

# Implementation of a Vessel Monitoring System pilot project in Lebanon

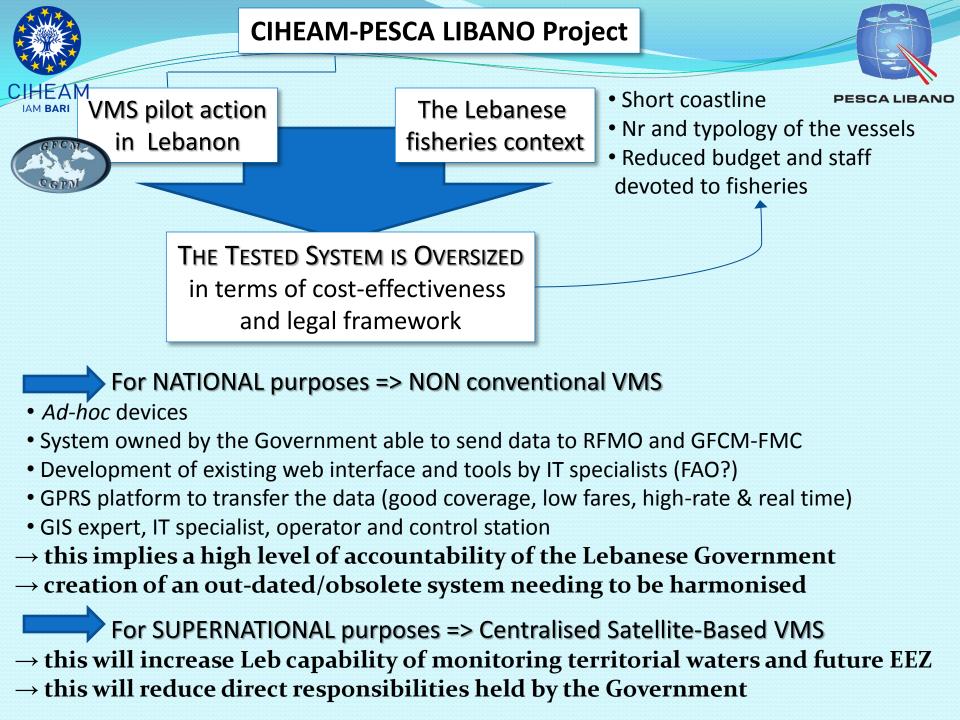
Tunis – October 1, 2013



"Technical Assistance to the Ministry of Agriculture in the field of fishery development"



PESCA LIBANO Project – CIHEAM IAM BARI



# **CIHEAM-PESCA LIBANO Project**



Cooperazione Italiana allo Sviluppo Ministero Affari Esteri

# CIHFAM AM BARI







# **GENERAL OBJECTIVE**

To contribute to the strengthening of the Ministry of Agriculture in implementing policies that could bring economical and social benefits to the fishery sector

# **SPECIFIC OBJECTIVE**

Supporting and strengthening the Ministry of Agriculture in the management of marine fisheries toward the activation and development of the potentialities of Lebanon's marine coastal resources

# **FINAL BENEFICIARY**

Ministry of Agriculture of the Republic of Lebanon



# **CIHEAM-PESCA LIBANO Project**



# **EXPECTED RESULTS**

- 1. FULL DIGITALIZATION OF ON LAND MARINE FISHERY FACILITIES FOR SOCIO-ECONOMIC EXPLOITATION AND DEVELOPMENT
- 2. MARINE RESOURCES MAPPED, IDENTIFIED AND BETTER EXPLOITED
- 3. INSTITUTIONAL BUILDING
- 4. VISIBILITY AND PROMOTION



Task 1.5 - A feasibility analysis and a pilot study on the use of VMS system to be developed on few vessels to be carried out in cooperation with GFCM



