



ANNUAL REPORT 2022

Incorporating business plan for FY2022–23

ACOLA is an independent, not-for-profit organisation that supports evidence-based interdisciplinary advice.

Acknowledgement of Country

ACOLA acknowledges all Aboriginal and Torres Strait Islander Traditional Custodians of Country and recognises their continuing connection to land, sea, culture and community. We pay our respect to the Elders both past and present.

We acknowledge Aboriginal and Torres Strait Islanders as Australia's first scientists and researchers.

In particular, we acknowledge the people and lands on which our staff work – the Ngunnawal lands in Canberra, the Bunurong Boon Wurrung and Wurundjeri Woi Wurrung peoples of the Eastern Kulin Nation in Melbourne, and the Whadjuk people, part of the larger Nyoongar Aboriginal nation in Perth.

Australian Council of Learned Academies Annual Report 2021-22

This document is a true and accurate account of the activities of the Australian Council of Learned Academies for the financial year 2021–22, in accordance with the reporting requirements of its Constitution, the ACNC, and for the conditions of grants made by the Australian Government under the Higher Education Support Act 2003 (Cth).

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Who we are: our vision, mission, values and objectives

Purpose

Advising Australia – advancing discussions on complex issues through trusted, independent, and interdisciplinary evidence-based advice.

Vision



ACOLA aims to be a key source of high-quality, robust, and independent interdisciplinary advice for Australia's decision-makers and the public on complex challenges and issues.

Objectives

Policy	To deliver evidence-informed interdisciplinary advice to support and guide policy decision-making processes
	 To engage and contribute interdisciplinary perspectives to public debate and awareness-raising on emerging national and regional issues
	 To promote an appreciation within the community and among decision-makers of the value that interdisciplinary research and scholarship provides as an evidence-base for public policy
Research	Engaging disciplinary experts to advance research and scholarship
	Promoting the application of interdisciplinary expert knowledge
	Declaring and disseminating interdisciplinary expert knowledge
	Advocating standards of research and scholarship to encourage excellence
Development	 To collaborate with the Learned Academies, professional institutes, other Learned societies and educational institutions in matters of mutual interests; and
	 To establish and maintain cooperative relations between the Company and overseas bodies having similar objectives in the disciplines represented by the Company's members

Mission

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To provide a forum that brings great minds, broad perspectives, and knowledge together to help solve complex societal issues for the benefit of Australia's social, cultural, economic and environmental wellbeing.

Values

Integrity, rigor, transparency, inclusiveness, creativity, collaboration and interdisciplinarit.

Strategic Statement

The scale and complexity of the challenges facing communities across the world, especially with COVID-19, calls for fresh, robust and authoritative thinking, and new approaches if our legacy is to secure a better world for future generations, economically, socially and environmentally. ACOLA's aim is to advance discussions on complex issues through trusted, independent, and interdisciplinary evidence-based advice to solve real world problems. In doing so, we are unique in the Australian landscape – we seek to place research and trusted experts at the core of policy making.

In an era of misinformation and multiplicity of views, the need for ACOLA and the Learned Academies is never more critical, to raise research-based policy advice above opinion and institutional, discipline and political biases.

Through our members, Australia's five Learned Academies, ACOLA brings together over 3,500 of Australia's leading academic and industry experts spanning science, the humanities, social science, health and medical sciences, and technology and engineering. This powerful resource allows us to deliver leading, comprehensive and interdisciplinary evidence-based advice to shape public policy, inspire innovation and deliver solutions to complex issues. ACOLA's interdisciplinary approach and access to the nation's top researchers across all fields sets it apart from other research and policy organisations in this country. It is gounded in the recognition that complex challenges are mostly effectively addressed by bringing together specialist expertise from across domains, which are more than 'the sum of the parts'. This ensures that policies, technologies and considerations are practical and implementable from the lab to the real world. It also allows deeper understandings of real or potential social, economic, cultural and environmental unintended consequences and barriers.

With research programs including the Securing Australia's Future series and more recently the Horizon Scanning series, ACOLA has nearly seven decades of demonstrated experience as a trusted and influential source of expert advice for governments, industry and the public. Over recent years ACOLA has also become a trusted partner for Commonwealth agencies and various Parliaments for: 1) expert briefings on topics, and 2) convening and running workshops on policy issues and reviews. These has solidified ACOLA's role as a key source of high-quality, robust, and independent interdisciplinary advice for Australia's decision-makers.



