



Department
of Industry

Geological Survey of New South Wales



Geological Survey of New South Wales

Role of GSNSW

The Geological Survey of NSW collects and manages geological, geophysical, geochemical and geospatial data...

to inform the government, resource industry and the community about the state's geology, and mineral, coal, petroleum and renewable energy resources....

to facilitate **the safe and sustainable development of NSW mineral and energy resources for the benefit of all NSW citizens.**

Geological Survey of NSW



102 Staff

63 Permanent, 39 Term staff
Coal Innovation NSW within GSNSW



\$30.9M Budget

\$11.6M Staff, \$12.6M Operating
\$2.3M Grants, \$4.3M CapEx



\$3.0BN Assets

\$2.5b – digital data holdings
\$0.5b – core, cuttings, samples in 6 core libraries



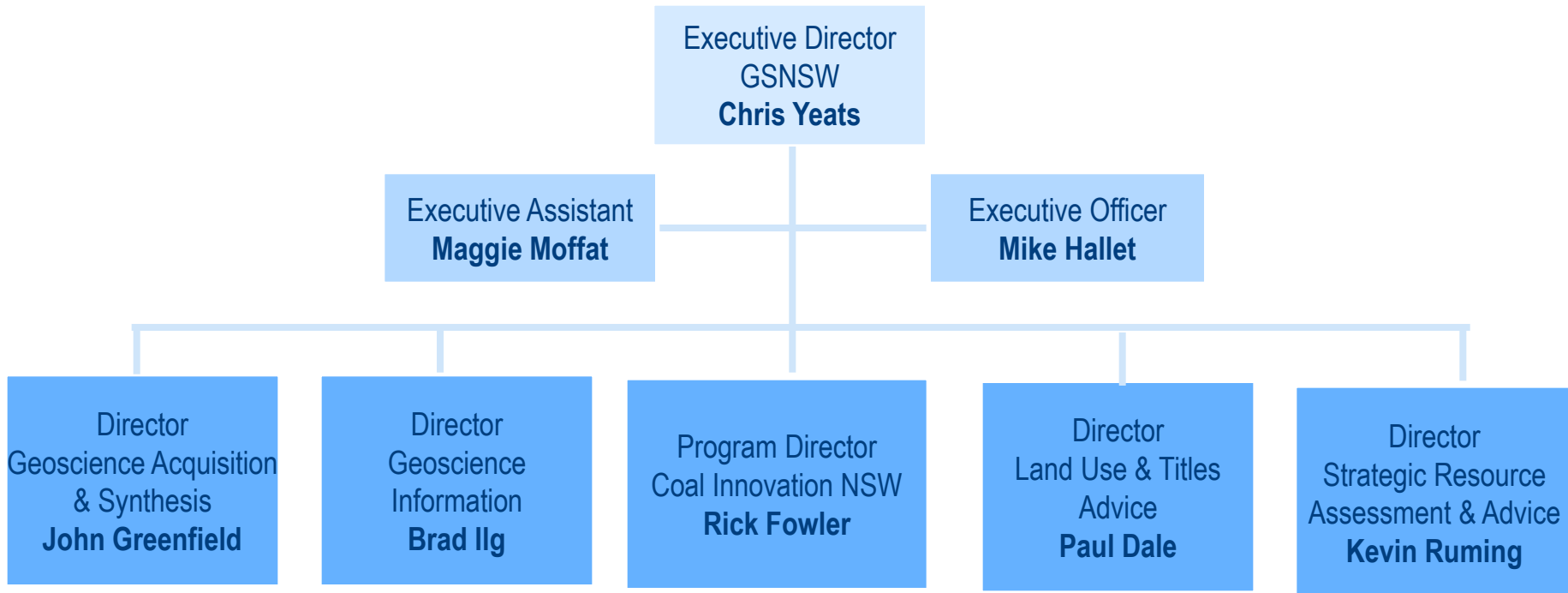
1400 GSNSW products

600 books, reports, bulletins etc.
60 digital data packages, apps
550 maps

Capabilities across coal, petroleum, geosequestration, geothermal and minerals:

