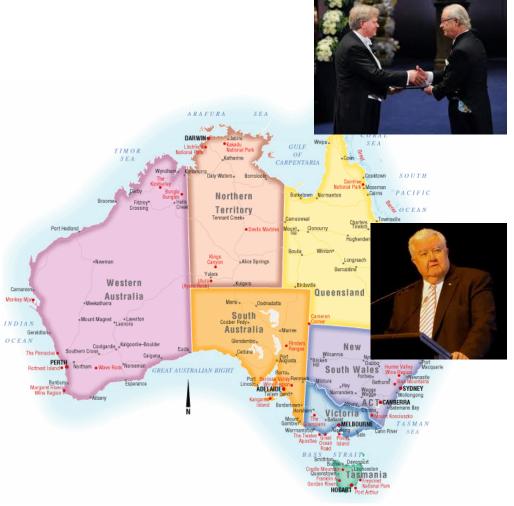
Strategic research cooperation with the EU – perspective from an advanced non-member economy

Martin Gallagher

Association de valorisation des relations internationales scientifiques et techniques, Paris
23 November 2012





Australian Research Council - http://www.arc.gov.au/

Provides competitive research grants and fellowships, open also to international researchers

National Health and Medical Research Council - http://www.nhmrc.gov.au/

Provides competitive grants and fellowship for medical research, open also to international researchers

Universities

Universities Australia- peak body for all 39 universities

http://www.universitiesaustralia.edu.au/

Group of Eight – most research intensive universities - http://www.go8.edu.au/

Australian Technology Network - http://www.atn.edu.au/

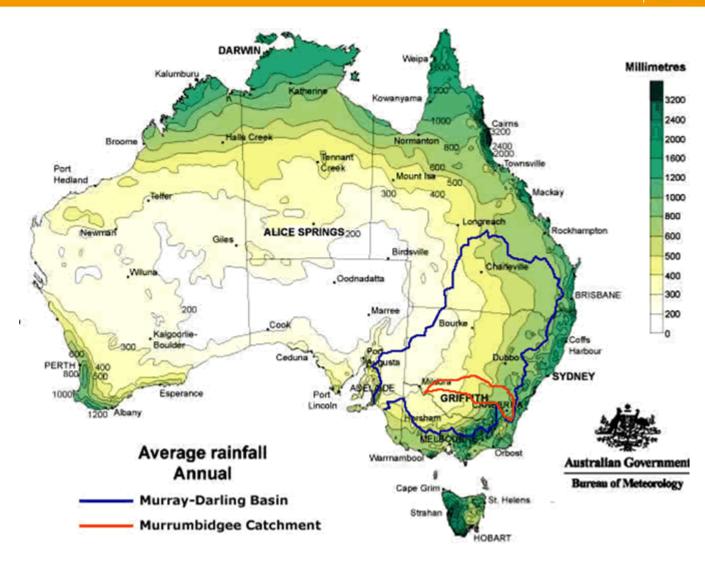
Innovative Research Universities - http://www.iru.edu.au/

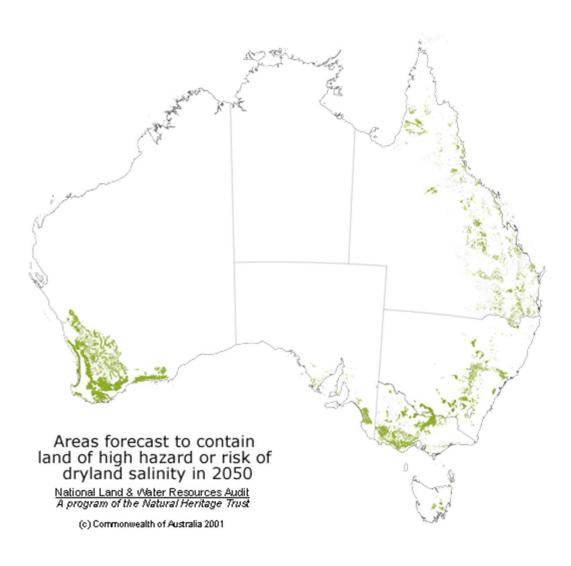
Regional University Network - http://www.run.edu.au/

