



# Shouf-Jezzine Geopark, Lebanon











#### **Association for Community & Environment - ACE**

A non-political, not-for-profit association that was established in 2014.



#### ACE aims:

- > at strengthening community resilience and identity through projects related to natural and cultural heritage
- > to mainstream science and the environment in decision-making

ACE focuses on the valorization of geodiversity and the conservation of Geo heritage.

ACE's main pillar in **cultural heritage** embodies **artisanal work** and **ancestral vocations**, specifically in Mediterranean coastal communities.

ACE's programs cover awareness raising, capacity building, institutional strengthening, pollution impacts & remediation, governance in waste sectors, and protection of the environment, public welfare & human health..

#### ACE:

- ➢ Hosts the national chapter of the International Association for Promoting Geoethics (IAPG)
- Represents the African Geopark Network
- > Is an **IUCN** member
- Is a member of GOGEOPARKS



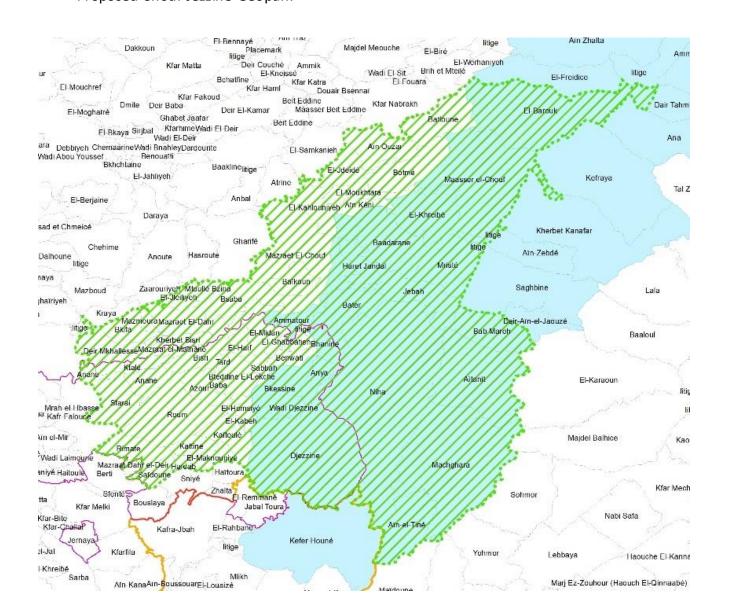




**IUCN** 

#### Study area

#### Area Proposed Shouf-Jezzine Geopark = 319.00738 km<sup>2</sup>



Haret Horalk 1:238,105 Redohane Mohařdcě Reit Lahia Khellet Khazen Nabativé El Tahta Proposed Shouf-Jezzine Geopark Jezzine Nature Park Jabal el Rihane Biosphere Reserve 35°30'0"E 35°40'0"E

