledge. The CRC will develop breakthrough technologies that have the potential to change the competitive basis of the whole industry, and make incremental improvements in current production technologies, effectively transferring research outputs to industry and developing the nation's expertise in hydrometallurgy.

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