

# Mediterranean

# Strategic Project MED OSMOSIS Mediterranean governance

Strategic Maritime Surveillance and Safety issues

for

D. Panagopoulos - (Lead Partner - Special Service of European Union Structural Funds for the Ministry of Maritime Affairs and Insular Policy) on behalf of MED OSMoSIS Group

06-03-2022, Madrid | MED OSMoSIS Group

## **Objectives & Goals (1/2)**

#### A brief summary of objectives and goals of MEDOSMOSIS

#### **MED OSMoSIS**

Duration 35 months (1/11/19-30/9/22) 3.000.000,00 euros - ERDF (85%) for MS & IPA 10 Partners (9 MS, 1 IPA) & associated partners

- a core list of data (maritime navigation maps, urgent nautical information, maritime limits and their standards (IHO)),
- a list of platforms existing in the partnership (to test their availability and interoperability, test the data, including safety and environment)
- Collected or thematically adjusted data in order to support further activities and pilots

(Greece - Spain - France- Itally)



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## **Objectives & Goals (2/2)**



- Highlight good practices and foster collaborations and synergies among National, Regional and local Authorities and organizations
- a Memorandum of Understanding
- EU, international or regional regulations, policies & reccomendations

(European Cohesion Policy, CISE, IMP, IMS, Blue Growth Economy, EU Climate Change Policy 2030, EU Civil Protection Mechanism, European Green Deal, EUSAIR, PP (2021-2027) etc.)

- Added Value: Institutional capacity, interoperability, synergy establishment & high concentration of observation capabilities
- **Recognising main gaps/ needs analysis** : Interoperability, Open and compliant Data, Improvement of surveillance Data exhange, compatible & integrated applications and reliable tools & networks
- ✓ Architecture of advanced ICT & satellite systems/technologies and networks for establishment of platforms
- ✓ Increasing the complementarity between actors and systems of Maritime Surveillance
- Main Objectives:
- I Multilevel govermental cooperation, safe roadmap in both bottom up and top down procedures, transnational MoU
- Exploiting maritime surveillance technologies for rescue, safety & security at transnational level
- Sustainable alliance for maritime safety & security in the Mediterranean
- Managing gaps & recognizing opportunities within the integrated maritime surveillance
- Increasing interoperability and sharing of data
- Improvement of surveillance capacity (plenitude & reliability of data)

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## Summary



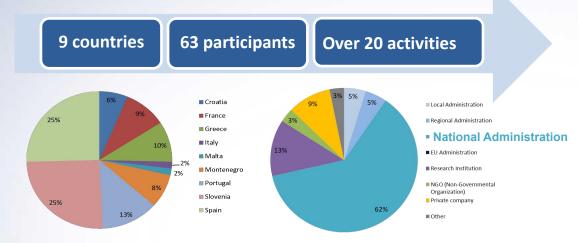
- Studying activities Main Results
- Pilot Studies and Actions
   Main Results
- Scheduled Capitalisation and Transferring events
  - project longevity

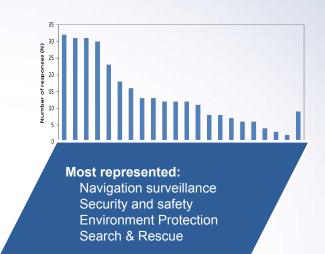


#### Studying activities – Main Result: Global Report



#### Studying field survey in Maritime Surveillance





#### **Results & contribution in Maritime Surveillance**

- Significant step to **Understanding** maritime surveillance field: useful picture of MS Governance, activities, stakeholders, platforms
- o Identification of **limitations** : data access, sharing, interoperability nationally & internationally
- Highlight **need for:** 
  - Increased **COOPERATION** between MS actors
  - Communication around tools / networks / standards
  - Information on interactions with MSP

Report available on med-osmosis.interreg-med.eu

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#### Studying activities – Main Result: Data Collection - Data Compilation/Sharing



# Datasets related to maritime surveillance

#### Core list of data:

maritime navigation maps, urgent nautical information, maritime limits and their standards, web services

