



CNR
ISMAR
ISTITUTO
DI SCIENZE
MARINE



WP2 - Activity 2.3 Transferring

GIS tools for data management and sharing

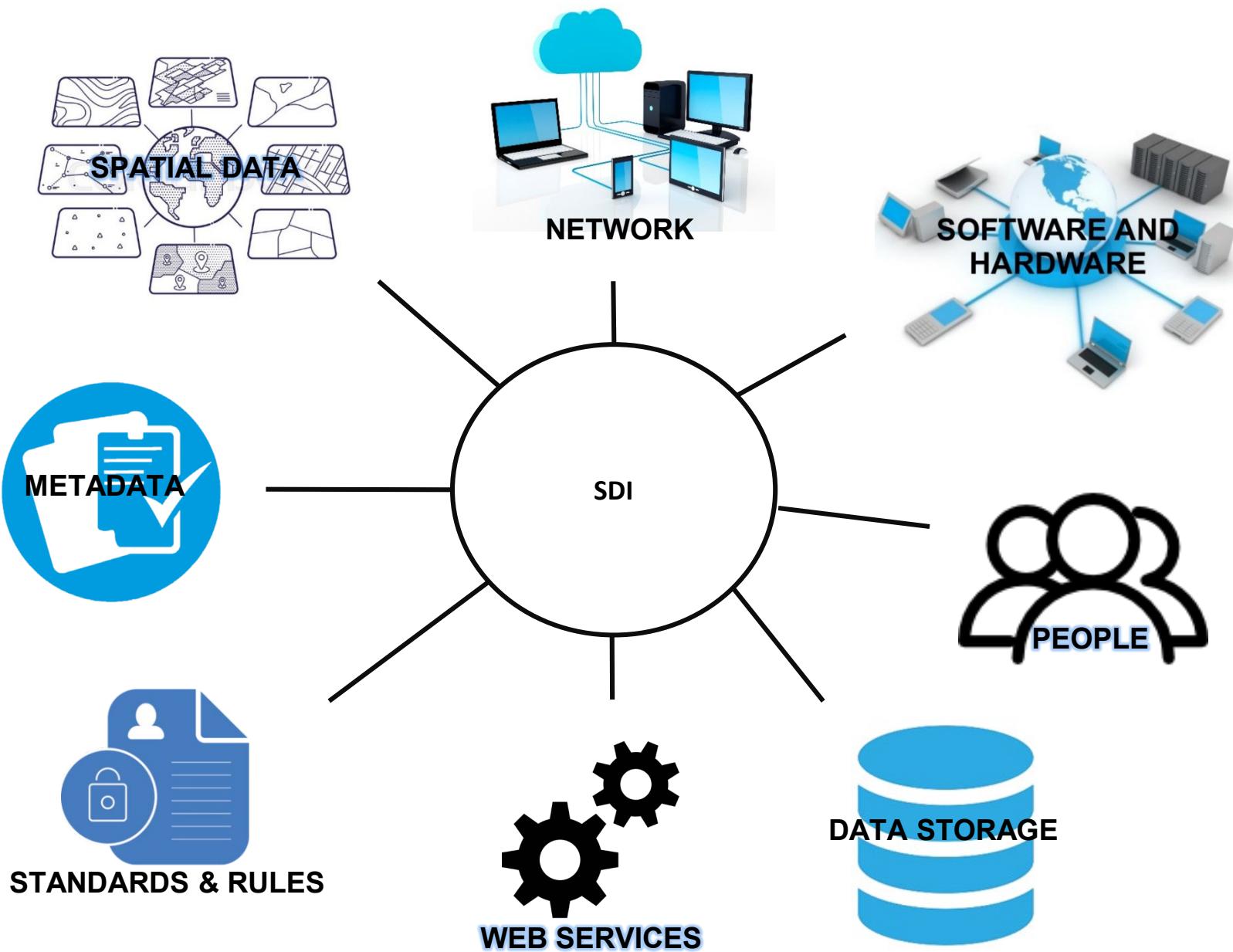
Valentina Grande, Federica Foglini, Mariacristina Prampolini

