



CRIRSCO: Atualização do Template Internacional

Edson Ribeiro, CRIRSCO Deputy Chairperson
Agosto 2021

Por que o CRIRSCO foi criado?

Em resposta a casos de fraude e especulação que comprometeram a credibilidade e os investimentos na indústria mineral, o Comitê para Padrões Internacionais de Declaração de Reservas Minerais (CRIRSCO) foi criado para ***“promover as melhores práticas internacionais para a declaração de resultados de exploração mineral, recursos minerais e reservas minerais”***

Baseado nos Princípios de Transparência, Materialidade e Competência, estabelece um quadro para um padrão mínimo a ser observado globalmente.

Relevante para todos os minerais sólidos

14 Membros (National Reporting Organizations)

CRIRSCO members as at September 2019



Candidatos atuais:

China, Filipinas, Peru, Equador, México, Malásia, Quirguistão, Azerbaijão, Botsuana e Argentina

CRIRSCO: Documentos de Referência



Terms of Reference

September 2019



Organisational Statutes

September 2019



Membership Application Policy and Process

September 2019



INTERNATIONAL REPORTING TEMPLATE

for the public reporting of

EXPLORATION TARGETS, EXPLORATION RESULTS, MINERAL RESOURCES AND MINERAL RESERVES

November 2019

ICMM
International Council
on Mining & Metals

Em sua reunião anual de 2019 os representantes dos membros do CRIRSCO aprovaram a atualização dos documentos de referência, incluindo o Template Internacional.



INTERNATIONAL REPORTING TEMPLATE

for the public reporting of

EXPLORATION RESULTS, MINERAL
RESOURCES AND MINERAL RESERVES

November 2013



INTERNATIONAL REPORTING TEMPLATE

for the public reporting of

EXPLORATION TARGETS, EXPLORATION
RESULTS, MINERAL RESOURCES AND MINERAL
RESERVES

November 2019



The Standard Definitions in the Template are:

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Formatação com maior Transparência

4 Public Reports are reports prepared for the purpose of informing investors or potential investors and their advisers on Exploration Results, Mineral Resources or Mineral Reserves. They include, but are not limited to annual and quarterly company reports, press releases, information memoranda, technical papers, website postings and public presentations.

The Template indicates the required minimum standard for Public Reporting and is recommended as a minimum standard for other reporting. Companies are encouraged to provide information in their Public Reports, which is as comprehensive as possible.

Public Reports include but are not limited to: company annual reports, quarterly reports and other reports to regulatory authorities, or as required by law. The Template applies to other publicly released company information in the form of postings on company web sites, press releases and briefings for shareholders, stockbrokers and investment analysts. The Template also applies to the any reports that have been prepared for the purposes described in Clause 4, such as environmental statements; Information Memoranda; Expert Reports, and technical papers referring to Exploration Results, Mineral Resources or Mineral Reserves. They may also be for the purpose of satisfying regulatory requirements.

For companies issuing concise or similar annual reports, or other summary reports, inclusion of all material information relating to Exploration Results, Mineral Resources and Mineral Reserves is recommended. In cases where summary information is presented it should be clearly stated it is a summary, and a reference attached giving the source and location of the Template-compliant Public Reports or Public Reporting on which the summary is based.

Public Reports

Definition	2.9 Public Reports are reports prepared for the purpose of informing investors or potential investors and their advisers on <u>Exploration Targets, Exploration Results, Mineral Resources or Mineral Reserves</u> . They include but are not limited to annual and quarterly company reports, media releases, information memoranda, technical papers, website postings and public presentations.
Code	<p>2.10 Public Reports include but are not limited to company annual reports, quarterly reports and other reports to regulatory authorities, or as required by law.</p> <p>2.11 The reporting and disclosure requirements addressed in the Template apply equally to all publicly released company information in the form of postings on company web sites, social media, press releases and briefings for shareholders, stockbrokers and investment analysts.</p> <p>2.12 The Template also applies to any reporting of Exploration Targets, Exploration Results and/or Mineral Resources and Mineral Reserves and made publicly available for other purposes, such as those contained in:</p> <ul style="list-style-type: none"> • Environmental statements; • Information memoranda, • Expert Reports; and, • Technical papers. <p><i>Of particular concern should be postings made using social media where it may be inferred that the information being released comprises a Public Report.</i></p> <p><i>Note that any or all such Public Reports may also be for the purpose of satisfying regulatory requirements.</i></p>
Guidance	

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- 3 Princípios Básicos: Transparência, Materialidade e Competência
- 16 Definições Padrão, um gráfico simples
- Governança Clara:
 - Comitê Global, Executiva, Comitês Permanentes e Grupos de Trabalho
 - Organizações Nacionais/Regionais
 - Associações Profissionais
 - Pessoas Competentes/Profissionais Qualificados

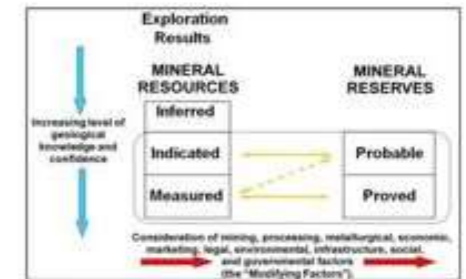


Figure 1. General relationship between Exploration Results, Mineral Resources and Mineral Reserves



