

Intrusion-related mineral systems of north-east Queensland – 3-year collaborative project

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Great state. Great opportunity.



Outline

- Project background
- Project purpose, scope and structure
- **We want your feedback!**

Project origin – Industry Priorities Initiative

- Since 2013, a new geoscience funding initiative of Queensland Government
- Project proposals were submitted to GSQ through QEC, AMEC and APPEA
- Selected projects, deemed to be most likely to assist exploration in Queensland and benefit a range of companies, are funded by GSQ
- This Seminar presents results of the first year of a 3-year project funded by GSQ under this initiative

Prospectivity of intrusion-related mineral systems of north-east Queensland

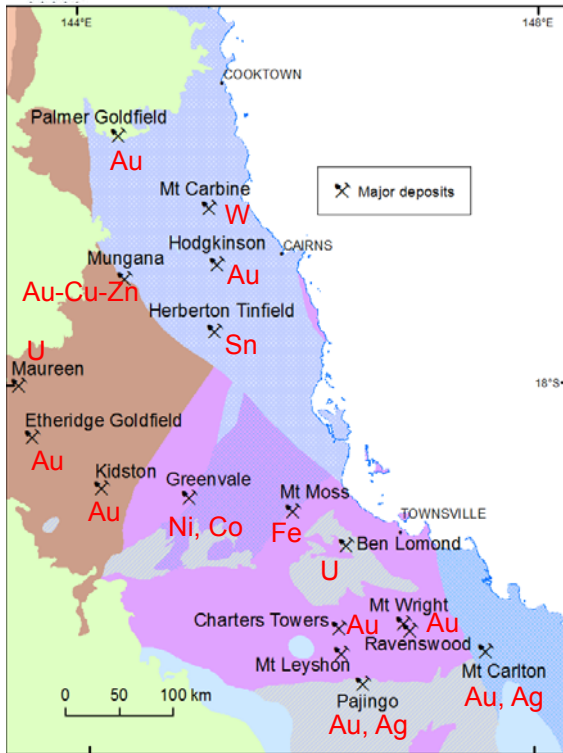
Purpose:

Stimulate significant new mineral exploration activities in north-east Queensland by generating and promoting a comprehensive package of relevant scientific information characterising potential of the region for large-scale intrusion-related metal systems

Scope:

Amalgamation of two original project proposals submitted to GSQ, modified using suggestions from mineral resource industry (workshop in Townsville, 13 February 2014)

North-east Queensland project area



Significant mineral endowment:

- Gold-silver – Charters Towers (6.5 Moz), Kidston (5 Moz), Pajingo (5 Moz), Ravenswood (4 Moz), Mt Leyshon (3 Moz), Mt Carlton (>2.2 Moz), Palmer (1.5 Moz), Mt Wright (1 Moz)
- Tin-tungsten – Herberton, Mt Carbine
- Uranium – Ben Lomond, Maureen

Subdued current exploration activities

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Prospectivity of intrusion-related mineral systems of north-east Queensland

Funding:

\$2.5 million over 3 years from GSQ, plus in-kind contributions and additional funding from the collaborative partners and industry

Implementation:

11 sub-projects, performed as a collaboration between JCU, Terra Search, Klondike Exploration, GSQ and mineral resource industry

Project structure

Title	Responsible group
1. Magma-related hydrothermal mineral systems of the northern Bowen Basin	JCU
2. Geology of the Mt Carlton high-sulfidation epithermal deposit	JCU
3. Magma fertility, petrogenesis and geodynamic setting of Carboniferous and Permian magmatic complexes	JCU
4. Updated geology of the Charters Towers region	TS-K
5. Metallogeny of the Charters Towers Province	TS-K
6. Metallogeny of the Permo-Carboniferous mineral systems of the Georgetown region	TS-K
7. Metallogeny of Sn-W-Mo-Cu mineral systems	JCU
8. Exploration geophysical signatures of intrusion-related deposits in the Charters Towers region	TS-K
9. Comprehensive prospectivity analysis	JCU - GSQ
10. Regional alteration mapping using remote sensing methods	JCU
11. Geochemical signatures of intrusion-related mineral systems	JCU - TS-K

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Project feedback

- The project has 2 more years to run
- Presentations at this Seminar (and some at the Exploration Round-up in Charters Towers, 28-29 May) outline results to date and planned future activities
- The project's main purpose is to stimulate exploration in the region
- Your feedback will influence decisions on project scope for the next 2 years
- Feedback forms – please complete and return, or email: Paul.Donchak@dnrm.qld.gov.au

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