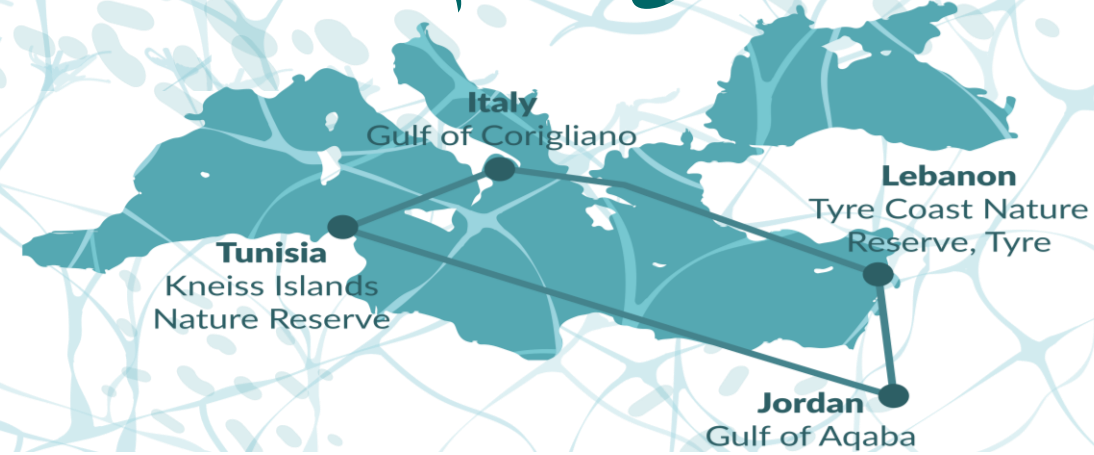




المنتدى المتوسطي للإدارة القائمة على النظم البيئية



Mediterranean Forum For Applied Ecosystem-Based Management



MED4EBM Results & Achievements in Kneiss Islands Natural Reserve