Chair's report

As for many organisations, 2021 and 2022 were challenging for ACOLA. The coronavirus pandemic continued to impact the focus, availability, and resources of governments with whom who we largely work, as well impacting our own staff and experts.

Despite those challenges, I am proud that work to expand the awareness of ACOLA and to reshape our role has played dividends and we end the year in a very positive situation, both in terms of impact and finances. It is thus with pleasure that I present ACOLA's Annual Report 2021–22.

Over the 12 months, ACOLA has continued to adapt and respond to the needs of the changing policy landscape. ACOLA has demonstrated its unique value to Governments and Parliaments, and has amplified the value of Australia's Learned Academies, individually and collectively, as their convenor for interdisciplinary activities. This has led to new projects, stronger relationships, greater awareness and increased impact in policy discussions. This has come from a concerted effort from ACOLA, and also strong demand from a variety of stakeholders.

In late 2021, it was with great respect that the Academies, led by ACOLA, released a response to the Uluru Statement from the Heart. As a research sector, we also have work to improve how we recognise and engage with Indigenous Australians. This builds upon our relationship with the Australian Institute of Aboriginal and Torres Strait Islander Studies (AIATSIS), which was formalised in 2020 21. Since then, AIATSIS and its members are invited to be involved in all ACOLA projects, and we are exploring opportunities to further grow our joint activities.

Notably, ACOLA had its busiest, most successful and diverse 12 months again, building on recent years of renewed strategic focus and engagement activities.

This included:

- progressing four sponsored projects
- coordinated Learned Academy engagement and response to a number of activities, such as:
 - COP26 (Conference of the Parties 26)
 - international inquiries, such as the UK and French reviews of government science-advice processes, and
 - the invasion of Ukraine
- running numerous briefings and workshops for state, territory and federal governments on a range of topics: e.g. critical technologies, the National Interest Test, agtech and regulation
- delivering six Parliamentary briefing seminars
- refining our research priorities for engagement with the new Federal Government, and
- supporting the Australian Government to promote the 2021 Prime Minister's Awards for Science.

ACOLA appreciates and recognises that many of its successes result from the special contributions and support of Australia's Chief Scientist; Member Academies and their Fellows; the Department of Education; and our project sponsors throughout this year.

Finally, I would like to thank the ACOLA management team and research and policy staff, led by Ryan Winn, for their tireless commitment and professionalism throughout this challenging year, and without whom ACOLA's members could not deliver our high-quality advice.

for and Add

Professor Richard Holden FASSA FES Chair, Board of Directors ACOLA

ACOLA's members

Bridging the disciplines for informed public policy

Australia's five Learned Academies are members of ACOLA. Each academy holds this formal recognition through identification under the Australian Government's Higher Education Support Act (HESA).

ACOLA partners with other appropriate organisations for specific projects and activities.

Australia's Learned Academies



Australian Academy of Science







Australian Academy *of* Health and Medical Sciences

Partners





Charity status

ACOLA is an established and approved Australian Research Institute by the Australian Government; is a registered charity with the Australian Charities and Not-for-profits Commission (ACNC); and holds Deductible Gift Recipient status.



Governance Structure



The ACOLA Team

Management



Mr Ryan Winn Chief Executive Officer

Research and support staff

Judita Hudson Research and Policy Officer (Energy Transition)

Ellen Wong

Research and Policy Officer (Energy Transition and NT Research Opportunities)

Fern Beavis

Senior Research and Policy Officer (Energy Transition)

Sophie Dowling

Senior Research and Policy Officer (NT Research Opportunities)

Ella Relf

Senior Research and Policy Officer (NT Research Opportunities and the ACOLA's response to the Uluru Statement from the Heart)



Dr Lauren Palmer Director, Policy and Projects

Diana Melham Company Secretary (from Nov 2021)

Tim Wotton Senior Research and Policy Officer (Disability Responsiveness)

Jade McEwan

Senior Research and Policy Officer (Disability Responsiveness)

Operational supports

Lorraine Rae

(Bookkeeping and business support)

Note: Fiona Clothier was Company Secretary and Business Manager until Nov 2021.

