







Regional scheme for the development of marine aquaculture (SRDAM) and access to new farming sites on French Mediterranean coast

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Outline

- Introduction
- What is SRDAM?
- Methodology
- Results
- Discussion and questions

Introduction: programme SUCCESS, WP3, RFI

- Programme EU H2020 SUCCESS (2016-18):
 "Strategic Use of Competitiveness towards Consolidating the Economic Sustainability of the European Seafood Sector"
- WP 3: European fisheries and aquaculture sectors
- Task 3.3a Identification of "room for competitiveness improvement" (RFI) at the primary sector level
- Case Study "Seabass & seabream farming", France
- "Study of SRDAMs as a possible tool to improve access to new sites for marine fish farming on French Mediterranean coast"

Marine fish farming in France: a low development



4920 T in 2016 (source CIPA) seabass, seabream, meager, turbot



Source: Gloria Maris Group

An absence of development over the last 20 years, attributed to:

- > the difficult access to new farming sites in coastal zones,
- ➤ to regulatory constraints,
- ➤ to a lack of social acceptability.

BUT in recent years, public policies in favor of developing aquaculture:

- ➤EU level, Strategic Guidelines for the Sustainable Development of EU Aquaculture, including the priority "improving access to space and water"
- >Member States: Multiannual National Strategic Plans for promotion of sustainable aquaculture
- ➤In France: PNSPDA SRDAM

What is SRDAM?

- SRDAM (Schéma Régional de Développement de l'Aquaculture Marine)
- = Regional schemes for the development of marine aquaculture
- ➤introduced by the French Law on modernisation of agriculture and fisheries (Loi de Modernisation de l'Agriculture et de la Pêche, 27th July 2010)
- ➤ "In order to insure the development of aquaculture in harmony with other coastal activities". (Source: Circulaire DPMA, 2011)
- How ?
 - > Inventory of existing aquaculture sites
 - Inventory of suitable sites for aquaculture

a work piloted by DIRM (Inter-regional Directorate for the Sea), including a wide consultation of stakeholders

- For ?
 - Use by administration during examination of new application for authorization of fish farming
 - (but only a
 - Use by fish farmers looking for sites
 - And future inclusion in marine spatial planning

Thou are expected to allow access to now fish farming sites

The SRDAMs for the 3 Mediterranean administrative regions

- regions
 Provence Alpes Cote d'Azur (PACA),
- Languedoc Roussillon (LR, in Occitania)
- Corsica approved in 2015



Did they allow the creation of new farms?

Objectives of our study:

- to understand the building and the contents of the SRDAMS
- to look at the changes occurred after the publication of SRDAMs in 2015
- to analyze the possible constraints to an extension of marine fish farming allowed by these new tools

Methodology

- Desk work
- 13 interviews (1-2 h)
 - ≥5 in the national administration:
 - ➤ national scale (2),
 - ➤Inter-regional scale (**DIRM Méditerranée**),
 - ➤ Corsica region (2),
 - ➤1 in regional administration: in Corsica
 - > 4 in the fish farming sector:
 - > 2 CEO of the two main marine fish farming companies
 - ➤ national syndicate SFAM
 - ➤ Corsica syndicate of fish farmers
 - ➤ 3 in the research sector: IFREMER (2), Stella Maris University of Corte (Corsica).

A planning process

- starting from the sites proposals by professionals (large use of IFREMER inventory, 1999)
- crossed with physical or environmental criteria (geolocated data) to characterize the main issues:
 - >criteria regarding the issues for fish or shellfish farming:
 - o at sea: depth, wind, swell, water quality, distance to coast, distance to landing point,
 - onshore: distance to coastline, present land uses, underground water resources, maximum altitude, zone with technological risks
 - >criteria regarding the issues of potential conflicts with other users:
 - navigation (all types, including in particular fishing)
 - o air traffic
 - mooring zones
 - > criteria regarding the issues for protection of natural environment:
 - existing protected zones (under various statutes)
 - zones with vulnerable benthic biocenoses (Posidinia meadows, coralligenes, etc)
- → building of data base and GIS (using SI REMCO, IFREMER 2007), mapping
- Selection / exclusion

