



A PARTNERSHIP FOR THE FUTURE

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COOPERAÇÃO
TÉCNICA
SBE VC RBMA

A PARTNERSHIP FOR THE FUTURE



1. Technical Cooperation and its partaker: SBE - VC – RBMA
2. Objectives of innovative cooperation
3. Projects carried out
4. Projects in progress
5. The future of cooperation

1. GENERAL INFORMATION

Study Case

Technical Cooperation
between the Brazilian
Speleological Society –
Votorantim Cimentos –
Biosphere and Atlantic
Rainforest Reserve

Time and venue:

August 2011 - Current
Brazil Focus: Environment



Signature of the
Technical Cooperation
July/2011

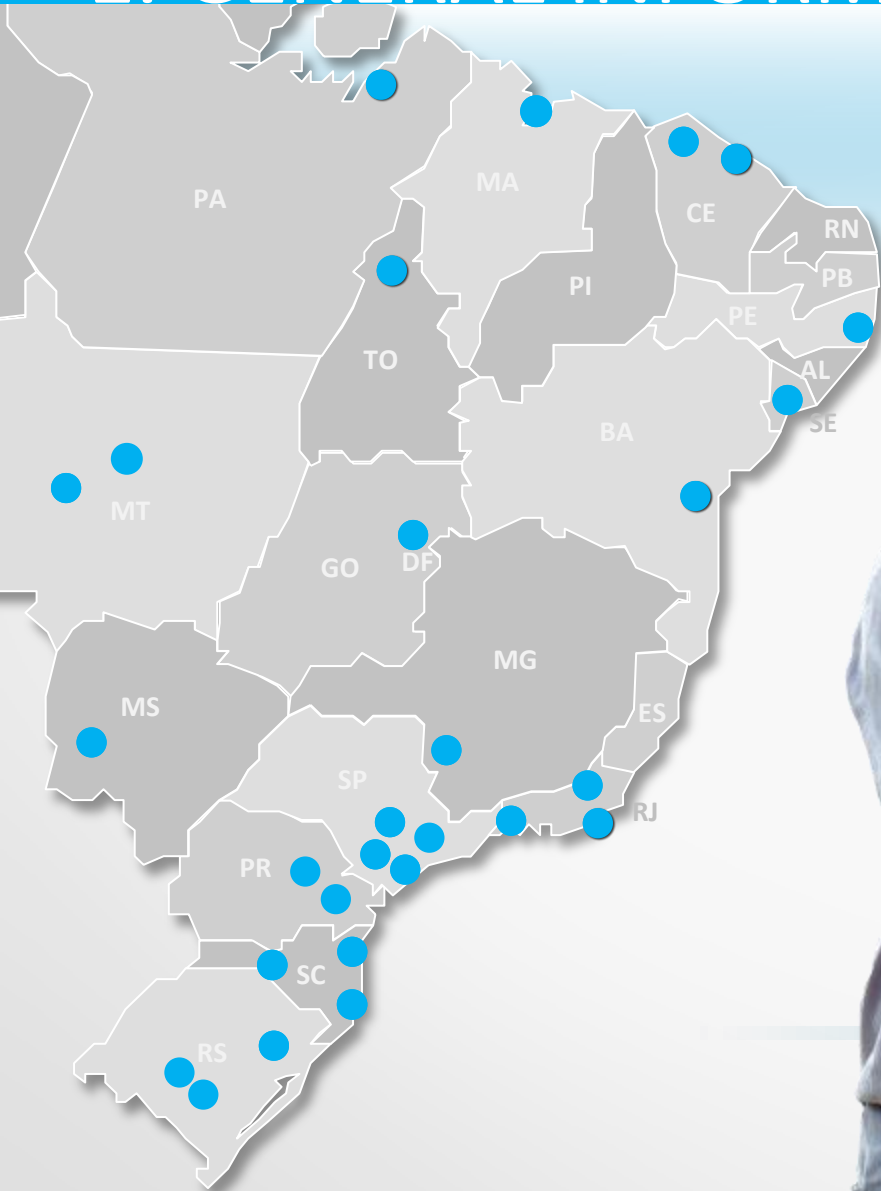


First meeting of the
Cooperation for the
31st CBE Ponta Grossa



Opening meeting of
the Project -Good
Environmental
Practices on Mining in
Karst Areas Guide

