

Minister's Approval for Industrial Transformation Training Centres for Funding Commencing in 2021 Schedule

| Approved Organisation, Leader of Approved Research Program (Columns 1 and 2) | Approved Research Program (Column 3) | Estimated and Approved Expenditure (\$) | | | | Indicative Funding (\$) | | Total (\$) | Industrial Transformation Priorities | International Collaboration | Partner Organisation(s) |
|---|---|---|-----------------------|-----------------------|-----------------------|-------------------------|------------------------|-------------|--------------------------------------|-----------------------------|-------------------------|
| | | 2020-21 (Column 4) | 2021-22 (Column 5) | 2022-23 (Column 6) | 2023-24 (Column 7) | 2024-25* (Column 8) | 2025-26* (Column 9) | (Column 10) | (Column 11) | (Column 12) | (Column 13) |

Australian Capital Territory

The Australian National University

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|--|---|------------|--------------|--------------|--------------|--------------|------------|--------------|-----------------------|------------------|--|
| IC210100047 Pogson, Prof Barry J | ARC Training Centre for Accelerated Future Crop Development The Centre will create a new generation of leaders in the implementation of advanced gene and field technologies for the benefit of the Australian agriculture industry. We will build the workforce and foundations that will drive translation of breakthroughs in advanced breeding, phenotyping and genetic technologies into higher-yielding crops. This will increase productivity across the sector and create new markets. Our technical training programs for graduates, trainees and industry will interface with best evidence-based practices in the wider socio-economic, regulatory and environmental contexts. Coupled with community and stakeholder engagement, the Centre will redefine and secure Australia's future in agriculture. | 500,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 500,000.00 | 5,000,000.00 | Food and Agribusiness | England, Germany | DEPARTMENT OF PRIMARY INDUSTRIES -NSW, CSIRO, SOUTH AUSTRALIAN RESEARCH AND DEVELOPMENT INSTITUTE, ADVANTA SEEDS PTY LTD, AUSTRALIAN GRAIN TECHNOLOGIES PTY LTD, INTERGRAIN PTY LTD, LONGREACH PLANT BREEDERS MANAGEMENT PTY LTD, NUSEED PROPRIETARY LIMITED, AUSTRALIAN CROP BREEDERS LTD, AUSTRALIAN SEED FEDERATION LIMITED, GRAIN TRADE AUSTRALIA LTD, GRAINS RESEARCH & DEVELOPMENT CORPORATION, BIOPLATFOMS AUSTRALIA LTD, DIVERSITY ARRAYS TECHNOLOGY PTY LIMITED, CLUSTER OF EXCELLENCE ON PLANT SCIENCES, JOHN INNES CENTRE, NIAB |
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National Interest Test Statement

Australia's \$34B crop industry accounted for one-third of GDP gains in 2017 but production is halved in harsh seasons; the frequency of which are increasing. Sectoral leadership is essential to meet commercial and food security challenges. Emerging genetic and analytical technologies provide previously unattainable opportunities to optimise the crops of the future to withstand the increasing seasonal and environmental variations. Critically, there are nationwide bottlenecks in the deployment and societal adoption of innovations in crop improvement. We will develop and apply emerging innovative technologies in order to meet future industry and market challenges, and create an ongoing 'open-access and socially aware' technological facility for crop genome engineering. Research-led training and engagement in ethical, social, regulatory and market issues, that align emerging technologies with society's needs, will help create a crop sector that expeditiously converts innovation into social, economic and productivity benefits for industry, rural communities and society.

