

# Automatic Quantification of Scaling Bar Impacts – Phase 2

The overall objective of this research is to reduce the subjectivity of mine roof testing using scaling bar impacts by applying artificial intelligence to the sounds generated by the scaling bar.

The main deliverable will be the development of a prototype mine roof testing device, suitable for temporary attachment to a conventional scaling bar. This device can be expected to demonstrate the functionality of a device suitable for commercialization, but may not be the final product in terms of robustness, ergonomics, user interface, etc.

## PROJECT INFORMATION:

**Proponent:** University of Saskatchewan

**Project Duration:** March 2021 to December 2021

**Project Cost:** **\$114,125**

IMII Contribution: \$ 98,125

Industry In-Kind: \$ 16,000