









Mediterranean Forum For Applied Ecosystem-Based Management

MED4EBM Identified and Mainstreamed Management Protocols: challenges *versus* solutions and lessons learnt.

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THANK YOU

JREDS

INSTM

TCNR

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AdT

Waed Ajarmeh Hala Ghazi Abd Allah al Zoubi Mohammad Badran

lafar Alamari

Jafar Alomari

Maysoon Kteifan

Abdel Rahman Abu Hamdeh

Amel Bellaaj Zouari Ismail Hamza Ali Badreddine Raghda Saad

AND ALL THE STAKEHOLDERS AND COLLABORATORS

































DATA
ANALYSIS
ACTION

CHECK _ANALYSIS























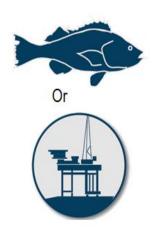
ANALYSIS

ACTION

CHECK \rightarrow **ANALYSIS**



Ecosystem Based Management







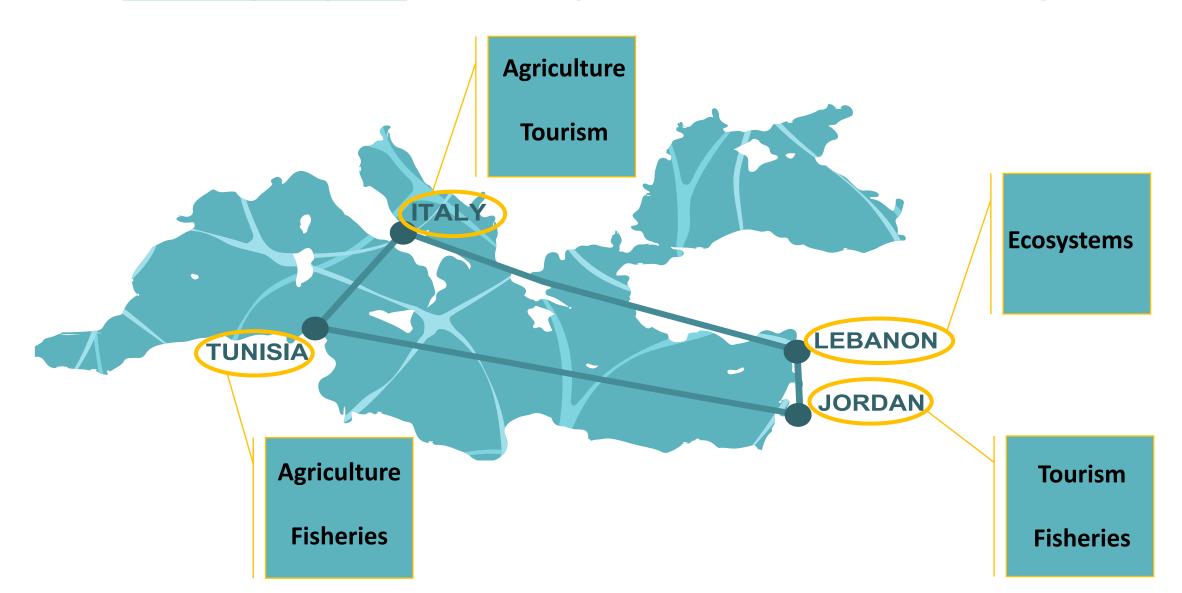
No EBM or Low EBM
(Single species or sector EBM)

Incremental EBM
(Multiple species or sectors EBM)

Comprehensive EBM (EBM of the entire system)

