

## National Science Challenges – Independent Assessment Panels for Tranche 2

### Ageing Well

Name (role) (location)	Biographical details
<p>Tricia Harris (Chair) (New Zealand)</p>	<p>Consultant on organisational strategy and development for clients including the Ministry of Research, Science, and Technology (MoRST), CRIs, universities, and the Consortium of International Research Centres (World Bank)</p> <p>Former Group Manager Science, AgResearch and Chief Science Advisor, Foundation for Research, Science and Technology</p> <p>Director of the Health Research Council for two terms</p> <p>Reviewer for UK Biotechnology and Biological Sciences Research Council and the Scottish Executive Environment and Rural Affairs Department</p> <p>2005 – awarded ONZM for services to science</p> <p>PhD in nutrition from Cambridge University</p>
<p>Paula Searle (Vision Mātauranga) (New Zealand)</p>	<p>Manager of Māori Health Research, Ministry of Health</p> <p>Works with Te Puni Kōkiri on implementation of Whānau Ora action research</p> <p>Previously employed in evaluation and monitoring role at Te Puni Kōkiri</p> <p>MA in geography from the University of Auckland</p>
<p>Kaarin Anstey (Governance) (Australia)</p>	<p>Director, Centre for Research on Ageing, Health and Wellbeing, Australian National University (ANU)</p> <p>Director, Dementia Collaborative Research Centre – Early Diagnosis and Prevention, ANU</p> <p>Adjunct Professor, Pennsylvania State University</p> <p>Research interests include prevention of cognitive decline and dementia, mental health, strategies to optimise ageing well, data synthesis, driving safety, and longitudinal research</p> <p>PhD in psychology from the University of Queensland</p>
<p>James Buwalda (Outcomes) (New Zealand)</p>	<p>Director, Innovation Strategy Ltd (consulting on strategy and innovation issues and leading/facilitating research and innovation collaborations)</p> <p>Previously:</p> <ul style="list-style-type: none"> <li>• Acting Director of Bioprotection Research Centre</li> <li>• Chief Executive of Department of Labour and Ministry of Research, Science and Technology</li> <li>• senior manager and science leader at HortResearch</li> </ul> <p>PhD in plant physiology from the University of London</p>
<p>Julie Ratcliffe (Economic/Financial) (Australia)</p>	<p>Professor in Health Economics, School of Medicine, Flinders University</p> <p>Chair of the Flinders Centre for Clinical Change and Health Care Research, a Flinders University collaboration of over 80 members focusing on the translation of evidence to clinical outcomes across multiple health care</p>

	<p>disciplines</p> <p>Previously held academic positions at the School of Health and Related Research at Sheffield University, Health Economics Research Group at Brunel University, and Health Economics Research Unit at the University of Aberdeen</p> <p>Areas of expertise include the measurement and valuation of health outcomes for economic evaluation, economic evaluation of new and emerging health care technologies, and patient and general population preferences for health care services</p> <p>Has authored over 100 papers in peer-reviewed journals</p> <p>PhD in health economics from Brunel University</p>
<p>Lance Macaulay (Science) (Australia)</p>	<p>Brain Health Theme Leader in CSIRO's Preventative Health Flagship (2010-present)</p> <p>Previously Obesity Theme Leader 2009-2010</p> <p>Over 30 years' experience in cell biology and biochemistry, specifically signal transduction, insulin action, and metabolic regulation</p> <p>More recent interests aimed at understanding mechanisms that control age onset diseases including vascular disease, type II diabetes, and Alzheimer's disease</p> <p>Member of the management committees of the Australian Imaging, Biomarker &amp; Lifestyle Flagship Study of Ageing (AIBL) and START stroke clinical trial</p> <p>Has published over 70 peer-reviewed publications</p> <p>Honorary Fellow, University of Melbourne Department of Medicine, Royal Melbourne Hospital, and St Vincent's Hospital</p> <p>PhD in biochemistry from Monash University</p>
<p>Robin Daly (Science) (Australia)</p>	<p>Associate Head of School Research and Chair of Exercise and Ageing at the Centre for Physical Activity and Nutrition Research, Deakin University</p> <p>Major research interests include evaluating the effects of exercise and nutrition for the prevention and management of common chronic diseases such as osteoporosis, sarcopenia, falls and type 2 diabetes, health issues related to vitamin D deficiency, dietary protein in the elderly, and chronic low-grade systemic inflammation, and the translation of research into practice</p> <p>Has served as a member of the Arthritis, Musculoskeletal and Sports National Health and Medical Research Council (Australia) Project Grant Review Panel from 2008-10 (Deputy Chair in 2009)</p> <p>PhD in physiology/exercise physiology from RMIT University</p>
<p>Virpi Timonen (Science) (Ireland)</p>	<p>Professor, Social Work and Social Policy, Trinity College Dublin</p> <p>Founded Social Policy and Ageing Research programme at Trinity College in 2005</p> <p>Research focuses on intergenerational solidarity, experiences of and roles in old age, and policy pertaining to older adults</p>

