

Please note: the substantive content of the 2026 NRI Roadmap Survey begins at Question 20 (with prior questions dealing with administrative and other information).

As such all submissions that are published include the responses submitted from Question 20 onwards only.

Q20.

Part 2: Research themes

2.1 NRI comprises the assets, facilities and associated expertise to support leading-edge research and innovation in Australia and is accessible to publicly and privately funded users across Australia and internationally. We are seeking your input on possible directions for future national-level investment - i.e., where the requirements are of such scale and importance that national-level collaboration and coordination are essential.

The [2021 Roadmap](#) used a challenge framework to support NRI planning and investment. With this in mind, consider likely future research trends in the next 5 - 10 years, and with respect to one or more of the 8 challenge areas identified in the 2021 Roadmap as listed below:

- describe emerging research directions and the associated critical research infrastructure requirements that are either not currently available at all, or not at sufficient scale and
- describe current national infrastructure requirements that you anticipate will no longer fit the definition of NRI in 5-10 years.

Do not limit your commentary to NCRIS funded capabilities.

Q21.

Resources Technology and Critical Minerals Processing

Q22.

Food and Beverage

Q23.
Medical Products

Q24.
Defence

Q25.
Recycling and Clean Energy

Q26.
Space

Q27.
Environment and Climate

Robust and ongoing investment is required to address the current state of Australia's sea level monitoring infrastructure in the Southern Ocean region. Long-term, research quality sea level monitoring is aligned with Australia's commitments to systematic observations of Essential Climate Variables in the data sparse Southern Ocean region (UNFCCC). These observations support the following government priorities: - National Science and Research –> protecting and restoring Australia's environment: sea level monitoring in the Southern Ocean region directly supports coastal hazard management (including sea level rise, storm surge, and tsunamis) for Macquarie Island and Australian Antarctic Territories, important for protecting environmental and ecosystem values, and indirectly supports coastal hazard management for protecting Australia's vast coastal environmental and ecosystem values via improved projections of changing sea level. –> building a secure and resilient nation: precise, continuous sea level monitoring in the Southern Ocean region is critical for understanding the substantial contributions of ice sheets and glaciers to sea level change, and for providing valuable information on the rates of change both for the Australian and Pacific region and globally. - National Climate Resilience and Adaptation Strategy –> improve climate information and services: applications of sea level data and derived data products from the Southern Ocean region are essential for a range of applications directly relevant for climate resilience and adaptation. Research-quality data are needed to derive accurate estimates and uncertainties in the rates of change in sea level, surge climate, and ice mass. These estimates are needed by coastal practitioners and policymakers in the determination and iteration of climate adaptation pathways.

Q28.

Frontier Technologies and Modern Manufacturing

Q29.

2.2 The 2024 statement of National Science and Research Priorities (NSRPs) includes outcomes linked to each priority to assist in identifying critical research needed in the next 5 to 10 years.

Consider the priority statements and, with respect to one or more of the 5 priority areas as listed below:

- describe emerging research directions and the associated critical research infrastructure requirements that are either not currently available at all, or
- not at sufficient scale and describe current national infrastructure requirements that you anticipate will no longer fit the definition of NRI in 5-10 years.

Do not limit your commentary to NCRIS funded capabilities, and where relevant, refer to the underpinning outcomes and research identified in the NSRPs document.

Q30.

Transitioning to a net zero future

Q31.

Supporting healthy and thriving communities

Q32.

Elevating Aboriginal and Torres Strait Islanders knowledge systems

Q33.

Protecting and restoring Australia's environment

A lack of coordination and sustained commitment to maintaining Southern Ocean Sea Level monitoring impacts Australian and global research efforts to understand sea level changes and their direct impact for Australia's coastal and estuary environment.

Q34.

Building a secure and resilient nation

Research on sea level changes in the Southern Ocean region and what those changes mean for Australia as a nation is critical for building a secure and resilient nation. This is critical both for the resilience of Australian communities and the security of Australia within the Australia-Pacific region. This research is limited by a lack of coordination and sustained commitment to maintaining Southern Ocean Sea Level monitoring instrumentation and by limited availability of observational data (i.e. FAIR principles) needed by researchers.

Q35.

2.3 The case for a new NRI capability, or enhancements to existing capabilities, typically emerges through advocacy from research communities clustering around rigorously identified needs and goals. Such a concept could respond to a requirement for novel or expanded capacity within a domain, or across domains, and must be such that it could only be made available with national-level investment. If you have identified such a requirement, briefly describe the need, the proposed infrastructure capability, the medium-term goals, impacted research communities, and the timeframe over which you advocate its establishment. Your response can include links to relevant existing reports.

Q36.

Part 3: Industry perspectives

This section is seeking input specifically from industry-based respondents. Other respondents can skip this section.

Recommendation 6 of the [2021 Roadmap](#) related to improvements in industry engagement with NRI. To complement work on this topic that has occurred since then, we are seeking additional advice on NRI requirements as perceived by current or potential industry-based users.

Q37.

3.1 Have you (or your organisation) interreacted with or used Australia's NRI?

☐ Yes

☐ No

Q38.

3.2 If so, please briefly outline the NRI capabilities you (or your organisation) have interacted with or used. Do not limit your response to NCRIS capabilities.

This question was not displayed to the respondent.

Q39.

3.3 Please indicate your (one or more) primary reasons for interacting with NRI:

This question was not displayed to the respondent.

Q40.

3.4 If you answered no, please indicate your (one or more) primary reasons:

This question was not displayed to the respondent.

Q41.

Part 4: Other comments

4.1 Please elaborate on any of your above responses or add any other comments relevant to the development of the 2026 Roadmap. Your response can include reference or links to existing reports that you recommend be considered during the 2026 Roadmap development process.

Q49.

4.2 Optional Document Attachment.

Note: Our strong preference is that answers are provided against the relevant questions in the survey. However, this file upload option is available for submissions in file format, where needed. Please ensure the document includes your name or organisation.