A geologist wearing a green hat, a tan shirt, blue trousers, and a red backpack is standing next to a large, layered rock face. He is holding a small object in his hands and looking down at it. A yellow measuring tape is visible on the rock face above him.

## Six things you need to know about geoscience information and delivery in 2016-17

Tracey Rogers



NORTHERN TERRITORY GEOLOGICAL SURVEY

# AGES2017

ANNUAL GEOSCIENCE EXPLORATION SEMINAR  
Alice Springs, 28–29 March 2017, Northern Territory

# The six things..

1

- A century of mineral exploration reports online

2

- New exploration drilling and geochemical data

3

- Updates to online systems

4

- Australian Geoscience Information Network  
AUSGIN


5

- nt.gov.au and Department of Primary Industry and  
Resources (DPIR) websites

6

- New NTGS products

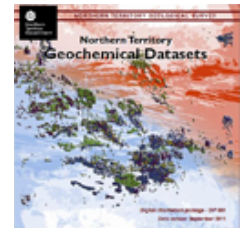
# 1. A century of mineral exploration reports online

- Industry reports index (IRMS) launched in 1999
    - Metadata records only
    - Later renamed MEX
  - At GEMIS launch in March 2014
    - 18,093 report metadata records in the MEX collection
    - 8,897 with downloadable reports and data (1995 to 2014)
  - Last 12 months
    - 1978 to 1901 reports added
    - closed file reports received 2001 to 2005 have been released under the five year sunset clause of the Mineral Titles Act
-  February 2017 – all open file mineral reports online  
Nearly 23,000 metadata records



## 2. New exploration drilling and geochemical data

- Data validation on incoming data improved
- Capture of drilling and geochemistry data from all current titles
  - 5037 reports for 2205 titles to review (as at October 2016)
  - 83% completed
- Most data is closed file; includes some duplicates
- When project is completed, open file data will be reviewed, duplicates removed and data released
- Benefits
  - Ongoing, sustainable database growth
  - increasing comprehensiveness
  - data will be routinely open filed



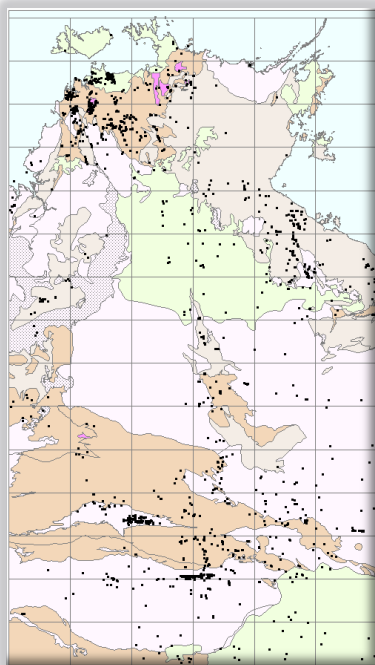
# Geochemistry and drilling – database status

As at 23 March

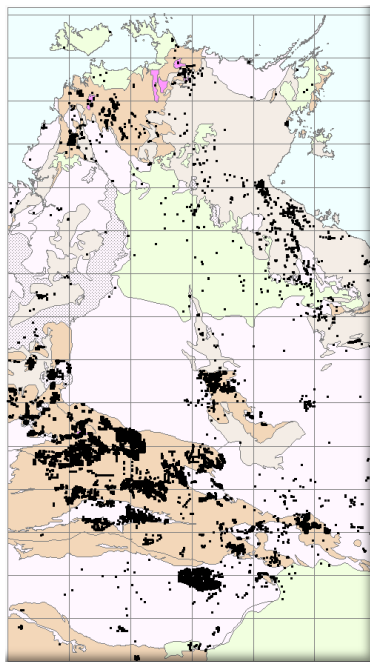
Data Type	Available data	New data capture
Drill hole collars	120,228	61,618
Drill samples	295,856	1,356,486
Surface samples	203,360	164,855



