Targeted Geoscience Initiative III

Geoscience ... "mapping to help sustain the reserves of base metals in established mining communities"

TGI 3

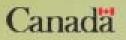
Simon Hanmer (GSC)



Natural Resources Canada

Ressources naturelles Canada





Targeted Geoscience Initiative

• **TGI 1** (2000-03)

• Public geoscience focused on the Mining sector

• **TGI 2** (2004-05)

Focused on Northern Canada and Energy issues

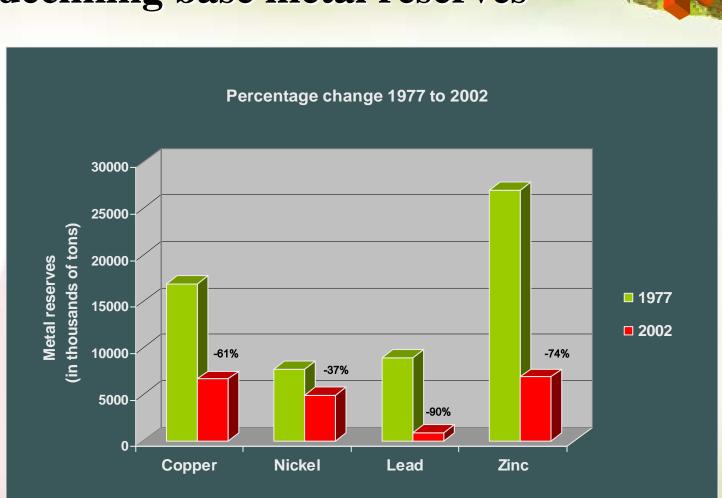
• **TGI 3** (2005-10)

• Focused on base metals in existing mining communities









... declining base metal reserves

The issue for Canada ...



Natural Resources Canada

ces Ressources naturelles Canada







Economies of resource-based communities are vulnerable because of declining base metal reserves



Ressources naturelles Natural Resources Canada





TGI renewal = TGI 3

 Federal budget renewed the Targeted Geoscience Initiative (TGI 3) for **\$5million/yr for 5 years = \$25 million**

TGI 3 Objective as per Budget 2005: "... focused on mapping to help sustain the reserves of base-metals in established mining communities"









Definition of "Mapping"

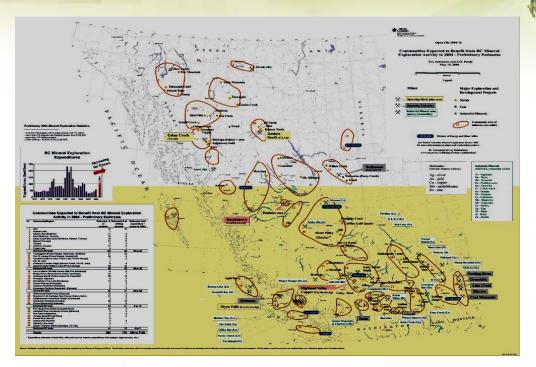
- Any spatially systematic geoscience activity in the fields of geology, geochemistry and geophysics including:
 - Compilation
 - New mapping
 - "Deep-Search" methods for hidden deposits
 - 3D "knowledge cubes"







Definition of "Mining Community"



- **Economic spheres of influence**
- **Districts** rather than individual communities
- Exploration, mining, processing •

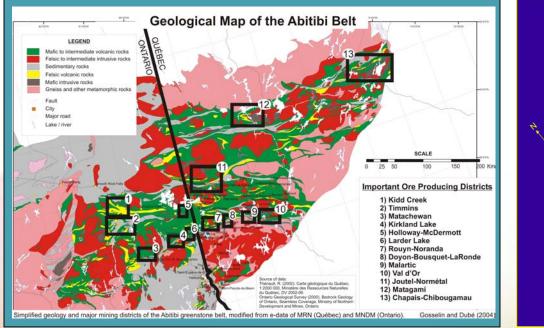






Definition of "Mining Community"

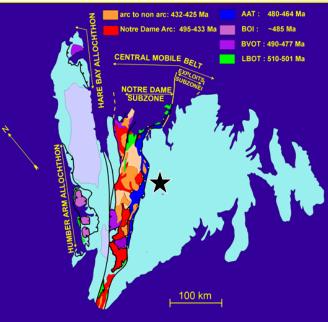
 Rather than individual communities, TGI 3 projects can be defined in terms of geological domains that contain one or more mining districts.



