

AGC

AL HAYTHAM GENERAL CONTRACTING
الهيثم للمقاولات العامة



AL HAYTHAM

MINERAL EXPLORATION AND GEOTECHNICAL SERVICES



رؤية VISION



المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

MINERAL EXPLORATION



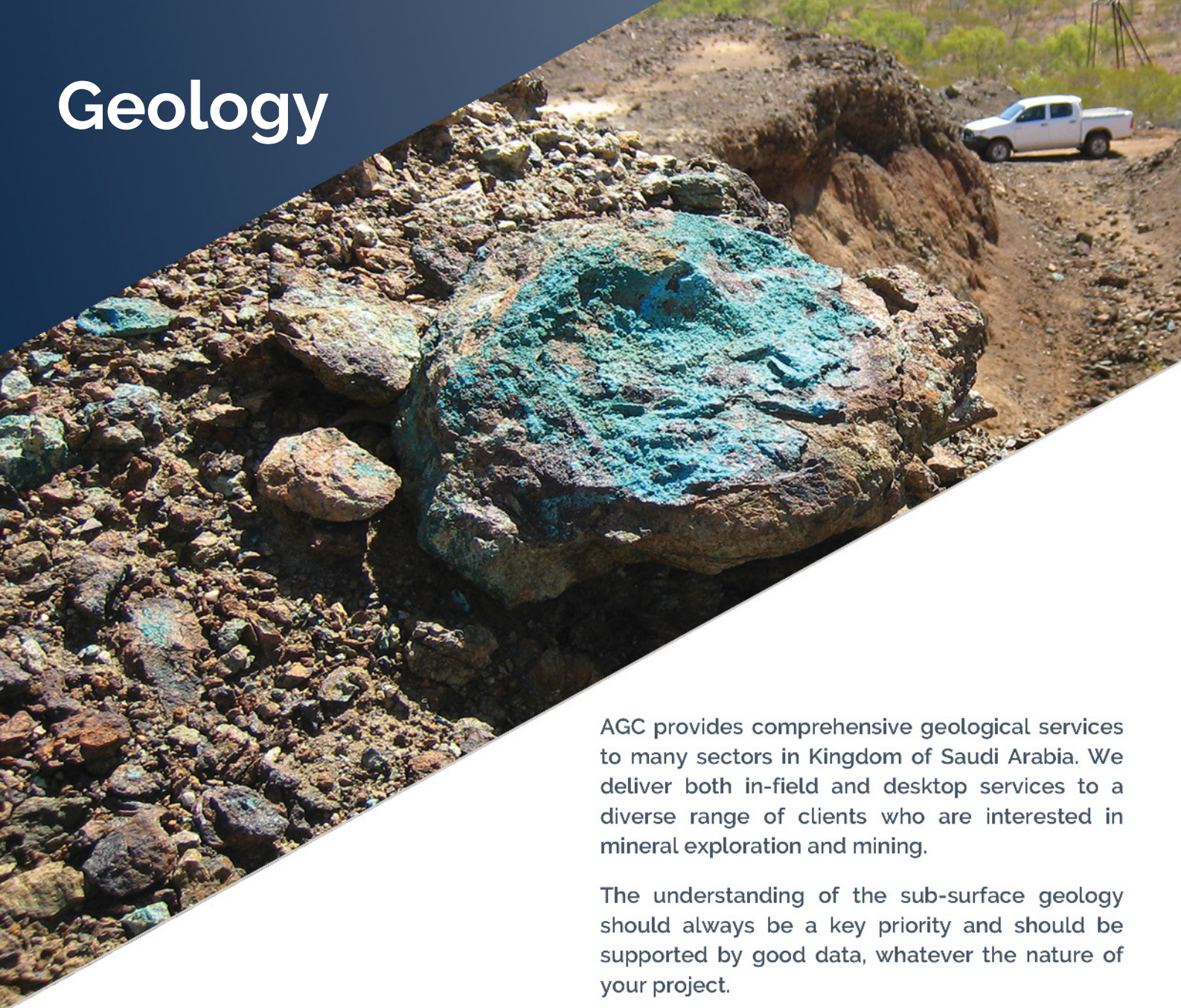
We offer a wide range of exploration services, reflecting our broad geological interests and the diverse expertise of our team. In general, we get involved with projects from grassroots exploration through to the pre-feasibility stage, and these can range from a simple property evaluation and technical report preparation to running and managing entire exploration programs, depending on the client's needs.

