

New integrated capacities

Two existing sets of dispersed research infrastructure can be considered integrated capabilities, but these investments are not currently managed as a whole:

- National Collections, consisting of the Atlas of Living Australia and CSIRO's 8 national collections; and
- eResearch infrastructure, consisting of existing high performance computing, data and tools investments.

The parts of the National Collections are identified separately below as other infrastructure of national significance. Likewise the parts of the eResearch infrastructure capacity are included separately as National Research Infrastructure investments.

National research infrastructure

Infrastructure and description/ host/owner	Nature		Cost (\$m)		Usage and Access					
	Type	Socio-Economic outcome	Alignment with national priorities	Annual Operating (2004–14)	Commonwealth Investment (capital/operational) (2004–14)	Co-investment (2004–14)	Age (years)	Extent available to external users	Arrangements	# users 2013/14
AuScope (NCRIS) auscope.org.au Geoscience and Geospatial Infrastructure System that combines traditional research infrastructure with applied science infrastructure. Host: AuScope Ltd	Multi-site	01. Exploration and exploitation of the Earth	2011 RI Roadmap	5.60	44.65/34.60	80.36	7/10	100% of available capacity	Online portal Membership	4125
AIMS Sea Simulator aims.gov.au/ seasim Marine research aquarium facility for tropical marine organisms with the ability to finely manipulate key environmental factors. Host: Australian Institute of Marine Science	Single site	02. Environment	National interest	3.30	36.20/1.50	0.00	2/20	50% of research capacity	Merit allocation	Not provided

Infrastructure and description/ host/owner	Nature		Cost (\$m)		Usage and Access						
	Type	Socio-Economic outcome	Alignment with national priorities	Annual Operating (2004–14)	Commonwealth Investment (capital/operational) (2004–14)	Co-investment (2004–14)	Age (years)	Extent available to external users	Arrangements	# users 2013/14	
Atlas of Living Australia (NCRIS) ala.org.au Online access to a repository of information about Australian plants, animals, and fungi. Part of the CSIRO National Research Collections. Host: CSIRO	Virtual	02. Environment	2011 RI Roadmap	5.10	34.10/9.10	1.01	7/10	Free	100% of service	Online portal	528,000 ⁶⁸
Aurora Australis antarctica.gov.au National icebreaker and Antarctic supply vessel. Host: Department of the Environment	Vessel	02. Environment	National interest	~24	~2.00/~200.00	0	24/25	Free (majority of users) or agreed contribution	100% of available capacity	Merit allocation	219
Australian Antarctic Krill Aquarium Antarctic and subantarctic research aquarium facility for marine organisms with the ability to manipulate key environmental factors. Host: Department of the Environment	Single site	02. Environment	National Interest	~0.6		0	15/20	Free	100% of available capacity	Merit allocation	50
Australian Antarctic Territory antarctica.gov.au Australian bases in Antarctic and sub-Antarctic. Host: Department of the Environment	Multi-site	02. Environment	National interest	~45	~120.0/~375.0	0	25/50	Free (majority of users) or agreed contribution	100% of available capacity	Merit Allocation	420
Groundwater Infrastructure (NCRIS) groundwater.com.au National network of world-class groundwater infrastructure sites. Host: University of New South Wales	Multi-site	02. Environment	2011 RI Roadmap	3.70	15.00/7.84	1.40	10/20	Free	100% of service	Online portal	74

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Integrated Marine Observing System (NCRIS) imos.org.au Distributed national ocean monitoring system. Host: University of Tasmania	Distributed	02. Environment	2011 RI Roadmap	35.80	77.00/67.60	32.10	7/10	100% of service	Online portal	845
Marine National Facility (RV Investigator) mni.csiro.au National research vessel. Host: CSIRO	Vessel	02. Environment	National interest	30.10	120.00/127.90	0.00	1/25	100% of available capacity	Merit allocation	N/A
National Coral Core Archive aims.gov.au/docs/about/facilities Extensive collection of coral cores and natural historical archives that extend over several centuries, pre-dating both observational records of reef environments and human interference in regional and global environments. Host: Australian Institute of Marine Science	Single Site	02. Environment	National interest	0.18	1.9/0	0.00	2	100% of available capacity	Collaboration / Merit allocation	Five orgs, including AIMS
Terrestrial Ecosystem Research Network (NCRIS) tern.org.au TERN enables ecosystem scientists to collect, contribute, store, share and integrate data across disciplines. Host: University of Queensland	Distributed	02. Environment	2011 RI Roadmap	6.71	35.80/22.30	6.70	7/10	100% of service	Online portal	2378

