



*The Brazilian experience with CRIRSCO:
5 years of CBRR*

Edson Ribeiro, July 2021

SEMINARIO LATINOAMERICANO 2021

The ***Brazilian Commission for Resources and Reserves*** - “***CBRR*”** was established in 2015, formed by the alliance of the three most important and representative associations in the Brazilian mineral sector:

- Instituto Brasileiro de Mineração – IBRAM (Brazilian Mining Institute, www.ibram.com.br): with 120 Associates, represents more than 85% of the mineral production in Brazil
- Associação Brasileira de Empresas de Pesquisa Mineral e Mineração – ABPM (*Brazilian Association of Mineral Exploration and Mining Companies*, www.abpm.net.br): representing 34 Members
- Agência para o Desenvolvimento e Inovação do Setor Mineral Brasileiro – ADIMB (*Agency for the Development and Innovation of the Brazilian Mining Sector*, www.adimb.org.br): created in 1996 by IBRAM, the Ministry of Mining and Energy, The National Mining Agency and the Ministry of Sciences, Technology and Innovation, has 31 Associates and is focused on technical projects and professional development

- The MOU with CRIRSCO was signed on May 2015
- Dr. Harry Parker was appointed Sponsor, coordinating the works of a committee responsible for the elaboration of all necessary documents
- On November 2015, during the CRIRSCO annual meeting in Brasilia, CBRR was admitted as its ninth Member, recognized as the Brazilian NRO



CRIRSCO Meeting in Brazil – November 2015

Key Documents



- The Bylaws
 - Define the Governance, the process for complaints and the application of sanctions
- The Guide for Reporting Exploration Results, Mineral Resources and Mineral Reserves
 - Compatible with the CRIRSCO Template, contains the key definitions and guidance to the professionals
- The Code of Ethics
 - With principles to be observed by all individuals involved with CBRR, including Associate Representatives, employees and Registered Qualified Professionals
- The Register Procedure
 - Describes the minimum requirements and the process for registration as a Qualified Professional

The Governance



- General Assembly
 - Composed by the representatives of each of the Associates, is responsible for the dissolution of CBRR or changes in the Bylaws
- Board of Directors
- Advisory Board
 - Appointed by the Board of Directors
- Executive Secretary
 - Staff, responsible for the daily administrative acts and payments
- Standing Committees: Technical Report, Register and Ethics
- Two Representatives at CRIRSCO

The Governance



- Board and committees are composed by six members, three from each of the founding associations, with a two-year term and one renewal
- The reappointment of the President and Vice-President is not permitted, a system of rotation was agreed between the Associates
- New Committees can be created by the Board
- The two Representatives at CRIRSCO must be Registered Qualified Professionals and their mandates are undefined

The professional experience of the 24 professionals who compose the board of directors and committees is well diversified and includes executives and employees of large and small mining companies, law firms, independent consultants and university professors.

Board of Directors 2020/2022



- **PRESIDENT:** Júlio Cesar Nery Ferreira (IBRAM)
- **VICE-PRESIDENT:** Celeste Queiroz Pereira (ADIMB)
- Edson dos Santos Correa Ribeiro (ADIMB)
- Alessandro Henrique Medeiros Silva (IBRAM)
- Miguel Antônio Cedraz Nery (ABPM)
- Walid El Koury Daoud (ABPM)

Register Committee 2020/2022



- President: Márcio Walcacer Tschiedel (ABPM)
- Vice President: Antônio Tadeu Corrêa Veiga (IBRAM)
- Lilian Grabellos de Barros de Moura (ADIMB)
- José Ricardo Thibes Pisani (ABPM)
- Renato Cesar Reveles Pereira (ADIMB)
- Leonardo de Freitas Leite (IBRAM)

Ethics Committee 2020/2022



- President: Luiz Fernando Visconti (ABPM)
- Vice-President: Claudio Fernandes (ABPM)
- Augusto Cesar Bittencourt Pires (ADIMB)
- Eduardo de Albuquerque Ruiz Martins (ABPM)
- Rinaldo César Mancin (IBRAM)
- Alexandre Valadares Mello (IBRAM)

Technical Committee 2020/2022



- President: Leonardo Figueiredo de Faria (ADIMB)
- Vice-President: Ruy Lacourt Rodrigues (ABPM)
- Thomas Lafayette Brenner (ADIMB)
- Giorgio Francesco Cesare de Tomi (ABPM)
- João Felipe Coimbra Leite Costa (IBRAM)
- Rodrigo de Lemos Peroni (IBRAM)

