

Economics Legislation Committee
ANSWERS TO QUESTIONS ON NOTICE
Industry, Innovation and Science Portfolio
2017 - 2018 Budget Estimates
31 May – 1 June 2017

AGENCY/DEPARTMENT: DEPARTMENT OF INDUSTRY, INNOVATION AND SCIENCE

TOPIC: Funding for the large-scale collaborative research projects

REFERENCE: Questions on Notice (Hansard, 1 June 2017, page 86)

QUESTION No.: BI-48

Senator KIM CARR: Could you, on notice, give me a breakdown of all the projects that have received funding for the large-scale collaborative research projects fund—the name of the growth fund, funding provided, the description of the project, the project partners and the amount of private sector funding that was attracted through co-investment?

Mr Lawrence: Yes, I can do that.

ANSWER:

A table with details of all announced projects is attached. A list of these projects is also available on our website.

Growth Centre – Project Fund information

Australian Cyber Security Growth Network (Cyber Security Growth Centre)

Currently there are no projects being funded under the Project Fund by the Cyber Security Growth Centre (ACSGN). Relevant funding does not become available to the ACSGN until August 2017.

Advanced Manufacturing Growth Centre (AMGC)				Source:
A total of \$1,000,000 has been committed under AMGC's Project Fund.				AMGC Website
Name of project	Description	Lead applicant(s)	Other participants	\$ values
Quickstep Automotive Carbon Fibre Front Fender	Develop a 'low cost carbon composite fender' for the European automotive market.	Quickstep Holdings	Quickstep Holdings; Special Partners P/L; Deakin University	Fund Contribution \$250,000 Partner Contribution \$1,106,000 Project Value \$1,356,000
Watersource	Design, development, production, distribution and monitoring of device to create point-of-entry potable water into rural and regional communities	Adidem	Adidem; Bosch Australia; Monash University	Fund Contribution \$250,000 Partner Contribution \$266,000 Project Value \$516,000
Advanced Fibre Cluster – Geelong (contracts under negotiation)	Fund to directly support technology leadership and collaboration between local manufacturers and researchers in delivering joint projects for export purposes - Note that funding for the cluster has been announced and a number of	Geelong Manufacturing Council	Geelong Manufacturing Council; Austeng; RMIT	Fund Contribution \$250,000 Project Value \$500,000 (minimum)

	<p>projects are planned to be announced and delivered through it. Planned projects include:</p> <p>(1) Austeng/RMIT short-polymer bandages; and</p> <p>(2) Carbon fibre pedestrian bridges</p>			
<p>Swinburne Manufacturing Futures Research Institute (contracts under negotiation)</p>	<p>Develop Australia's first research institute dedicated to Industry 4.0 technology targeting SMEs to assist in their awareness and adoption of Industry 4.0 opportunities.</p>	<p>Swinburne University</p>	<p>Swinburne University</p>	<p>Fund Contribution \$250,000</p> <p>Project Value \$500,000 (minimum)</p>

Food Innovation Australia Limited (FIAL)				<i>Source: FIAL website</i>
<i>A total of \$412,500 has been awarded to projects under FIAL's Project Fund. The total Project Value is \$825,000.</i>				
Name of project	Description	Lead applicant(s)	Other participants	\$ values
Australian native Lemon and Anise Myrtle extracts to replace chemical preservatives (contracts under negotiation)	Develop a new generation of ingredients extracted from Lemon Myrtle for use as a preservative in food. Conversion of the extracts into nano-particles will also target applications in pre-packaged foods.	Australian Rainforest Products	QAAFI (Queensland Alliance for Agriculture and Food Innovation)	Fund Contribution \$170,000 Partner Contribution \$170,000 Project Value \$340,000
In-vitro Glycaemic Index testing methodology (contracts under negotiation)	Develop an automated, rapid test for determining the Glycaemic Index of a food. It will contribute to the breeding, sourcing, formulation and testing of starch-based foods and ingredients. This work will also assist with characterising starch properties to enable improved and more cost effective predictability of development and reformulation of lower GI foods to address diabetes challenges in Australia.	Logio	SUGiRs; Sydney University GI Research Service; University of Sydney	Fund Contribution \$127,500 Partner Contribution \$127,500 Project Value \$255,000
Microwave Assisted Thermal Sterilisation (contracts under negotiation)	Apply microwave assisted thermal sterilisation (MATS) technology in the development of ready meal products. Convenience food products prepared with MATS will meet the needs of retail, export, hospitality and food service markets. The project will help to	Simplot	CSIRO	Fund Contribution \$115,000 Partner Contribution \$115,000 Project Value \$230,000

	inform companies on investment decisions for further development of the use of MATS for their specific market opportunities.			
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METS Ignited (Mining Equipment, Technology and Services Growth Centre)