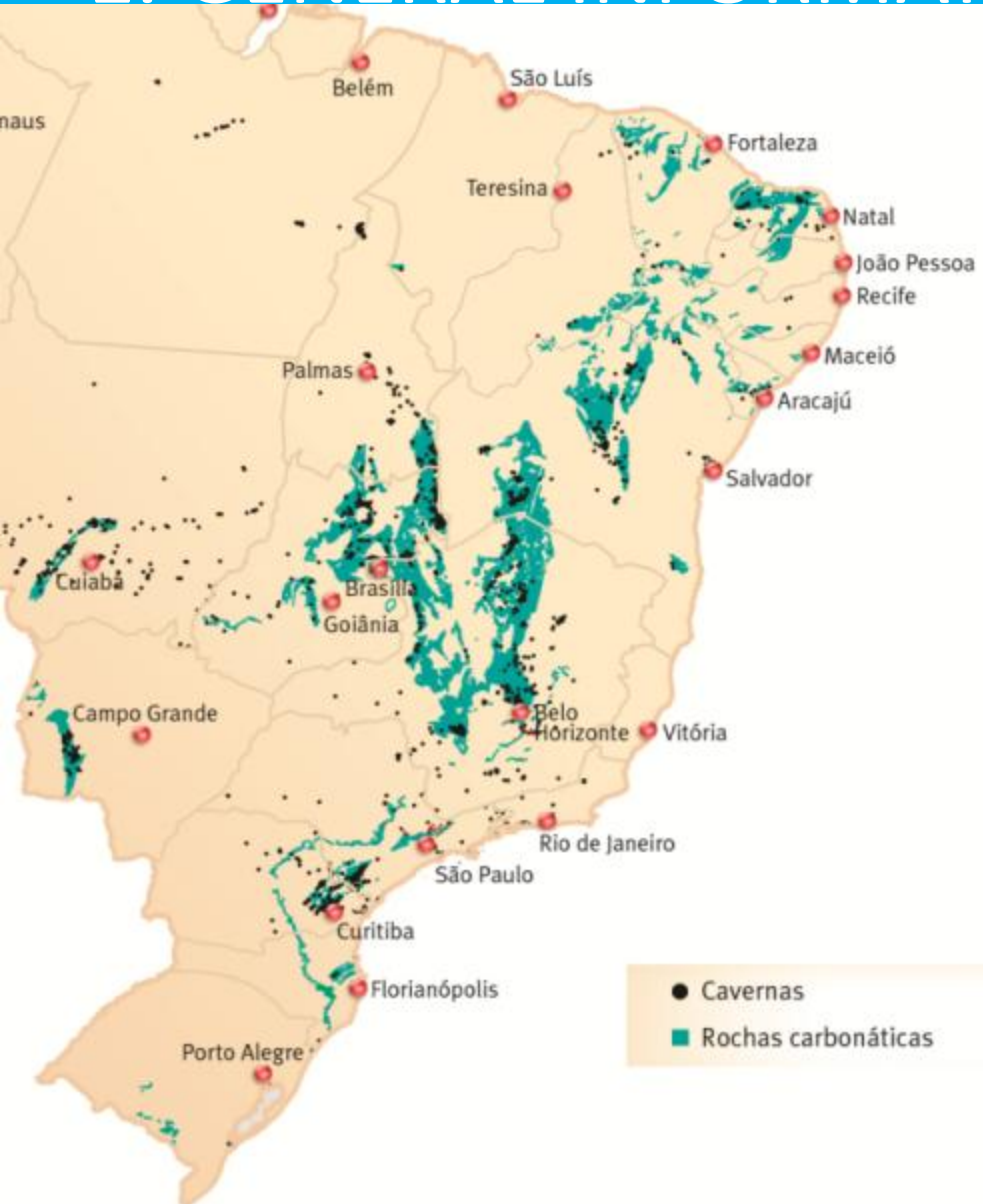
1. GENERAL INFORMATION



A global, vertically-integrated building materials company

Vorantim Cimentos is present in building materials (cement, concrete, aggregates and complementary products) business since 1936 and currently is one of the largest global companies in the industry, with production capacity of 53.9 million tons / year.