CNR-ISMAR

13th July 2021

Digital Kick-off Meeting

AMAre Spatial Data Infrastructure



AMAre Workflow

REAL WORLD

- MPAs



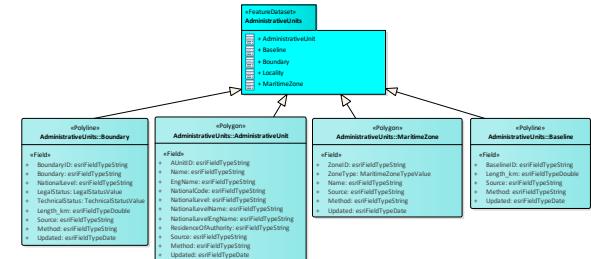
CONCEPTUAL MODEL



INSPIRE Data Specifications

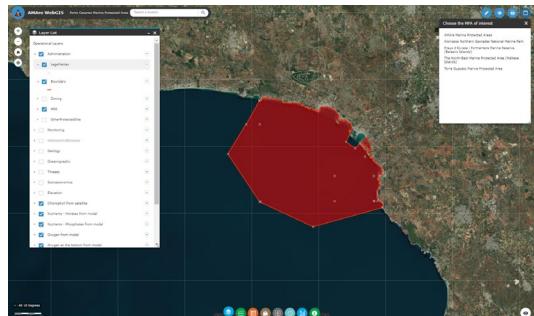
Enterprise Architect

LOGICAL MODEL



UML Model

WEBAPP PUBLICATION
Geoportal



METADATA COMPILATION
Geoportal catalogue

Action	Title	Owner	Status	Method	Date
	AMARE_MT_MPAs	MT	Approved	Editor	2020-01-10
	AMARE_MT_Habitat	MT	Approved	Editor	2020-01-09
	AMARE_MT_Bathymetry	MT	Approved	Editor	2020-01-09
	AMARE_MT_ContourLine	MT	Approved	Editor	2020-01-09

**ESRI
Geoport
al**

**SYMOLOGY &
CATALOGATION**

Tempi presenti nel catalogo			
Action	Name	Group	Descriptions
1	Bathymetry	MARE_v1	Bathymetry - MARE_v1
2	Coastline	MARE_v1	Coastline - MARE_v1
3	Contour line 50 m	MARE_v1	Contour line 50 m - MARE_v1
4	Dumped materials	MARE_v1	Dumped materials - MARE_v1
5	Elevation	MARE_v1	Elevation - MARE_v1
6	EUNIS Biotope	MARE_v1	EUNIS Biotope - MARE_v1
7	EUNIS Seabed map	MARE_v1	EUNIS Seabed map - MARE_v1
8	EUNIS Substrate	MARE_v1	EUNIS Substrate - MARE_v1
9	Hillshade bathymetry	MARE_v1	Hillshade bathymetry - MARE_v1
10	Hillshade elevation	MARE_v1	Hillshade elevation - MARE_v1
11	Inland water	MARE_v1	Inland water - MARE_v1
12	Karabuna habitat map	MARE_v1	Karabuna habitat map - MARE_v1
13	Land cover change	MARE_v1	LandCoverChange - MARE_v1
14	Land cover 2000	MARE_v1	LandCover_2000 - MARE_v1
15	Land cover 2006	MARE_v1	LandCover_2006 - MARE_v1

MOKA Catalogue

MOKA CMS
←
ArcGIS
server

PHYSICAL MODEL



Geodatabase

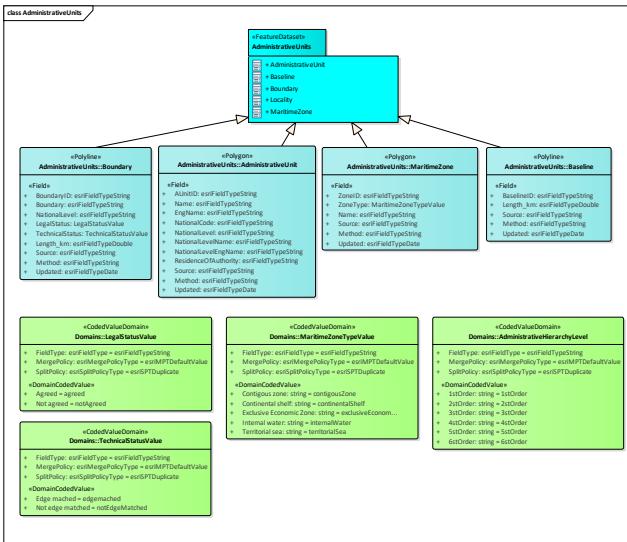
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ArcGIS

