

JABAL MOUSSA

Biosphere Reserve

MOUNT LEBANON



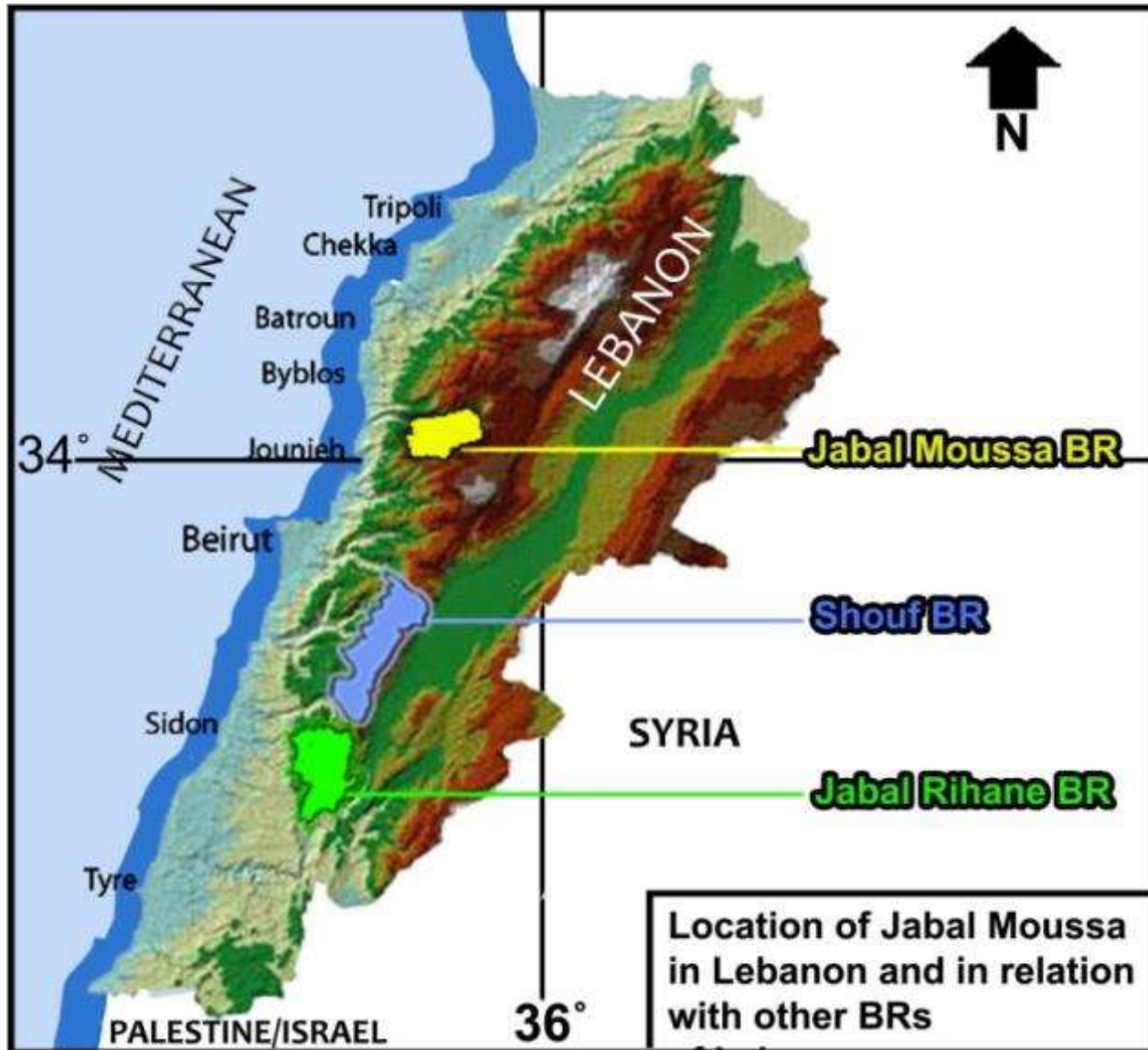
April 6, 2017

euromab 2017

Jabal Moussa Biosphere Reserve:

Three-dimensional value of a **MEDITERRANEAN** landscape
Environmental, Economic, Cultural





Association for the Protection of Jabal Moussa

Our Mission:

- × Conserve and highlight the unique natural and cultural heritage of Jabal Moussa Biosphere Reserve
- × Empower local communities to achieve collectively their own sustainable socio-economic development
- × Build effective partnerships with local and international stakeholders in support of nature conservation and sustainable development



Association for the Protection
of Jabal Moussa

“Our vision is a world in which communities obtain collective responsibility for their own future in the context of their own unique culture and create a growing global network of Biosphere Reserves which preserves the planet for future generations.”