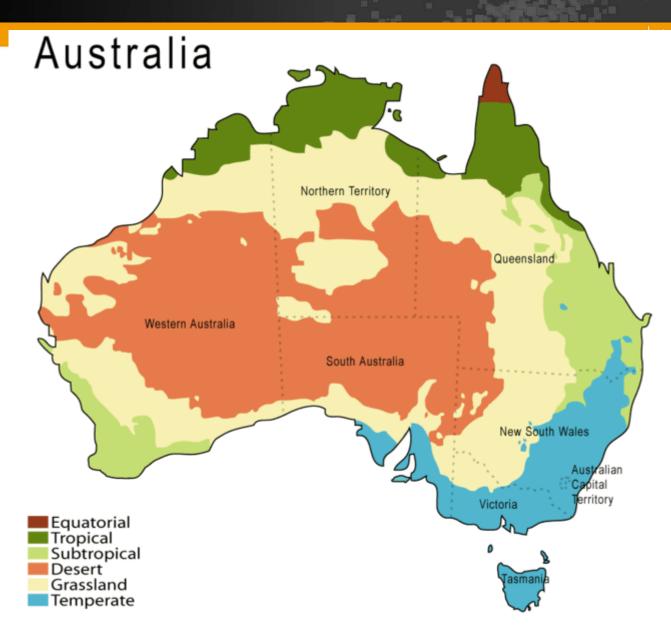
Commonwealth Scientific and Industrial Research Organisation -

http://www.csiro.au/

Australia's National Research Centre, strong international linkages (also through Global Research Alliance), opportunities for international cooperation through CSIRO Flagship Collaboration Fund