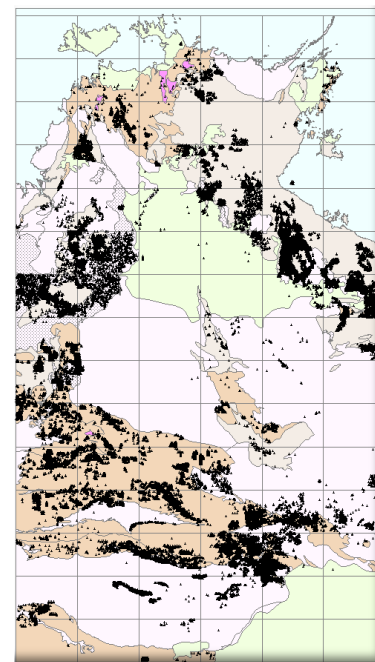
~3030 COREDAT  
drill holes



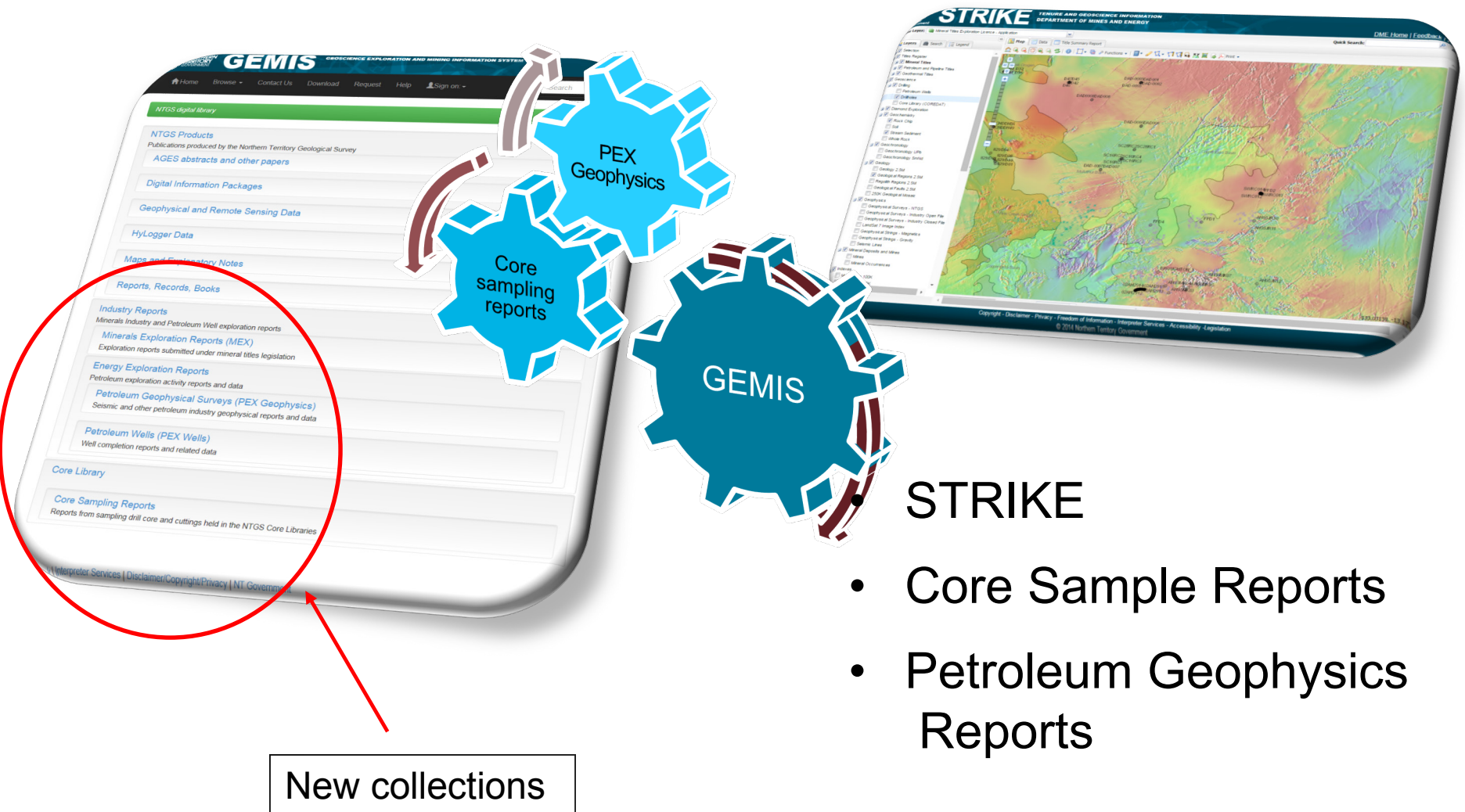
>120,000 drill holes



>208,000 surface  
samples



### 3. Updates to online systems



# STRIKE – [strike.nt.gov.au](http://strike.nt.gov.au)

- Updated layers
  - Link to PEX Wells in GEMIS from Petroleum Wells layer
  - Drilling and geochemistry layers – cleansed, updated attributes, duplicates removed
  - Seismic lines layer – new attributes
- Restructure and renamed layers
  - Renaming eg Geology maps and data to NTGS Products (includes geophysical data); Historical Relinquished Areas to Partial Surrenders and Reductions
  - Industry reports category and renamed minerals reports index layer
- New layer and functionality
  - Aerial photography now in slider; Aster imagery restored
  - New layer: Local Government Areas