#### List of platforms

Thematic data to support pilot activities

#### Additional Datasets

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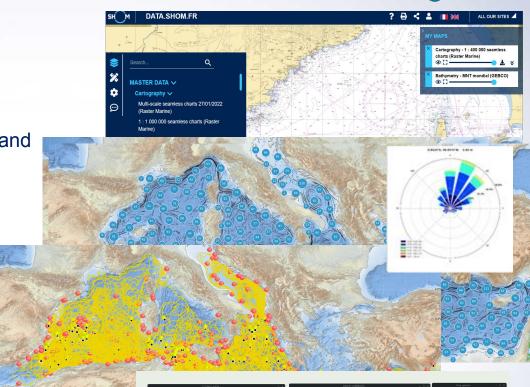
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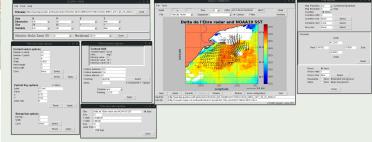
**Climatological Atlas of currents** 

#### **Drifting objects Database**

SAR and Pollution assessement, Ecological Connectivity

**Tools: COSMO-VIEW, WebGIS Portal** 





#### Pilot Studies and Actions – Main Results (1/3) Data Portals



#### Web-GIS Interface:

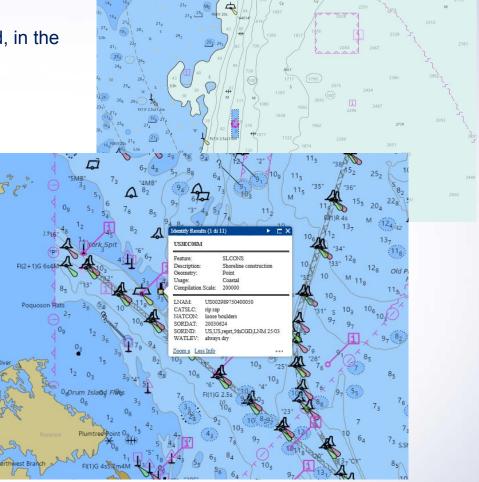
Nautical charts according IHO S-57 format and, in the future, in the IHO S-100 format.

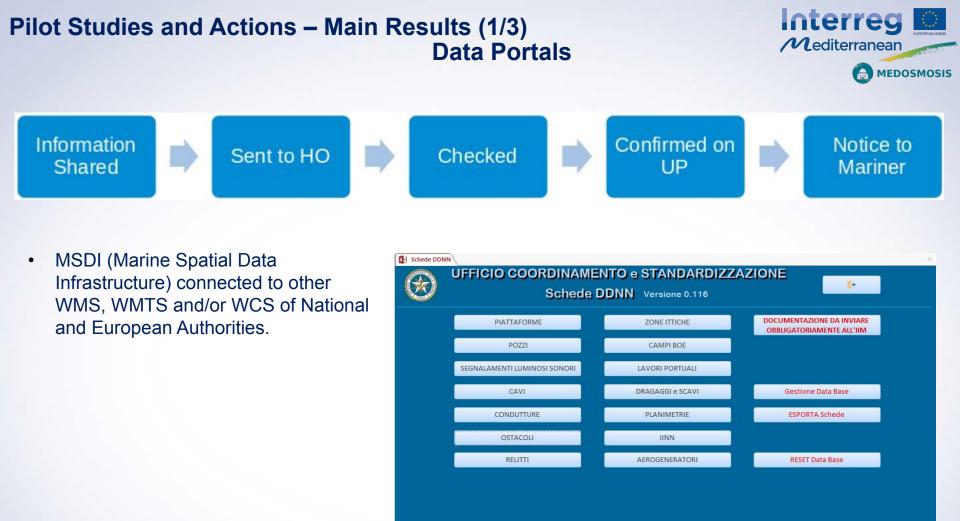
#### S-57 Dataset

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Coast Guard offices Port Authorities Marine Area Operators Oil and/or Gas Companies Research Institutes National Authorities All other stakeholders