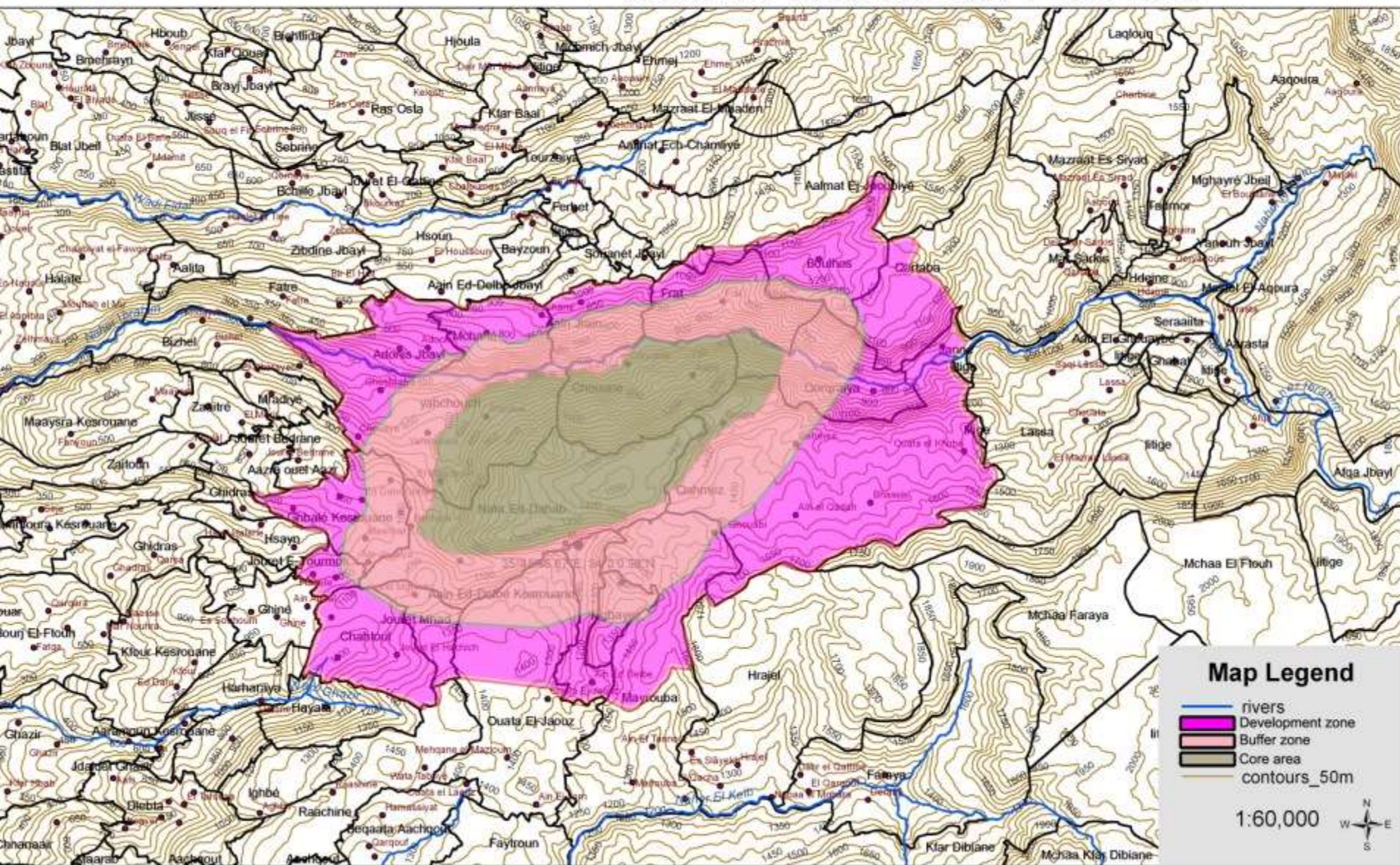
Jabal Moussa Biosphere Reserve

May 2009 - UNESCO
Biosphere Reserve
under the
MAN AND BIOSPHERE
Program (MAB)



Zonation Map

Jabal Moussa Zones



Map Legend

-  rivers
-  Development zone
-  Buffer zone
-  Core area
-  contours_50m

1:60,000



Partnering with International Bodies

Man and Biosphere Reserve (UNESCO MAB)

Global Important Bird Area (Birdlife International)

Member of IUCN



Partnering with Lebanese Ministries

Protected Forest (Ministry of Agriculture)

Protected Natural Site (Ministry of Environment)

Historic site - Roman stairs (Ministry of Culture)

Ecotourism: Tourism Ministry...

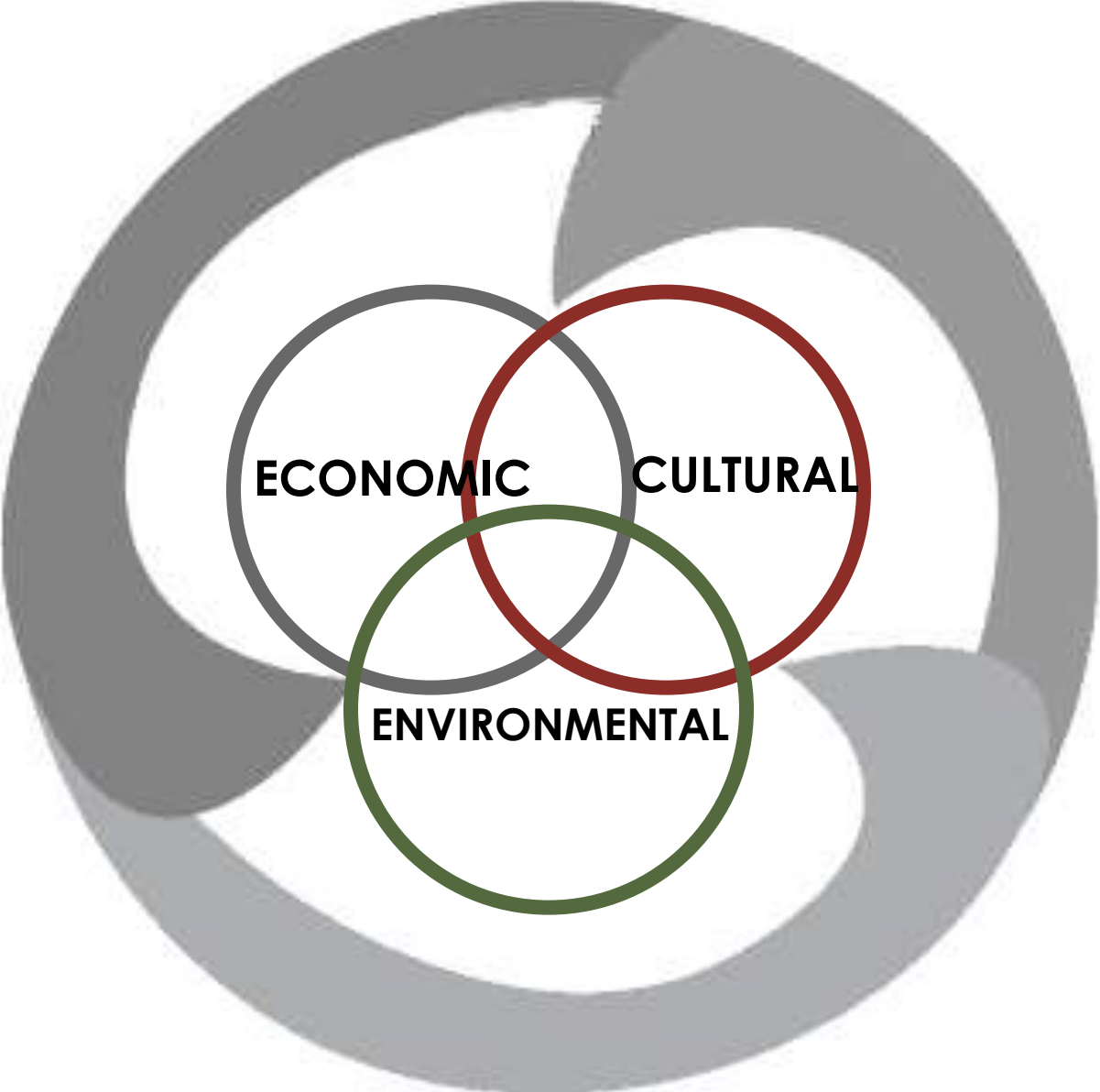
Republic of Lebanon



وزارة البيئة



Three-dimensional approach



1

Environmental value

Jabal Moussa is...

of high **environmental** value...

