



# Sustainability

> *Presentation of line of work*

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VANTAZ  
Specialized  
Mining  
Consulting



# The Vantaz Group

We are a group of international companies, with a presence in Chile, Peru, and Australia, born out of the need to provide a comprehensive value proposition to the mining industry.



Offices:



Chile



Australia



Peru



USA





# Our sustainability line





— At Vantaz, we take care of the complete sustainability chain of a mining company, including health and safety, environment, and communities:



- In conjunction with our customer's business, Vantaz advises on the implementation of risk models, leadership strategies for safety, and incident reporting.



- Vantaz has a technical team that establishes health baselines, implements hygiene standards, and occupational illness prevention standards.



- At Vantaz, we work with the customer to develop strategies and programs on environmental management initiatives to identify, control, and report regulatory risks and operational risks with environmental consequences.



- Vantaz applies its knowledge in management to design strategies and models for managing social projects derived from social investment, commitments derived from agreements with the community, or commitments derived from socio-environmental permits.



## Consultancy and services in health and safety

### Capacity

Risk management  
for health and safety



Reporting



Leadership  
in safety



Implementation  
of technologies  
for safety



### Where we add value

- We identify safety risks, use of BowTie, identification of critical controls.
- We formulate implementation plans and standards.
- We study the origin and quality of data.
- We formulate and establish reporting flows.
- We generate executive reports and establish bases for learning and data analysis.
- We establish visible leadership practises.
- We study the degree of involvement of leaders.
- Consequence and reinforcement strategies.
- Corporate communications on safety.
- Implementation of ERP tools (e.g., Cority, OPAT, others).
- Implementation of anti-collision and fatigue monitoring devices (e.g., SmartCap).





# Environmental consulting and services

## — We support business management

- We implement organised management models with follow-up and reporting work programs.
- These integrate into leadership management to give visibility to the risks that exist for the business and all levels of organisation to achieve cultural change.

## — We support the road to excellence

- We support the day-to-day work in relation to the environment, with a detailed review of commitments and demands and their implications.
- We undertake strategic analyses to ensure the resolution or compliance with a permit, investigation into an incident, or inspection.





# Environmental consulting and services

## — Scope of services



- Environmental strategy in study or engineering stages.
- Strategy for environmental incidents.
- Trend studies.



- Regulatory compliance.
- Monitoring program optimisation.
- Management, control, and follow-up models.



- International standards.
- Operating solutions in the context of climate change.
- Environmental economy.



## Strategic Services:

- Environmental strategy in study or engineering stages.
- Strategy for environmental incidents.
- Trend studies.

## Environmental consulting and services

### Scope of services

#### — Environmental strategy in study or engineering stages

- Analysis of technical definitions of the project vs. the socio-environmental and territorial context.
- Identification and estimate of the project's environmental costs.
- Estimate of the carbon price for the assessment of Capex in companies.
- Review of study considerations that may generate risks during the EIA/DIA process.
- Strategy proposals and recommendations for mitigation plans considered in the EIA/DIA.

#### — Strategy for environmental incidents

- Study of events in an environmental incident.
- Impact and risk analysis.
- Mitigation strategies towards the authorities, community, processes, and internal structure.

#### — Trend studies

- New regulatory requirements.
- Trends in technologies for mine operation.
- Structure, systems, and management models.





## Operational Management:

- Regulatory compliance.
- Monitoring program optimisation.
- Management, control, and follow-up models.

## Environmental consulting and services

### Scope of services

#### — Regulatory compliance

- Construction/review of environmental compliance plans for the authorities, ensuring that the proposals are economically viable for the business.
- Follow-up to the SMA Penalty Processes.
- Quality of reports submitted to the authorities, eliminating errors or imprecisions in the information submitted.
- Identification and accompaniment in the management of sectoral permits.

#### — Monitoring program optimisation

- Review of the monitoring model applied in companies (adequate statistical design, frequency, methodology, etc.).
- Assessment of key service providers for the monitoring program before and during service.
- Ensured traceability and coherence in the public and non-public monitoring information.

#### — Management, control, and follow-up models

- Definition of management models (internal vs. outsourcing) and work programs.
- Control of progress in programs and reporting.
- Follow-up on key environmental management indicators.
- Change management and implementation of technologies.



## Climate Change:

- International standards.
- Operating solutions in the context of climate change.
- Environmental economy.

## Environmental consulting and services

### Scope of services

#### — International standards

- Analysis of international standards and their application in company processes.
- Review and application of the methodology for calculating the carbon footprint, water balance, GHG emissions, and others required by standards.

#### — Operating solutions in the context of climate change

- Management of key environmental components, such as the use of sea water in mining.
- Analysis of operational issues that are monitored, such as wind, rough waters, etc.
- Management of initiatives/projects against global warming, energy efficiency, and optimisation in the use of resources.

#### — Environmental economy

- Determination of the economic value of the companies' environmental compliance plans, considering associated costs and benefits.
- Economic analysis of the compensation measures that a company may have, considering efficacy and efficiency, to define the best alternatives.
- Analysis of circular economy in industrial processes, identifying where to recover and reuse products and materials, optimize the use of resources and their life cycle, and promote system efficacy.



# Consulting and services in communities

- At Vantaz, we contribute to generating social value from mining companies, considering the different aspects of the community strategy:



## Management of the social strategy

- Strategic objectives and social impacts.
- Standards and best international practices.
- Social market indicators.



## Management of social stakeholders

- Social investment.
- Investment in the local economy.
- Social contribution.
- Geographic challenges.
- Social communication.
- Socio-operational controversies.



## Implementation and control of social management

- Social commitments.
- Socio-operational commitments.
- Legal commitments.

## Management of social risk

- Causes and events of social risk.
- Social claims.
- Risk protection factors.





## Consulting and services in communities

### Capacity

Analysis of  
territorial critical  
points



Operation model



Management of  
social projects



### Where we add value

- Analysis of environmental factors and operational infrastructure present in the territories.
- Analysis of social critical points.
- Identification of critical territories.
- Definition of strategic priorities and budget modelling.
- Definition of organisation and roles, leadership teams, management teams, territorial teams.
- Alignment of territorial teams.
- Formulation of a standard for social project management.
- Reports by portfolio, territory, or critical level. Physical, financial, and administrative progress
- Management analysis.



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