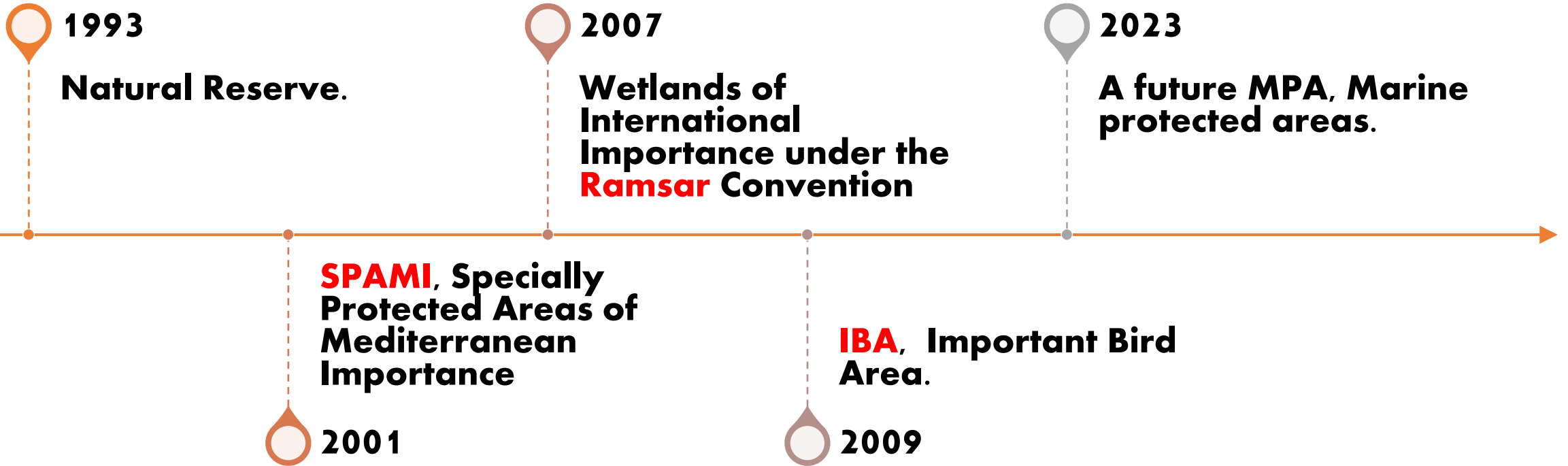
Dr. Amel Bellaaj Zouari

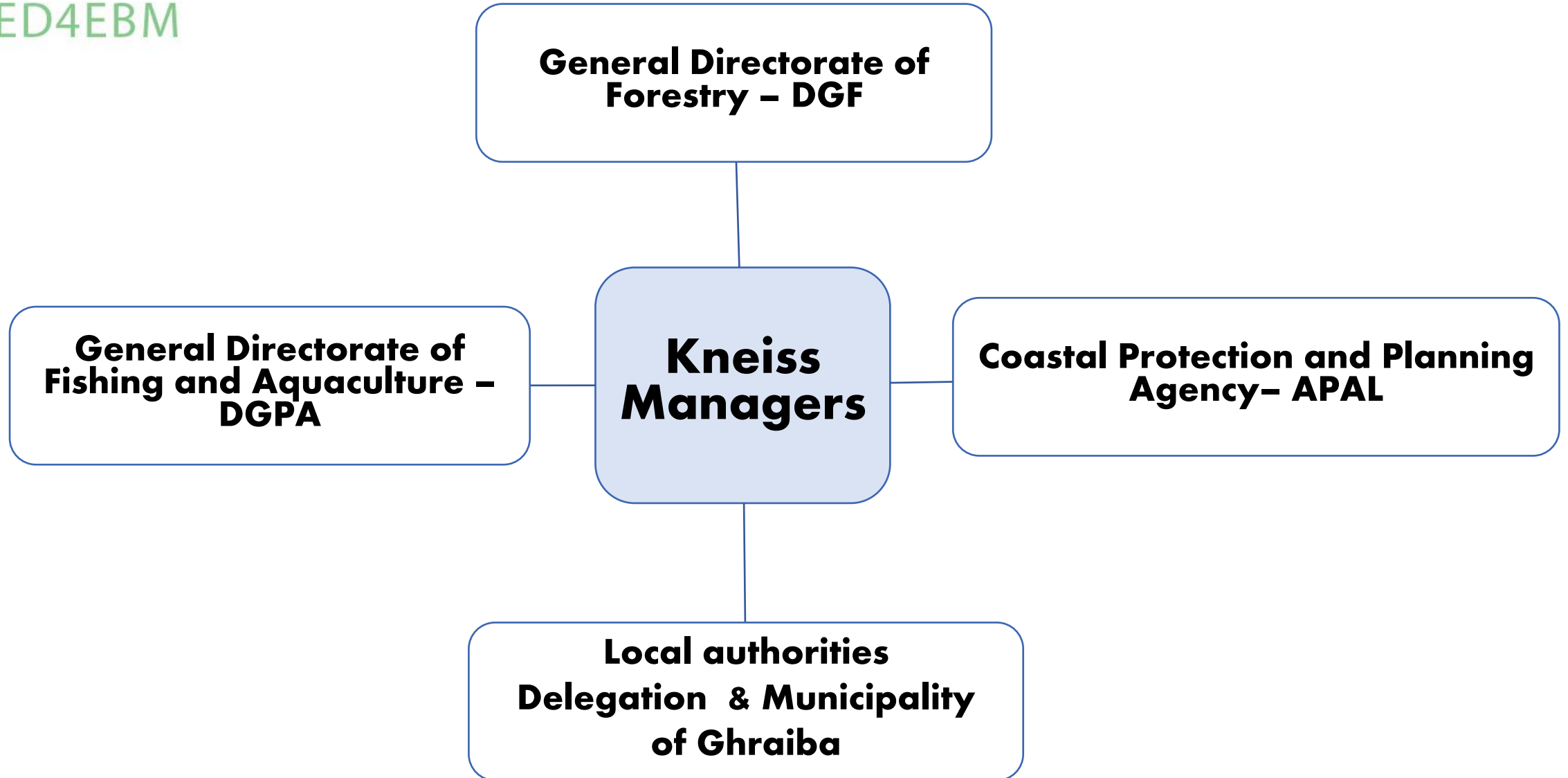
Regency Gammarth Hotel, Tunis, Tunisia – September 21st, 2023