Surface of core area: 13 km² - Total area: 65 Km²

Altitudes: 350m - 1700m

Bioclimatic ranges: eu-med, supra-med, mountainous med



River Gait

6 endemic species to Jabal Moussa Biosphere Reserve



26 endemic species to Lebanon



Southernmost distribution limits Relic populations



Jabal Moussa hosts...

727 flora species,

20 mammal species,

163 bird species...

Fauna



Fauna



Edge populations of rock hyrax





**How to enhance the
environmental value?**

Legislative tools

Natural Site - Ibrahim River (Ministry of Environment)

Jabal Moussa **Protected Forest** (Ministry of Agriculture)

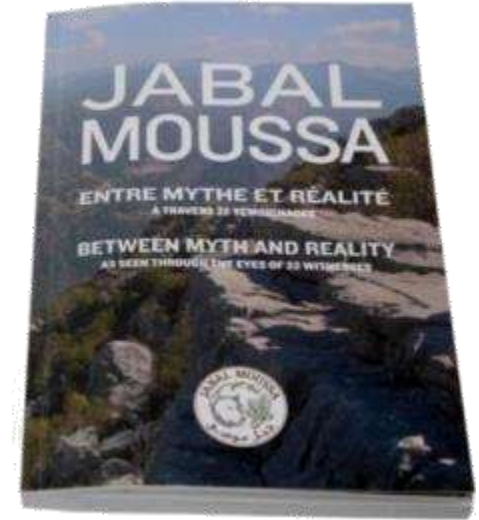
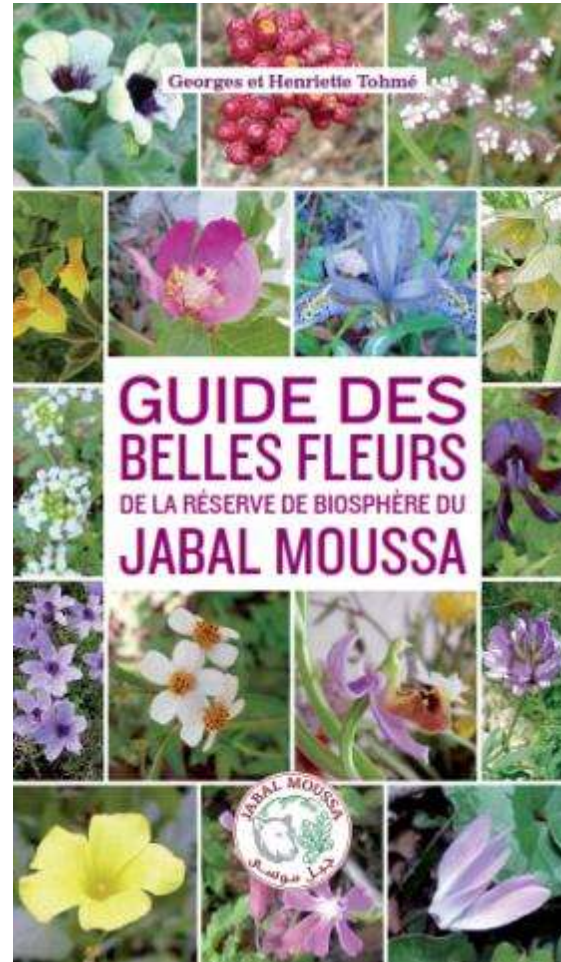
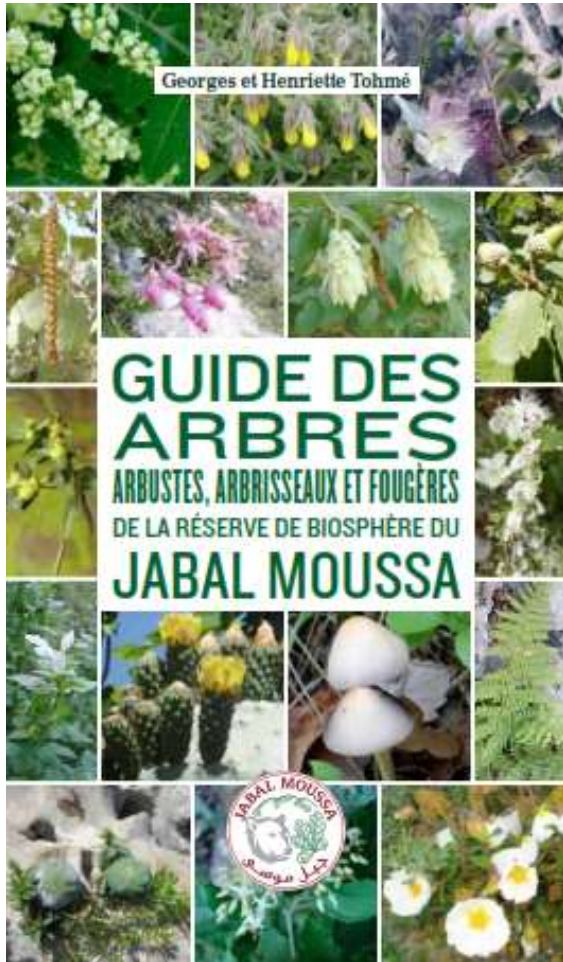
Protected Natural Site (Ministry of Environment)

No hunting decree (Ministry of Environment)