	<p>Has published over 60 peer-reviewed articles and chapters in books</p> <p>Has authored or co-authored five books including a major introductory textbook titled <i>Ageing Societies: A Comparative Introduction</i> (Open University Press, 2008)</p> <p>Has collaborated in the Irish Longitudinal Study of Ageing, with a focus on the social engagement, contributions, and care of older adults</p> <p>PhD in political science from Oxford University</p>
<p>Deborah Black (Science) (Australia)</p>	<p>Chair in Health Data Management, University of Sydney</p> <p>Previously Associate Professor in the School of Public Health and Community Medicine and the Presiding Member of the Faculty of Medicine, University of NSW</p> <p>Over 35 years' experience as an applied statistician</p> <p>Statistical reviewer for local and international journals</p> <p>Member of the NSW Population &amp; Health Services Research Ethics Committee, member of the review panel for the 45 and Up Study</p> <p>Recognised expert in the application and analysis of large health data sets to identify public health priorities and the impact of health interventions</p> <p>PhD from Central Queensland University</p>

## A Better Start

Name (role) (location)	Biographical details
Tricia Harris (Chair) (New Zealand)	Consultant on organisational strategy and development for clients including the Ministry of Research, Science, and Technology (MoRST), CRIs, universities, and the Consortium of International Research Centres (World Bank) Former Group Manager Science, AgResearch and Chief Science Advisor, Foundation for Research, Science and Technology Director of the Health Research Council for two terms Reviewer for UK Biotechnology and Biological Sciences Research Council and the Scottish Executive Environment and Rural Affairs Department 2005 – awarded ONZM for services to science PhD in nutrition from Cambridge University
Barry Poata Smith (Vision Mātauranga) (New Zealand)	Population Health Analyst, Planning and Funding, Lakes District Health Board; Chair Lakes DHB Research and Ethics Committee Contract analyst, Ministry of Health Research focus on health disparities, Māori ethical frameworks, and ethics review processes currently supported by the Marsden Fund and the Health Research Council (HRC) Member HRC College of Experts and Chair, HRC Ethics Committee Member, Middlemore Biobank Governance Committee and Podiatrist Board of New Zealand PhD in sociology from the University of Essex QSM
Stephen Smith (Governance) (Australia)	Dean of the Faculty of Medicine, Dentistry and Health Sciences at the University of Melbourne Previously: <ul style="list-style-type: none"> <li>• Vice President (Research) at Nanyang Technological University, Singapore</li> <li>• Founding Dean of the Lee Kong Chian School of Medicine</li> <li>• CEO, Imperial College Healthcare NHS Trust and Principal, Faculty of Medicine, Imperial College London</li> <li>• Head of the Department of Obstetrics and Gynaecology, University of Cambridge</li> </ul> Fellow of the Institute of Biology, Academy of Medical Sciences, and Royal Society of Art In 2009 ranked among the top 30 most powerful people in National Health Service management policy and practice in England DSc from the University of London
Peter Aggett (Outcomes) (United Kingdom)	Emeritus Chair and Past Founding Head of Lancashire School of Postgraduate Medicine and Health, and Honorary Professor at Lancaster University School of Medicine Previously Assistant Director and Head of Food and Health (Diet Nutrition and Health), UK Institute of Food Research, Norwich Clinical NHS contracts in paediatric gastroenterology and nutrition Past secretary and chair of the Committee on Nutrition of the European

	<p>Society of Paediatric Gastroenterology and Nutrition, chair of the Standing Committee on Nutrition of the Royal College of Paediatrics and Child Health, member of the Committee on Nutrition of the Royal College of Physicians</p> <p>Served on risk assessment panels on food safety, toxicity, dietary recommendations and novel foods and processes for UK, European Commission, European Food Safety Authority, WHO, IPCS, IAEA and FAO</p> <p>Has served as non-executive director of a NHS trust</p> <p>Qualified in medicine at Sheffield University - MSc, FRCP, FRCPC</p> <p>OBE for services to the Advisory Committee on Novel Foods and Processes</p>
<p>Ciaran O’Neill (Economic/Financial) (Ireland)</p>	<p>Professor of Health Technology, National University of Ireland, Galway</p> <p>Previously Chair of the Northern Ireland Health Economics Group and the founding member and Chair of the Health Economics Association of Ireland</p> <p>Previous positions at Queens University Belfast, the School of Economics and the School of Medicine, University of Nottingham, and the University of Ulster</p> <p>PhD in agricultural economics from Queens University</p>
<p>Aaron Doering (Science) (United States)</p>	<p>Associate Professor in Learning Technologies and Director of the Learning Technologies Media Lab, University of Minnesota (UMN)</p> <p>Bonnie Westby-Huebner Endowed Chair in Education and Technology, laureate of the prestigious humanitarian Tech Awards, and fellow for the UMN Institute on the Environment</p> <p>An adventure learning pioneer, has delivered online education programmes on sustainability and climate change to millions of students while traveling the world, from the circumpolar Arctic, to the Amazon, Africa, and Australia</p> <p>Gives hundreds of talks a year on online learning, transformational learning, design, and motivation</p> <p>Research focused on how online learning impacts the classroom experience, designing and developing technology-enhanced learning experiences, STEM learning, and K-12 technology integration</p> <p>Most recent books are <i>The New Landscape of Mobile Learning</i> and <i>Integrating Educational Technology into Teaching</i></p> <p>PhD in learning technologies from the University of Minnesota</p>
<p>Alan Hayes (Science) (Australia)</p>	<p>Director, Australian Institute of Family Studies</p> <p>Professorial appointment at Macquarie University</p> <p>Previous Chair of Early Childhood Studies and Head of Division/Dean at Macquarie University, and Visiting Professor at the Free University of Berlin and Pennsylvania State University</p> <p>Member of the Child Aware Approaches National Initiative Steering Group, the Advisory Board at the Children and Families Research Centre at Macquarie University (Chair), the Southern Cross University Centre for Children and Young People Advisory Board, the Victorian Government Department of Education and Early Childhood Development Expert Advisory Group, and the Work and Family Roundtable</p> <p>Has been chair, deputy chair, or a member of four Australian Government Ministerial Advisory Councils, including the Commonwealth Child Care Advisory Council, Australian Council for Children and Parenting, Stronger Families and Communities Strategy (now the Family Support Programme), and the Australian Families and Children Council</p>

