

82. OYSTER CULTIVATION CONTINGENCY MEASURES IN ECUADOR

ACTION AREA	CLIMATE RESILIENT DEVELOPMENT PATHWAYS
SOLUTION CLUSTER	CLIMATE ADAPTATION, MITIGATION & RESILIENCE
THEMATIC AREA	SMALL ISLAND STATES AND COASTAL AREAS
SUBMITTED BY	COOPERATIVA DE PESCADORES ARTESANALES "VIRGEN DE REGLA"

WHAT ARE THE KEY THEMES THAT NEED TO BE CONSIDERED TO ADDRESS FOOD INSECURITY AND ENHANCE FOOD SYSTEMS RESILIENCY?

Inclusiveness: Food systems differ based on geography. Therefore, there cannot be a one-size-fits-for all approach because circumstances and production realities differ from continent to continent and region to region. The approach should be based on common ground and inclusiveness, where no one will be left behind. All farmers, including women and young farmers deserve to be empowered and provided with the same resources in terms of i.e. access to land, inputs, finance, education, to maximize their contribution towards more resilient food systems, as well as to prepare the future farmers' leadership.

Transparency: Transparency of information is required at all levels from global to grassroots, as well as in feeding the international discussion with the farm level experiences and best practices that are ready for scaling up and replication in other countries. The flow of information must be timely and effective to allow all actors to make proper decisions and take robust actions for the benefit of the world farmers and the whole population. The digitalization has to be improved as an instrument of knowledge and transparency of the chain and at the same time the property of data has to be considered a priority for farmers. Transparent and trustful relationships between farmers and consumers (the first and final stage of the food value chain, where open traceability is available) must be promoted. The farmers' share of value added in the whole approach must be not only valorised but also restored.

Farmers' driven: Farmers are at the centre of food systems. Therefore, any policy- making process that has an impact on the farming sector at local, national, and international levels should involve them, through their organized structures. Representatives of farmers' organisations and cooperatives must therefore also be partners in the discussion and decisions on sustainable food systems and the 2030 Agenda for sustainable development. This approach applies to decision-making processes and its implementation, monitoring and evaluation actions

Reference: WFO-Policy-Paper-on-Sustainable-Food-Systems_approved-by-the-WFO-2020-GA_EN.pdf (wfo-oma.org)

WHAT DO YOU THINK CONSTITUTES SOCIAL RESILIENCE, ENVIRONMENTAL RESILIENCE AND ECONOMIC RESILIENCE IN FOOD SYSTEMS? WHAT ARE THE CROSS-CUTTING SOLUTIONS BETWEEN ECONOMIC, SOCIAL AND ENVIRONMENTAL RESILIENCE?

Ensuring social, environmental and economic resilience in food systems means recognizing the multidimensional nature of the farming activity replacing the old vision of agriculture as a simple "provider of raw material". Farmers ensure food security providing quality food; they are at the forefront of combating climate change; they preserve and promote biodiversity; they are committed to nurture

farmer-driven research and innovation. This translates into social resilience, environmental resilience and economic resilience in food systems.

Therefore, if we aim to align and lay the foundations for the necessary shift towards Sustainable Food Systems, this role has to be emphasised and mostly valorised, putting farmers at the centre of the transition towards sustainability.

Within the World Farmers' Organisation, awareness of the centrality of agriculture and the responsibility this entails for sustainable food systems is clear and has been formalised with the adoption, in June 2020, of a policy document marking "The Farmers' Route to Sustainable Food Systems" https://www.wfo-oma.org/wp-content/uploads/2020/07/WFO-Policy-Paper-on-Sustainable-Food-Systems_approved-by-the-WFO-2020-GA_EN.pdf

A route based on three guiding principles: inclusiveness, transparency and the centrality of farmers in every strategic process.

WFO proposes to focus future commitments on the following cross-cutting actions, with the central role of farmers in each of these actions:

- Involving the whole value chain
- Fighting climate change
- Structuring disaster risk management
- Attaining global nutrition security
- Enhancing Research and Innovation
- Protecting biodiversity
- Deploying investments and incentives
- Valuing the livestock sector's role
- Achieving food security
- Boosting the role of farmers' organisations and cooperatives
- Promoting inclusiveness: youth and women are key to succeed.

WHAT SOLUTIONS CAN WE PROPOSE TO ADDRESS FOOD INSECURITY AND PREVENT FUTURE SOURCES OF CONFLICT, MANAGE TENSIONS AND OTHER STRESSES IN FOOD SYSTEMS ?

Among the various consequences of climate change, there is the alteration of sea currents, an higher seawater temperature and the increase of predators in the sea leading to the death of many oysters. Additionally, also the pandemic has had a negative impact on farmers' production: it has reduced sales, prevented them from cleaning oyster's cages, and made it difficult for them to sell their products.

In order to cope with the pandemic and to try to mitigate its negative impacts as much as possible, farmers had to carry out the work activities with all the protection measures, but also to carry out the labor activities with less personnel to cover their remunerations in this crisis, as well as, to do cleaning activities to combat predators and maintain future production of oysters for sale. Moreover, several methods were implemented to sell the product through internet with social networks and telephone communication in general.

In a nutshell, these were the best practices

- Maintenance of activities with fewer resources: mainly cleaning of cages to lower the chance of attack from predators.
- Several work methods to maintain & preserve the production that will be kept after the pandemic.
- Diversification of sales channels.

It united them as workers, making them more supportive and it strengthened their social relations. The pandemic helped farmers realize that together they can overcome their needs & survive such a difficult situation.

WHAT IS THE POTENTIAL ACTION THAT COULD BE TAKEN?

Collaboration between workers and retail innovation as a form of resilience to climate change and the pandemic.

WHO ARE THE MAIN ACTORS THAT WOULD PUT THIS ACTION INTO PLACE?

Farmers, Farmers' Organization/Cooperatives

WHERE ARE MAIN AREAS IN WHICH THIS SOLUTION WOULD MAKE CHANGES

- Food supply chains - Inputs
- Food supply chains - Production
- Food supply chains - Storage & Distribution
- Food environments - availability
- Food environments - Retail & Marketing

WITHIN WHICH CATEGORY DOES THIS INTERVENTION MOST EASILY FALL?

Supply Chain Infrastructure; Cross-Cutting

IS THIS IDEA APPLICABLE TO A PARTICULAR GEOGRAPHY OR TYPE OF SETTING (E.G., SEMI-ARID AREAS, HIGHER- OR LOWER-INCOME COUNTRIES)?

Artesanales «Virgen de Regla» with the potential to be replicated in other contexts.

WHERE IS THIS IDEA COMING FROM?

The best practice was first shared in the context of the initiative "The Climakers", the Farmers Driven Climate Change Agenda conceived by the World Farmers' Organisation and carried out with different partners, with the aim to be assessed by science against climate smartness criteria & be scaled up and replicated in other Countries.

Reference: <https://www.theclimakers.org/wp/wp-content/uploads/2019/12/The-Climakers-Stories-from-the-Field-Volume-1.pdf>

ANY OTHER COMMENTS, INCLUDING EVIDENCE OR ARGUMENTS IN SUPPORT OR AGAINST.

The best practice was assessed against Climate smartness criteria by CCAFS, with the following results: "The major challenge is the increase of oyster predators, which is due to climate change. In addition to promoting climate adaptation, the initiative has supported producers to access new markets, thus improving their incomes. The Cooperativa de Pescadores Artesanales «Virgen de Regla» initiative includes a set of practices that contributes to Climate-Smart Agriculture (CSA) main objectives of adaptation and productivity through income increase."