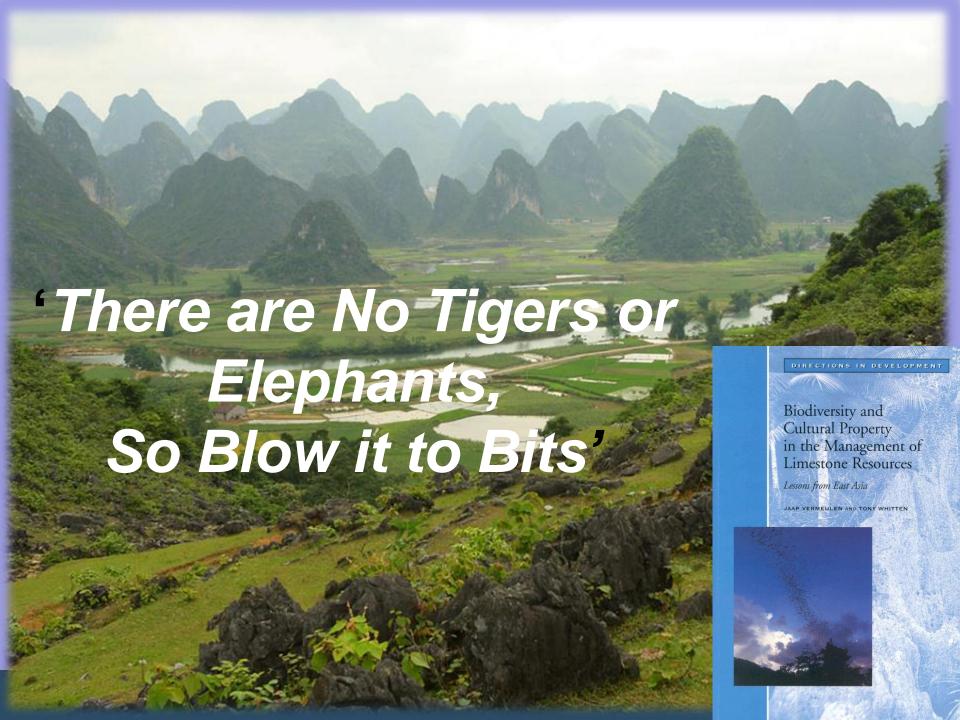


IAIA Special Symposium

Biodiversity Risk Assessment and Conservation Priorities: Identifying Biodiversity Values

Cave and Karst Biodiversity

Tony Whitten
Regional Director, Asia-Pacific, FFI



Cave Characteristics

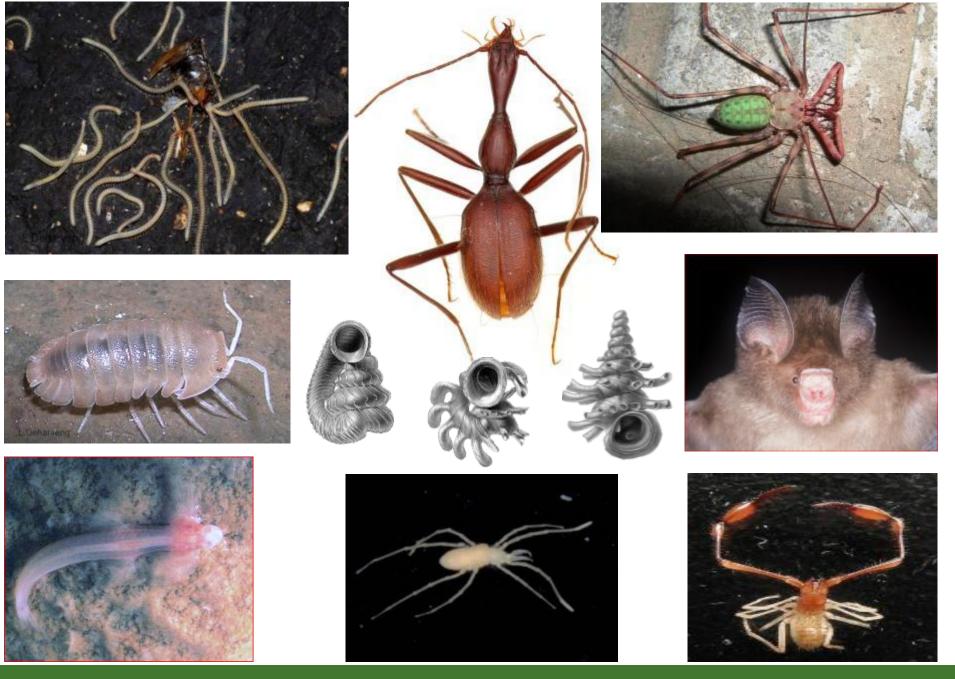
- Lack of light → No plants
- Low energy systems sources external
- High and even humidity
- Specific air flow patterns

all lead to

- Extreme adaptations among cave animals (blind, no pigment, no wings, long legs)
- Highly range-restricted endemics



