

Department of Natural Resources and Mines Open Data Strategy

April 2017 update

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Introduction

The Department of Natural Resources and Mines (DNRM) supports the responsible use of our natural resources - water, land, minerals and energy - to sustainably generate prosperity for current and future generations of Queenslanders.

In delivering this vision, the department acquires extensive information related to the State's land, natural resources and mining activities. The information held by the department supports four business objectives:

- Sustainable management of Queensland's land and water resources;
- Responsible use of our minerals and energy resources;
- Accurate, timely knowledge of our property and spatial information resources;
- Great services, great place to work.

The department published its initial Open Data Strategy in May 2013 and updated the strategy in 2014. This strategy was based on a comprehensive audit of information held by the department and a best assessment of when it was likely the department could assign resources to making data accessible online and available through the Queensland Government Open Data Portal (<https://data.qld.gov.au>).

Since the last update, the department has continued to increase the number of data sets available and has completed a new audit, to identify if any datasets that were missed initially and to ensure any new datasets have been considered for release.

This strategy sets out some ambitions the department is striving to achieve by December 2017.

While the Open Data Strategy is focused on provision of raw data, the department is also committed to provisioning its data in additional ways as required for its various customers and stakeholders. This access can be summarised in three ways:

- In online applications or publications (e.g. reports, maps) where the information is presented in easy ways for customers to use, and may include some interpretation (visualisations);
- As datasets which customers load onto their computers (downloads);
- Via direct online connection services (e.g. Open Geospatial Consortium (OGC) compliant, Representational state transfer (REST), Simple Object Access Protocol (SOAP) web services) where the customer does not wish or need to store the data (web-services).

The department remains committed to the provision of meaningful information about the data resource itself (metadata and catalogues). The aim is for users to be better informed so they can make judgements regarding the data's fitness for their specific purpose. Information provided can include explanations of codes and abbreviations used internally and shown in the data resource, the date of capture, any known accuracy, completeness or quality limitations. It is also important to ensure the dataset or data resource name is informative, particularly where they relate to or are instruments of law.

The department continues to believe that providing maximum access to information that it holds assists in contributing to an accountable, open and transparent government and assists individuals and businesses to implement streamlined approaches to their interests and activities.

The information provided in this updated strategy is based on the status of dataset publishing at 4 November 2016.

Information responsibilities and governance

The department collects and manages an extensive and diverse range of information to enable it to deliver its responsibilities. The information consists of statistical analysis related to activity levels, information describing the geography of Queensland, information in registries which secure rights to land and natural resources and mine safety and health records.

To meet government and department data management requirements, the department uses a structured approach.



At the highest level, the information managed by the department is grouped in the following 38 data themes.

- Administrative boundaries
- Built environment
- Cadastre
- Catchment programs
- Coal seam gas
- Compliance
- Corporate
- Drainage
- Elevation
- Explosives safety and health
- Extractive resources
- Geoscience and exploration
- Historic mine sites
- Imagery
- Indigenous land
- Integrated foundation spatial information
- Mine safety and health
- Mining statistics
- Mining tenure administration
- Native title
- Occupational health and safety
- Petroleum and gas safety and health
- Place names
- Positioning infrastructure
- Property address
- Property sales
- State control survey
- State land
- Strategic cropping land
- Titles registry
- Transport
- Underground water impact monitoring
- Valuations
- Vegetation management
- Water billing
- Water entitlements
- Water management
- Water monitoring

The department manages its data through the assignment of the data custodian role to senior level positions in the department – Executive Director or equivalent for each of the data themes. The data custodians have responsibility to:

- Ensure the quality and integrity of the data to appropriate standards;
- Engage with users to understand data improvement and coverage needed;
- Ensure the ongoing capacity to manage and make accessible the data;
- Provide appropriate discovery and access arrangements.

For data acquired from other parties and used by the department, the custodianship approach is applied to ensure accountability continues related to data currency and honouring licence arrangements under which the information is acquired.

This governance framework provides clear accountability for senior executives to consider specific customer and stakeholder feedback resulting from the department's Open Data Strategy.

The Executive Director, Land and Spatial Information has been assigned the department champion responsibility to coordinate and progress the department's implementation of the Open Data policy.