	<p>Member of the Order of Australia  PhD in psychology, School of Behavioural Sciences, Macquarie University</p>
<p>Martin Nakata  (Science)  (Australia)</p>	<p>Director of Nura Gili (Indigenous Programmes Unit) at the University of New South Wales  Research work focuses on higher education curriculum areas, the academic preparation of indigenous students, and indigenous knowledge and library services  Has presented over twenty plenary and keynote addresses at national as well as international conferences in ten countries, and published various pieces on indigenous Australians and education in various academic journals and books in Australia and abroad  PhD in education from James Cook University, Queensland</p>
<p>Berthold Koletzko  (Science)  (Germany)</p>	<p>Professor of Paediatrics at the University of Munich and Head of Metabolic &amp; Nutritional Medicine, Children's Hospital, University of Munich Medical Centre  Coordinator of several international research consortia, including currently the EarlyNutrition Project  President, European Society Paediatric Gastroenterology, Hepatology &amp; Nutrition (ESPGHAN); Managing Director, Early Nutrition Academy; Coordinator, ESPEN Project on Disease Associated Malnutrition in Children; Chair, Committee Nutrition, German Society Paediatrics; Chair, Child Health Foundation; previously Member and Rapporteur, European Commission Scientific Committee on Food, Scientific Advisor, European Parliament Committee on Consumer Protection  Many international awards  Has published 708 journal articles, 184 book chapters, 29 books, Editor in Chief of <i>Annals Nutrition &amp; Metabolism</i></p>
<p>Susan Sawyer  (Science)  (Australia)</p>	<p>Chair of Adolescent Health, Department of Paediatrics, University of Melbourne  Director of the Centre for Adolescent Health at the Royal Children's Hospital  Over 250 publications, including 150 peer review papers  MD from the University of Melbourne</p>

## Healthier Lives

Name (role) (location)	Biographical details
<p>Andrew Kelly (Chair) (New Zealand)</p>	<p>Founded BioPacificVentures in 2005 (venture investment fund specialising in food, agriculture, health and wellness) and led \$100 million of investment into emerging life science companies across Australia and New Zealand</p> <p>Previous management roles in investment and product development at AgResearch</p> <p>Previous director of AgResearch’s Invermay research centre, the Institute for Sustainable Agriculture in Australia, and the Pastoral &amp; Veterinary Institute in Australia</p> <p>35-year career across spectrum from discovery science to commercialisation</p> <p>Current director of five companies, previous director or chair of an additional seven companies, including NZX-listed</p> <p>28 peer-reviewed scientific publications, post-graduate training in management</p> <p>PhD in veterinary epidemiology from the University of Melbourne</p>
<p>Barry Poata Smith (Vision Mātauranga) (New Zealand)</p>	<p>Population Health Analyst, Planning and Funding, Lakes District Health Board; Chair Lakes DHB Research and Ethics Committee</p> <p>Contract analyst, Ministry of Health</p> <p>Research focus on health disparities, Māori ethical frameworks, and ethics review processes currently supported by the Marsden Fund and the Health Research Council (HRC)</p> <p>Member HRC College of Experts and Chair, HRC Ethics Committee</p> <p>Member, Middlemore Biobank Governance Committee and Podiatrist Board of New Zealand</p> <p>PhD in sociology from the University of Essex</p> <p>QSM</p>
<p>Jens Mueller (Governance) (New Zealand)</p>	<p>Associate Professor, Entrepreneurship and Strategy, University of Waikato Management School</p> <p>Over 25 years’ experience as CEO and chair of global high-technology firms, including director of PHARMAC</p> <p>Governance reviewer for the Foundation for Research, Science, and Technology</p> <p>Author of several governance, leadership and strategy books and governance advisor to several businesses and the Ministry of Health</p>
<p>Judith Swain (Outcomes/Science) (Singapore)</p>	<p>Executive Director of the Singapore Institute for Clinical Sciences</p> <p>Lien Chow Professor of Medicine at the National University of Singapore</p> <p>Previous Dean for Translational Medicine at the University of California, San Diego</p> <p>Previous Chair of the Department of Medicine at Stanford University</p> <p>MD from the University of California, San Diego</p>
<p>Ciaran O’Neill (Economic/Financial) (Ireland)</p>	<p>Professor of Health Technology, National University of Ireland, Galway</p> <p>Previously Chair of the Northern Ireland Health Economics Group and the founding member and Chair of the Health Economics Association of Ireland</p>

