

**4th World Congress of Biosphere Reserves (4WCBR) 'A New Vision for the Decade
2016-2025 - UNESCO Biosphere Reserves for Sustainable Development'**

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**Working Group on "Biosphere Reserves and
Earth Resources"**

Working Group on “Biosphere Reserves and Earth Resources”

- 1 - Biosphere reserves and how they could function as learning sites for sustainable mineral extraction;**
- 2 - Collecting and disseminating a body of case studies showing sustainable practices of Earth resource extraction and alerting extractive industries to existing guidelines and conservation tools;**
- 3 - Improving communication and the transparent flow of information between stakeholders to ameliorate the coordination of open policy dialogue at all levels, stressing the role of biosphere reserves as places for dialogue.**
- 4 - Use The International Council on Mining and Metals – ICM – «Good Practice Guidance for Mining and Biodiversity .**

First Event (2011): Man and the Biosphere (MAB) Programme and International Geosciences Programme (IGCP)



Expert Meeting on “Biosphere Reserves and Earth Resources” - Paris



Through the collaboration of the MAB Programme and IGCP, an expert meeting on “Biosphere Reserves and Earth Resources” was held at UNESCO Headquarters on 15 February 2011. The meeting was attended by more than 30 invited experts in the fields of earth resource extraction and protected areas management, members of the International Advisory Committee for Biosphere Reserves, members of the IGCP Scientific Board, and members of the UNESCO-MAB and UNESCO-IGCP Secretariats



Artisanal mining

Large-scale mining – iron ore



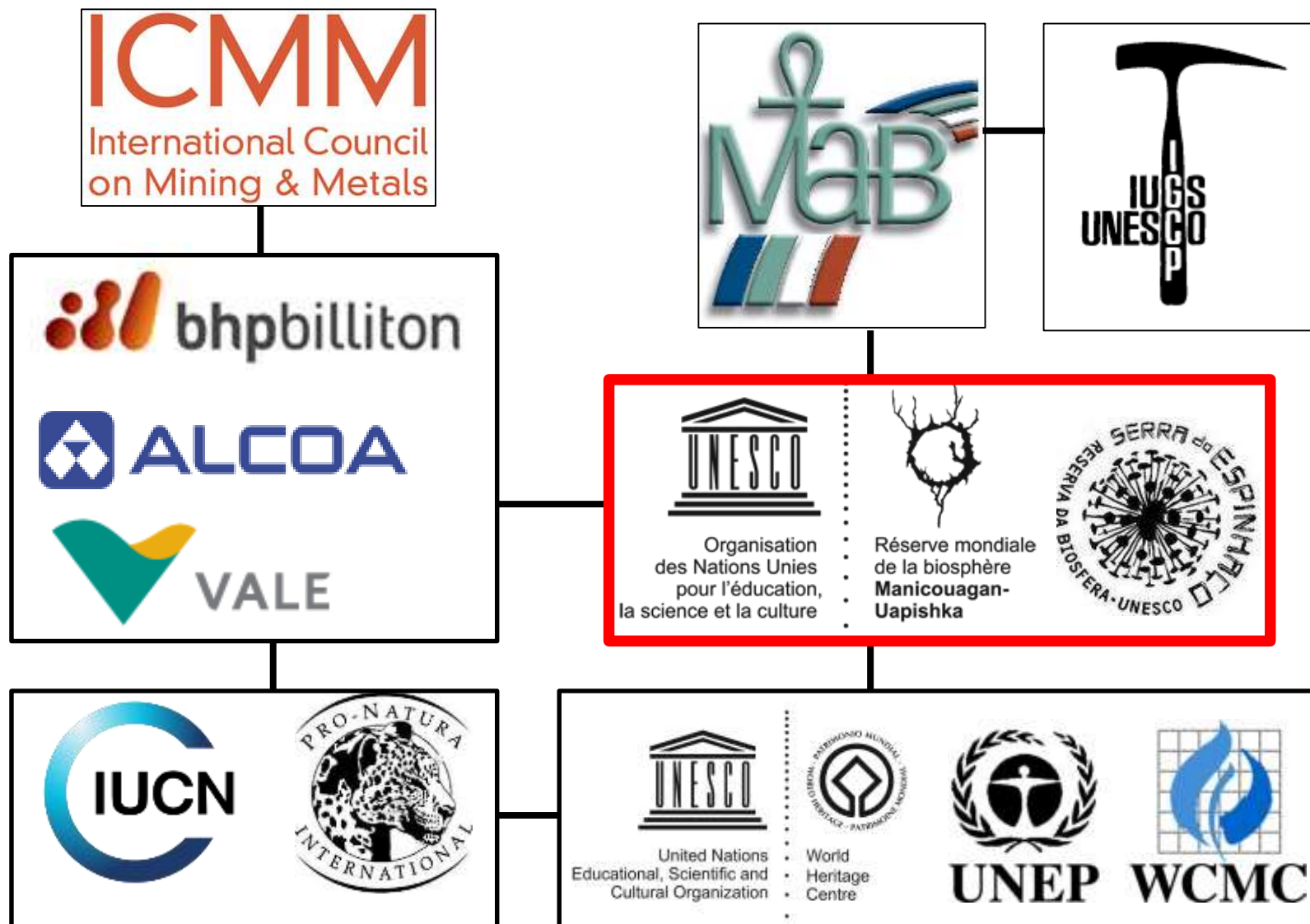
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Foto: Marcelo Rosa - (11) 3297 0582 - 9957 0027