#### Study of Key Biodiversity

Flora assessment and its linkages to geology



#### Study of Key Biodiversity

#### Non-volant terrestrial mammals assessment



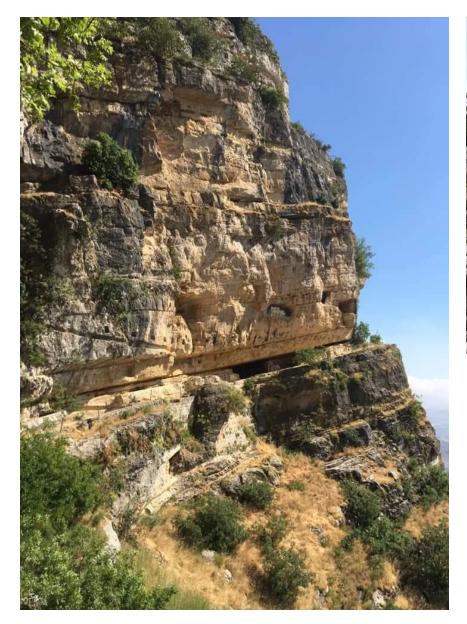


#### Study of Key Biodiversity

Avifauna assessment



#### Study of Archeological and Cultural Assets



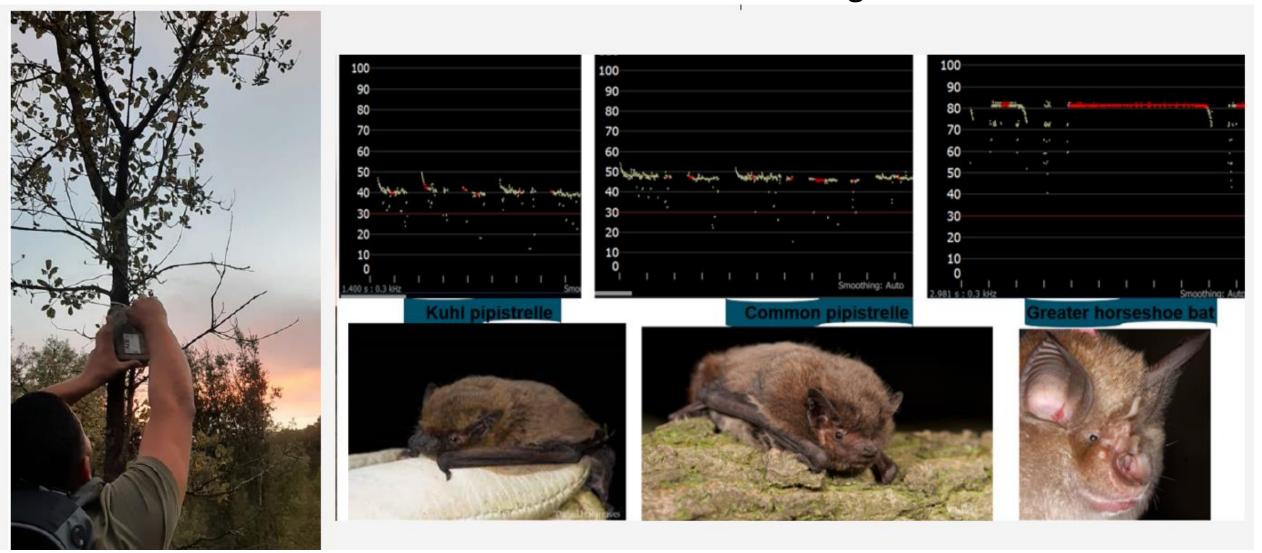






#### Study of Bat Species

Bat assessment and monitoring



Geology and Geohazard













