



Expert Group on Fisheries Control

Workshop on Digital Tools for Small
Scale Fisheries

Brussels, 4-5 December 2018



Session 1: Monitoring of Small Scale Fleet- Conclusions:

- *Several technologies solutions/tools to apply for SSF fleet are available*
- *Installation, maintenance and communication costs seem to be affordable*
- *Monitoring requirements vary case by case (or of vessels and extension of the area); targeted approach needed (cost-benefit assessment)*

Session 1: Monitoring of Small Scale Fleet- Conclusions:

- *Several positive aspects such as increased food safety and traceability, better data for stock assessments, better control and surveillance of fisheries (ex. Black Box), improve of work conditions and control of fishing areas*
- *Need to implement the power supply onboard in small vessels and to be independent of vessel power (such as solar panels)*
- *Data integration from multiple device types need to be developed*
- *Large amount of additional available data: how to manage it? (artificial intelligence)*

Session 2: Digital catch reporting tools for SSF

- *Future is clear – towards FDF - electronic/digital in (AI, intelligent algorithms, machine Learning) paper out:*
 - but how are we going to get there, and through what process?
 - how do we structure the future, when technological advance is outpacing us?
- *Change is not just about new systems, new requirements, new costs, but about cultural change – trust/ cooperation vs men n women replaced by machines*
- *Plethora of experiences/ possibilities web, apps, sms, drones, VMS, but key questions on:*
 - What kind of details on catch reporting (species, volume, MCRS, grounds, gear)?
 - When – at sea, in port, in real time, within 24 hrs?
 - Training, capacity building/Helpdesk support
 - Who pays? Installation costs/ running costs
- *Trade offs: Sea safety vs control; quality vs quantity; burden of work on fishers vs ease of use: need to factor in working conditions and working practices at sea:*
 - The margin of tolerance was mentioned and the need to consider it.

Session 2: Digital catch reporting tools for SSF

- *Multi-functionality – generate information for multi-use: control; fish/quota management, science, fishers, traceability etc;*
- *Must add value for fishers (finance, direct marketing, business management/planning, empowerment);*
- *What is SSF? Need for different categories of SSF/ diff requirements:*
 - Length of vessel (>10 metres; <12 metres; <10 metres)
 - With/ without deck/ wheel house
 - No of crew
- *System failures: loss of fishing time/ income during critical seasons*
- *Voluntary approach vs strict approach*
- *Cross checking: passive information gathering (vms) with active input (log book)*

Session 3: EU Support for digital tools for monitoring & control

- *Numerous funding possibilities under EMFF (control and enforcement but also CLLD, data collection, etc.)*
- *No more than 6 in sample of 12 MS (16 projects) appear to have taken advantage of EU support*
- *Various projects developed as, or evolved from commercial ventures, or as collective organisation projects*
- *Others developed on short notice or as pilot projects, both to respond to fairly specific needs*

Session 3: EU Support for digital tools for monitoring & control

- *Possible explanations: Lack of knowledge of EU support options, lack of time, administrative burden, lack of seed resources ...*
- *Share information, good practices, existing solutions between control services*
- *Improve communication/cooperation between services, providers &/or stakeholders*
- *Integrate on-going operations into larger scale projects*
- *Take greater advantage of benefits resulting from greater data availability*

THE END

Combining more data to the graph - provides a better understanding of the fishing activity



Vessel Monitoring System
11- Trial of Vessel Monitoring Systems managing fishery



E-Lite, personal registration



What is a Black Box



Baltic Sea Cod Quotas 2018, closure period February/ March
Legal basis: Footnote in TAC Regulation for vessels Exemption for vessels below 12m fishing not deeper than 20m
„Electronic monitoring System certified by the Control Authority“

APLICACIÓN ANDROID & iOS.



ibutton login
Slot for labels
Simplified Instructions

Croatian UAV system in fisheries inspection

In 2015, the Realization of Technical specification based on study of Ministry of defense

The system includes: drones (electric engine), 3 pick-ups (4x4), 2 Ground Control Stations (GCS), flight simulator, antennas and repetitors, 2 launchers, spare parts, tools for repair and maintenance...

Digital reporting: Fishing vessel to database via mobile phone network

MMS unit and gear sensors on fishing vessel

- GPS data
 - Location
 - Speed
 - Course/Bearing
 - Gear activity
 - Catch report
 - High frequency

User interface via licenced login

Database

Envío de datos desde un dispositivo Android o iOS

- Control de desembarques entre fechas
- Seguimiento de especies de especial interés
- Consulta de especies según Fishbase (FAO)

4. GREEN BOXES

m-Logbook

MINISTRY OF AGRICULTURE, CROATIA
Directorate of Fisheries

THANK YOU!