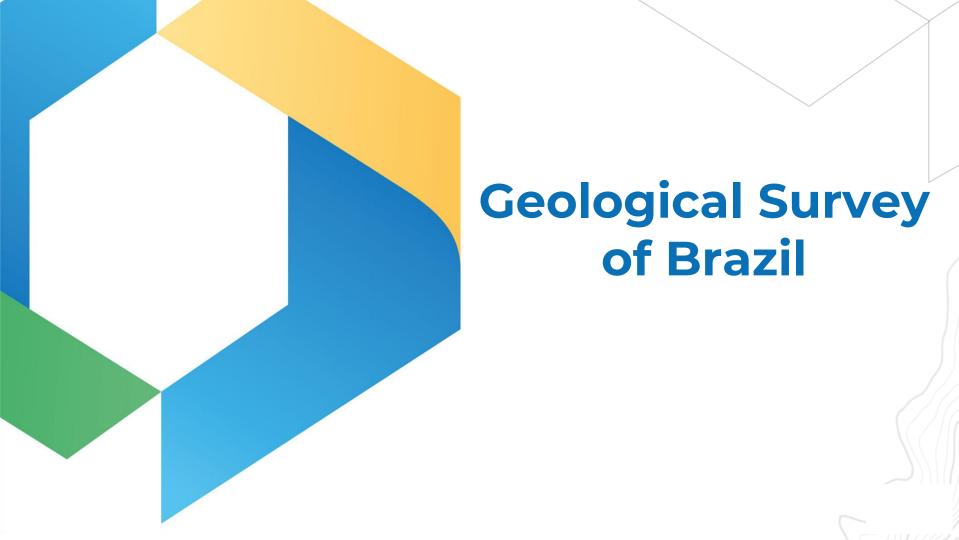




MINISTRY OF MINES AND ENERGY





# Mission, Vision,

The Geological Survey of Brazil is a state-owned company, under the auspices of the Ministry of Mines and Energy, that carries out the functions of the Geological Survey of Brazil.

#### **Mission**

To produce and divulge geoscientific knowledge with excellence, contributing to the improvement of life quality and sustainable development of Brazil.

#### **Vision**

Be a reference in the generation of knowledge and in the development of effective solutions in Geosciences for the well-being of Brazilian society.



# **Values and Principles**



### **Ethical and Transparent Management:**

To consider the **public interest above all**, making available to society mechanisms for monitoring and supervising the company's actions.

#### Technical and Scientific Excellence:

To assure total user satisfaction by **providing products of recognized quality and technical credibility**.

Training and Development:

To make valuing its professional resources one of the institution's scientific and cultural assets.

### **Social Responsibility and Ecological Awareness:**

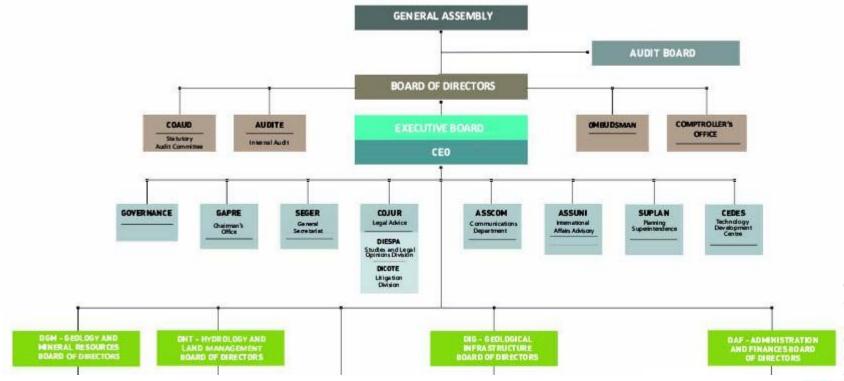
To encourage the sustainable use of mineral and water resources in perfect harmony with the environment and with society's current and future needs.

### **Geology for Society Welfare:**

To **add value to geological knowledge** so that it becomes indispensable to the development of the country's mineral and water sectors and land use.

#### Water - Vital and Strategic Asset:

# **Organization Chart**









295 Analysts (GIS; Oceanography) 551 Technicians (Hydro; Field; Lab.)



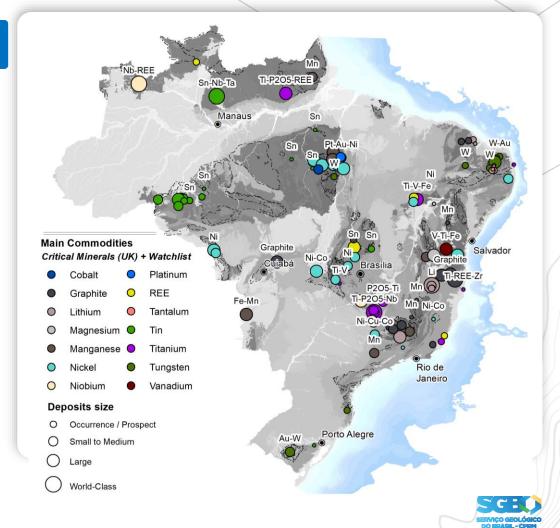
### **565 Researchers**

134 Ph.D. (~23%) 366 M.Sc. (~65%)

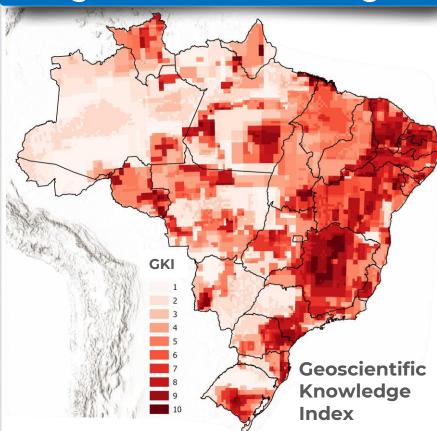


### **Brazilian scenario**

- Top 5 Mineral producers (IBRAM);
- Nearly 90 mineral commodities;
- Solid legislation;
- New mining operations require environmental licenses at three diferente stages of development;
- One of the "Cleanest" Electric Matrix in the world (~83% in 2022; EPE);
- Skilled workforce;