Hydrology



#### Pedology



#### Awareness Campaign



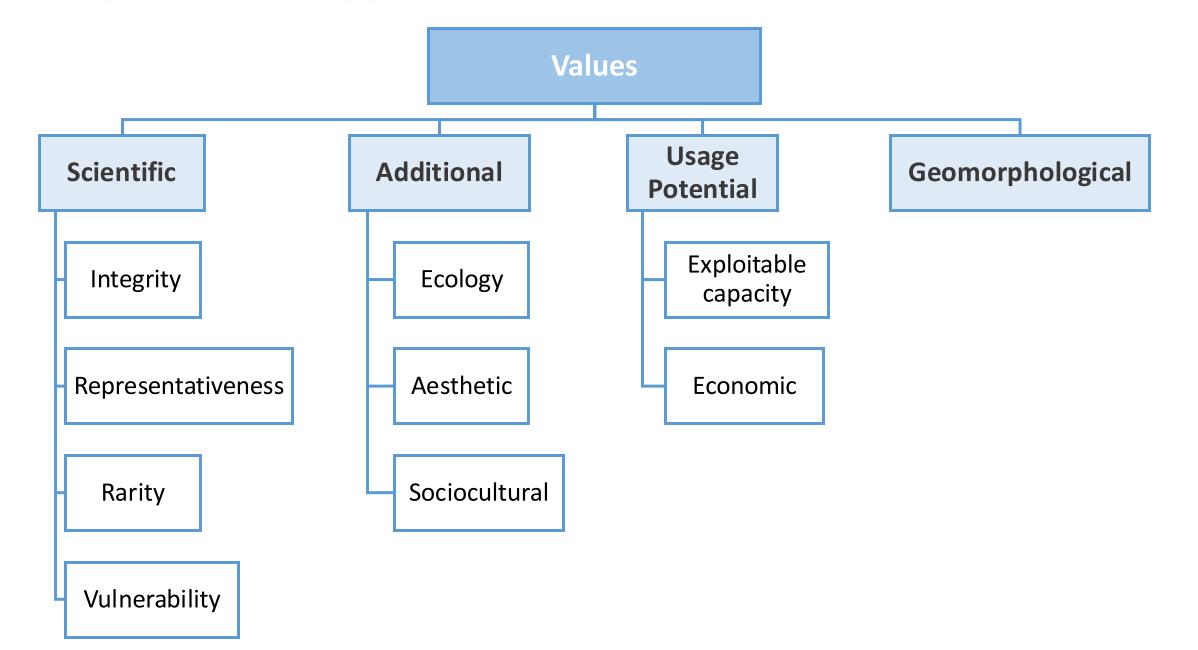
Awareness on bats for schools



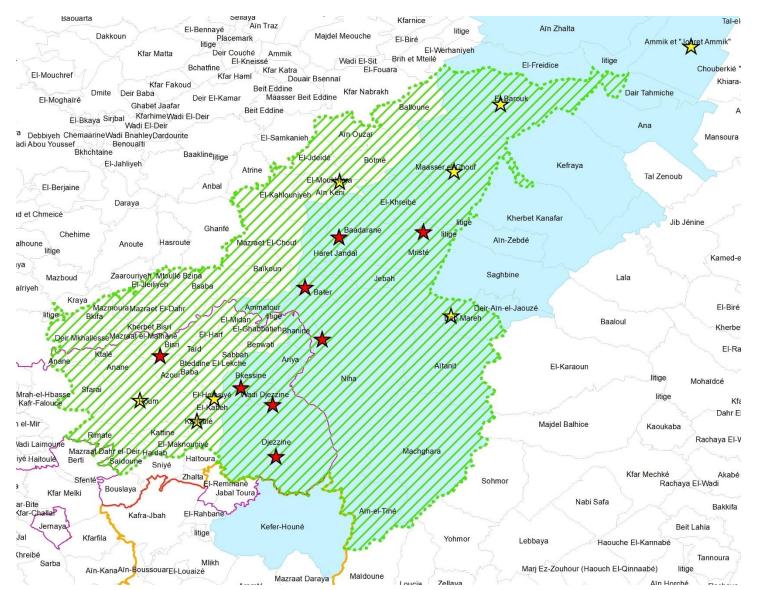


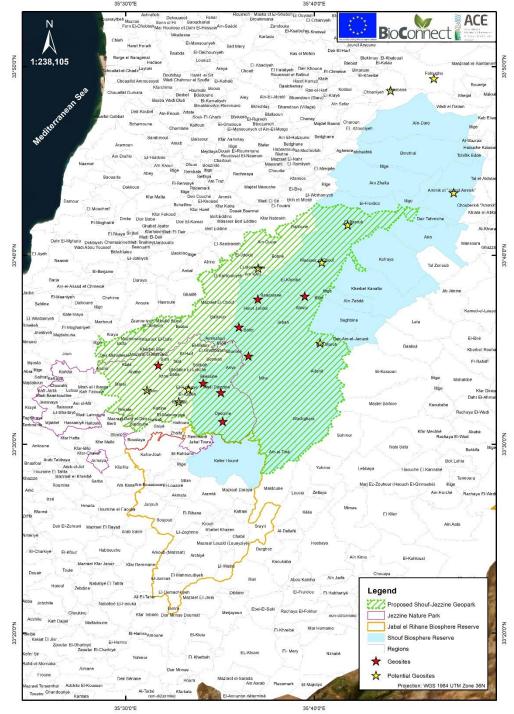


#### Criteria for identifying geosites



### Mapping of Geosites



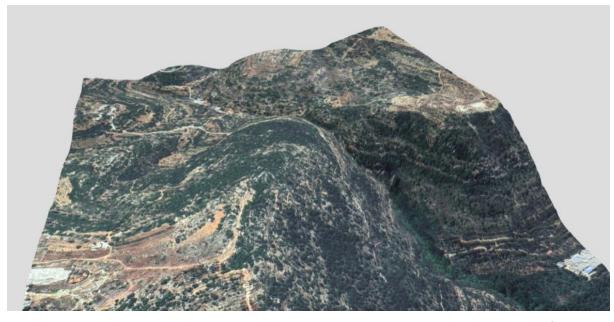


#### Identified Geosites



### 3D mapping of Geosites





**Aamatour - Bater** 



Baadaran