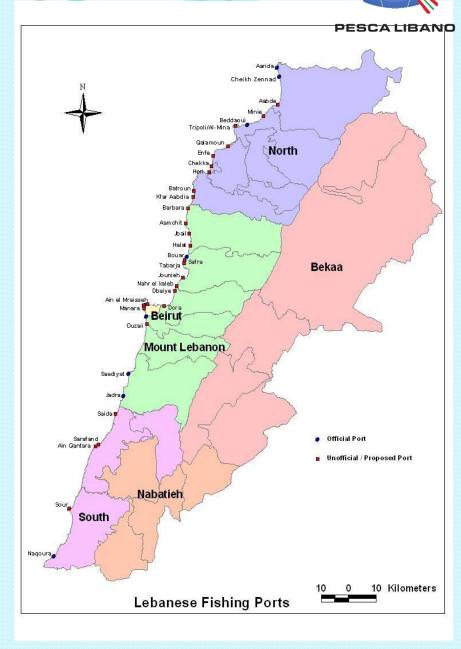
### **LEBANESE CONTEXT**

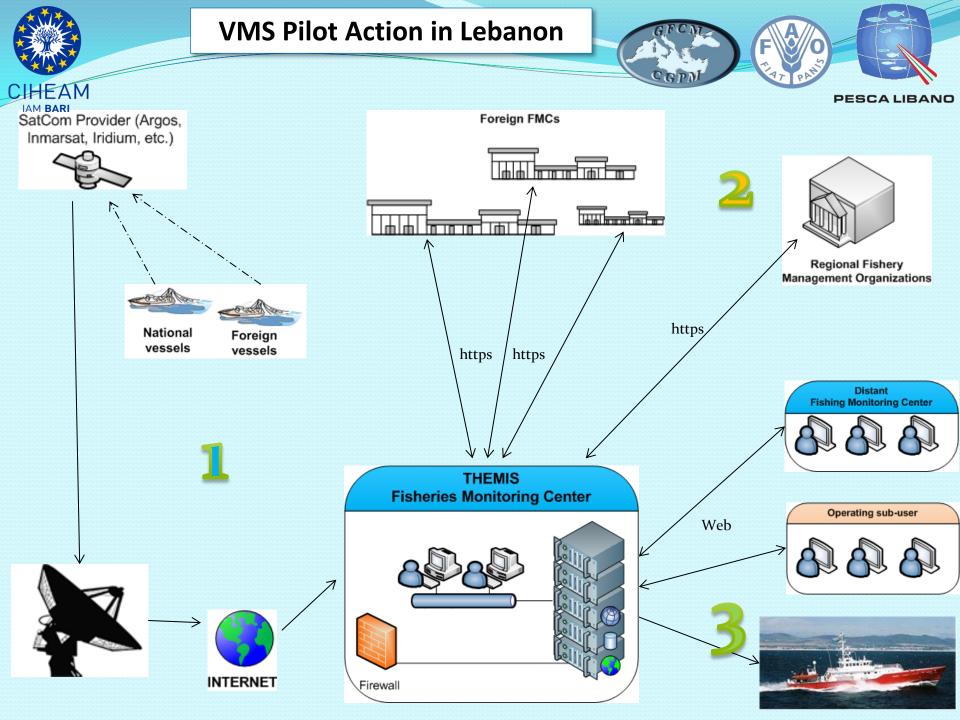
#### CIHEAM

✓ 44 ports and landing sites
✓ Small scale artisanal wooden vessels
✓ Majority with length less than 12 m
✓ In 2004, 2.836 registered fishing vessels

 ✓ Fishing techniques are mostly based on passive gears such as gillnets, trammel nets, longlines, purse seines
✓ Few vessels have a Global Positioning System (GPS), while the rest have very limited navigational or safety equipment

 ✓ The fleet is built almost exclusively for small scale and inshore activities
✓ The marine capture fisheries production in the last 10 years is around 3,500 tons/year









# **VMS Pilot Action in Lebanon**



Pictogram (Operational Instructions)

#### How the transmitter works

#### I / TO TURN IT ON

Push the ON/OFF button for 5 seconds to start the transmitter. A GREEN flashing light will indicate the unit is working correctly. This will flash every 10 seconds in normal conditions.



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#### 2/ TO SEND A REQUEST FOR ASSISTANCE

In case of an emergency, lift the protective cover and push the ASSISTANCE button for at least 2 seconds. A RED flashing light every 10 seconds indicates the unit is transmitting the request for assistance.

Caution: Rescue operations may be organised as soon as an assistance message is sent.



#### **3**/ TO CANCEL THE REQUEST FOR ASSISTANCE

Push the ASSISTANCE button for 2 seconds. Once the unit has registered the cancellation, the GREEN light will flash for confirmation.