*A total of \$757,106 has been granted to projects under METS Ignited's Project Fund.
The total Project Value is \$2.35m.*

Source: METS Ignited website; and additional detail provided by the Growth Centre;

Name of project	Description	Lead applicant(s)	Other participants	\$ values
CORE Innovation Hub - Supporting the first year of operation for a resource industry focused co-working space	The CORE Innovation Hub is undertaking a 12-month pilot phase for CORE's first year that focuses on co-locating representatives and influencers from across the resources innovation ecosystem to create a dynamic, sector-focused hub for collaboration and innovation opportunities in resources technology.	CORE Innovation Hub	National Energy Resources Australia (NERA); Austmine; Unearthed; Spacecubed; WesTrac	Fund Contribution (NERA) \$100,000 Fund Contribution (METS Ignited) \$100,000 Partner Contribution \$200,000 Project Value \$400,000
Resources Ready Online (contracts under negotiation)	Expand a successful South Australian seminar and workshop series for the resources sector to a national audience	RESA (Resources and Engineering Skills Alliance)		Fund Contribution \$154,000 Partner Contribution \$154,000 Project Value \$308,000
Women in STEM: METS career pathway program (contracts under negotiation)	Connecting universities and METS companies to foster links between female STEM students and a career in METS	Austmine		Fund Contribution \$103,106 Partner Contribution \$661,211 Project Value \$764,317
METS open innovation program	Program to improve engagement with METS companies in early	Unearthed		Fund Contribution \$305,500

(contracts under negotiation)	stage innovation activities (e.g. hackathons)			Partner Contribution \$305,500 Project Value \$611,000
Education & Communication Program for CEEC Energy Curve project (contracts under negotiation)	CEEC is an industry tool that enables mining operations to benchmark their comminution energy performance against similar operations from around the world.	Coalition for Energy Efficient Comminution (CEEC)	Note: This project is partially funded by the Queensland Government	Fund Contribution \$94,500 QLD Government Contribution \$40,000 Partner Contribution \$134,500 Project Value \$269,000

MTP Connect (Medical Technologies and Pharmaceuticals Growth Centre) <i>A total of \$7.775m has been granted to projects under MTP Connect's Project Fund. The total Project Value is \$23.6m</i>				<i>Source: MTPConnect</i>
Name of project	Description	Project Lead	Other participants	\$ values
Industry Mentoring Network in STEM (IMNIS) program	Aiming to narrow the cultural gap that exists in Australia between business and academia through a program that will develop a national mentoring program linking PhD students with qualified industry mentors.	Australian Academy of Technology and Engineering	AusBiotech	Fund Contribution \$200,000 Partner contribution \$210,000 Project Value \$410,000
National MedTech Accelerator	To leverage Australia's existing industry and research capabilities in the acceleration of new high-value, medical device technology development opportunities through a number of focused, 15-month actuator programs.	STC Australia	Artesian Venture Partners	Fund Contribution \$1,100,000 Partner contribution: \$8,000,000 Project Value \$9,100,000
Upgrade CSIRO Protein Production Platform	Aiming to upgrade the CSIRO (Clayton) protein production platform to human Good Manufacturing Practice (GMP) capability for pilot-scale (<=200L) for a variety of expression systems (mammalian/yeast/ bacterial) as well as scale-up of cells. Will include a training program for post graduate study.	CSIRO	Monash University	Fund Contribution \$1,100,000 Partner contribution \$1,100,000 Project Value \$2,200,000
Support for BioFab3D@ACMD	Support for BioFab3D@ACMD, a robotics and biomedical engineering centre, embedded	St Vincent's Hospital (Melbourne) Limited	University of Melbourne; University of Wollongong; Swinburn University of	Fund Contribution \$1,100,000 Partner Contribution