- Mapping
- Mineral systems
- Geophysics, 3D
- Large survey and drilling procurement
- Land-use, titles, & resource assessment
- Palaeontology, Petrology, Hylogger
- Digital Cartography
- Editing, layout, graphics
- Databases, web delivery, apps

GSNSW Executive



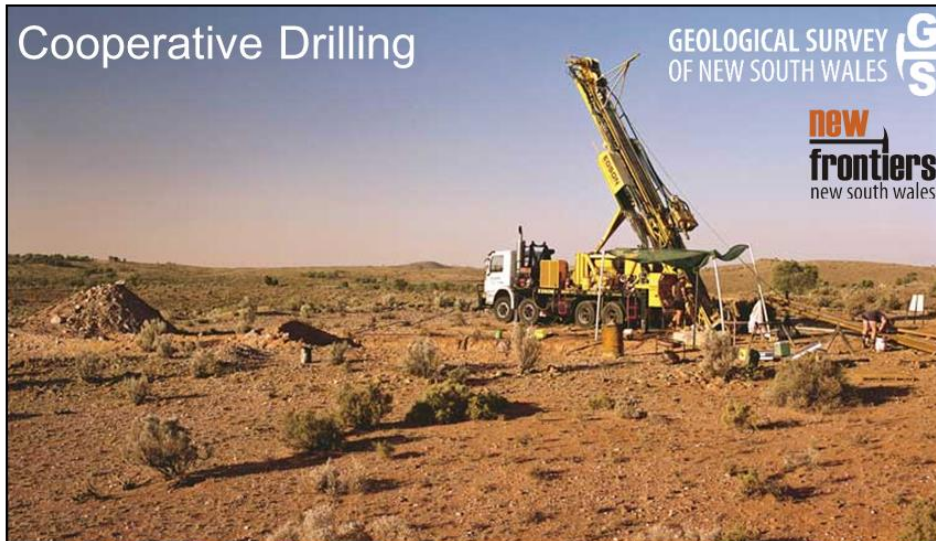
GSNSW Business Units

Business Unit	Purpose
Executive Team, Geological Survey of NSW	Leadership, management and strategic planning for GSNSW; stakeholder engagement across the industry, government and the community
Geoscience Acquisition & Synthesis	Precompetitive geoscience data acquisition and synthesis to support mineral and energy exploration, land use planning, natural resource management and conservation planning across NSW.
Geoscience Information	Quality control, data management, storage, and delivery of the State's precompetitive and confidential geoscience information.
Coal Innovation NSW	Support research, development and demonstration of low emissions coal technologies and carbon capture and storage
Land Use & Titles Advice	Provision of geological and titles advice to explorers and developers; provision of evidence-based advice and responses to government, industry and the community with regard to land use planning and natural resource management
Strategic Resource Assessment & Advice	Provide assessment of minerals and energy resource potential, new mine development and exploration to inform policy and decision making.

New Frontiers Cooperative Drilling

Cooperative Drilling Program Round 2

- Providing up to 100% of direct drilling costs in frontier exploration areas
- Opened November 16, 2015
- Closes April 29, 2016
- Funding in 2016-17



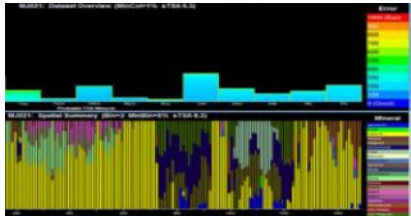
Londonderry Core Library



1100km core
+660km core with extension



~500 visitors p.a.