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|---|------------|--------------|--------------|--------------|--------------|------------|--------------|
| The Australian National University | 500,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 500,000.00 | 5,000,000.00 |
| Australian Capital Territory | 500,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 500,000.00 | 5,000,000.00 |

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New South Wales

Macquarie University

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|---|--|------------|------------|------------|------------|------------|------------|--------------|--|---|---|
| IC210100040 Rodger, Prof Alison | ARC Training Centre for Facilitated Advancement of Australia's Bioactives (FAAB) The Centre for Facilitated Advancement of Australia's Bioactives (FAAB) will transform the rapidly growing bioactive ingredients sector. It will apply advanced analytical methods to molecular characterisation of bioactive products derived from foods, food-waste, and cell-based biotechnologies. FAAB will determine modes of action for bioactives with potential lifestyle and nutritional benefits allowing for evidence-informed decision-making, and regulatory framework development. FAAB graduates will lead and deliver future national self-reliance to the Australian bioactives sector, increasing diversification and international competitiveness and development of regulation in a growing market. | 499,771.00 | 999,731.50 | 999,672.50 | 999,559.00 | 999,508.00 | 499,661.00 | 4,997,903.00 | Medical Technologies and Pharmaceuticals | England, New Zealand, United States of America, Germany | BIOPLATFOMS AUSTRALIA LTD, BOTANICAL INNOVATIONS, CHANGE FOODS PTY LTD, DEPARTMENT OF PRIMARY INDUSTRIES, FACTORS GROUP AUSTRALIA PTY LTD, GRATUK TECHNOLOGIES PTY LTD, MEDIKANE HOLDINGS LTD, NATURAL HEALTH SCIENCE FOUNDATION INC., NOURISH INGREDIENTS PTY LTD, NSW RESEARCH FACILITY PTY LTD, SANITARIUM HEALTH FOOD COMPANY, SKRETTING AUSTRALIA, SOHO FLORDIS INTERNATIONAL AUSTRALIA PTY LTD, VENUS SHELL SYSTEMS PTY LTD |
|---|--|------------|------------|------------|------------|------------|------------|--------------|--|---|---|

National Interest Test Statement

The Australian market for complex bioactive products derived from foods, food-waste and cell-based biotechnologies is growing, with 70% of Australians consuming such products. The ARC Training Centre for Facilitated Advancement of Australia's Bioactives (FAAB) will support Australian BioTech industry to create products of high molecular complexity to relieve chronic and acute health problems enabling informed consumer choice by providing scientifically validated bases for health-benefit claims. If we can regulate manufacture of such products by characterising the molecular identity of bioactives, and providing scientific evidence for their positive impact on health, Australia will gain an increased share of the world growth in bioactives – predicted to be more than 8% pa. This will facilitate a transformational change to Australian industry's international competitiveness, complexity, and sustainability and simultaneously provide jobs for a highly skilled work force, including the scientists trained by FAAB to translate molecular analytical science into the required knowhow for economic prosperity.

Macquarie University 499,771.00 999,731.50 999,672.50 999,559.00 999,508.00 499,661.00 4,997,903.00

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University of Wollongong

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|------------------------|---|------------|--------------|--------------|--------------|--------------|------------|--------------|-------------------------------|--|--|
| IC210100021 | ARC Training Centre in Energy Technologies for Future Grids | 500,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 500,000.00 | 5,000,000.00 | Oil, Gas and Energy Resources | | COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, THE AUSTRALIAN POWER INSTITUTE LIMITED, HYDRO TASMANIA, TASNETWORKS, POWERLINK QUEENSLAND, ZECO AUSTRALIAN ENERGY SOLUTIONS PTY LTD, OZTRON ENERGY PTY. LTD., GHD PTY LTD, UPCVAC RENEWABLES AUSTRALIA, TPS ENERGY AUSTRALIA PTY LTD, SHOALHAVEN CITY COUNCIL, INGETEAM AUSTRALIA PTY LTD, ABEL ENERGY PTY LTD, 123V PTY LTD, VILLAGE ENERGY GROUP PTY LTD |
| Muttaqi, Prof Kashem M | The proposed Future Grids Training Centre will advance Australia's transition to a clean energy future. It will address the complex and challenging issues currently limiting the growth of renewable energy through innovations that facilitate widespread integration of these resources into electricity grids while maintaining grid stability. The Centre will deliver the next generation of industry leaders and specialists in future grid technologies for renewable energy generation, transmission and distribution, supported by renewable hydrogen energy storage and market driven customer responsiveness enabled by new information and communications technologies, to provide a more sustainable, reliable, secure and affordable electricity system. | | | | | | | | | | |