	<p>Previous positions at Queens University Belfast, the School of Economics and the School of Medicine, University of Nottingham, and the University of Ulster</p> <p>PhD in agricultural economics from Queens University</p>
<p>Stephen Colagiuri (Science) (Australia)</p>	<p>Professor of Metabolic Health, University of Sydney</p> <p>Research interests include development and implementation of evidence-based guidelines, diabetes screening and prevention, and economic aspects of diabetes and obesity</p> <p>Past President of the Australian Diabetes Society, member of the Diabetes Expert Advisory Committee of the Commonwealth Department of Health and Aged Care, chair of the International Diabetes Federation Global Guideline Working Group, and advisor on diabetes to the World Health Organisation</p> <p>Over 200 publications in scientific journals and books</p> <p>M.B. B.S. Honours Class II from the University of Sydney</p> <p>FRACP, Royal Australasian College of Physicians</p>
<p>Robert Sanson-Fisher (Science) (Australia)</p>	<p>Director, Health Behaviour Research Group, University of Newcastle</p> <p>Previously Dean of the Faculty of Medicine</p> <p>Played a significant role in establishing the Behavioural Science Group in Relation to Medicine, University of Newcastle</p> <p>Initiator of the Hunter Centre for Health Advancement and Director of the New South Wales Cancer Education Research Programme</p> <p>Inaugural director of the National Cancer Control Institute</p> <p>Has published over 400 research papers and 19 chapters in books</p> <p>PhD in psychiatry from the University of Western Australia</p>
<p>Sandra Jones (Science) (Australia)</p>	<p>Professor in the Faculty of Social Sciences, University of Wollongong</p> <p>Director of the Centre for Health Initiatives</p> <p>Previously Associate Dean (Research) in the Faculty of Health &amp; Behavioural Sciences</p> <p>Internationally recognised expert in the area of social marketing, particularly in relation to chronic disease prevention and healthy lifestyles</p> <p>Has published more than 130 referred papers, six book chapters, and numerous policy-related monographs and reports</p> <p>Member of numerous policy and advisory committees, including those of cancer organisations in Australia and overseas</p> <p>PhD in social marketing from the University of Western Australia</p>
<p>Trevor Lockett (Science) (Australia)</p>	<p>Theme Leader, Colorectal Cancer, CSIRO</p> <p>Research scientist at CSIRO since 1982</p> <p>Areas of expertise in biotechnology, biochemistry, and molecular biology</p> <p>PhD in biochemistry from the University of Adelaide</p>



## New Zealand's Biological Heritage

Name (role) (location)	Biographical details
Gillian Wratt (Chair) (New Zealand)	Board member, New Zealand Environmental Protection Authority Previous roles: <ul style="list-style-type: none"> <li>• Chief Executive, Cawthron Institute</li> <li>• FTA environmental negotiator, Ministry for the Environment</li> <li>• Director, New Zealand Antarctic Programme and Chief Executive, Antarctica New Zealand 1998-2001</li> <li>• Chair, Council of Managers of National Antarctic Programmes</li> <li>• Vice Chair, Antarctic Treaty Committee on Environmental Protection</li> </ul> MBA from the University of Sydney
Charlotte Severne (Vision Mātauranga) (New Zealand)	Interim General Manager – Māori Economy, Callaghan Innovation Previously Chief Scientist at NIWA – supported growing Māori research capacity and transforming science into action for Māori communities and business Extensive experience in business and research strategy development PhD in geology from the University of Auckland
Roger Morris (Governance) (New Zealand)	Consultant mainly for the World Bank and other governments Previous Member of the Marsden Fund Council and Chair of the Ecology, Evolution and Behaviour Panel Over 45 years' experience as a research scientist Has led research teams in Australia, United States, and New Zealand - extensive management experience in universities and government
Kevin Marshall (Outcomes) (New Zealand)	Chemical engineer/biotechnologist with 50 years' experience in research and technology in the primary industries Board member of the Australian Plant Biosecurity Cooperative Research Centre Board member of Seafood Innovations Ltd and Bioprocessing Alliance, member of the Foundation for Arable Research's Strategic Research Committee Previous member of the board of Plant and Food Research, board of Wool Equities, Zespri Innovation Advisory Board, and Synlait's Innovation Advisory Team Member of the Investment Advisory Panel of the Primary Growth Partnership, and science reviewer for MBIE Working career in the dairy industry - Managing Director of ViaLactia Biosciences, Group Director R&D and member of the New Zealand Dairy Board Group Leadership Team, Chief Executive of the New Zealand Dairy Research Institute (now Fonterra Research Centre) PhD in biotechnology from Massey University
Stuart Whitten (Economic/Financial) (Australia)	Environmental and institutional economist, Group Leader CSIRO Ecosystem Sciences economics capacity Environmental and institutional economist with CSIRO Ecosystem Sciences Has worked on the design and delivery of a wide range of markets for ecosystem services, economics of biodiversity and sustainable agriculture Recent projects include a cost of practice change to improve water quality

