



Mediterranean Forum For Applied Ecosystem-Based Management



منتدى متوسطي للإدارة القائمة على النظم البيئية



Introductory Presentation

MED4EBM Project Final Workshop

ورشة العمل الختامية لمشروع منتدى متوسطي لإدارة الموارد الساحلية بنهج النظام البيئي

الخميس، أيلول 21 2023 Thursday, September 21st 2023

تونس العاصمة، تونس Tunisia, Tunis

Financed by ENI CBC MED Programme

MED4EBM is a Regional Networking Initiative for Environmental Protection

ENI CBC Med	
Programme Overarching objective	Programme Priority
B.4 - Environmental Protection, Climate Change Adaptation and Mitigation “Address Common Environmental Challenges”	B.4.4 - Incorporate the Ecosystem-Based Management Approach to ICZM into Local Development Planning

Project Partners

- ❖ Lead Applicant: UNDP Jordan
- ❖ Amici della Terra: Marine Areas at the Southern Mediterranean Sea, Italy
- ❖ Royal Marine Conservation Society “JREDS”: Aqaba, Jordan
- ❖ Tyre Coast Nature Reserve, “TCNR” Lebanon
- ❖ Institute National Des Sciences Et Technologies De La Mer “INSTM” Tunis
- ❖ Technical Partner: PROGES, Italy

Project Objectives

General Objective

Contribute to the conservation and sustainable development of Mediterranean coastal zones for the benefit of present and future generations by establishing effective ecosystem-based ICZM protocols.

Specific Objectives

- Enhance capacities of stakeholders and institutional actors involved in the management of coastal and marine areas
- Introduce and pilot-test a methodological management tool to facilitate coordination and harmonization of conservation and sustainable development practices
- Establish a cooperation and coordination platform for stakeholders involved in the management of coastal and marine areas to effectively practice EBM-ICZM.

Project Outputs and Indicators

Project Output	Indicators
An Ecosystem-Based ICZM governance protocol is established in each Project's target areas.	4 EB-ICZM protocols are established.
Ecosystem-based ICZM Decision Support Systems are established in the Project's target areas.	4 EB-ICZM-DSS software tools established.
Structural models of the ecological and socio-economic dynamics of the four Project's target areas.	120 structural models constructed.
An integrated set of Ecosystem-Based ICZM measures is developed in each Project's target areas.	4 integrated sets of Ecosystem-Based ICZM measures developed.
An Ecosystem-Based ICZM governance protocol is established in each Project's target areas.	2000 Ha
Training package delivered to selected managers and officers of relevant institutions.	4 training package
Mentorship on the EB-ICZM-DSS application is delivered in the course of the Project.	4 mentorships on the EB-ICZM-DSS application delivered

Project Approach

Spreading Innovative Methods and Tools

for effective incorporation of Ecosystem Based Management (EBM) into Integrated Coast Zone Management (ICZM)

Participatory and Evidence Based Planning and Sustainable Development of Coastal and Marine Areas