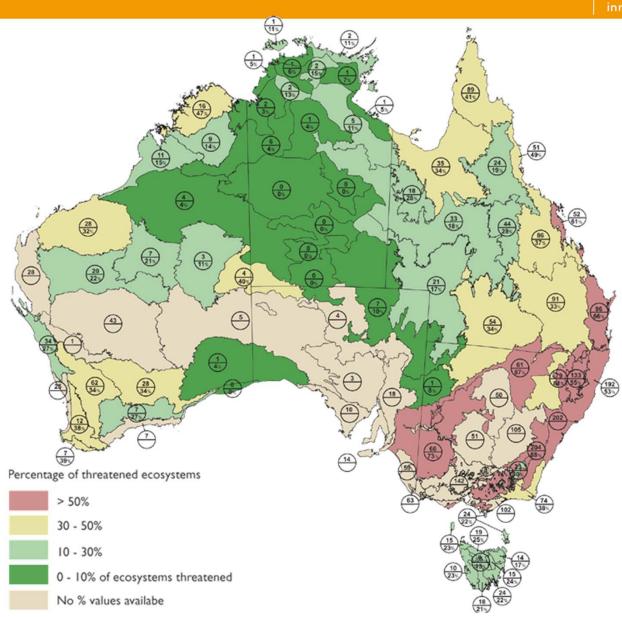




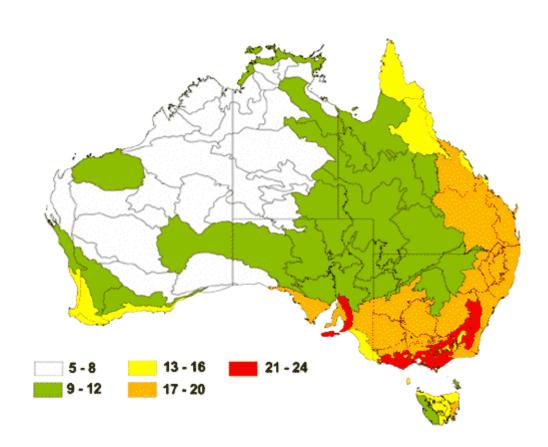


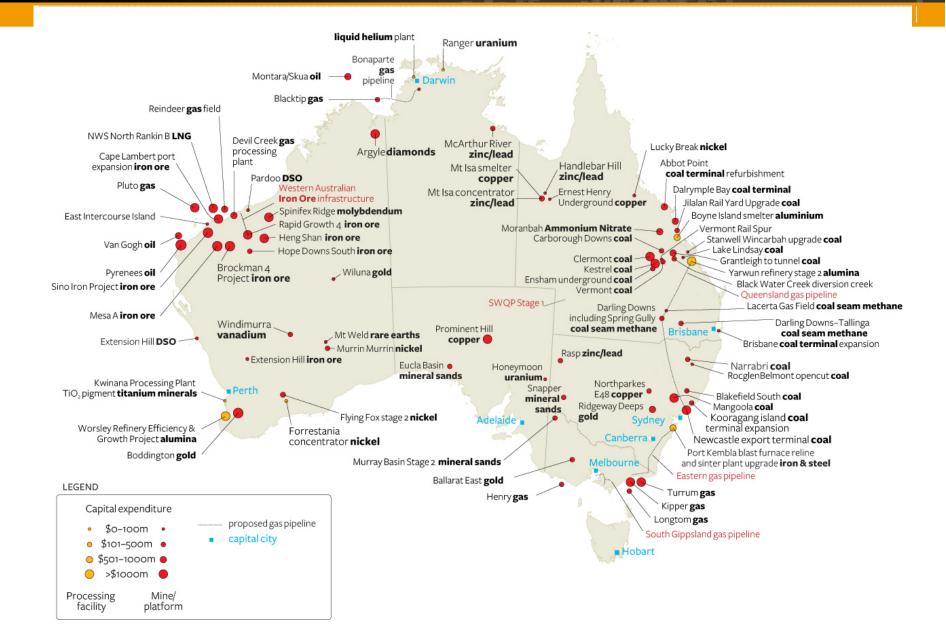
Department of Industry, Innovation, Science, Research and Tertiary Education



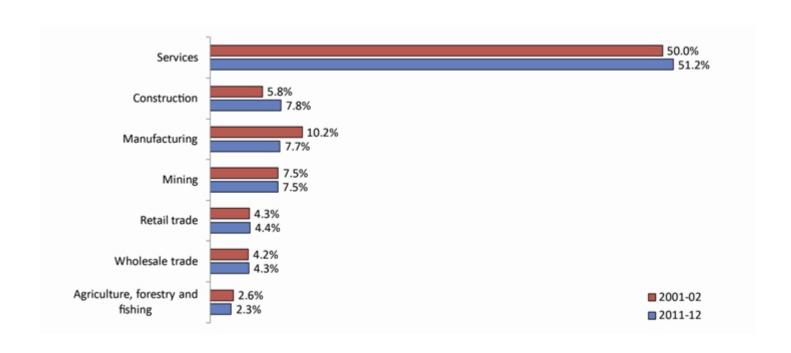


Number of terrestrial vertebrate and invertebrate non-indigenous species with major effect

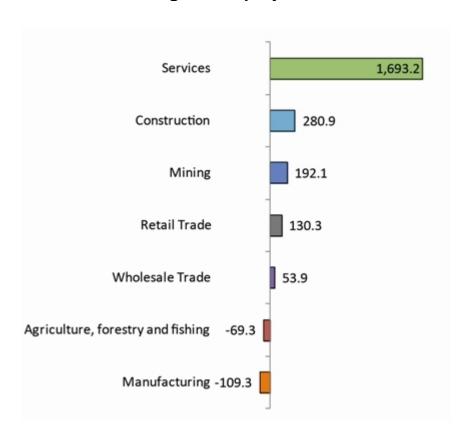




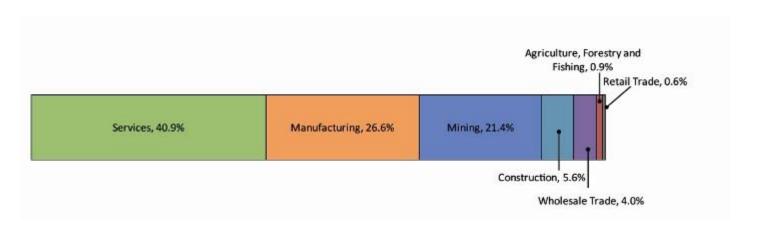
Industry contribution to Australian GDP 2011-12