215km core scanned
~200 datasets uploaded



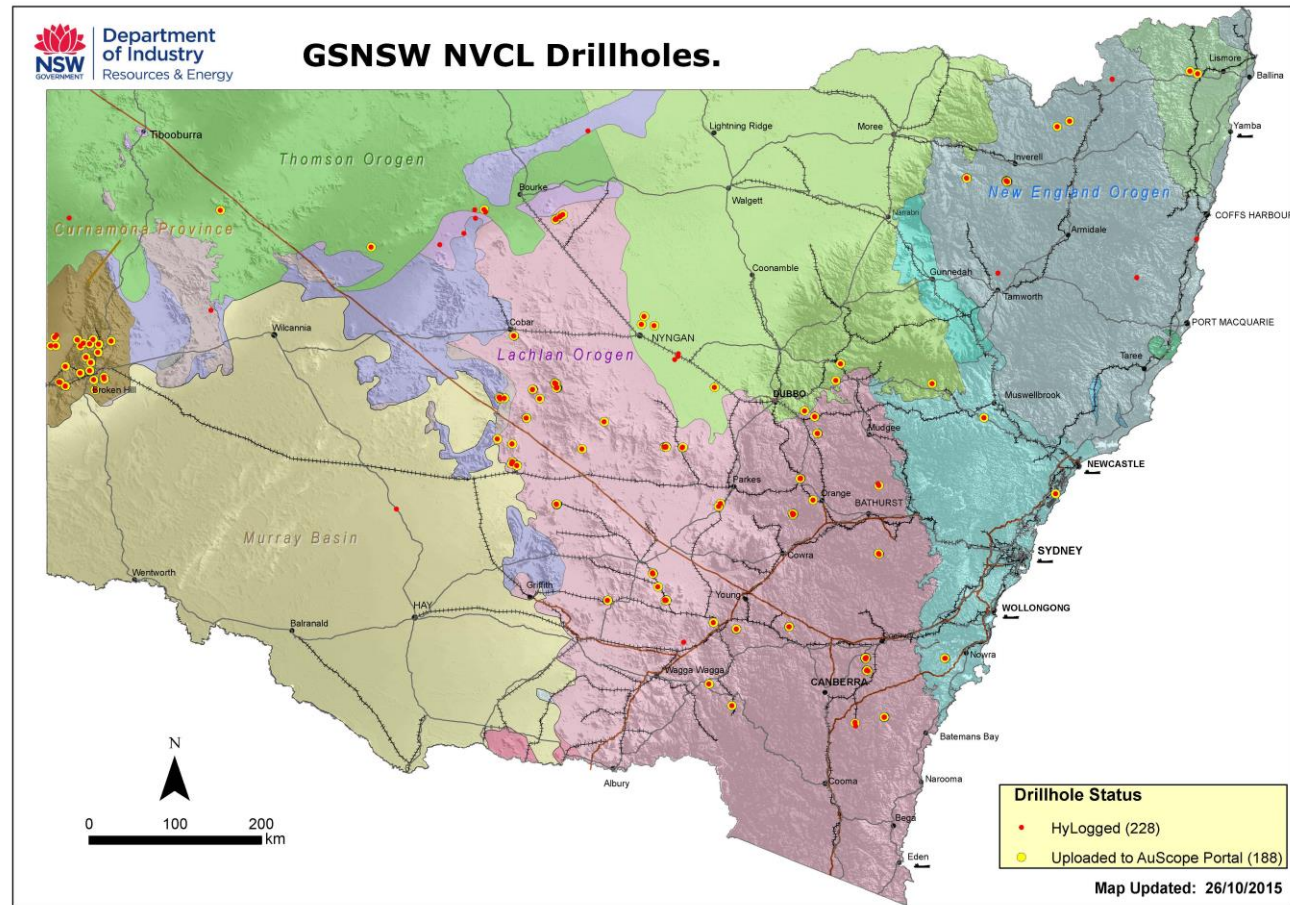
50 000 fossils
75 000 thin sections
25 500 economic rocks

Expansion will be finished in December, with new meeting room



National Virtual Core Library (NVCL)

