

Geoscience Australia

**CORPORATE PLAN
2015/16 – 2018/19**

August 2015

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1. Overview

1.1 CEO Introduction

Geoscience Australia is the Australian Government's national geoscience organisation, applying geoscience to Australia's most important challenges. It is the government's technical adviser on all aspects of geoscience, and custodian of the geographical and geological data and knowledge of the nation.

The organisation is a trusted source of advice to all areas of government, industry, the academic sector, and the community based on our high quality, innovative approach to geoscience. The value of Geoscience Australia's products and services is determined by the benefit our stakeholders receive. This value defines the scope of our work and highlights the benefits we provide in delivering against government priorities.

As the accountable authority of Geoscience Australia, I have the pleasure in presenting to you Geoscience Australia's 2015-16 Corporate Plan covering the four year period to 2018-2019, as required under paragraph 35(1)(b) of the *Public Governance, Performance and Accountability Act 2013*.

Dr Chris Pigram

Chief Executive Officer

1.2 Purpose

Geoscience Australia is the geoscience advisor to the Australian Government on matters of national importance, and custodian of the geographical and geological data and knowledge of the nation. By understanding the geological history and geospatial aspects of our continent, we build our knowledge and capability to prepare us for the future.

We deliver a wide range of products that address important and significant national issues to assist government and the community to make informed decisions about the use of natural resources, the management of the environment, and community safety.

Through six key strategic priority areas, Geoscience Australia provides applied research and information for the Australian community to obtain sustainable economic, social and environmental benefits.

- Building Australia's Resource Wealth
- Ensuring Australia's Community Safety
- Securing Australia's Water Resources
- Managing Australia's Marine Jurisdictions
- Providing Fundamental Geographic Information
- Maintaining Geoscience Knowledge and Capability

We apply our geoscience knowledge and capability to acquire, store and manage Australia's national fundamental geological and geographic information.

This enables Australia to make critical decisions regarding our natural resource potential and marine environment, and helps to build our resilience to natural hazards. It also ensures sustainable Australian communities by managing our precious water resources.

Geoscience Australia continues to actively promote Australia's mineral and energy resources to international trade partners, increasing awareness of the opportunities Australia's vast resource sector provides. Working with our government partner organisations, we have broadened our scope of work in support of Australia's efforts to reduce the impact of natural disasters in our region.

Applying geoscience within these areas is the focus of our work program over the next four years, and provides a platform for the strategic direction of Geoscience Australia beyond 2019.

2. Strategic Priorities

2.1 Building Australia's Resource Wealth

Environment

Australia's mineral and energy resources are an important component of the nation's wealth, both economically and socially. Understanding the available resources is a prerequisite for formulating sound policies on resources and land access.

Australia has a significant advantage in the production of mineral commodities over other nations. This advantage stems from the rich and diverse mineral endowment, the high quality regional-scale geoscience information that lowers the risks of exploration, advanced exploration, mining and processing technologies, a skilled work force, generally benign physical conditions and stable economic conditions.

Objective

Maximise benefits from Australia's minerals and energy resources, now and into the future.

Our role

Attract exploration investment to Australia by building a prospectus of minerals and energy resource potential.

Our strategies

- Develop capability to predict Australia's minerals and energy resource potential.
- Identify new prospective minerals and energy provinces through the acquisition, analysis and delivery of pre-competitive information.
- Assess Australia's minerals and energy resources to provide authoritative, independent information and advice to the Australian Government and other stakeholders.
- Provide leadership in promoting Australia's minerals and energy resource potential.

Desired outcomes

- Australia is an internationally competitive destination for minerals and energy resource investment.
- Australia maintains its minerals and energy resources pipeline through new discoveries.
- Australia's resources are optimised to benefit and contribute to the economy.
- There is public confidence in the management of the minerals and energy resources sector.

Our performance

The following performance measures, deliverables and key performance indicators, were developed to measure significant progress towards or achievement of the strategic priority area objective and desired outcomes.

Deliverables (2015-16)

- Provision of information and advice to the Australian Government and other stakeholders on Australia's minerals and energy resources.
- Provision of support to the Offshore Petroleum Acreage Release – gazettal areas.
- Release of pre-competitive offshore data on the Houtman Sub-basin.
- Publish annual Australian Energy Resource Assessment.
- Publish a mineral explorer's guide for the Stavely Zone, Western Victoria.

- Publish final CO2 geological storage assessments for the National CO2 Infrastructure Plan.
- Delivery of international promotional campaigns in collaboration with State and Northern Territory geological agencies in South East Asia and North America to attract investment for Australia's minerals and energy resources.
- Release and delivery of onshore precompetitive geophysical data.

Key Performance Indicators

Key Performance Measure	2014-15 Estimated actual	2015-16 Budget	2016-17 Forward estimate	2017-18 Forward estimate	2018-19 Forward estimate
Stakeholder satisfaction with Geoscience Australia's acreage release products and services	85%	80%	80%	80%	80%
Geoscience Australia's data is used by companies that are successfully awarded offshore petroleum acreage release	80%	80%	80%	80%	80%
Investment uptake by minerals exploration industry of tenement blocks released in 2015-16 by the Victorian Government in the greenfields Stavely Zone, Western Victoria	N/A	60%	20%	N/A	N/A
Number of new investors attracted to minerals and energy exploration in Australia through domestic and international promotional events	N/A	5	5	5	5
Number of requests for Geoscience Australia data received from new entrants to exploration in Australia	N/A	10	10	10	10

2.2 Ensuring Australia's Community Safety

Environment

Natural hazards, particularly floods, cyclones, bushfires and earthquakes, have a significant impact on the economy, the environment and society. The direct costs of property and infrastructure damage and business losses are significant, as are the Government's outlays in relief and recovery payments.

Australia's ability to effectively mitigate the impacts of natural hazards and disasters is contingent upon the availability of information on the incidence and impact of specific hazards and on early warning and advice.

Objective

Australian communities are more resilient to natural hazards.

Our role

Support Australia's capability to manage the impact of natural hazards.

Our strategies

- Develop an understanding of natural hazards and community exposure to support risk mitigation and community resilience.
- Provide authoritative, independent information and advice to the Australian Government and other stakeholders to support risk mitigation and community resilience.
- Maintain and improve systems for effective natural disaster preparedness, response and recovery.
- Contribute to Australia's overseas development program.