**Niha Fortress** 

#### Decree of the Geosite

مرسوم رقم

استحداث فئة المواقع الطبيعية الجيولوجية وتحديد أهداف ومعايير تصنيفها ومناهج إدارتها Delineation and Valorization of Hiking Trails for use

as Ecological Corridors

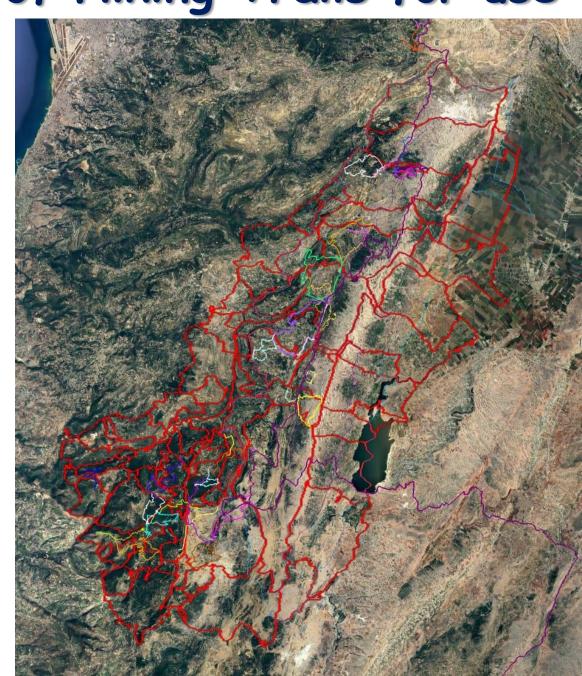
Data collection

Existing trails – Protected areas – Geological sites – Key biodiversity areas – Biodiversity protection corridors – Hima – Archeological sites – Cultural heritage – Traditional buildings...