#### 4/ TO RECHARGE THE BATTERY

When the ORANGE light flashes, the transmitter doesn't function in nominal mode, it is time to recharge the battery. With the low battery, the assistance mode still functions operationally for 5 days.

Open the base cap with the yellow opening key provided.

Plug in the charger.

Wait for 6 hours before stopping the charge. The charger's GREEN light flashes to confirm the charging cycle is finished.

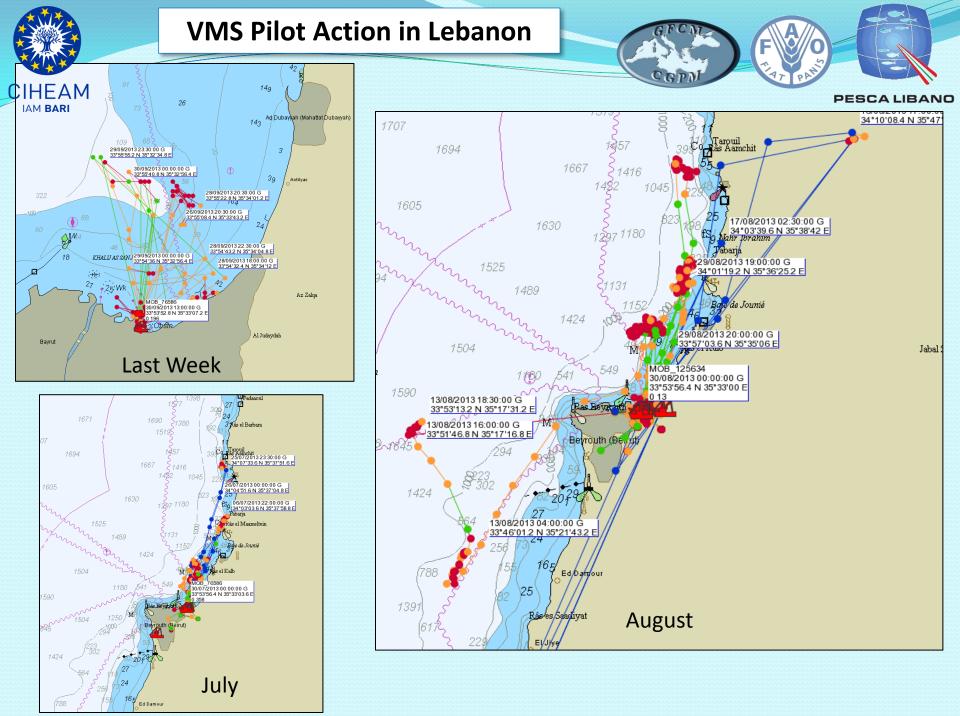
5/TO TURN IT OFF Push the ON/OFF button for 3 seconds then release it to stop the transmitter. The light will stop flashing.