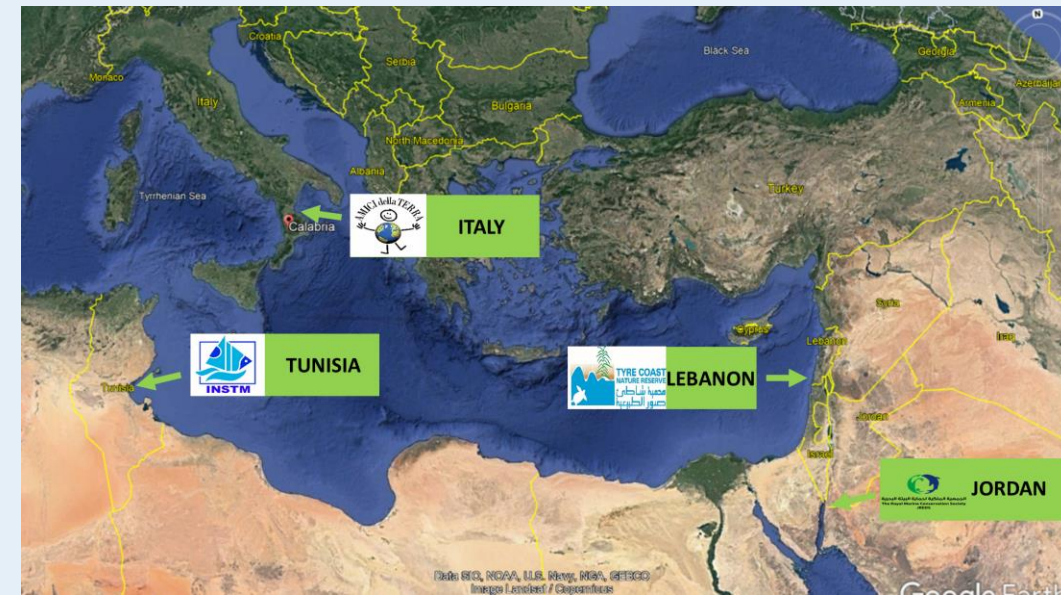
Project Target Areas

Golfo di Corigliano, (**Italy**)

Gulf of Aqaba (**Jordan**)

Tyre Coast Nature Reserve (**Lebanon**)

Kneiss Islands Nature Reserve (**Tunisia**)



Commonality Among the Project Target Areas

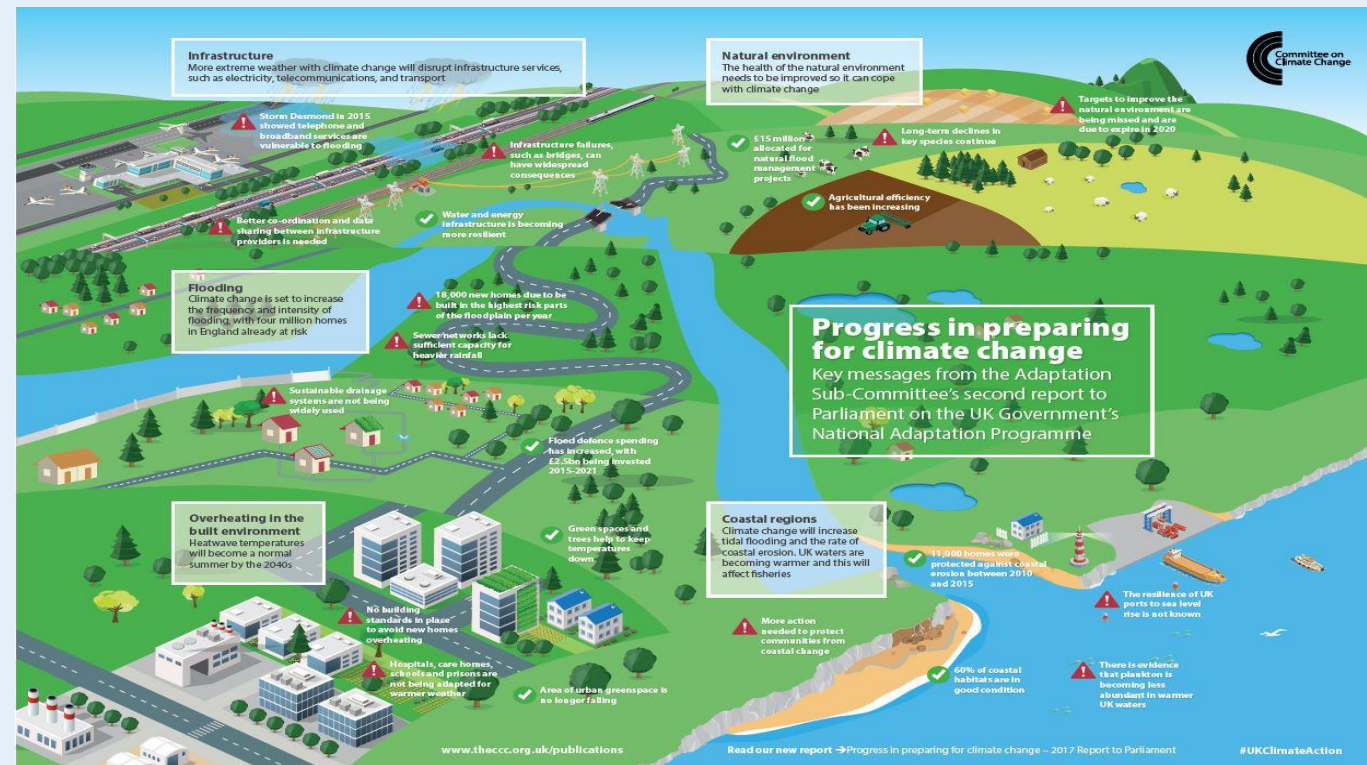
Shared Ecological Significance and Socio-economic Challenges

