

ntroduction

Best available techniques and processes covering the whole extractive life-cycle for responsible mining even within environmentally protected areas.

Context

The results of the investigation aimed to select options and limitations for extraction methods that may be considered for use in environmentally protected areas. All the possible scenarios have been taken into account: from the mine that could have a significant impact on a protected area, even if very distant from it, to the case of a deep underneath mine generating less to none environmental impacts.

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Cutting-edge and emerging technologies and extraction methods Mauro Lucarini', Monica Serra', Fiorenzo Fumanti', Maria Gabriella Andrisani', Federico Silvestri', Lucio Martarelli' (ISPRA)

Results

MINING TIMIZATION 0

It refers to the process of optimizing the health and safety, efficiency and profitability and sustainability of mining operations through various techniques, technologies and strategies.



It refers to the process of reducing impacts on ecosystems, communities and natural resources during mining operations, in order to extract minerals responsibly and with long-term impact.



D 4.1: CATALOGUE OF EMERGING LOW-IMPACT, LOW VISIBILITY EXTRACTION METHODS

LOWER IMPACT

FOOTPRINT MINIMIZATION

REDUC IONS

It refers to the reduction of release of carbon dioxide and methane into the atmosphere during activities such as ore extraction, transportation and processing.





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