

IPSI Case Study Summary Sheet

Basic Information

Title of case study <i>(should be concise and within approximately 25 words)</i>			
Sustainable fishing practices and a unique fishermen's community in the Orbetello Lagoon, Italy			
Submitting IPSI member organization(s)			
Associazione Grani Antichi (Ancient Grains Association) Montespertoli			
Other contributing organization(s) <i>(IPSI members and/or non-members)</i>			
Author(s) and affiliation(s)			
Guido Gualandi and Rebecca Gualandi, Associazione Grani Antichi			
Format of case study <i>(manuscript or audiovisual)</i>	Manuscript	Language	English
Keywords <i>(3-5 key concepts included in the case study)</i>			
Lagoon; Fishing; Orbetello; Lavoriero; Mediterranean			
Date of submission <i>(or update, if this is an update of an existing case study)</i>	19 February 2018		
Web link <i>(of the case study or lead organization if available for more information)</i>			

Geographical Information

Country <i>(where site(s) or activities described in the case study are located – can be multiple, or even “global”)</i>									
Italy									
Location(s) <i>(within the country or countries – leave blank if specific location(s) cannot be identified)</i>									
Tuscany									
Longitude/latitude or Google Maps link <i>(if location is identified)</i>									
https://www.google.com/maps/@42.4375261,11.1765734,12z									
Ecosystem(s) <i>(please place an “x” in all appropriate boxes)</i>									
Forest		Grassland		Agricultural		In-land water	x	Coastal	x
Dryland		Mountain		Urban/peri-urban		Other <i>(Please specify)</i>			
Socioeconomic and environmental characteristics of the area <i>(within 50 words)</i>									
Situated in Central Italy, in Southern Tuscany, the lagoon of Orbetello is a unique ecosystem connected to the sea. It covers an area of 27 square kilometres and is both a reproduction site for several fish and an economic resource for the local population. This large, mirror-like body of water was once regulated entirely by nature, but is now subject to human pressures making its management increasingly complex.									
Description of human-nature interactions in the area <i>(land-use, traditional resource management practices etc. – within 50 words)</i>									
Traditional fishing techniques employing the lavoriero, martavello and the tramaglio are still used to catch a variety of fish. Sea bass, sea bream, grey mullet, eels, small clams, small fish called calcinelli, mazzancolle (a type of shrimp) and a small kind of crab called femminelle are the most commonly caught species. Over time, these techniques have been modernized, but they have maintained their sustainability.									

Contents

Status (<i>"ongoing" or "completed"</i>)	Ongoing	Period (<i>MM/YY to MM/YY</i>)	n/a
Rationale (<i>why activities or policies described, or information shared in the case study are needed – within 50 words</i>)			
<p>If community members wish to maintain their livelihoods, they need to be proactive toward change and continue to find new solutions. In the past, maintaining the canals and releasing small or sexually mature fish was enough. Prices had always been controlled, but the fish economy was only local for a long time. Now with a global economy, high average selling prices are more difficult to achieve.</p>			
Objectives (<i>goals of activities or policies described, or of producing the case study – within 50 words</i>)			
To provide sustainable fish resources, protect the unique ecosystem, and recover traditional cultural methods.			
Activities and/or practices employed (<i>within 50 words</i>)			
<p>The fishermen introduced a new system of stock management and created alternative revenues, such as transformation of fish and new hospitality activities, to increase lowering margins. Increasing water temperatures demand daily monitoring and adjustments using sea water to diminish temperature, oxygen injections or pumping of asphyxiated water out. Fish stocks have to be maintained artificially by buying young fish as not enough are coming in on their own from the sea anymore.</p>			
Results (<i>within 50 words</i>)			
<p>They have now managed to form a cooperative to join forces and have recovered. This unique system sustains quality production at risk of extinction by protecting unique regions and ecosystems, recovering traditional processing methods and safeguarding native breeds and local plant varieties.</p>			
Lessons learned (<i>factors in success or failure, challenges and opportunities – within 40 words</i>)			
<p>For fishermen, maintaining their livelihoods will be an expensive task: just fishing is not enough and revenues must be maintained by diversifying fishermen's activities (for example adding hospitality) while keeping the core business healthy.</p>			
Key messages (<i>within 40 words</i>)			
<p>As it is impossible for local communities to solve international fishing problems, of which they are the victims, they can only concentrate on local sustainable practices. It is common knowledge that one of the major problems in the world is overfishing. Global warming will present the most difficult challenge.</p>			
Relationship to other IPSI activities (<i>if the case study is related to any other IPSI collaborative activities, case studies, etc.</i>)			
This case study originally appeared in the Satoyama Initiative Thematic Review v. 3.			

Contributions to Global Agendas

CBD Aichi Biodiversity Targets (<https://www.cbd.int/sp/targets/>)

The table below shows based on the self-evaluation by author(s). ● and ■ indicates the “direct” or “indirect” contributions to the CBD’s Aichi Biodiversity Targets respectively to which the work described in this case study contributes to.

Strategic Goal A				Strategic Goal B					
■		●	●		●	●			
Strategic Goal C			Strategic Goal D			Strategic Goal E			
■			●				●	■	

UN Sustainable Development Goals (SDGs) (<https://sustainabledevelopment.un.org/sdgs>)

The table below shows based on the self-evaluation by author(s). ● and ■ indicates the “direct” or “indirect” contributions to the SDGs respectively to which the work described in this case study contributes to.

	■						■	
		●		●	■			