AMAre Products

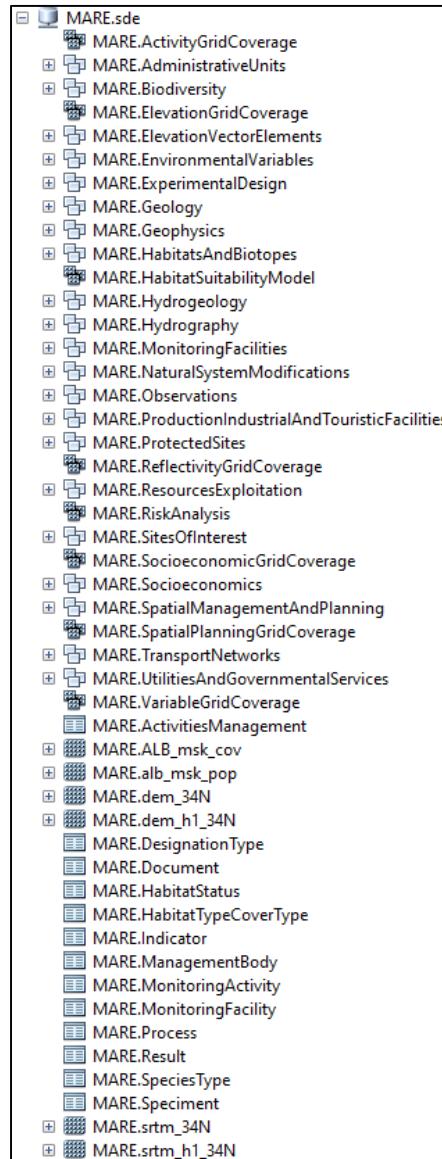
1. DATA COLLECTION

Layer Category	Layer	Source
AdministrativeUnits	Internal water	MarineRegion.org
AdministrativeUnits	12 NM	MarineRegion.org
AdministrativeUnits	24 NM	MarineRegion.org
AdministrativeUnits	EEZ	MarineRegion.org
AdministrativeUnits	Administrative areas	DIVA-GIS
AdministrativeUnits	Military areas	
ProtectionAndConservation	National protected sites	CoCoNet
ProtectionAndConservation	International protected sites - SPAMI	CoCoNet
ProtectionAndConservation	International protected sites - UNESCO-MAB	CoCoNet
ProtectionAndConservation	International protected sites - UNESCO-Heritage	CoCoNet
ProtectionAndConservation	International protected sites - RAMSAR	CoCoNet
ProtectionAndConservation	International protected sites - Other	CoCoNet
ProtectionAndConservation	Natura 2000 sites	CoCoNet
ProtectionAndConservation	Fishing restricted areas - FRA, TFRA, ZPE, ZTB	
ProtectionAndConservation	Vulnerable areas, IBA, EBSA, etc	CoCoNet
ProtectionAndConservation	Proposed areas - OCEANA, ACCOBAMS, Greenpeace, CoCoNet	EMODnet

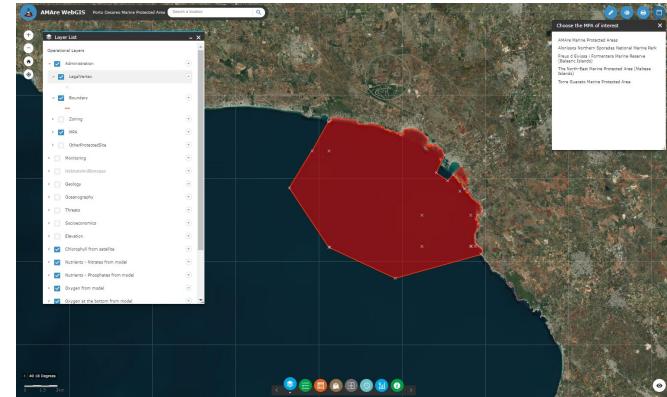
2. DATA MODEL



3. GEODATABASE



4. GEOPORTAL



5. METADATA CATALOGUE

The screenshot shows the Geoportal 1.2.5 interface. At the top, there are links for Accedi, Guida in linea, and Informazioni. Below is a search bar with fields for HOME, CERCA, and ESPLORA. The main area displays search results for 'Questo sito' and allows users to add records or clear the search. At the bottom, there is a map of Europe and the Mediterranean region with several countries labeled.