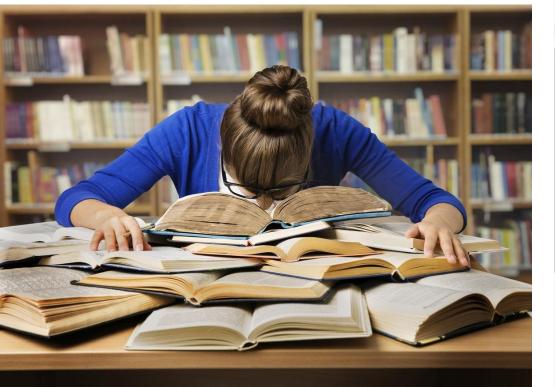


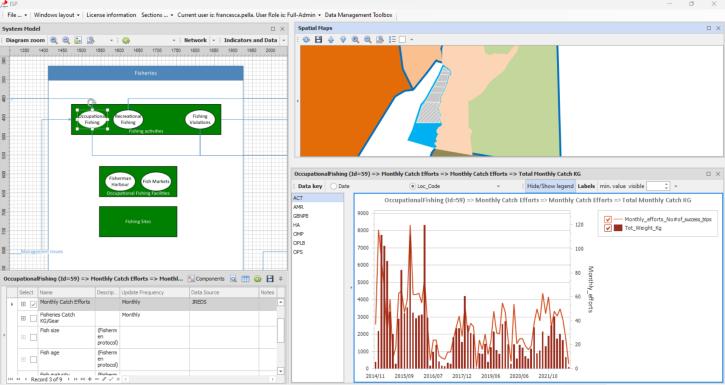
Priority Topics for the System Cause-Effect Analysis





Difference between "having the information" and "having the data"



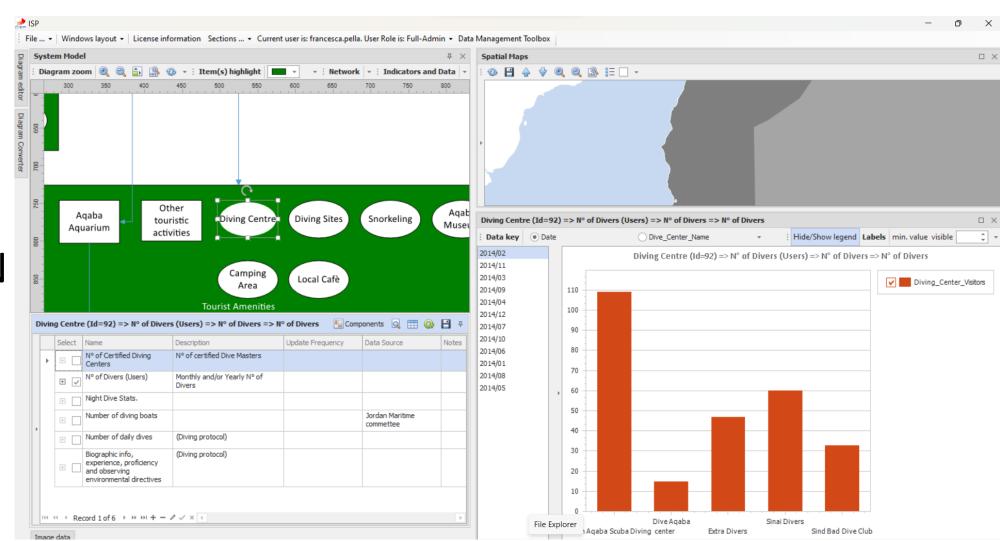




CHALLENGES



LACK OF TIME SERIES DATA

























DATA ANALYSIS

ACTION

CHECK ANALYSIS



GAP ANALYSIS

Management Action

YES Governance Protocol

DATA
AVAILABLE
IN THE ISP

NO

Monitoring Protocol



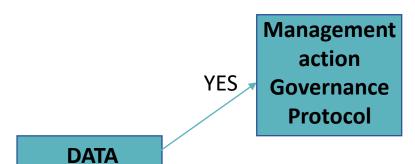
AVAILABLE

IN THE ISP

ITALY

Institutions responsible to collect data
Standard and recurring monitoring programme





BUT

Data from online repositories
Sources of information and field procedures fragmented and scattered

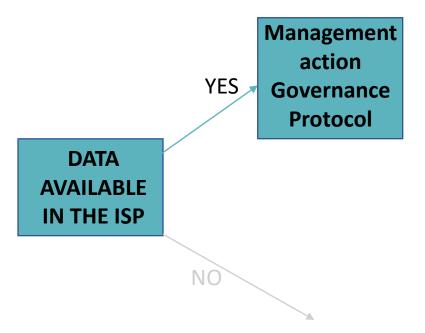
Networking, synergies and sustainability of the ISP aimed to support management actions.

Using the two target areas as pilot areas to then enlarge other management actions to other areas within the Gulf of Corigliano





ITALY



AGRICULTURE

Monitoring scheme for the assessment of the Ecosystem Based and Integrated Coastal Zone Management in the "gulf of Corigliano" pilot area applied to agriculture driver.

