

CBRR – Brazilian Commission for Resources & Reserves

CRIRSCO Annual Meeting
CBRR Workshop
Brasília, 30/nov – 3/dec, 2015

“Certified” Resource & Reserve Reporting

- ***CBRR does not seek to change nor go against any parts of the Brazilian Mining code / Brazilian laws. CBRR and R&R certification is a complementary effort, acting as a private sector auto regulation (e.g. ISO, IFRS).***
- Technical guideline defining concepts and basic standards for estimation and public disclosure for mineral resources and reserves;
- CRIRSCO template and family of codes widely used and accepted around the world; Canadá (NI43-101), Austrália (JORC), Chile, USA, South Africa, European Union, Rússia and Mongólia;
- Registered Qualified Professional (i.e. QP = CP) as a central leading role;
- CREDIBILITY => Best accepted worldwide standards for mining sector technical and corporate governance;

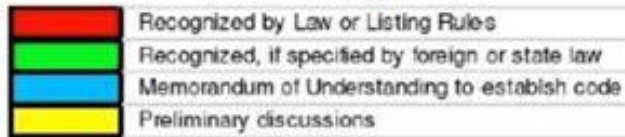
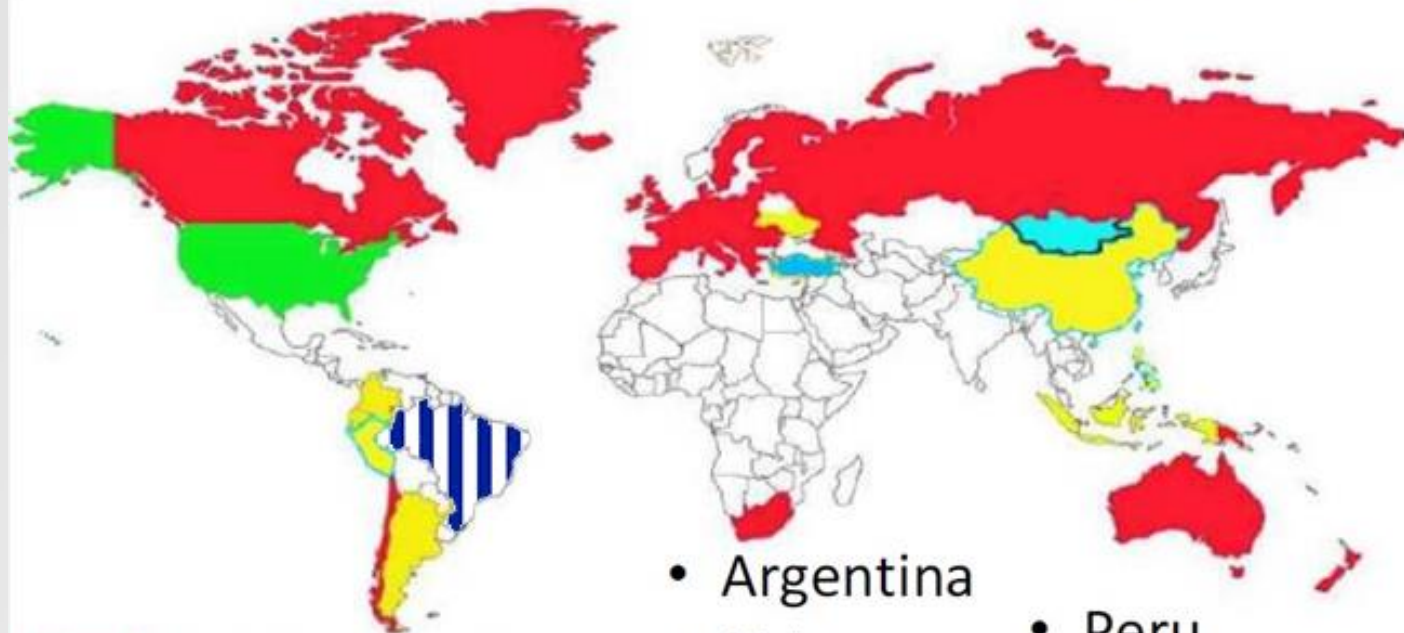
Who is CRIRSCO

