



***CONNECTING PEOPLE AND PLACE: AN EXCHANGE ON
BIOCULTURAL INDICATORS***



COMANAGEMENT OF THE AL HOCEIMA MARINE PROTECTED AREA, THROUGH THE SYNTHESIS OF LOCAL BIOCULTURAL KNOWLEDGE AND PRECISE EX SITU KNOWLEDGE MEASUREMENT METHODS



CDB Conference

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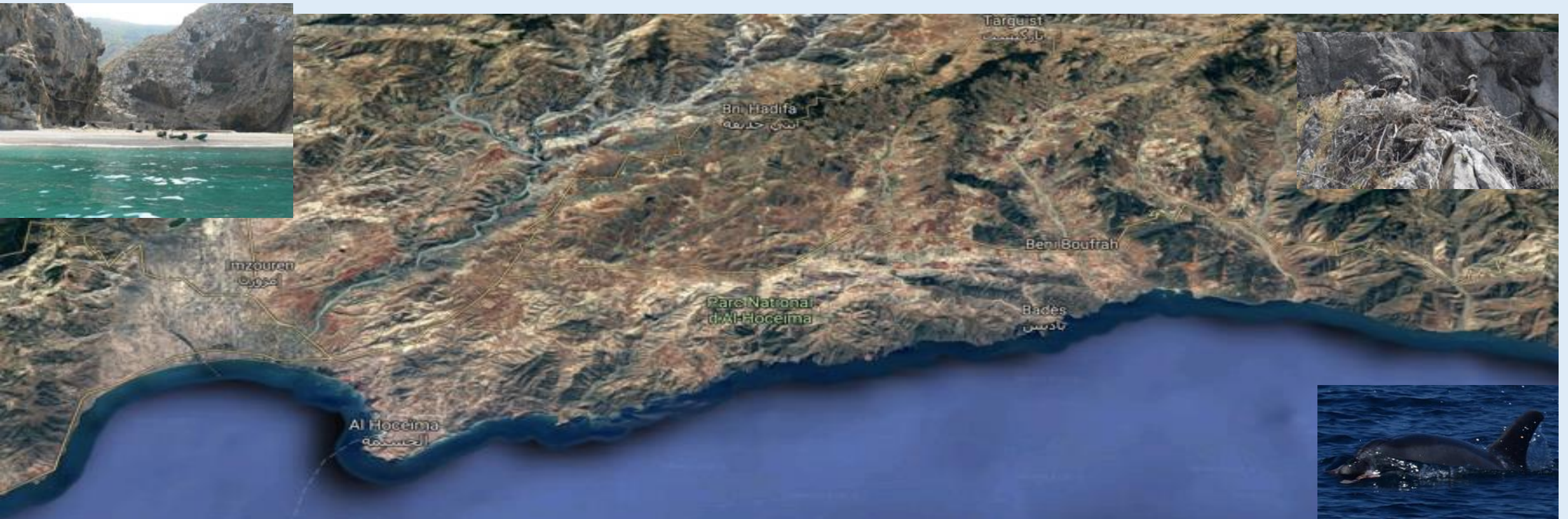


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727277

**CRITICAL ECOSYSTEM
PARTNERSHIP FUND**

AL HOCEIMA NATIONAL MARINE PARK OBSERVATORY

- **Al Hoceima National Marine Park** (48000 Ha, including a sea area of 19600 Ha), is one of the most representative Mediterranean biotope for its high biodiversity
 - It is Home to several rare and endangered species listed on the IUCN Red List
 - It contains the Mediterranean's largest population of osprey and a reserve of red coral
 - It is home to 3 varieties of **dolphins**, 69 species of birds and hosted the last population of monk seals (disappeared since 2003), rays and sea **turtles**.
 - It is also, home to pink flamingos, migratory birds, ospreys.



THREATS & PROBLEMS



- Traditional fishing is one of the major economic incomes for precarious local people
- Rapid demographic enhanced pressures on the marine environment and the use of illegal fishing activities
- Sector weakened by the lack of an appropriate infrastructure, the decrease of the fish stock and the lack of organization of artisanal fishermen
- Lack of a true local management system based on respect for community biocultural knowledge, that's essential to cope with global changes,
- yet these in situ socio-ecological systems are often not respected and ignored at either national or global level.