Kneiss Islands Natural Reserve







Wetlands

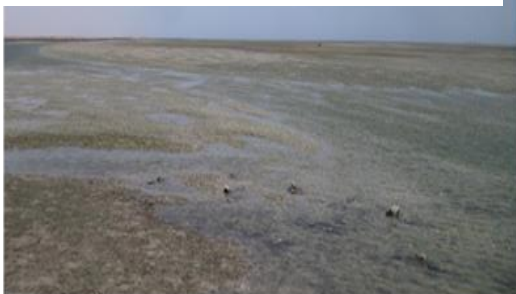
Supratidal mudflats



Sea Schorres



Intertidal zones



Tidal channels



Avifauna



130,000 to 160,000 migratory birds

Up to 50 000 wintering birds

From 3000 to 3500 of nesting birds

Main Economic Activities



MED4EBM





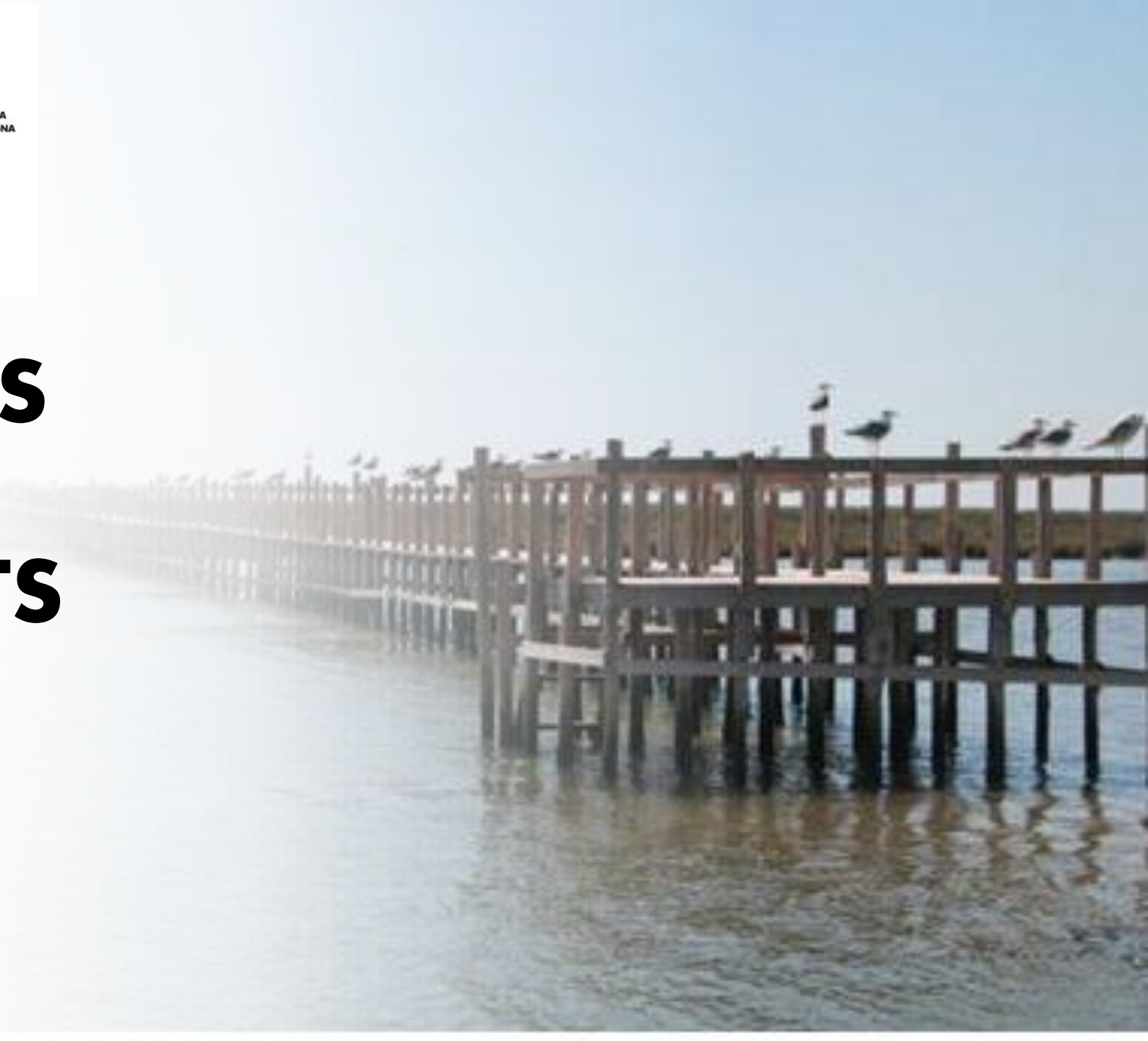
Project funded by the
EUROPEAN UNION



REGIONE AUTÒNOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA



MAIN RESULTS & ACHIEVEMENTS



System diagram

Database

EB-ICZM-DSS tool

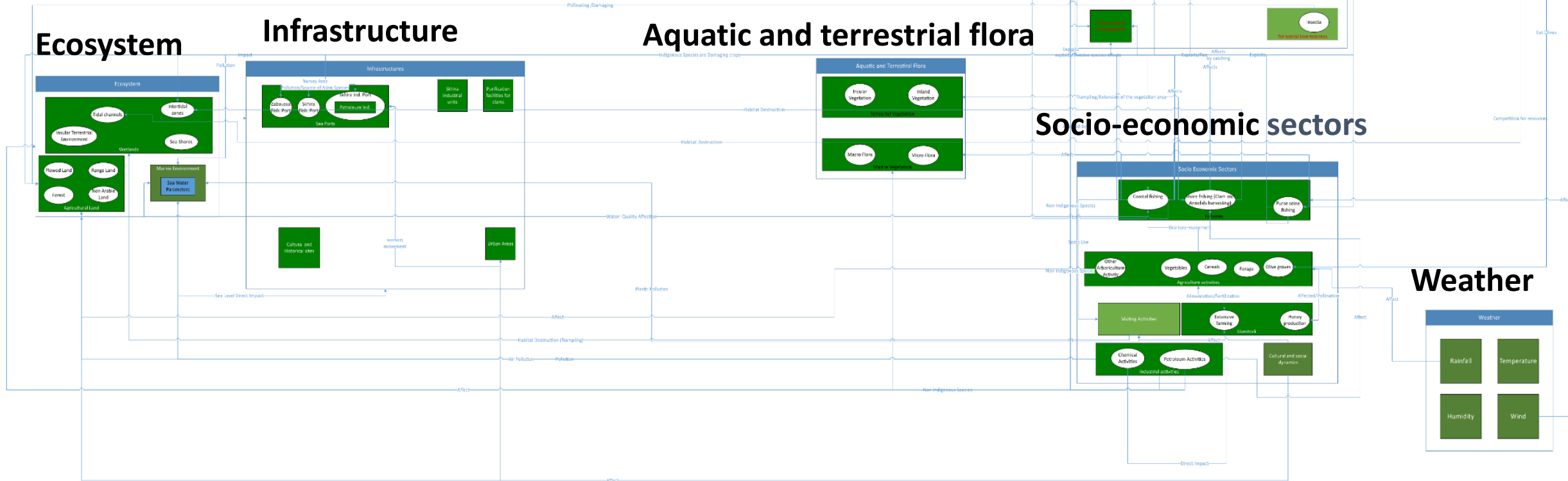
**ICZM Management/governance
protocols**