Desired outcomes

- Australia has national capability to reduce the economic, social and environmental impacts of hazard events.
- Informed decisions can be made in response to and in preparation for hazard events.
- Ongoing monitoring and early warning systems provide safeguards from the impacts of hazard events.

Our performance

The following performance measures, deliverables and key performance indicators, were developed to measure significant progress towards or achievement of the strategic priority area objective and desired outcomes.

Deliverables (2015-16)

- Provision of information, advice, data and tools to the Australian Government to mitigate against and respond to natural hazards.
- Provide mapping services and support to the Australian Government's Crisis Co-ordination Centre.
- Completion of the Australian Flood Risk Information Portal.
- Provision of an earthquake alert and tsunami warning service.
- Delivery of satellite derived bushfire hotspot information via the national bushfire monitoring system (Sentinel).
- Release the 2015-16 edition of building exposure and agricultural exposure products from the National Exposure Information System.
- Delivery of the final built environment exposure framework report to the Bushfire and Natural Hazards Cooperative Research Centre (CRC).
- Delivery of final reports for the Papua New Guinea Risk and Volcano Monitoring program.
- Delivery of the Australia-Indonesia Facility for Disaster Reduction (AIFDR) work program.

Key Performance Indicators

Key Performance Measure	2014-15 Estimated actual	2015-16 Budget	2016-17 Forward estimate	2017-18 Forward estimate	2018-19 Forward estimate
Availability of National bushfire monitoring system, Sentinel, between October and March	96%	90%	96%	97%	98%
Respond to requests to activate the International Charter for Space and Major Disasters within 24 hours	100%	90%	90%	90%	90%
Number of flood study entries accessible to the public through the Australian Flood Risk Information Portal	1,500	1,750	1,900	2,050	2,150
Earthquake alerts and tsunami warnings issued within agreed timeframes	100%	100%	100%	100%	100%
Nuclear events detected within agreed timeframes	100%	100%	100%	100%	100%

2.3 Securing Australia's Water Resources

Environment

Australia is the driest inhabited continent, which makes the use and management of water a key challenge. There is, however, a sparse understanding of our water resources in much of the continent.

Groundwater and surface water systems are fundamentally linked and an adequate understanding of groundwater in particular is critical for optimised and holistic management of water resources. In many parts of Australia groundwater underpins minerals and energy resource development, agriculture and regional communities and the environment. Understanding groundwater systems and minimising the impacts of development on groundwater supply and quality are thus critical to Australia's ongoing water security and regional development.

Objective

Optimise and sustain the use of Australia's water resources.

Our role

Inform the understanding of the location, quantity, quality and sustainable use of Australia's groundwater resources and surface water systems.

Our strategies

- Provide authoritative, independent information and advice to the Australian Government and other stakeholders on groundwater resources, processes and impacts.
- Conduct multi-disciplinary and multi-scale geoscientific research to enhance knowledge and understanding of groundwater and surface water systems.
- Improve the quality and reliability of elevation and surface water information to support forecasting of water flows.

Desired outcomes

- Management of Australia's water resources is underpinned by scientific evidence.
- Communities have access to a sustainable water resource.
- There is public confidence in the management of water resource use and environmental impacts.

Our performance

The following performance measures, deliverables and key performance indicators, were developed to measure significant progress towards or achievement of the strategic priority area objective and desired outcomes.

Deliverables (2015-16)

- Provision of information and advice to the Australian Government and other stakeholders on groundwater resources, processes and impacts.
- Delivery of Geoscience Australia's components of the Australian Government's Bioregional Assessments Technical Programme.
- Release the 2015-16 edition of the national surface water product to support water forecasting by the Bureau of Meteorology.

Key Performance Indicators

Key Performance Measure	2014-15 Estimated actual	2015-16 Budget	2016-17 Forward estimate	2017-18 Forward estimate	2018-19 Forward estimate
Requests for groundwater resource management advice on <i>Environment Protection and Biodiversity Conservation Act 1999 - Water Trigger Amendment 2013</i> referrals and approval conditions responded to within agreed timeframes	95%	95%	95%	95%	95%
Surface Water foundation spatial datasets meet legal and policy needs of the <i>Water Act 2007</i> and the National Climate Change Adaptation Framework	100%	100%	100%	100%	100%

2.4 Managing Australia's Marine Jurisdictions

Environment

Australia's marine jurisdiction is large, 1.8 times the size of Australia's land mass and 4 per cent of the global ocean. With increasing global demand for energy, food and security, activity within the marine jurisdiction is becoming increasingly important to the Australian economy. Effective and efficient management of the marine jurisdiction relies on baseline mapping, definition of boundaries and characterisation of marine resources and assets, and the ability to measure change over time.

Objective

Maximise benefits from the sustainable use of Australia's marine jurisdiction.

Our role

Contribute to the sustainable development of marine resources and conservation of key ecosystems.

Our strategies

- Define and maintain an authoritative representation of Australia's maritime boundaries.
- Build knowledge to inform the sustainable development of marine resources and management of marine ecosystems.
- Provide authoritative, independent information and advice to the Australian Government and other stakeholders on marine environmental assets and Australia's Antarctic Territory.

Desired outcomes

- Expertise in the marine environment to support the sustainable development of resources.
- Australia has legal and regulatory certainty of marine jurisdictions.
- There is public confidence in the marine environmental regulations and outcomes.

Our performance

The following performance measures, deliverables and key performance indicators, were developed to measure significant progress towards or achievement of the strategic priority area objective and desired outcomes.

Deliverables (2015-16)

- Provision of information and advice to the Australian Government and other stakeholders on marine environmental assets and Australia's Antarctic Territory.
- Release the 2015-16 edition of Australia's maritime boundaries.
- Delivery of the Casey Station seabed bathymetry dataset and marine survey report on the Australian Antarctic Territory.
- Delivery of research products describing marine biodiversity assets in key areas of the marine estate as part of the National Environmental Science Programme Marine Biodiversity Hub.
- Provision of high resolution seabed mapping datasets and post survey report to the Australian Government and other stakeholders for the Darwin Harbour marine survey.