During 2021–22, we also acknowledge project-specific research and writing expertise and support provided by: Dr Scott Avery, Dr Laura Davy, Dr Reza Fazeli, Professor Tina Soliman Hunter, Dr Damian Mellifont, Dr Madeline Taylor, Sam Vilkins and Dr Vlado Vivoda.

How We Work

ACOLA is unique in Australia, providing trusted, independent, interdisciplinary, and publicly available research-based advice to governments.

Importantly, ACOLA can access, assess and synthesise world-class academic and interdisciplinary research thinking into peer-reviewed advice for policymakers and the wider public on some of Australia's biggest future challenges.

We maintain a robust framework to ensure our analysis and support enables new and timely policy insights. Broadly our activities seek to; expose, synthesise and translate what is known and not known; present an evidence-informed vision of future states and directions; and, present analysis on the various variables, considerations and trade-offs for policy options. We rarely provide specific recommendations, as our goal is to lift policymakers' quality, capability and capacity to bring research and robust evidence to the centre of their thinking and decisions – not to advocate a position or drive for specific policy settings.



Our activities span:





To ensure findings are evidence-based, balanced, comprehensive and independent, a peer-review process is undertaken. Reviewers are Academy Fellows and appropriate industry and government experts. ACOLA works with the EWG and ACOLA Board to consider feedback from peer reviewers and project sponsors to finalise the report. It then undergoes design, final copy-editing, printing etc. Before release, ACOLA works with project sponsors to provide briefings to key Ministers, senior departmental executives, decision-makers and other key stakeholders on the report, as appropriate. A key value proposition for project sponsors is post-release activities. As reports are undertaken in partnership, ACOLA works with sponsors to explore appropriate opportunities to promulgate reports with key stakeholders and the wider public, e.g. through briefings, social and traditional media and panel sessions.

Year in Review

Published Reports

Australian Energy Transition Research Plan – Three New Reports

In late 2020, with funding support from ARENA, CSIRO, and NERA, embarked on a three-year project to understand and support the research agenda that will be critical to underpin Australia's energy transition to net-zero emissions by 2050, if not earlier.

It is widely accepted that a 'business as usual' trajectory is no longer feasible given our current reliance on the consumption and export of fossil fuels and the cost of inaction on our economy, communities, businesses and environment continues to compound. The global momentum towards net zero emissions is also rapidly accelerating, impacting global trade in commodities, technology and services. ACOLA's work recognises that Australia must be efficient, responsive and forward-looking if our transition to net zero emissions is to succeed, with as minimal disruption to our economy and society as possible. This also applies to the research sector, which must respond with appropriate research and translation on a time scale reflective of this critical need. 2021–22 focused on going deeper into findings from Report 1, the Research Plan, released in June 2021.



Report 3–5: Research Theme Papers

Released: 18 May 2022

The three thematic briefing reports expand on the research priorities outlined in ACOLA's Australian Energy Transition Research Plan (Report One). These reports identify critical research gaps and propose a series of underpinning actionable research questions. They recognise there is a clear research direction for insights from human and social dimensions to sit alongside advancements in the engineering and physical sciences, with a greater need for research on community attitudes and concerns about the transition's benefits.

ACOLA encourages researchers across different sectors, including academia, industry and government to answer the questions and calls on funders to consider directing funding towards this research.



The Energy System Dynamics Research Briefing Paper (Report 3)

Encompasses research questions on the technologies that we will need, how they will be integrated and the pathways for their deployment and the associated retirement of legacy systems.

The Social Engagement Dynamics Research Briefing Paper (Report 4)

Encompasses research questions on the policy and regulatory settings that will be required for the transition, how people (individuals, communities, regions etc.) will be engaged, and how principles of equity, justice and fairness throughout the course of the transition will be developed and applied.

The Transition Dynamics Research Briefing Paper (Report 5)

Encompasses research questions on the governance structures that we will need, how we will manage the economic, health and social risks, and how industries and employment will be transformed.

Australian Learned Academies Data Interworking Network (ALADIN) Project

Released: 24 June 2022



This project sought to understand the current and future research data needs and requirements (infrastructure, assets, policies, skills) of Australia from the leaders of academia and industry, as represented by and through the Learned Academies, to achieve the project's aim. The project aimed to help develop a cohesive data agenda across Australia's Learned Academies.

