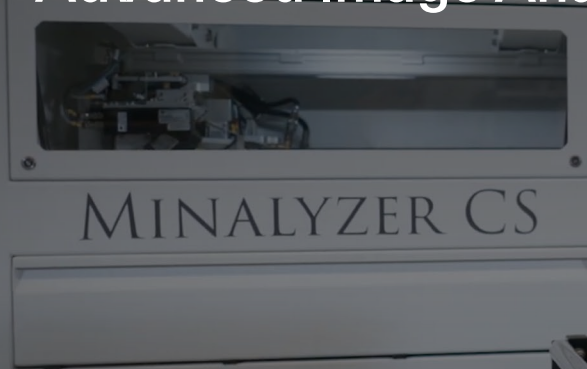**LKAB, Kiruna**
Northern Sweden

Digitizing and automating the core logging workflow

One of Sweden's most established industrial companies, faced the challenge of modernizing its core logging process within the highly competitive and fluctuating mining sector.

Revolutionizing Geological Analysis with Advanced Image Analysis Techniques

In 2020, LKAB implemented the Minalyzer technology into their workflow to streamline the core logging process. This innovation allowed for the rapid acquisition of geochemical data directly on-site, before geologists performed visual inspections of the core samples. This approach provided immediate access to critical information, enabling more accurate geological interpretations and a more selective sampling process.

"By introducing the Minalyzer in a regular core logging workflow, we're able to scan the drill core before the geologists look at the core on the core table, and that means that they have access to geochemical data from the scanning when they do the core logging, which means that they can make more accurate geological interpretation of the rocks [...] that means that we don't need to send as much drill core for laboratorial assaying. "

Joel Krispinsson
Group Manager, Near Mine Exploration

ENHANCED GEOLOGICAL DATA INTERPRETATION AND ACCESS

Core scanning provides geologists immediate geochemical data access, allowing for more precise geological interpretations. This new approach enhances understanding of geological formations, marking a significant improvement over traditional core logging methods.

INCREASED EFFICIENCY IN SAMPLING AND RESOURCE ALLOCATION

By leveraging the Minalyzer's detailed insights, LKAB has optimized its sampling process, reducing the need for extensive laboratory assaying. This selectivity in sampling leads to faster, more efficient identification of ore grades, improving resource estimation and conservation.

RAPID DATA ACQUISITION AND ANALYSIS

Replacing weeks-long waits for laboratory results, the MyAnalyzer delivers immediate geochemical data, dramatically accelerating the exploration process. This swift data turnaround facilitates agile decision-making and operational adjustments, enhancing overall efficiency in resource management.

Completed using:

Minalyzer CS