⁶⁹ Access is dependent on project type and counter-party, including free for collaboration on AIMS project, co-invested where AIMS and counter party are co-investing in a project targeting joint outcomes, commercial where AIMS sells science products that utilise the infrastructure.

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Astronomy Australia (NCRIS) astronomyaustralia.org.au AAL works with Australia's astronomy community to advance the goals in the Australian astronomy Decadal Plan and Mid-Term Review of the Decadal Plan. Host Astronomy Australia Ltd	Multi-site	03. Exploration and exploitation of Space	National interest	12.00	10.70/46.40	0.00	40/50	100% of service	Merit allocation	190
Australian Astronomical Observatory aao.gov.au The AAO is an optical/near-infrared astronomy previously administered as a joint facility of Australia and the United Kingdom. Host: Department of Industry and Science	Multi-site	03. Exploration and exploitation of Space	National interest	12.00	10.70/46.40	0.00	40/50	100% of service	Merit allocation	190
Australian Telescope National Facility atnf.csiro.au Networked collection of national radio telescopes of global significance, incorporating the Australian Square Kilometre Array Pathfinder, Parkes, Narrabri and Mopra. Host: CSIRO	Multi-site	03. Exploration and exploitation of Space	National interest	23.6 ⁷⁰	131.00/177.60	0.00	Various ⁷¹	100% of available capacity	Merit allocation	Various ⁷³
Giant Magellan Telescope gmto.org 22m international telescope currently being constructed in Chile. Host: Australian National University	Single site	03. Exploration and exploitation of Space	International agreement (non-treaty)	TBA when complete	88.40/0.00	571.60	0/50	10.5% of total capacity/	Membership	N/A

⁷⁰ 14/15 annual cost ASKAP, Parkes, Narrabri and Mopra, noting that ASKAP is in development stage, and SKA is aspirational.

⁷¹ As above.

⁷² Free to all except mixed cost for Mopra.

⁷³ Projects/users: ASKAP 10/363; Parkes 31/70; Narrabri 126/300; Mopra 18/30.

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<p>Australian Urban Research Infrastructure Network (NCRIS) aurin.org.au</p> <p>National collaboration delivering eResearch infrastructure to empower better decisions for Australia's urban settlements and their future development. Host: University of Melbourne</p>	50% of Australia's access right	Membership	N/A	1.78	20.00/4.00	0.70	5/10	100% of service	Online portal	397
<p>Australian Plasma Fusion Research Facility (NCRIS) h1nfanu.edu.au</p> <p>Facility enables basic experimental research on magnetically confined plasma. Host: Australian National University</p>	Single site	05. Energy	2011 RI Roadmap	1.80	7.00/0.90	0.00	20/30	100% of available capacity	Merit allocation	49
<p>Biofuels (NCRIS)</p> <p>Infrastructure to support research into the conversion of agricultural wastes to fuels, including a renewable biocommodities pilot plant and a photobioreactor facility. Host: AusBiotech Ltd</p>	Multi-site	05. Energy	2011 RI Roadmap	0.48	7.00/4.30	6.60	7/10	100% of available capacity	Merit allocation	33
<p>Australian Microscopy and Microanalysis Research Facility (NCRIS) ammrf.org.au</p> <p>National grid of equipment, instrumentation and expertise in microscopy and microanalysis for widely used and cutting edge techniques, including optical, electron and X-ray techniques. Host: University of Sydney</p>	Distributed	06. Industrial production and technology	2011 RI Roadmap	5.60	10.60/17.30	24.50	9/10	100% of available capacity	Merit allocation	3161