TOURISM

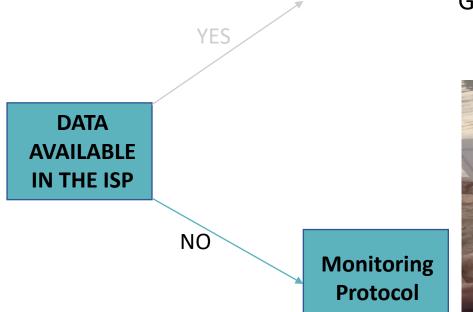
Monitoring scheme for the assessment of the Ecosystem based and Integrated Coastal Zone Management in the "gulf of Corigliano" pilot area applied to tourism driver.



JORDAN

Fishery activities

Monitoring scheme for fisheries following Ecosystem Based and Integrated Coastal Zone Management on the Jordanian coast of the Gulf of Aqaba







JORDAN

Glass bottom boats Recreational diving & ReefCheck

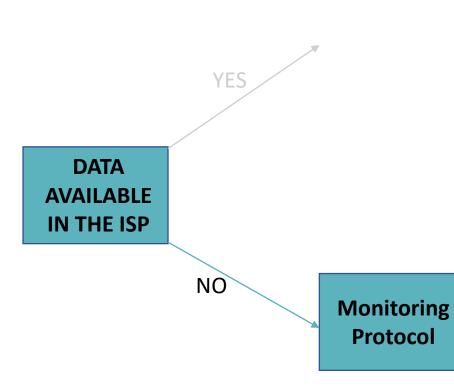
Monitoring scheme for touristic coastal amenities, namely Recreational Diving and Touristic Glass Bottom Boats following Ecosystem Based and Integrated Coastal Zone Management on the Jordanian coast of the Gulf of Aqaba