1. GENERAL INFORMATION

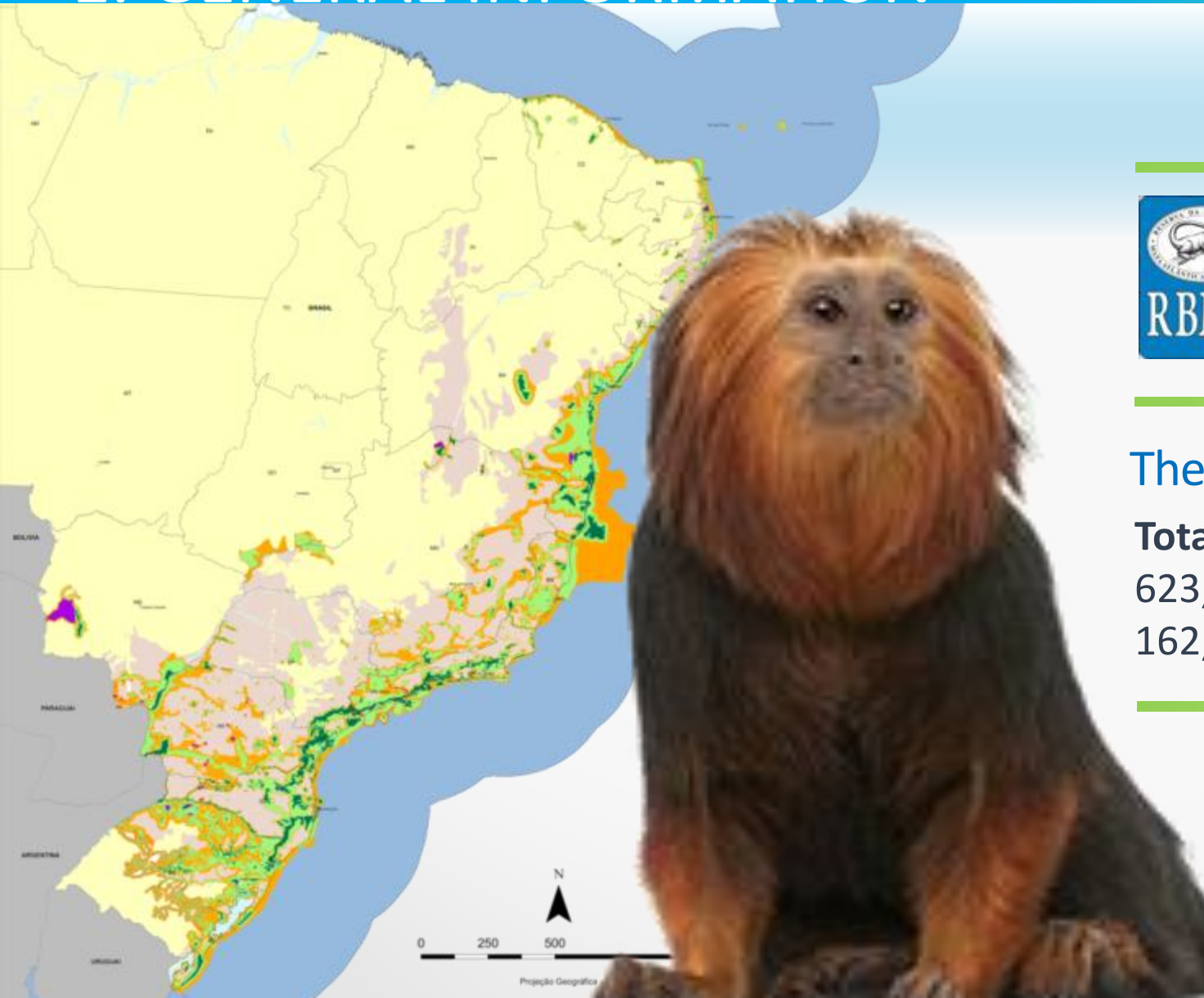


Brazilian Speleological Society

S.B.E. - Brazilian Speleological Society - established this text aiming to inform groups and individuals about rules and recommendations to be followed when engaged in speleological activities in Brazilian territory



