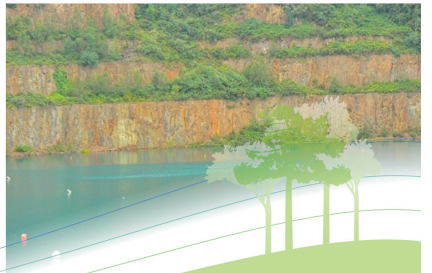




# MINING AND POST-MINING SERVICES



## 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.**

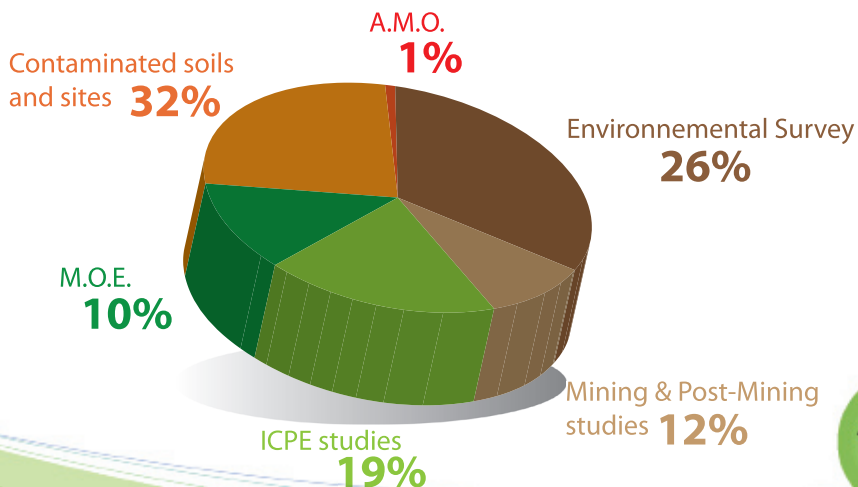


**Technical team:** geoscientists, engineers, technicians  
**Administrative team:** management and logistics assistant  
**Locations:** based in France (Paris and Toulouse areas), operating worldwide  
**Activities:** geosciences, mining, underground cavities, environment

## 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



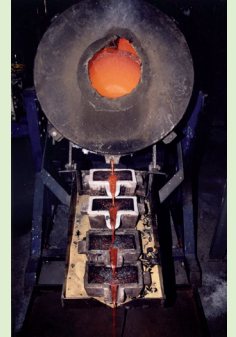
# Ore processing

## 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

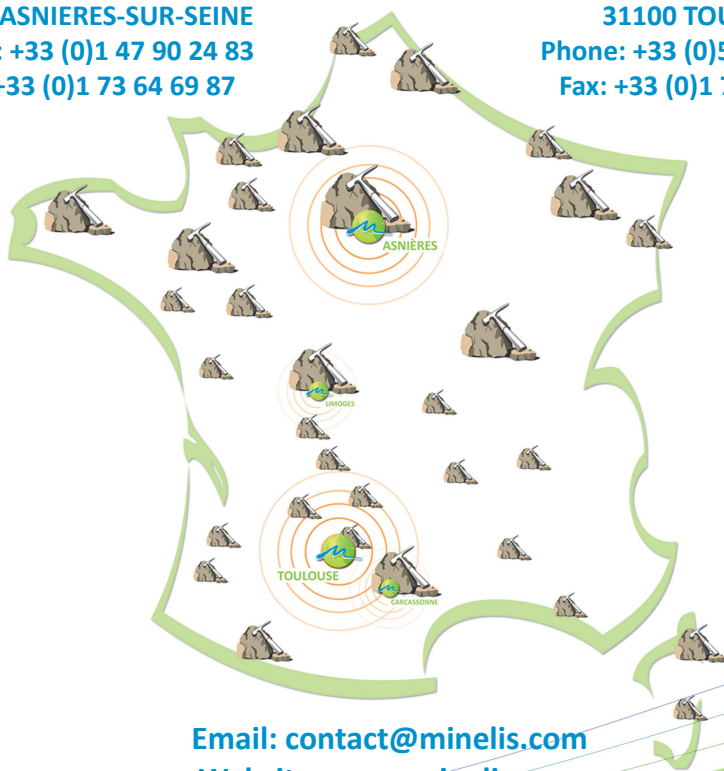




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