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	Type	Socio-Economic outcome	Alignment with national priorities	Annual Operating (2004–14)	Commonwealth Investment (capital/operational) (2004–14)	Co-investment (2004–14)	Age (years)	Cost	Extent available to external users	Arrangements	# users 2013/14
Australian National Fabrication Facility (NCRIS) anff.org.au National network of state-of-the-art fabrication facilities and expertise. Host: Australian National Fabrication Facility Ltd	Distributed	06. Industrial production and technology	2011 RI Roadmap	16.20	70.70/63.90	87.90	7/10	Fee for service	100% of available capacity	Merit allocation	2190
Australian Animal Health Laboratory csiro.au Nation's premiere biosecure research facility. Regional and international biosecurity role. Host: CSIRO	Single site	07. Health	National interest	33.00	63.39/428.10	1.7	29/50	Fee for service	100% of available capacity	Merit allocation	82
Australian Phenomics Network (NCRIS) australianphenomics.org.au Mouse models and related services for the study of human and animal disease. Host: Australian National University	Multi-site	07. Health	2011 RI Roadmap	12.20	23.30/16.20	5.50	10/12	Fee for service	100% of available capacity	Merit allocation	753
Bioplatforms Australia (NCRIS) bioplatforms.org.au Network of facilities providing services, scientific and data infrastructure in the specialist fields of genomics, proteomics, metabolomics and bioinformatics. Host: Bioplatforms Australia Ltd	Distributed	07. Health	2011 RI Roadmap	17.16	75.60/51.00	45.70	7/10	Fee for service	100% of available capacity	Merit allocation	8319

Infrastructure and description/ host/owner	Nature		Cost (\$m)			Usage and Access				
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Population Health Research Network (NCRIS) phrn.org.au Provides researchers with the ability to link de-identified population health data from a diverse and rich range of health data sets, across sectors and jurisdictions. Host: University of Western Australia	Virtual	07. Health	2011 RI Roadmap	8.94	20.00/18.00	11.20	5/10	100% of service	Merit allocation	>400
Translating Health Discovery into Clinical Applications (NCRIS) therapeuticinnovation.com.au National infrastructure and partnering network enabling the development of small molecules, biopharmaceuticals, cell therapies and biomarkers. Host: Therapeutic Innovation Australia Ltd	Distributed	07. Health	2011 RI Roadmap	38.89	35.00/7.00	18.50	4/10	100% of service	Merit allocation	147
Australian Plant Phenomics Network (NCRIS) plantphenomics.org.au State-of-the-art plant phenotyping tools and expertise. Host: University of Adelaide	Multi-site	08. Agriculture	2011 RI Roadmap	5.00	17.60/16.90	2.90	7/10	100% of available capacity	Merit allocation	95
ANSTO Nuclear Science Facilities (Bragg Institute EIF Neutron Beam Facilities & Centre for Accelerator Science – CAS) (NCRIS) ansto.gov.au Upgraded nuclear science facilities at ANSTO's Bragg Institute. Host: ANSTO	Single site	13. General advancement of knowledge: R&D from other sources	National interest	5.8	62.00/19.30	10.00	8/15-20	90% of total capacity	Merit allocation	168

Infrastructure and description/ host/owner	Nature		Cost (\$m)			Usage and Access				
	Type	Socio-Economic outcome	Alignment with national priorities	Annual Operating (2004–14)	Commonwealth Investment (capital/operational) (2004–14)	Co-investment (2004–14)	Age (years)	Extent available to external users	Arrangements	# users 2013/14
ANSTO Nuclear Science Facilities (Bragg Institute) (Non-EIF) ansto.gov.au Upgraded nuclear science facilities at ANSTO's Bragg Institute. Host: ANSTO	Single site	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	9.50	77.00/60.00	11.00	1-8/15	90% of reactor operation days (300 days/year)	Merit allocation	386
Australian Access Federation aaf.edu.au Framework and support infrastructure to allow trusted electronic communications and collaboration within and between universities and research institutions in Australia and overseas Host: CAUDIT	Virtual	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	1.19	4.80/2.39	0.00	8/10	100% of service	Membership	800
Australian National Data Service (NCRIS) ands.org.au Data management, connectivity and discovery services. Host: Monash University	Virtual	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	8.30	60.30/28.30	0.00	7/10	N/A	Merit allocation	2750
Australian Research and Education Network aarnet.edu.au rn.edu.au National dedicated high performance education and research broadband telecommunications network. Host: AARNet Pty Ltd	Network	13. General advancement of knowledge: R&D from other sources	National interest; 2011 RI Roadmap	~50.00	38.50/1.50	11.20	25/30	100% of service	Membership	42 units, CSIRO, other partners