Key Performance Indicators

Key Performance Measure	2014-15 Estimated actual	2015-16 Budget	2016-17 Forward estimate	2017-18 Forward estimate	2018-19 Forward estimate
Authoritative representations of Australia's maritime boundaries are accessible via the interactive mapping platform	50%	90%	90%	90%	90%

Public availability of the Darwin Harbour bathymetry dataset and marine survey report via Geoscience Australia's website	N/A	100%	100%	100%	100%
Public availability of the Casey Station bathymetry dataset and marine survey report via Geoscience Australia's website	N/A	100%	100%	100%	100%

2.5 Providing Fundamental Geographic Information

Environment

Australia has a vast and rich landscape and geographic data provides the nation with a multifaceted view of Australia's landscape through time.

Geoscience data and information is a significant national resource with enduring value for the Australian community. Understanding and analysing when and where things are happening is essential for government, industry and researchers to make decisions and improve national economic, environmental and social outcomes for the nation.

Objective

Understanding the location and timing of processes, activities and changes across the Australian continent to inform decision-making for both natural and built environments.

Our role

Provide reliable national fundamental information about the geographies of the nation.

Our strategies

- Build and implement Foundation Spatial Data Framework to deliver reliable representations of the geography of Australia.
- Champion the use of location information for government and community decision making.
- Deliver national geodetic capability.

Desired outcomes

- Australia has an authoritative source of national fundamental geographic information including maps, data and global navigation information.
- Australia has continuity of geospatial information to monitor changes to the natural and built environment through time.

Our performance

The following performance measures, deliverables and key performance indicators, were developed to measure significant progress towards or achievement of the strategic priority area objective and desired outcomes.

Deliverables (2015-16)

- Delivery of updated water observations providing a multi-temporal coverage of Australia from 1987 to 2015.
- Population of National Map and interactive mapping platforms with updated digital topographic maps, base maps, and foundation spatial data products.
- Release of the 2015-16 edition of Australia's national digital elevation model.
- Delivery of updated aeronautical navigation charts and vertical obstacles information to Airservices Australia.
- Development of a new national time-dependent coordinate reference frame.

- Provision of ocean floor mapping, data and advice to the Australian Transport Safety Bureau to support the search for missing aeroplane MH370.

Key Performance Indicators

Key Performance Measure	2014-15 Estimated actual	2015-16 Budget	2016-17 Forward estimate	2017-18 Forward estimate	2018-19 Forward estimate
Respond to requests for geospatial information to the Australian Government Crisis Coordination Centre within 2 hours between October and March	90%	90%	90%	90%	90%
National elevation and vertical obstacle products comply with Civil Aviation Regulations	100%	100%	100%	100%	100%
Foundation Spatial Data Framework products are accessible through National Map and interactive mapping platforms	20%	60%	60%	65%	70%

2.6 Maintaining Australia's Geoscience Knowledge and Capability

Environment

Properly collected and archived data has an enduring value. It is essential this data is collected through appropriate means and is available in a format that is understandable and accessible.

This data is acquired from a range of platforms including satellites, observatories and laboratory instruments. Data from individual observatories or individual samples can be integrated to build models of our continent, Antarctica, island territories and surrounding oceans.

Objective

Maintain an enduring and accessible knowledge base and capability to enable evidence-based policy and decision making by government, industry and the community. Maximise the value of public sector information by creating opportunities for innovative use and reuse of data.

Our role

Ensure geoscientific and geospatial data, information and collections are gathered, managed and made accessible for the use of all Australians both now and into the future.

Our strategies

- Operate and maintain infrastructure for geoscientific observations and analysis to support program objectives.
- Ensure geoscientific and geospatial data, information and collections are captured, curated and made accessible to the community for use now and into the future.
- Apply high performance computing to transform geoscience research and facilitate innovation.
- Promote, educate and build public awareness of geoscience and its benefits.
- Provide a functional national repository of offshore petroleum data and samples.

Desired outcomes

- Australia's geoscience data, information and collections are managed and maintained.
- Australia's geoscience data, information and collections are discoverable and accessible as a public resource for informed decision making.
- Australia has as an established infrastructure to ensure the ongoing collections of fundamental geoscience data.

Our performance

The following performance measures, deliverables and key performance indicators, were developed to measure significant progress towards or achievement of the strategic priority area objective and desired outcomes.

Deliverables (2015-16)

- Delivery of land surface observations from Landsat-7 and Landsat-8 satellites.
- Delivery of enhanced capability of the Australian Geoscience Data Cube to support additional streams of satellite data.
- Upgrade of the Alice Springs observatory antenna.
- Delivery of the National Science Week and Earth Science Week programmes, to raise awareness of geoscience in the Australian community.
- Delivery of geoscience education services through Geoscience Australia's Education Centre and website.
- Full implementation of the National Offshore Petroleum Information Management System.

Key Performance Indicators

Key Performance Measure	2014-15 Estimated actual	2015-16 Budget	2016-17 Forward estimate	2017-18 Forward estimate	2018-19 Forward estimate
Scheduled satellite passes acquired	98%	98%	98%	98%	98%
Data availability from infrasound and hydro-acoustic networks	98%	98%	98%	98%	98%
Data availability from geodetic observatory networks	95%	95%	95%	95%	95%
Data availability from the Australian Seismic Network	90%	90%	90%	90%	90%
Geomagnetism data collected and added to archive	98%	98%	98%	98%	98%
Stakeholder satisfaction with the information available from Geoscience Australia's website	80%	80%	80%	80%	80%

3. Financial Management

Geoscience Australia's work plan and budget for the period 2015-16 to 2018-19 was developed based on the six strategic priority areas and the delivery of a work program to meet their objectives.

Geoscience Australia is committed to meeting whole-of-government priorities and ensuring the provision of services is as efficient and well-targeted as possible. In this context, Geoscience Australia is improving operational efficiencies, reducing administrative overheads and delivering services within a governance framework that demonstrates the benefits and value of the organisation's work.