AGC's team has proven expertise in a wide variety of geological settings and deposit types. We always adhere to current best practices in health and safety and environmental management, while ensuring that all exploration work is undertaken and completed in compliance with international standards.

Our Mineral Exploration Services

- Geology
- Samples Preparation
- Orebody Modelling and Mineral Resource and Mineral Reserve Estimation
- Mineral Exploration Project Management

Geology



AGC provides comprehensive geological services to many sectors in Kingdom of Saudi Arabia. We deliver both in-field and desktop services to a diverse range of clients who are interested in mineral exploration and mining.

The understanding of the sub-surface geology should always be a key priority and should be supported by good data, whatever the nature of your project.

At AGC we have the technical "know-how" and the experience to progress a geological project through all of the required stages.



Desk Studies

Geological desk studies is the cornerstone on which to start exploration work, including viewing all available geological “regional, local and detailed” studies, every publication in scientific journals, scientific research institutions and industrial enterprises with using the satellite images to identify the nature of the rocks and the topography of the area and regional structural geology.

Reconnaissance Geological Studies

In this stage the technical team carries out field visits to check the availability of logistics for the project, in addition to recording the geological field observations to identify the main types of rocks and geological structures and general geological properties of the study area.

Geology

Surface Geological Exploration Studies

Lithostratigraphic Studies

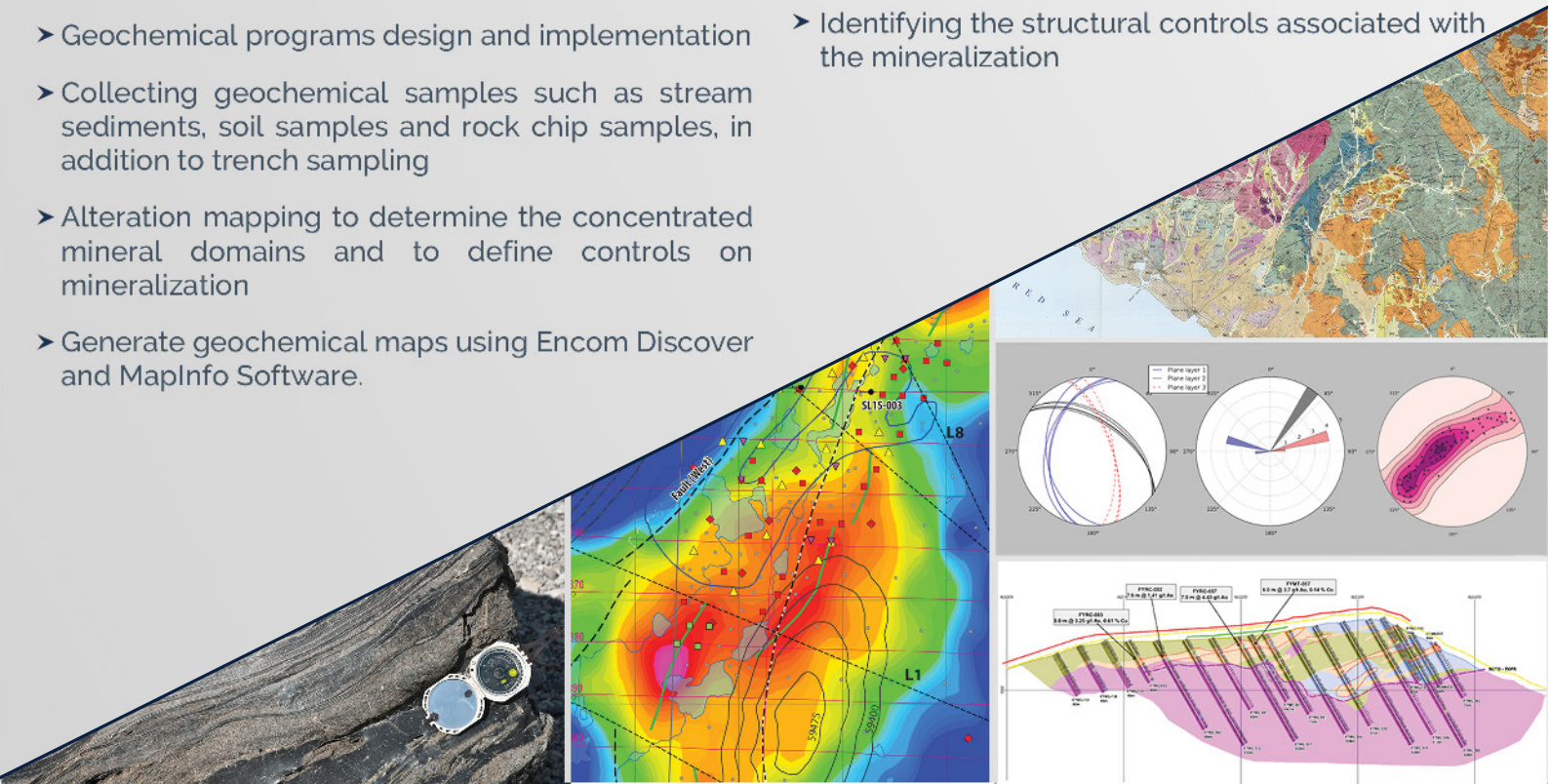
- Identify the time of deposition and depositional environment of sedimentary deposits
- Petrographic and ore-microscopy studies
- Geological Mapping