- Collaborative infrastructure project with AuScope, nodes throughout Australia (HyLogger at WB Clarke Geoscience Centre)
- Progress made in thermal infrared (TIR) interpretation, and mineral data validation using XRD and electron microprobe analysis
- Over 230 drill holes (230km) scanned
- 25 holes from Broken Hill Domain this year
- Porphyry 3d model
- 9000m from Cobar district to be transported for scanning



Common Ground

commonground.nsw.gov.au

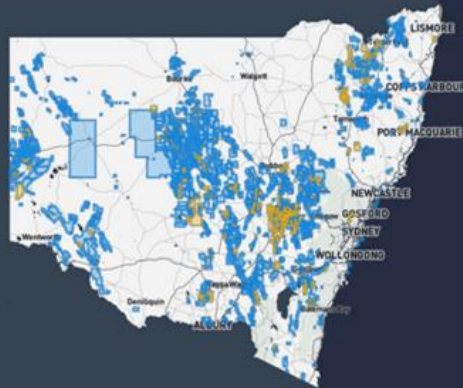
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TITLES MAPS ▾ ABOUT TITLES ▾ COMMUNITY ▾ ABOUT COMPANIES ▾

PEL 123



Department
of Industry
Resources & Energy



Helping you find information about current exploration and mining activity in your area.

SCROLL TO FIND OUT MORE



Listening to community

Common Ground is the result of collaboration between community, industry and the NSW Government.

Common Ground provides you with clear explanations of mining and production titles. We describe the roles of community and government in the decision making process for any proposed activity.

If you have any questions or feedback, please use the help / feedback tab on any page to contact us.

Help/feedback

Mobile Maps

- **Download to your mobile device**
- **No mobile reception required in the field**
- **Free**

View geology maps and airborne geophysical images produced by the Geological Survey of New South Wales. The maps and images are downloaded to your mobile device so that no reception is required in the field. Your location is always indicated on the map, and the map can be re-centred to your current location at any time with just one touch. The simplified geology map displays 106 broad rock types and is interactive. When the screen is touched the name and age of the underlying rock type is displayed in a pop-up. When the pop-up is touched, additional information is displayed.

A useful tool for NSW geologists, engineers, farmers, environmental consultants and students and anyone interested in geology, landforms and soils.