The department will continue to review the strategy on a regular basis.

Current status

The department continues to publish and maintain data resources. The department has 214 information assets (a collection of data stored and recognised as having value for the purpose of enabling the department to perform its business functions). These information assets are aligned to each of the data themes.

The department completed an extensive audit of information resources in 2016 which identified a total of 417 datasets (212 datasets on the Open Data portal and 205 which are listed in Appendix A as datasets not released as open data). The datasets which are available openly are accessible from the Queensland Open Data portal (www.data.qld.gov.au) as well as the associated metadata (dataset details). The department has adopted the creative Commons CC-BY (4.0) licence as the default, unless other reasons exist to use a different licence.



For the 212 datasets on the Open Data portal, these contain 961 resources. A single dataset may have multiple resources (typically due to multiple years for the same data, breaking up the dataset to geographic coverages, etc).

There are seven criteria for which a dataset may not be able to be released and one or more of the criteria may apply to an individual dataset. In certain circumstances access to some of this information may be possible, particularly for government purposes. The data custodian is responsible for deciding access to 'Closed' data.

Work continues to make further data available in open formats and will continue to audit its information holdings with the purpose to identify any new datasets developed and opportunities to release further depersonalised datasets which are currently not available openly in their current form.

The department continues to foster a culture where information is released to the maximum extent possible and for this to occur naturally as part of the way the department does its business. To this end the strategy describes steps to be taken to assist custodians understand their current open data maturity.

The department continues its long standing role in leading and supporting other Queensland government departments with the creation and publishing of high quality data and metadata where that data has a spatial component.

A continued focus for the department is to improve the quality of its data, as resources permit, with activities prioritised to those bringing the greatest benefit. The processes of capture of some data have resulted in known data accuracy and completeness issues particularly when combined with other datasets.

This approach will see the department continue to proactively release data captured and collected to the maximum extent possible, in forms and manners which maximise the usefulness to all the department's customers and stakeholders. This pro-active release aims to support the widespread use of data, minimising duplicated data capture, and foster an environment for new innovative information products to be developed.

Specific ambitions to achieve by December 2017

While the department has made significant progress in moving to a culture of open data, there are three areas that are focus areas in the next nine months.

Open data maturity

Best practice indicates that organisations need to benchmark themselves against other organisations. The Open Data Institute Queensland encourages the use of the open data pathways approach. This comprehensive approach considers an organisation (or parts of organisation if chosen) from five different perspectives:

- Data management processes
- Knowledge and skills
- Customer support and engagement
- Investment and financial performance
- Strategic oversight

Given the variance in information management skills and priorities across the department, rather than just produce a department maturity, in the first instance, a maturity assessment is planned to be completed for each data custodian within the department. This approach will allow individual custodians within the department to understand where they and their business areas can seek to improve, which is expected to be different across the different custodians.

To support this, the department will seek to identify the minimum open data maturity that it will seek to achieve and provide this to custodians to guide them in developing strategies.

It is planned that these assessments will be completed for a minimum of 50% of custodians by December 2017.



Openness of data sets

DNRM have published many datasets and these continue to be of use to many customers. An area of potential improvement is to ensure that the data is published in truly open means. The Open Data Institute Queensland encourages the use of open data certificates. There are four levels (Bronze, Silver, Gold, and Platinum) that recognise the way open data is published. The criteria used in the assessment include Legal, Practical, Technical and Social considerations from a consumer's perspective.

By focussing on the dataset level this provides a mechanism to publish a badge with the dataset which is recognised worldwide, provides an independent guarantee of quality and will encourage trust and reuse of data.

It is planned to trial the certificate approach to better understand the workload involved, identify patterns which might be impacting all datasets across the department and through the trial identify a standard that the department would be aspiring to achieve. This trial will involve 10% of the departments published datasets equating to 21 datasets. The results of the trial are expected by September 2017.

Improving access to spatial data

The department continues to be a major provider of Queensland Government spatial information. In the next nine months there will be several initiatives completed assisting in making information more open.

The department believes that while the open data focus is on access to datasets, for spatial information to be truly accessible it needs to be accessible in three different ways for customers and stakeholders. These three ways are as datasets, via web services and in varying forms of visualisations. This ensures that customers and stakeholders can access in a means that suits their needs and in a way suited to their skills and capabilities. To support this customer flexibility, the department will be releasing a new version of the Queensland Globe.