- ❑ **The Project** focuses on four coastal areas sharing ecological significance
 - **Three** are wet areas, of which **two** are Ramsar Sites;
 - **Three** characterised by the presence of fresh water estuaries creating fresh/marine water interface;
 - **Two** are important sea turtles nesting sites.
 - **One** is a globally distinguished resilient coral reef habitat
 - **All four** are bird migration hotspots;
- ❑ **The four** areas face similar socio-economic issues
 - Marine ↔ Fresh water issues
 - Coastal Developments: Touristic, Agricultural and Industrial
 - Fisheries

The Mediterranean interlinked ecosystem facing pressures and challenges

Coastal areas face complex environments with multifaceted ecological and socio-economic dynamics

MPAs provide an array of ecosystem services essential for the resilience of ecosystems and communities





Agenda 2030 of Sustainable Development Goals

Manging the Biosphere to support Society and the Economy.....

Without Compromising the Natural Assets?

Integrated Management of Coastal Areas

A Dynamic Process that

- Requires a multi-disciplinary approach
- Can be communicated through different, interrelated systems and across time
- Considers Human Activities in land and marine ecosystems

Follows a holistic approach that

- Reforms competing interests toward cooperating objectives
- Builds shared understanding across diverse stakeholders
- Establishes strong organizational and co-management capacity

MED4EBM Approach in Achieving Integrated Management

Enhance Management Capacity of CZs and MPAs through:

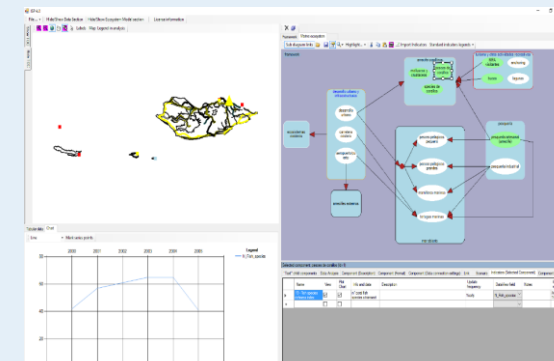
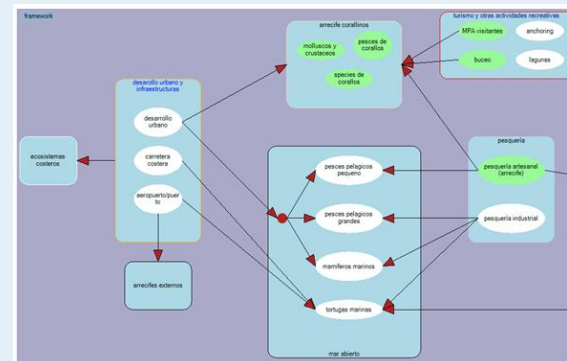
- Understanding problems and responding to multiple technical and practical challenges
- Developing a collaborative technical and co-management integrated approach
- Introducing effective management tools, practices and methodologies
- Supporting monitoring and planning of coastal and marine ecosystems
- Evidence based approach in planning, development and monitoring of coastal areas
- Transnational cooperation between MPAs and coastal zone management stakeholders sharing lessons learned, experiences, knowledge and know-how
- Establishing a permanent Forum for sustaining the above and collaborative EBICZM