	<p>impacting on the Great Barrier Reef, evaluation and redesign of the metric of the Australian Government's Environmental Stewardship Programme, pilot implementation of a conservation tender paying for on-ground results, and two major reports helping shape a national wildlife corridor plan for Australia</p> <p>Current research focus on understanding institutions and policy needs to support landscape scale biodiversity and on land management and Great Barrier Reef water quality</p> <p>Has coordinated two major symposia: 'New Horizons in Market-Based Instruments' and 'Market-based Tools for Environmental Management'</p> <p>PhD in environmental economics from the University of NSW</p>
<p>Gary Fitt (Science) (Australia)</p>	<p>Director, Biosecurity Flagship, CSIRO Formerly Deputy Chief CSIRO Entomology and Deputy Chief CSIRO Ecosystem Sciences</p> <p>Adjunct Professor, School of Rural Science and Ecosystem Management, University of New England Adjunct Professor, Faculty of Agriculture, Food and Natural Resources, University of Sydney</p> <p>Elected Fellow, Academy of Technological Sciences and Engineering Member, Royal Entomological Society of London, Australian Entomological Society, British Ecological Society</p> <p>PhD in insect ecology from the University of Sydney</p>
<p>Clive Jones (Science) (United States)</p>	<p>Ecologist, Senior Scientist, Cary Institute of Ecosystem Studies Research focus on ecosystem engineering by species, and the utilisation of ecological processes for sustainable environmental management, ecological engineering, focusing on using ecosystem engineering species</p> <p>Elected Fellow of the American Association for the Advancement of Science, former John Simon Guggenheim Memorial Fellow, Chaire Internationale de Recherche Blaise Pascal, and Royal Netherlands Academy for Arts and Sciences Visiting Professor</p> <p>Has published over 195 papers including five books</p> <p>DPhil in biology from the University of York</p>
<p>Andrew Lowe (Science) (Australia)</p>	<p>Chair in Plant Conservation Biology and Director of the Australian Centre for Evolutionary Biology and Biodiversity, University of Adelaide Head of Science, State Herbarium for South Australia and Science Resource Centre, South Australian Department of Environment and Natural Resources</p> <p>Main research focus in plant ecological and evolutionary genetics</p> <p>PhD in plant evolutionary genetics from St Andrews University</p>
<p>Dan Metcalfe (Science) (Australia)</p>	<p>Research Programme Leader, EcoSciences Precinct, CSIRO Expertise in plant ecology and biogeography, plant ecophysiology, invasion biology, landscape and community ecology</p> <p>Member of Scientists in Schools national programme (fosters long-term partnerships between teachers and scientists)</p> <p>Adjunct Senior Lecturer, James Cook University, Queensland Previous lecturer in ecology at the University of Brighton, UK, and honorary research associate, School of Biological Sciences, Monash University</p>

	PhD in plant ecology and ecophysiology, University of Cambridge
Allan Watt (Science) (United Kingdom)	<p>Section Head, Biodiversity and Ecosystem Science, Centre for Ecology &amp; Hydrology, Edinburgh</p> <p>Research interests include developing methods for quantifying and monitoring biodiversity and ecosystem services, impact of land use change, climate change and other drivers of biodiversity loss, identifying and managing conflicts between human activities and the conservation of biodiversity, and the biodiversity science-policy interface</p> <p>Member of Steering Committee of the European Platform for Biodiversity Research Strategy</p> <p>PhD in ecology from the University of East Anglia</p>

