



Critical Minerals Strategy

MUD® satellite-mapping leads the race in lithium deposit exploration

As global governments and industries work to achieve green energy goals, the demand for critical minerals is expected to dramatically increase. Indeed, critical minerals are seen as the building blocks for the future of a global green and digital economy. Lithium, in particular, is viewed as essential to clean technologies and innovation.

What Makes MUD® Mapping Technology Stand Out?

MUD® is a proven exploration tool that decreases time and cost during the exploration and development phase. By employing specialized satellite technology, Auracle's MUD® system can increase the discovery rates for new lithium deposits and provide crucial unknown intelligence for developing existing deposits. This capability provides operators a way to cut cost and time in a sustainable way.

Auracle's pioneering investigation of the subsurface began with the application of satellite hyperspectral and Synthetic Aperture Radar (SAR) data to discern geological structures, features and units. By combining proprietary acquisition and processing algorithms, Auracle developed a robust automated tool which led to the ability to map and model subsurface geological structures, features and units. MUD® works at, near and underneath the Earth's surface to "see through" water, deep vegetation, ice, snow, rocks and soil to identify structures and lithologies. MUD® maps and models the subsurface and underwater, from space, with the highest resolution available and maintains accurate results, day or night, through all weather and in remote and inaccessible areas.

How MUD® Contributes to Global Strategy to Locate and Develop Lithium Deposits

Finding faster and better ways to detect lithium deposits have been identified as critical in global strategies to reduce potential critical mineral supply shortages. Investment in the production and exploration of lithium and high prices will stimulate a need for innovative technologies that cut time and costs.

Auracle's MUD® 3D subsurface technology successfully maps and models pegmatite and brine-type lithium deposits, under 100 m of overburden. The MUD® system is a fully-developed proprietary application and is positioned for full production to sustainably explore for and develop critical lithium sources.

Auracle pioneers exploration tools and initiatives that champion safe and sustainable practice. Because MUD® is conducted remotely, it creates no unnecessary human footprint, requires no social license and does not cause cultural interference. MUD® answers the global demand to balance critical mineral exploration and development and environmental conservation.