Expert Meeting on “Biosphere Reserves and Earth Resources” – Paris (2011)



Expanding the working group: Biosphere Reserves



KRUGER TO CANYONS
BIOSPHERE REGION



Organisation
des Nations Unies
pour l'éducation,
la science et la culture



Réserve mondiale
de la biosphère
**Manicouagan-
Uapishka**



VBR
Vhembe
Biosphere
Reserve



Second Event (2013): Montevideo UNESCO Office and Espinhaço Range Biosphere Reserve

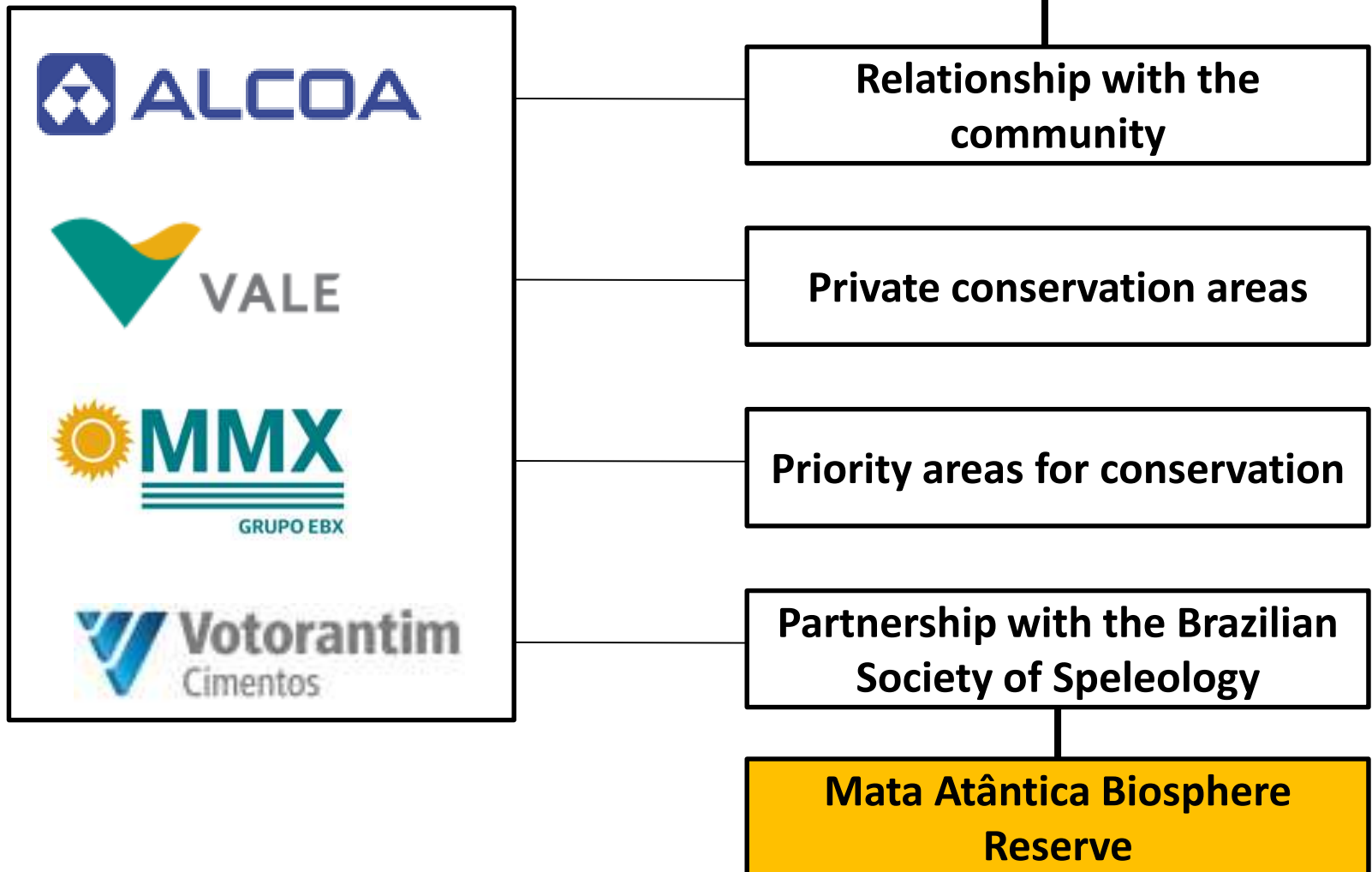


International Seminar - Mining and sustainability in Biosphere Reserves- Belo Horizonte, Brazil

Three moments:

- 1 - Mining in Biosphere Reserves territories: South America, North America, Africa and Asia.
- 2 - Mining Companies and their best practices: Brazil.
- 3 - Cooperation agreements between mining companies and Biosphere Reserves Committees: Canada and Brazil.

Seminário 2013 em Belo Horizonte sobre boas práticas: Cases



Large-scale mining - Biosphere Reserves Network

Goal: Building a Working Group



Iron ore, aluminium, nickel, uranium and gold.

Mining development and problems of the biospheric territory Kyrgyzstan, Issyk-Kul BR

Uranium



