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 <u>2021 Roadmap</u> 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

Given the geopolitical uncertainty facing Australia, the need to process rare & critical processing onshore has become more urgent- in this respect the Multi-purpose mineral and material processing facilities listed in the 2021 challenge need further investment

Food and Beverage
223. Medical Products
Q24. Defence
Since 2021, there has been a major change in our defence alliances. Given we are an island nation this potential loss of major defence alliances means autonomy has a signficantly higher priority- we need a vastly improved understanding of our surrounding Oceans & our Atmosphere for 1. surveillance, 2. prediction of ocean state, 3. detection of hostile vessels, submarines & planes, 4. safe operations & 5. civil defence threats. Increased investment in total and diversity of approaches to monitoring our EEZ are top priority- relates to IMOS and BoM Given the changing nature of warfare witnessed in current conflicts an in creased emphasis on autonomous vehicles & drones also top priority Robotics!
225. Recycling and Clean Energy
226. Space

Q27.

Environment and Climate

As climate change intensifies the current NCRIS facilities become even more critical- my focus is on the following: Networked environmental modelling infrastructure, Integrated, publicly accessible environmental datasets, Marine, coastal, freshwater, groundwater and atmospheric monitoring and observation infrastructure- without a doubt my colleagues overseas envy our clear integration and public good emphasis- we lead but this must continue as the repsonse times for disasters/ disruptions reduces

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

Given forecast impacts on Australia's coasts with intensifying climate change, there is a strong need for bedding down of coastal infrastructure which has been the poor cousin of terrestrial, atmospheric and open ocean observing systems

Q34. Building a secure and resilient nation
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?
YesNo
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:

Q40.

This question was not displayed to the respondent.

✓ I did not know about it
Other facilities suit my needs better
☐ I would like to, but cannot get access due to geographical location
☐ I would like to, but believed that access was only available to academic researchers
☐ I am not aware of any capability that meets my needs
Other (please specify)
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.

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