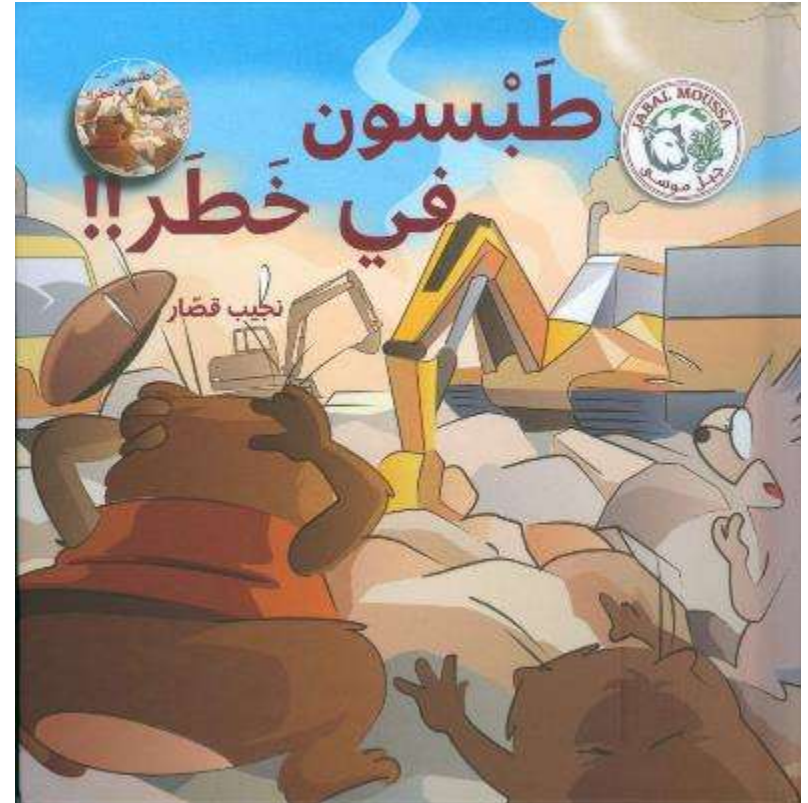
Research



Raising Awareness - Publications



Raising Awareness - Tabsoun



Tabsoon Animation and Games