Ecosystem Context Analysis

- Context identification
- Open dialogue with stakeholders and concerned entities
- Shared vision with a common management framework



Matriz	Ecosistemas Marinos							
Methodología de análisis	análisis de los principales hábitats marinos y de las especies de interés natural y económica							
Componentes	mar abierto	arrecifes externos	arrecifes coralinos	otros				
Descripción de los componentes (cualitativa y cuantitativa)		dos islas frente de la playa al oeste de la ciudad	arrecife coralino al oeste de la ciudad (255 km ²)	---				
Sub-componentes	peces pelágicos y siburones	mamíferos marinos	tortugas marinas	No hay	especies de corales	peces de corales	molluscos y crustáceos	---
Descripción de los sub-componentes (cualitativa y cuantitativa)	Especies más pescadas: <i>S.comersonn</i> , <i>S.makaira</i> spp., <i>Talpacote</i> , <i>E.affinis</i> , <i>K.Paloma</i>	7 especies de delfines, maníes	Se encuentran 4 de las 7 especies de tortuga marinas de este océano		235 especies de corales formadores de arrecife 30 especies de corales blandos	Comunidades principales: <i>C.flavoxilla</i> 20%, <i>C.ribeiri</i> 11%, <i>P.cornutus</i> 10%, <i>D.marginatus</i> 9%, <i>S.verucolor</i> 8% ...		---
Relaciones con otros componentes	pesquería industrial: la pesca sostenible proporciona alimento, genera empleo y contribuye a la economía local (ver Matriz: Actividades Económicas)			protegen el litoral de tormentas severas		actividades recreativas y turísticas como buceo y pesca deportiva (ver Matriz: Actividades Económicas)		pesquería artesanal (ver Matriz: Actividades Económicas)