Innovative conservation since 1903



Innovative conservation since 1903

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AP News

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Threatened Vietnam cave bugs draw lit

By Mike Ives on September 12, 2012

theguardian









HON CHONG, Vietnam (AP) the limestone caves of Hon Cho ny of them are found no

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Threatened Vietr draw little sym Updated: September 12, 2012 8:25 AM (Associated Press MIKE NES (Associated Press MIKE NES) Unginally published. September 12, 2014
Updated. September 12, 2012 8,25 AM
Updated. September 12, 2014 The Washington Post | BUSINESS In the News Apple stock Mitt Romne

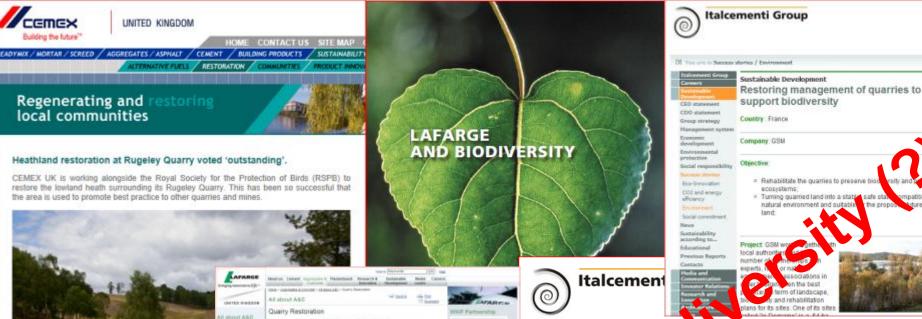


AT&T sets sales record for iPhone 5



Wonkbook: Romney campaig in disarray

Little sympathy for cave creepy crawl threatened by cement boom in Vietna



例 You are in Success dorie stamable Development

Biodiversity reappears at Mijas quarry

Country: Spain

Company: FYM - Compañía General de Canteras

Objective: safeguarding biodiversity and ecosystems through quarry restoration schemes that include progressive rehabilitation of the soil used as well as restoration at the end of plants' life. In particular, to reproduce the Mediterranean forest, in order to achieve integration of the restructured

an important project for many reasons. The animal and plant energies to

Biodiversity: a pillar of our Bustainability Ambitions 2020.

"We deliver a positive contribution to biodiversity

- We encourage dialogue with all stakeholders
- We encourage the increase of biodiversity. through the planning and implementation of site specific restoration plans.
- We give priority to local plant species.
- We protect soil and subsoil.

elbergcement Group

We avoid to contaminate groundwater or surface water (during exploitation or after-use)

CEO statement

COO statement Group strategy

Environmental

Success stories

Eco-Innovation

CO2 and energy

protection

Management system Economic development

Social responsibility

he Mijas quarry was restored as an pen site with simultaneous rogress by plot. This process has

roject: the implementation of the

os Arenales", in Spain, began in

000, the same year that it was

habilitation works took place

pproved, although some

eforehand.

estoration Plan for the Mijas quarry



Implementing the restoration plan at the "Los Arenales" quarry

reated 12 plots. Mijas was the first limestone quarry in Andalucía to be fully stored in this way, with complete rehabilitation of the entire surface. This HEIDELBERGCEWENT

HEIDELBERGCEMENT

I Sustainability News I Preface

Chronicle 2009/2010 Company portrait

Strategy

I Management **Environment**

■ Energy and climate protection

II Raw materials and fuels

■ Biodiversity ■ Local environmental

impacts # Sustainable construction

III Discussion

E Key figures Employees

Society. Key figures Case studies 1 GRI index

I Independent assurance About this report

landscape, destroy local habitats and alter the morphology of the surroundin can usually relocate within a short time, but plants cannot, we take great can After all, the plant seeds, tubers and roots are a vital archive of the variety of

Land use and biodiversity

We need to develop feasible approaches for mini-mising our interventions an

meving a testing legacy for generations come

consequences. That is why we adhere to a complex permission process before

HeidelbergCement takes into account both economic and environmental sust

which deposits are suitable for extraction. Quarries and gravel pits completel



- These are not the urgent biodiversity issues for cement companies
- To eliminate unique communities of invertebrates and replace them with meadows and duck ponds is not restoration – and is irresponsible
- Conservation partnerships between cement companies and conservation NGOs have not resulted in any appropriate surveys – even after 10 years
- If no interest in invertebrates, let's be honest



Good News?

- Various regulations require attention only to protected sites and Red List species
- The less companies do, the less they will have to do anything extra - and it seems global extinctions will likely result
- What is the role of the EIA community?
 Currently it is not "identifying biodiversity values" in cement and related projects
- No guidance from the Equator banks available
- Is 'business as usual' good enough?



Good News An FFI Exception

- The only good case study known
- In the cave work for "?" there were two foreigners and a small local team of 10 for three weeks (~\$15,000, 15 days)
- 40 species new to science
- Wonderful cooperation and engagement from the local company concerned
- No 'cost' to the company
- Planning to move into engagement in local spatial planning in the wider landscape beyond their fences.