GEOSCIENCE AUSTRALIA: Comprehensive income statement

(source: Portfolio Budget Statements 2015-16)

	2014-15 Estimated actual \$'000	2015-16 Budget \$'000	2016-17 Forward estimate \$'000	2017-18 Forward estimate \$'000	2018-19 Forward estimate \$'000
EXPENSES					
Employee benefits	78,122	75,318	76,163	77,304	78,464
Suppliers	115,291	91,234	88,555	87,920	87,257
Depreciation and amortisation	11,411	9,062	8,441	7,743	7,640
Other expenses	50	50	50	50	50
Total expenses	204,874	175,664	173,209	173,017	173,411
OWN-SOURCE INCOME					
Sale of goods and rendering of services	59,799	39,900	39,900	39,900	39,900
Other	89	90	92	95	97
Total own-source revenue	59,888	39,990	39,992	39,995	39,997
Net cost of/(contribution by) services	144,986	135,674	133,217	133,022	133,414
Revenue from Government	126,805	121,258	120,076	121,252	122,440
Total comprehensive income/(loss)	(18,181)	(14,416)	(13,141)	(11,770)	(10,974)

GEOSCIENCE AUSTRALIA: Capital Budget Statement

(source: Portfolio Budget Statements 2015-16)

	2014-15 Estimated actual \$'000	2015-16 Budget \$'000	2016-17 Forward estimate \$'000	2017-18 Forward estimate \$'000	2018-19 Forward estimate \$'000
NEW CAPITAL APPROPRIATIONS					
Capital budget - Bill 1 (DCB)	4,602	4,556	4,561	4,785	4,837
Equity injections - Bill 2	10	10	-	-	-
Total new capital appropriations	4,612	4,566	4,561	4,785	4,837
<i>Provided for:</i>					
Purchase of non-financial assets	4,612	4,566	4,561	4,785	4,837
Total Items	4,612	4,566	4,561	4,785	4,837
PURCHASE OF NON-FINANCIAL ASSETS					
Funded by capital appropriations (a)	10	10	-	-	-
Funded by capital appropriation - DCB (b)	4,602	4,556	4,561	4,785	4,837
Funded internally from departmental resources (c)	3,000	6,520	6,710	6,461	-
TOTAL	7,612	11,086	11,271	11,246	4,837

(a) Includes both current Bill 2 and prior Acts 2, 4 and 6 appropriations and special capital appropriations.

(b) Does not include annual finance lease costs. Includes purchases from current and previous years' Departmental Capital Budgets (DCBs).

(c) Includes the following sources of funding:

- current Bill 1 and prior year Acts 1, 3 and 5 appropriations (excluding amounts from the DCB);
- s 74 Retained revenue receipts;
- proceeds from the sale of assets.

Geoscience Australia's capital budget was developed to support the delivery of the work program and to replace aging corporate and scientific equipment.

4. Capability

4.1 Collaboration

Geoscience Australia cooperates with governments, industry, publically funded research agencies and academia to provide specialist expertise and information to support delivery of Australian Government services.

Cooperation with state, territory and Commonwealth government entities is largely facilitated through the use of the Australian Governments National Collaboration Framework.

Geoscience Australia partners with other government entities in delivering services on a cost recovery basis. Geoscience Australia's decision to partner and co-invest with other government entities is based on delivering mutually beneficial outcomes directly aligned to the organisation's strategic priorities. For services not aligned to Geoscience Australia's strategic priorities, these may be provided on a full cost recovery basis.

4.2 ICT Strategy

The Geoscience Australia Information Communications Technology (ICT) Strategy is a statement of intent for the strategic direction of Geoscience Australia ICT in the context of the organisation's Strategic Directions and Science Principles (see <http://www.ga.gov.au/about/who-we-are/corporate-documents/science-principles>).

The ICT Strategy has been informed through consultative arrangements with Geoscience Australia's science divisions, ICT and Corporate Services on the current and future ICT-related needs of the organisation, together with an assessment of the external environment.

The purpose of the ICT Strategy is to:

- provide the overarching reference for all ICT decision making, especially investment and architectural decisions;
- set enterprise ICT directions, architecture and priorities for Geoscience Australia that align with the organisation's Strategic Plan, stakeholder needs, government information and data policies, and whole of government directions set out in the APS ICT Strategy 2012-15; and
- communicate and promote the agreed understanding of ICT direction and ICT priorities in support of Geoscience Australia's activities at all levels in the organisation and externally.

ICT and science is rapidly advancing in the government, industry and research sectors. As new technologies and capabilities arise, there are new demands to acquire, implement, monitor and support them to meet strategic and operational needs. Change is occurring more rapidly than ever before and requires an annual review of the ICT and science drivers for change.

Science is at the centre of government industry policy because it can provide the answers to questions on how Australia can be more competitive. Geoscience Australia's purpose to provide geoscience information, services and capability to the Australian Government, industry and stakeholders is largely dependent on ICT to enable, innovate and support the strategic priorities of Geoscience Australia associated scientific activities.

Geoscience Australia is a member of the Australian Government Science ICT Network, which is a cohort of government science Chief Information Officers (CIO) with the purpose to develop and communicate an agenda of shared strategic issues and to act as a strategic engagement point for a

wide variety of stakeholders, government, collaboration partners and industry. Geoscience Australia is also a member of the Department of Industry and Science Portfolio CIO Committee.

To view Geoscience Australia's full ICT strategy please visit our website at http://www.ga.gov.au/__data/assets/pdf_file/0017/26063/GA-ICT-Strategy-2014-2017-v3.pdf

4.3 Workforce Plan

Geoscience Australia's workforce requires a range of capabilities across science, professional, ICT and administrative disciplines. A focus on the cohesion of science and ICT capabilities is an emerging trend in the capability requirements of Geoscience Australia. This is identified and supported by Geoscience Australia's ICT Strategy 2014-17, which supports whole-of-government ICT arrangements to implement efficiencies and standardisation through greater collaboration, sharing of services and an increasing emphasis on ICT security.

Geoscience Australia will continue to build on current operational workforce planning activities through strategic workforce planning. This includes using the APS Job Family Model to better understand gaps in capability demand and supply.

A key focus for Geoscience Australia is the development of ICT capability and supporting a shift from commodity driven ICT service to those that will deliver stronger scientific computing capability for Geoscience Australia.