National Interest Test Statement

The Future Grids Training Centre aims to accelerate Australia's transition to a more reliable, affordable, cleaner and resilient energy future through technology innovation and policy reform consistent with the Australian Energy Policy Blueprint. The Centre encompasses all supply sectors from generation through to transmission and distribution to the customer, as well as the emerging hydrogen sector enabling a holistic approach to the complex issues and opportunities associated with the growth, integration and stability of renewable energy. The Centre aims to deliver innovations that facilitate widespread integration of renewable resources into electricity grids and customer engagement while maintaining grid stability. To do this, the Centre brings together energy utilities, consumers, developers and manufacturers and it will train a new generation of researchers, engineers and industry leaders. The innovations and reform options emerging from the Centre will drive growth, productivity and competitiveness and help Australia meet the societal and market challenges presented by the future clean energy economy.

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|---------------------------------|------------|--------------|--------------|--------------|--------------|------------|--------------|
| University of Wollongong | 500,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 1,000,000.00 | 500,000.00 | 5,000,000.00 |
| New South Wales | 999,771.00 | 1,999,731.50 | 1,999,672.50 | 1,999,559.00 | 1,999,508.00 | 999,661.00 | 9,997,903.00 |

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Queensland

Queensland University of Technology

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|-------------------|--|------------|------------|------------|------------|------------|------------|--------------|---|--|--|
| IC210100008 | ARC Training Centre for Behavioural Insights for Technology Adoption (BITA) | 443,388.00 | 932,676.50 | 978,985.00 | 946,014.50 | 719,056.50 | 262,738.50 | 4,282,859.00 | Medical Technologies and Pharmaceuticals, Food and Agribusiness, Cyber Security | Netherlands, Germany, United States of America | DEPARTMENT OF TRANSPORT AND MAIN ROADS, KIAH CONSULTING, DECIDA DIGITAL PTY LTD, SMART PADDOCK PTY LTD., THE BEHAVIOURAL INSIGHTS TEAM, EVIDN PTY LTD, DAIRY AUSTRALIA LIMITED, KEYWORD INTENT PTY LTD, LIVESTOCK PRICING PTY LTD, E3 ADVISORY PTY LTD, DISABILITY EMPLOYMENT AUSTRALIA, GROWER GROUP ALLIANCE (INC), CLEAR GRAIN EXCHANGE, PRINCESS ALEXANDRA HOSPITAL, MEAT & LIVESTOCK AUSTRALIA LIMITED, QUEENSLAND HEALTH, AUSTRALIAN MUNGBEAN COMPANY PTY LTD, TETEC TISSUE ENGINEERING TECHNOLOGIES AG, STRYKER EUROPEAN OPERATIONS LIMITED |
| Dulleck, Prof Uwe | Australia needs accelerated adoption of innovation technologies to improve outcomes in health, agriculture and cybersecurity. Despite technically viable solutions, innovations fail to be adopted due to behavioural barriers. Behavioural approaches can promote significant gains by bridging the barriers to technology adoption. The Centre for Behavioural Insights for Technology Adoption will boost national productivity by identifying, designing and evaluating solutions that address these barriers. By uniting industry and government with world-leading interdisciplinary researchers, the Centre will build transformative capability in people, data and solutions and support Australian organisations to achieve higher returns on technology investment. | | | | | | | | | | |

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National Interest Test Statement

Australia is a country rich in technological innovation. What is often missing is the adoption and widespread use of these innovations for stronger economic growth and prosperity for all Australians. The Centre for Behavioural Insights for Technology Adoption (BITA) focuses on end-users to identify and overcome technical, economic, social and behavioural barriers to the uptake and use of innovations. BITA will boost national productivity by achieving higher returns on public investment in new technologies in health, agriculture and digital industries. BITA will support Australian businesses to scale up and grow with people-focused innovation which removes barriers to new systems and practices. BITA will enable more innovative new products and services to reach end-users in Australian and global markets. We will achieve this by training next-generation researchers and industry leaders with the behavioural science expertise and tools needed to accelerate technology adoption.

