



Australian Government

OFFICE OF THE
CHIEF SCIENTIST

STRATEGIC RESEARCH PRIORITY SETTING

KEY MESSAGES

PURPOSE

To ensure that Government support for research is adequate in areas that are of immediate and critical importance to Australia and its place in the world.

OUTCOME

A requirement that Government Departments and Agencies ensure that a proportion of their research support, consistent with their broad mission, is focussed on the priority areas.



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BALANCE

- Investment in research contributes to a secure, healthy, socially and economically prosperous future for Australia and all Australians.
- Investment in the priority areas for research may support the full spectrum of research – ‘basic’ to ‘applied’.
- Investment in fundamental research contributes to a basic understanding of the very nature of things - driven by curiosity about us and our world – and provides the bank of knowledge upon which society will draw to meet challenges in the future.
- Balance therefore means that *not all* research funding will be tied to priority areas.



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THE UNDERLYING PHILOSOPHY

- **High-quality research is essential to Australia's productivity, innovation and national wellbeing, and to our place in (and our contribution to) the world.**
- **Doubtful that there will ever be enough funding to support everything that everybody could do – there never has been.**
- **Research funding will continue to be rationed, therefore.**
- **Rationing means that we need to ensure that priorities can be met.**



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- **Merit will prevail, but in that context, the Government needs to be sure that areas of particular importance are not missed or diminished because of a ranking system or, indeed, some other process.**
- **In other words, it is important that the Government ensures that there is adequate investment in areas of research that are simply more important than others to national wellbeing - right now.**
- **Research areas not selected in the prioritisation process, will continue to have available, through current mechanisms, the proportion of funding not supporting the priorities.**



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WE ARE:

- **Prioritising research to deliver outcomes to Australian society.**
- **Trying to find out what we do, what we should be doing, how well we are doing it, and what to do about it if we do not do it well – or if it is at risk.**
- **Encouraging inter-department/agency co-operation and interdisciplinary approaches whenever sensible.**
- **Encouraging better data sets and documentation on investments and outcomes that are open and accessible while consistent with privacy, security and confidentiality.**



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WE ARE NOT:

- **Simply trying to search out what we don't do.**
- **Getting down to a level of fine detail – e.g. research projects.**
- **Prioritising research simply to improve research excellence in a particular discipline.**



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EXPECTATIONS

- **There will be a maximum of fifteen priority areas which will be largely defined by current policy imperatives linked to the needs of the Challenges.**
- **There will be some overlap in research priorities between Challenges.**
- **Some will be multidisciplinary.**
- **We will find that we already invest in some (or maybe many) priority areas.**
- **We may find that we underinvest in some key areas.**



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- **The process when complete will reveal a profile of our research activity and funding in the priority area , its quality and its sustainability.**
- **Setting research priorities will be a ‘rolling’ process. They will be evaluated and may be adjusted every two years.**

WE KNOW

- **Research institutions will have their own priorities: a product of their culture and their capacity in various areas.**
- **It is expected (anticipated) some will align with the priority areas- even if over time.**



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STRATEGIC RESEARCH PRIORITY SETTING

PRIORITY SETTING – THE PROCESS

THE PROCESS

- **Five Societal Challenges, identified by Government as the most critical challenges facing us as a nation.**
- **These Challenges are not, themselves, research priorities. They drive the identification of priority areas for research.**
- **Understanding and meeting these Challenges will be the outcome of research - on a scale to make a difference.**
- **Addressing the societal challenges will require effort that bridges disciplines and encourages collaboration between researchers, government and industry.**
- **The Challenges will evolve – as will the priority areas.**



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1. SOCIETAL CHALLENGES

- **Five societal challenges have been identified as immediately critical for Australia and its place in the world.**

They are:

- 1. Living with a changing environment**
- 2. Promoting population health and wellbeing**
- 3. Managing our food and water assets**
- 4. Securing Australia's place in a changing world**
- 5. Lifting productivity and economic growth**



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2. IDENTIFYING RESEARCH PRIORITIES

- **Expert Working Groups established comprising government officials, leading experts and researchers.**
- **The Groups will be asked to identify the three most important research areas within each Societal Challenge.**
- **The Groups will convene in a Plenary Session to acknowledge the priority areas and to rationalise any overlaps.**
- **Government is expected to consider the priorities in April 2013.**



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3. CAPABILITY AND CAPACITY MAPPING

- **The ARCom Secretariat will analyse the existing capability and capacity available to address each research priority in accordance with the research fabric articulated in the National Research Investment Plan.**
- **The map will be comprehensive (as data allows): funding data, performance data, personnel data, student data.**



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4. ADVICE TO DEPARTMENTS AND AGENCIES

- **ARCom will provide advice to Government.**
- **The process is expected to conclude with a formal letter to relevant Commonwealth Departments and Agencies requiring that a proportion of their budget (consistent with their mission) be committed to the priorities.**
- **Measures/metrics/...in advance**
- **The impact of the advice would take effect no later than the financial year 2014-15**



5. REPORTING ON THE OUTCOMES: THE PRIORITIES

- **ARCom will coordinate a whole-of-government response for the Government, identifying the extent to which priorities are funded by Departments and Agencies, and the impact of research conducted.**
- **This is expected to form part of future impact assessment mechanisms.**



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REVIEWING THE SOCIETAL CHALLENGES AND PRIORITIES

- The societal challenges will be reviewed as and when required by Government.
- The research priorities will be reviewed every two years as part of the process for developing the next National Research Investment Plan (ie. in 2015).
- A review does not mean *out with the old and in with the new*.
- It means that a rolling process will embrace some of the old – as long as they continue to be important to the nation's interest - and introduce new ones as they emerge.



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CHALLENGE 1:

LIVING IN A CHANGING ENVIRONMENT

- Research outcomes will identify strategies to develop resilient natural (ecosystems) and built environments (people, communities and their utilities, and industry) that can all thrive in a changing climate.
- *Changing environment does not mean a changing economic, political or security environment which is covered in Challenge 4.*



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CHALLENGE 2:

PROMOTING POPULATION HEALTH & WELLBEING

- **Research outcomes will show how to build resilient communities and achieve a state of complete physical, mental and social well-being, and not merely the absence of disease, or infirmity*, for all Australians in whichever part of Australia they live.**

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CHALLENGE 3:

MANAGING OUR FOOD & WATER ASSETS

- **Research outcomes will identify water and land management practices that can accommodate competing demands for water supply to urban and regional communities, while growing Australia's capacity to contribute to the growing global need for food.**



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CHALLENGE 4:

SECURING AUSTRALIA'S PLACE IN A CHANGING WORLD

- **Research outcomes will improve Australia's capacity to deliver national security in the context of broader global uncertainty, while identifying the means to safeguard personal security of all Australians.**
- ***This challenge does not refer to climate or environmental change, which is covered in Challenge 1.***



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CHALLENGE 5:

LIFTING PRODUCTIVITY & ECONOMIC GROWTH

- **Research outcomes will help to build a resilient new economy so that Australia can thrive, while identifying the means to enhance access to improved living standards for all Australians.**



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