CBRR – Budget



The only employee of CBRR is the Executive Secretary, all other representatives, directors and committee members are volunteers;

The main income sources for CBRR are:

- Yearly Contribution from the three founding associations
- Training Courses
- Application fee for new candidates
- Yearly Contributions from the Registered Qualified Professionals

Registration Eligibility



- A Qualified Professional is a mineral industry professional registered with the Brazilian Commission of Resources and Reserves (CBRR) or a member of a Recognized Professional Organization (RPOs) that have enforceable disciplinary processes, including the powers to suspend or expel members.
- A Qualified Professional registered with the CBRR must have at least 10 (ten) years of professional experience and a minimum of 5 (five) years of relevant experience in the style of mineralization and type of deposit under consideration and in the activity which that person is undertaking, including at least 3 (three) years in a Position of Responsibility

Knowledge Areas of CBRR Registered Qualified Professionals



Since 2015:

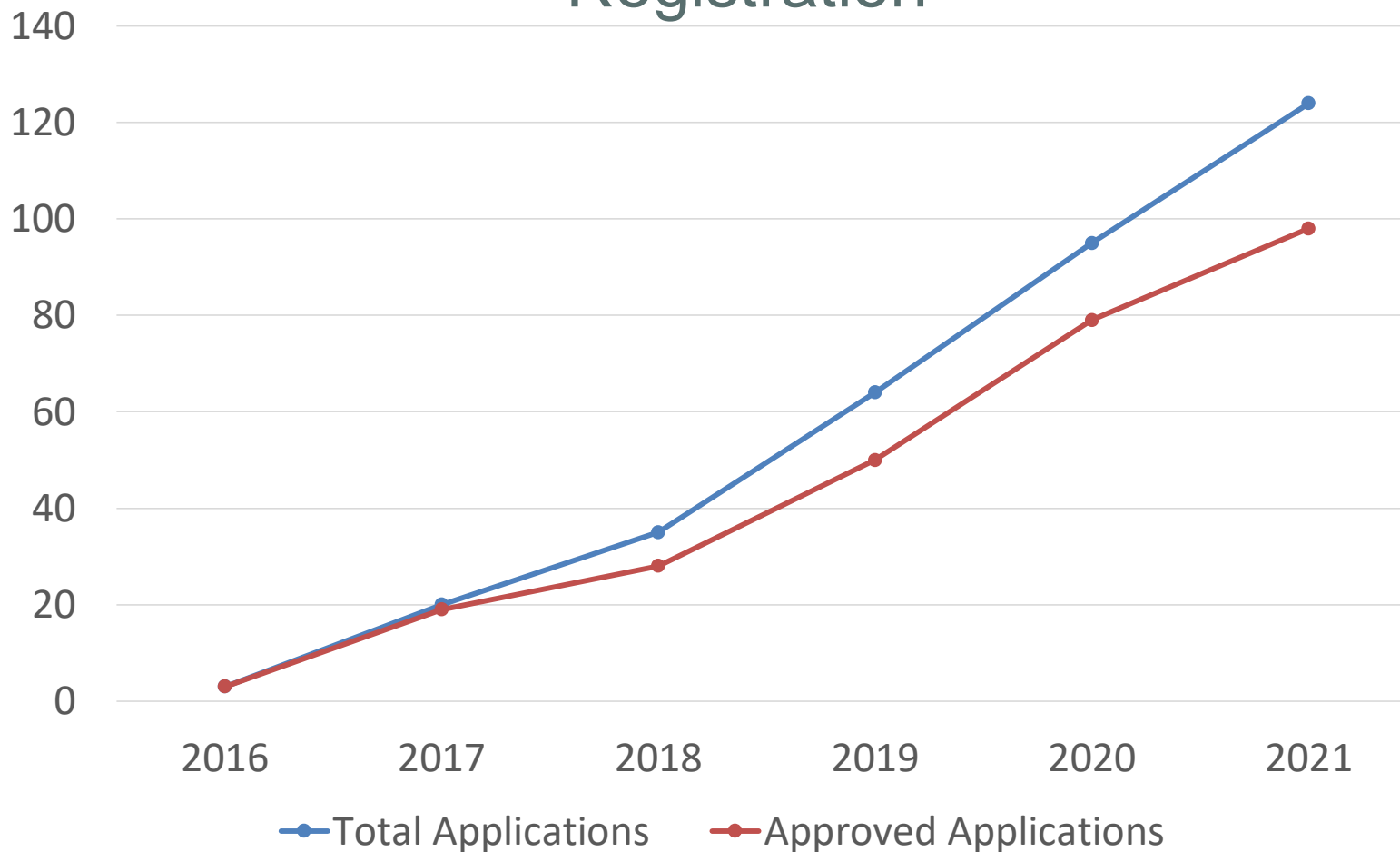
- Mineral Exploration
- Mineral Resources Estimation
- Mineral Reserves Estimation
- Mining Operations
- Mineral Processing
- Geotechnics

