CONSOREM’S RESEARCH: DEVELOPING EXPLORATION TOOLS

Methodological tools
New methods developed or modified by CONSOREM. They are used in data treatments independently of the territory.

Examples are:

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

A new method has been developed to generate the fertility of some elements in order to evaluate the fertility of volcanic environments for felsic deposits. Based on indexes about the petrogenesis of felsic volcanic rocks, the PER-GH Index (PER - 2n Al/Ti, Hb-Si/2n Ti + 5n Al) is used to discriminate between felsic volcanic rocks and different environments. The PER-GH Index is used to discriminate between felsic volcanic rocks and different environments, a new tool to evaluate the fertility of felsic volcanic rocks.

Spatial Signal Analysis Software

The Spatial Signal Analysis Software is used to detect geochemical, geophysical and mineralogical variations relative to a point, a line or a surface which reflect the geological environment of an area. This software has been developed to evaluate the role of intrusion in the mineralization process of different deposits types (Au, Cu-Ni). Among others, the software is used to produce accurate and public databases.

Decision tools
Allow more easily the integration, comparison and analysis of data to evaluate the mineral potential of a specified region.

Examples are:

Spatial Signal Analysis Software

The Spatial Signal Analysis Software (SSA) is used to detect geochemical, geophysical and mineralogical variations relative to a point, a line or a surface which reflect the geological environment of an area. This software has been developed to evaluate the role of intrusion in the mineralization process of different deposit types (Au, Cu-Ni). Among others, the software is used to produce accurate and public databases.

Targeting tools
Result from the integration of different databases, and/or the acquisition of knowledge, which allow pre-competitive targeting on precise territories.

Examples are:

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CONSOREM ORGANIZATION

CONSOREM’s public-private partnership is designed to provide better services to mineral exploration companies in the strategic sectors of copper, nickel, palladium and indium. The Consortium de recherche en exploration minière (CONSOREM) is an organization that brings together 37 companies, 10 universities and 16 research centres. The CONSOREM organization is a natural evolution of a critically important public-private partnership in applied research for mineral exploration: the Consortium de recherche en exploration minière (CONSOREM) was founded in 1989.

CONSOREM’s research activities have been developed in three major scientific fields:

- Petrological and geochemical research
- Structural and tectonic research
- Geophysical research

These research activities are aimed at proposing new exploration tools and techniques, and at promoting the transfer of knowledge to the mineral exploration industry.

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