Queensland University of Technology 443,388.00 932,676.50 978,985.00 946,014.50 719,056.50 262,738.50 4,282,859.00

The University of Queensland

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|----------------------|--|------------|------------|------------|------------|------------|------------|--------------|------------------------|--|---|
| IC210100023 | ARC Training Centre in Bioplastics and Biocomposites | 498,504.00 | 997,549.50 | 988,124.00 | 977,596.00 | 985,346.50 | 496,829.00 | 4,943,949.00 | Advanced Manufacturing | China (excludes SARs and Taiwan), France, Sweden, Austria, England | NORSKE SKOG PAPER MILLS (AUSTRALIA) LIMITED, SUGAR RESEARCH AUSTRALIA LIMITED, PLANTIC TECHNOLOGIES LIMITED, MANILDRA PTY. LIMITED, QUEENSLAND STATE GOVERNMENT, KIMBERLY-CLARK AUSTRALIA PTY LTD, AUSTRALIAN PACKAGING COVENANT ORGANISATION LTD |
| Pratt, A/Prof Steven | There is unprecedented growth in demand for bioderived and biodegradable materials. This Training Centre in Bioplastics and Biocomposites will capitalise on Australia's abundance of the requisite natural bioresources to drive advances in technology for the development of bioplastic and biocomposite products for the new bioeconomy. The aim is to deliver leading edge research with a holistic focus on technical, social, policy and end of life solutions, training a cohort of industry ready research specialists to underpin Australia's transition to a globally significant bioplastics and biocomposites industry, while at the same time laying the foundations for accelerated growth in this space. | | | | | | | | | | |

National Interest Test Statement

The global bioplastics industry is rapidly growing as the world transitions to a sustainable plastics economy. This Training Centre will capitalise on Australia's substantial bioresources to develop bioderived and biodegradable plastics and composites. It supports two Australian manufacturing research and development priorities: advanced materials and composites, and biomanufacturing for the generation of resilient biodegradable packaging. It also supports two Industrial Transformation Priorities; Advanced Manufacturing, and Food and Agribusiness. The Centre will deliver innovative product diversification solutions for three of our multi-billion dollar agro-industries: wood products, sugar and wheat producers. It will build industry R&D capability to place Australia at the forefront of the bioplastic and biocomposite manufacturing sector, driving advances in technology for the development of products for the new bioeconomy. The expansion into bioplastics and biocomposites manufacturing will generate significant economic and employment benefits for Australia while delivering positive environmental impact.

The University of Queensland 498,504.00 997,549.50 988,124.00 977,596.00 985,346.50 496,829.00 4,943,949.00

Queensland 941,892.00 1,930,226.00 1,967,109.00 1,923,610.50 1,704,403.00 759,567.50 9,226,808.00