1. GENERAL INFORMATION



Biosphere and Atlantic Rainforest Reserve

The Atlantic Forest Biome

Total area: 784,654 km²
623,000 km² **Land**
162,000 km² **Marine**

16 Brazilian states
2,385 Municipalities
Over 700 UCs

2. OBJECTIVES OF INNOVATIVE COOPERATION

To develop, implement and disseminate good practice in karst mining areas and in the vicinity of protected areas as well as in areas of Atlantic Rainforest that contribute to biodiversity conservation and protected speleological.



Work Plan with 4 main components:

- Good Environmental Practices on Mining in Karst Areas Guide
- Search Speleological Patrimony
- Education on Patrimony Speleological
- Conservation and Management of caves, karst areas and Atlantic Rainforest

3. DETAILING THE DEVELOPED ACTION

Several projects have been developed under the technical cooperation since its creation in 2011. The main ones are highlighted bellow:

Photo Contest
“Brazilian
Caves”

Mining and
Environment
Workshop

Technical Visit:
Xambioá - TO

Technical Visit:
Sobradinho - DF

Restructuring of
the Guy-Christian
Collet Library

Photo Book
“Humans and Karst
Landscape”

Environmental
Assets Project

3. DETAILING THE DEVELOPED ACTION

3.1 Photo Contest “Brazilian Caves”

The Photographic Competition "Caverns of Brazil" with the participation of **over 249 photos** sent by cavers, Votorantim Cimentos employees, casual tourists, and other lovers of Brazilian caves. With the aim of sensitize all the stakeholders on this issue.