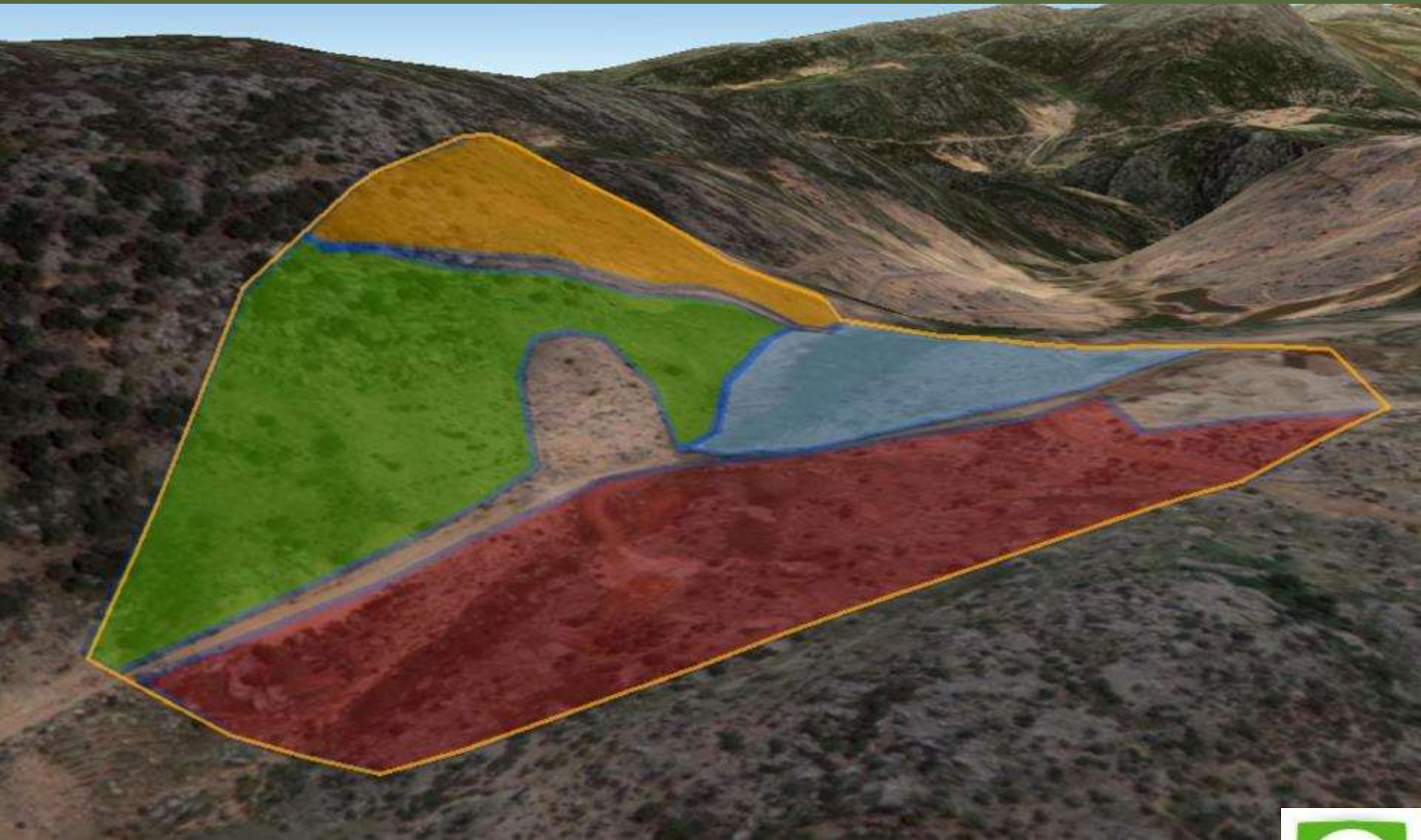
The Friends of Jabal Moussa



Three Native Tree Nurseries



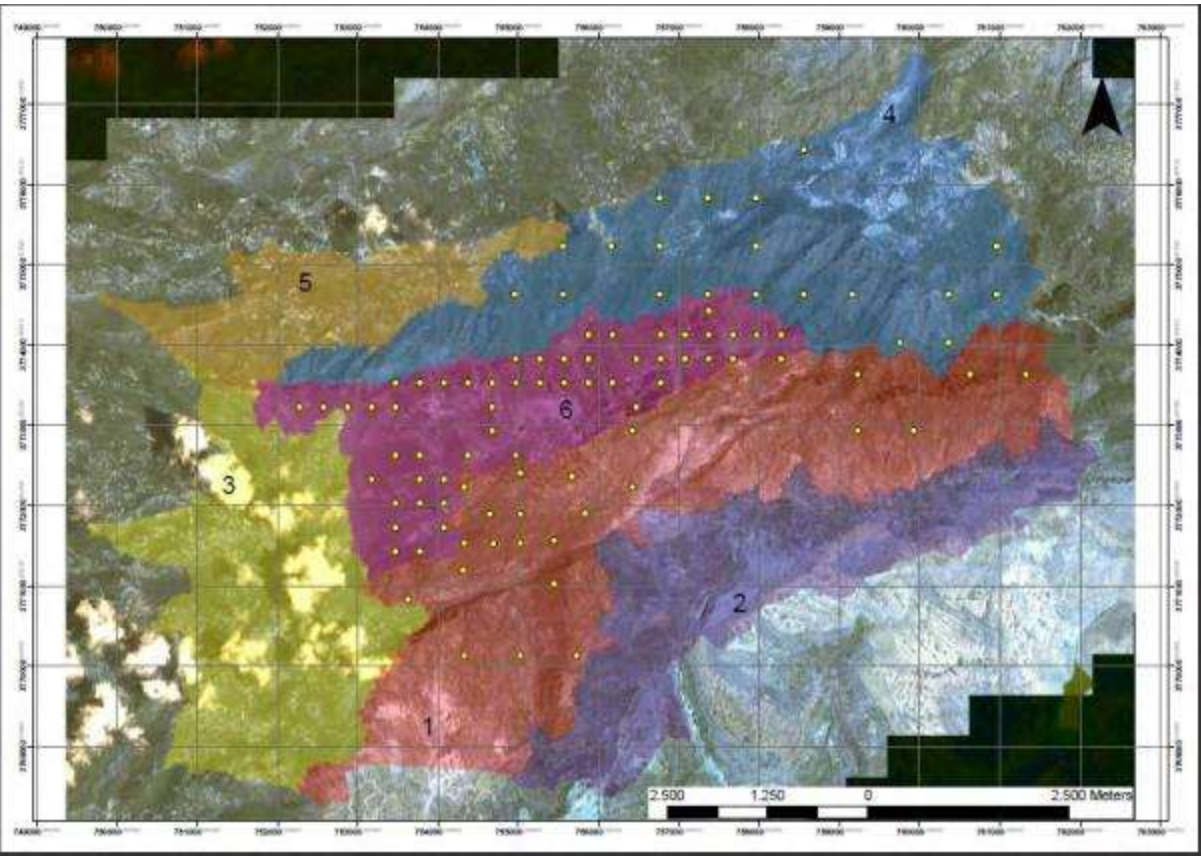
Restoration/reforestation of degraded areas