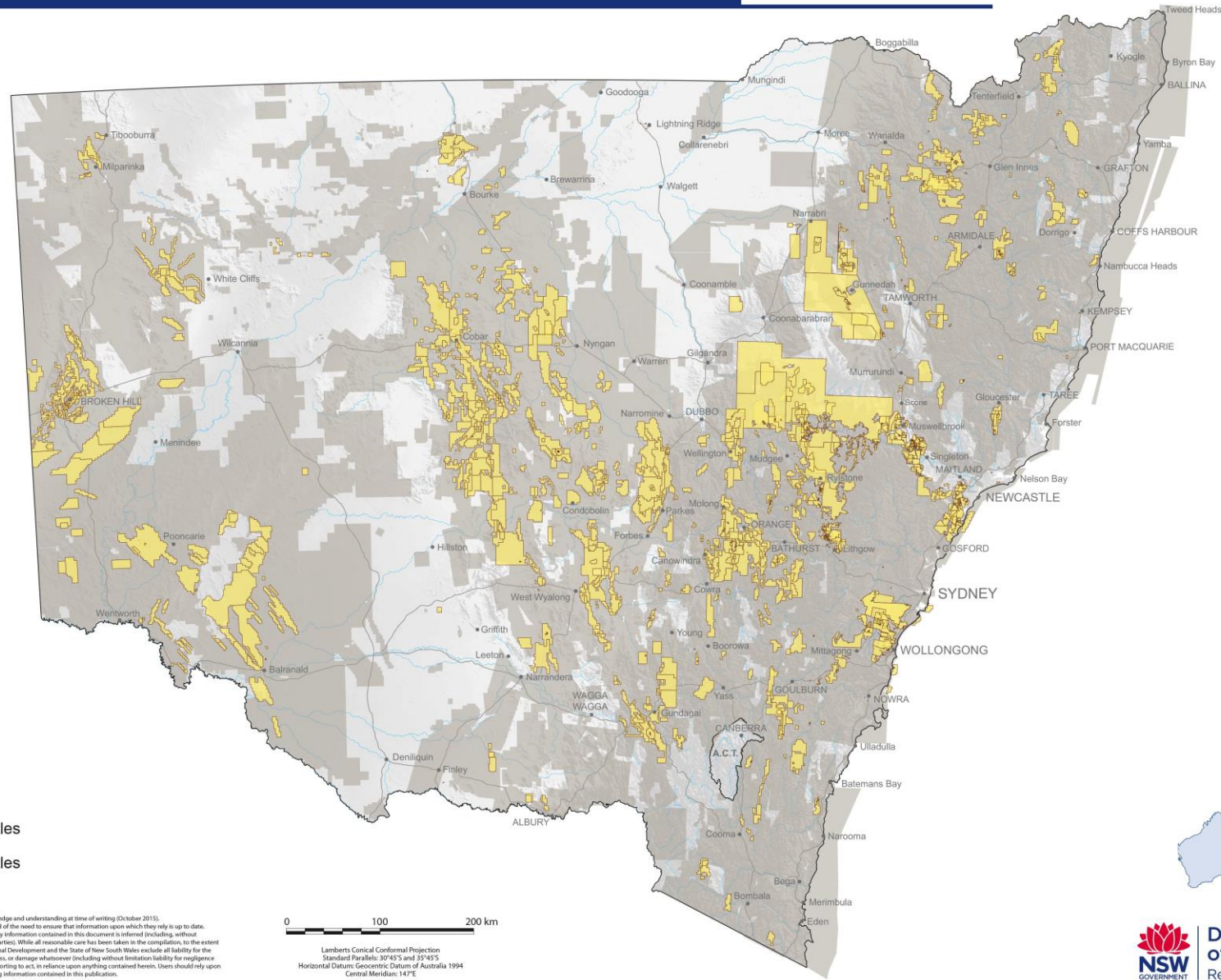


<https://www.geoscience.nsw.gov.au/phonemaps/>

- Geology and geophysical imagery available via free download
- Stored on your phone or tablet – live connection needed
- Uses the phone's GPS for location
- Available for iOS and Android devices



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REFERENCE

- Current mineral titles
- Historic mineral titles

Disclaimer
The information contained in this publication is based on knowledge and understanding at time of writing (October 2015). However, because of advances in knowledge, users are reminded of the need to ensure that information upon which they rely is up to date. No warranty about the accuracy, currency or completeness of any information contained in this document is inferred (including, without limitation, any information in the document provided by third parties). While all reasonable care has been taken in the compilation, to the extent permitted by law, NSW Department of Industry, Skills and Regional Development and the State of New South Wales exclude all liability for the accuracy or completeness of the information, or for any injury, loss, or damage whatsoever (including without limitation liability for negligence and consequential losses) suffered by any person acting or purporting to act, in reliance upon anything contained herein. Users should rely upon their own advice, skills, interpretation and experience in applying information contained in this publication.

0 100 200 km
Lambert Conformal Projection
Standard Parallels: 30°45'S and 35°45'S
Horizontal Datum: Geocentric Datum of Australia 1994
Central Meridian: 147°E



GSNSW 5 Year Plan: Our Vision for 2021

- The resources sector in NSW has social licence to harness the State's abundant natural resources for the benefit of all NSW citizens
- GSNSW is a trusted advisor to industry, government and the community and provides high-quality, understandable geoscientific data and advice to inform all levels of decision making and provide impetus for investment in the State's resource sector
- NSW has a flourishing, dynamic and socially accepted exploration sector
 - Clear and accountable, transparent regulation and decision making
 - New discoveries are made using the best available data generated via the New Frontiers Initiative (NFI)
 - Data and ideas generated through the NFI makes a demonstrable positive difference to exploration success by providing the right information in the right areas of the state

New South Wales



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