

MINING AND GEOLOGY DEPARTMENT

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Technical Support

WoDA's Mining & Geology Department operates in a range of geo-mining areas through a dedicated team of geologists, engineers, economists and specialists with experience in more than 50 countries.

WoDA provides technical, marketing and project management expertise in small mining, quarrying, open pits and underground mine operations and investments, groundwater and waste management projects.

The client is assisted in the complete project from the initial exploration for the identification of the best sites to the recovery of exhausted quarries. This includes the feasibility study, the excavation design, the equipment layouts, the mitigation of social and environmental hazards, procedures and training for safety, project development and monitoring.

WoDA provides extensive experience in exploration: logistic organisation, supervision, grass-root exploration, mapping, on site and laboratory tests, prospect modelling and ore body evaluation. We also offer proven knowledge in core logging, structural control on mineralizing fluid flow, sedimentary and magma-related ore deposits, greenstone belts and high-grade gneiss rocks, mineral alteration.

WoDA provides an integrated approach and a full range of competencies in projects that combine mining, infrastructures, community and private sector development. The Clients are much satisfied with our analysis, reporting and training services.



Geology, exploration and implementation

- Search, evaluation and geo-mining studies of raw stone materials, metallic and precious minerals, industrial minerals, dimension stones and construction materials
- Structural and sedimentological analysis
- Planning and attending drilling and other sampling campaigns
- Interpretation of field data
- Geological and other thematic field mapping
- Mining-quarry assessment
- Equipment lay outs
- Evaluation, planning, up-grading of green-field and expansion quarrying and processing projects
- Mining investment plans
- Opportunity, pre-feasibility and feasibility studies.

Applied geology and water

- Geology and geomechanics for tunnelling and hydroelectric power plants
- Landslide studies, monitoring and prevention
- Geotechnical studies and analyses for housing and other engineering work
- Hydrogeological analyses and studies for various targets and Water resource protection and saving.

Developing mining as a living system of modern enterprises, infrastructures, environment, communities, institutional framework

WoDA actively assists investments in natural resources with:

- Economic impact assessments
- Analysis for policy, governance and innovation
- Institutional capacity building
- Programme or project formulation
- Technical analysis.

Directly involved in business development, WoDA is well positioned to assist companies with:

- Commercial viability analysis and business planning
- Joint venture or partnership facilitation
- Clustering initiatives that link private sector, government and the civil society
- Supply chain development initiatives.

In support of organisations focused on economic development (local economic development, job creation, poverty alleviation), WoDA identifies and formulates programmes or projects by combining internationally recognised best practises with innovative and participatory approaches appropriate to the requirements.



Marketing

- Market and Country analysis
- Market tests and contacts with potential partners & customers
- Contacts with equipment manufacturers.



Mining is short term activities with long term effects

WoDA constantly assesses its approach to the mining sector particularly concerning development impacts, responsible behaviours and environmental sustainability. Our initiatives aim at integrating environment protection into supply chains or sector development:

- Environmental impact assessment, analyses and compatibility studies
- Waste dumping studies and planning
- Advice on waste management policy and regulatory issues
- Feasibility studies for waste facilities
- Studies and plans for geo-mining “parks”.



Integrating women into mining work place

WoDA supports opportunities that ensure sustainable impact projects in the local communities through the following actions:

- Community outreach: consultive structures to better understand and meet the socioeconomic needs of rural mining communities and women groups
- Training opportunities in the mine with the creation of vocational facilities for artisans, communities and women
- Support to the creation of cooperatives/consortium that own and operate stone quarries
- Building Capacity for economic diversification through income generating opportunities, directly and indirectly related to mining activities, supported by microfinance programme.



Training and capacity building



In all our projects, the mining department works closely with Ministries, regional offices, local authorities and multi stakeholders to provide technical and capacity building support for the sustainability of mining industry. In a series of its mining assignment WoDA supports capacity building programs for small scale miners with advocacy and business development services.