- CRIRSCO - *Committee for Mineral Reserves International Reporting Standards*;
- Established in 1994. Direct support from the ICMM (“International Council on Mining & Metals”) with the objective to align and upgrade resource and reserves reporting standards around the world. Mining Credibility!
- Current members: Chile, Canada, USA, UE, South Africa, Russia, Mongolia, Australia, **Brazil**.
- Member countries follow CRIRSCO R&R reporting template, adjusting for specific local laws and particularities;
- More information – www.crirSCO.com



CRIRSCO Codes Family

Potential New Members of CRIRSCO



- Argentina
- China
- Indonesia
- Mongolia
- Peru
- Philippines
- Colombia

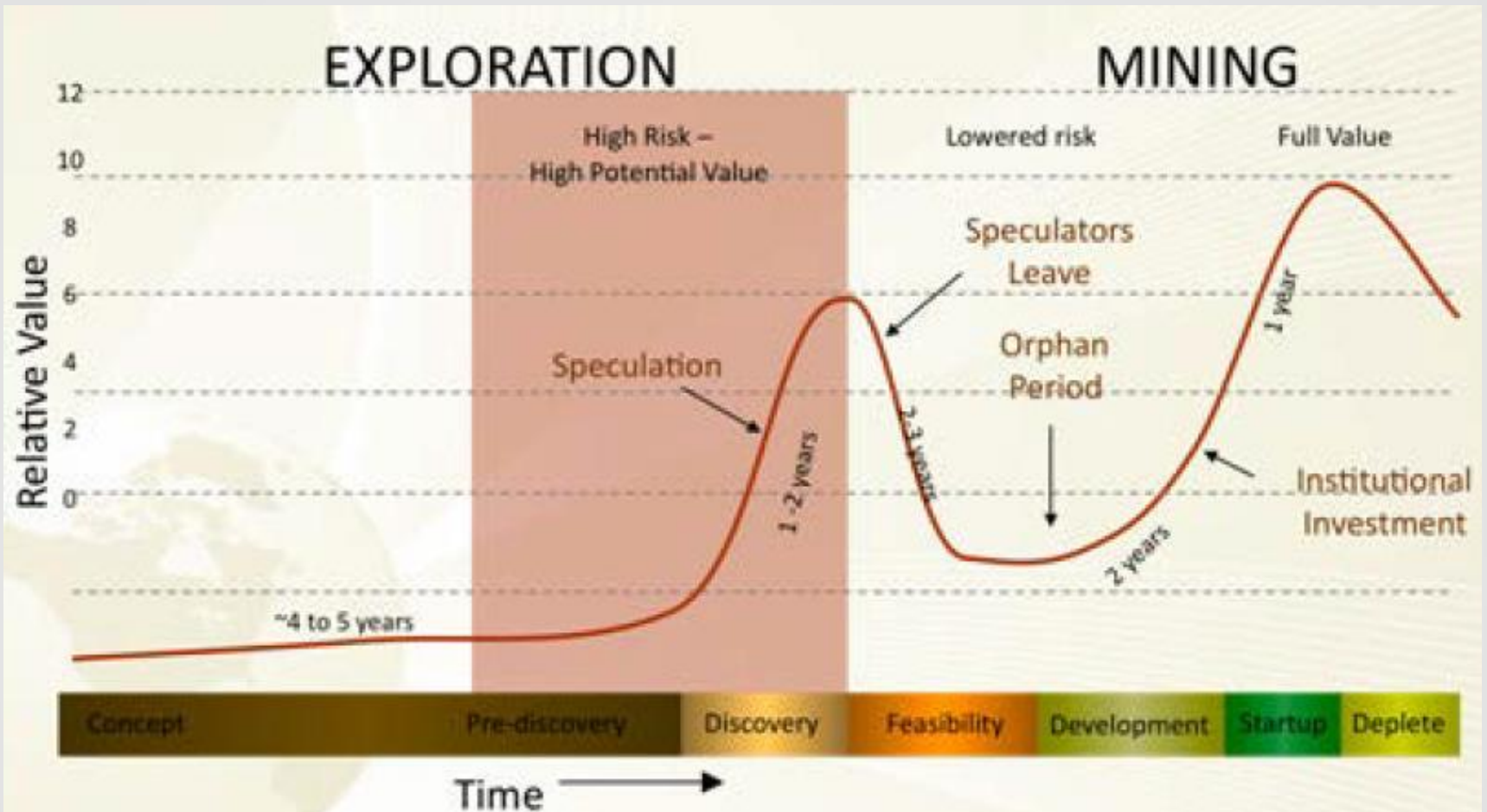
Where Brazil Stands:

