

INTRODUCTION

The sustainable management of Morocco's marine resources led by AGIR, next to their partners, is a clear example of nature-based solution dealing with how nature's capacity can reduce emissions, enhance resilience, and can offer a crucial response to climate change and sustainable development, guaranteeing food security and disaster risk reduction linked to the potential collapse of fisheries as a consequence of the marine ecosystem mismanagement.

NATURE BASED SOLUTION-12	
Name of the project/activity	Sustainable management of Morocco's marine resources
Location	<ul style="list-style-type: none"> - Marine Protected Area for the purposes of fishing (AMP-P for its French initials) of Alboran - Mar Chica Lagoon - Al Hoceima National Park (PNAH) - Parc Souss Massa Agadir
Leading Institution	Association of Integrated Resource Management (AGIR)
Summary	<p>AGIR has transformed the concept of traditional sharing into a new, cumulative Sharing Philosophy, which aims first at sharing stakeholder visions, and development in climate action "adaptation", to increase both the resilience of partners, such as those of the "species and ecosystems" targets, a process that began at the local level, then National and currently regional.</p> <p>Implementation of a broad programme of participatory planning following an ecosystem approach, for the benefit of 3,000 artisanal fishermen operating in the Moroccan Mediterranean and in the aforementioned areas.</p> <ul style="list-style-type: none"> - Measurable and achievable: <p>The projects that AGIR uses are based on a methodology based on Open Standards for Nature Conservation, which produces an Action Plan based on</p> <ol style="list-style-type: none"> 1. a shared vision between all partners 2. Targets well defined by quantified indicators that measure Conservation Goals and the Viability of Ecosystems

and Species, in terms of their Size, Conditions and geographical context

3. Indicators that measure the Objectives in terms of threats in terms of their scope, severity and degree of irreversibility

4. Thus, action plans are based on strategies and actions, which are in line with

a. Measurable objectives in terms of results

b. Concrete actions with specific budgets;

c. Systemically assess, through measurements, relevant indicators concerning the objectives of the results chains obtained, and not only the actions accomplished;

d. Measures of threat reduction evolution

e. Measures of ecosystem and species resilience through the evolution of target enhancement and coastal marine ecosystems

f. Measures of the evolution of the resilience of grassroots communities through the findings of ecosystem services and human well-being improvement

- Co-benefits of sustainable development: Addressing economic and social issues: Initiatives were very inclusive

In the framework of this programme, the fishermen were able to identify a significant number of direct and critical threats that urgently affect target species such as poaching of nestlings and osprey eggs whose population is declining within the ZMPNAH, or other critical and permanent threats such as dynamite and copper sulphate fishing, which irreversibly destroys both marketable and non-marketable marine resources as well as its biotope; coupled with the devastating effect of illegal bottom trawling activity in the shallow areas within the National Park. This project aimed to eliminate direct and critical threats, through the strengthening of control and monitoring of species through the involvement of artisanal fishermen. The creation of a committee to monitor and tackle the aforementioned threats, has allowed them to participate in tackling these themselves in a subsequent stage.

	<p>On the other hand, the strategy also acted in parallel on the main factors that were at the origin of the direct threats, such as the low level of awareness, via awareness campaigns against the fishing of the juveniles; and the implication of the fishermen in the co-management of the marine area of the Al Hoceima National Park through the creation of no take zones.</p> <p>Finally, newly-created cooperatives have had the effect of improving their overall income through a better commercial management of the fishing product without increasing the fishing effort.</p>
Social challenge/s	<p>Food security, by avoiding:</p> <ul style="list-style-type: none"> • Destruction of the marine biotope • Decline of the local osprey population • Decline of the demersal stock <p>Disaster Risk Reduction (due to fisheries near to collapse)</p>
Ecosystem Type	Sea, estuary, seagrass beds, cliffs
NbS concepts	<p>Ecosystem-based adaptation</p> <p>Ecosystem-based management</p>
Scale (local, national, etc.)	Local , National
Institutions involved /stakeholders	Association de Gestion Intégrée des Ressources (AGIR)
Objectives	Protection of resources included in 3 Marine Protected Areas, equivalent to a marine surface area of 100,000 ha.
Impacts	<p>After the project: Responsible fishing has emerged within the protected marine area of Al Hoceima National Park (ZMPNAH) and this is thanks to:</p> <ul style="list-style-type: none"> • The eradication of copper sulphate and dynamite fishing. • A significant reduction in the disturbance of osprey nests and the doubling of the number of Osprey chicks leaving the nest. • The eradication of illegal trawling inside the ZMPNAH. The awareness campaigns used against the fishing of juveniles have contributed towards the establishment of a law in 2013/2014, obliging trawlers to fit devices with Vessel Monitoring Systems (VMS) geolocation. • An increase in the abundance of marine resources, estimated at 20 to 30% depending on the species and ecosystems: local and national stakeholders have been involved in the restoration of the biotopes and species

	<ul style="list-style-type: none"> • A 30% poverty reduction for approximately 1,200 artisanal fishermen. • Assurance of the project's financial viability, through participatory planning and the use of a sustainable marketing strategy for fish products emanating from the project's area of application • Inspired by the AGIR projects, the Rotary Funds to support the conservation and transformation in terms of reconversion of IUU fishing gear into sustainable, artisanal and biodegradable fishing gear and manufactured by women inspired by AGIR have been extended throughout the Mediterranean, the MAVA Foundation will thus finance the replication of the NBS de AGIR in the Mediterranean
<p>Information</p>	<p>https://agirmed.files.wordpress.com/2018/10/rapport-scientifique-zmpnah-sgp.pdf</p> <p>Blue Solution Template in French: 'Sustainable management of marine resources of Morocco' PDF 537.62 KB</p> <p>Good Practice Handbook for Mediterranean Fisheries-MPAs (in French) June 2015 PDF 6.14 MB</p> <p>Nibani. Report of the Systemic and Prospective Sustainability Analysis, June 2010 PDF 4.33 MB</p> <p>Final Report of the AGIR Project - June 2013 PDF 3.29 MB</p> <p>Final report of the thematic activity Sensibilisation and participation“ of the AGIR Project PDF 4.14 MB</p>