# STRIKE – Open file mineral reports

Active layer

**NORTHERN TERRITORY GOVERNMENT**

# STRIKE

TENURE AND GEOSCIENCE INFORMATION  
DEPARTMENT OF PRIMARY INDUSTRY AND RESOURCES

Feedback | DPR Home | Help

Active Layer: **Open File Mineral Reports**

Quick Search:

Search

Help – downloads

**Layers**

- Selection
- Titles Register
  - Mineral Titles
  - Petroleum and Pipeline Titles
  - Geothermal Titles
- Drilling
- Diamond Exploration
- Geochemistry
- Geochronology
- Geology
- Geophysics
- Mineral Deposits and Mines
- Indexes
- Industry Reports
- Open File Mineral Reports**
- Administrative Boundaries
- Graticules and Blocks
- Land Information
- Geophysical Imagery
  - Gravity**
  - Gravity Hipass
  - Magnetic TMI
  - Magnetics Vertical Derivative
  - Magnetic Depths
  - Thorium
  - Potassium
  - Uranium
  - U2Th ratio

**Identify (5)**

Title ID	Reports	Grant Date	Cessation Date	Title status	Holder	Link to Report/s
EL28609	CR2014-0636, CR2013-0886, CR2012-0870	15/09/2011	20/10/2014	Historical	AUSTRALIAN MANGANESE RESOURCES PTY LTD	<a href="#">report</a>
EL7261	CR1999-0122, CR1998-0453, CR1998-0219, CR1996-0653, CR1996-0506, CR1996-0489	24/05/1991	23/05/1997	Historical	ASHTON MINING PTY LTD	<a href="#">report</a>

Page 1 of 1 | 20 Items per page | Filter

Scale 1: 2,558,487 | Map | Active Geophysical Imagery Aerial Photography: (-)

Copyright, disclaimer and privacy | Accessibility | Freedom of Information | Interpreter Services | Legislation  
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# Core sample reports (CSR) Database

- The CSR database captures reports about samples from drill core that is held in the NTGS Core Facilities
- CSR does NOT capture reports and data on analyses from core prior to submission to the NTGS core store
- Now migrated to GEMIS
  - 308 reports



# PEX Geophysics

- Now available on GEMIS 
- 456 records of reports and associated data files for seismic and other geophysical surveys
- Some data available for download, more will be made available in coming months
- Includes:
  - Operational reports
  - Interpretation reports
  - Support data and reports
  - Some data (files <1GB)

# 4. Australian Geoscience Information Network AUSGIN

## [www.geoscience.gov.au](http://www.geoscience.gov.au)

Discovery portal for geoscience from all state, territory and federal governments

- Geoscience Portal for geoscience maps and data, the National Virtual Core Library
- National view of current mineral titles
- the national Geophysical Archive Data Delivery System (GADDS)
- Web services and data standards
- National reporting guidelines
- Links to all Australian geological surveys
- Minerals Australia for investment information

**AUSGIN AUSTRALIAN GEOSCIENCE INFORMATION NETWORK**

GEOSCIENCE PORTAL | GEOPHYSICAL DATA DELIVERY | AUSTRALIA MINERALS | WEB SERVICES | DATA STANDARDS | ONLINE MAPPING | ABOUT US

**GEOSCIENCE PORTAL**  
Data discovery and analysis portal for geoscience data from all of Australia's state, territory and federal governments. Includes 1 250 000 scale scanned geological maps.  
[Enter portal](#)

**GEOPHYSICAL DATA DELIVERY**  
Discover and download magnetic, radiometric, gravity, and digital elevation data from over 4000 geophysical surveys in Australia, and national scale geophysical grids.  
[Download data](#)

**AUSTRALIA MINERALS**  
Information for mineral explorers and investors in Australia, including business and investment advice, legislative guidelines, and reporting requirements and processes.  
[Visit site](#)

