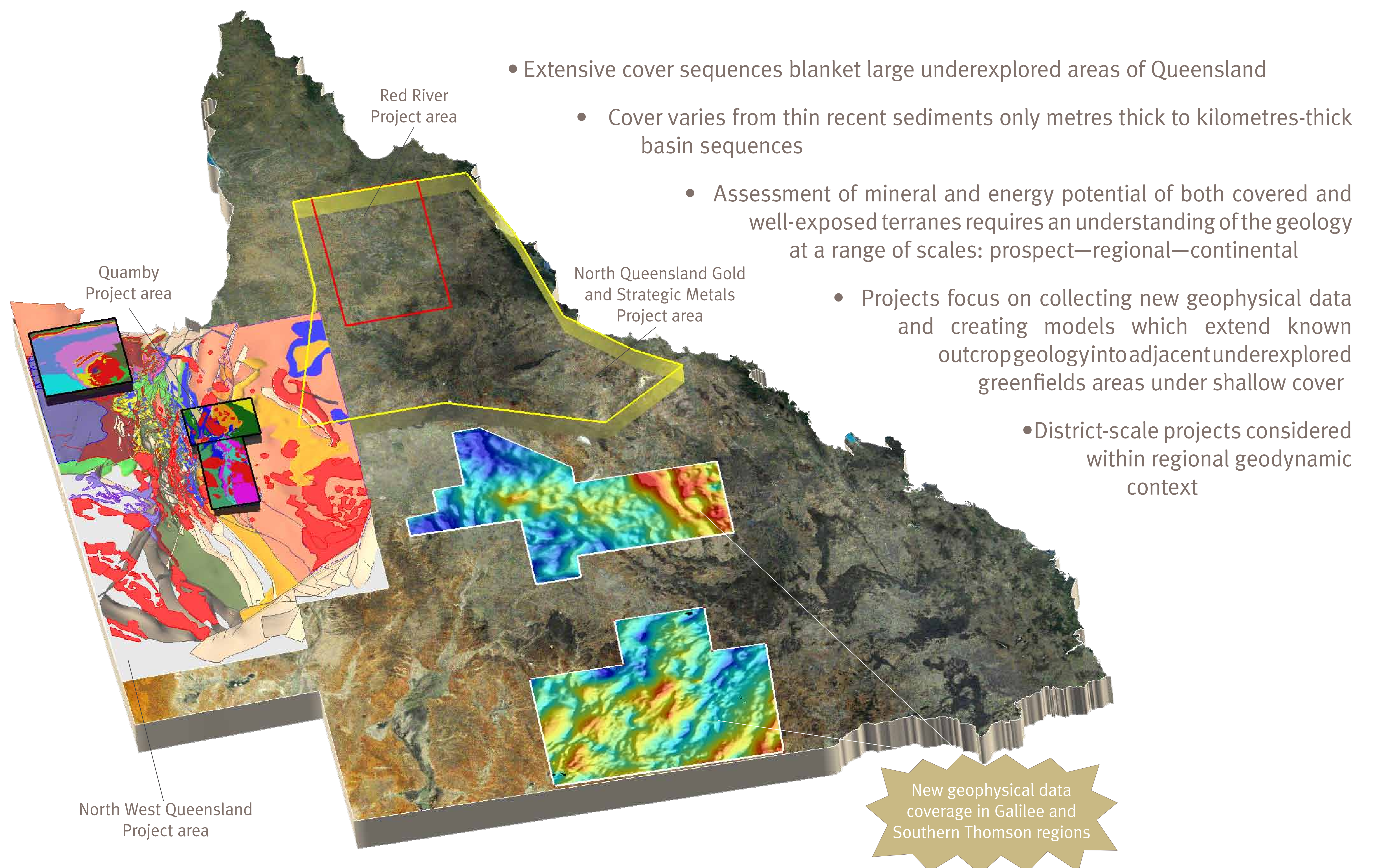


Uncovering Queensland's resource wealth

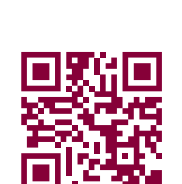
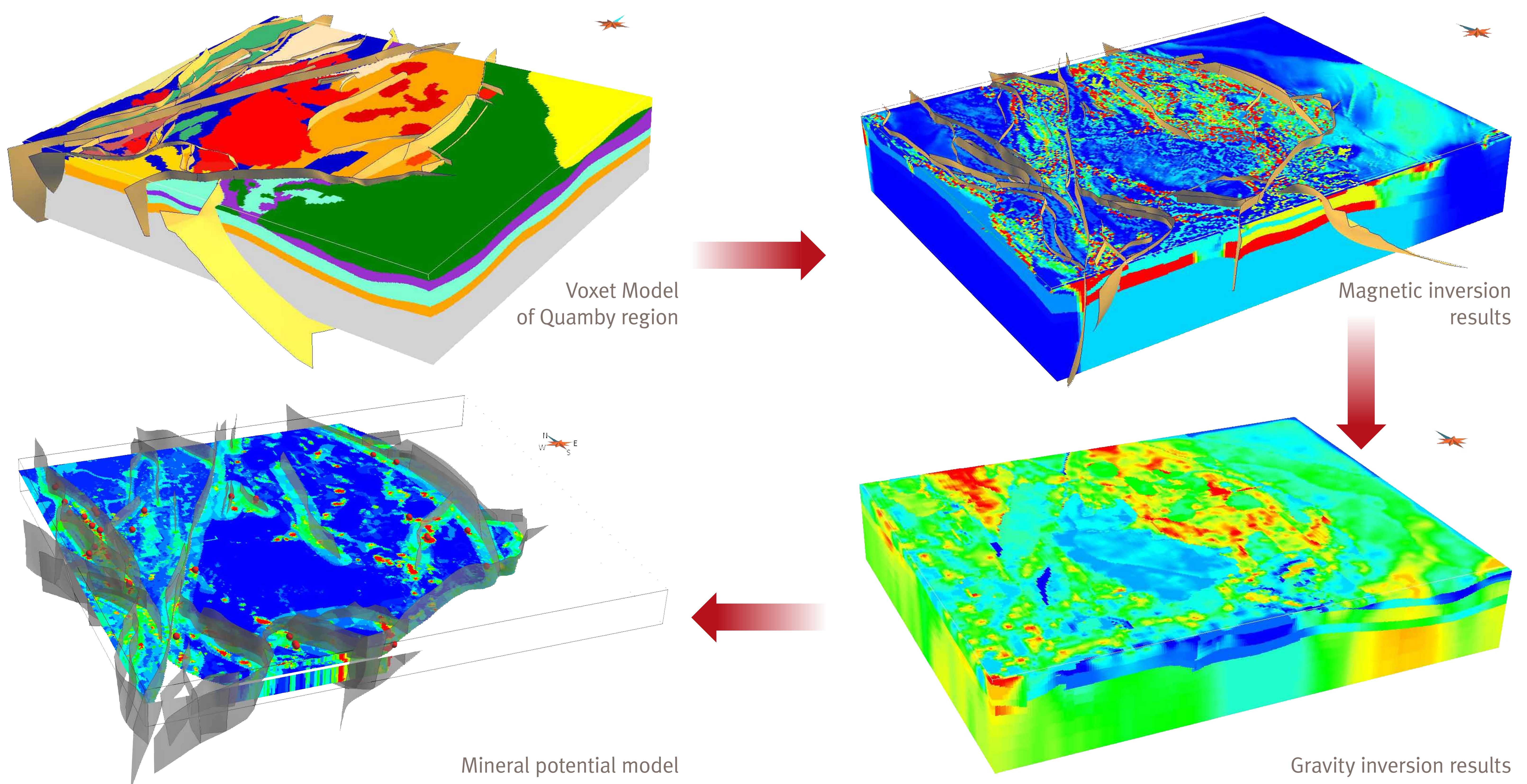


Greenfields prospectivity

3D mineral prospectivity analysis

- prospectivity analysis in greenfields terranes requires integrating geology and geophysical data with iterative data validation, modelling and inversion
- 3D weights-of-evidence workflow applied to support predictive studies in concealed terranes
- output is a 3D physical property model for targeting prospective ground based on robust exploration criteria

Quamby Project workflow



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North Queensland gold and strategic metals

Mineral resource assessments of North Queensland — from geotectonic synthesis to exploration targeting