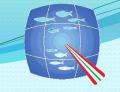








## **VMS Pilot Action in Lebanon**



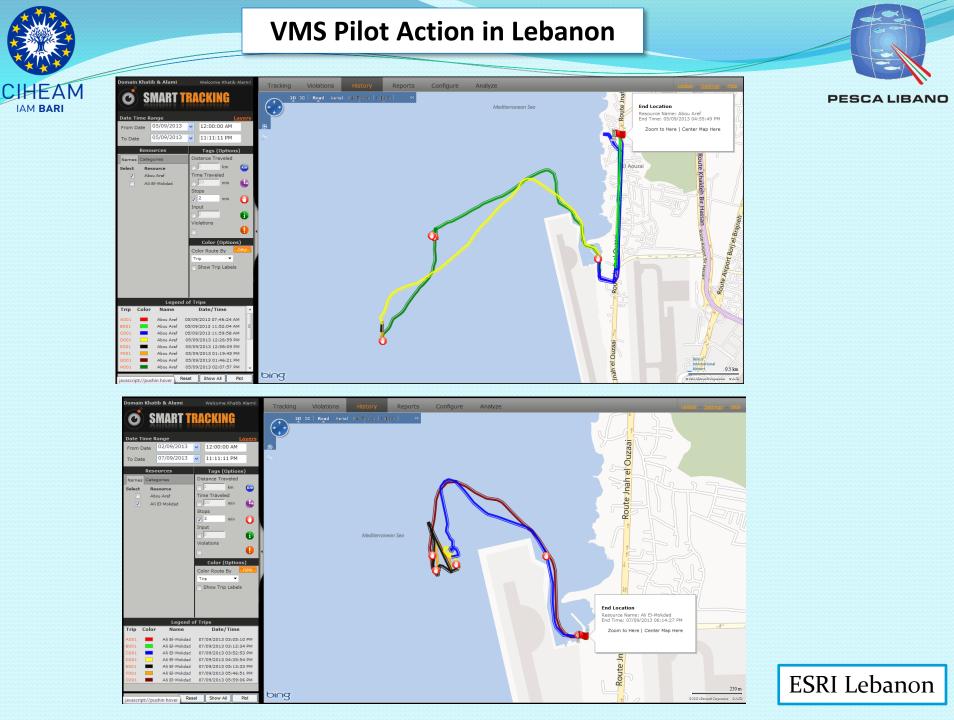
#### **PESCA LIBANO**

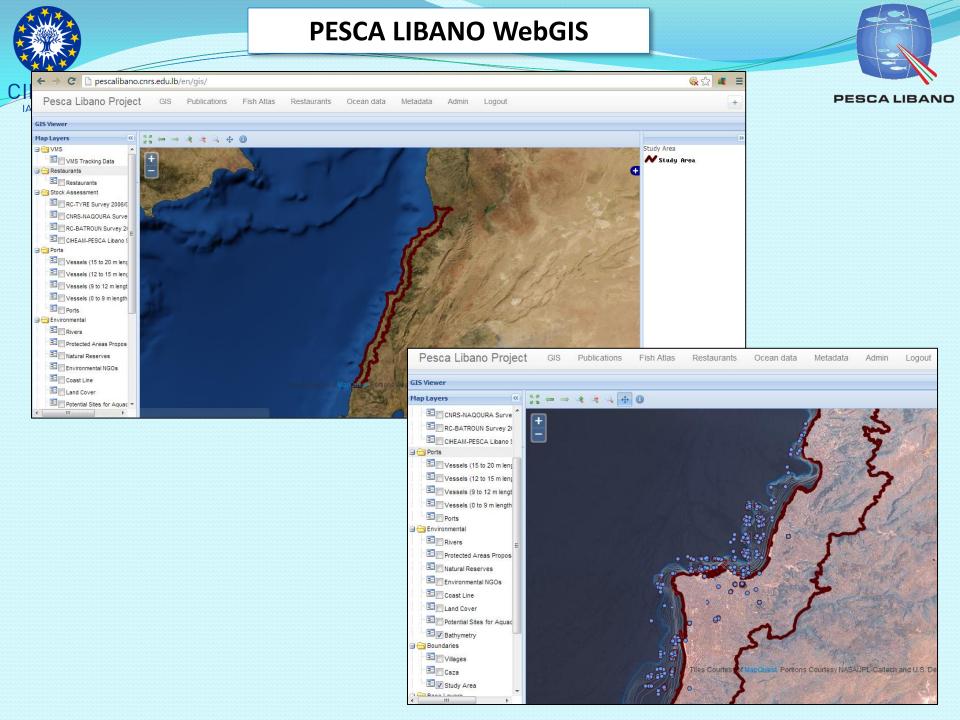
#### Advanced Asset Tracker

- The Vibration Feedback Confirming Successful Button Operation
- Water Resistant
- Full Power Management
- Thumb Sized Button Allowing Easier Emergency Alert or Instant Geo-fence Setting
- 400 Hours Standby Time, Up to 200 Days Standby Time With External Battery Accessory











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# Thank you for your attention





# **TENTATIVE BREAKDOWN: Rough/indicative figures**

	CLS	ESRI	"Internal"
Beacon	750€	200€	?
	-	250€	-
Data transfer (airtime)	75 €/vess once	_	-
	50 €/year/vess	36 €/year/vess	36 €/year/vess
Web Interface	6o €/year	30,000 €	8/10,000 €
Maintenance	0	10,000 €	0
Internet	0	36 €/year/ves	0