## Our Land and Water

Name (role) (location)	Biographical details
Gillian Wratt (Chair) (New Zealand)	Board member, New Zealand Environmental Protection Authority Previous roles: <ul style="list-style-type: none"> <li>• Chief Executive, Cawthron Institute</li> <li>• FTA environmental negotiator, Ministry for the Environment</li> <li>• Director, New Zealand Antarctic Programme and Chief Executive, Antarctica New Zealand 1998-2001</li> <li>• Chair, Council of Managers of National Antarctic Programmes</li> <li>• Vice Chair, Antarctic Treaty Committee on Environmental Protection</li> </ul> MBA from the University of Sydney
Charlotte Severne (Vision Mātauranga) (New Zealand)	Vision Mātauranga expert on other National Science Challenges independent assessment panels Interim General Manager – Māori Economy, Callaghan Innovation Previously Chief Scientist at NIWA – supported growing Māori research capacity and transforming science into action for Māori communities and business Extensive experience in business and research strategy development PhD in geology from the University of Auckland
Michael Crawford (Governance) (Australia)	Over 23 years' experience with the Victorian Government's Department of Environment and Primary Industries in research, science management, and executive leadership in areas related to farming systems and land and water management Currently Research Director - Agriculture Production; manages a budget of A\$20 million and 110 staff with expertise in animal and plant production systems, chemistry, and soil and water sciences Has also managed the Department's partnership in the eWater Cooperative Research Centre (CRC) and CRC for Irrigation Futures Has represented Victoria on working groups for national water use in agriculture and national soil strategies PhD in soil science from the University of Adelaide Executive Masters Degree in Public Administration from the University of Melbourne and the Australia New Zealand School of Government
James Buwalda (Outcomes) (New Zealand)	Director, Innovation Strategy Ltd (consulting on strategy and innovation issues and leading/facilitating research and innovation collaborations) Previously: <ul style="list-style-type: none"> <li>• Acting Director of Bioprotection Research Centre</li> <li>• Chief Executive of Department of Labour and Ministry of Research, Science and Technology</li> <li>• senior manager and science leader at HortResearch</li> </ul> PhD in plant physiology from the University of London
Frank Scrimgeour (Economic/Financial) (New Zealand)	Professor of Economics, Waikato Management School, University of Waikato Life Member, New Zealand Association of Economists, Fellow,

	<p>Modelling and Simulation Society of Australia and New Zealand  Previous President New Zealand Association of Economists, President,  New Zealand Agricultural &amp; Resource Economics Society, and Editor,  New Zealand Economic Papers (1998-2001)  Has served on review panels for research grants (eg Foundation for  Research, Science, and Technology and Marsden Fund) subjects  (economics), departments, and faculties  Has published 40 international refereed journal articles  Globally recognised for his ability to navigate the interface between  science, economics, and commerce in a professional and constructive  manner  PhD from the University of Hawaii</p>
<p>Joseph Jacobs  (Science)  (Australia)</p>	<p>Principal Scientist - Dairy, Department of Environment and Primary  Industries, Victoria, Australia  Has worked at research institutes in the UK and Australia with a primary  focus on improving milk production and profitability on dairy farms  Focus on sustainable development of a more resilient feedbase and  associated feeding systems and adaptation of dairy systems to a  changing environment  Has published over 60 journal papers  PhD in ruminant nutrition from Reading University</p>
<p>Damian Barrett  (Science)  (Australia)</p>	<p>Senior Principal Research Scientist, Land and Water, CSIRO  Leads Water in the Resources Sector stream in the Water for a Healthy  Country Flagship  Adjunct Professor with the Centre for Water in the Minerals Industry,  Sustainable Minerals Institute, University of Queensland  Author or co-author of more than 70 peer-reviewed journal papers and  book chapters, 29 client and technical reports, over 25 invited  conference presentations and more than 55 other conference and  workshop presentations  PhD from the Australian National University</p>
<p>Ermias Kebreab  (Science)  (United States)</p>	<p>Professor of Animal Science, Sesnon Endowed Chair in Sustainable  Animal Agriculture, and Deputy Director of the Agricultural  Sustainability Institute at the University of California Davis  Formerly served as Canada Research Chair in Sustainable Agricultural  Systems Modelling  Has authored more than 130 refereed papers and edited five books  PhD in integrative biology from the University of Reading</p>
<p>Brad Ridoutt  (Science)  (Australia)</p>	<p>Principal Research Scientist, CSIRO Animal, Food and Health Sciences  Research interest in the sustainability of agricultural and food systems  from a lifecycle perspective  Engaged in a range of international activities including ISO and the  United Nations Environment Programme/Society of Environmental  Toxicology and Chemistry Life Cycle Initiative  Former senior manager at Scion  PhD in plant physiology from the University of Melbourne</p>

## Sustainable Seas

Name (role) (location)	Biographical details
Gillian Wratt (Chair) (New Zealand)	Board member, New Zealand Environmental Protection Authority Previous roles: <ul style="list-style-type: none"> <li>• Chief Executive, Cawthron Institute</li> <li>• FTA environmental negotiator, Ministry for the Environment</li> <li>• Director, New Zealand Antarctic Programme and Chief Executive Antarctica New Zealand 1998-2001</li> <li>• Chair, Council of Managers of National Antarctic Programmes</li> <li>• Vice Chair, Antarctic Treaty Committee on Environmental Protection</li> </ul> MBA from the University of Sydney
Charlotte Severne (Vision Mātauranga) (New Zealand)	Interim General Manager – Māori Economy, Callaghan Innovation Previously Chief Scientist at NIWA – supported growing Māori research capacity and transforming science into action for Māori communities and business Extensive experience in business and research strategy development PhD in geology from the University of Auckland
Jens Mueller (Governance) (New Zealand)	Associate Professor, Entrepreneurship and Strategy, University of Waikato Management School Over 25 years' experience as CEO and chair of global high-technology firms, including director of PHARMAC Governance reviewer for the Foundation for Research, Science, and Technology Author of several governance, leadership and strategy books and governance advisor to several businesses and the Ministry of Health
Howard Roe (Outcomes) (United Kingdom)	Emeritus Professor, University of Southampton and former Director, Southampton Oceanography Centre Founder/past Chair of the Partnership for Observing the Global Ocean Non-executive member of the UK Marine Science Coordination Committee Board and Executive Committee member, Sargasso Sea Alliance (Chair of Scientific Advisory Committee) and director in charge of science Chair, Institute for Basic Science Review Panel (Korea) Has authored more than 100 papers and books DSc from University College London Personal Chair, University of Southampton
Caroline Saunders (Economic/Financial) (New Zealand)	Professor, Director of Agribusiness and Economic Research Unit, Lincoln University 30 years' research expertise in the United Kingdom and New Zealand Has undertaken research for a wide range of private and public bodies in New Zealand and overseas, including the EU Commission, DEFRA, FAO, OECD, MAF, MFAT, Treasury, MfE, MBIE, NZTE, Fonterra, meat Industry and various other sector groups Awarded Economist of the Year 2007, New Zealand Order of Merit 2009 Over 300 publications PhD in agricultural economics from the University of Newcastle (UK)