Selection process

Protection Guideline draft

Validation & appropriation



# Delineation and Valorization of Hiking Trails for use as Ecological Corridors

	Trail	Description	Important sites, landmarks and small businesses along the trail							Selection	criteria									Exclusion Criteria		
Organization name				Linkage			The value of the trail					Sur		Ownership		Economic			F	F	F	
				Natural areas	Built areas	Result	Natural areas	Built areas	Intangible heritage	Panoramic views	Result 1	Synergy with LMT	Result 2	Public property	Private property	Religious property	Economic return	Result 3	Result	Exposure to landslides		Exposure to River flood
Lebanon Mountain Trail LMT	LMT trail - Section 17 - Falougha - Ain Zhalta	Level: Challenging Length: 15 Km Total accent: 414 m Total descent: 542 m	Soha Village resort - First Lebanese flag raised (Cedar mountain) - Scenic view to Hamana 1452m (Ain en Meour) - Camping apot (Falougha) - French World War II Trenches (Dahr el Bayda) - Nabas al Kharze - Chatesut rois Collines Winery - Ain al Houe - Ain el Saoude - Old bridge (Ain Dara) - Cedar ground Camp (Bmohra) - Ain Alalta Nature reserve entrance  Hima Hammana  World music day (Ain Zhalta) - Hannibal Race- Adventure Race - Moonlight Walk - Horseback Riding	Titina lineau   Titina lineau   Titina lineau   Pictodral sean   Pictodral sean   Titina lineau   Titina lineau   Titina lineau   Titina lineau   Pictodral rises   Pictodral rises   Viet seach   Titina lineau   Titina	Child village Archeological silves Fistentical vites	5	☐ Agricultural lands ☐ Wither Bookes ☐ Forests ☐ Wither springs	□ Wilege squares □ Archeological vites □ Traditional locuses □ Historical buildings □ Bridges □ Milks and Phenous	P Social interactors     □ Giveny ets     □ Giveny ets     □ Goldens     □ Local tracificors and Mentyle	×	5	LMT	1				1	0	11			
Lebanon Mountain Trail LM	LMT trail - Section 18 - Ain Zhalta - El Barouk	<u>Level</u> : Challenging Length: 15.5 Km Total accent: 544 m Total descent: 681 m	The Trail of Cultural Heritage and Traditions of Maaser ech- Shouf El Shouf خرب القرائات والقالية مصدر القوات آخر - القرائات والقالية مصدر القوات FarmVille, Barouk - Nature whisper (exhibition) - World music day (Ain Zhalta) - Hannibal Bace- Adventure Race- Moonlight Walk - Sunset Mood Walk - Horseback Riding	F Nature Reserve F Boogham Reserve P Rotected sown F Forests G Geological sites G Geological sites F Boodiseantly protection considers F Key Bloodiseantly sees F Worksonth F Home	Child village Anthrological vilne Elistorical vilne	3	F Agricultural lands F Water Bodies F Forests F Water springs	Wileys squares  Archeological stee  Final bounds  Fisherical buildings  Fisherical  Bridge  Mills and Pressure	F Social references  Cultury arts Flokings Flokings Flokings Flood traditions and Heatyle	×	4	LMT	1				-	0	8			
Lebanon Mountain Trail LM	LMT - Connection to Ain Zhalta		Shouf Highland (Bar) - Pastty (Patistry shop) - Pine Woods - Maamadani awimming pool - La maison des sources (guest Mouse) - El Elid guest house Castle guest house - Restful guest house The Farm of Abou Saab Brothers - World music day (Ain Zhalta) - MedSNAIL (local market) - Hannibal Face- Adventure Race - Moonlight Walk - Horseback Riding	F Nature Reserve F Bonghere Reserve P Bonghere Reserve P Protected sown F Formats G Geological when F Geological when F Bodishershy sown F Naty Bodishershy sown F Workfarch F Hama	F Chit vilage  Archeclogical vites  F Hatorical vites	3	☐ Agricultural lands ☐ Wider Bockes ☐ Forwels ☐ Wider springs	□ Village squares □ Archeological sites □ Traditional bosses □ Historical buildings □ Bridges □ Mills and Pressure	F Social interactions  G Cultury arts  T Column  F Louise  F Local traditions and bloomle	×	5	LMT	1				4 guest houses	4	13			
Lebanon Mountain Trail LM	LMT - Connection to Barouk		Rest Bench Cedar Way (Cafe) - El Barouk Nature Reserve entrance - Al Ghabat Rectaurant  Boustany Guest House (Barouk) - El Aked Guest house - Ceara guest house - Akram guest house - Astra guest house - Dacha guest house house - Guest house - Care guest house - Farm Yille-Barouk - Nature whisper (exhibition) - Farmer Markets - Sunset Mood Walk	Filters Reserve   Bitosphere Reserve   Bitosphere Reserve   Fibrosheri Reserve   Fibrosheri Reserve   Fibrosheri Reserve   Genéracy of when   Fibrosheri Reserve   Fibrosheri R	Chit vilage Archeological vites Fistorical vites	2	☐ Agricultural lands ☐ Wider Bookes ☐ Forwels ☐ Wider springs	□ Village squares □ Archeological sites □ Traditional houses □ Historical hashings □ Bridges □ Mills and Pressure	F Social retructors  G Cultury arts  Coldinary  Todakous  F Local traditions and blookle	×	5	LMT	1				7 guest houses	7	15			
			El Barouk Nature Reserve entrance - Marj el Qaaq - El Shouf Cedar Nature Reserve Barouk Forest highest point 1818m -	F Nature Reserve	F Clidvillage □ Archeological sites		☐ Agricultural lands ☐ Water Bookes	F Wilage squares	F Social interactions F Cultury arts													