3. DETAILING THE DEVELOPED ACTION



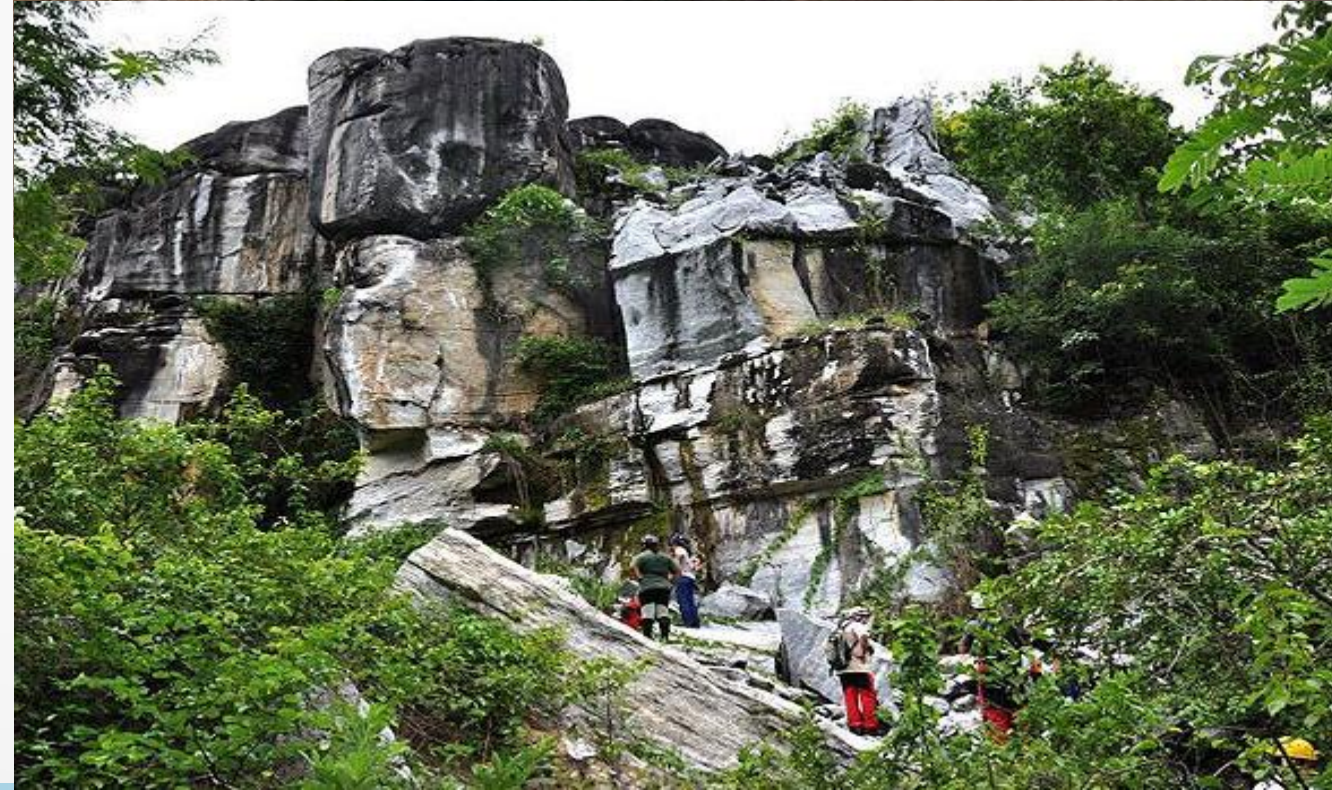
3.2. Mining and Environment Workshop

- Internal discussion of the themes of environment and mining (synergy and integration of teams)
- Awareness among leaders of mining with visiting tourist cave
- Quick and applied lectures, with time for discussion

3. DETAILING THE DEVELOPED ACTION

3.3. Technical Visit: Xambioá - TO

- Cave partially detonated in the area acquired by Votorantim
- Difficult access, preventing tourism
- Richness in fauna and morphological diversity
- Possibility of speleology courses
- Partnership with local Speleological Group (GEM)



3. DETAILING THE DEVELOPED ACTION



Before the restructure



After the restructure

3.5. Restructuring of the Guy-Christian Collet Library

- It was completed in April 2012 the restructure located at the headquarters of the Brazilian Speleological Society.
- The project classified and made available to researches the largest collection of books about karst in Latin America, with **over 6000 publications worldwide.**
- Objective to expanding access to knowledge produced and supporting the production of new work.

3. DETAILING THE DEVELOPED ACTION



Cover of the Photo Book

3.6. Photo Book “Humans and Karst Landscape”

- In June 2012 the pre-launch of the bilingual book “Humans and Karst Landscape” occurred during the performance of the UN Conference on Sustainable Development (RIO +20).
- The book was designed to **introduce the general public to the karst landscape**, a unique environment in which caves are frequently formed.
- Its goal is not only to illustrate the natural beauties, but rather to **demonstrate how the insertion of human beings** and their interaction with this environment is.