<p>Mike Coffin (Science) (Australia)</p>	<p>Executive Director of the Institute for Marine and Antarctic Studies at the University of Tasmania Research expertise encompasses interactions between the oceanic environment and the solid Earth Has worked at Geoscience Australia, University of Texas at Austin, University of Tokyo, Japan Agency for Marine-Earth Science and Technology, University of Southampton and UK National Oceanography Centre Inaugural chair of the Science Planning Committee of the Integrated Ocean Drilling Programme (IODP), the largest international programme in the earth and ocean sciences Has led or participated in 29 blue-water research expeditions at sea, focusing mainly in the Southern, Pacific, and Indian oceans Chaired the First Triennium (2003-2006) Review of the IODP, and has served as an expert assessor for reviews of the Alfred Wegener Institute (2011) and GEOMAR (2013) PhD from Columbia University</p>
<p>Jae Hak Lee (Science) (Korea)</p>	<p>Dean, Ocean Science and Technology School, Korea Institute of Ocean Science and Technology Professor, University of Science and Technology (Korea) Previous visiting appointments to Oregon State University, Southampton Oceanography Centre, Arizona State University, Kyushu University, Université Pierre et Marie Curie (Paris), Muséum National d'Histoire Naturelle (France) PhD in physical oceanography from Yale University</p>
<p>Chris Carter (Science) (Australia)</p>	<p>Professor of Aquaculture (2004-2009), Professor of Aquaculture Nutrition (2009-present), University of Tasmania Programme Leader Aquaculture (Tasmanian Aquaculture &amp; Fisheries Institute and Institute for Marine and Antarctic Studies (IMAS) for 12 years Director, Fisheries, Aquaculture and Coasts Centre (IMAS) (2014-present) Deputy Director, National Centre for Marine Conservation and Resource Sustainability, University of Tasmania Head, School of Aquaculture (2004-2008), University of Tasmania Science expertise in physiology and nutrition of aquatic ectotherms, animal feeds and ingredient development, aquaculture, climate change effects, PhD in zoology (fish bioenergetics) from Kings College, University of London</p>
<p>Stewart Frusher (Science) (Australia)</p>	<p>Leads the Estuaries and Coasts Programme at the Institute for Marine and Antarctic Studies, University of Tasmania Member of the US Centre of Independent Experts for reviewing fisheries assessments and review international funding applications Has developed strategic research plans for Australian and Indian collaborations and a member of various international research programmes that address coastal vulnerability and climate change impacts on marine production systems PhD from the University of Tasmania</p>
<p>Patrick Christie (Science) (United States)</p>	<p>Professor, School of Marine Affairs and Henry M. Jackson School of International Studies, University of Washington Has led various international comparative, socio-ecological research projects to inform the practice of marine resource management Particular interest in the human dimensions of marine conservation</p>

	<p>employing marine protected areas, ecosystem-based management, and conservation fishing technologies</p> <p>Advisor to the UN Food and Agricultural Organisation, World Bank, USAID, and various governmental and non-governmental environmental organisations</p> <p>Previous external reviewer for the National Oceanic and Atmospheric Administration</p> <p>PhD in environmental sociology and policy, School of Natural Resources and Environment, University of Michigan</p>
--	--



