

# PERC 2021 DEFINITIONS SUMMARY SHEET

**2.3 A Mineral** is any substance, extracted for value, occurring naturally in or on the Earth, in or under water or in tailings, residues or stockpiles, having been formed by or subjected to a geological process but excludes, water, oil and gas.

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

**3.2 A Competent Person** is a Minerals industry professional, defined as a **professional member, registrant or licensee of a Recognised Professional Organisations (RPO) in the list of professional organisations accredited by PERC**, with enforceable disciplinary processes, including the powers to suspend or expel a member.

A Competent Person must have a minimum of five years relevant experience in the style of mineralisation or type of Mineral deposit under consideration and in the activity which that person is undertaking.

**4.8 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 governance ('ESG') and regulatory factors**.

**5.1 Exploration Results** include **data and information generated by Mineral exploration programmes** that might be of use to investors or potential investors and their professional advisers, but which do not form part of a declaration of Mineral Resources or Mineral Reserves.

**5.12 An Exploration Target** is a statement or **estimate of the exploration potential of a Mineral deposit** in a defined geological setting where the statement or estimate, quoted as a range of tonnes and a range of grade or quality, relates to mineralisation for which there has been insufficient exploration to estimate Mineral Resources.

**6.1 A Mineral Resource** is a concentration or occurrence of solid material of economic interest in or on the Earth's crust in such form, grade or quality and quantity that there are **reasonable prospects for eventual economic extraction**.

The location, quantity, grade or quality, continuity and other geological characteristics of a Mineral Resource are known, estimated or interpreted from specific geological evidence and knowledge, including sampling.

Mineral Resources are subdivided in order of increasing geological confidence into Inferred, Indicated and Measured categories.

**6.5 An Inferred Mineral Resource** is that part of a Mineral Resource for which quantity and grade or quality are estimated on the basis of limited geological evidence and sampling.

Geological evidence is **sufficient to imply but not verify geological and grade or quality continuity**.

An Inferred Mineral Resource has a lower level of confidence than that applying to an Indicated Mineral Resource and must not be converted to a Mineral Reserve. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration.

**6.9 An Indicated Mineral Resource** is that part of a Mineral Resource for which quantity, grade or quality, densities, shape and physical characteristics are **estimated with sufficient confidence to allow the application of Modifying Factors in sufficient detail to support mine planning and evaluation of the economic viability** of the Mineral deposit.

Geological evidence is derived from the adequately detailed and reliable exploration, sampling and testing and is sufficient to **assume geological and grade or quality continuity between points of observation**.

An Indicated Mineral Resource has a lower level of confidence than that applying to a Measured Mineral Resource and may only be converted to a Probable Mineral Reserve.

**6.11 A Measured Mineral Resource** is that part of a Mineral Resource for which quantity, grade or quality, densities, shape, and physical characteristics are **estimated with confidence sufficient to allow the application of Modifying Factors to support detailed mine planning and final evaluation of the economic viability** of the Mineral deposit.

Geological evidence is derived from the detailed and reliable exploration, sampling and testing and is sufficient to **confirm geological and grade or quality continuity between points of observation**.

A Measured Mineral Resource has a higher level of confidence than that applying to either an Indicated Mineral Resource or an Inferred Mineral Resource. A Measured Mineral Resource may be converted to a Proved Mineral Reserve or to a Probable Mineral Reserve.

**NOTE:** Definition Numbers are from the PERC Reporting Standard 2021; alternate definitions are shaded in blue to improve legibility. Defined terms are underlined; key phrases are highlighted in dark blue bold text.

**7.1 A Mineral Reserve** is the economically mineable part of a Measured Mineral Resource and/or Indicated Mineral Resource. It includes diluting materials and allowances for losses, which may occur when the material is mined or extracted and is defined by studies at a Pre-Feasibility Study or Feasibility Study level, as appropriate, that include application of Modifying Factors.