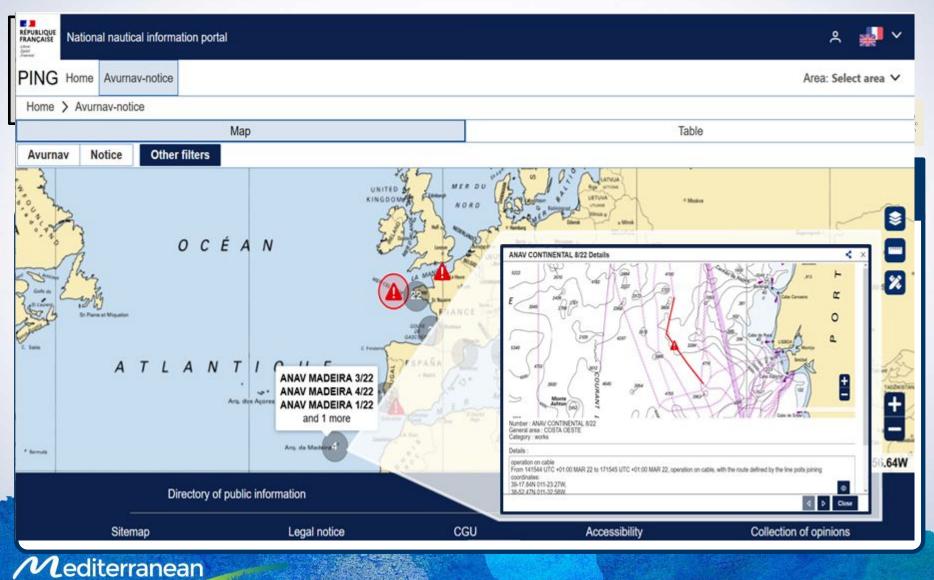


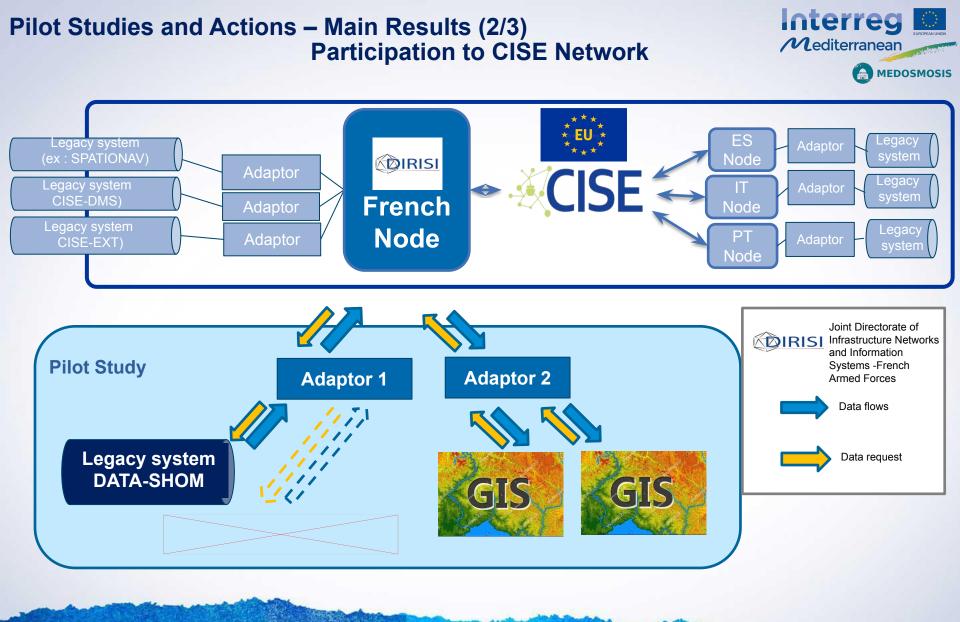


#### Pilot Studies and Actions – Main Results (2/3) Navigation Warning



#### S-124 API Nav Warnings: Web production & diffusion





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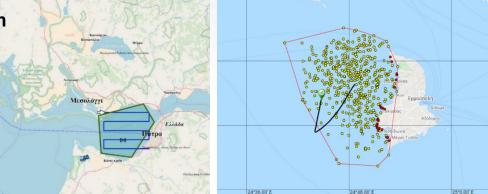
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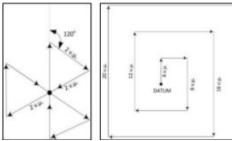
### Pilot Studies and Actions – Main Results (3/3) Searh and Rescue Activities