Added in 2021:

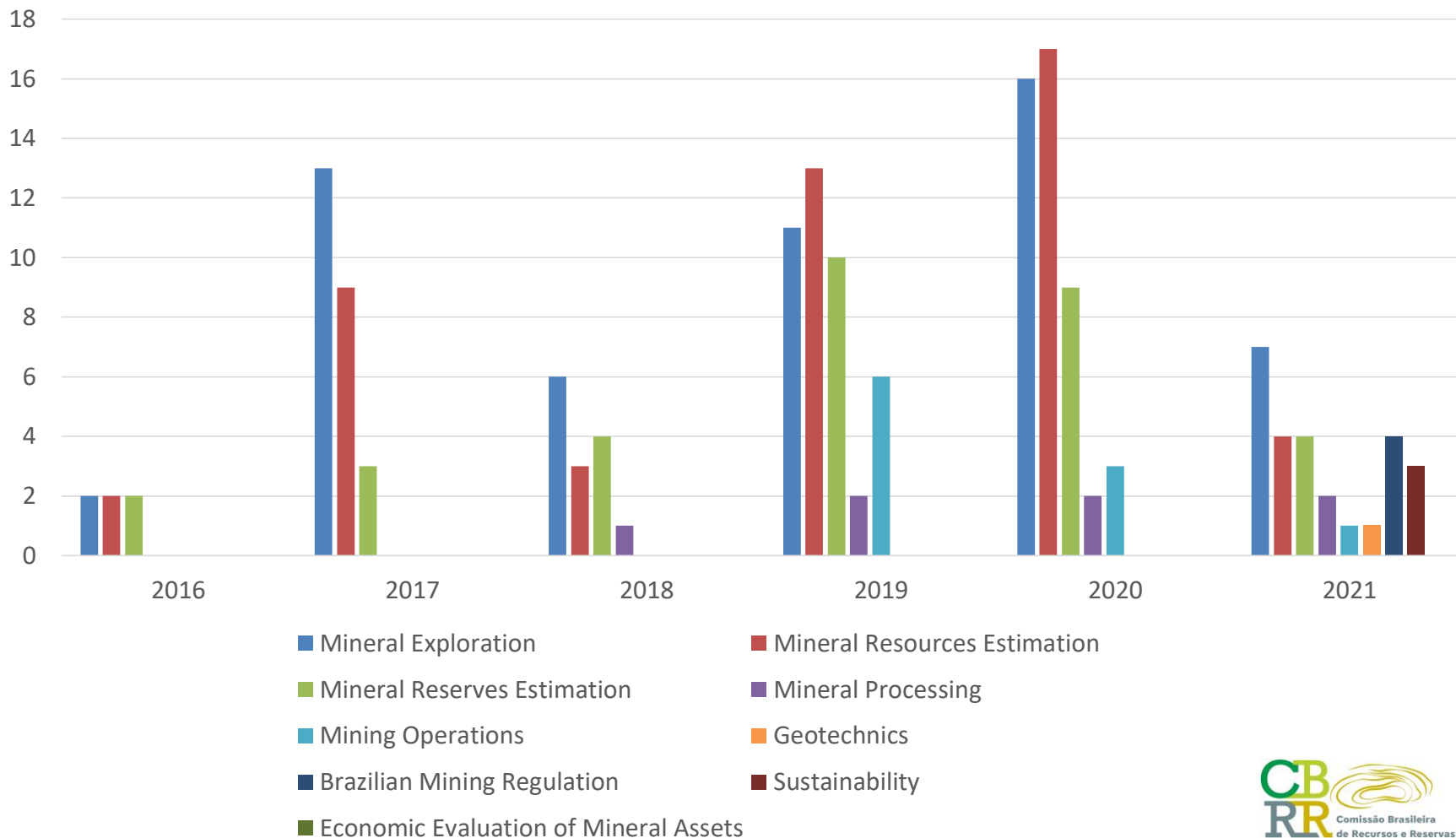
- Sustainability (Social and Environment)
- Economic Evaluation of Mineral Assets
- Brazilian Mining Regulations