AMAre PLUS Products

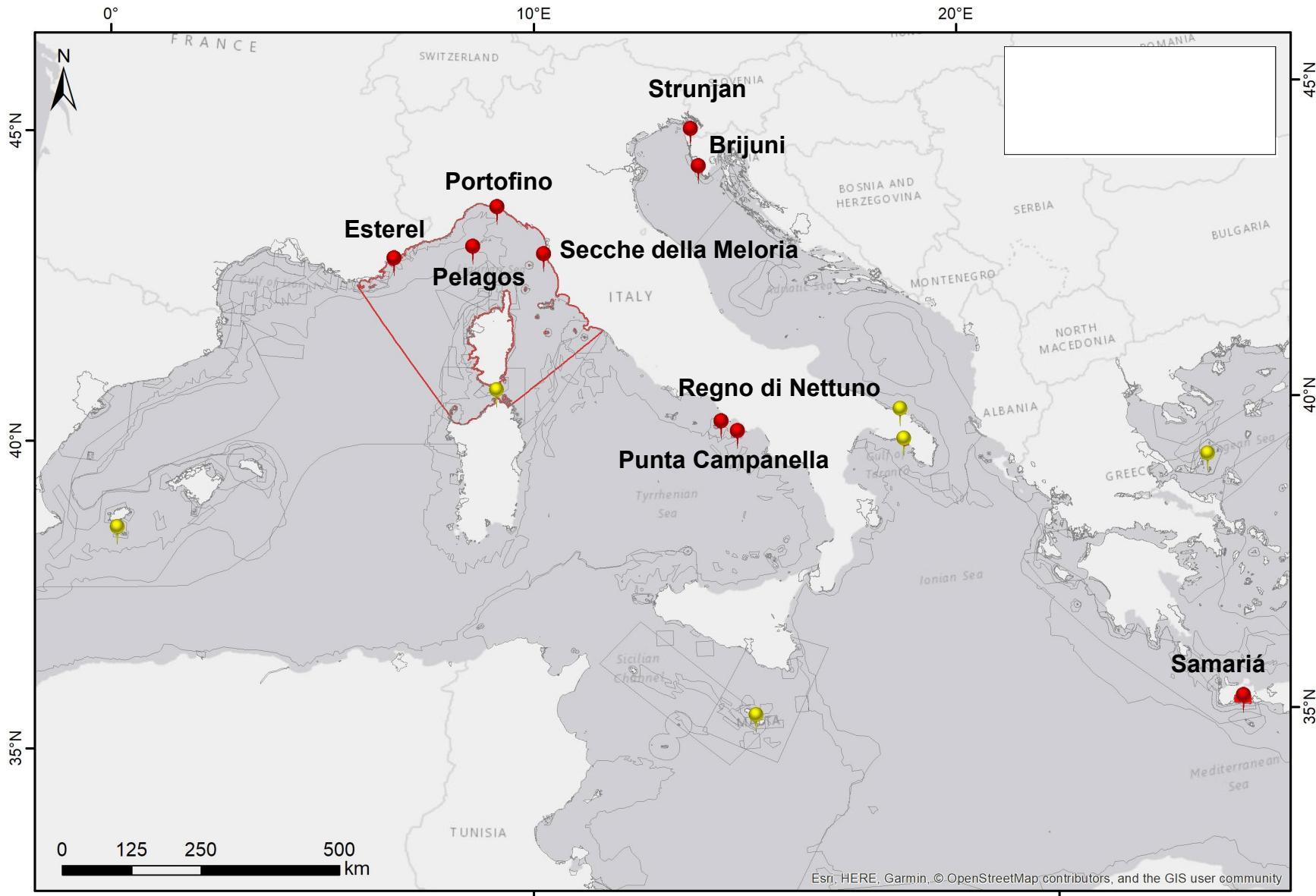
DATA COLLECTION



DATA MODEL



9 GEODATABASES



AMAre PLUS Products

AMAre

GO TO THE AMARE GEOPORTAL...

NEWS

The Stakeholder Workshop "Safeguarding the Marine Environment Together - Bridging Conservation and Stakeholder Uses in the NE Marine Protected Area" was organized in Malta by the Physical Oceanography...

04/06/2019

Webpage

AMAre
Geoportal+

MedPAN ←

WELCOME TO THE AMARE GEOPORTAL!

Please, start by choosing your MPA of interest..

OK

Choose the MPA of interest.

- Alonissos Northern Sporades National Marine Park
- Freus d'Elvissa i Formentera Marine Reserve (Balearic Islands)
- Porto Cesareo Marine Protected Area
- The North-East Marine Protected Area (Maltese Islands)
- Torre Guaceto Marine Protected Area

LIVE DEMO!