4.4 Asset Management

The purchase of assets is a real and significant cost of program delivery. The effective management of assets is a key process within Geoscience Australia with a focus on achieving the best possible match of assets with program delivery strategies.

Geoscience Australia's asset management framework is based on managing all aspects of an asset's life-cycle. This includes activities such as the purchase and acquisition, use and maintenance, valuation, and disposal of the asset. Consideration is given to all relevant costs, benefits and risks associated with the asset.

The focus for Geoscience Australia in the short term will be the review and development of a 10 year asset management strategy and plan that will effectively support the organisation's strategic objectives.

4.5 Risk Oversight and Management

Geoscience Australia has an established risk management framework designed to meet the requirements of the *Public Governance, Performance and Accountability Act 2013* and the *Commonwealth Risk Management Policy* and is consistent with AS/NZS ISO 31000:2009 *Risk management – Principles and guidelines*.

The effective application of Geoscience Australia's risk management framework will improve decision making and facilitate better outcomes for the Australian Government. The framework provides a systematic method to make informed decisions that assist Geoscience Australia in meeting its strategic outcomes.

The objectives of Geoscience Australia's risk management framework include:

- ensuring risks are understood and managed efficiently and effectively;

- embedding systematic risk management into business processes;
- risk assessment is performed consistently from activities to organisation-wide strategic planning;
- creating an environment that encourages informed and appropriate risk-taking;
- clear communication and consultation on risks with relevant stakeholders;
- ensuring clarity over who can accept risks and who is responsible for managing risks;
- embedding risk management in day-to-day decision making;
- maintenance of risk management capability; and
- continual improvement in managing risk.

Attachment 1: Geoscience Australia 2015-2016 Work Plan

Strategic Plan		2015-16 Work Plan and Reporting Arrangements						
Value Stream	Strategy	Activity Code	Activity Name	Division	Deliverables (Corporate Plan)	Key Performance Indicators (Corporate Plan)	Quarterly Reportable Activities for Traffic Light Report	
Building Australia's Resource Wealth	1.1 Develop capability to predict Australia's minerals and energy resource potential.	1341	Northwest Margin Regional Petroleum Study Project	RD				
		1344	Basin Prospectivity Studies Project	RD				
		1338	Australian Lithosphere Studies Project	RD				
		1484	Earth Observation products for Mineral Assessments	EGD				
	1.2 Identify new prospective minerals and energy provinces through the acquisition, analysis and delivery of pre-competitive information.	1240	National Geophysical Acquisition and Stewardship	RD				
		1241	Minerals Pre-Competitive Greenfields Thomson Project	RD				Precompetitive data acquisition and publication of geological studies for the Minerals UNCOVER program and Regional Petroleum program (Lord Howe Rise Seismic Acquisition and processing project) (Oct-15, Mar-16 and May-16)
		1340	Minerals Pre-Competitive Greenfields Stavely Project	RD	Publish a mineral explorer's guide for the Stavely Zone, Western Victoria.	Investment uptake by minerals exploration industry of tenement blocks released in 2015-16 by the Victorian Government in the greenfields Stavely Zone, Western Victoria.		
		1339	National Mineral Potential Products Project	RD				
		1242	Browse Basin CO2 Storage Prospectivity Study Project	RD	Publish final CO2 geological storage assessments for the National CO2 Infrastructure Plan			
		1330	Ocean Bottom Seismic Data Acquisition and Processing Project	RD				
		1244	Gippsland Basin Seismic Acquisition and Processing Project	RD				
		1464	Canning Basin CO2 Storage Project	RD				
		1342	Onshore Carbon Storage Studies Project	RD	Release and delivery of onshore precompetitive geophysical data			
		1329	Geochronology and Stratigraphy of Australia	RD				
		1522	Victoria Basin Gravity Survey	RD				
		1336	Ngurrurpa WA Gravity Survey Project	RD				
		1520	South West Yilgam Gravity Survey	RD				
		1521	North Wiso Basin Gravity Survey	RD				
		1236	Eucla-Gawler Seismic Survey Project	RD				
		1235	South West Hub Carbon Capture and Storage 3D Seismic Survey Project	RD				
		1345	Northern Houtman Sub-basin Seismic Survey Project	RD	Release of pre-competitive offshore data on the Houtman Sub-basin			
		1397	Canning Coastal Seismic Survey	RD				
		1461	Boulia Region Seismic Survey Project	RD				
		1337	Yalgoo WA Magnetic and Radiometric Survey Project	RD				
		1474	Seismic and Magnetotelluric stewardship	RD				
		1331	Coompana Airborne Magnetic and Radiometric Survey Project	RD				
		1239	Isa Extension 3D Magnetotelluric Survey Project	RD				
		1332	Australian Lithospheric Architecture Magnetotelluric (AusLAMP) Project	RD				
		1393	South Gippsland Onshore Seismic Survey Project	RD				
		1519	Delamere Airborne Magnetic and Radiometric Survey	RD				
		1525	Lord Howe Rise	RD				Precompetitive data acquisition and publication of geological studies for the Minerals UNCOVER program and Regional Petroleum program (Lord Howe Rise Seismic Acquisition and processing project) (Oct-15, Mar-16 and May-16)
		1550	Virtual Geophysical laboratory Maintenance and Development	RD				
	1551	Yathong	RD					
	1536	Stavely Gravity Survey Project	RD					
1523	Musgraves Airborne EM Survey	RD						
1.3 Assess Australia's minerals and energy resources to provide authoritative, independent information and advice to the Australian Government and other stakeholders.	1528	Geological Storage of Carbon Dioxide (CO2CRC2)	RD					
	1322	Resources Advice	RD	Provision of information and advice to the Australian Government and other stakeholders on Australia's minerals and energy resources				
	1470	Radioactive Waste Siting Multi-Criteria Site Assessment (MCA) Project	RD					
	1323	Mineral Resource Assessment	RD					
	1326	Identified Petroleum Resources	RD					
1325	Undiscovered Petroleum Assessment	RD						