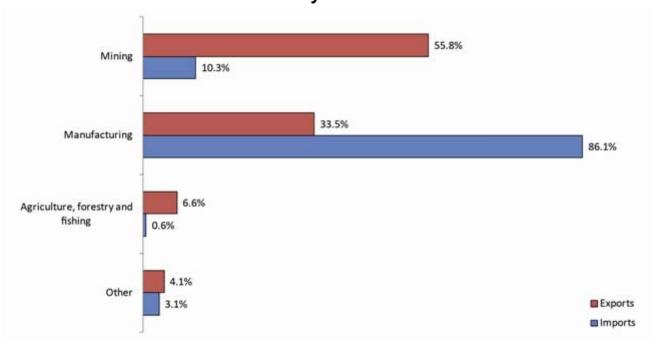
Change in employment 2002-12

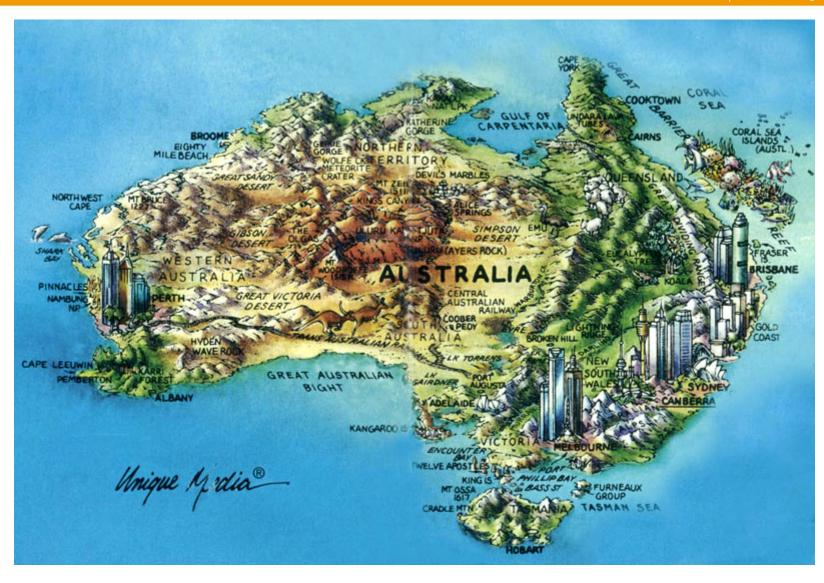


Industry contribution to business expenditure on R&D 2010-11



Industry contribution to merchandise trade 2011-12











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Australia in Brief

World's 14th largest economy

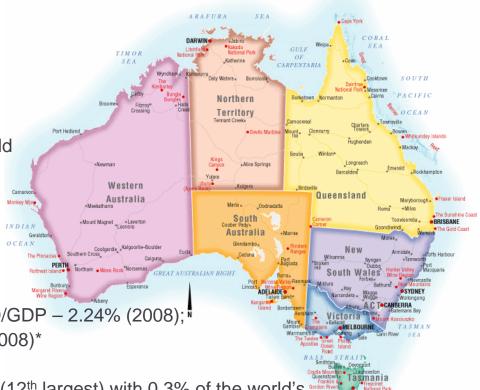
Located in the fastest-growing region of the world

- Population is 22.5 million
- 6th largest nation (land mass);
 3rd largest marine area; unique flora and fauna

Research Intensity - Gross Expenditure on R&D/GDP – 2.24% (2008);
 Business Expenditure on R&D/GDP – 1.35% (2008)*