In partnership with IDAF



FFEM Project – Impacts of Climate Change



Rallying - Protecting Adonis Valley



2

Economic Value



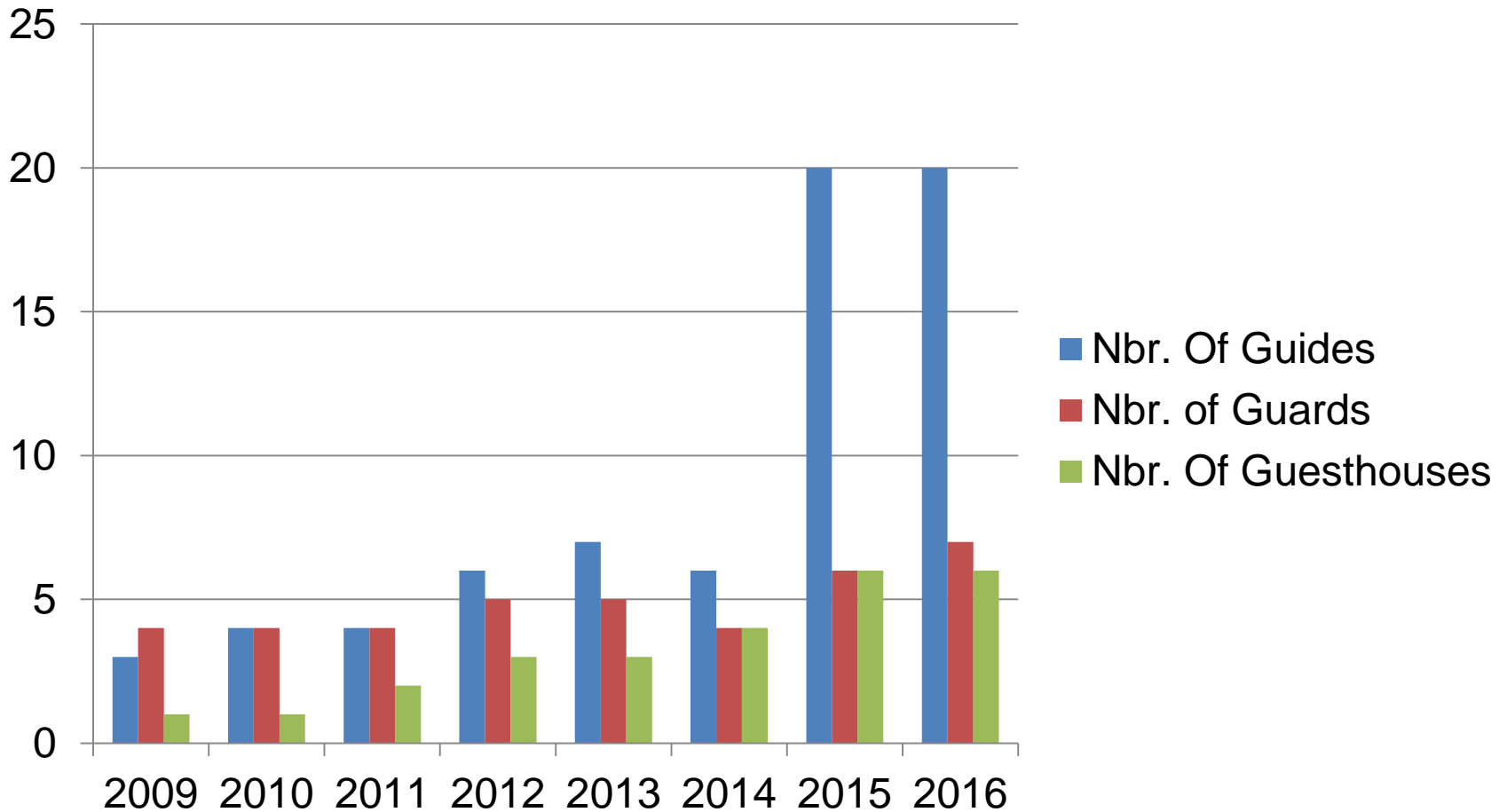
**How to enhance the
economic value?**

Ecotourism



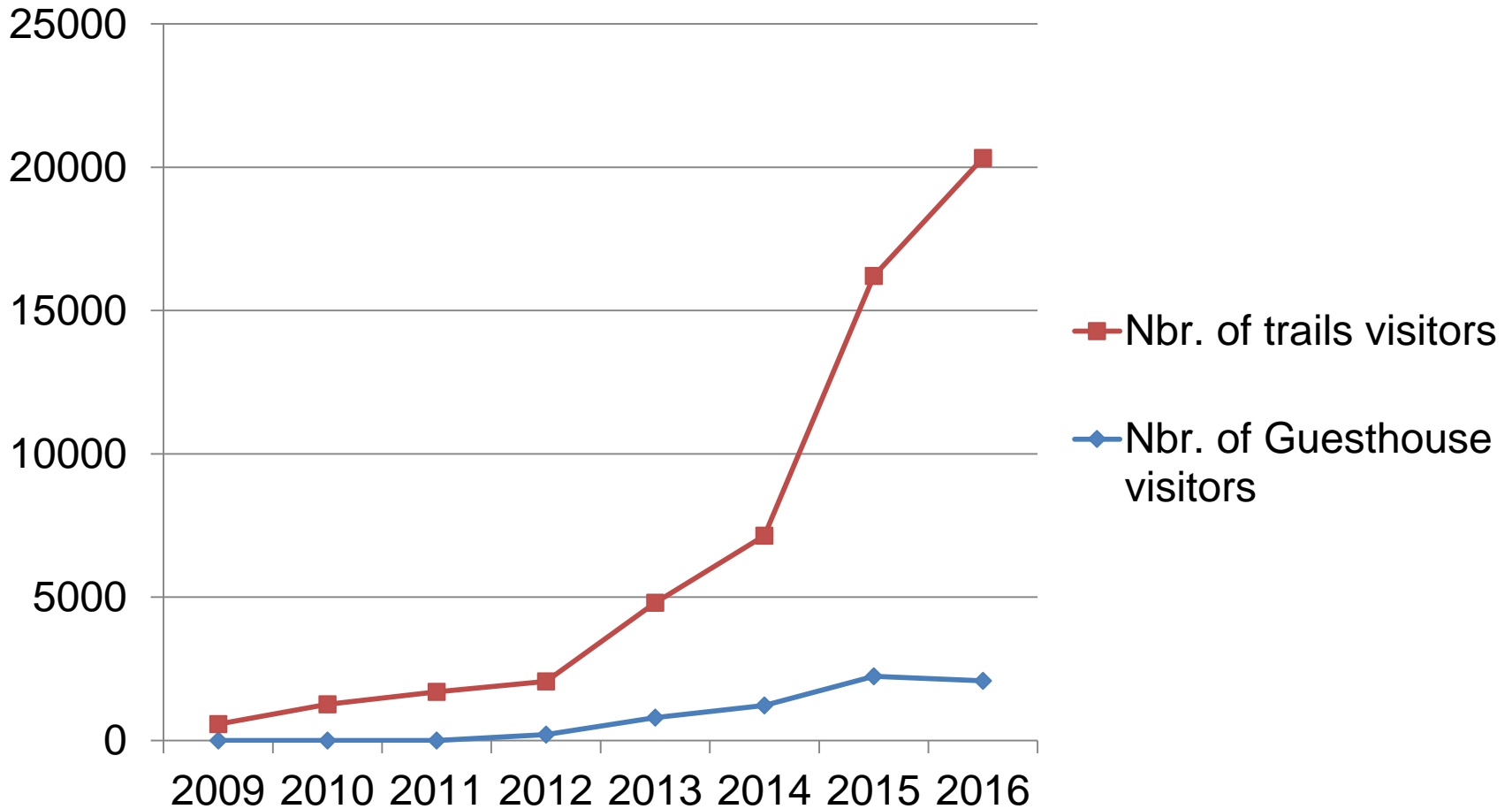
Service Providers

Total number of guides, guards, guesthouses



VISITORS

Total number of trails and guesthouses' visitors













Jabal Moussa®

صنع أدينا...

Food and Handicraft products









Timber v/s non-timber forest products



drosos (...)

3 Cultural value

Jabal Moussa is...

of high cultural value...

Adonis River



MISSION DE PHÉNICIE

DIRIGÉE

PAR M. ERNEST RENAN

MEMBRE DE L'INSTITUT. PROFESSEUR AU COLLÈGE DE FRANCE



PARIS

IMPRIMERIE IMPÉRIALE

M DCCCLXIV

CHAPITRE III. LE FLEUVE ADONIS.

Par sa célébrité historique, ainsi que par les aspects étranges qu'elle présente, la vallée du *Nahr-Ibrahim* (fleuve Adonis) est la région la plus remarquable du Liban. Je l'ai étudiée à diverses reprises et dans presque toutes ses parties. Je ne rappellerai pas ici les nombreux passages des auteurs anciens qui établissent l'importance de cet ancien centre religieux. Les traces du culte d'Adonis s'y retrouvent encore.