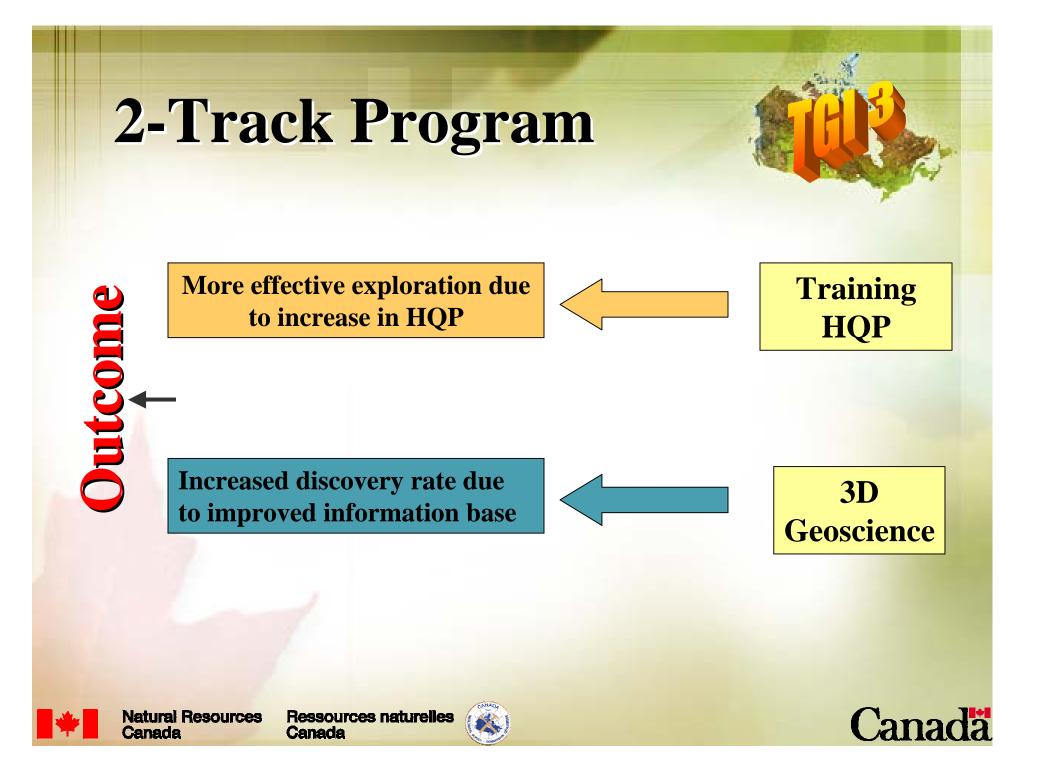
Ressources naturelles

Canada

Natural Resources

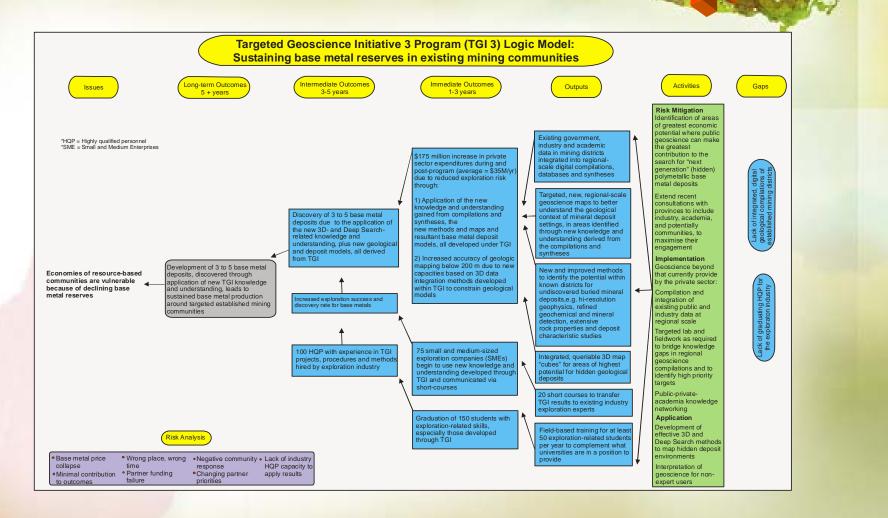






Program Logic Model ...

What does it mean? What is its value? – Accountability!









Outcome metrics ...

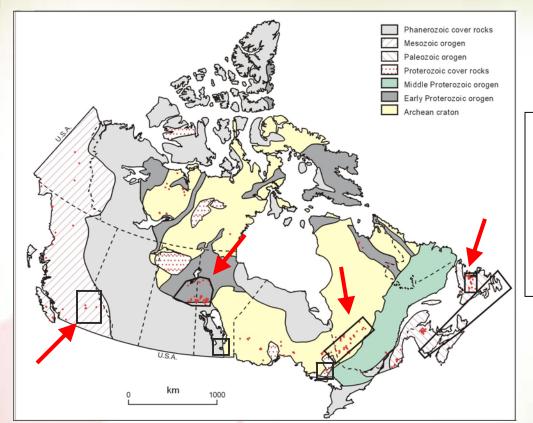
Immediate 1-3 years

- 75 junior exploration companies use new knowledge and understanding in exploration strategies
- 150 students graduate with increased exploration-related skills
 Intermediate 3-5 years
- 100 HQP with TGI experience/exposure hired by the exploration industry
- \$175 million increase in private sector expenditures
- 3-5 new base metal deposits found due to application of TGI knowledge/methodologies
- **Long term:** Development of 3-5 deposits leads to sustainable base metal production around targeted established mining communities





Project areas discussed ...