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Victoria

Monash University

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|----------------------|---|------------|------------|------------|------------|------------|------------|--------------|--|--------------------------|---|
| IC210100019 | ARC Training Centre for Optimal Ageing | 445,303.00 | 940,902.50 | 994,753.50 | 976,707.50 | 851,851.50 | 374,298.00 | 4,583,816.00 | Medical Technologies and Pharmaceuticals | United States of America | COGSTATE LTD, PHILIPS SLEEP AND RESPIRATORY CARE, ECH INC, HEALTHLOGIX PTY LTD, REDENLAB PTY. LTD., MONASH CITY COUNCIL, CSIRO, COGNANT PTY LTD, FRANKSTON FOUNDRY, ANDHEALTH LIMITED, WELLAWARE PTY LTD, INCLUSIVE AUSTRALIA LIMITED, LATROBE HEALTH ASSEMBLY INC, FLOURISH AUSTRALIA PTY LTD, DEEBLE INSTITUTE, BALLARAT CITY COUNCIL, CURVE TOMORROW PTY LTD |
| Lim, A/Prof Yen Ying | The ARC Training Centre for Optimal Ageing aims to address issues identified by older adults as essential for quality of life. With our industry partners, we aim to train the next generation of researchers to understand, detect and improve psychosocial factors that support mental activity, physical health and social connectedness, and embrace advances in artificial intelligence, digital-enriched environments and adaptive workplaces to deliver effective digital solutions. By developing new capacity and capability to drive the digital transformation of industries supporting our ageing population, our Centre seeks to deliver economic and social benefits that enable Australians to live enriched, healthy and independent lives as they age. | | | | | | | | | | |

National Interest Test Statement

The ITTC in Optimal Ageing brings together trainees from health and life sciences, computer science, design and engineering. It will create a new generation of skilled workers, primed to position Australia at the forefront of research and development at the intersection of technology and ageing. This will enhance the global competitiveness of Australia's digital health and care industry through the generation of new IP and new products that support the ageing population. The centre builds on established and emerging relationships with small and medium sized businesses, national and international technology companies, third sector organisations, city councils and citizens, creating a vibrant culture that will nurture commercialisation and accelerate translation activities. Our digital solutions will generate economic and social benefit by allowing ageing Australians to maintain and increase engagement with society - living at home longer, staying physically active longer, staying within the workforce longer, and enjoying better cognitive functioning and social wellbeing.

Monash University 445,303.00 940,902.50 994,753.50 976,707.50 851,851.50 374,298.00 4,583,816.00

Victoria 445,303.00 940,902.50 994,753.50 976,707.50 851,851.50 374,298.00 4,583,816.00

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Western Australia

Curtin University

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|-----------------------------|---|------------|------------|------------|------------|------------|------------|--------------|-----------------------|--------------------------|--|
| IC210100034 | ARC Training Centre for Healing Country | 499,999.50 | 999,999.00 | 997,999.00 | 993,238.00 | 995,238.00 | 499,999.50 | 4,986,473.00 | Food and Agribusiness | United States of America | MAIN ROADS WESTERN AUSTRALIA, HIVE & WELLNESS AUSTRALIA PTY LTD, GONDWANA LINK LTD, DEPARTMENT OF PRIMARY INDUSTRIES AND REGIONAL DEVELOPMENT , MEEDAC INCORPORATED, GREENING AUSTRALIA LTD, RANGELANDS NRM CO-ORDINATING GROUP (INC.), SOUTH WEST CATCHMENTS COUNCIL, OUTBACK CARBON PTY LTD, SOUTH COAST NATURAL RESOURCE MANAGEMENT INC, ECOHEALTH NETWORK, DEPARTMENT OF JOBS TOURISM SCIENCE AND INNOVATION, PLANTRITE, THE SOCIETY FOR ECOLOGICAL RESTORATION INC., WIDE OPEN AGRICULTURE LTD, CARBON NEUTRAL PTY LTD, HANSON CONSTRUCTION MATERIALS PTY LTD, GELGANYEM LIMITED, BHP BILLITON IRON ORE PTY. LTD. |
| van Leeuwen, Prof Stephen J | Healing Country aims to be a world-first on-country capability, employment and business development training centre for Indigenous Australians. The centre aims to achieve cost-effective restoration solutions that grow and strengthen Indigenous enterprises, expand and bolster diverse training pathways, and conduct innovative research to support the advancement of a diversified Indigenous-led Restoration Economy. Healing Country will fuse Indigenous culture in a cooperative vision where science and traditional approaches to land management and rehabilitation will create and nourish an economy that supports healthy land and transform Indigenous restoration businesses into a major employer of on-country regional jobs. | | | | | | | | | | |