Monitoring protocols

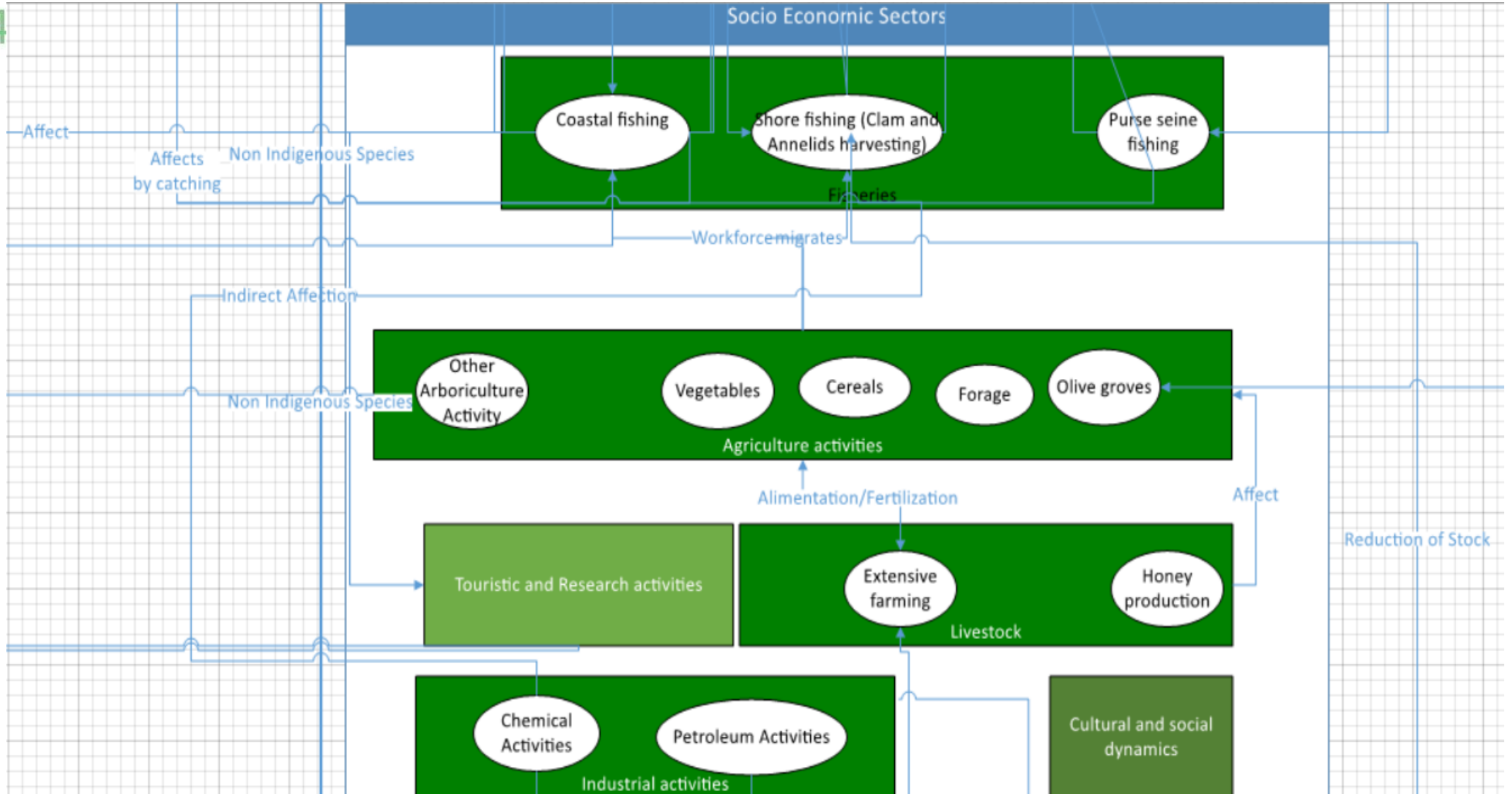
Aquatic and terrestrial fauna



Kneiss System diagram in place

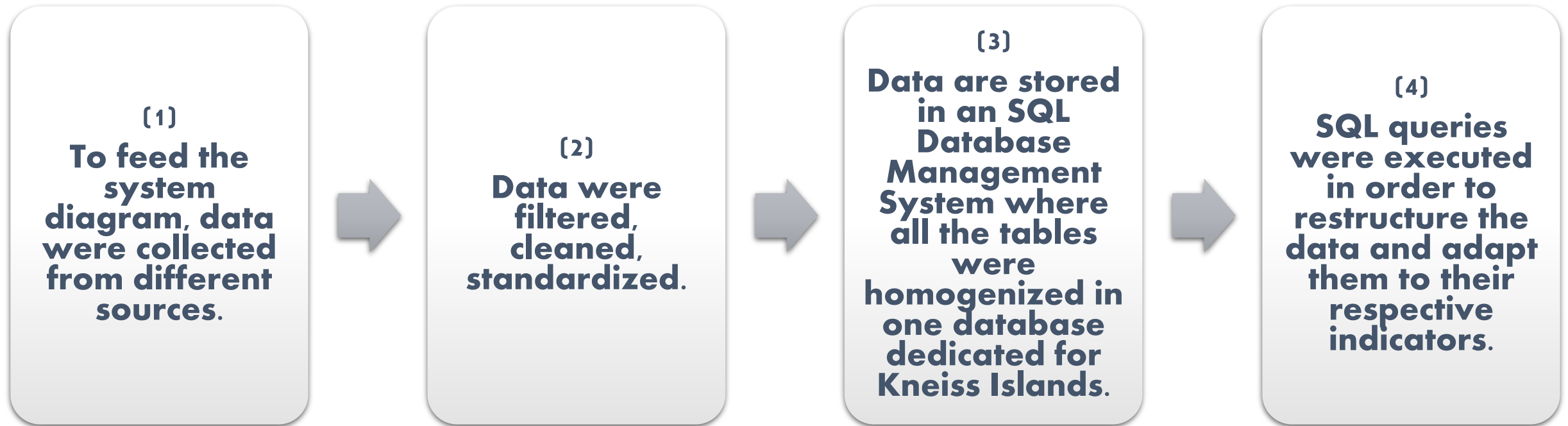



MED4





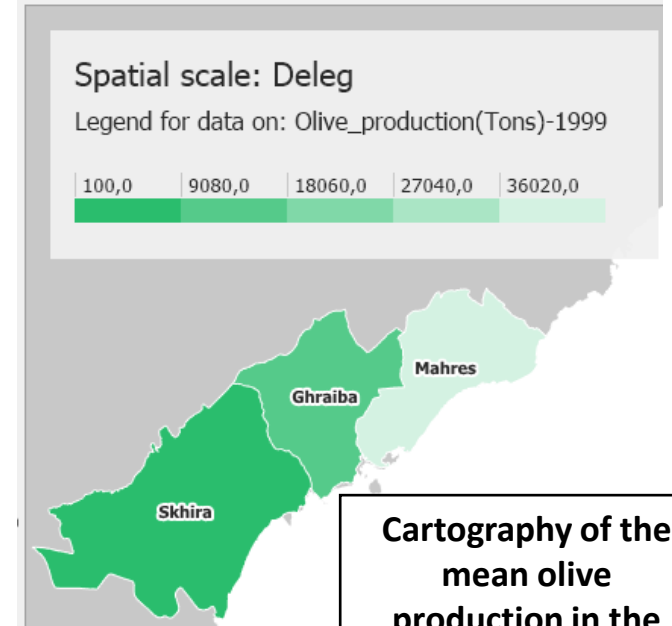
Database implemented for Kneiss Islands



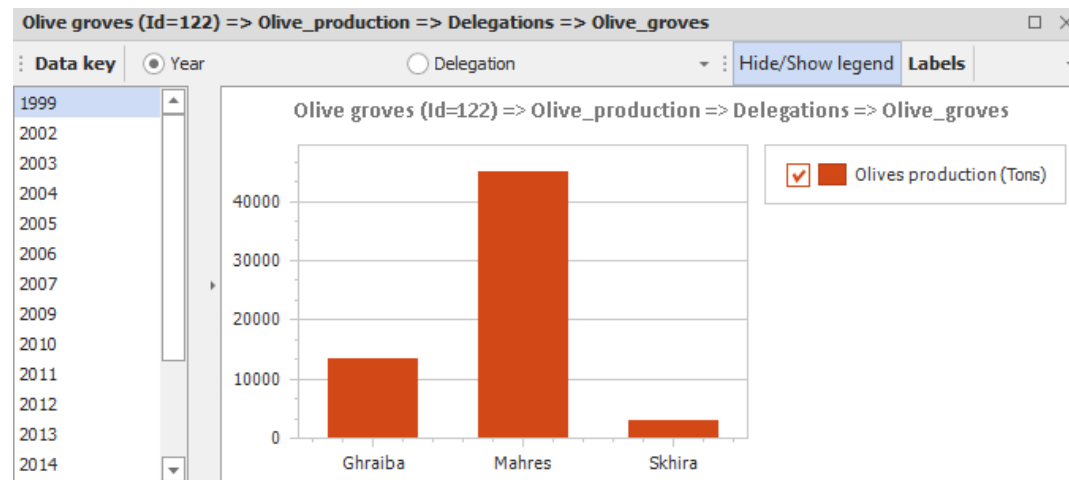
The EB-ICZM-DSS tool was implemented



- **Decision Support System**
- **Data visualisation**
- **A platform for data sharing for a better decision-making**



Cartography of the mean olive production in the year 1999



Graph for the olive production in the year 1999

Subcomponent



indicator

Select	Name
<input checked="" type="checkbox"/>	Olive_production
<input type="checkbox"/>	Olive surface

Development of ICZM Management/governance protocols Monitoring protocols



(1)
**Analysing data
using ISP
software with
stakeholders
involvement**



(2)
**cause/ effect
analysis was
preformed to
explain the
relations and the
interactions
between data**



(3)
**Define ICZM
initiatives by
identifying the
problems
between sectors
and
(sub)components
and proposing
the solutions in a
form of
governmental
protocols and
management
actions**