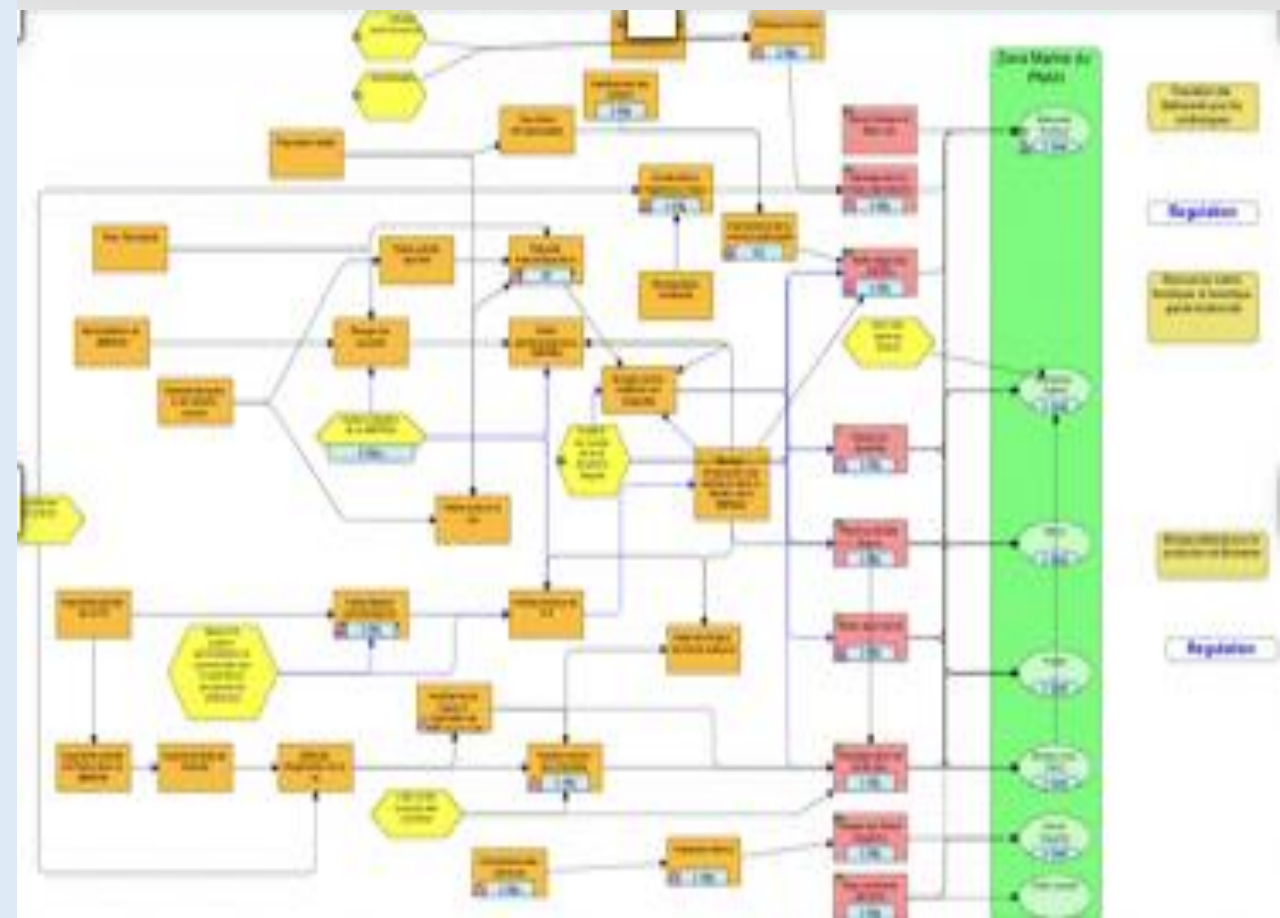


SOLUTIONS :TRADITIONAL FISHING KNOWLEDGE REINFORCEMENT

- AGIR facilitate the identification analyse crucial problems
- **Implicate local community in solutions** that take into account ecological and socio-cultural in term of **Vision & goals objectives threats factors**
- Training through **Nomenclature of the indicators & participative planification**
- Allows feedback in a transversal approach, linking end users from local, national and global initiatives frameworks.

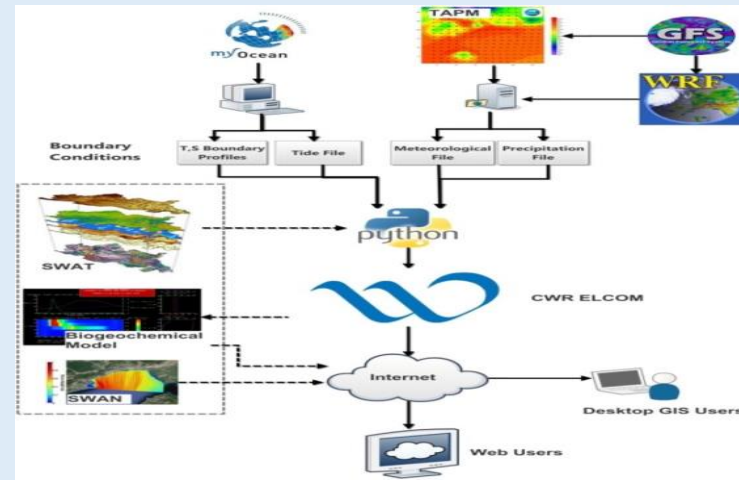


<https://panorama.solutions/sites/default/files/guide-de-bonnes-pratiques-amp.pdf>



MONITORING AND EVALUATION ARE ESSENTIAL TO ENSURE INNOVATIVE, MULTI-SCALE AND INTERDISCIPLINARY APPROACHES TO ACHIEVE EFFECTIVE SUSTAINABILITY

- Biocultural approaches, combined with measures of indicators through methods of synthesis based on evidence from multiple sources, such as the ODYSSEA Project
- Example: “Operating a network of integrated observatory systems in the Mediterranean Sea”, which links nine Mediterranean and European regional technological observatories, made up of 31 academic, scientific and non-governmental institutions including AGIR.