Adonis Steles



Ghineh

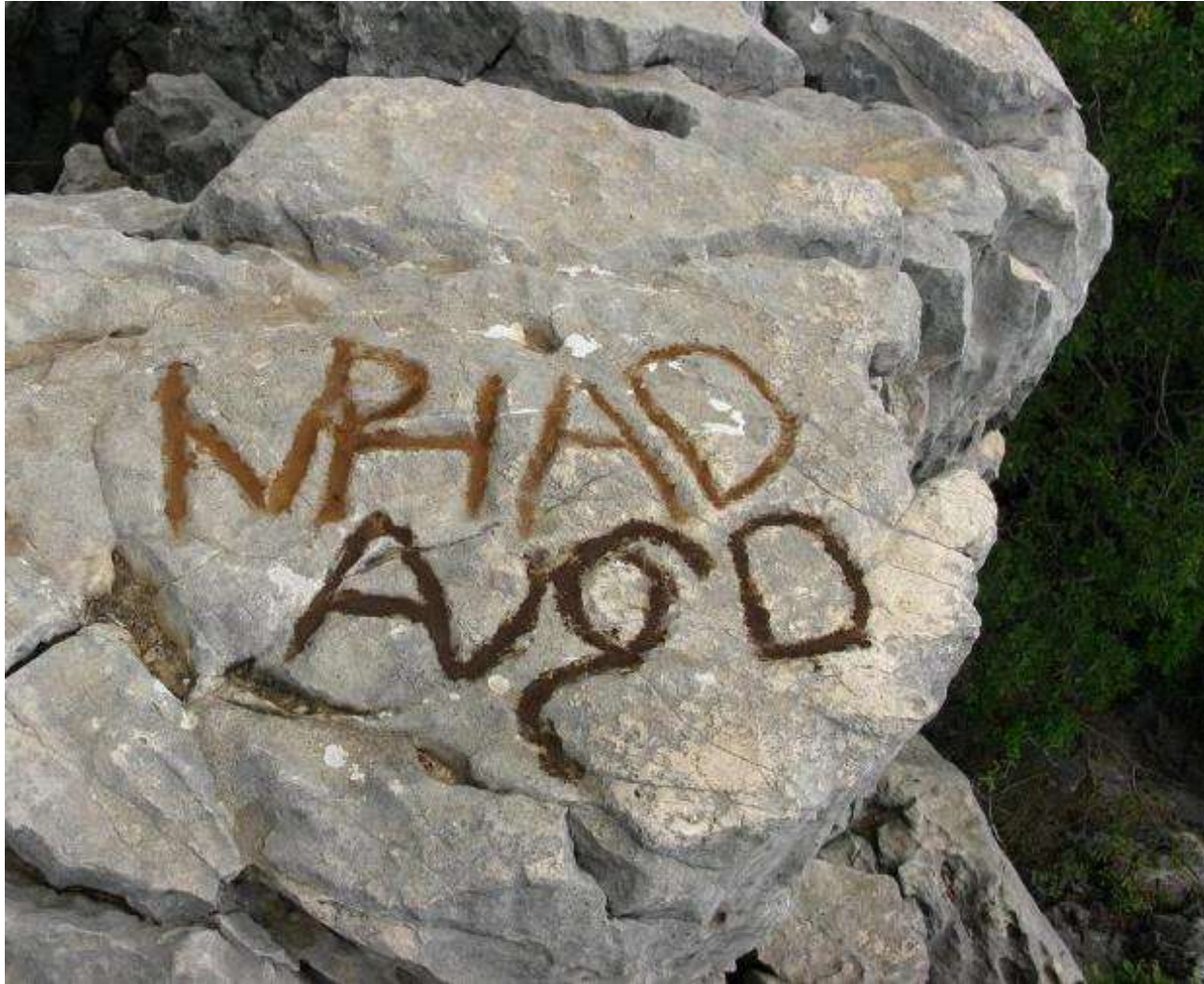


Machnaka

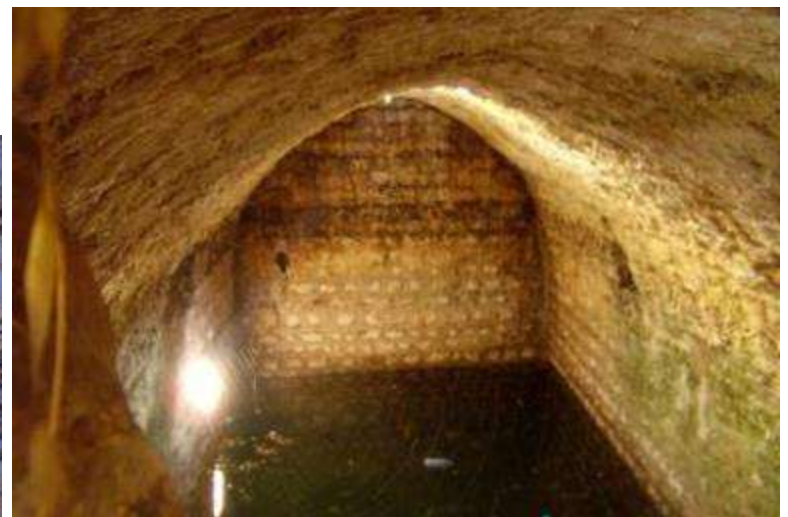
Roman stairs



Hadrian's Inscriptions



Old houses and Cisterns



Abandoned Village



Roman cult sites



**How to enhance the
cultural value?**

Research and surveys



Pottery sherds (© [Janbour])



Rehabilitation of cultural sites



Raising Awareness



Qornet el Deir

قرنة الدير



This site on the top of a hill, overlooking the Roman road, presents itself as an almost circular flat space within a natural compound enclosed on all sides by rocks some over 4 to 5 m high protecting it from any outside incursion. Some of these rocks were deliberately cut and finished by the inhabitants. The outstanding position of the site as an outpost controlling movements of goods and people along the Roman road leaves no doubt about its strategic value.

يُشرف هذا الموقع من على رأس تلة على الطريق الروماني المحاذي له. يشكل مساحة مسطحة شبه دائرية ضمن إطار طبيعي، مُحاط بصخور يرتفع بعضها أكثر من 4 - 5 أمتار، مما يعطي هذا الموقع حماية طبيعية من أي غزو خارجي. تم تقطيع وتجميع أجزاء من هذه الصخور من قبل السكان. موقع هذا المكان المميز الذي يؤمن السيطرة على حركة البضائع والناس على طول الطريق الروماني لا يترك شك حول قيمته الاستراتيجية الكبيرة.



Legislative tools

Archaeological Sites Homologation - Roman stairs, Hadrian's inscriptions, Qornet el Deir (DGA-Ministry of Culture)

Cultural Routes – Request for Accession of Lebanon to three Mediterranean Routes: Phoenicians, Olive Tree, Iter Vitis. JM can have a role in each.