	within a hospital. Researchers, clinicians, engineers and industry partners will work alongside each other with a vision to build biological structures such as organs, bones, brain, muscle, nerves and glands.		Technology; RMIT University; Stryker Australia Pty Ltd	\$1,274,864 Project Value \$2,374,864
National Digital Health Initiative	Creating an integrated ecosystem for the development & commercialisation of evidence-based digital health products.	Murdoch Children's Research Institute	Murdoch Children's Research Institute; Planet Innovation; Curve Tomorrow; Royal Children's Hospital; HealthXL; GP2U Telehealth Pty Ltd; AusBiotech; RMIT University; Novartis Pharmaceuticals.	Fund Contribution \$900,000 Partner contribution \$900,000 Project Value \$1,800,000
Comprehensive Global Investment program	Comprehensive global investment program for the Australian life science sector – companies, investors and researchers.	AusBiotech Ltd	ASX; Dibbs Barker; WEBuchan; KPMG	Fund Contribution \$400,000 Partner contribution \$400,000 Project Value \$800,000
Australian Centre for Regenerative Medicine	An Australian hub of Canada's Commercialisation Centre for Regenerative Medicine (CCRM) will support the development of foundational technologies to accelerate the commercialisation of regenerative medicine products and therapies.	Monash University	CSIRO; CCRM Canada; Cell Therapies; St Vincent's Institute of Medical Research; AusBiotech Ltd	Fund Contribution \$200,000 Partner contribution: \$500,000 Project Value \$700,000
Hit ID platform	Build on a national framework to provide Australian drug discovery	Cancer Therapeutics CRC Pty Ltd (CTx)	UniQuest; Walter and Eliza Hall Institute (WEHI);	Fund Contribution \$1,100,000

	organisations access to a comprehensive Hit ID platform that includes: a fit for purpose drug discovery library (up to 300,000 compounds); an ultra-high throughput screening facility; fragment based drug design capability; and a state of the art software platform for in silico drug discovery.		Children’s Cancer Institute (CCI); Griffith University /Compounds Australia.	Partner contribution \$1,384,290 Project Value \$2,484,290
Tele-health strategy to increase access to clinical trials	COSA has developed a national guide for implementation of the Australasian Tele-Trial Model in consultation with clinical trial sponsors, clinicians, health administrators and regulatory bodies. This project will implement a feasible and effective tele-health strategy to increase access to clinical trials closer to home, while at the same time ensuring the proper conduct of cancer clinical trials.	Clinical Oncology Society of Australia (COSA)	Rare Cancers Australia; Cancer Voices Australia; Australian Institute of Tropical Health and Medicine (AITHM); The Garvan Institute of Medical Research; The Walter and Eliza Hall Institute of Medical Research (WEHI); Icon Group; c/-Icon Consolidated Holdings P/L; St John of God Hospital; Medicines Australia; AbbVie Pty Ltd; Janssen; Novartis Pharmaceuticals Australia Pty Ltd; Pfizer Australia Pty Ltd.	Fund Contribution \$115,000 Partner contribution \$230,000 Project Value \$345,000
National Medical Device Partnering Program (NMDPP)	Initial scoping of the roll out of a National Medical Device Partnering Program (NMDPP) to bring together research, clinical and industry partners in a streamlined	Flinders University of South Australia	CSIRO; STC Australia; MTAA	Fund Contribution \$150,000 Partner contribution \$150,000

	process for collaboration and product development.			Project Value \$300,000
Vaccine research capabilities	Project to assist in landscaping Australia's vaccine research capabilities and relevant services for the use by the whole MTP sector in a searchable database. Australia's first national Vaccine conference.	Vaxine Pty Ltd	Mylexa Pty Ltd; Australian Respiratory and Sleep Medicine Institute Ltd.	Fund Contribution \$250,000 Partner contribution \$250,000 Project Value \$500,000
The Bridge Program	A consortium of 15 companies, universities and industry associations that aims to transfer practical skills on pharmaceutical commercialisation through online and residential training in drug discovery and development, and direct exposure to industry practitioners in the scientific, legal, financial, clinical, regulatory and reimbursement disciplines that contribute to the commercialising of medicines.	Queensland University of Technology (QUT)	Abbvie; Amgen; Australian Private Equity & Venture Capital Association Limited; Bristol-Myers Squibb Australia; Medical Research Commercialisation Fund; Boehringer Ingelheim; Celgene; CSL Limited; Janssen-Cilag; Macquarie University; Medicines Australia; Merck Sharp & Dohme (Australia); Mundipharma; Novartis Pharmaceuticals.	Fund Contribution \$540,000 Partner contribution \$540,000 Project Value \$1,080,000
National consortium for translational medical research and pharmaceuticals	A national consortium for translational medical technology and pharmaceuticals research and training. Small grant offered for scoping / development project on	Centre for Entrepreneurial Research and Innovation (CERI)	The University of Western Australia; Monash University; University of Sydney; SPARK Co-Lab Ltd; University of Technology Sydney; Proteomics	Fund Contribution \$150,000 Partner contribution: \$150,000 Project Value \$300,000