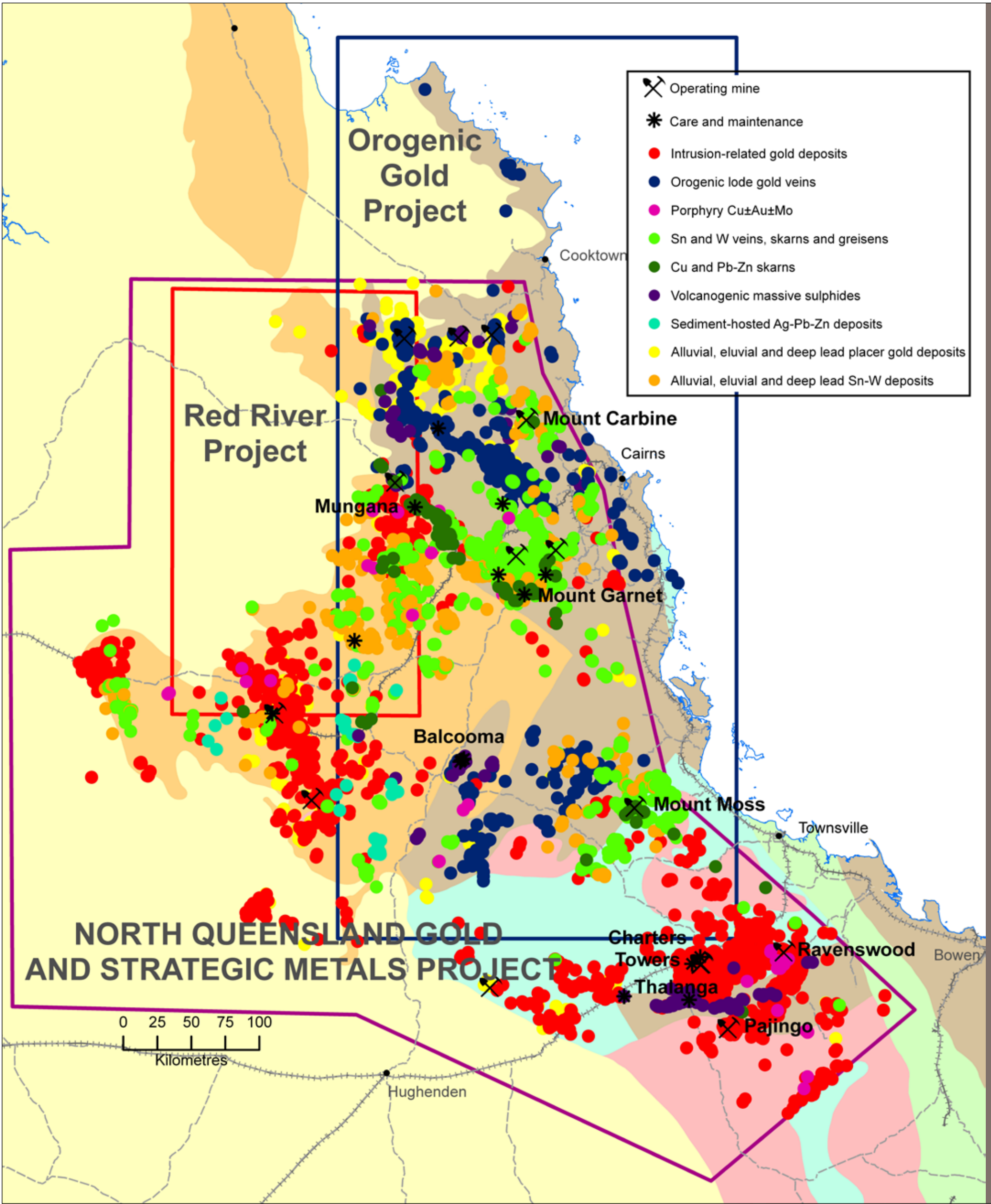
North Queensland is prospective for new discoveries of various deposit types, including:

- orogenic and intrusion-related Au
- epithermal Au-Ag
- porphyry Mo-Cu-Au
- volcanic-hosted massive sulphide Zn-Cu-Pb
- vein, greisen and skarn Sn and W
- new strategic metals (Be, Bi, Cd, Ga, Ge, In, Li, Mo, Re, REE, Y, Sc, Ta, Nb)

The Geological Survey of Queensland is quantifying mineral resource potential for these commodities via a series of targeted studies, such as the Orogenic Gold and Red River projects.

Aims

- attract new greenfields exploration into North Queensland
- assist informed decision making by government and industry



Orogenic Gold Project

- Hodgkinson and Broken River Provinces have widespread historical production from orogenic Au and Au-Sb deposits
- historical Au grades often > 30 g/t
- significant refractory gold resources at Northcote, Tregoora, Atric and Camel Creek
- deposits characterised by ultra-fine gold with in situ gold grades of 1.5 g/t to 6 g/t.
- several undiscovered ore fields with >1 t of contained gold are likely in the region
- regional geochronological and illite crystallinity studies underway

Red River Project

- area prospective for gold, base metals and strategic metals associated with Permo-Carboniferous magmatism
- large areas of cover discourage explorers
- improved understanding of basement geology and cover thickness to stimulate greenfields exploration

Project will include:

- a regional 3D model
- a high resolution 3D property model derived from geophysical inversion
- a mineral systems analysis
- a regional mineral potential assessment
- detailed 3D mineral prospectivity models of selected areas

