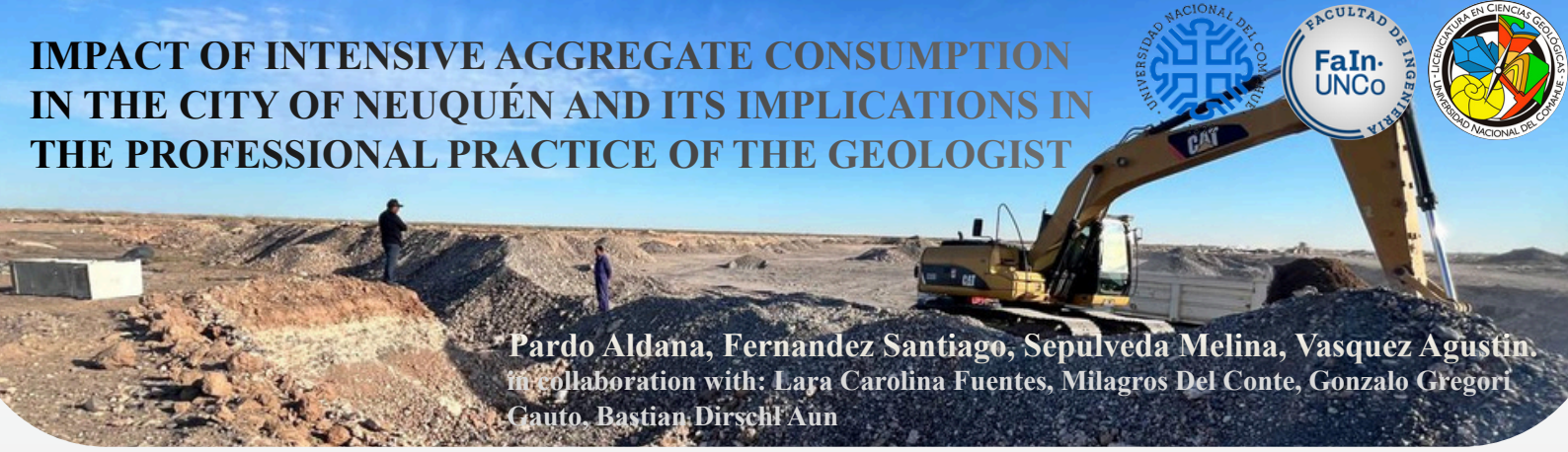
IMPACT OF INTENSIVE AGGREGATE CONSUMPTION IN THE CITY OF NEUQUÉN AND ITS IMPLICATIONS IN THE PROFESSIONAL PRACTICE OF THE GEOLOGIST



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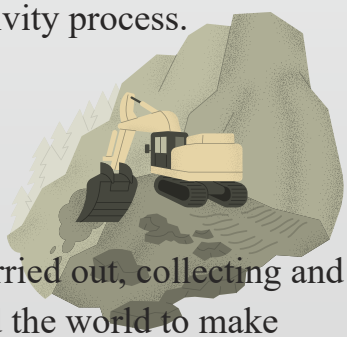
Introduction

As the city of Neuquén is experiencing significant urban growth, the demand for aggregates has increased considerably.
This generates intense extractive activity in quarries, which causes significant impacts on the geological environment.
The purpose of this project is to analyze these impacts from a geological perspective and to evaluate the participation of a professional geologist who plays an important role in the extractive activity process.

Objectives

To verify and raise awareness about the importance of the geologist's role in extractive activity.

Methodology



A desk-based investigation was carried out, collecting and studying similar cases from around the world to make comparisons and better understand the situation.
Then, an expedition was conducted to visit two quarries: one abandoned and one active.
Additionally, a winnowing plant was visited to widen the scope of context.
Subsequently, the analysis continued in the lab to evaluate the impacts and the geologist's role.
Artificial intelligence tools were also considered to help complete the work accurately.

Results

From the visits, we obtained rather undesirable results.
It was confirmed that there is a lack of geologist participation and insufficient training of workers regarding the negative impacts generated by this intensive activity and how to carry out proper extraction.
Negative impacts were observed, such as contamination of groundwater and uncontrolled extraction.

Conclusion

It was confirmed that there was no participation from a geologist or another qualified professional to carry out this activity.