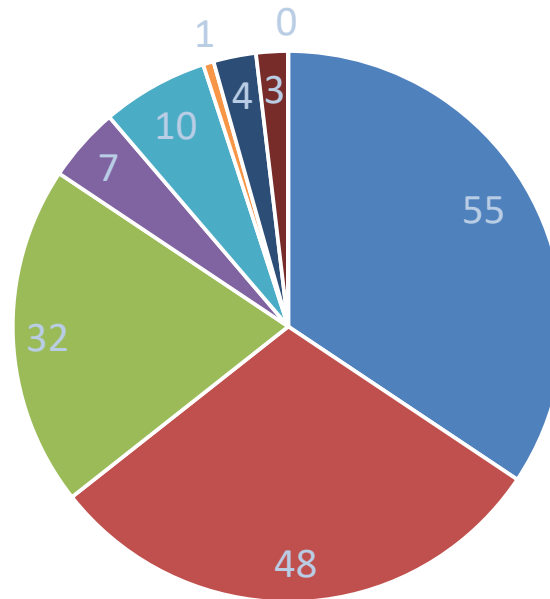
Professional Registration



Registered Qualified Professionals by Knowledge Area



Registered Qualified Professionals by Knowledge Area



- Mineral Exploration
 - Mineral Reserves Estimation
 - Mining Operations
 - Brazilian Mining Regulation
 - Economic Evaluation of Mineral Assets
- Mineral Resources Estimation
 - Mineral Processing
 - Geotechnics
 - Sustainability

Engagement with CRIRSCO



The two representatives of CBRR since its admission to CRIRSCO are Edson Ribeiro and Thomas Brenner

- Edson is more focused on the international collaboration. Member of the CRIRSCO Executive (Secretary 2018/19 and Deputy Chairperson 2020/21), the Standing Committee of External Relationships, Education & New Members and of the Working Groups for the admission of Indonesia, China, Colombia, Peru, Ecuador and Argentina;
- Thomas is more focused on the internal activities in Brazil, including the organization of several seminars and short courses and the maintenance of the CBRR Guide for Public Reporting. Member of the CRIRSCO Standing Committee of Communication and Publicity and the Working Group for the admission of Peru.

Engagement with the Brazilian Mining Sector



- CBRR has worked in collaboration with the Ministry of Mines and Energy and other players in the Brazilian mining sector, and in June 2018 the Government has released the Decree # 9.406, aligning the mineral resources and mineral reserves definitions to the CRIRSCO Template
- The National Mining Agency (Agência Nacional de Mineração, ANM) is responsible for the final regulations after this fundamental Decree
- CBRR is also supporting the Brazilian Stock Exchange (B3) and BNDES (the National Development Bank) for the creation of specific rules for exploration and mining companies to be listed at B3 and have access to more customized lines of credit for financing their activities

Institutional Presentations



- CBRR is present in the main exploration and mining events in Brazil, such as Exposibram, Simexmin and the Brazilian Congress of Geology

EXPOSIBRAM 2020
Expo & Congresso Brasileiro da Mineração
Brazilian Mining Expo & Congress

SALA BRASIL
Room Brazil
COMISSÃO BRASILEIRA DE RECURSOS E RESERVAS (CBRR)
Brazilian Commission on Mining Resources and Reserves (CBRR)

26 de novembro - das 15h30 às 17h
November 26th - from 03:30 to 5 PM

MODERADOR
Miguel Antonio Cedraz Nery
- CBRR Advisor, Owner & General Executive
- Owner & Senior, Chairman & Executive Manager

PALESTRANTE
Celeste Queiroz
- Vale S.A., Gerente de Gestão da Informação
- Vale da Informação Management Manager

PALESTRANTE
Alessandro Henrique Medeiros Silva
- AngloGold Ashanti International, Gerente Sênior de Análise de Recursos Minerais
- AngloGold Ashanti International, Manager

