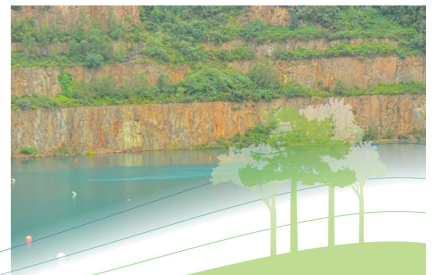




MINING AND POST-MINING SERVICES



Minelis







About MINELIS - Company overview

MINELIS is an independent company in geosciences and mining consulting. Our strength comes from our solid experience in the fields of geosciences, environment, mineral raw materials and mining industry.

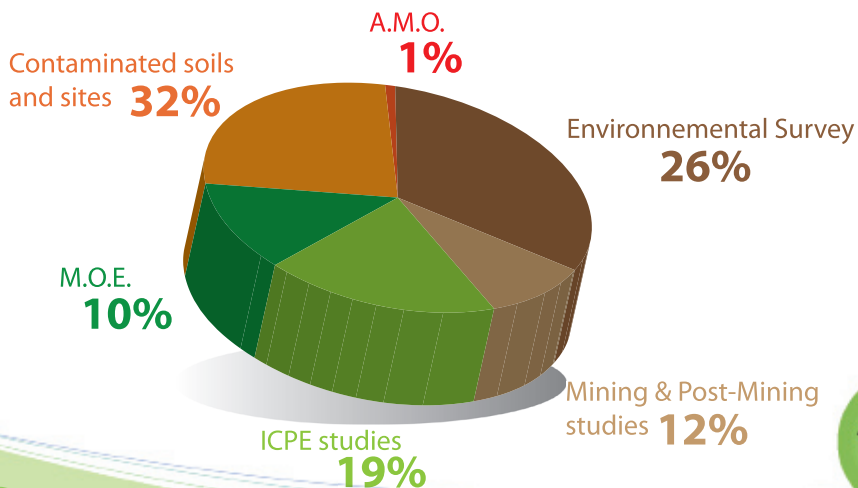


Technical team: geoscientists, engineers, technicians
Administrative team: management and logistics assistant
Locations: based in France (Paris and Toulouse areas), operating worldwide
Activities: geosciences, mining, underground cavities, environment

MINELIS assets:

-  Highly qualified, responsive and adaptable people
-  Flexible and adaptive organization
-  Field equipment belonging to the company, controlled and renewed
-  Member of the AURISPHERE network: consortium of firms with complementary skills in the fields of mineral industry, territory planning and renewable energies






Typology of MINELIS activities in 2015



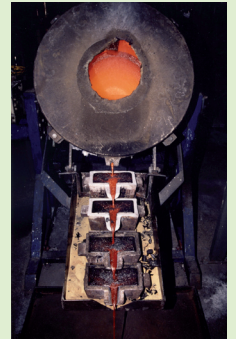
Ore processing

Ore processing plant design and optimization

MINELIS provides you with a strong expertise to every stage of your mining project, all over the world:

-  Ore preparation (crushing, grinding)
-  Gravity separation process
-  Flotation
-  Solid/liquid filtration
-  Tailings ponds








The process optimization allows to increase the yields and the quality of the final product as well as the operating costs



Post-mining and site remediation

Technical and administrative applications Project management for integrated mine closure

The **post-mining** and **site remediation** issues are the historic core business of the company. MINELIS accompanies its clients (industrial and local authorities) for **mine closure**:

-  Historical and documentary analysis
-  Technical studies (geology, hydrogeology, stability, hazards & risks)
-  Development and monitoring of administrative reports for cessation of activities, renunciation of mining title
-  Technical recommendations and support to project owner for mine closure
-  Environmental management and monitoring
-  Reshaping and revegetation of former mining sites
-  Integrated mine closure from administrative application to land reshaping












Main clients:
RECYLEX, EDF, RIO TINTO,
CSME, AREVA, BRGM, local
authorities

Environmental engineering

Diagnosis of pollution, Environmental surveys and monitoring, Tailings management, A.M.D., Predictive modeling, Risk assessment & site management

MINELIS has a solid experience in **environmental geochemistry** and can assist you in optimizing your **environmental survey strategy**. Our team can also assist you in developing cost effective solutions for **tailings management** and mine drainage issues, soil stability or groundwater survey.

-  Tailings management (dry tailings disposal, thickened and paste tailings disposal, cemented backfill, paste backfill, co-disposal, tailings ponds, tailings dams, ...)
-  Mine water management
-  A.M.D. studies
-  Geochemical modeling
-  Sampling campaigns (water, soil, gas, vegetables, ...)
-  Environmental monitoring using passive sensors (bryophytes, DGT, ...)
-  Diagnosis of pollution
-  Design and management of processing units (plants, passive treatments, ...)
-  Proposals for technical solutions



Main clients:
BRGM, RECYLEX,
UMICORE,
RIO TINTO.

Research & Development

Innovating techniques for environmental survey and monitoring Environmental issues related to mining

MINELIS can assist you in your R&D project, notably in the fields of **environmental monitoring** and environmental issues related to **tailings management**.

MINELIS communicates and promotes its innovative projects at conferences, seminars and working groups, as well as through the scientific and technical literature.



Strengths and resources:

Highly qualified team including several Ph.D. holders with research and academic background



Main clients

Rio Tinto Alcan



ADEME



Agence de l'Environnement
et de la Maîtrise de l'Energie

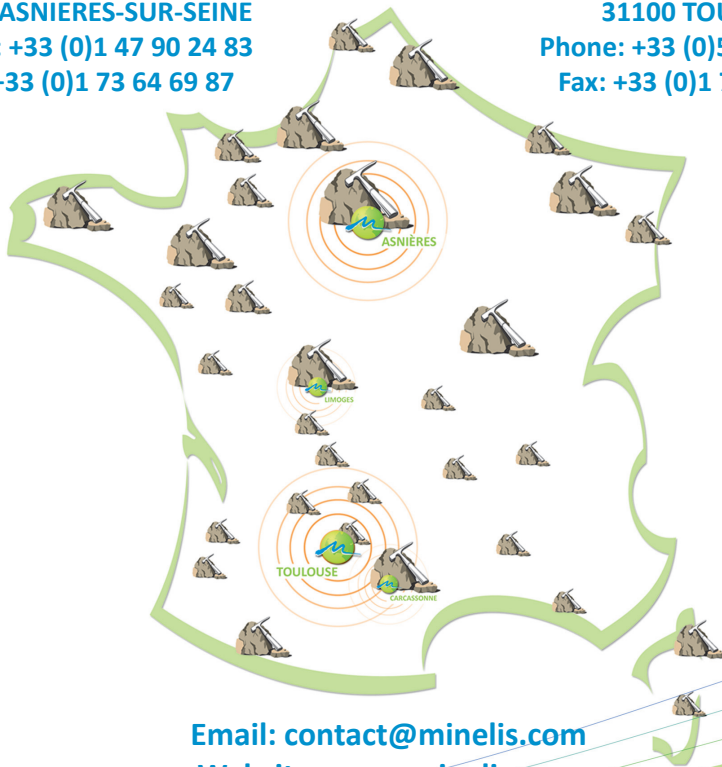




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