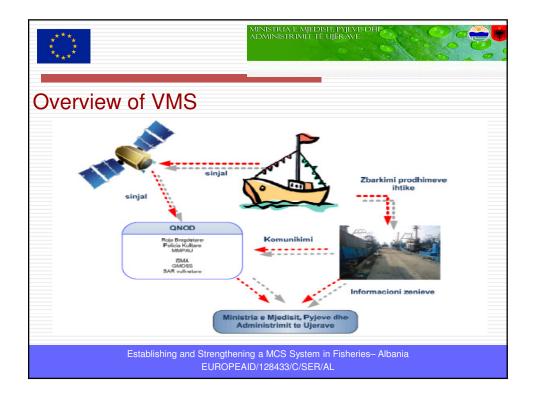


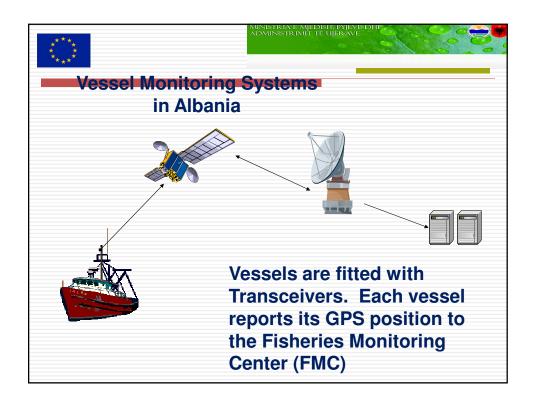


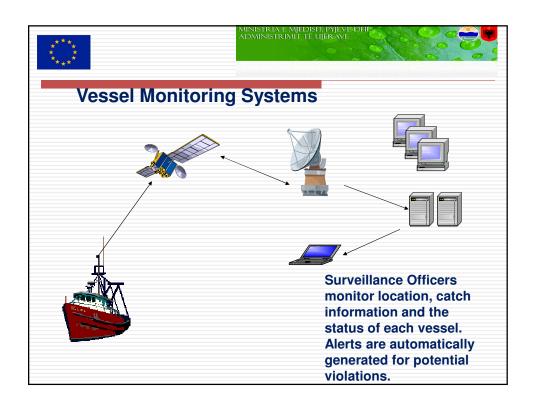
•The objective of VMS is to prove an offence in court.

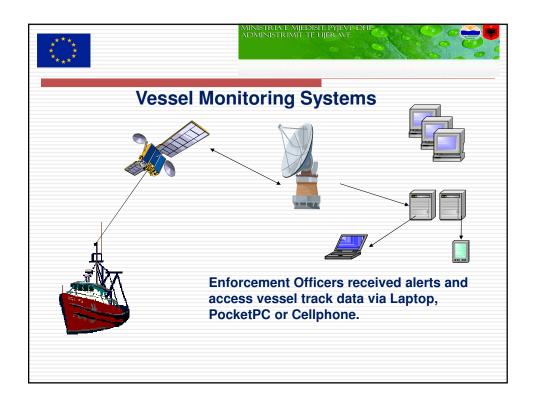
•Every investigation should be treated as though it will be contested in court.

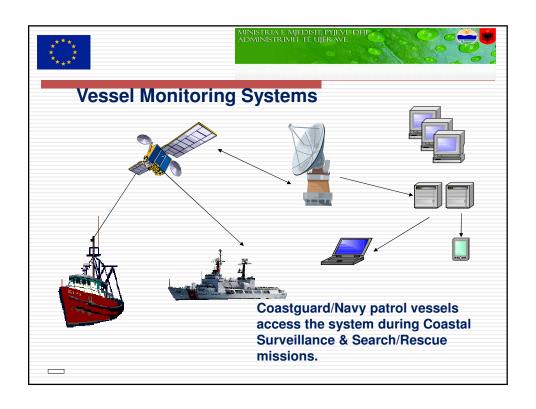


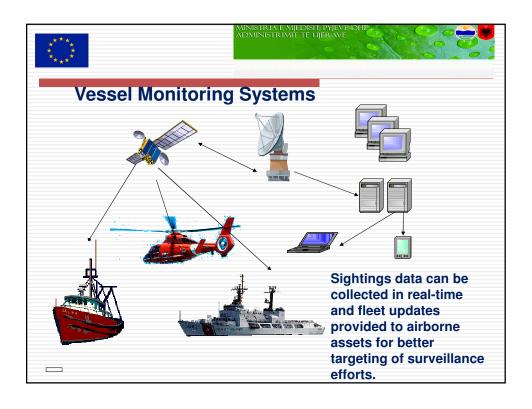
















### ADMINISTRIMIT TË UJËRAVE

# Fisheries Monitoring Center Selection of an appropriate system (Hardware and Software)

- -Fulfils the management principals of the fishery or fisheries
- -Will fulfil the future needs (scale up in size or in capability such as E-logs, observer, Quota or Remote Query)
- •Provides appropriate level of security, accuracy, functionality and redundancy to satisfy legal, operational and environmental situation.

Establishing and Strengthening a MCS System in Fisheries– Albania EUROPEAID/128433/C/SER/AL



#### MINISTRIA E MJEDISIT, PYJEVE DHE ADMINISTRIMIT TË UJËRAVE

# System Logic

- National
- 220+ Vessels
- -24 positions/day average (1 hour, 30 mins, 15 mins)
- -6,480/day, 200,880/month, 2,410,560/year



ADMINISTRIMIT TË UJËRAVE

# **FMC System Logic**

- The Systems is designed to save time and money.
- •Should distil raw information into easily prioritised investigations (Primary Evidence, Supplementary evidence, unusual behaviour that requires further investigation).
- •Should feed into a statistical model which could include system information (ideally).