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	1.4 Provide leadership in promoting Australia's minerals and energy resource potential.	1394	Australian Energy Resources Assessment (AERA) Project	RD	Publish annual Australian Energy Resource Assessment		
		1247	National Offshore Petroleum Titles Administrator (NOPTA) Compliance	RD			
		1529	China Australia Geological Storage of CO2 No.3	RD			
		1530	National Offshore Petroleum Information Management System (NOPIMS) Data Stewardship	RD			
		1232	Acreege Release and Promotion	RD	Provision of support to the Offshore Petroleum Acreege Release – gazettal areas	GA's data is used by companies that are successfully awarded offshore petroleum acreage release (80%)	
						Stakeholder satisfaction with GA's acreage release products and services (80%)	
		1324	Minerals Promotion	RD	Delivery of international promotional campaigns in collaboration with State and Northern Territory geological agencies in South East Asia and North America to attract investment for Australia's minerals and energy resources.	Number of new investors attracted to minerals and energy exploration in Australia through domestic and international promotional events	Number of requests for GA data received from new entrants to exploration in Australia
Ensuring Australia's Community Safety	2.1 Develop an understanding of natural hazards and community exposure to support risk mitigation and community resilience.	1203	Hazard and Risk Models and Toolbox Development	CSEMD	Provision of information, advice, data and tools to the Australian Government to mitigate against and respond to natural hazards		
		1204	Bushfire and Natural Hazard Cooperative Research Centre Projects	CSEMD			
		1379	Bushfire and Natural Hazard Cooperative Research Centre Coastal Vulnerability Project	CSEMD			
		1174	Built Environment Information Research	EGD	Delivery of the final built environment exposure framework report to the Bushfire and Natural Hazards Cooperative Research Centre (CRC)		
		1205	Vulnerability	CSEMD			
		1171	Built Environment Exposure Information	EGD	Release the 2015-16 edition of building exposure and agricultural exposure products from the National Exposure Information System		
		1539	Enhancing the Exposure Report	EGD			
		1538	Building Attack Level value calculator	CSEMD			
	2.2 Provide authoritative, independent information and advice to the Australian Government and other stakeholders to support risk mitigation and community resilience.	1202	National Flood Risk Information Project	CSEMD	Completion of the Australian Flood Risk Information Portal	Number of flood study entries accessible to the public through the Australian Flood Risk Information Portal (1,750)	National Flood Risk Information Portal project (Mar-16 and Jun-16)
		1295	National Floor Risk Information Project - Flood Study Information	CSEMD			
		1207	Australian Reinsurance Pool Corporation Capability	CSEMD			
	2.3 Maintain and improve systems for effective natural disaster preparedness, response and recovery.	1215	Comprehensive Nuclear-Test-Ban Treaty (CTBT) National Data Centre Operations	CSEMD			
		1216	Nuclear Monitoring Technical Advice	CSEMD		Nuclear events detected within agreed timeframes (100%)	
		1298	Earthquake Alerts and Tsunami Warnings	CSEMD	Provision of an earthquake alert and tsunami warning service	Earthquake alerts and tsunami warnings issued within agreed timeframes	
		1305	Australian Tsunami Warning System Decision Support System Software Development Project	CSEMD			
		1489	Sentinel and Earth Observation data for disasters	EGD	Delivery of satellite derived bushfire hotspot information via the national bushfire monitoring system (Sentinel)	Availability of National bushfire monitoring system, Sentinel, between October and March (90%)	Delivery of the "10 minute Hotspots from Himawari-8" project as a part of the Australian Governments National Emergency Management Projects (NEMP) (May-16)
					Provision of information, advice, data and tools to the Australian Government to mitigate against and respond to natural hazards	Respond to requests to activate the International Charter for Space and Major Disasters within 24 hours (90%)	
2.4 Contribute to Australia's overseas development program.	1210	Department of Foreign Affairs and Trade – Papua New Guinea Volcanic Hazards	CSEMD	Delivery of final reports for the Papua New Guinea Risk and Volcano Monitoring program			
	1214	Department of Foreign Affairs and Trade / Geoscience Australia – Australia-Indonesia Facility for Disaster Reduction (AIFDR) Posting and Earthquake	CSEMD	Delivery of the Australia-Indonesia Facility for Disaster Reduction (AIFDR) work program			
	1209	Department of Foreign Affairs and Trade – Papua new Guinea Risk	CSEMD	Delivery of final reports for the Papua New Guinea Risk and Volcano Monitoring program			
	1212	Management for GA's International Disaster Risk Reduction Program	CSEMD				
	1218	South Pacific Sea Level and Climate Monitoring Project	CSEMD				