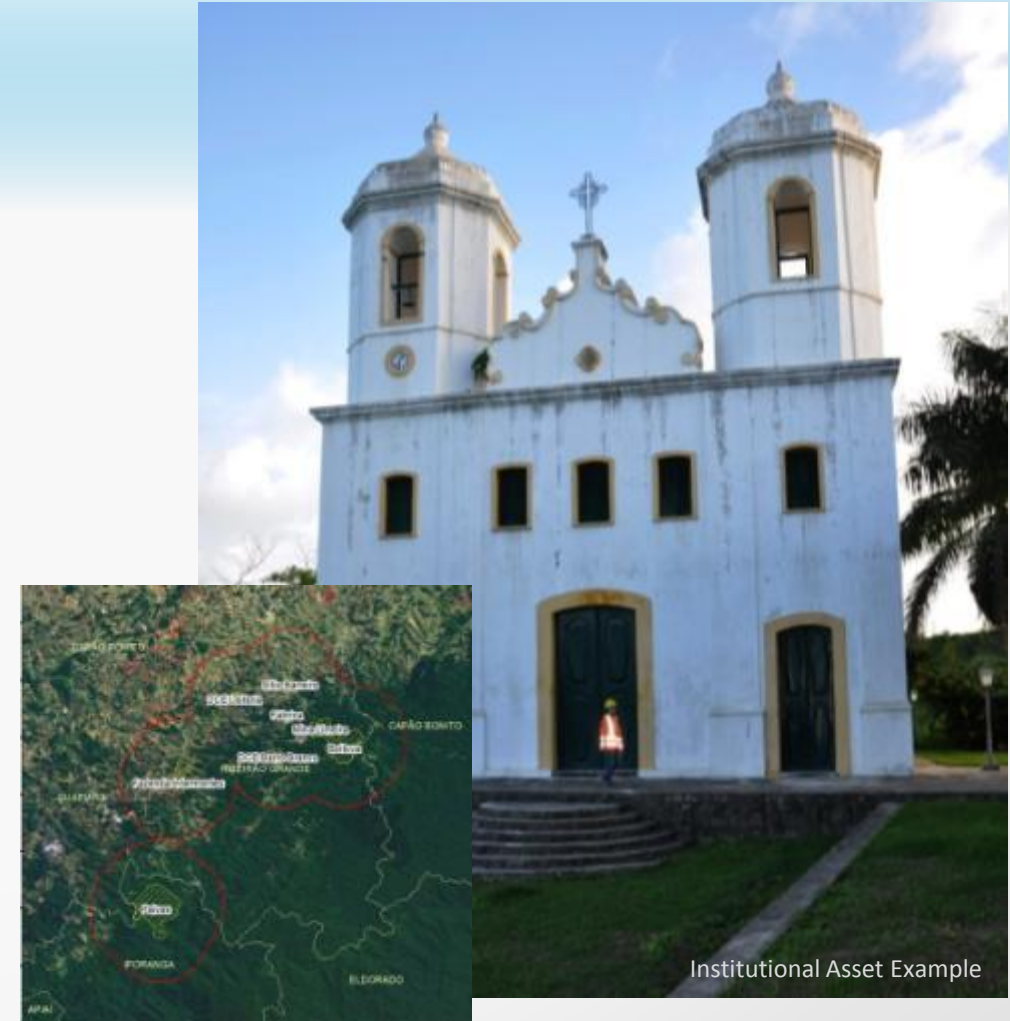


Conference on Sustainable Development (RIO + 20)

3. DETAILING THE DEVELOPED ACTION

3.7. Environmental Assets Project

- Characterization and **diagnostics** of environmental assets selected in the project areas and develop a Sustainable Land Management Plan (PGTS) for two pilots areas – Laranjeiras and Ribeirão Grande
- **Reason:** The Project aims to comply with the prerogatives of sustainability , on environmental, social and economic dimension.
- **Expected results:** The project aims to promote the use of **natural resources sustainably and generating alternative income.**



4. CURRENT PROJECTS



4.1. Good Practice Guide for the Mining

Develop a manual that:

- Will serve as a manual for the operations of the VC and be disclosed to other companies
- Showcase karst and caves managers and technical mining;
- Demonstrate the role of mining to the conservation of karst system through more sustainable and less damaging
- Allow the cyclical review of the mining process in karst areas, where the application of the guide

5. THE FUTURE OF COOPERATION



With this partnership entities intend to create a new instrument to promote protected speleological and biodiversity as well as environmental sustainability in limestone mining in Brazil

- Renewal of the partnership
- Expansion of scope
- Validation and application of environmental assets lifting tools and implementation plan proposed
- Application of the guidelines of the Guide to Good Practice with implementation of indicators
- Dialogue on legislation speleological

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<http://www.sbe.com.br/cooperacaotecnica/default.asp>