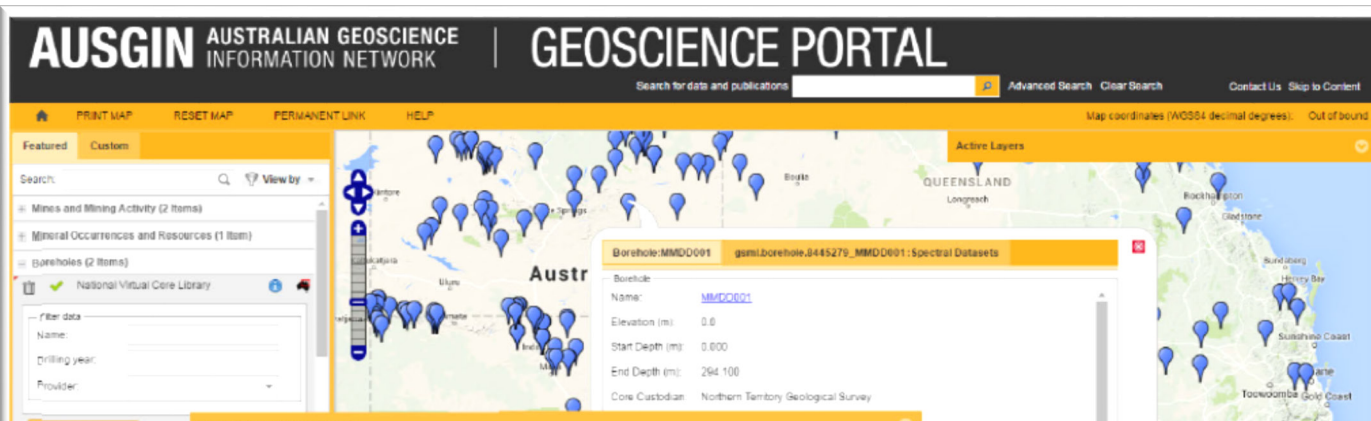
**WEB SERVICES**  
Discover Web Map Services and Web Feature Services published by State, Territory, and Federal agencies.  
[More information](#)

**DATA STANDARDS**  
Australian and international standards for delivery and sharing of geoscientific data.  
[More information](#)

**ONLINE MAPPING**  
Discover online GIS and data download systems provided in each State, Territory and Federal jurisdiction.  
[More information](#)

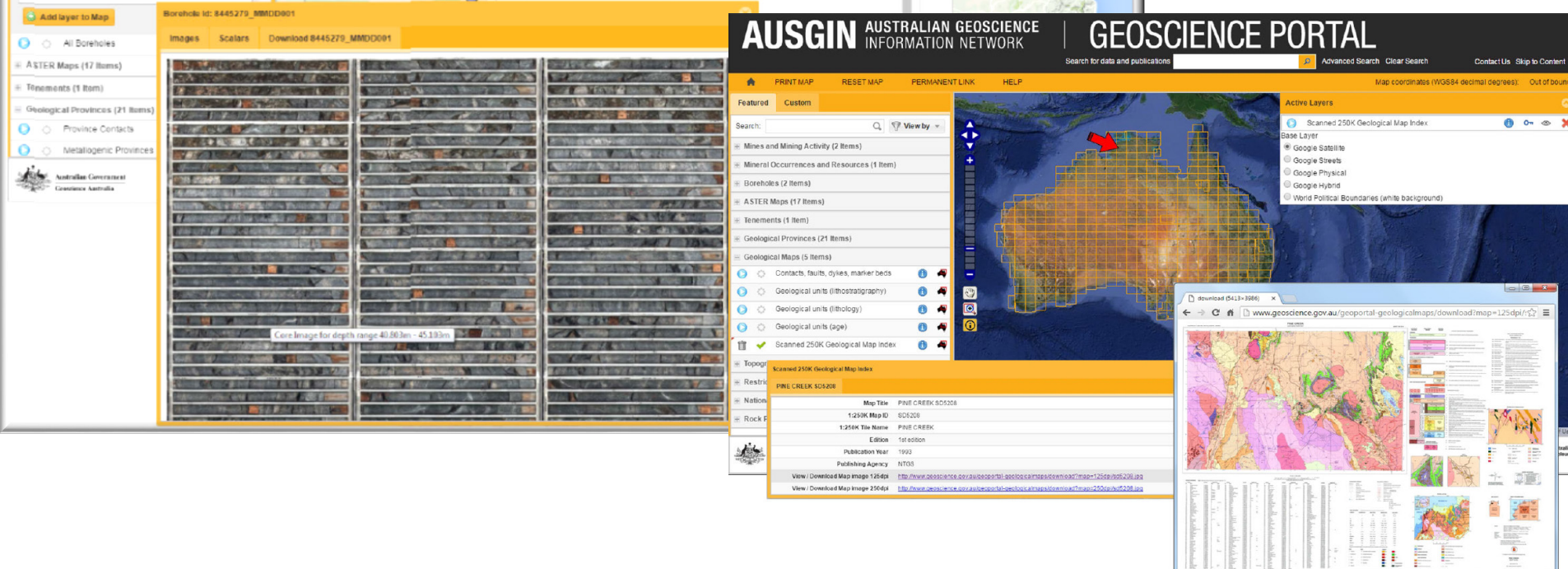
**Footer:** Australian Government, Government of South Australia, Department of State Development, Department of Industry, Resources & Energy, Northern Territory Government, Queensland Government, Tasmanian Government, Victoria, Government of Western Australia, Department of Mines and Petroleum.