# State-of-the-art of geoscientific knowledge

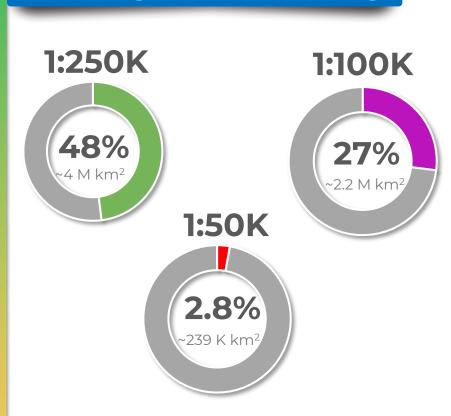


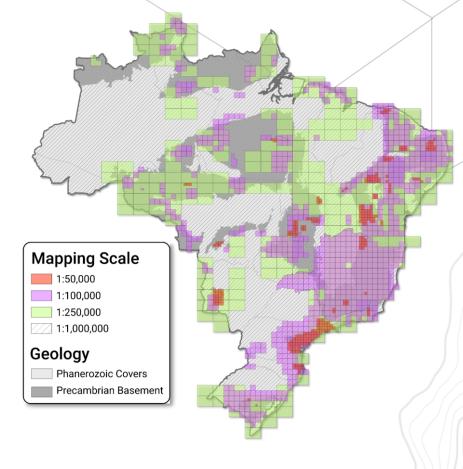
### **Pre-competitive geoscience Data:**

- pre-competitive geoscience information to grow prospectivity;
- reveal new opportunities;
- reduce exploration risk and drive industry investment.



## **Geological Mapping**





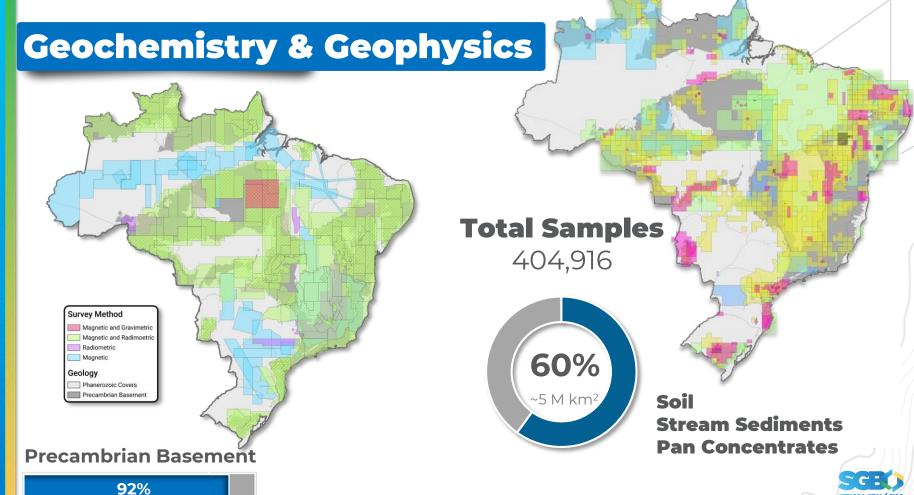
Precambrian Basement

78%

Sedimentary Basins

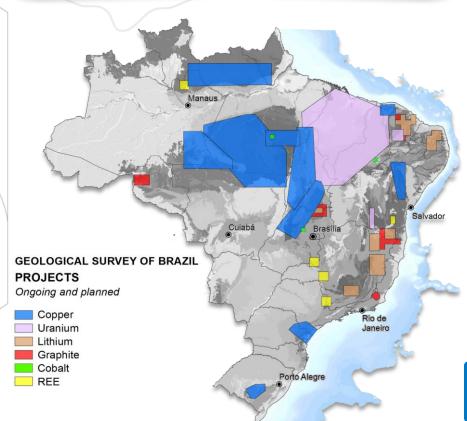
38%







### **Critical Minerals Projects**



### **Main Activities:**

- Integration of different datasets
- Revision of metallogenic models
- Geochemical and Geophysical exploration
- Multi-scale mineral potential modeling
- Footprint Identification
- Estimative of non-discovered resources
- Evaluation of non-conventional resources













### **TAKE-HOME MESSAGES**

- ❖ There will not exist a full energy transition without escalating the production of several critical minerals. This is no longer up for discussion. However, the key question (and opportunity) on the table right now is where to find these resources.
- \* "If you can't grow it, you have to mine it!" Brazil has proven potential to be a major player as a relevant supplier of mineral resources for the energy transition. Brazil has at least one large deposit of each of the listed critical minerals, and its geological framework is suitable for increasing production.
- ❖ In this scenario, the role of the Geological Survey of Brazil is to stimulate mineral activity by increasing the level of geological knowledge and providing pre-competitive geoscientific information, including new techniques, mineral intelligence reports, scenario analysis, and the synthesis of exploration data.





### Merci beacoup!

**Obrigado!** 

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