Method of elaboration: six successive phases

- 1 collection of information and data from the State services (existing sites) and from professionals (proposals for suitable sites),
- 2 elaboration of a project of directory of the existing sites and a project of directory of the suitable sites,
- 3 regional working meetings between State services, professionals or their representatives, regional territorial collectivity,
- 4 consultation of the public services and institutions, of the professionals and of the territorial collectivities at regional and departmental scales,
- 5 consultation with stakeholders (local authorities, public institutions, professionals, civil society); presentation before the Façade Maritime Council; putting at public's disposal,
- 6 adoption of the scheme by the regional prefect.
- + environmental study and presentation / Environmental Authority, for advice

+ bilateral meetings by DIRM

Participation of fish farmers syndicates

Participation of fishermen syndicates

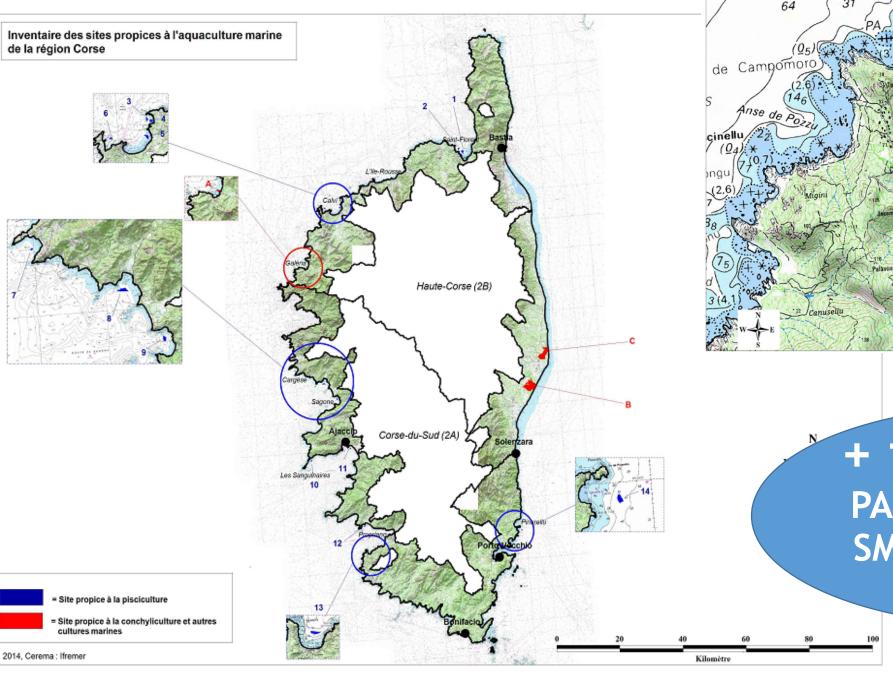
The content the Mediterranean SRDAMs

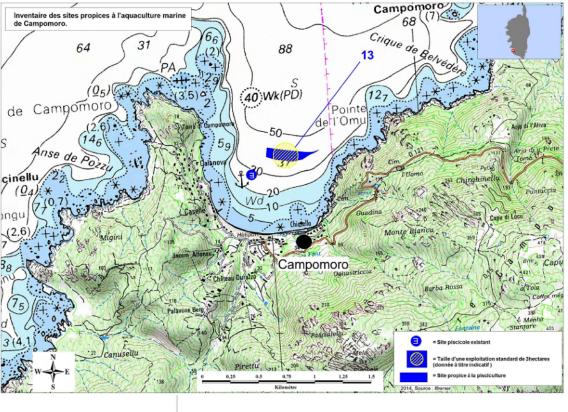
• Existing sites, suitable sites

	Number of existing sites	Number of suitable sites
SRDAM Languedoc-Roussillon (new Region Occitanie)	5	17
SRDAM PACA (Provence, Alpes, Cote d'Azur)	15	10
SRDAM Corse	9	14

- Mediterranean SRDAMs designed also as strategic scheme:
 - devoted to a development of aquaculture keeping the present form of artisanal companies
 - Aiming to double production

Example of SRDAM for Corsica





+ in CORSICA: PADDUC, including SMVM (scheme for the sea)

Other outputs of SRDAMs

- The elaboration of SRDAMs has been a <u>huge work</u>, done with a large <u>concertation</u> in the coastal zone
 - A very important input from the DIRM Méditerranée
 - A very important involvement from the professionals
 - But the SRDAMs preparation took a long time
- The elaboration of SRDAMs has been a first step for setting a methodology for spatial planning in coastal zone, bringing out difficulties
- Criteria: choice/objective
- Data: choice, availability, scale
- Degree of precision: finally, a fine precision is needed

Two years after the publication of SRDAMs: no creation of fish farms.....