Infrastructure and description/ host/owner	Nature		Cost (\$m)			Usage and Access					
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Australian Synchrotron synchrotron.org.au Australia's national synchrotron light source. Host: Australian Synchrotron Holding Company Pty Ltd (owner) & ANSTO (operator)	Single site	13. General advancement of knowledge: R&D from other sources	National interest; 2011 RI Roadmap	25.00	75.47/75.30	287.50	7/25	100% of total capacity	Merit allocation	4347	
Camperdown Cyclotron ansto.gov.au Australia's first cyclotron dedicated to biomedical research Host: ANSTO	Single site	13. General advancement of knowledge: R&D from other sources	National interest	1.3	8.60/2.00	0.00	2/15	100%	Merit allocation	27	
European Molecular Biology Laboratory (NCRIS) emblaaustralia.org Associate Membership of the European Molecular Biology Laboratory (EMBL), Europe's flagship laboratory for basic research in molecular biology Host: Monash University	Membership	13. General advancement of knowledge: R&D from other sources	National interest	~4.00	8.3/8.00	~15.00		100%	Mixed fee for service and free	Membership	N/A
Heavy Ion Accelerators (NCRIS) physics.anu.edu.au 14UD pelletron accelerator and superconducting 'booster' linear accelerator located at the ANU. Host: Australian National University	Single site	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	17.75	10.00/3.00	3.55	40/50	100% of available capacity	Fee for service	Merit allocation	74

Infrastructure and description/ host/owner	Nature		Cost (\$m)			Usage and Access				
	Type	Socio-Economic outcome	Alignment with national priorities	Annual Operating (2004–14)	Commonwealth Investment (capital/operational) (2004–14)	Co-investment (2004–14)	Age (years)	Extent available to external users	Arrangements	# users 2013/14
<p>National Computational Infrastructure (NCRIS) nci.org.au National high performance computer facility, focusing on climate and geoscience. Managed by CSIRO. Does not include the ANU managed supercomputing facility in Canberra. Host: Australian National University</p>	Single site	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	18.57	63.00/17.30	11.00	4/5	20% of total capacity	Merit allocation	2433
<p>National Deuteration Facility (NCRIS) ansto.gov.au Biological and chemical deuteration facility. Host: ANSTO</p>	Single site	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	1.24	3.60/10.40	0.00	6/25	100% of available capacity	Merit allocation	87
<p>National eResearch Collaboration Tools and Resources (NCRIS) nectar.org.au ICT infrastructure that:</p> <ul style="list-style-type: none"> • Creates new information centric research capabilities; • Significantly simplifies the combining of instruments, data, computing, and analysis applications; and • Enables the development of research workflows based on access to multiple resources. <p>Host: University of Melbourne</p>	Virtual	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	4.14	47.00/9.40	5.70	4/10	100% of service	Merit allocation	4369

	Nature		Cost (\$m)		Usage and Access					
Infrastructure and description/ host/owner	Type	Socio-Economic outcome	Alignment with national priorities	Annual Operating (2004–14)	Commonwealth Investment (capital/ operational) (2004–14)	Co- investment (2004–14)	Age (years)	Extent available to external users	Arrangements 2013/14	# users 2013/14
National Imaging Facility (NCRIS) anif.org.au National network providing state of the art imaging of animals, plants and materials. Host: University of Queensland	Multi-site	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	5.67	33.60/9.30	68.40	7/10	100% of available capacity	Merit allocation	856
OPAL Reactor ansto.org.au National nuclear research reactor. Host: ANSTO	Single site	13. General advancement of knowledge: R&D from other sources	National interest	45.00	442.90/390.00	0.00	8/40	Fee for service	Merit allocation	Not provided
Pawsey Supercomputing Centre (NCRIS) ivec.org.au National high performance facility, focusing on astronomy. Host: CSIRO	Single site	13. General advancement of knowledge: R&D from other sources	National interest	8.92	80.00/4.50	0.00	1/4	100% of service	Merit allocation	596
Research Data Services Initiative (NCRIS) rds.edu.au National network of data storage that improves the availability, management and sharing of data, to support data intensive research. Host: University of Queensland	Enabling	13. General advancement of knowledge: R&D from other sources	2011 RI Roadmap	Not provided	50.00/10.00	0.00	5/5	100% of service	Merit allocation	Not provided