In the next nine months, a key focus will be on increasing access to the vast array of spatial data available currently in the Open Data Portal via web services (machine to machine data access) aligned to international OGC standards. To support this, the department has invested in the last 12 months in the ICT infrastructure required to allow customers to utilise the spatial web services once published. It is expected that these web services will be widely used, based on the feedback the department is receiving. It is planned that 90% of the currently published spatial datasets will be available as web services by May 2017.

The department is also moving to make its historical aerial photography available. This library of photographs, dating back to the 1930's has been scanned and is now available as digital files. This occurs via an application which allows customers to search, view and download the aerial photographs.

The department has also negotiated that rectified aerial photography older than three years is now available via web services openly. The department is striving to negotiate arrangements with all providers (aerial, satellite, drone, etc) for the broadest licensing that can be afforded, thereby improving open access for what has traditionally been closed data.

Customer feedback

Feedback on this strategy, datasets published, and closed datasets continues to be encouraged. Please contact the department via email: OpenData@dnrm.qld.gov.au

Through the responsible data custodians, the needs of current and emerging customers and stakeholders will be considered. The department will continue to support data users to better understand the data it holds.

Appendix A – Datasets not released

The department has assessed all data it holds and a number are not able to be released for one or more reasons. These include:

- **Privacy** – The data includes personal information
In some datasets, personal information is contained and at this time no logical aggregation of this information has been identified, so that information in a de-personalised manner can be made available without the risk of breaching privacy. Some of this information is held in public registers and is only able to be released on a single record basis as required by legislation in the form of a search. In the case of some property valuation and sales data with personal details, it is only able to be supplied as a dataset where the customer has become a subscriber to the Personal Identification Information in Property Data Code of Conduct <http://www.propertydatacodeofconduct.com.au/ttsvr/home>. This requires the customer to enter into a specific licence and to pay an appropriate fee to access the dataset.
- **Intellectual Property (IP) or Confidentiality** – The data is owned in whole or part by others, the data is subject to restricted licence conditions, the data is commercial-in-confidence, the data is culturally sensitive, the data is legally privileged.
Often the department acquires data from other parties for use in business activities. The acquired data is provided with licence conditions, and generally does not permit the department to release this information. The department also receives some information in accordance with legislation that requires the department not to release the information for specified time periods and after these time periods the information becomes available.
- **Revenue** – A revenue stream is associated with the data or a funding subscription model is in place to support data acquisition
There are a number of datasets which while accessible in various forms (e.g. property searches, data files, etc) are not available freely or with an open licence. In some cases this is due to the amount of revenue generated to support government activities. In other cases, the ongoing data capture programs to maintain the currency of the datasets (e.g. aerial photography) rely on subscription models to assist in funding the capture programs. While the data resources are not available initially for free, after a number of years they may be released as open data resources.
- **Public Safety or Security** – release of the data presents a public safety or security risk
Some of the data that is required to be submitted to the department contains information that if released could result in a risk to public safety or security. At this time no logical aggregation of this information has been identified, so that the information can be provided in a form removing the risk to public safety or security.
- **Release would breach statutory or legislative requirements**
There is information held by the department for which specific statutory or legislative provisions govern its release. In these cases the department is unable to release this information unless statutory or legislative frameworks are modified.
- **Alternative Source** – The data is available elsewhere as open data
Some of the data held by the department is available from other sources, typically other levels of government, in open manners. One such example is where the native title information for all of Australia is available from the National Native Title Tribunal. The department believes that where up-to-date information is available from other sources in open manners, then effort is not warranted in duplicating these access arrangements.
- **Current Technical Limitations** – These are very large datasets and the department does not yet have a strategy for how to release on-line as data sets
Some data held by the department is very large in size. This data is typically available from the department using portable hard drives, but the infrastructure to make the information available on line has not yet been established. The department is working towards having infrastructure available that would permit online access to the information, but timeframes for when this will be achieved are not finalised.