Geochemical Studies

- Geochemical programs design and implementation
- Collecting geochemical samples such as stream sediments, soil samples and rock chip samples, in addition to trench sampling
- Alteration mapping to determine the concentrated mineral domains and to define controls on mineralization
- Generate geochemical maps using Encom Discover and MapInfo Software.

Structural Studies

- Carrying out geological structures measurements
- Defining the structural relationship between rock units
- Plotting the structural maps using Encom Discover and MapInfo Software
- Statistical analysis of structural data using stereographic projection of Stereonet program
- Identifying the structural controls associated with the mineralization





Exploration Studies for Drilling Programs

- Core/RC geological logging and core structural and geotechnical logging in compliance with international industry standards.
- Capturing and analyzing core samples photography.
- Storing, managing and validating all drilling data (eg. collars, downhole survey, core orientation, geological, structural and geotechnical logging, photography, assay results and specific gravity measurements).
- Generation of drillhole logs.
- Interpretation of multiple datasets in an integrated 2-Dimensional environment using Encom Discover MapInfo Software.
- Generation of Isopach maps to determine the thickness of the subsurface layers.
- Generation of Isopleth (Grade) maps to determine the chemical properties distribution of the subsurface layers.



Samples Preparation

Sample preparation is a vital stage in the analytical process. Correct preparation procedures allow representative sub-sampling which is the foundation of quality analysis. The selection of the specific sample preparation procedures will depend on the type and size of the sample and the mineralogy as well.

AGC is capable of carrying out samples preparation (drying, crushing, splitting, pulverizing and packing). We have all the equipment and workforce necessary to carry out this mission successfully.

Our samples preparation facility is equipped with the following:

- Ovens
- Rocklabs Boyd Standard Crushers
- Riffle Splitters
- FLSmidth LM2 Pulverizing Mills
- Normal and Digital scale
- Sieves

Project Management



Our specialties in mine development, planning and project management can extend the life of a mine, using the latest techniques and specialized equipment, and also provides more profitable approaches to mining projects, new ways to overcome problems and ensuring optimal equipment utilization with safety as a priority.



