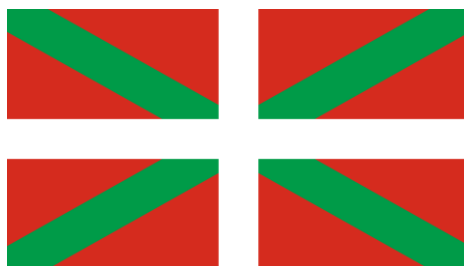


# QUESTIONNAIRE

## Harmful Algal Bloom and Microbial Contamination Information (Basque)



This short questionnaire aims to gather opinions from shellfish and fin-fish producers to help develop and tailor a Harmful Algal Blooms (HABs) and microbial contamination bulletin to their needs.

Currently, there is no public website or bulletin in the Basque region. The PRIMROSE project hopes to develop a forecast bulletin for both HABs and microbial contamination events that will be accessible to the public. This is will be developed by Fundación AZTI/AZTI Fundazioa (<http://www.azti.es/>).

**1. Currently, if you receive an indication that a Harmful Algal Bloom (HAB) or microbial contamination event is imminent in the area where your stock animals are kept, do you have any strategies/protocols in place to mitigate stock damage/financial losses?**

Yes

No

If **YES**, what strategies/protocols do you use, and are there any problems associated with them?

**2. Once a harmful event has arrived where your stock animals are kept, do you have any strategies/protocols in place to mitigate damage/losses?**

Yes

No

If **YES**, what strategies/protocols do you use, and are there any problems associated with them?

**3. To help develop a public website or bulletin providing forecasting information on HABs/microbial contamination events, please tick what information you would like it to provide. Please tick all applicable**

- Current conditions
- Water movements
- Phytoplankton general observations
- Prediction of temperature, salinity and density
- Satellite-derived sea surface temperature
- Satellite-derived chlorophyll images
- Historical trends
- Other; please specify below:

**4. What is the minimum timeframe for a short-term forecast to be useful to you?**

- Forecast available 72 hours in advance
- Forecast available 1 week in advance
- Forecast available 2 weeks in advance
- Other; please specify \_\_\_\_\_

**5. Would a long-term (seasonal/monthly) projection be of help to you?**

- Yes
- No

If **YES**, how would such a report affect any decisions you have to make?

**6. How frequently should the HAB/microbial contamination forecasting website/bulletin ideally be updated?**

- Daily
- Weekly
- Fortnightly
- Monthly
- Other; please specify \_\_\_\_\_

**7. How often do you think you would consult the website/bulletin?**

- Daily
- Weekly
- Fortnightly
- Monthly
- Other; please specify \_\_\_\_\_

**8. Would you use the information on the website/bulletin to make decisions?**

- Yes
- No

If **YES**, what kind of decisions?

**9. Overall, how important would a HAB/microbial contamination forecasting system be to you?**

- Crucial       Very important       Slightly important
- Not important       Indifferent

**10. What would encourage you to consult a potential HAB/microbial contamination forecast bulletin more often? Please tick any that are applicable:**

- Simplification of website bulletin
- Availability of a mobile app
- Automated alert system e.g. alert message sent directly to your mobile phone
- Other; please specify \_\_\_\_\_

**11. Please provide any suggestions for the development of a potential forecasting system:**

## YOUR INFORMATION

### 1. What is your main business activity? Please tick all applicable:

- Fin-fish producer (seabass)
- Fin-fish producer (seabream)
- Fin-fish producer (other; please specify \_\_\_\_\_)
- Shellfish producer (abalone)
- Shellfish producer (mussels)
- Shellfish producer (oyster)
- Shellfish producer (scallops)
- Shellfish producer (hatchery)
- Shellfish producer (other; please specify \_\_\_\_\_)
- Seaweed producer
- Fin-fish processors
- Shellfish processors
- Aquaculture and seafood agency
- Seafood exporter
- Private research institute
- Public research institute
- University
- Other; please specify \_\_\_\_\_

### 2. Please provide the location of where most of your business activity takes place: