International Spring School on Sustainable Development 2014 30 March - 5 April 2014 in Týnec nad Sázavou, Czech Republic



# GEOCONSERVATION (GEOPARKS) CASE STUDY







Alexandru Andrăşanu University of Bucharest, Romania Hateg Country Dinosaurs Geopark

## **Summary**

- Geoconservation new concept
- Geoparks
- International Associations & Networks
- Key elements of a geopark
- Hateg Geopark Romania

### 90` - New words & new concepts

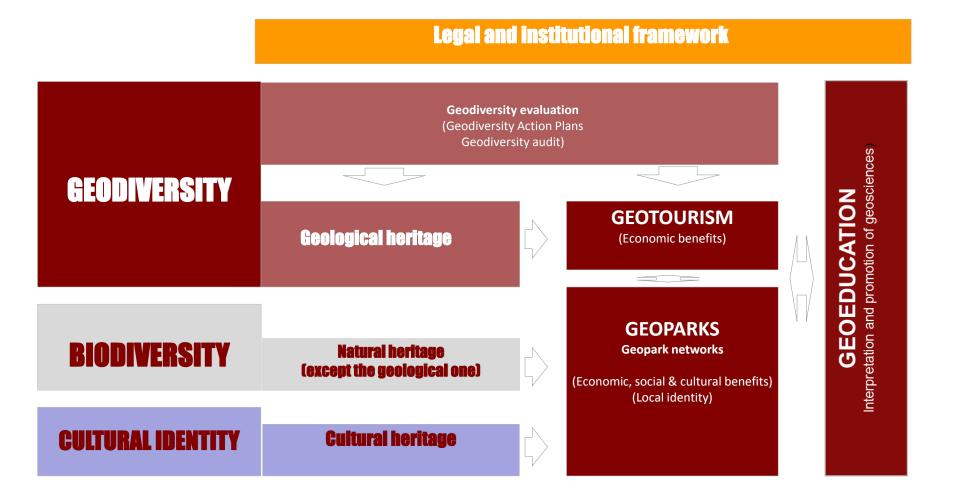
Geotop / Geosite
Geodiversity
Geological heritage
Geoconservation
Geoeducation
Geoparks



The Stein Family - GeaNorvegica

#### The forantten part of nature conservation

#### Geoconservation - basic concepts, relationships and activities



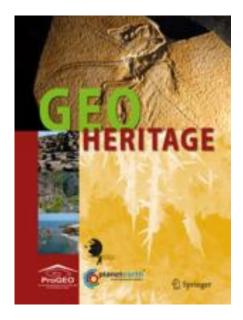
#### Milestones in concept development



- **Up to 1991** Subordinated to other activities related to nature conservation
- 1991/1992 2000: development of different methods for geological heritage conservation;
- 2000 2004 Geopark Global concept
  - Development of EGN
  - Setup of Global Geoparks Network (GGN)
- Since 2004 new area of applied geology
  - -CE Recommendation 3 / 2004 (Geologic heritage)
  - -IUCN (2012); / Worldwide activities
  - -UNESCO (program ?)











conception to order to publice the expector

#### **Geoconservation development**

**Scientific publication GEOHERITAGE - ProGEO publication** (Wimbledon. W., & Brilla, J.)(edts)

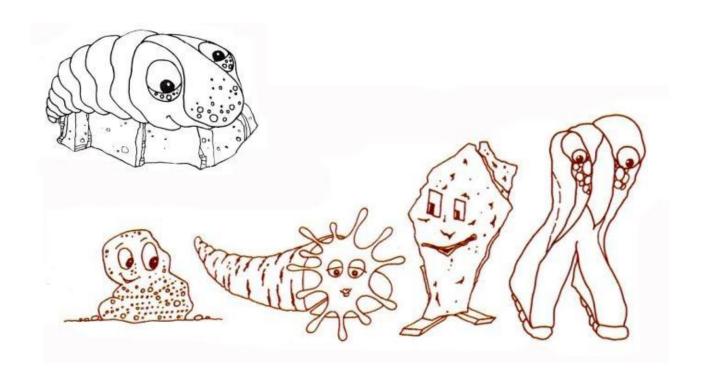
**Books Geoheritage in Europe and its conservation** (Wimbledon, W., Smith – Mayer, S.) (edts)

