

RISK-BASED ZONING AND SITING FOR MARINE AQUACULTURE

OBJECTIVE

Ensure the most equitable use of the marine space for this activity.

DESCRIPTION

Risk-based zoning and site selection is needed in areas where aquaculture is planned or already developed and its relocation is constrained by environmental issues and conflicts with other uses. Specifically, the zoning step aims to identify broad areas potentially suitable for aquaculture, also referred to as Allocated Zones for Aquaculture (AZA), in order to ensure integration of aquaculture into areas already exploited by other uses. Zoning should include a complete risk analysis identifying main threats to a successful production. Climate-related risks need to be taken into account as well to ensure success in the aquaculture business, considering that the sector is vulnerable to a number of potentially catastrophic climate disturbances.

EXPECTED RESULTS

Minimizing possible economic losses.

RESULT INDICATORS

Number of marine products

INVOLVED ACTORS

Producers, local communities and/or businesses reliant on aquaculture and fisheries value chains, consumer associations, environmental NGOs, research institutions, other users of the concerned water body (e.g. marinas, ports, windfarms and recreational uses).

EXPECTED TIMELINE FOR ACTION

- Short term (1-4 years)

BEST PRACTICES

- Friuli Venezia Giulia Autonomous Region – Italy
- Friuli Venezia Giulia Autonomous Region – Italy

CRITICALITIES

Climate-related risk could severely cause threats and disasters (e.g. loss of production or infrastructure due to extreme events, diseases, toxic algae and parasites).

SCOPE OF THE ACTION

- Adaptation

TYPE OF PROPOSED ACTIONS

- Soft

SECTOR OF ACTION

- Aquaculture / Fishing
- Biodiversity / Conservation of ecosystems

CLIMATE IMPACTS

- Change or loss of biodiversity
- Extreme temperatures
- Other

IMPLEMENTATION SCALE

- Municipality
- Region / Country

SOURCE

<https://climate-adapt.eea.europa.eu/metadata/adaptation-options/risk-based-zoning-and-siting-for-marine-aquaculture>