Context identification



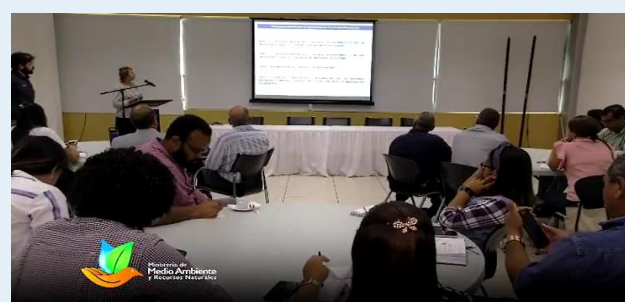
Descriptive analysis



Qualitative analysis

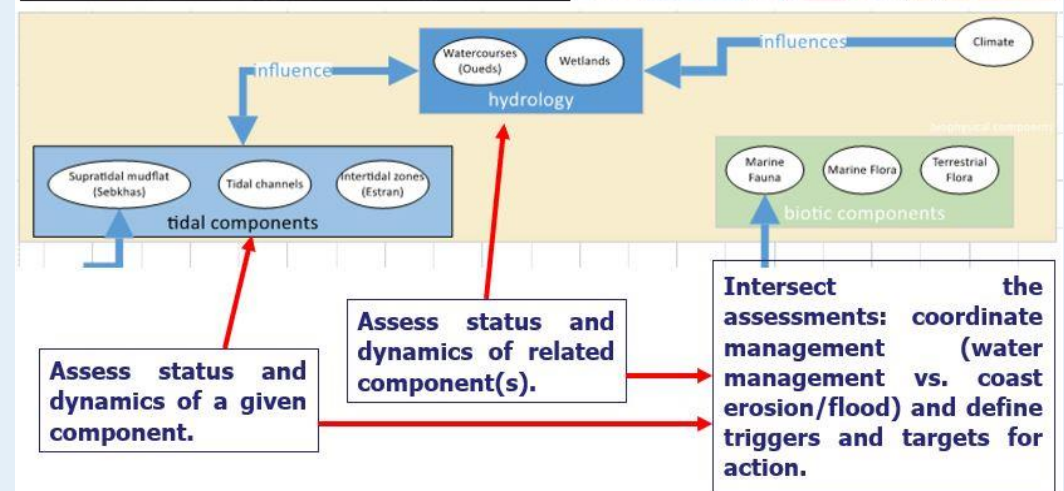
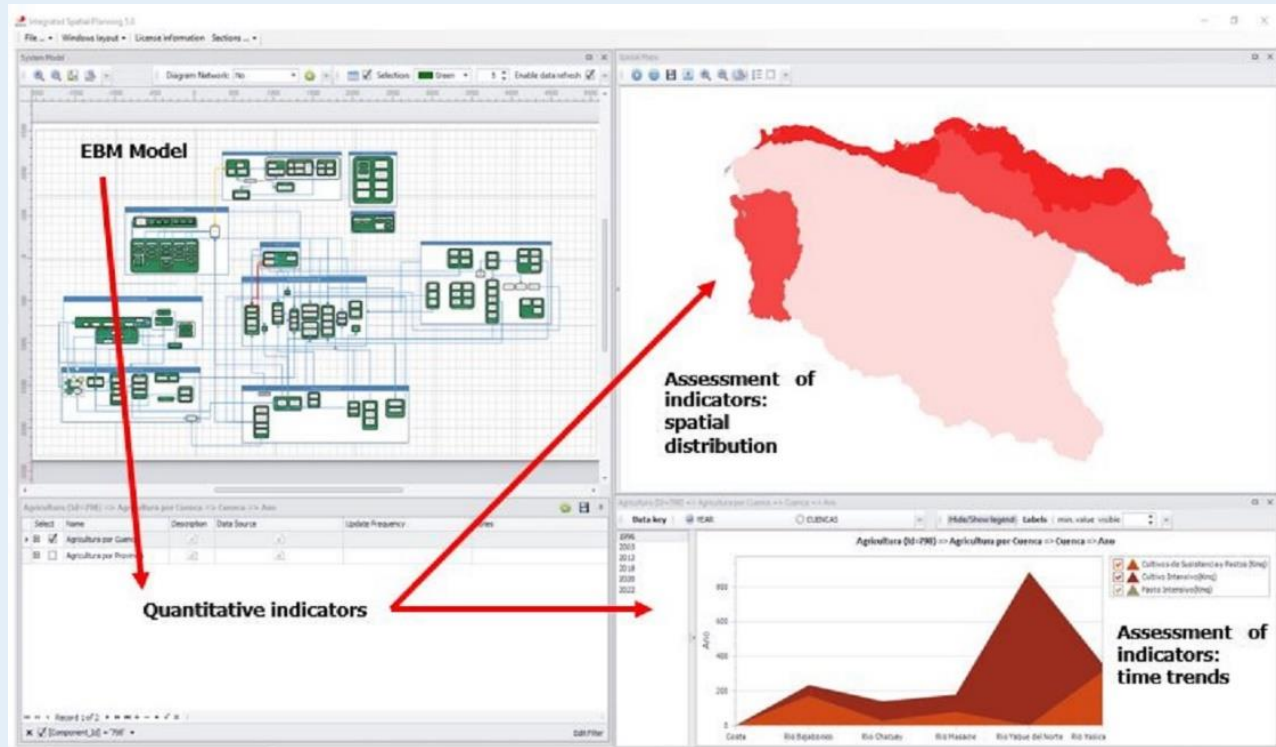