Establishing and Strengthening a MCS System in Fisheries- Albania EUROPEAID/128433/C/SER/AL



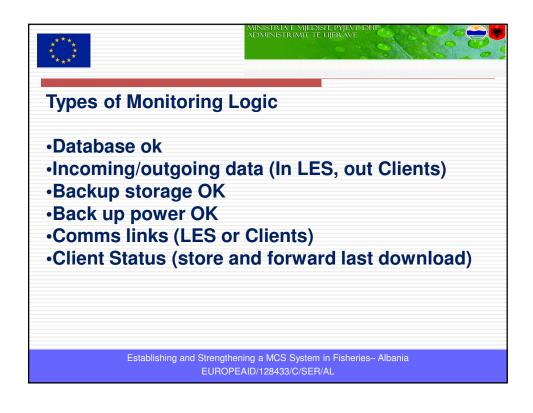
MINISTRIA E MJEDISIT, PYJEVE ADMINISTRIMIT TË UJËRAVE

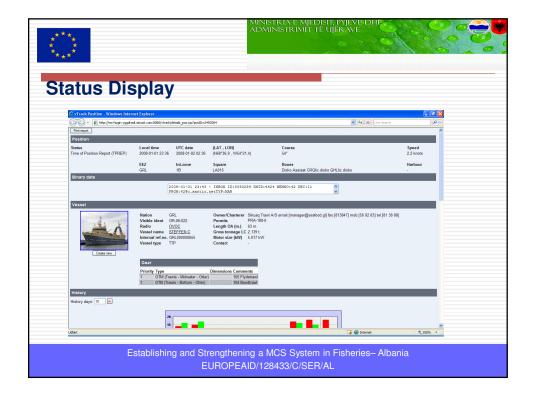
# Types of tracking Logic Stand alone Parameters

- -Polygon (enter/leave or inside/outside polygon)
- -Terminal (Antenna, on/off)
- -Speed (Exceed Maximum, below minimum)
- –Area (moved more than x metres)

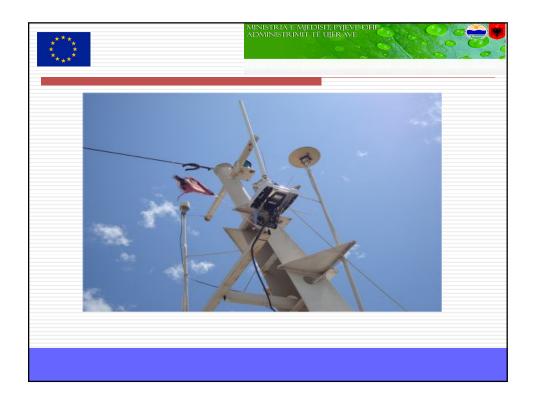
#### Combination

- -inside polygon and speed below 5 knots (could be fishing in area closed to fishing but not transiting)
- -Add time -inside polygon and speed below 5 knots and time between 6pm and 6am (could be fishing in area closed to fishing at night but not transiting)











# Legislation

- •Must recognize all parts of the system
- -GPS (accuracy)
- -Commssystem
- -Define boundaries accurately (no loops)
- -Vessel data
- Evidentiary provisions
- -Defines requirements for admissibility

Establishing and Strengthening a MCS System in Fisheries– Albania EUROPEAID/128433/C/SER/AL



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# Evidence

### **Certified document**

- -Map
- -Tabulated data
- -System Heath
- Mapping standards
- -Scale
- -Origin, Author Date
- -Legend
- -Clear labelling
- Presented and explained by the author



MINISTRIA E MJEDISIT, PYJEVE DHE ADMINISTRIMIT TË UJËRAVE

# The VMS Officer

# Part Technician

- -The System
- -The Technology (GPS & Comms)
- -The Terminal (ALC, MTU, etc)

## Part Investigator

- -Examine the data
- -Find irregularities
- -Link the data to the offence

#### Part Prosecutor

- Assist the prosecution to understand the technology, the offence and the case
- -Appear as witness and explain the technology and investigation to the court

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#### The Technician

- •System is maintained to protect the evidentiary value of the data.
- •Will explain the system to the court.
- •Must provide the court with information that ensures the accuracy and validly of the data.





## The Investigator

- •Compiles evidence to supplement and enhance the VMS data;
  - -Vessels plotter
  - -Logs or records
  - -Other vessels observations or records
- •Directs other investigators to gather this evidence.
- Sometimes investigations not fisheries/marine.

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#### The Prosecutor

- •Is the connection between the technology and the legislation.
- •Is crucial to evaluate the strength of the case in relation to the VMS data (Probability).
- •Cross examination!!!
- •May need to withdraw the case to protect the system.



#### MINISTRIA E MJEDISIT, PYJEVE DHE ADMINISTRIMIT TË UJËRAVE

#### The VMS Officer

- •Without the VMS Officer the system cannot carryout its function.
- •The VMS Officer is a crucial part of the investigation and the prosecution.
- •An untrained VMS Officer is a danger to prosecutions and the system.
- •VMS Systems are worth thousands and sometimes millions and can be rendered useless if VMS Officer is not adequately trained.