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		1553	Sendai Framework Implementation	CSEMD			
Securing Australia's Water Resources	3.1 Provide authoritative, independent information and advice to the Australian Government and other stakeholders on groundwater resources, processes and impacts.	1198	Advice on Impacts to Groundwater	EGD	Provision of information and advice to the Australian Government and other stakeholders on groundwater resources, processes and impacts	Requests for groundwater resource mgmt. advice on Environment Protection and Requests for groundwater Biodiversity Conservation Act 1999 - Water Trigger Amendment 2013 referrals and approval conditions responded to within agreed timeframes (95%)	
		1480	Groundwater Modelling Framework	EGD			
	3.2 Conduct multi-disciplinary and multi-scale geoscientific research to enhance knowledge and understanding of groundwater and surface water systems.	1195	Bioregional Assessments Coordination	EGD	Delivery of GA's components of the Australian Governments' Bioregional Assessments Technical Programme		
		1290	Gippsland Bioregional Assessment	EGD			
		1294	Information Support for Bioregional Assessments	EGD			
		1292	Lake Eyre Basin Bioregional Assessments	EGD			
		1293	Northern Inland Catchment Bioregional Assessment	EGD			
		1291	Groundwater and Energy	EGD			
		1404	Enhanced Hydrogeophysical Mapping	EGD			
		1402	Groundwater-Surface Water Interactions	EGD	Release the 2015-16 edition of the national surface water product to support water forecasting by the Bureau of Meteorology	Surface Water foundation spatial datasets meet legal and policy needs of the Water Act 2007 and the National Climate Change Adaptation Framework (100%)	
		1400	Geodynamics of Groundwater Systems	EGD			
		1401	Enhancing Groundwater Science with Computational Tools and Data	EGD			
		1403	Assessment of Remote Sensing Technologies	EGD			
		1287	Groundwater Business Coordination	EGD			
		1197	Groundwater Science Leadership	EGD			
		1476	Regional Groundwater Assessments in Northern Australia	EGD			
		1478	Broken Hill Managed Aquifer Recharge (BHMAR) Phase 4	EGD			
	1479	Ord - Bonaparte	EGD				
	1483	Earth Observation products for Groundwater Assessments	EGD	Delivery of updated water observations providing a multi-temporal coverage of Australia from 1987 to 2015			
	3.3 Improve the quality and reliability of elevation and surface water information to support forecasting of water flows.	1176	Elevation Data Stewardship for Murray Darling Basin Authority	EGD			
		1282	Surface Water Custodianship	EGD	Release the 2015-16 edition of the national surface water product to support water forecasting by the Bureau of Meteorology	Surface Water foundation spatial datasets meet legal and policy needs of the Water Act 2007 and the National Climate Change Adaptation Framework (100%)	
		1398	Surface Water Collaboration	EGD	Release the 2015-16 edition of the national surface water product to support water forecasting by the Bureau of Meteorology	Surface Water foundation spatial datasets meet legal and policy needs of the Water Act 2007 and the National Climate Change Adaptation Framework (100%)	
	Managing Australia's Marine Jurisdictions	4.1 Define and maintain an authoritative representation of Australia's maritime boundaries.	1168	Improved Maritime Governance to the Pacific Island Countries	EGD		
1169			Advice on the Framework of Australia's Maritime Boundaries	EGD	Release the 2015-16 edition of Australia's maritime boundaries	Authoritative representations of Australia's maritime boundaries are accessible via the interactive mapping platform (90%)	
4.2 Build knowledge to inform the sustainable development of marine resources and management of marine ecosystems.		1192	Darwin Harbour Seabed Mapping	EGD	Provision of high resolution seabed mapping datasets and post survey report to the Australian Government and other stakeholders for the Darwin Harbour marine survey.	Public availability of the Darwin Harbour bathymetry dataset and marine survey report via GA's website.	
		1485	Gippsland Seismic Noise impacts study	EGD			
		1486	National Environmental Science Program (NESP) Marine Biodiversity Hub Projects	EGD	Delivery of research products describing marine biodiversity assets in key areas of the marine estate as part of the National Environmental Science Programme Marine Biodiversity Hub.		
		1487	Lord Howe Rise Integrated Ocean Drilling Program (IODP) Marine survey	EGD			
		1514	Environmental Geoscience for Acreage Release	EGD			
4.3 Provide authoritative, independent information and advice to the Australian Government and other stakeholders on marine environmental assets and Australia's		1189	Marine Resource Advice	EGD	Provision of information and advice to the Australian Government and other stakeholders on marine environmental assets and Australia's Antarctic Territory		
		1377	National Earth and Marine Observations (NEMO) Science Advice	EGD			

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	Antarctic Territory.	1286	Antarctic Geoscience Program and Advice	EGD	Delivery of the Casey Station seabed bathymetry dataset and marine survey report on the Australian Antarctic Territory	Public availability of the Casey Station bathymetry dataset and marine survey report via GA's website.	
					Provision of information and advice to the Australian Government and other stakeholders on marine environmental assets and Australia's Antarctic Territory		
Providing Fundamental Geographic Information	5.1 Build and implement Foundation Spatial Data Framework to deliver reliable representations of the geography of Australia.	1172	Built Environment Geographic Information	EGD	Population of National Map and interactive mapping platforms with updated digital topographic maps, base maps, and foundation spatial data products		
		1175	Elevation Custodianship	EGD	Release the 2015-16 edition of Australia's national digital elevation model Population of National Map and interactive mapping platforms with updated digital topographic maps, base maps, and foundation spatial data products	National elevation and vertical obstacle products comply with Civil Aviation Regulations (100%)	
		1184	Earth Observation Products for Land Cover	EGD			
		1283	Foundation Products and Services	EGD		Foundation Spatial Data Framework products are accessible through National Map and interactive mapping platforms (60%)	
		1185	Shallow Water Bathymetry	EGD			
		1284	Geospatial Systems Architecture Development	EGD			
		1170	National Geospatial Information Coordination	EGD			
		1527	Foundation Spatial Data Framework (FSDf) Programme Management Office	EGD			
		1481	National Vertical Obstructions	EGD	Delivery of updated aeronautical navigation charts and vertical obstacles information to Airservices Australia	National elevation and vertical obstacle products comply with Civil Aviation Regulations (100%)	
		1488	Marine and Earth Observation Data Management and Delivery	EGD	Delivery of land surface observations from Landsat-7 and Landsat-8 satellites (sits under 'Maintain Geoscience Knowledge and Capability' in plan)		
		1526	Bathymetry Custodianship	EGD	Population of National Map and interactive mapping platforms with updated digital topographic maps, base maps, and foundation spatial data products		
		1265	Cartographic Services	Corp			
	5.2 Champion the use of location information for government and community decision making.	1173	Crisis Co-ordination Centre (CCC) Geospatial Support and Advice	EGD	Provide mapping services and support to the Australia Government's Crisis Co-ordination Centre.	Respond to requests for geospatial information to the Australian Government Crisis Coordination Centre within 2 hours between October and March (90%)	
		1281	Aeronautical and Location Support	EGD			
		1378	National Map Implementation Project	EGD	Population of National Map and interactive mapping platforms with updated digital topographic maps, base maps, and foundation spatial data products		
		1469	Australian Renewable Energy Mapping Infrastructure	EGD			
		1380	Multibeam Bathymetry for MH370 Search	EGD	Provision of ocean floor mapping, data and advice to the Australian Transport Safety Bureau to support the search for missing aeroplane MH370.		
		1490	Earth Observations Advice	EGD			
		1285	Spatial Analysis and Application	EGD			
		1512	Improving National Situation Awareness (NEMP)	EGD			
5.3 Deliver national geodetic capability.	1217	Provision of National Geodetic Reference System	CSEMD		Data available from geodetic observatory networks (95%)		
	1506	Geodetic Modernisation project	CSEMD	Development of a new national time-dependent coordinate model		Develop and implement the new national datum, the Geocentric Datum of Australia 2020 (GDA20120) (Jun-16)	
	1306	AuScope Funded Very Long Baseline Interferometry (VLBI) Projects	CSEMD				
	1505	NSW Government Camden project	CSEMD				
	1179	Continuity of Earth Observation for Australia	EGD				
Maintaining Geoscience Knowledge and Capability	6.1 Operate and maintain infrastructure for geoscientific observations and analysis to support program objectives.	1482	Calibrated and quality assured Earth observation data	EGD			
		1225	Geomagnetic Observatory Operations	CSEMD		Geomagnetism data collected and added to archive (98%)	
		1226	Seismic Observatory Operations	CSEMD		Data available from the Australian Seismic Network (90%)	
		1227	Nuclear Monitoring Observatory	CSEMD		Data available from infrasound and	