**Research projects** 

**Educational programs (EVS case study)** 

**Geoparks development** 

Geoconservation is giving "life" to rocks, is telling stories about our planet to make people to understand and love it.



## Why a geopark?

A geopark integrates geodiversity, biodiversity and local culture and strengthens local identity;

A geopark is a powerful tool for sustainable development (rural areas) - no other resources;

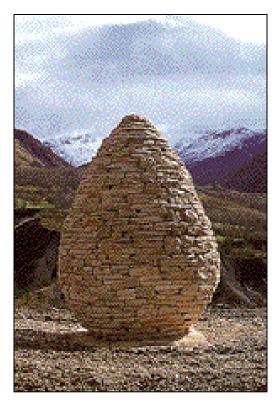
A geopark promotes Earth Sciences.

A Geopark INNOVATES

Each geopark has to bring something new (ex. RGHP & Lesvos Geoparks, EGN)

Innovation in site conservation ad promotion Site museum, land art, Time Travel





### **Develops traditional and new local products**

geo-products

local brands







## A geopark promotes innovative projects and cooperation INTERREG, LEADER, ERASMUS





## Innovation in education and public awareness

**GEORIUM, Geo-kids, Time Travel** 

Promoting geosciences





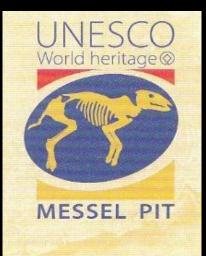


#### **Could generate strong brands**

Germany

Germany



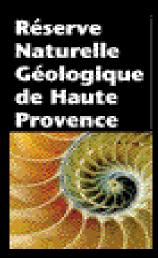


Romania





Spain



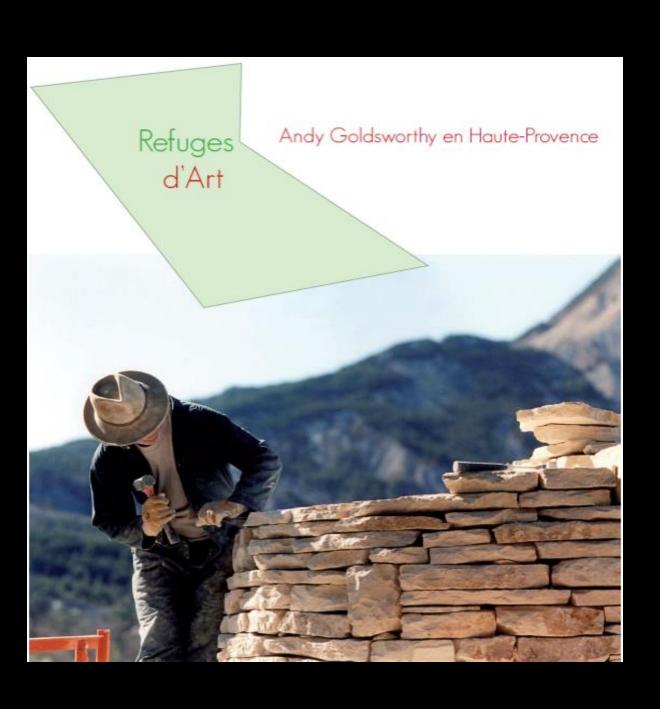
**France** 

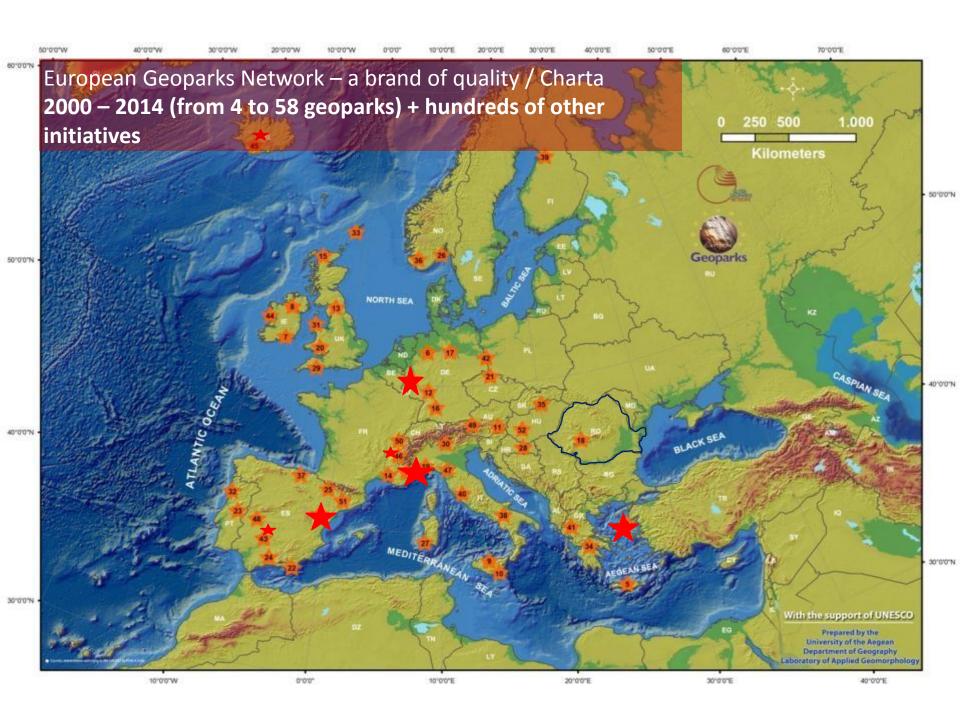
**Brasil** 

Portugal





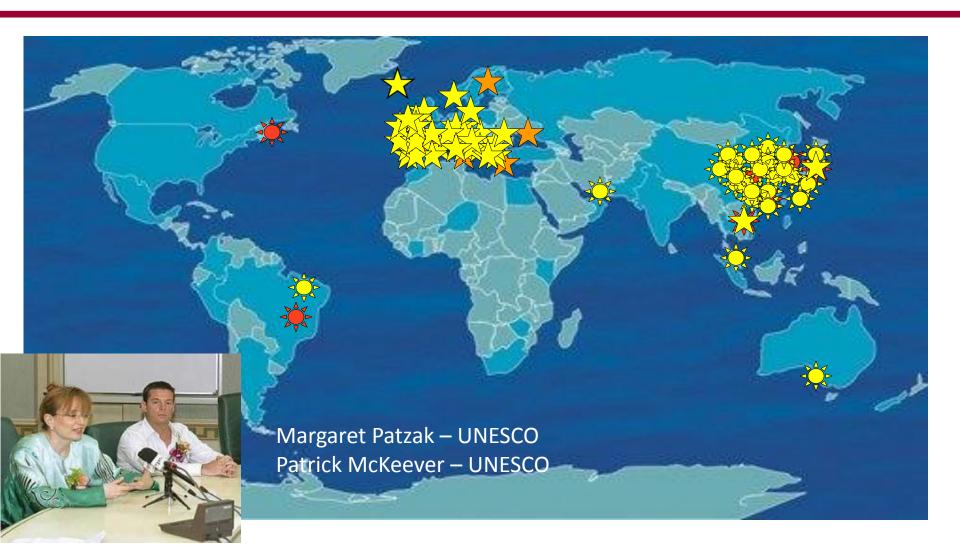








# Chinese & global stories Global Network of National Geoparks / UNESCO (100 geoparks) and 1000 projects



## **Key elements could be analysed by students** (Research question)

- TERRITORY/RESOURCES sustainability;
- PARTNERS and their ROLE (comparison with other territories)
- Commitment of the territory (STRATEGY vs BUDGET);
- REQUIEREMENTS (MANAGEMENT / POLICY) (Evaluation / documents)
- Economic and social BENEFITS (ground zero and geopark impact)
- Specific PROJECTS. From plan to impact analyse.



