



Targeted Geoscience Initiative

Public geoscience in support of more effective exploration for buried ore deposits

Start date: April, 2010 End date: March, 2015

Outcomes

Long Term
2016 and later

Intermediate
by April 2016

Immediate
by April 2014

Outputs

Activities

Issue

Policy Linkage
 PAA
 1 Economic Competitiveness
 1.1 Economic opportunities for natural resources
 1.1.5 Geoscience stimulates exploration for energy and minerals
 1.1.5.1 Geoscience exploration

Increased global competitiveness of the Canadian industry in deep exploration

Canada's metal reserves increase through discovery of significant buried metal deposits

High paying jobs in rural communities

Knowledge and technology adopted by industry results in new exploration strategies and more success

Improved exploration models where important knowledge and information gaps have been addressed.

Technology transfer to the SME active in exploration maintains their globally competitive position

Network of Canadian research centers focused on relevant exploration research problems

Improved understanding of distal indicators to ore environments.

New methods and technologies allow better detection of buried ore deposits

- Compilations of existing data for target districts
- Analytical protocols to characterize mineral systems
- Descriptions of enhanced understanding of mineral systems
- Geochemical and mineralogical indicators targeting ore environments
- Data dissemination through workshops, seminars, presentations and publication
- Technology suitable for implementation by industry
- HQP with suitable experience for industry

- Analysis and prioritization of research to improve industry standard exploration models
- Compilation and analysis of existing data from target areas
- 3D physical and chemical modeling of deposit environments
- Development of robust indicators for ore forming environments

Understanding Mineral Systems and the environments in which they formed