Citation impact above world average





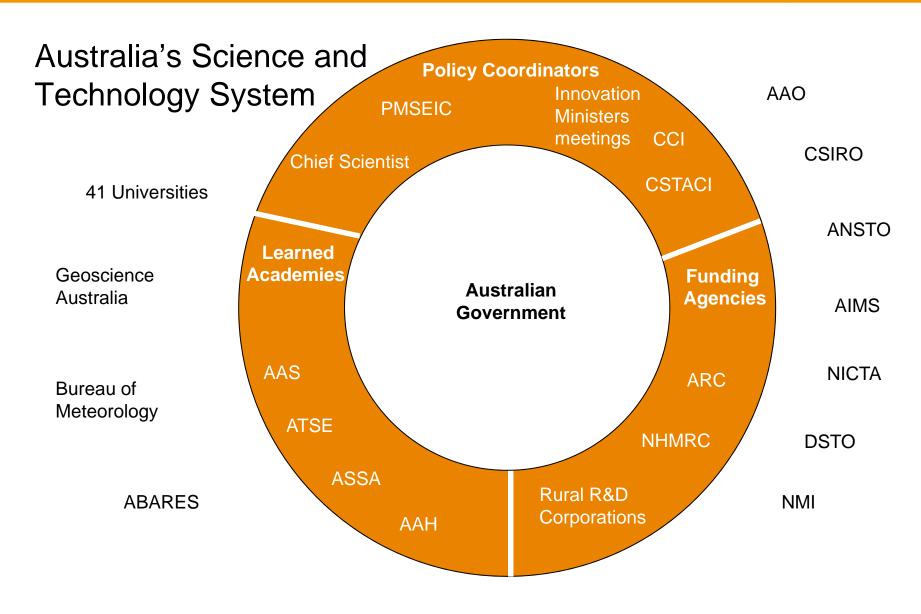
Australia's National Research Priorities

An Environmentally Sustainable Australia

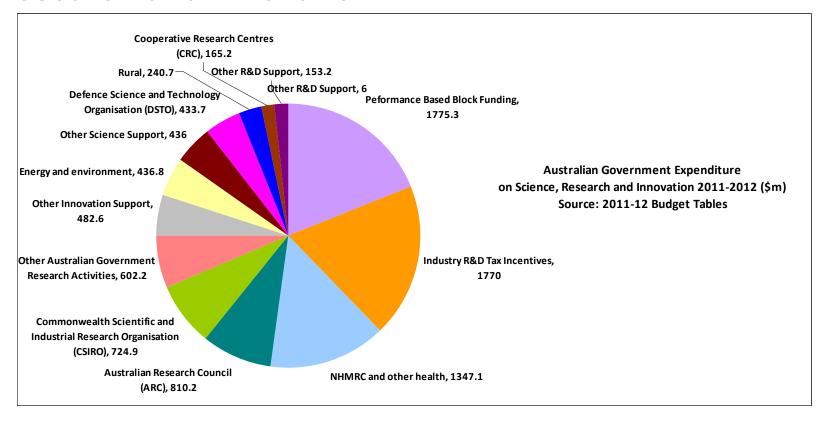
Water resources; Transforming existing industries; Soil research; Emissions reduction and capture; Sustainable use of biodiversity; Developing deep earth resources; Responding to climate change and variability.

- Promoting and Maintaining Good Health
 Infant & Childhood Health; Aged Health; Preventative healthcare; Strengthening social and economic fabric.
- Frontier Technologies for Building and Maintaining Australian Industries Breakthrough science; Frontier technologies; Advanced materials; Smart information use; Promoting an innovation culture & economy.
- Safeguarding Australia

Protecting critical infrastructure; Understanding our region & the world; Counteract the impact of invasive species; Protection from terrorism and crime; Transformational defence technologies.