Data Theme	Dataset Title	Privacy	IP or Confidentiality	Revenue / Funding subscription model	Public Safety or Security	Release would breach statutory or legislative requirements	Data already available from an alternative open access source	Current technical limitations prevent release
Cadastre	Survey Plan Index			✓				
Catchment programs	Regional NRM Profiles						✓	
Coal seam gas	Coal Seam Gas Environment Testing and Monitoring data	✓						
	Client relationship management - CSGCU-EMS	✓	✓		✓			
Compliance	Compliance Information	✓	✓		✓	✓		
Corporate	Financial Capability online training	✓						
	Financial management register		✓					
	Aurion	✓						
	CUDOS	✓						
	ePlan	✓						
	GoCat	✓						
	Tableau	✓						
	Internal Costing - MIS	✓						
	Job Tracking Register - MIS	✓						
	Staff Attendance - MIS	✓						
	Staff Register - MIS	✓						
	Time Tracking Register - MIS	✓						
	Planning case tracking and advice	✓						
	EAS usage including reasons for usage	✓						
	Incident reporting	✓						
	Rehab cases	✓						
	Risk/Hazard reporting	✓						
	WorkCover claims	✓						
	CAPE (including trending data)	✓						
	Case management	✓						
Digital customer registrations	✓							
Drainage	Flood animations						✓	
	Flood maps						✓	
	Flood reports						✓	
Elevation	Contours - 10 metre - Queensland border series		✓				✓	
	Contours-0.25 metre (acquired from other party)		✓					
	Digital elevation model - downgraded data							✓
	Digital Elevation Model-1 metre			✓				
Explosives safety and health	Explosive Authorisation and Trials	✓	✓		✓	✓		
	Explosives Compliance	✓	✓		✓	✓		
	Explosives Emergency Response	✓	✓		✓	✓		
	Explosives Licence	✓	✓		✓	✓		
	Explosives Management	✓	✓		✓	✓		
	Explosives Notifications	✓	✓		✓	✓		

Data Theme	Dataset Title	Privacy	IP or Confidentiality	Revenue / Funding subscription model	Public Safety or Security	Release would breach statutory or legislative requirements	Data already available from an alternative open access source	Current technical limitations prevent release
	Explosives Reserve Management	✓	✓		✓	✓		
	Explosives Safety	✓	✓		✓	✓		
Extractive resources	Quarry Rock Resource		✓					
	Sand and Gravel Resource		✓					
Geoscience and exploration	Aerial Geophysical Survey (External)-Commercial		✓			✓		
	Airborne Hyperspectral Survey-Commercial		✓			✓		
	Borehole-Commercial		✓			✓		
	Coal Resource-Commercial		✓			✓		
	Exploration Geochemistry						✓	
	Exploration Geochemistry-Commercial		✓			✓		
	Geological Material-Commercial		✓			✓		
	Geological Site-Commercial		✓			✓		
	Gravity Reading-Commercial		✓			✓		
	Hyperspectral Sample Scanning						✓	
	Land Use Planning		✓					
	Mineral Resource-Commercial		✓			✓		
	Petroleum Production-Commercial		✓			✓		
	Petroleum Reserves-Commercial		✓			✓		
	Seismic Survey-Commercial		✓			✓		
Historic mine sites	Abandoned Mine Land Site Assessment	✓	✓		✓			
	Mine Workings-Charters Towers	✓	✓					
	Mine Workings-Gympie Shaft Repair	✓	✓					
	Mine Workings-Ipswich and Darling Downs	✓	✓					
Imagery	Aerial Photography (not rectified)-Acquired from other party		✓					
	Ortho rectified imagery-Acquired from other parties		✓					
	Ortho rectified imagery-DNRM Acquired			✓				✓
	Ortho rectified imagery-SIP program acquired - less than 3 yrs old		✓	✓				✓
	LiDAR Point cloud - classified			✓				
	LiDAR Point cloud - unclassified			✓				
	LiDAR Point cloud-project data-classified		✓					
	LiDAR Point cloud-project data-unclassified		✓					
	SPOT 2009		✓					
	SPOT 2012		✓					
SPOT 2013-2015		✓						
Indigenous land	Claimed Land						✓	
	Corporations						✓	
	Granted Land						✓	
	Land Trust (ALA)						✓	
	Land Trust (TSILA)						✓	