Other infrastructure that has national significance

International Ocean Discovery Program

iodp.org.au

International partnership of scientists and research institutions organised to explore Earth's structure and history through scientific ocean drilling.

Owner/Host: Australia-NZ IODP Consortium

Type: Membership to international project

Social-economic outcome :01. Exploration and exploitation of the Earth

Australia's Virtual Herbarium (AVH)

avh.chah.org.au

AVH provides access to information obtained from the collections held in Australian herbaria.

Australia's herbaria house over seven million plant, algae and fungi specimens. The collected data stored with these specimens provides the most complete picture of the distribution of Australia's flora to date.

Owner/Host: AVH is a collaborative project of the Commonwealth, state and territory herbaria, under the auspices of the Council of Heads of Australasian Herbaria (CHAH).

Type: Distributed

Social-economic outcome :02. Environment

Australian National Algae Culture Collection

csiro.au/research/collections

Part of the CSIRO Australian National Collections.

Owner/Host: CSIRO

Type: Collection

Social-economic outcome :02. Environment

Australian National Fish Collection

cmar.csiro.au/anfc

csiro.au/research/collections

Part of the CSIRO Australian National Research Collections.

Owner/Host: CSIRO

Type: Collection

Social-economic outcome: 02. Environment

Australian National Herbarium

csiro.au/research/collections

Part of the CSIRO Australian National Research Collections.

Owner/Host: CSIRO and Department of the Environment

Type: Collection

Social-economic outcome: 02. Environment

Australian National Insect Collection

csiro.au/research/collections

Part of the CSIRO Australian National Research Collections.

Owner/Host: CSIRO

Type: Collection

Social-economic outcome: 02. Environment

Australian National Wildlife Collection

csiro.au/research/collections

Part of the CSIRO Australian National Research Collections.

Owner/Host: CSIRO

Type: Collection

Social-economic outcome: 02. Environment

Australian Seed Bank Online

seedpartnership.org.au

Distributed database of Australia's ex situ conservation seed collections of native flora that are for research, species recovery, education and safeguarding for future use. Working to increase data coverage to include germination data and have that publicly accessible for use by the conservation and restoration groups and organisations.

Host: Atlas of Living Australia

Owner: Owner of data: individual State and Australian Government botanical agencies, which are members of the Australian Seed Bank Partnership.

Type: Distributed

Social-economic outcome: 02. Environment

Australian Soils Archive

csiro.au

CSIRO collection of soil samples.

Host/Owner: CSIRO

Type: Collection

Social-economic outcome: 02. Environment

Australian Tree Seed Centre

csiro.au/research/collections

Part of the CSIRO Australian National Research Collections.

Host/Owner: CSIRO

Type: Collection

Social-economic outcome: 02. Environment

Australian Tropical Herbarium

ath.org.au

Reference set of tropical plants, both native and introduced.

Host/Owner: James Cook University

Type: Collection

Social-economic outcome: 02. Environment

Bureau of Meteorology monitoring facilities (various)

bom.gov.au

cawcr.gov.au

Includes advanced polarimetric weather radar, cloud radar and LIDAR; Baseline Air Pollution Station, Cape Grim; satellite ground stations for earth observations from space.

Host/Owner: Bureau of Meteorology

Type: Multi-site

Social-economic outcome: 02. Environment

Bureau of Meteorology Supercomputer

bom.gov.au

Supercomputer facility focused on operational weather forecasting.

Host/Owner: Bureau of Meteorology

Type: Single site

Social-economic outcome: 02. Environment

Commonwealth Paleontological Collection

ga.gov.au

National collection of Australian fossils.