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مدة الانجاز :

AGIR IS HELPING TO ADOPT INNOVATIVE POLICIES AND MANAGEMENT TO REDUCE THREATS

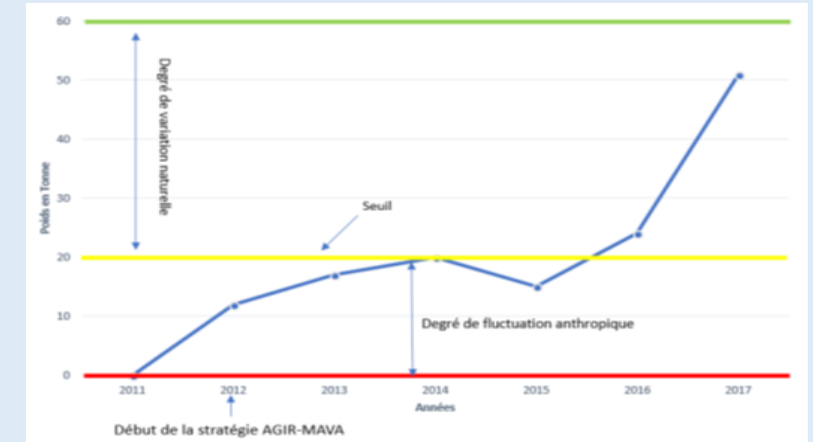
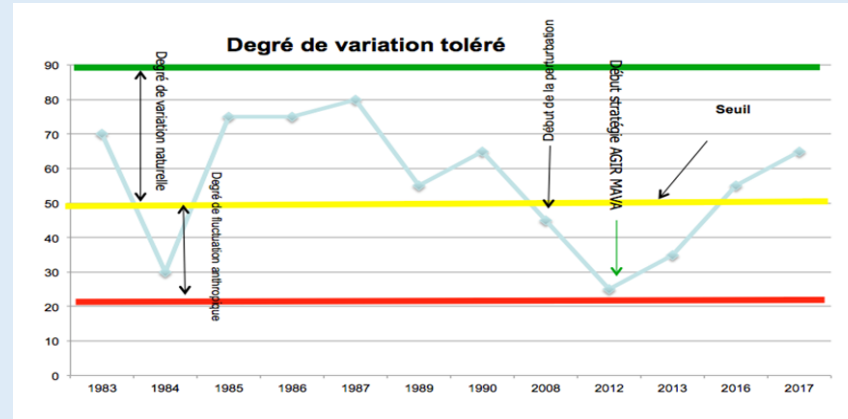
- Project links the provision of services to local users, according to a socio-ecological system;
- Biocultural approach to development indicator; **Wellbeing / Governance Resilience**
- By adopting policies and management that recognize **In situ and Ex situ knowledge** ; strategies has been synthesized, which has reduced several threats and even eradicated dynamite fishing (especially since it is ancestral) within Al-Hoceima National Park.



- Conclusively, the **Restoration** of the ecosystem state from a **high degradation state** to a current **middle health state** .

<https://agirimed.files.wordpress.com/2018/10/rapport-scientifique-zmpnah-sgp.pdf>

Évaluations de la menace 2012 - Tableau



aces \ Cibles	Biotope sous marin	Biocénose marine	Balbusard Pêcheur	Grand Dauphin	Poulpe	Mérou	Puffin Cendré	Résumé d classement menaces
utage dans les s peu profondes	Elevé	Elevé	Elevé		Elevé	Moyen		Elevé
e à la mite	Elevé	Elevé	Elevé		Elevé	Moyen		Elevé
e sous marine	Moyen	Elevé	Moyen		Elevé	Moyen		Elevé
e au Sulfate re	Moyen	Moyen	Moyen		Moyen			Moyen
s maillants rants		Moyen		Elevé			Moyen	Moyen
ngement au au des sites de fication			Elevé					Moyen
se aux Grand ohins				Faible				Faible
id Corbeau & n noir			Faible					Faible
c illégal des lons			Moyen					Faible
mé des ements des s	Elevé	Elevé	Elevé	Moyen	Elevé	Moyen	Faible	Elevé

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LOCAL COMMUNITY ACCOMPAGNED NOT ASSISTED

- Indicators should be developed in **multi-stakeholder participatory approach** :
 - Local community , resource managers, scientists and decision-makers
- Indicators should be defined , classified (Type) , designed, implemented, measured assessed with local community
- Indicators must reflect a combined assessment of biologic evolution and community wellbeing
- **Co-management** means that Science should be **at the service of the Local knowledge of the community**