research and training	governance and national collaboration work.		International Limited; Orthocell Ltd, St John of God Healthcare; Avita Medical; Adelaide University; Murdoch University; Curtin University; Edith Cowan University; Harry Perkins Institute of Medical Research; Telethon Kids Institute; Lion's Eye Institute; Ear Science Institute of Australia; Perron Institute for Neurological and Translational Science Limited	
Biofabrication research centre	Support for a biofabrication research centre located on a hospital campus utilising 3D digital scanning, modelling and advanced manufacturing technologies. Initially scanning and modelling ears for children with Microtia.	Queensland University of Technology	Hear and Say; Metro North Hospital and Health Service	Fund Contribution \$100,000 Partner contribution: \$300,000 Project Value \$400,000
Clinical Trial Improvement Initiative	Clinical Trial Improvement Initiative - based on the CTTI (US) model with a vision for a whole of sector approach to improve the quality, efficiency and impact of clinical trials.	Bellberry Ltd	Australian Clinical Trials Alliance Limited (ACTA); The George Institute for Global Health (TGI) & George Clinical (GC); NHMRC Clinical Trials Centre (CTC); with an additional 25	Fund Contribution \$370,000 Partner contribution: \$430,000 Project Value \$800,000

			industry expressions of interest.	
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National Energy Resources Australia – NERA (Oil Gas and Energy Resources Growth Centre)

A total of \$554,000 has been granted to projects under NERA’s Project Fund.

The total Project Value is \$1.48m

*Source: NERA website
www.nera.org.au*

Name of project	Description	Lead applicant(s)	Other participants	\$ values
CORE Innovation Hub - Supporting the first year of operation for a resource industry focused co-working space	The CORE Innovation Hub is undertaking a 12-month pilot phase for CORE's first year that focuses on co-locating representatives and influencers from across the resources innovation ecosystem to create a dynamic, sector-focused hub for collaboration and innovation opportunities in resources technology.	CORE Innovation Hub	METS Ignited; Austmine; Unearthed; Spacecubed; WesTrac.	Fund Contribution (NERA) \$100,000 Fund Contribution (METS Ignited) \$100,000 Partner Contribution \$200,000 Project Value \$400,000
Innovation Voucher Program	NERA has awarded \$180,000 in nine grants of \$20,000 each to small-to-medium sized businesses to deliver an innovative solution to a technical challenge which has limited their customer’s ability to maximise their business operations in the energy resources value chain. The NERA grant must be matched by industry funds.	Project Match Australia Pty Ltd; Verterra Ecological Engineering; Kinetic Group Worldwide; Exploration Drill Rigs Pty Ltd; Soter Analytics; Imagine Intelligent Materials Pty Ltd and Duromer Products Pty Ltd; Tensa Equipment (two projects); Kinyun Australia		Fund Contribution \$180,000 Partner Contribution \$180,000 Project Value \$360,000

Tropical cyclone improved predictions	An industry collaborative project with the Australian Bureau of Meteorology aimed at advancing Australia's understanding of tropical cyclones. This project will assist in improving safety for Australia's infrastructure through better design and response strategies, resulting in substantial cost savings across many industry sectors.	Bureau of Meteorology (BOM)	Chevron Australia Pty Ltd; Shell Australia Pty Ltd; Woodside Energy Ltd	Fund Contribution \$274,000 Partner Contribution \$350,000 BOM in kind contribution \$100,000 Project Value \$724,000
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