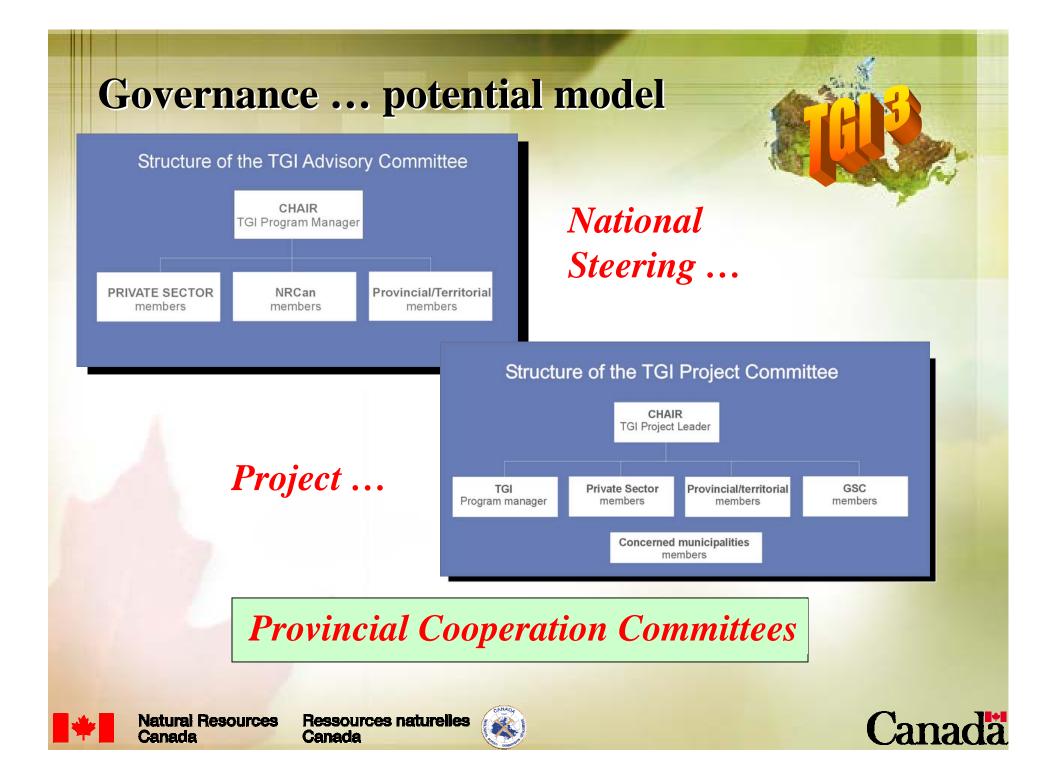
Dunnage Zone (VMS) Avalon (Cu-Au) Abitibi (VMS, Ni-Cu, Cu-Au) Sudbury (Ni-Cu-PGE) Bird/English River (Ni-Cu) Juvenile THO (VMS, Ni-Cu, IOCG) Southern BC (SEDEX, VMS, Cu-Au)



Natural Resources Canada Ressources naturelles Canada







TGI 3 schedule ...

- Treasury Board submission O.K. •
- TGI 3 strategy paper submission to ESS EXCOMM OK •

Project Planning



• Supplementary Estimates ...

Canada

NRCan support <u>now</u> **O**K •









TGI3 Summary ...

Issue

Economies of resource-based communities are vulnerable because of declining base metal reserves

Outcomes

\$175 million increase in private sector expenditures

• Development of 3-5 deposits leads to sustainable base metal production around targeted established mining communities







Cooperative Geological Mapping Strategies Across Canada

- A National public geoscience initiative proposed jointly by the National Geological Surveys Committee (NGSC)
- ➢ To renew the public geoscience knowledge base that is one of Canada's key competitive advantages in attracting investment in mineral and energy resource exploration

To support the responsible development of Canada's natural resources for the benefit of all Canadians Cooperative GEOLOGICAL Mapping Strategies Across Canada

Prepared by the National Geological Surveys Committee in Consultation with Industry and Governments

Mines Ministers' Conference SEPTEMBER 2000







Public Geoscience

 A modern geoscience knowledge base enables Canada to attract mineral investment

•Geoscience stimulates enormous social, economic and fiscal returns for both communities and governments

•Geoscience knowledge provides other benefits, including

- •Training a future generation of explorationists
- •Reducing technical and regulatory risks
- •Informing protected area strategies

- •Contributing to Canadian sovereignty and security
- •Providing environmental base-line information
- •Informing land use and land claim decision-making



