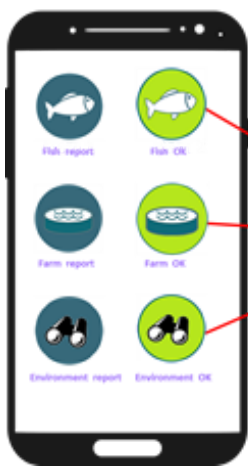


The monitoring system developed in the IMPAQT project is making use of different technologies (in situ sensors, remote observations from satellite,...) to report on the status of the environment in and around farms as well as on the status of productivity and farmed biomass.

In addition to the large panel of sensing technologies used by the system, an innovation has been brought to the system by adding a **smartphone application** which is used by operators to add **“observations”** that could not be easily reported by a classical sensor (e.g.: abnormal fish behaviour, presence of predators around cages etc...). The observation is **automatically located and time-stamped**, and is directly sent to the IMPAQT system which uses it as any other measurement as **support for decision-making**.

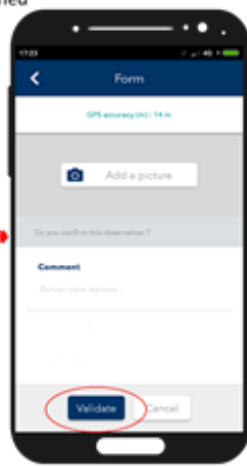


## Level 1



**Global validation**  
Click on green icons to validate all the attached items

## Validation



optional action, photo is not required

Optional comment (field can be empty)

## Report in 3 steps

The smart application is very simple to use by any operators working on the fish cages or visiting the farming facilities. It consists in a **hierarchical (with max 3 steps) collect of information** (by example: “predator yes/no” – if yes then “predator dolphins or jellyfish or ...”, and then a possibility to take and record a picture – see illustration on the left).

## Level 1

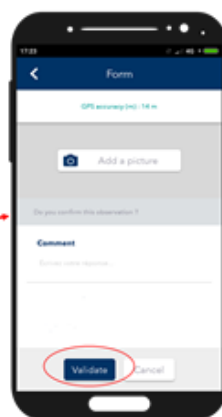


**Specific validation for fish report**  
• Click on one icon per line  
• Default: no comment

## Level 2



## Validation



This application has been deployed on all IMPAQT pilot sites and is **available in 10 different languages**. It has been well appreciated by the site managers and proven to be an innovative, valuable tool to report observation in addition to other measurements.