PALESTRANTE
Julio Cesar Nery Ferreira
- IBRAM, Diretor de Sustentabilidade e Relações Regulatórias
- IBRAM, Director of Sustainability and Regulatory Affairs

PALESTRANTE
Edson Ribeiro
- Vale S.A., Diretor de Exploração e Projetos Minerais
- Vale S.A., Exploration and Mineral Projects Director

Evento 100% Online
100% Online Event

IBRAM
Instituto Brasileiro de Recursos e Reservas



Continuous Professional Development



- On February 2021, CBRR and ADIMB organized an online course to ANM professionals on “Brazilian Guide for public reporting of Mineral Resources and Reserves”, with 25 participants from various departments and different states.

Comissão Brasileira de Recursos e Reservas

ANM Agência Nacional de Mineração

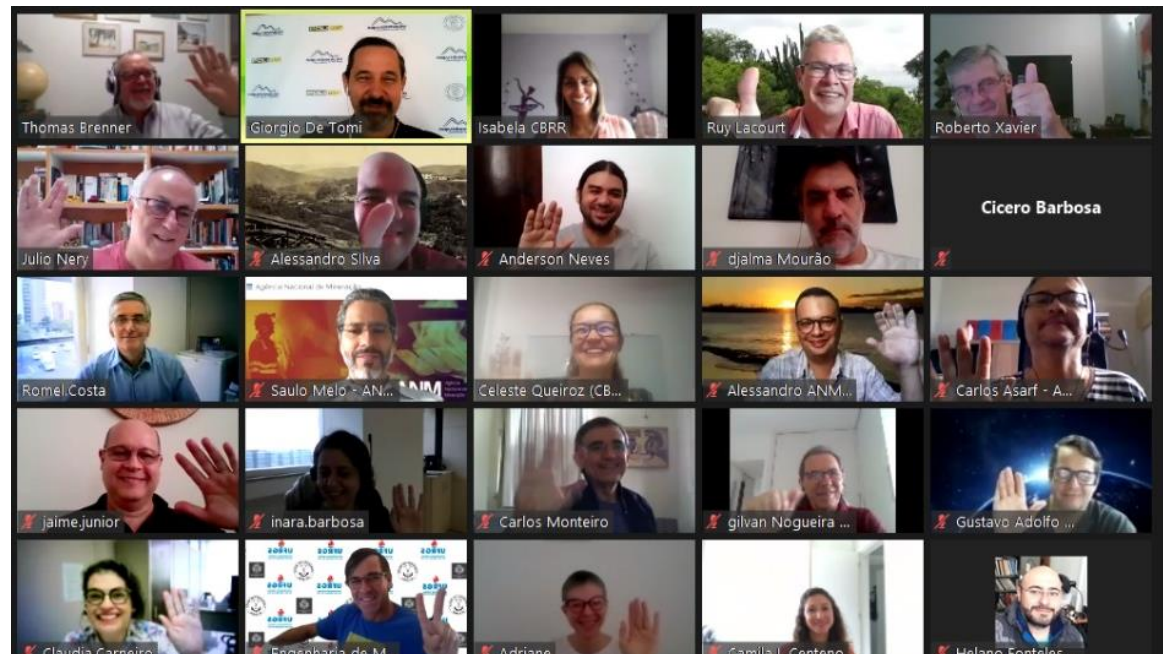
ADIMB Agência para o Desenvolvimento Tecnológico do Minerador Mineral Brasileiro

CBRR Comissão Brasileira de Recursos e Reservas

GUIA BRASILEIRO DE DECLARAÇÃO DE RECURSOS E RESERVAS – PRINCÍPIOS E DIRETRIZES

CURSO INTERNO ANM

22/02/2021 - 26/02/2021



Continuous Professional Development



- With the increasing interest on the new rules for the NYSX, CBRR has also organized online courses on “Public reporting of Exploration results, Mineral Resources and Reserves”, with professor Kwame Awuah-Offei.

Next Steps



The following initiatives are planned for the near future:

- Release of the updated Guide for Public Reporting
- Continue collaborating with ANM for the regulations of the Decree # 9.406
- Create a more structured program for the continuous professional development, integrated with the Latin American NROs
- Increase the number of Registered Qualified Professionals, to obtain financial independence from its Associates
- Continuous improvement of the website, including all documents in English
- Fully implement agreements for reciprocity with other NROs



www.cbrr.org.br

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