Australian Government support for science, research and innovation





Australian Government support – by area

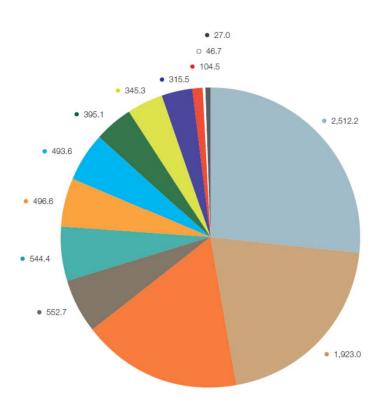


Figure 2: Australian Government support for science, research and innovation by SEO code (\$m)

(Source: 2011-12 Budget tables)

Key

- General advancement of knowledge
- Industrial production and technology
- Health
- Agriculture
- Energy
- Exploration and exploitation of the earth
- Defence
- Environment
- Transport, telecommunication, infrastructure
- Political and social systems
- Culture, recreation, religion and media
- o Exploration and exploitation of space
- Education



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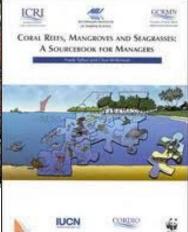














Oil and Dispersed Oil Mangrove Ecosystems in Australia **Executive Summary**



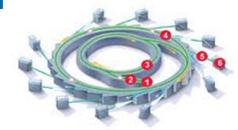


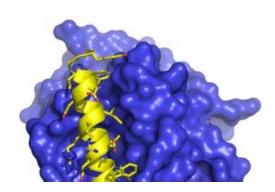
























ADVANCED CRO





















CRC for Mental Health

















australian phenomics network





































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MACQUARIE UNIVERSITY

























FoR Code	FoR Name	Average Rating	Assessed UoEs	FTEs	Research Outputs W
01	Mathematical Sciences	3.2	24	880	8,659
0101	Pure Mathematics	3.2	18	214	2,363
0102	Applied Mathematics	3.6	17	250	2,910
0103	Numerical and Computational Mathematics	3.8	5	73	911
0104	Statistics	2.9	12	224	1,731
0105	Mathematical Physics	4.5	6	60	688
0199	Other Mathematical Sciences	n/a	0	59	55
02	Physical Sciences	3.7	24	965	13,666
0201	Astronomical and Space Sciences	4.2	13	204	3,374
0202	Atomic, Molecular, Nuclear, Particle and Plasma Physics	2.9	11	152	2,746
0203	Classical Physics	5.0	1	33	441
0204	Condensed Matter Physics	3.5	15	196	2,425
0205	Optical Physics	4.0	12	189	3,067
0206	Quantum Physics	4.5	8	62	837
0299	Other Physical Sciences	3.6	5	130	776
03	Chemical Sciences	3.5	26	1,154	11,915
0301	Analytical Chemistry	3.5	17	157	1,883
0302	Inorganic Chemistry	2.8	12	115	1,791
0303	Macromolecular and Materials Chemistry	4.1	10	153	1,415
0304	Medicinal and Biomolecular Chemistry	3.6	9	153	903
0305	Organic Chemistry	2.9	11	181	1,534
0306	Physical Chemistry (Incl. Structural)	3.7	21	261	3,664
0307	Theoretical and Computational Chemistry	4.5	4	54	375
0399	Other Chemical Sciences	2.5	2	82	350
04	Earth Sciences	3.8	21	718	8,258
0401	Atmospheric Sciences	4.3	3	58	557
0402	Geochemistry	4.1	9	106	1,048
0403	Geology	4.1	15	222	3,073
0404	Geophysics	3.4	9	78	1,023
0405	Oceanography	3.6	8	71	977
0406	Physical Geography and Environmental Geoscience	3.7	13	147	1,482