Why?

- The main constraint: administrative burden concerning the application files for fish farming authorization
- Other limiting factors?
 - Investments ? Financing ?
 - There are potential investors (but they may go elsewhere)
 - Banks, public supports : sometime slow
 - Market: not either regarded as limiting (< high volumes)
- The tension between "production" and "protection" remains
 - weak social acceptability
 - visible in local opposition
 - but also in difficulties during examination of application files for existing or new farms,

Two years after the publication of SRDAMs: no creation of fish farms... (2)

- A great disappointment among marine fish farmers sector
 - who had put great expectations in SRDAMs
 - For access to sites, but also for improvement of social acceptability
- Some missing aspects in SRDAMs
 - Weak judicial weight
 - No mapping of land-based sites (facilities for storage), while high competition and need

SRDAMs are a first step for MSP

- Marine Spatial Planning: due for 2021 in UE Members States
- In France : Marine Spatial Planning is part of DSF (Document Stratégique de Façade; « strategic document for coastal region »)

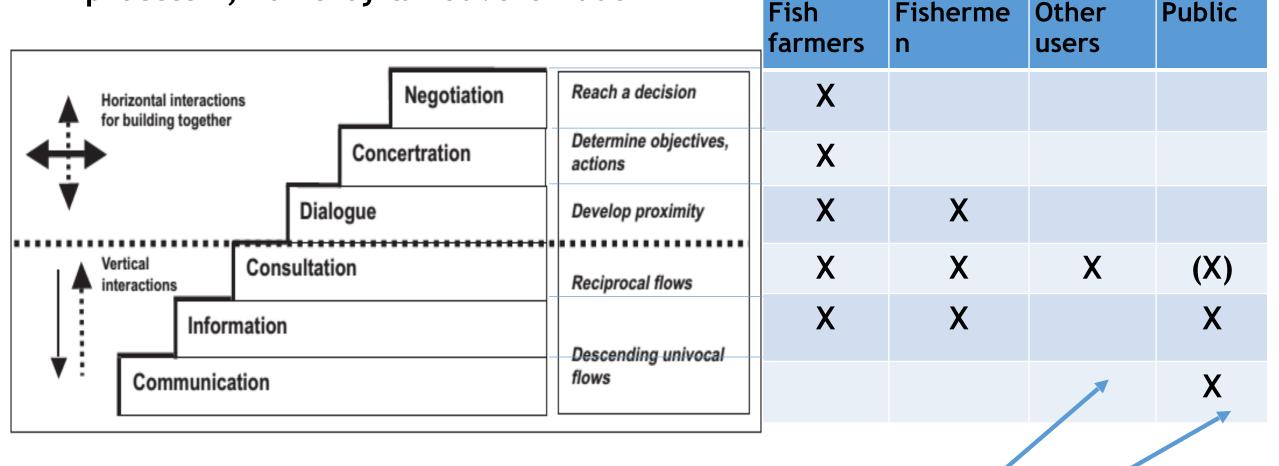
Elaborated by DIRM - under progress

SRDAMs will be included in DSF

For MSP, one important question: what participative approach with stakeholders?

Attempt to characterize the stakeholders participation in Mediterranean SRDAMs, using the « possible types of stakeholders participation in an MSP

process », Pomeroy & Douvere 2008



After: Pomeroy R., Douvere F., 2008 - The engagement of stakeholders in the marine spatial planning process. Marine Policy 32 (2008) 816-822.

Consultation through elected representatives (region, department, municipalities)

Discussion, Questions

- Time for public policies and needs of marine fish farming, a wide gap between
 - Short term needs of marine fish farming sector: simplification of administrative procedures
 - Long term work required by the MSP, both for the process itself and its implementation.
- For mapping aquaculture sites, what inclusion of environmental questions?
 - Inclusion of Impact assessment model; exp: DEPOMOD
 - Inclusion of Carrying capacity model?
- What Stakeholders participation in marine spatial planning?
 - how is organized the participation? Does it allow a real empowerment of stakeholders?
 - Does it allow mutual understanding of activities and issues for each activity/use?
 - Numerous works /concepts /guidelines
 - aquaculture zoning in ecosystem approach (FAO & World Bank, 2015)
 - FAO CGPM Affected Zones for Aquaculture (Resolution GFCM/36/2012/1)

For marine fish farming, what is at stake is social acceptability, linked with "spatial acceptability" and "environmental acceptability"