Selection criteria

#### Awareness sessions conducted by experts





Dr. Awatef Abiadh, bats expert

Shady Indary, mammals expert

#### Awareness sessions conducted by experts





Dr. Soumaya Ayadi, geology expert

Dr. Jean Stephan, biodiversity expert

#### Management plan for the aspiring Geopark



### Management plan for the aspiring Geopark

educational farm visits

Shouf-Jezzine Geopark management plan Tourism and Sustainable **Education and Public** Administration and Socioeconomic Agriculture **Biodiversity and Ecology** Development **Awareness** Development Governance Agriculture and Archaeological Research Geoconservation: School and University Local Economic Growth: Geopark Management and **Ecotourism Strategies:** Sustainable Farming: Flora and Fauna and Conservation: Partnerships: programs enhancing livelihoods Coordination: oversight of preservation and Conservation: protecting promote eco-friendly promoting local culture and protection and study of management of geological integrating geopark themes through sustainable policies, programs, and native species and habitats practices, agrotourism, historical sites formations into education practices initiatives geofood and local food production Infrastructure and Visitor Stakeholder Engagement: Cultural Heritage Workshops and Training: Community-Based Geotourism Development: Services: development of collaboration with Enterprises: supporting Promotion: awareness Reforestation and land capacity building for Women's Empowerment: promoting geosites for trails, visitor centers, and government, public sector, rehabilitation guides, farmers, rangers local crafts, markets, and support female-led programs and integration education and tourism accommodations private sector, and civil with tourism and conservationists businesses agricultural initiatives and (guesthouses, hotels,...) society entrepreneurship Museum and Research and Monitoring: Marketing and Promotion: Citizen Science and Public Employment and Training: **Funding and Resource** Interpretation Centers: collaboration with scientific Sustainable Land Use: Youth Engagement: branding the geopark for Engagement: community iob creation and skills showcasing archaeological institutions, universities balancing conservation Allocation: ensuring educational programs, skill national and international participation in development in geopark with local livelihoods findings and regional and NGOs for ongoing financial sustainability development, and environmental monitoring recognition related activities sustainable practices history studies training Geopark Interpretation Inovative and Research: **Outdoor Activities:** Monitoring and Community Involvement: and Education: Wildlife Monitoring and utilizing GIS, 3D scanning, Social Inclusion: ensuring rappelling, hiking, Evaluation: assessing NGOs and Civil Society: local participation in signage/panels, guided Research: tracking and advanced technologies benefits for all community snowshoeing, camping, progress and impact of partnerships for biodiversity trends for geospatial studies and preserving heritage sites tours, and outreach members mountain biking trails geopark initiatives conservation, education, heritage documentation programs and rural development Fossilarium: establishment Outdoor Activities: hiking. Outdoor Activities: field Focus Groups: community Outdoor Activities: of a space for fossil birdwatching, eco-trails, trips, workshops, outdoor based discussions for archaeological sites tours preservation, and public wildlife photography learning sessions feedback and participatory education decision-making (farmers...) **Outdoor Activities:** geosites tours, fossilarium Outdoor Activities: visit, geotrails agrotourism, and

#### Management plan for the aspiring Geopark

Collaboration with international geoparks, including:

- Vulkaneifel Geopark in Germany
- Oeste Geopark in Portugal
- M'Goun UNESCO Global Geopark in Morocco
- Bauges Geopark in France