The pandemic and recent natural disasters have highlighted the importance of improved and rapid access to data to assist with timely decision making, and subsequently, the need for coordinated, integrated data infrastructure. Rich, interoperable and robust data can also create deeper, richer, more comprehensive and improved insights on wider and longer-term policy considerations and knowledge, especially across disciplines. The increased volume, breadth and velocity of data from past, existing and new sources will enable researchers to make more accurate observations, predictions and understandings of potential unintended consequences leading to more robust research findings, improved innovations and better insights for public policy. However, it is clear we lack the skills, resources, tools and technologies to leverage this opportunity to its full extent, to develop new knowledge and address the real world. Additionally, different disciplines have different needs and levels of readiness and capability to realise this opportunity, for their research and ultimately to enhance Australia's social, economic, environmental and cultural future.

Broadly, the reports highlight three key areas for action:

- 1. further investment in data, as a public good, but especially for research and innovation
- real action is needed to implement the FAIR (Findable, Accessible, Interoperable and Reusable) and CARE (Collective benefit, Authority to control, Responsibility and Ethics) principles
- 3. there are actions for all stakeholders in leading change and building capability to realise Australia's data future.

Academies' individual discipline reports can be found on their websites or at the following links:

Environmental scan: Health (by AAHMS)

Environmental scan: Humanities (by AAH)

Environmental scan: Science (by AAS)

Environmental scan: Social Sciences (by ASSA)

Environmental scan: Technology and Engineering (by ATSE)

Projects Underway

During 2021–22 ACOLA commenced two projects, for the Australian Government Department of Social Services and the Northern Territory Government. These projects seek to:

- better understand and identify opportunities to improve the capability of key professionals working with people with disability. The project will include a guide to implementing disability confidence training and education for Australia's health, education, social science, and justice workforces.
- identify the current successes of the Northern
 Territory science and research sector and suggest
 20-year priorities and investments to grow this.

These projects are both due for completion in 2022–23, with reports released in consultation with project funders.



Other Activities | Seminars, webinars and submissions

ACOLA continued to support the Australian Chief Scientist, National Science and Technology Council (the Council), Parliamentary Inquiries (both Federal and State/Territory) through briefings and timely, accessible and Rapid Research Information process, formerly known as the Rapid Research Information Forum (RRIF).

We have also supported various inquiries, reviews and discussions with international bodies and governments, including with bodies in Europe and the Asian Pacific region and statements regarding major international events, such as COP26 and the invasion of Ukraine, as relevant to our purpose.

Notable activities include:



Uluru Statement from the Heart

Following extensive discussion across Fellowships, external stakeholders and Aboriginal and Torres Strait Islander leaders, ACOLA released a statement in response to the Uluru Statement from the Heart. The goal of which was to recognise, at the Academy level, that a commitment to a journey of change between Aboriginal and Torres Strait Islander peoples and the research sector for an inclusive and a shared positive future was needed.

ACOLA's statement, released following the fourth anniversary of the presentation of the painted and signed *Uluru Statement of the Heart*, to the then Prime Minister and Opposition Leader at the Garma Festival, outlines how ACOLA and Australia's Learned Academies will actively listen, learn, reflect and engage in furthering our commitment to, and support of, the *Statement*.

We recognise that all aspects of the Australian community need to take action and that the research sector has played a role actively and tacitly in past and current actions, and we seek to address these. As leaders in the research sector, through our Statement, we have committed to participating in the creation of a harmonised, national research culture. One that removes structural inequity, values diversity, enriches and strengthens our and others' understandings of the world, and makes tangible actions to address the past and create a better future.

This Statement builds on our MoU with the Australian Institute of Aboriginal and Torres Strait Islander Studies (AIATSIS) in early 2021.



Statement on Ukraine

In March 2022, following the shocked of the military operation by the Russian Government towards Ukraine ACOLA and the Academies released a statement. Following consultation, we added our voice in support recognising the physical and mental health impacts as well as the impact on research, collaboration, knowledge creation and innovation, in both Ukraine and Russia.

We express solidarity with members of the National Academy of Sciences of Ukraine, colleagues in Ukrainian Universities, and the people of Ukraine more broadly, and hope for a peaceful and swift resolution.