- Idea of joining CRIRSCO and/or establishing a Brazilian guideline to resource & reserve reporting has been subject to several initiatives, with excellent contribution and dedication from high caliber professionals and institutions. “We are navigating on previously sailed Waters”;
- **ABPM, ADIMB & IBRAM** joined forces, creating a task force in early 2015 with the objective to finally incorporate Brazil into the **CRIRSCO** “Family”.
- These institutions represent over 90% of Brazilian Mining GDP, covering from early stage prospectors to large multinational mining companies.
- On December 1st 2015, CRIRSCO has officially approved Brazil as its newest member, recognizing CBRR as the official National Representative Organization.

CBRR - Objectives

- **Establish solid basis for a prosperous mining ecosystem, incentivizing investments and development, thus unlocking Brazil's mineral potential and creating wealth and prosperity to the Nation.**
- Development of a mining investment culture within the Brazilian financial markets;
- Bring to the Brazilian Mining Sector the best and most accepted worldwide standards of resources & reserves reporting, governance and transparency;
- Continuous commitment and support to CRIRSCO at its acceptance and expansion globally;
- International recognition and co-validation with other CRIRSCO members.

Mining Cycle – Value Creation



Fases Regu – Iatórias:	Req. Pesquisa	Alvará de Pesquisa		Requerimento Lavra	Portaria de Lavra	Fechamento de Mina
Número Projetos:	1000	750	60	15	3	7

CBRR Functional Structure

- CBRR operational structure is divided into:
 - Board of Directors;
 - Executive Secretariat;
 - Technical Report Committee;
 - Registration Committee; and
 - Ethics Committee.

Applying for CBRR Registered Qualified Professional (“CBRR RP”) Status

- Direct application to CBRR ’s Registration Committee;
 - 6 members w/ 5 favourable votes needed for CBRR RP status.
- Pre-requisites:
 - University degree from a Brazilian Univeristy and/or recognized international University;
 - Brazilians - Valid membership with Professional Body (CREA);
 - 10 years experience in the mining industry;
 - 5 years experience in the Area of Expertise the RP is applying for;
 - 3 years experience in a Position of Responsibility;
 - Mineral Expl, Resource Est, Reserve Est, Mine Op, Mineral Proc, Geotechnics.
 - Demonstrate extensive knowledge of the CBRR Technical Guide, mining laws, and general mining industry best practices;
 - Declaration that candidate knows, understands and will govern his professional activities in accordance with CBRR RP ’s Ethics Code;
 - Registration Committee may request further information, including in person interview.

Resource & Reserve Certification

- Increased level of corporate governance and resource & reserve credibility;
- Improved competitiveness for Brazilian mining sector, keeping up to date with global mining tendencies and best acceptable practices;
- R&R certification and Registered Qualified Professional oversight, reduces risks of investor misguidance by sub-par companies and professionals;
- Settle behind us the general Brazilian population view that mining is pure “bad” speculation, as it will be clear what companies are actually investing and creating value and what companies are only commercializing mineral rights;
- Much improved understanding and knowledge of Brazil’s actual definable resources and reserves, providing a valuable and crucial tool for private & public policies decision making.

Conclusion

- Resource & Reserve certification and public disclosure is a reality to the global mining sector;
- Countries and companies that do not follow this trend, will ever more lose competitive advantage and interest;
- CBRR's formal acceptance to CRIRSCO is a major milestone for Brazil, providing the possibility for a new era in Brazil's mineral wealth development, incentivizing investments and always aimed at the common good of the Nation and stakeholders.

Thank you !

Felipe Holz hacker Alves

felipe@fronteraminerals.com

CBRR President