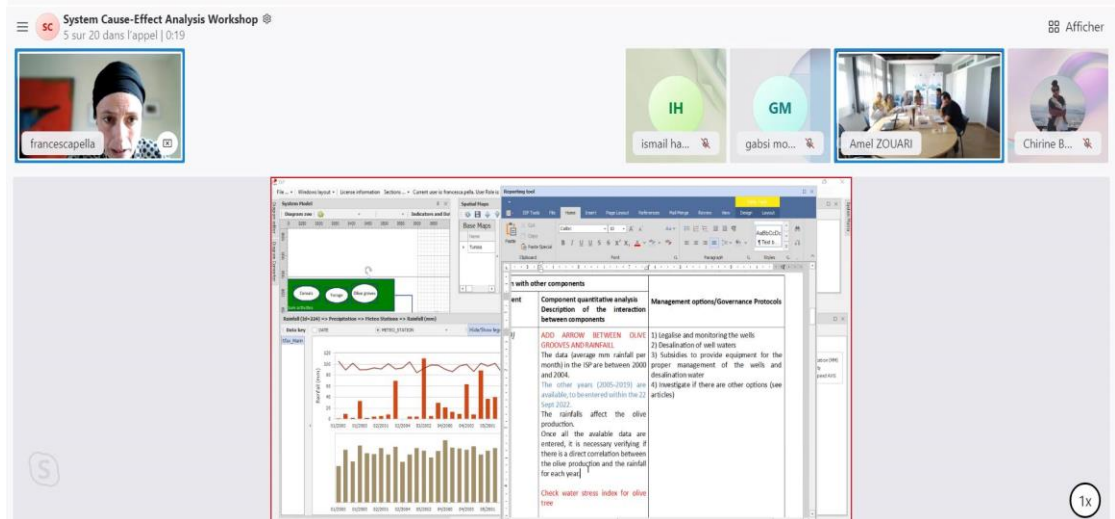
(4)
**To enhance the
decision making
process:
field campaigns
were carried on
in order to
sample missing
important data**

↓
**A monitoring
protocol for the
wetlands' abiotic
parameters was
elaborated**



System Cause-Effect Analysis Workshop
5 sur 20 dans l'appel | 0:19

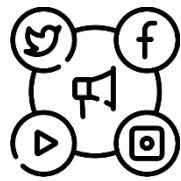
francescapella | ismail ha... | gabsi mo... | Amel ZOUARI | Chirine B...




Communication & Visibility

Six awareness & sensitization events

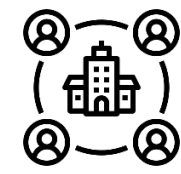
Kneiss Islands Ghraiba



Over than **150** publications on social media (Videos, publications, articles,)



Over than **2900** communication materials designed, produced and distributed



Various Target Beneficiaries were involved (Local population, Kneiss managers, institutional stakeholders, researchers, university teachers, NGO,...)





Water migratory birds in Kneiss islands

"Let's promote kneiss birds"



**Economic activities
in Kneiss islands: Towards
sustainable management
of resources**





World Cleanup Day in kneiss islands



Eight Capacity and competence building trainings



**Ecosystem Approach to
Fisheries (EAF)**



**Geographic Information
System with ESRI
technology training**



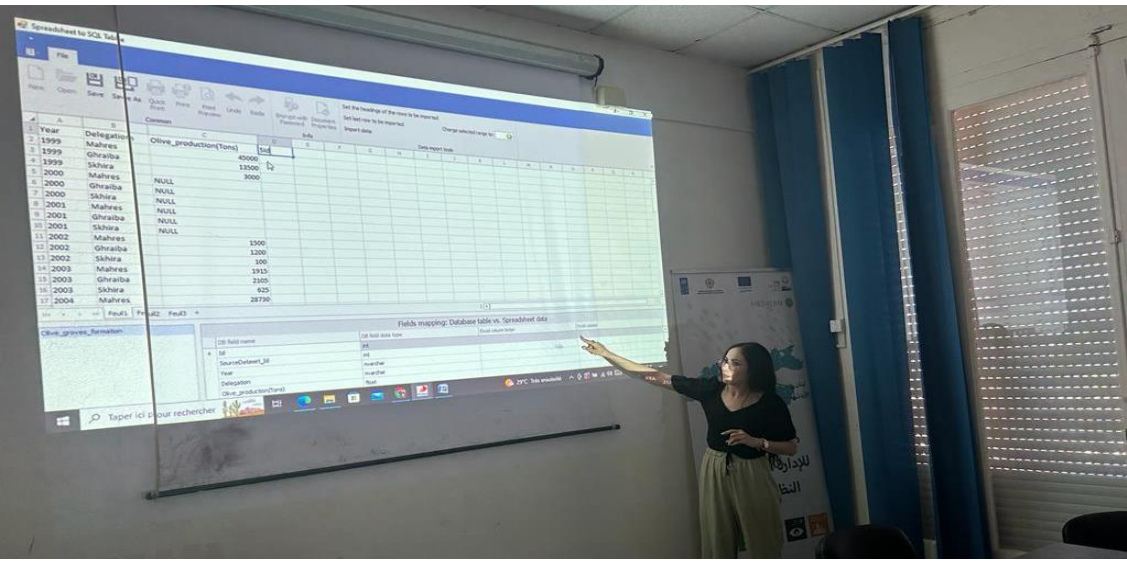
**Training on the
identification of species
landed in Tunisia**



