

BlueTraker[®]

Specifics and solutions for small-scale fisheries Monitoring, Control and Surveillance (MCS)

First Regional Symposium on Sustainable Small-Scale
Fisheries in the Mediterranean and Black Sea

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BlueTraker[®]

PRIMARK TELEMATICS & BlueTraker VMS



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expert*

The logo for BlueTraker, featuring the brand name in a white sans-serif font with a registered trademark symbol, set against a dark blue background with a white wave graphic below it.

What to monitor in small-scale fisheries?

- Fishing licenses
- Marine Protected Areas (MPA's)
- Use of legal fishing gear
- Catch reporting
- Fishermen safety at sea

Nenad Hercigonja, VMS technology expert

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Challenges in small-scale fisheries MCS

- Type & cost of MCS terminal
- Type & cost of communication
- MCS terminal power supply
- Anti-tampering
- MCS efficiency – large number of vessels

Nenad Hercigonja, VMS technology expert

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Hybrid communication

- Combines global coverage with cheaper coastal telecommunication technologies
- Integral devices – simplified installation and anti-tamper protection

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Catch report transmission

- Expanding mandatory VMS device with additional control functionality
- Advanced systems record and transmit each fishing action and catch in real time: inspection checks compare reported with real situation at any time

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Real-time MPA protection

- Marine protected areas (MPA) are difficult to control
- Conventional VMS systems enable short undetected intrusions into MPAs
- New technologies instantly alert entrance into MPA

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Subsidized fuel usage control

- Some governments subsidize part of fuel price to fishermen
- Control of intended usage was difficult
- New technologies enable precise control if this fuel is used for fishing

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Net authentication

- Controls the usage of allowed nets and other tools
- Combines the net information with time and place of use
- Each tool is marked by fishery authority with unique robust authentication tag

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Anti-tamper measures

- VMS device tampering typically includes disconnection of VMS transmitter from power, sending false position reports and other
- New anti-tampering measures provide deterrence to tampering as well as evidence of tampering

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Private distress button

- Expand mandatory VMS device with life-saving functionality
- Predefined messages, globally deliverable
- Plus Assistance messages: engine failure, medical condition, etc.



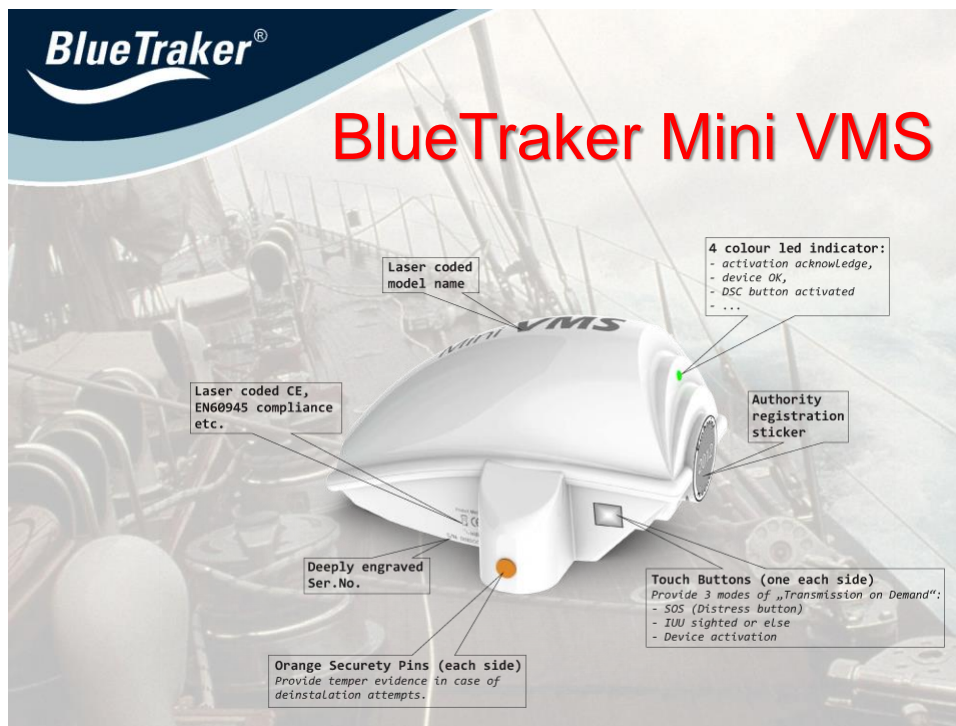
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BlueTraker Mini VMS

Example of small-scale fisheries monitoring terminal





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CONCLUSION

- MCS of small-scale fisheries is associated with specific challenges
- New technologies enable effective and efficient MCS of small-scale fisheries

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Thanks!

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