Collaboration between ACOLA and Australia Parliament House Library

Established in late 2020, the collaboration between the Parliamentary Library and the ACOLA continues to grow from strength to strength, facilitating independent, interdisciplinary research-based briefings and discussions on important topics between Australia's leading minds, from Australia's Learned Academies, and Parliamentarians and their staff. During 2021–22, topics covered were:

- Australia's space industry
- biometrics
- future of media
- blockchain technologies, and
- Indigenous knowledge.

Where appropriate recordings are published on the ACOLA and Parliament House websites.

Workplan for 2022–2023



Visibility through strong communications, engagement, and outreach

Clear communication of ACOLA's value proposition, project processes, its activities and alignment to activities across society continues to be a priority. This includes working closely with governments to understand their urgent information and evidence needs to support their planning for social, cultural and economic recovery from the COVID-19 pandemic.

ACOLA will invest in its communications capability and capacity, particularly to build awareness of the organisation and support the needs of stakeholders through access to independent and robust advice and understand the value of interdisciplinary advice. Key activities will include:

- enhancing ACOLA's approach to external engagement
- ensuring an active social media presence
- be a trusted adviser and broker for expertise and experts on policy issues, and
- deliver workshops and briefings for key stakeholder groups.

Building and maintaining relationships developed through past and existing projects will be important, especially with Ministers' offices and senior bureaucrats, to ensure and expand ACOLA's impact.



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A key trusted adviser and thought leader on complex issues

ACOLA has a well-established track record in providing timely and interdisciplinary evidence-based expert advice to inform public policy development. ACOLA will continue to develop this further and reinforce its role as a partner of choice for governments in robust, independent, interdisciplinary advice.

ACOLA's work with governments covers a wide arc, from brokering expert discussions to supporting department reviews to undertaking robust, deep advice/horizon scans. Through regular and constructive dialogue with the Australian Chief Scientist, Ministers, Departmental executives and other stakeholders ACOLA will continue to identify the issues where our unique expertise can best support policymaking.

To support research being at the centre of policymaking and to improve parliamentary scrutiny, ACOLA will continue and grow its successful collaboration with the Parliamentary Library, providing independent research-based briefings on topics of interest to the Australian Parliament.

Robust partnerships across the research community, domestically and internationally

ACOLA will continue to foster its existing and identify new domestic and international partnerships and relationships to support our mutual objectives. Importantly, building on refreshed discussions in early 2022, strengthen our relationship with the Royal Society Te Apārangi in New Zealand.

Finally, ACOLA will continue to engage and develop relationships to ensure Aboriginal and Torres Strait Islander knowledge and perspectives are incorporated into ACOLA activities and studies.

Board and Committees

ACOLA maintains a robust governance framework to enable to meet its various legal and operating requirements, including best practice.

Board of Directors



Professor John Shine AC PresAA (2021 Chair of the ACOLA Board) President, Australian Academy of Science (to May 2022)

John was Executive Director of the Garvan Institute of Medical Research from 1990 to 2011. He is Professor of Molecular Biology and Professor of Medicine at UNSW Sydney. The 'father of gene cloning', Professor Shine was the first to clone human hormone genes and the first to sequence the replication of a cancer-causing virus.



Professor Richard Holden FASSA (2022 Chair of the ACOLA Board) President, Academy of the Social Sciences in Australia (from November 2021)

Richard is professor of economics at UNSW Business School, and President of the Academy of the Social Sciences in Australia. He is one of Australia's leading economists. Professor Holden received a PhD from Harvard University and was a faculty member at MIT and the University of Chicago before returning to Australia.



Professor Hugh Bradlow FTSE President, Australian Academy of Technology and Engineering

Hugh is President of the Australian Academy of Technology and Engineering. He is also an independent Non-Executive Director of Silicon Quantum Computing Pty Ltd. He is globally recognised as a thought leader in telecommunications and was elected as the joint 2009 Australian Telecommunications Ambassador of the Year, named by Global Telecom Business as one of the most 100 most influential telecommunications executives in the world and Smart Company designated him as one of the 12 most influential people in Australian ICT.



