What is CONSOREM?
- Public Private partnership in applied research for mineral exploration
- Synergy between companies, governments and universities
- A unique research structure under industry control

Mandate of the CONSOREM
- Development of technologies and knowledge applied to mineral exploration
- Development of mineral exploration models
- Deepen the knowledge towards the industry
- Training of highly qualified personnel in mineral exploration

GOLD

EXAMPLES OF RESEARCH PROJECTS

Paleostress mapping to target orogenic gold deposits

DIAMOND

The architecture of the tomographic Archaean mantle and kimberlite fields of North America

PGE

New tool in the interpretation of PGE fertile environments

BASE METALS

New exploration model in the Blake River Group, Abitibi Subprovince

BASE METALS

The PER-GH classification: a new tool to evaluate the fertility of felsic volcanic rocks

URANIUM

Uranium prospectivity in the Grenville Province based on a new data digitization tool

CONSOREM applies stress mapping techniques on several sites, along faults, across mines, and at the regional scale, in order to determine favorable parameters for orogenic gold deposits. Paleostress maps are constructed using the geomechanical models UDEC which simulates incremental displacements along discontinuities such as faults and lithologic contacts.

CONSOREM has developed a unique interpretation tool for PGE and Ni fertility. The new archetypal diagram combines commonly used binary diagrams (Barnes et al. 1988) in order to interpret petrogenetic processes and discriminate fertile/depleted settings. CONSOREM applied diagram is used in conjunction with a database to compare profiles with a collection of data from different environments around the world.

Integration and interpretation of multi-source data (felsic intrusives, mafic dykes, faults, volcaniclastic deposits, alteration, and mineralization) allowing the proposition of a new paradigm for the genesis of the Archaean Blake River Group. Such a proposal has incidental implications for the interpretation of Archaean sequences and for exploration strategies.

CONSOREM's Data digitization tool has been developed in order to transform mineral exploration profiles coming from a private source into CONSOREM industry member database. This new dataset for U, Th and K is part of an ongoing project whose objectives are the evaluation and identification of new targets for uranium deposits, principally oriented toward the 100 gold type model.