Os requisitos de CP/QP incluem formação acadêmica, experiência profissional, código de ética, código disciplinar e desenvolvimento profissional contínuo

dedicado a uma indústria de mineração e metais segura, justa e sustentável



Benefícios da adoção do Sistema CRIRSCO

- Promove as melhores práticas
- Linguagem comum, baseada em definições padrão
- Comparativo para transações/projetos/ minas etc.
- Compreensível para profissionais de outras áreas
- Base para avaliações de ativos
- Orientação às Pessoas Competentes
- Auto regulação
- Responsabilidade
- Gestão e Mitigação de Riscos



4.1 The CRIRSCO Standard Definitions for the defined terms should be considered in conjunction with Figure 1.

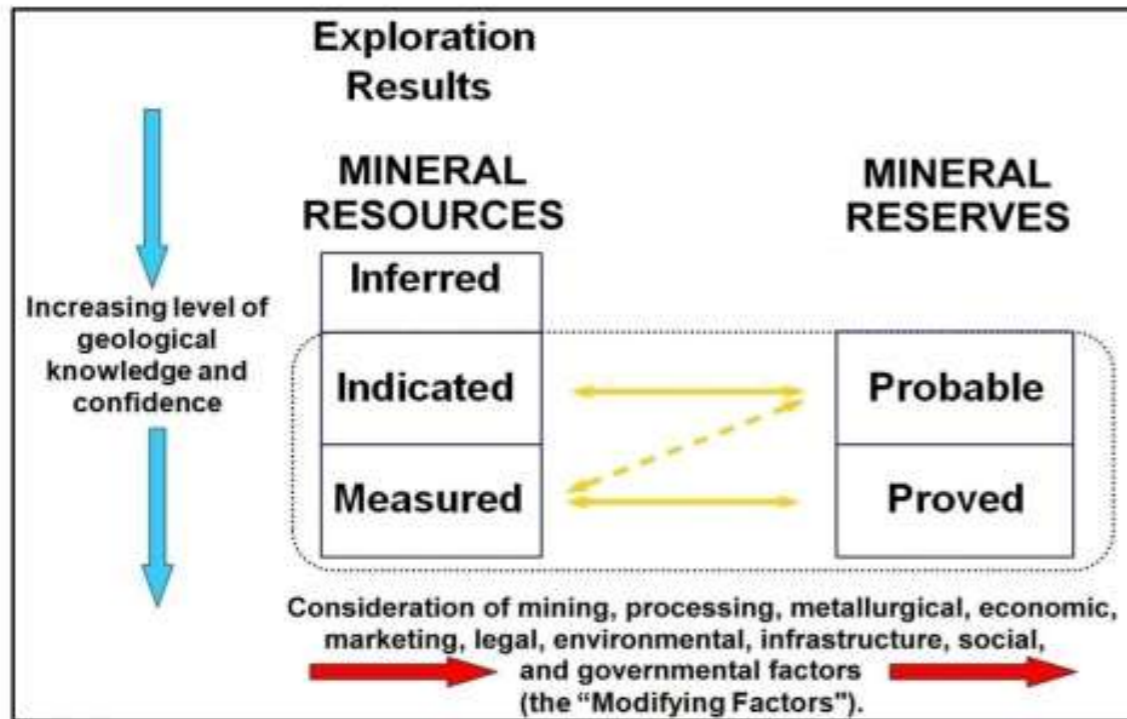


Figure 1. General relationship between Exploration Results, Mineral Resources and Mineral Reserves

Modifying Factors

Definition	4.7
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Guidance	

4.7 **Modifying Factors** are considerations used to convert **Mineral Resources** to **Mineral Reserves**. These include, but are not restricted to, mining, processing, metallurgical, infrastructure, economic, marketing, legal, environmental, social and governmental factors.

4.8 The effect of any of a Modifying Factor on the likely viability of a project and/or on the estimation and classification of the Mineral Reserves must be fully explained.

4.9 Refer also to the requirements for reporting Mineral Reserves contained in Clauses 8.1 to 8.23.

Figure 1 sets out the framework for classifying tonnage and grade estimates to reflect different levels of geological confidence and different degrees of technical and economic evaluation.

Mineral Resources can be estimated mainly based on geological information with some input from other disciplines.

Mineral Reserves, which are a modified sub-set of the Indicated and Measured Mineral Resources (shown within the dotted outline in Figure 1), require consideration of the Modifying Factors affecting extraction, and should in most instances be estimated with input from a range of disciplines.

Although the trend of the broken arrow includes a vertical component, it does not, in this instance, imply a reduction in the level of geological knowledge or confidence. A Measured Mineral Resource may convert to a Probable Mineral Reserve when the confidence in any of the Modifying Factors is less than the level of geological knowledge or confidence. In such a situation these Modifying Factors should be fully explained.



COMMITTEE FOR MINERAL RESERVES
INTERNATIONAL REPORTING STANDARDS