Such studies **demonstrate that, at the time of reporting, extraction could reasonably be justified.**

The reference point at which Mineral Reserves are defined, usually the point where the Mineral is delivered to the processing plant, must be stated. It is important that, in all situations where the reference point is different, such as for a saleable product, a clarifying statement is included to ensure that the reader is fully informed as to what is being reported.

Mineral Reserves are subdivided in order of increasing confidence into Probable and Proved categories.

**7.8 A Probable Mineral Reserve** is the economically mineable part of an Indicated Mineral Resource, and in some circumstances, a Measured Mineral Resource.

The confidence in the Modifying Factors applying to a Probable Mineral Reserve is lower than that applying to a Proved Mineral Reserve.

**7.10 A Proved Mineral Reserve** is the economically mineable part of a Measured Mineral Resource.

A Proved Mineral Reserve **implies a high degree of confidence in the Modifying Factors.**

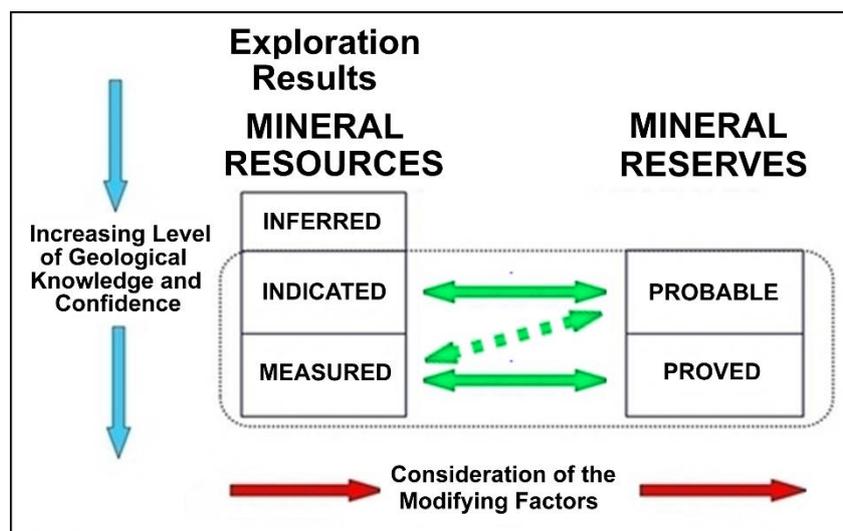
**8.3 A Scoping Study** is an order of magnitude technical and economic study of the potential viability of Mineral Resources that includes appropriate assessments of realistically assumed Modifying Factors together with any other relevant operational factors that are necessary to demonstrate at the time of reporting that **progress to a Pre-Feasibility Study can be reasonably justified.**

**8.6 A Pre-Feasibility Study** is a **comprehensive study of a range of options for the technical and economic viability of a Mineral project that has advanced to a stage where a preferred mining method**, in the case of underground mining, or the pit configuration, in the case of an open pit, is established **and an effective method of Mineral processing is determined.** It includes a financial analysis based on reasonable assumptions on the Modifying Factors and the evaluation of any other relevant factors which are sufficient for a Competent Person, acting reasonably, to determine if all or part of the Mineral Resource may be converted to a Mineral Reserve at the time of reporting.

A Pre-Feasibility Study is at a lower confidence level than a Feasibility Study.

**8.7 A Feasibility Study** is a **comprehensive technical and economic study of the selected development option for a Mineral project** that includes appropriately detailed assessments of applicable Modifying Factors together with any other relevant operational factors and detailed financial analysis that are necessary to demonstrate at the time of reporting that extraction is reasonably justified (economically mineable). The results of the Feasibility Study may reasonably serve as the basis for a final decision by a proponent or financial institution to proceed with, or finance, the development of the Mineral project.

The confidence level of the Feasibility Study will be higher than that of a Pre-Feasibility Study.



**Figure 1: The general relationship between Exploration Results, Mineral Resources and Mineral Reserves**

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