# NVCL and 1:250,000 geological maps



NVCL

1:250,000 scale  
geological maps



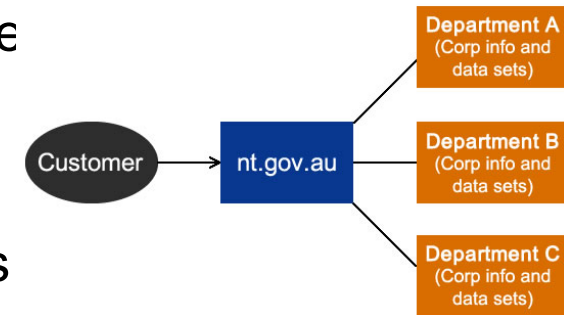


# 5. nt.gov.au and Department of Primary Industry and Resources (DPIR) websites



## Centralising public facing content

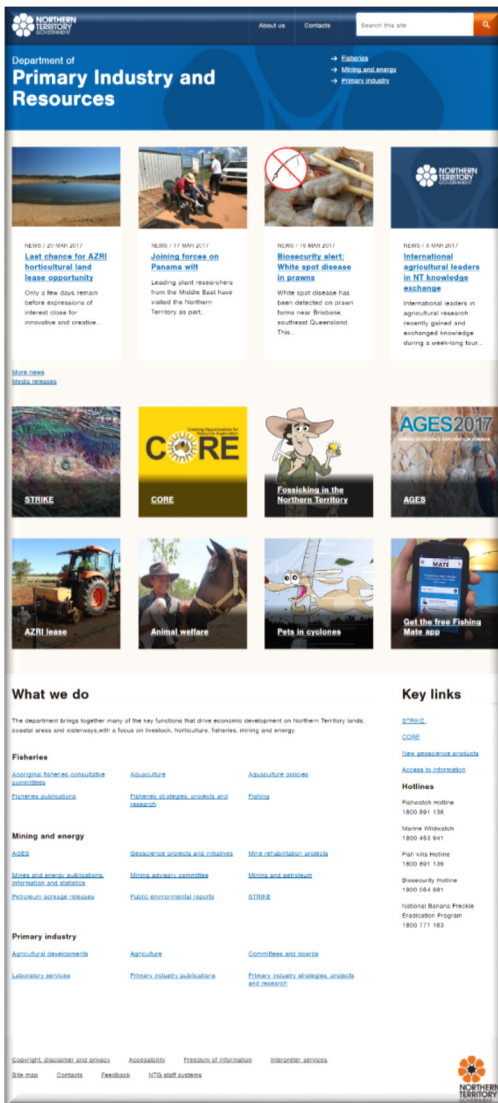
- nt.gov.au – one central website
- Simple, plain English
- Content organised by topic
- Easy to use on mobile devices
- Effective search engine



## New department sites

- corporate information such as annual reports, project and campaign information, consultations
- and ...information for professionals eg researchers and scientists