Management Philosophy

“HELICOPTER PERSPECTIVE”

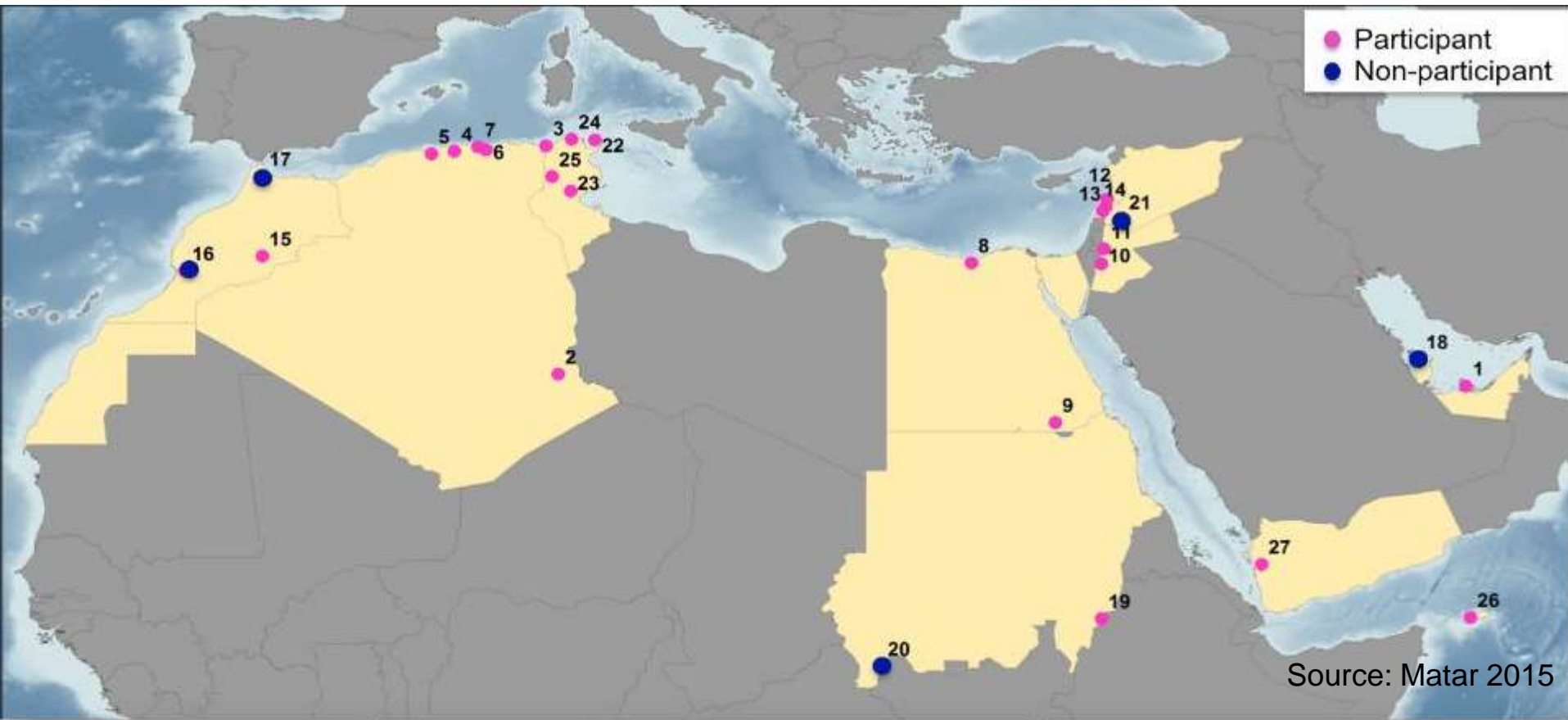
- PARTICIPATIVE +
ADAPTIVE
(COMMUNITY)

- WORLD CLASS
AFFILIATIONS
(TOURISM, TRAINING,
TWINNING, FUNDRAISING)

= UNBEATABLE



The ArabMAB Network



- UAE** ● 1. Marawah
- Algeria** ● 2. Tassili N'Ajjer
- 3. El Kala
- 4. Djurdjura
- 5. Chrea
- 6. Taza
- 7. Gouraya
- Egypt** ● 8. Omayed
- 9. Wadi Allaqi

- Jordan** ● 10. Dana
- 11. Mujib
- Lebanon** ● 12. Jabal Moussa
- 13. Jabal Al Rihane
- 14. Shouf
- Morocco** ● 15. Oasis du Sud Marocain
- 16. Arganeraie
- 17. Intercontinental BR of Mediterranean
- Qatar** ● 18. Al Reem

- Sudan** ● 19. Dinder
- 20. Radom
- Syria** ● 21. Lajat
- Tunisia** ● 22. Iles Zembra et Zembretta
- 23. Djebel Bou-Hedma
- 24. Ichkeul
- 25. Djebel Chambi
- Yemen** ● 26. Socotra Archipelago
- 27. Bura'a

The Mediterranean Biosphere Reserve Network (RRBBMed)



MED MAB'S VOCATION AND CONTRIBUTION: BRIDGE THE EAST-WEST DIVIDE

- 1. CONDUCT GAP ANALYSIS**
- 2. ASSIST/TRAIN TO CLOSE GAPS
WITHIN MED MAB COMMITTEE**
 - FACILITATE EXCHANGES
 - TARGETED TRAINING, TWINNING
 - TAILOR-MADE WORKSHOPS



MED MAB'S VOCATION AND CONTRIBUTION: BRIDGE THE EAST-WEST DIVIDE

3. PUSH FORWARD JOINT PROJECTS TO FACILITATE COOPERATION/INTEGRATION:

- ✓ Ecotourism
- ✓ Science: rare/endangered species, migratory birds, climate change.
- ✓ Forestry: Reforestation, Grazing mgmt, Pruning.
- ✓ Medicinal-Edible-Aromatic Plants.
- ✓ Visibility + Communication: Joint Marketing of MED Biosphere Reserve Network.

4. FACILITATE , TRAIN FOR EFFECTIVE FUND-RAISING:

- MULTILATERAL
- CORPORATE CSR



“Nature is not a place to visit. It is home.”

Gary Snyder



Thank You!



www.jabalmoussa.org