Quantitative analysis

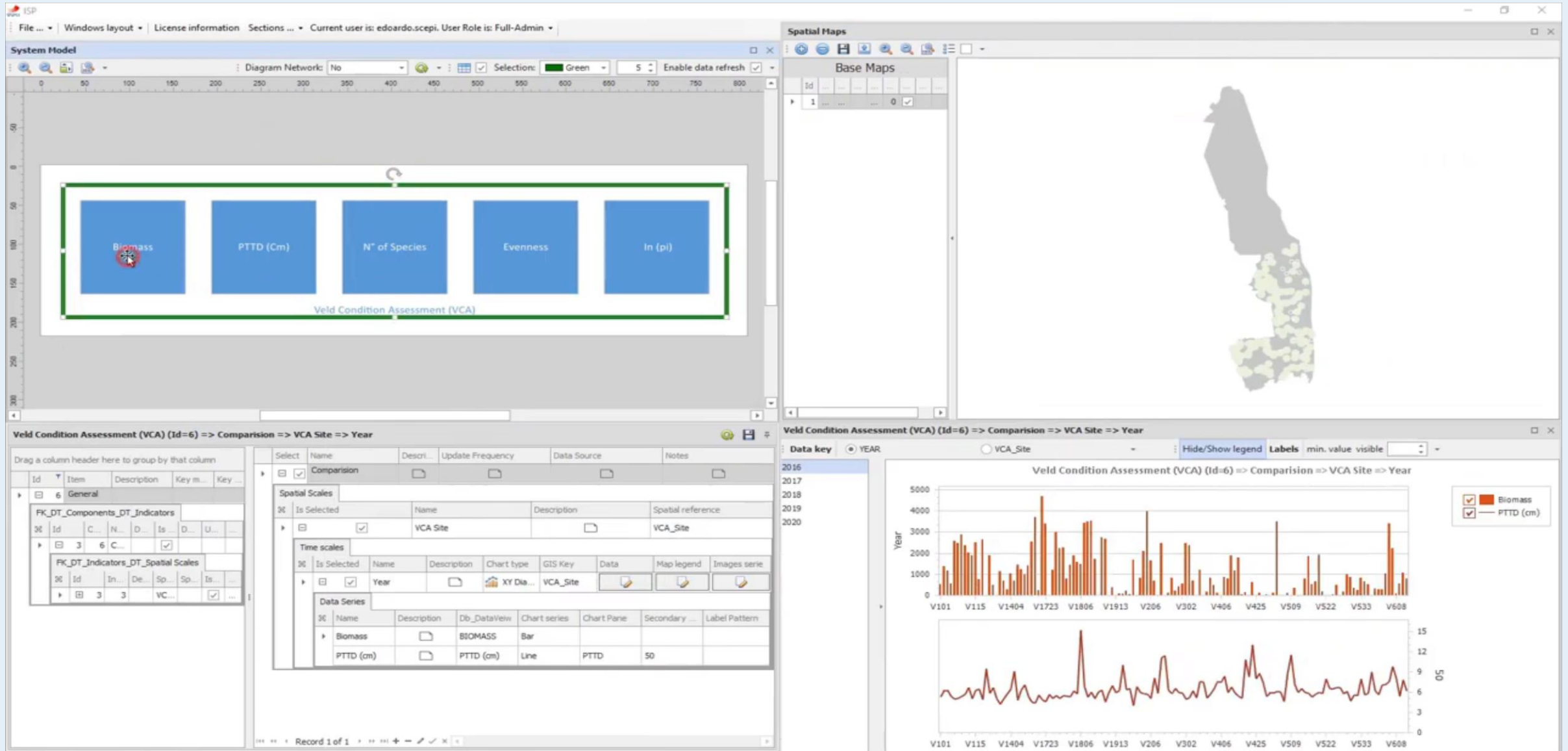


System Cause-Effect Analysis

- Balanced environmental, social, economic, recreational and cultural objectives
- Sharing of strategic objectives and outcomes with the stakeholders concerned



Real Time Data for Planning and Management



More Information and Contacts



Amici della terra, Italy - www.amicidellaterra.it

Mediterranean Forum for Ecosystem Based Management



Royal Marine Conservation Society JREDS, Jordan

www.jreds.org

الجمعية الملكية لحماية البيئة البحرية
The Royal Marine Conservation Society
JREDS



Tyre Coast Nature Reserve, Lebanon - www.tcnr-leb.com



Institut National Des Sciences Et Technologie De La Mer, Tunis

www.instm.agrinet.tn



UNDP, Jordan

www.jo.undp.org



PROGES, Italy

www.proges-sds.it



MED4EBM  Mediterranean Forum for Applied Ecosystem-Based Management

Thank you شكرا جزيلا Grazie

<http://www.enicbcmed.eu/projects/med4ebm>