# DPIR and NTGS websites



## Geoscience projects and initiatives

### Geophysical acquisition

### Geophysics and Drilling Collaborations

### Joint geoscience projects

### National Virtual Core Library NT

### New geoscientific product releases

### NTGS geoscience projects



**[www.minerals.nt.gov.au/ntgs](http://www.minerals.nt.gov.au/ntgs) - NTGS projects, Geophysics and Drilling Collaborations, AGES, new product releases**

**[www.core.nt.gov.au](http://www.core.nt.gov.au) – resource information, CORE posters, factsheets, investment opportunities**

# Where to find information on the websites

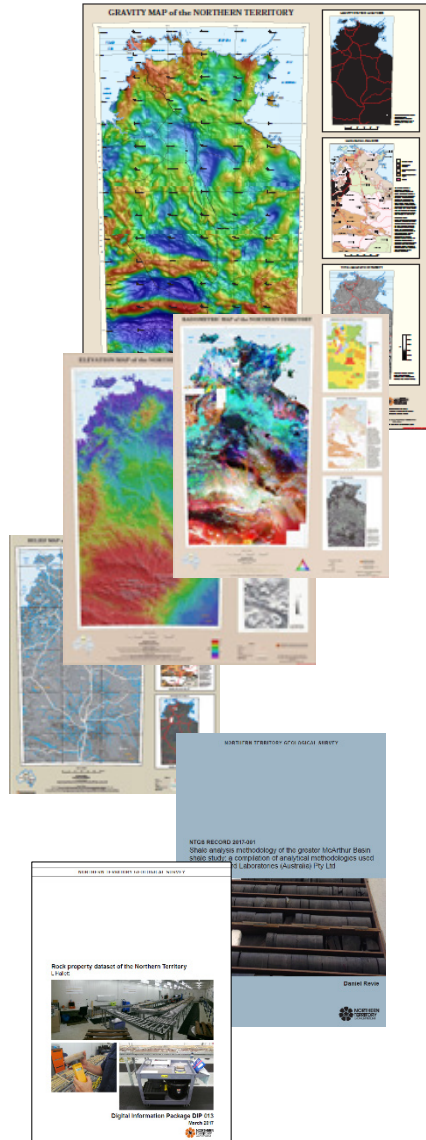
## Minerals and petroleum nt.gov.au

- *Regulatory information* – minerals, petroleum, geothermal
- *Guides, forms and templates* for land access, titles, mining authorisations, mine management plans, petroleum operations approvals, reporting requirements
- *How to access geoscience information* – online systems, core library, publications, industry reports
- *Basic geology of the NT, commodities summaries*
- *Royalties, work health and safety*

## Department

- NTGS projects
- AGES
- STRIKE information
- Legacy Mines
- Mining Advisory Committee
- Public environmental reports
- Mining notices
- Petroleum statistics

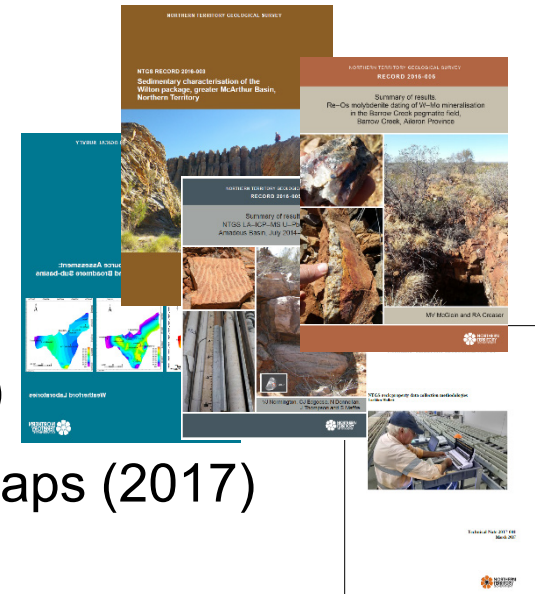
# 6. New NTGS Products



- Daly Basin gravity survey data
- 6 new Records
- 5 HyLogger Data Packages
- NT Magnetic and Radiometric Maps (2016)
- 5 new and 2 revised 250k GIS datasets
- Abner Range Special 100k GIS dataset

## Just released

- AGES 2017 Proceedings
- Updates to DIP001, DIP003, DIP012, DIP013, DIP014
- Metallogenic Map of the NT (2017)
- NT Relief, Elevation and Gravity Maps (2017)
- Rock Property methodology





# Feedback and Requests

**geoscience.info@nt.gov.au**  
**or 08 8999 6443**

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Stuart Highway, Alice Springs