Data Theme	Dataset Title	Privacy	IP or Confidentiality	Revenue / Funding subscription model	Public Safety or Security	Release would breach statutory or legislative requirements	Data already available from an alternative open access source	Current technical limitations prevent release
	Shire Council						✓	
	Transferable Land - DOGIT						✓	
	Transferable Land - National Park						✓	
	Transferable Land - Reserve						✓	
	Transferable Land - Unallocated State Land						✓	
	Transferred Land						✓	
	Claimable Land		✓					
	Creations of Interest		✓					
	Indigenous Expressions of Interest		✓					
	Land Claims Associations		✓					
	Land Claims Register		✓					
	Land Trust Registry					✓		
	Reserves, DOGITS, Aboriginal Land Leases		✓					
	Transferable Land		✓					
Mine safety and health	Online course bookings	✓	✓					
	ChemAlert	✓	✓					
	Coal Mine Workers Health Scheme	✓				✓		
	Dust monitoring	✓	✓					
	Electrical Equipment Certification	✓	✓					
	Explosion and Fire Research Result		✓					
	Explosion and Fire Testing and Consulting Result		✓					
	General Safety and Health Investigation Result - Mines		✓					
	Incidents (Form 1A) database		✓					
	Mine Condition Monitoring	✓	✓			✓		
	Mine Emergency Response	✓	✓			✓		
	Mine Incident/Accident	✓	✓			✓		
	Mine Safety Training	✓	✓			✓		
	Mine Worker Health Research	✓	✓			✓		
	Mines and Explosives Levy (MELD)	✓				✓		
	Mines/Quarrying Safety Audit/Inspection	✓	✓			✓		
	Mining and Quarrying Certificate of Competency (Metalliferous)	✓				✓		
	Mining and Quarrying Site	✓				✓		
	Mining Certificate of Competency (Coal)	✓						
	Mining Safety and Health Complaint	✓	✓			✓		
	Petroleum and Gas Fee (PAGFee)	✓				✓		
	Petroleum and Gas Ops (P&G Ops)	✓	✓			✓		
	Trainee course attendees	✓	✓					
Quality & Safety Management System	✓	✓						
Project Management data	✓	✓						
Training record database	✓	✓						

Data Theme	Dataset Title	Privacy	IP or Confidentiality	Revenue / Funding subscription model	Public Safety or Security	Release would breach statutory or legislative requirements	Data already available from an alternative open access source	Current technical limitations prevent release
	SHIELD	✓	✓			✓		
	Financial Records Management	✓	✓					
	Data used for transfer FTP	✓	✓					
Mining tenure administration	Mining administration-Mining Native Titles	✓	✓				✓	
	Mining administration-Restricted Areas	✓						
	Mining and Exploration Tenure Register		✓					
	Mining and exploration tenure rent		✓			✓		
	Mining permit register-Discontinued Acts Permits	✓			✓			
	Mining permit register-Geothermal Energy Act 2010 Permits	✓			✓			
	Mining permit register-Greenhouse Gas Storage Act 2009 Permits	✓			✓			
	Mining permit register-Mineral Resources Act 1989 Permits	✓			✓			
	Mining permit register-Petroleum and Gas Act 2004 and Petroleum Act 1923 Permits	✓			✓			
	Survey Plan - Mines			✓				
Native title	Indigenous land use agreements dataset						✓	
	Native Title Acquisition Register		✓					
	Native Title Applications Dataset		✓				✓	
	Native Title claims		✓				✓	
	Native Title Conclusions of Extinguishment		✓					
	Native title determinations		✓				✓	
	Native Title Representative Bodies Data						✓	
Occupational health and safety	Native Title Research Register		✓					
	Combustible Dust Testing and Consulting Result	✓	✓			✓		
	Mining and Quarrying safety alerts and bulletins				✓			
Petroleum and gas safety and health	Occupational Health Monitoring Result	✓	✓			✓		
	Authorisations management database	✓				✓		✓
	Gas Certificates and plates register	✓						✓
	Licensing management database	✓				✓		✓
	Investigations database	✓	✓			✓		
Positioning infrastructure	Regulatory activities database	✓				✓		
	Satellite Positioning Observation-Post processed						✓	
Property sales	Satellite positioning Observation-Real Time			✓				
	Property Sales (excluding personal details)			✓				
	Property Sales (with personal details)	✓		✓				
State control survey	Valuers analysis to determine and value	✓	✓		✓			
	Permanent Mark Sketches Imagery			✓				
State land	Decisions and conditions of offer							✓