EGN Charta (2000) UNESCO Guidelines 2004, 2008)

National framework

**Local context** 

#### **BUILDING AND MANAGING A GEOPARK**

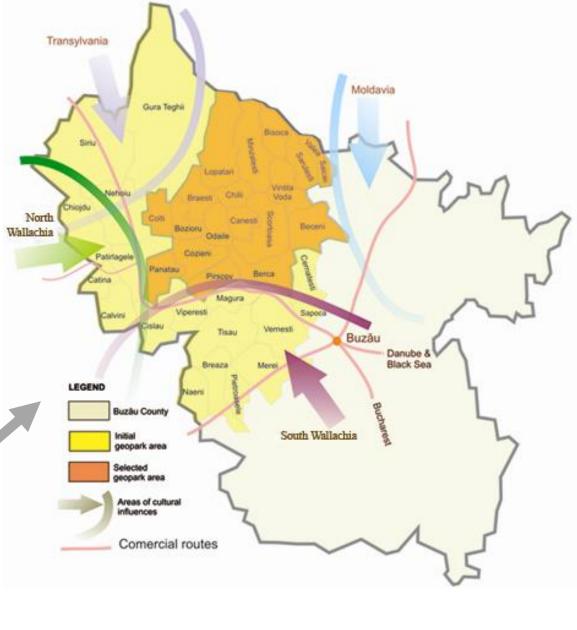
- **1.Territory** well difined borders (optimum territory) (administrative units;
- 2.Clear structure in charge with the geopark project
- 3.Geopark set-up Route map;
- 4. Territorial diagnosis;
- 5. Strategic documents;
- 6.Administrative and scientific board;
- **7.Territorial identity** (logo, ID, logotype, communication strategy);
- 8.Interpretation infrastructure;
- **9.Projects and activities** for tourism, education, heritage conservation;
- 10.Geopark team, secured budget & Activity plan

#### SUSTAINABLE DEVELOPMENT APPROACH

#### **Optimal territory**

A comparison between initial (light yellow) and final areas for the geopark (dark yellow)





#### 2004 Natural park

2005 member EGN & GGN

2005 - 2015 Univerity of Bucharest Management contract





## **GEOPARK DEVELOPMENT & MANAGEMENT**

- Bottom up approach
- Interdisciplinary research studies since 2001
- Close cooperation with local stakeholders
- Strategy for local development (LEADER Territory)
- Partnership
- Association (county council, local councils, APM, universities)
- National partners Peasant Museum, Antipa Museum
- Educational partnership (universities local schools
- International partnership (EGN &GGN)
- Education, research training framework
  - Local curriculum development (Education for SD)
  - Educational projects
  - International area of research (ERASMUS, EVS Course)
- Strengthening local identity, tourism promotion
  - Cultural projects
  - Rebranding "Hateg Geopark"



## Requirements & sensitive points

- Long term strategies
- Political changes / all levels
- Correlate all the activities of the territory: tourism strategy, physical planning, heritage conservation
- Active involvement of local communities
- Lack of experience in common activities
- Passivity of local population / lack of confidence
- Rural areas lack of infrastructure for transport, tourism
- Socio economic development
- Tourism impact on local communities
- Money flow (inside/outside)

The geopark is not about geology is about local community
A geopark has a cultural market value
A geopark is a tool for strenghtening local identity