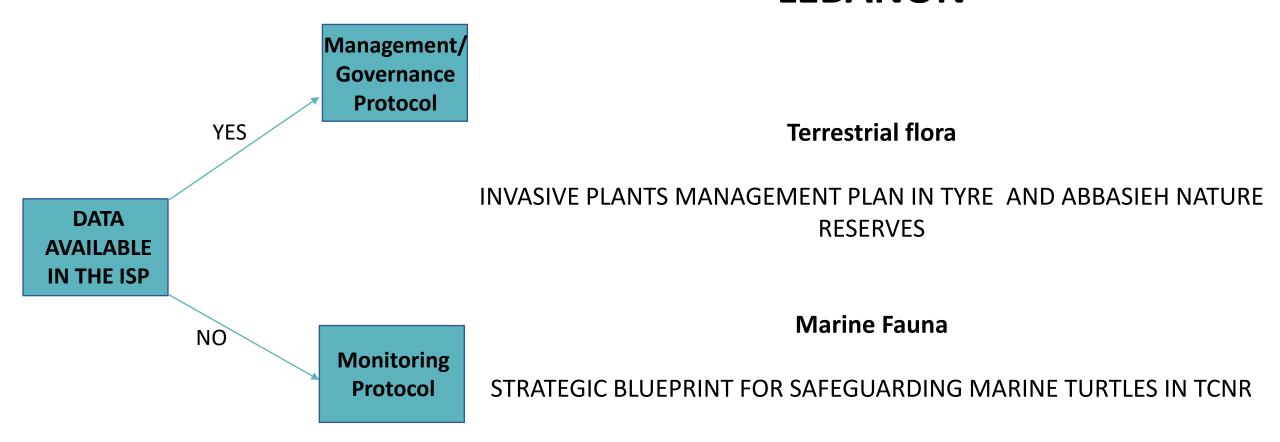
Coastal Habitats Monitoring Jordan

Reef Check





LEBANON





LEBANON

Terrestrial flora

INVASIVE PLANTS MANAGEMENT PLAN IN TYRE AND ABBASIEH NATURE RESERVES

Control/Eradication of camphorweed (*Heterotheca subaxillaris*) in TCNR

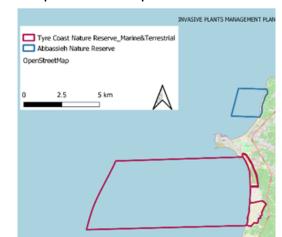




Map above and pictures from: Bou Dagher Kharrat et al 2016

Include a new area

Monitoring of other alien species

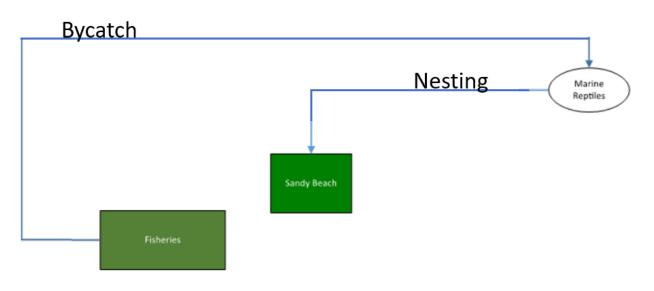


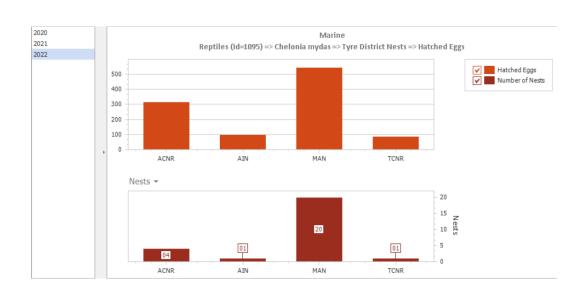




LEBANON

Marine fauna STRATEGIC BLUEPRINT FOR SAFEGUARDING MARINE TURTLES IN TCNR





But

BYCATCH:

Evaluate the impact – exploratory surveys Meetings with fishermen Exploring <u>possible</u> synergies and collaborations, such as Identifying and testing for the methods/technical solutions to mitigate incidental catches



























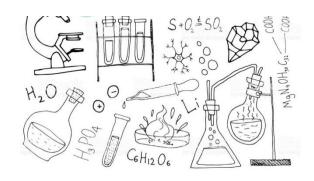
DATA
ANALYSIS
ACTION

CHECK \rightrightarrows **ANALYSIS**



Development of Monitoring protocol

From theory to practice



Prepare logistics

Results

Develop Protocol



2. Field work

Collect samples according to the protocol

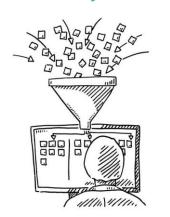
4. Data updating





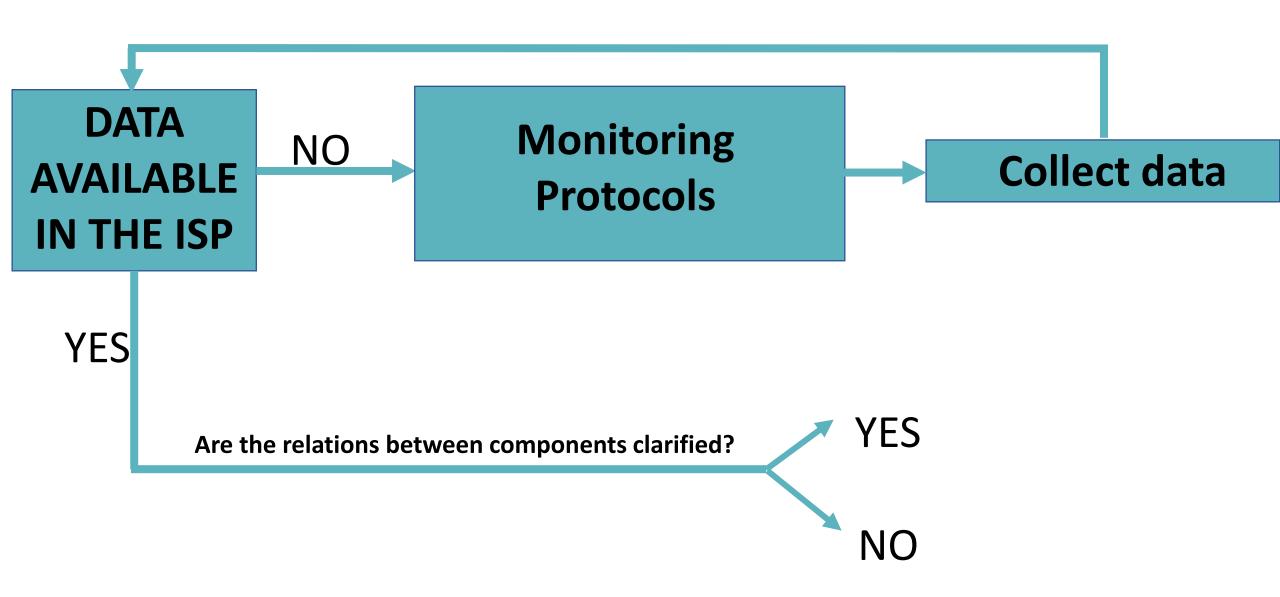
3. Lab. Analysis

and/or data analysis





Development of Management action





Development of Management action