- **Development of a communication plan & strengthening of interpersonal communication skills within MED4EBM project team**
- **Time management and interpersonal communication**



Mentoring and coaching on the EB-ICZM-DSS application



Synergy & MED4EBM promotion

SHAREMED First Capitalisation Workshop

Designing the future system of observing systems to assess and addresses environmental threats to the Mediterranean marine ecosystem

14&15 décembre 2020



Four Ecosystem-based-Integrated Coastal Zone Management-Decision Support (EB-ICZM-DSS) built upon innovative methods and software tools

- Integrated datasets on social, economic and environmental dynamics occurring in four coastal areas across the Mediterranean/Red-Sea.
- Institutional databases, technical and scientific reports, websites, field campaigns, drones for routine environmental surveillance (e.g. erosion, illegal tourism installations on beaches, solid waste pollution, illegal dumps), satellite.
- Driven by management indicators for relevant site(s) and ecosystem(s)
- Multi-scale integrated, according to the focused indicator(s).
- Managers and decision makers, ICZM stakeholders and institutional actors.



SHAREMED
First Capitalisation Workshop
Designing the future system of observing systems to assess and address threats to the Mediterranean marine ecosystem - State-of-the-art, needs and future direction

Webinar: 14-15th December, 2020

Amel Bellaaj Zouari
Mediterranean Forum for Applied Ecosystem-Based Management, MED4EBM



MED4EBM

Project name: Mediterranean Forum for Ecosystem-Based Management, MED4EBM

Project coordinator: Nedal Alouran, UNDP-Jordan office

Project duration: October 2019-October 2022

Funding authority: European Union

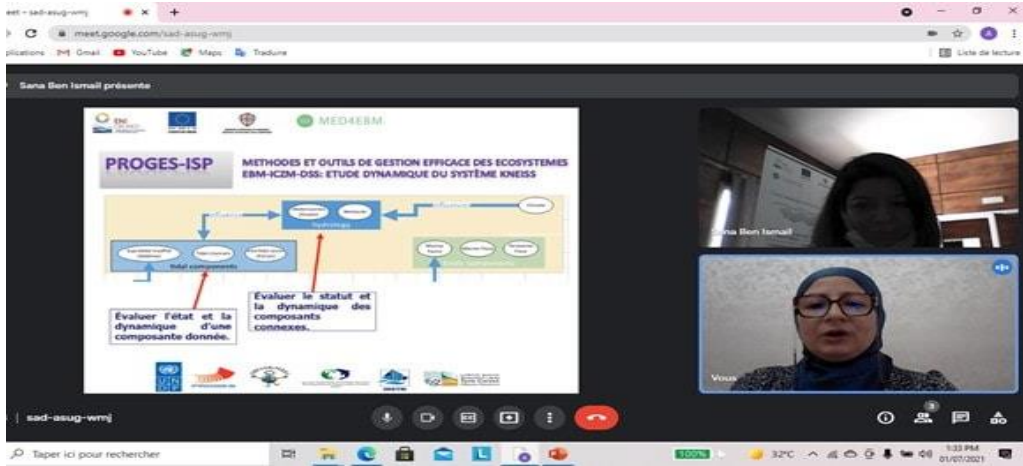
Geographic extension: The Mediterranean

Italy
Tarsia Lake

Tunisia
Kneiss Islands Nature Reserve

Lebanon
Tyre Coasts Nature Reserve

Jordan
El Aqaba coasts



PROGES-ISP

Gestion écosystémique intelligente des îles Kneiss

02 mars 2023



COMMON project training on "Integrated Coastal Zone Management"

1^{er} juillet 2021



Target Beneficiaries

Local population

Farmers, Fishermen, clam collectors and childrens (≈600 pupils from five Primary schools)

Local Authorities and Institutions

Delegation, Municipality, House of culture Ghraiba

Kneiss Islands managers

CRDA, APAL & DGF

Public Administrations and Organizations

APIP, UTAP, AVFA, Fishing Groups

Universities and Research Institute

INSTM, Faculty of Sciences of Sfax and Gabès

NGOs

APNES, ASCOB/Syrtis, ACG, NGB, Marine Scout Sfax

Participatory Approach Target Beneficiaries & Stakeholders

Local population

Farmers, Fishermen, clam collectors and childrens (≈600 pupils from five Primary schools)

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THANK YOU