Data Theme	Dataset Title	Privacy	IP or Confidentiality	Revenue / Funding subscription model	Public Safety or Security	Release would breach statutory or legislative requirements	Data already available from an alternative open access source	Current technical limitations prevent release
	Government owned property-real property details	✓	✓	✓				
	Historical Land Tenure Register - LTL - SLAM	✓	✓			✓		
	Land Asset Register - LAMS				✓			
	Land Tenure Ledger Invoices - LTL	✓	✓			✓		
	Lease rental-debtor details	✓	✓			✓		
	Leases, licences and permits - eLVAS	✓						
	State Rural Lease Land Strategy (SRLR) - LARIE	✓	✓					
	Stock routes Queensland-Web service						✓	
	USL Fire and Pest Management Plans - LARIE USL				✓			
Titles registry	Titles Register - Foreign ownership	✓	✓	✓	✓			
	Titles register - Power of Attorney	✓	✓	✓				
	Titles register - Register of Plantation Licences		✓	✓				
	Titles register-Freehold land	✓	✓	✓				
	Titles register-Leasehold land	✓	✓	✓				
	Titles register-Other imaged documents (e.g. CMS)	✓	✓	✓				
	Titles register-Other tenure types	✓	✓	✓				
	Titles register-Reserves		✓	✓				
	Titles register-Survey plans		✓	✓				
	Titles register-Unallocated state land		✓	✓				
	Titles register-Water allocations	✓	✓	✓				
Underground water impact monitoring	Baseline assessment	✓	✓			✓		
	Bore Assessment	✓	✓			✓		
	Monitoring bore data - water pressure	✓	✓					
	Monitoring bore data - water quality	✓	✓					
Valuations	Valuation Objector/Landholder information	✓	✓		✓	✓		
	Land Classifications and Bases Index							✓
	Transaction history of Valuation Property records	✓	✓		✓			
	State Valuation Estimates - MIS	✓	✓			✓		
	Comprehensive Valuation Roll	✓	✓	✓	✓			
	Crown rental valuation	✓	✓		✓			
	Landholder Contact Register	✓	✓	✓	✓			
	Online Valuation listing		✓					
	Valuation Dataset	✓	✓	✓	✓			
	Valuation Roll (excluding personal details)			✓				
Valuation Roll (with personal details)	✓		✓					
Vegetation management	Maps for individual Property Maps of Assessable Vegetation, Regrowth Notifications and other notifications and permits- eLVAS		✓					

Data Theme	Dataset Title	Privacy	IP or Confidentiality	Revenue / Funding subscription model	Public Safety or Security	Release would breach statutory or legislative requirements	Data already available from an alternative open access source	Current technical limitations prevent release
Water entitlements	Unallocated water tenders-statistics by release process	✓	✓			✓		
Water management	Riverine Protection Permit (RPP) Information	✓						
	Category 1 Officers	✓	✓			✓		
	Category 2 Officers	✓	✓			✓		
	Delegation competency register-Planning Act level A	✓	✓			✓		
	Delegation competency register-Planning Act level B	✓	✓			✓		
	Delegation competency register-Water Act level 1	✓	✓			✓		
	Delegation competency register-Water Act level 2	✓	✓			✓		
Water monitoring	Groundwater Monitoring-Bore General Notes	✓	✓					
	Groundwater Monitoring-Bore Licensed Drillers	✓						
	Surface Water Monitoring-River heights (client data)		✓		✓	✓	✓	
	Surface Water Monitoring-Site photos						✓	
	Water Scheme Operator Reporting - Resource Operation Licence Annual Reports		✓					
	Water Scheme Operator Reporting - Resource Operation Licence Quarterly Reports		✓					
	Water Monitoring Information - Hydstra						✓	



Visit the Queensland Government Open Data Portal:

<https://data.qld.gov.au>

To provide feedback on the department's Open Data Strategy:

Email: opendata@dnrm.qld.gov.au