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			Operations			hydro-acoustic networks (98%)	
		1311	Earth Observations from Space Observatory Operations	CSEMD	Delivery of land surface observations from Landsat-7 and Landsat-8 satellites	Scheduled satellite passes acquired (98%)	
		1312	Darwin Satellite Ground Station Operations	CSEMD			
		1540	Alice Spring Refurbishment	CSEMD	Upgrade of the Alice Springs observatory antenna		
		1231	Engineering and Applied Scientific Services	CSEMD			
		1541	NSW Coal Seam Gas (CSG) Seismic Monitoring	CSEMD			
		1318	Laboratory Services	CSEMD			
		1224	Operate Yarragadee (WA) Satellite Laser Ranging Observatory	CSEMD			
		1307	Operate Mount Stromlo (ACT) Satellite Laser Ranging Observatory	CSEMD			
		1389	Virtual Laboratories Infrastructure Project	ICTIS			
	6.2 Ensure geoscientific and geospatial data, information and collections are captured, curated and made accessible to the community for use now and into the future.	1524	CO2 Subsurface Assessment Project (COSSAP)	RD			
		1547	Stratigraphic Surface Project	RD			
		1462	Geoscience Portal Project	RD			
		1348	Data Stewardship and Analysis Support	RD			
		1200	Information Management and ICT Advice and Liaison	EGD			
		1549	Boreholes Phase 2 Project	RD			
		1249	Project Support Services	RD			
		1548	Resource Division Systems Upgrade Project	RD			
		1221	AuScope Gravity Infrastructure Project	CSEMD			
	6.3 Apply high performance computing to transform geoscience research and facilitate innovation.	1178	Australian Geoscience Data Cube Development	EGD	Delivery of enhanced capability of the Australian Geoscience Data Cube to support additional streams of satellite data		
		1495	High Performance Data (HPD)	ICTIS			
		1494	High Performance Computing (HPC)	ICTIS			
	6.4 Promote, educate and build public awareness of geoscience and its benefits.	1533	Open Day	Corp	Delivery of the National Science Week and Earth Science Week programmes, to raise awareness of geoscience in the Australian community		
		1516	Library	Corp			
		1535	Cube Visualisation and Promotion Products	Corp			
		1264	Graphic Design and Print Services	Corp			
		1266	Online Content	Corp	Delivery of geoscience education services through Geoscience Australia's Education Centre and website	Stakeholder satisfaction with the information available from GA's website (80%)	
		1517	Client Services	Corp			
		1364	Science Promotion and Visualisation	Corp	Delivery of the National Science Week and Earth Science Week programmes, to raise awareness of geoscience in the Australian community		
		1534	Bioregional Assessment (BA) Movie	Corp			
	6.5 Provide a functional national repository of offshore petroleum data and samples	1245	Client Services	RD			
		1246	National Offshore Data and Core Repository (NOPDCR)	RD			
		1346	Digital and Physical Collections	RD			
		1407	National Offshore Petroleum Information Management System (NOPIMS)	RD	Full implementation of the National Offshore Petroleum Information Management System		Implementation of National Offshore Petroleum Information Management System (NOPIMS) (Nov-15 and Jun-16)
Enabling Services and Business Support	7.1 Enabling Services and Business Support	1252	ICT Project and Portfolio Management	ICTIS			
		1253	ICT Information Services - Strategy, Work Program and Business Operation	ICTIS			
		1493	Critical Refresh and Upgrades	ICTIS			
		1267	Corporate Communications	Corp			
		1272	Geoscience Australia Learning and Development	Corp			
		1273	Program Grads and Cadets	Corp			
		1502	People and Culture - Operations	Corp			
		1275	Work Health and Safety	Corp			
		1349	Service Delivery	ICTIS			
		1351	Hardware and Telecommunications Procurement and Software Licence Management	ICTIS			
		1496	eCAT – ICT Information Services project	ICTIS			
		1353	Disaster Recovery Project	ICTIS			
		1357	Infrastructure, Gateway and Maintenance	ICTIS			
		1358	Data Architecture and Modelling	ICTIS			
		1259	Enterprise Geographic Information System (GIS)	ICTIS			

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		1360	Corporate Strategy, Work Program and Business Operations	Corp			
		1363	Intranet Redevelopment Project	Corp			
		1501	Finance Enterprise	Corp			
		1499	Finance Operations	Corp			
		1498	Governance and Business Services -Operations	Corp	Delivery of geoscience education services through Geoscience Australia's Education Centre and website		
		1518	Defence Imagery and Geospatial Organisation (DIGO) Map Service Level Agreement (SLA)	Corp			
		1500	Geoscience Australia - Enterprise	Corp			
		1254	Infrastructure Operational Support	ICTIS			
		1257	Scientific Computing and Systems Engineering	ICTIS			
		1508	Program Management Office	ICTIS			
		1509	Cloud Readiness and Delivery	ICTIS			
		1510	Capability Enablement	ICTIS			
		1511	Architecture and Assurance	ICTIS			
		1386	Data Platforms	ICTIS			
		7.2 Enterprise Property	1497	Property Services Enterprise	Corp		
		1537	Childcare Centre	Corp			
	7.3 Divisional Management and Support	1248	Resource Division Strategy, Work Program and Business Operations	RD			
		1321	Community Safety and Earth Monitoring Division Strategy, Work Program and Business Operation	CSEMD			
		1199	Environmental Geoscience Division Strategy, Work Program and Business Operations	EGD			
		1375	Office of the CEO	Exec			
	1504	Science Evaluation Program	Exec				