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| National Interest Test Statement | | | | | | | | | | | |
| Australia's degraded and marginal lands cost the national economy \$1.5 billion annually in lost productivity. To revive these diminished landscapes Healing Country reconnects traditional owners to land through sustaining, nurturing and advancing cultural and business independence and empowering local communities. By melding Indigenous and western science for an Indigenous led 'restoration economy' Indigenous businesses will be supported to develop a range of commercial restoration services targeted towards soil carbon capture, storage and management, native seed production and specialised products such as honey, culturally important species, and sandalwood. Through forging meaningful, long-term benefits on-country and an education pipeline with diverse training pathways for indigenous youth we will close the gap on how traditional owners can retain, enrich and sustain their cultures and local communities through caring for land. | | | | | | | | | | | |
| | Curtin University | 499,999.50 | 999,999.00 | 997,999.00 | 993,238.00 | 995,238.00 | 499,999.50 | 4,986,473.00 | | | |
| The University of Western Australia | | | | | | | | | | | |
| IC210100056 Swaminatha-Iyer, Prof Killugudi L | ARC Training Centre for Next-Gen Technologies in Biomedical Analysis The Centre for Next-Gen Technologies in Biomedical Analysis will deliver workforce trained in the development of transformative technologies that will rapidly expand the Australian pharmaceutical, diagnostic and defence sector. The university-industry partnership will increase Australia's manufacturing capability by fast tracking screening, by integrating 3D printing, advanced sensing, big data analytics, machine learning and artificial intelligence for the delivery of optimal solutions in diagnosis, treatment and wellbeing. The centre will deliver training in Industry 4.0 skills which will boost early-stage scale-up and accelerate the sector's supply chain, which is pivotal for the Australian industries to maintain a competitive edge. | 496,126.50 | 994,244.00 | 995,726.50 | 993,688.00 | 496,079.00 | 0.00 | 3,975,864.00 | Medical Technologies and Pharmaceuticals, Advanced Manufacturing, Cyber Security | United States of America, Switzerland, Germany | PHARMAXIS LTD, AVITA MEDICAL LTD, INVENTIA LIFE SCIENCE PTY. LTD., MEDIGROWTH AUSTRALIA PTY LTD, CARL ZEISS PTY. LIMITED, FERRONOVA PTY LTD, BRAINCHIP HOLDINGS LTD, MUPHARMA PTY. LTD., MEDELA AUSTRALIA PTY LTD, IONIS PHARMACEUTICALS, DUG TECHNOLOGY LTD, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, ILLUMINA INC., MILLENNIUM SCIENCE PTY LTD |
| National Interest Test Statement | | | | | | | | | | | |
| Integration of machine learning, artificial intelligence (AI), big data analytics and automation is pivotal for the future of Australian healthcare and wellbeing. The collaborative university-industry partnership will transform the pharmaceutical, diagnostic and defence sectors by providing industry 4.0 skills relevant for the future of Australia . The centre will achieve this by training a new workforce in automation, sensors, big data analytics, machine learning and artificial intelligence. The integration of these technologies in the industrial pipeline will boost the economy by creating new job opportunities, attracting global investments in Australian technology and generation of new start-up companies. This will fast track production, quality control and deliver optimal solutions for healthcare and wellbeing. | | | | | | | | | | | |
| | The University of Western Australia | 496,126.50 | 994,244.00 | 995,726.50 | 993,688.00 | 496,079.00 | 0.00 | 3,975,864.00 | | | |
| | Western Australia | 996,126.00 | 1,994,243.00 | 1,993,725.50 | 1,986,926.00 | 1,491,317.00 | 499,999.50 | 8,962,337.00 | | | |
| | | 3,883,092.00 | 7,865,103.00 | 7,955,260.50 | 7,886,803.00 | 7,047,079.50 | 3,133,526.00 | 37,770,864.00 | | | |

* Note - Indicative funding for approved projects will be made available through a funding variation under section 54 of the ARC Act