Building strategic research cooperation







Department of Industry, Innovation, Science, Research and Tertiary Education

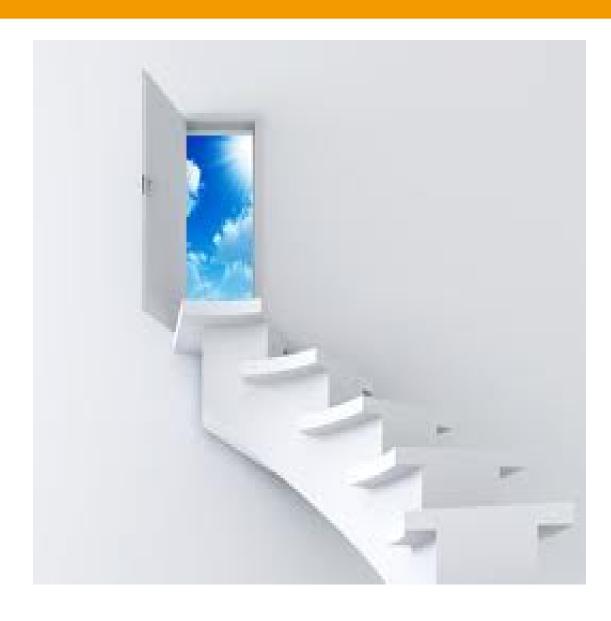




- JSTCC steps to strategic research collaboration
- Identification of potential research priorities for consideration by the JSTCC
- Scientific discussions to test the depth and commonality of interests
- JSTCC consideration and adoption as a priority
- Consideration in the EU Member State processes to set the annual EU research work programs (funding calls) and adoption of call text targeting Australia
- Orchestration of in-principle Australian funding support for EU calls targeted at Australia
- Development of Australia-EU consortia and the preparation of call proposals
- Evaluation of funding bids
- Contract negotiation for successful proposals
- Signing of contacts and commencement of research.



- You can get it wrong!
- Identification of potential research priorities for JSTCC consideration ASYMMETRIC!
- Scientific discussions to test the depth and commonality of interests INTEREST WITHOUT COMMITMENT/CAPABILITY!
- Consideration in the EU Member State processes to set the funding calls CAN BE CHALLENGING FOR THE COMMISSION!
- Orchestration of in-principle Australian funding support for EU calls targeted at Australia CAN BE CHALLENGING!
- Development of Australia-EU consortia and the preparation of call proposals –
 COMPETITIVE NEUTRALITY!



Australian Government

Department of Industry, Innovation, Science, Research and Tertiary Education

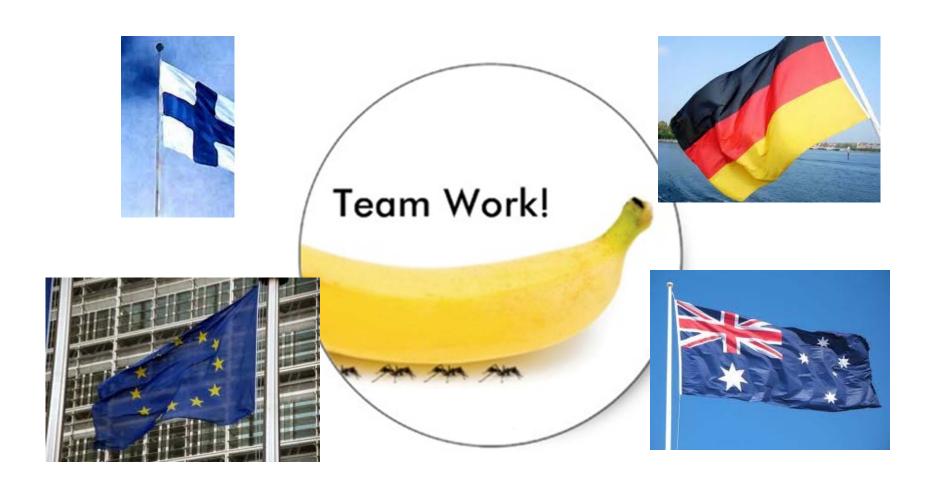
innovation.gov.au



THE DIGESTIVE SYSTEM



CAESIE CONSORTIUM





Australian Government

Department of Industry, Innovation, Science, Research and Tertiary Education