Emeritus Professor Lesley Head FASSA FAHA President, Australian Academy of the Humanities

Lesley is currently Redmond Barry Distinguished Professor Emeritus at the University of Melbourne. Prior to this she held an ARC Australian Laureate Fellowship at the University Wollongong from 2009-14. Her research focuses on human interactions with the Australian environment, past and present, and she has contributed to international debates about relationships between society and nature. Her most recent research has been on the cultural dimensions of environmental issues including climate change. Lesley was awarded the Vega Medal of the Swedish Society for Anthropology and Geography (2015).



Laureate Professor Ingrid Scheffer AO FAA PresAHMS FRS President, Australian Academy of Health and Medical Sciences

Ingrid is a physician-scientist whose work as a paediatric neurologist and epileptologist at the University of Melbourne and Austin Health has led the field of epilepsy genetics over more than 20 years, in collaboration with Professor Samuel Berkovic and molecular geneticists. This resulted in identification of the first epilepsy gene and many more genes subsequently.



Professor Chennupati Jagadish AC PresAA FTSE President, Australian Academy of Science (from May 2022)

Jagadish is a Distinguished Professor and Head of Semiconductor Optoelectronics and Nanotechnology Group in the Research School of Physics, at The Australian National University. He has published widely in semiconductor physics, materials science, optoelectronics and nanotechnology. He is the Editor-in-Chief of Applied Physics Reviews, editor of 2 book series and serves on editorial boards of 19 other journals. He has received many Australian and international awards, including a UNESCO medal for his contributions to the development of nanoscience and nanotechnologies, and has been an ARC Federation Fellow and Laureate Fellow.



Mr Ryan Winn Chief Executive Officer, ACOLA

Ryan brings nearly two decades of experience leading strategy policy, research and program areas across various Australian Government departments to ACOLA. During that time, his broad areas of focus were higher education, research, research infrastructure, family violence and early childhood. He also had significant experience working on policies and programs that support Aboriginal and Torres Strait Islander peoples. Ryan has a Masters of Business Administration (Innovation and Leadership) from the University of Canberra and a Bachelor of Social Work from Curtin University.

Research Committee

Professor John Shine AC PresAA (2021 Chair) Professor Richard Holden (2022 Chair) Professor Hugh Bradlow FTSE Professor Ingrid Scheffer AO FAHMS FAA Emeritus Professor Lesley Head FASSA FAHA

Audit, Risk and Finance Committee

Professor Jane Hall FASSA (2021 Chair) Professor Ingrid Scheffer AO FAHMS FAA (2022 Chair) Kylie Walker, CEO, Australian Academy of Technology and Engineering Anna-Maria Arabia, CEO, Australia Academy of Science Dr Tina Parolin, Executive Director, Australian Academy of Humanities Dr Chris Hatherly, CEO, Academy of the Social Sciences in Australia Dr Cath Latham, Interim CEO, Australian Academy of Health and Medical Sciences (2021) Catherine Luckin, CEO, Australian Academy of Health and Medical Sciences (2022)

Legislative & Contractual Compliance

For the report period, ACOLA is up to date in its compliance with the provisions of relevant Federal corporate and tax legislation, as well as State legislation. All commercial contractual obligations are also up to date.

Auditor

AccountAbility (ACT) Pty Ltd

Recent Expert Panel Members

Australian Energy Transition Research Plan

Mr Drew Clarke AO PSM FTSE (Chair) Professor Ken Baldwin FTSE Professor Fran Baum AO FAHMS FASSA Dr Bruce Godfrey FTSE Emeritus Professor Sue Richardson AM FASSA Emeritus Professor Libby Robin FAHA

NT Science Enable Opportunities

Professor Alan Andersen FAA Professor Stuart Cunningham AM FAHA Professor Alan Cass AO FAHMS Dr Helen Garnett FTSE Distinguished Professor Stewart Lockie FASSA

Enhancing Disability Responsiveness of Occupations

Professor Iva Strnadová (Co-Chair) Professor Karen Fisher FASSA (Co-Chair) Professor Gerard Goggin FAHA Dr Erol Harvey FTSE Professor Cathie Sherrington FAHMS

Response to the Uluru Statement from the Heart

Professor Alex Brown FAHMS Professor Heather Goodall FASSA Emeritus Professor Lesley Head FASSA FAHA Mr David Hind OAM FIChemE FEA FTSE Professor Wendy Hoy AO FAA Professor John Patrick FAA Professor Tim Rowse FASSA Dr Sarah Ryan FTSE

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