Host/Owner: Geoscience Australia

Type: Collection

Social-economic outcome: 02. Environment

Environmental Research Institute of the Supervising Scientist – Laboratory facilities

Laboratory facilities in Darwin and Jabiru supporting remote sensing, radiological, water quality, biological, ecotoxicological and geomorphic research and monitoring activities to support the statutory role of the Supervising Scientist.

Host/Owner: Supervising Scientist – Department of the Environment

Type: Multi-site

Social-economic outcome: 02. Environment

Environmental Research Institute of the Supervising Scientist – Monitoring network

Network of water quality, radiological and biological monitoring equipment and sites across the Alligator Rivers Region of the NT.

Host/Owner: Supervising Scientist – Department of the Environment

Type: Multi-site

Social-economic outcome: 02. Environment

Geoscience Australia Research Facilities (various)

Includes Geodetic Observatory Network, Geomagnetic Observation Network, National Earth Observation Data Acquisition, Processing, Archive & Data Cube Research Capability, Seismo-acoustic Observatory Network, Satellite Laser Ranging Station.

Host/Owner: Geoscience Australia

Type: Multi-site

Social-economic outcome: 02. Environment

RV Cape Ferguson (AIMS Research Vessel)

aims.gov.au

24m AIMS research vessel used for coastal research. Predominantly utilised to support GBR research and monitoring.

Host/Owner: Australian Institute of Marine Science

Type: Vessel

Social-economic outcome: 02. Environment

RV Solander (AIMS Research Vessel)

aims.gov.au

35m AIMS research vessel used for coastal research. Predominantly utilised to underpin research in support of the oil and gas sector.

Host/Owner: Australian Institute of Marine Science

Type: Vessel

Social-economic outcome: 02. Environment

Specialist Marine Laboratories

aims.gov.au/laboratories

Extensive range of laboratories including microscope, organic geochemistry, radiation and PC2 facilities.

Host/Owner: Australian Institute of Marine Science

Type: Laboratories

Social-economic outcome: 02. Environment

Australian Centre for Hypersonics

hypersonics.mechmining.uq.edu.au

Impulse facilities for testing aerodynamic flow and other effects at hypersonic speeds.

Host/Owner: University of Queensland

Type: Single site

Social-economic outcome: 03. Exploration and exploitation of Space

Australian International Gravitational Observatory

aigo.org.au

Gravity wave observatory based in Western Australia.

Host/Owner: University of Western Australia

Type: Single site

Social-economic outcome: 03. Exploration and exploitation of Space

CESARE Large Scale Experimental Building Fire Facility

vu.edu.au

Large scale fire testing facilities.

Host/Owner: Victoria University

Type: Single site

Social-economic outcome: 04. Transport, telecommunication and other infrastructure

AGL Energy Ltd Solar Flagship

agl.com.au

uq.edu.au

Research infrastructure component of \$450m western NSW solar plant.

Host/Owner: University of Queensland

Type: Multi-site

Social-economic outcome: 05. Energy

CO2CRC - CCSNet research infrastructure project

Network of carbon capture and storage research infrastructure facilities, established to support the CarbonNet project.

Host/Owner: CO2CRC Ltd

Type: Distributed

Social-economic outcome: 05. Energy

National Geosequestration Laboratory

ngl.org.au

Carbon capture and storage research infrastructure facility established to support the South West Hub project.

Host/Owner: CSIRO

Type: Distributed

Social-economic outcome: 05. Energy

Victorian Life Sciences Computation Initiative

vlsci.org.au

Supercomputing facility focused on Victorian life science research.

Host/Owner: University of Melbourne

Type: Single site

Social-economic outcome: 07. Health

National Hydrodynamics Research Centre

amc.edu.au

Suite of hydrodynamics research facilities including the Cavitation Research Laboratory and the Centre for Marine Simulations.

Host/Owner: Australian Marine College

Type: Single site

Social-economic outcome: 12. General advancement of knowledge: R&D from General University Funds

Multi-modal Australian Sciences Imaging and Visualisation Environment (MASSIVE)

massive.org.au

Specialised High Performance Computing facility for Imaging and Visualisation.

Host/Owner: Monash University

Type: Single site

Social-economic outcome: 13. General advancement of knowledge: R&D from other sources