## Science for Technological Innovation

Name (role) (location)	Biographical details
James Buwalda (Chair) (New Zealand)	<p>Director, Innovation Strategy Ltd (consulting on strategy and innovation issues and leading/facilitating research and innovation collaborations)</p> <p>Previously:</p> <ul style="list-style-type: none"> <li>• Acting Director of Bioprotection Research Centre</li> <li>• Chief Executive of Department of Labour and Ministry of Research, Science and Technology</li> <li>• senior manager and science leader at HortResearch</li> </ul> <p>PhD in plant physiology from the University of London</p>
Colin Knox (Vision Mātauranga) (New Zealand)	<p>Senior Lecturer, Te Ara Poutama Programmes, and Leader of the Centre for Māori Innovation and Development, AUT University</p> <p>Director of several private companies</p> <p>Trustee, Raukawa Ki Te Tonga Trust</p> <p>MPA from Harvard University, PhD in Māori Studies from Massey University</p>
Claus Hviid Christensen (Governance) (Denmark)	<p>Director, Head of Group R&amp;D at DONG Energy, Denmark</p> <p>Proven track record in research and development, business development and innovation in start-ups, SMEs and large enterprises</p> <p>Academic career (as professor) including director for national centre of excellence in sustainability and chemical technology</p> <p>Advisor on research and innovation to several national ministries and EU.</p> <p>Member of several boards and committees</p> <p>R&amp;D policy advisor to the Danish Government</p> <p>MSc in chemistry from the University of Copenhagen</p>
Brett Cornwell (Outcomes) (United States)	<p>Associate Vice Chancellor for Commercialisation for Texas A&amp;M System Technology Commercialisation - responsible for licensing and IP management, new ventures, and industry alliances activities</p> <p>On adjunct graduate faculty at Texas A&amp;M University teaching courses in technology commercialisation at the Mays Business School</p> <p>Faculty member at the IC2 Institute at the University of Texas at Austin and Adjunct Lecturer in the McCombs School at the University of Texas at Austin as an instructor in the Masters in Science and Technology Commercialisation degree programme</p> <p>Has led a number of international technology commercialisation benchmarking and training projects including the University of Otago</p> <p>MBA from Texas A&amp;M University</p>
Giuliana Battisti (Economic/Financial) (United Kingdom)	<p>Professor of the Economics of Innovation, University of Warwick</p> <p>Main research interests include applied economics and econometrics, generation of new ideas (R&amp;D and patents), and diffusion of innovations</p> <p>Co-chair of the British Network of Industrial Economists, chair of the Business and Industrial Section of the Royal Statistical Society, fellow of the Advanced Institute of Management and member of Advisory Group on Innovation Surveys of the Office for National Statistics and the Business Innovation and Skills department</p>

	PhD in industrial economics from the University of Warwick
Karen Reynolds (Science) (Australia)	<p>Matthew Flinders Distinguished Professor of Biomedical Engineering, Flinders University</p> <p>Director, Medical Device Research Institute</p> <p>Director, Medical Device Partnering Programme</p> <p>South Australian Scientist of the Year, 2012</p> <p>Australian Professional Engineer of the Year, 2010</p> <p>Named in Top 100 Most Influential Engineers in Australia, 2012 and 2013</p> <p>Fellow of the Academy of Technological Sciences &amp; Engineering, 2011</p> <p>Research interests include:</p> <ul style="list-style-type: none"> <li>• medical devices</li> <li>• simulation for medical training</li> <li>• bone imaging, modelling and instrumentation</li> </ul> <p>PhD in biomedical engineering from the University of Leicester</p>
Peter Majewski (Science) (Australia)	<p>Head of School of Engineering, University of South Australia</p> <p>Previously Senior Scientist and Deputy Department Head, Max-Planck-Institute for Metals Research, Germany</p> <p>Areas of expertise: materials engineering, materials science, materials manufacturing, nanotechnology, renewable energy systems, water treatment, surface engineering</p> <p>Since 2001 regular reviewer of Australian Research Council schemes and grants</p> <p>PhD in mineralogy from the University of Hannover</p>
Philip Morrow (Science) (United Kingdom)	<p>Professor of Computer Vision, School of Computing and Information Engineering, University of Ulster</p> <p>Full member of the University of Ulster's Computer Science Research Institute</p> <p>Over thirty years' experience in research teaching in computing</p> <p>Interests in developing/implementing computing research, solutions, technologies for application areas such as healthcare/medical technology, forest/plant disease detection, activity recognition for the elderly, and rehabilitation</p> <p>Member of the Institute of Electrical and Electronic Engineers</p> <p>Previously reviewer for the Dutch National Science Foundation (NWO), UK Engineering and Physical Sciences Research Council, and UK Biotechnology and Biological Sciences Research Council</p> <p>PhD in software development tools for image processing from Queen's University Belfast</p>
Fedro Zazueta (Science) (United States)	<p>Professor, Agricultural and Biological Engineering Department, and Director, Office of Academic Technology, University of Florida</p> <p>Member of the American Society of Agricultural &amp; Biological Engineers and International Commission of Agricultural Engineering (CIGR)</p> <p>Recipient of Outstanding Leadership Award, American Society of Agricultural Engineers (ASAE)</p> <p>PhD in agricultural engineering from Colorado State University</p>
Paulo Antonio de Souza	<p>One of CSIRO's Office of the Chief Executive Science Leaders</p> <p>Previously Director of CSIRO's transformational capability platform in</p>

<p>(Science) (Australia)</p>	<p>sensors and sensor networks and Research Director for the ICT Laboratory in Tasmania Collaborator scientist in NASA's Mars Exploration Programme and co-author of the series of papers identified as the Breakthrough of the Year 2004 by <i>Science</i> magazine Over 20 years' experience in industrial research in Europe, Australia, and the Americas Has over 200 peer-reviewed publications PhD in natural sciences from Johannes Gutenberg University, Germany</p>
----------------------------------	--