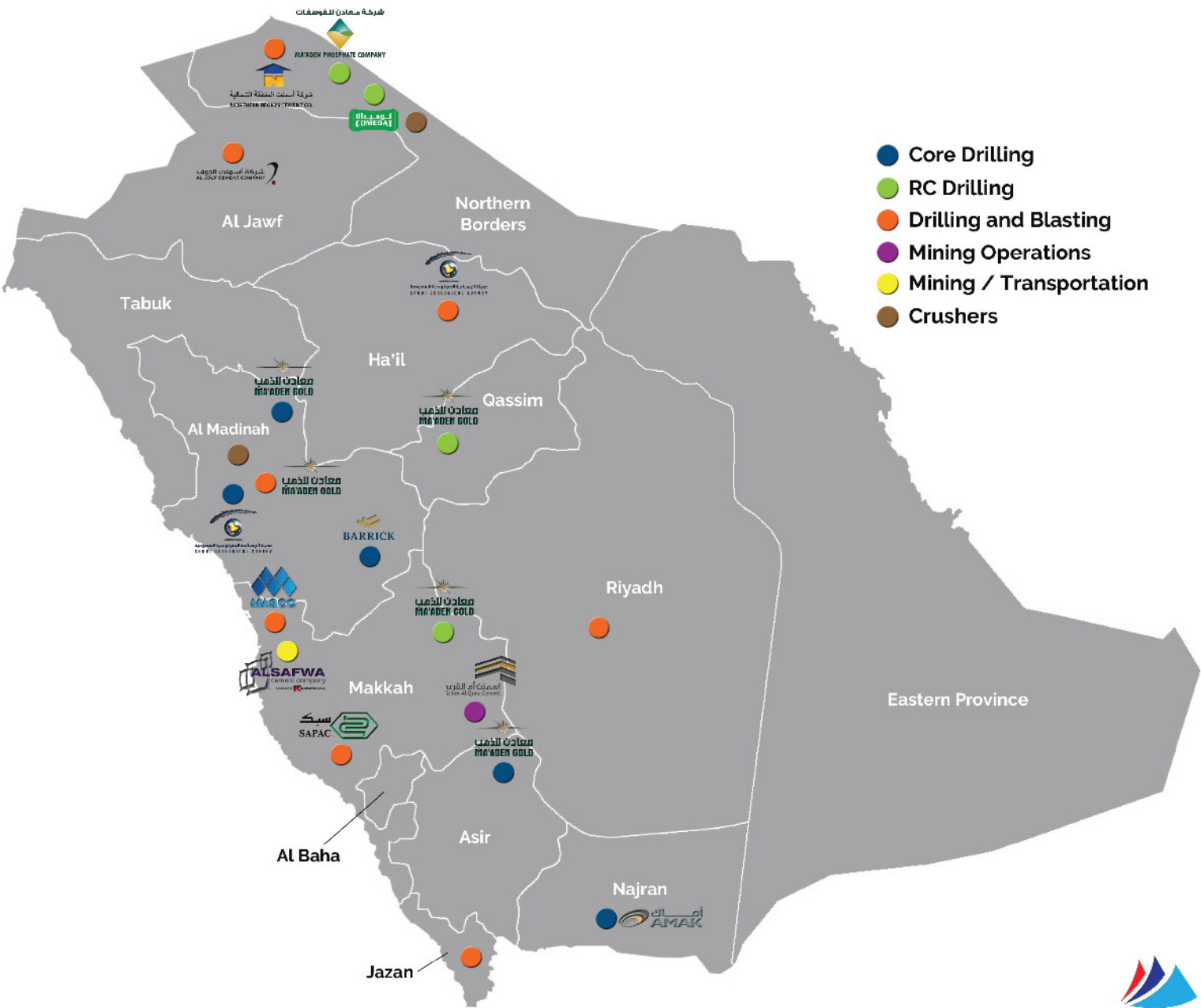
We provide Full implementation and management of exploration programs, including:

- Project design and budgeting
- GIS and remote sensing
- Regional geological studies and advice on mineral targeting
- Geological, structural, alteration and regolith mapping
- Geochemical Sampling (soil samples, stream sediments and rock chips) and Trenching programs design, planning and implementation.
- Mineralogical and ore microscopy studies
- Drilling projects design, planning and implementation
- Core/RC geological logging and core structural and geotechnical logging in compliance with international industry standards
- Capturing and analyzing core samples photography
- Core/RC sampling and samples preparation
- QA/QC design, implementation and reporting
- Assay contracting and management and specific gravity measurements
- Storing, managing and validating all project data
- Geological data analysis through 3D orebody modelling and mineral resource and mineral reserve estimation in compliance with international industry standards
- Technical Report writing and review in compliance with international industry standards

Our Partners



Our Services Coverage in KSA





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