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The Mining Industry Within the Spectrum of a Local Sustainable Development Policy

Philippines, Palawan Biosphere Reserve

Nickel



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Mining and Socio-environmental Sustainability in Limpopo Biosphere Reserves

South Africa, Kruger to Canyons Biosphere Reserve, Waterberg Biosphere Reserve, Vhembe Biosphere Reserve.

Platinum, coal, red granite, diamond, Vermiculite, iron ore, Antimony, copper, phosphate and mica.

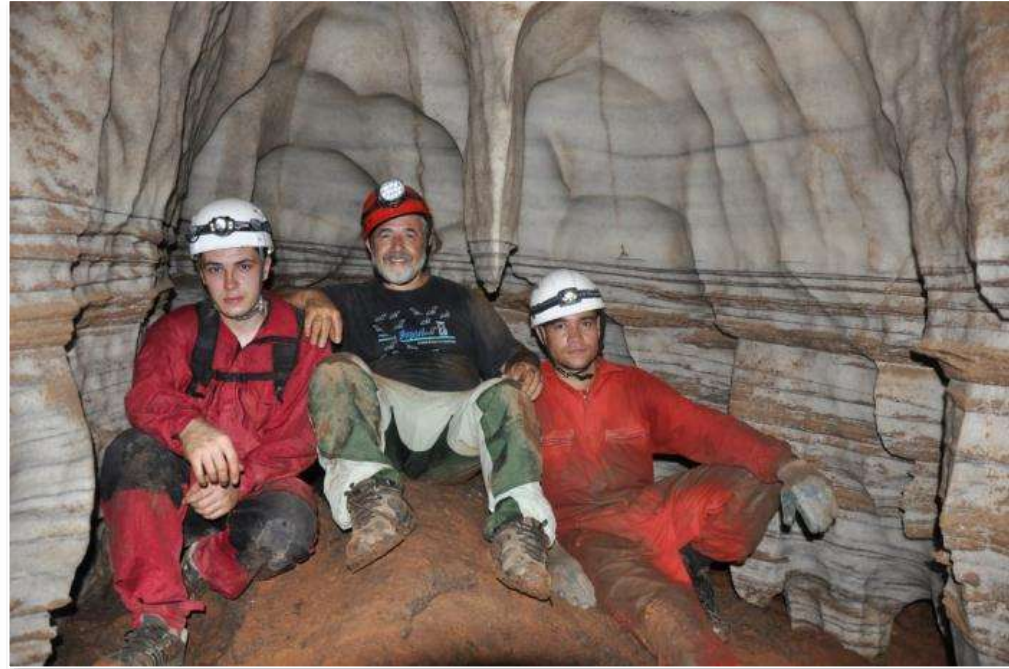


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Mining, under the cooperation. Brazil, Mata Atlântica Biosphere Reserve

Limestone



Clayton Ferreira LINO

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Proposal for a social dialogue integrating mining and actions for sustainability in the Espinhaço Range Biosphere Reserve

Brazil, Espinhaço Range Biosphere Reserve

Iron



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Biosphere Reserves and Sustainable Mining, How to Make Industrial Private Sector Part of the Solution.

Canada, Manicouagan - Uapishka Biosphere Reserve

Aluminium



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