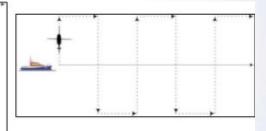
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- Integration of SAR tools (drift modeling, search planning) into webGIS operational platform
- To assess and compare the effectiveness of different available standalone software
- To correlate data from other sources (T-AIS, S-AIS, LRIT, VMS) to enrich decision-making process during SAR operations
- Integration of meteorological and oceanographic data
- To enhance personnel's expertise through training exercise & pilot experiments
- To improve collaboration with external organizations

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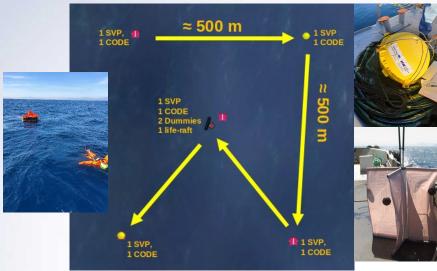






### **Pilot Studies and Actions – Main Results (3/3)** SAR Exercise 02/2022





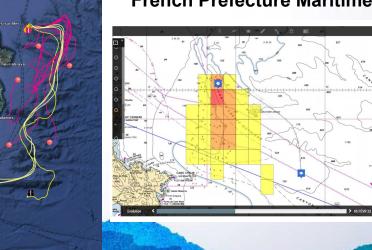
**Design and Strategy** 

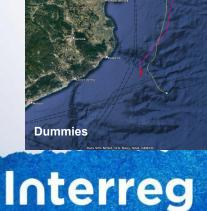


Main Results



**Operational Forecasting** from **French Prefecture Maritime** 







All



#### Training & Events regarding Pilot Studies and Tools introduced/developed through the project





Project co-financed by the European Regional Development Fund

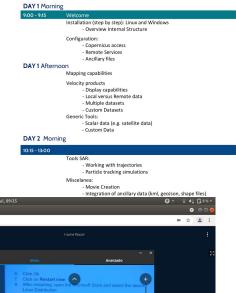


# **COSMO VIEW** for Maritime Surveillance

### 6<sup>th</sup>.7<sup>th</sup> July 2021

The COSMO-VIEW is an open source interactive tool developed in Python conceived to work with able to access multiple sources of data both lob pays particular attention to ocean velocity fields the purpose of providing a first assessment on many ocean forecasting products (e.g. Copen marine observations (e.g. satellite images, rad met-ocean buoys). Its open source character far data service (WMS, WFS) and/or in most usu geoJSON, csv files). The various GUI interfaces se of the maps and to launch other applications suu to compute single or cloud-particle trajectorie differences among different products. COSM offline provided the data is saved locally. In this for

hbb09babbboodes.com.csic.es/html5client/ioir



**COSMO VIEW** for Maritime Surveillance

#### Training objective:

The main objective of the training is to introduce the COSMO VIEW tool developed by the ICM-CSIC mainly framework of the COSMO project (Ocean Currents and Safety in the Marine Environment) and MEDOSM (ref 6119) project.

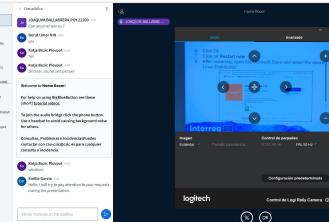
The training course is free of

# Interface Interface

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6th . 7th July 2021

## 

Training & Events regarding Pilot Studies and Tools introduced/developed through the project





Cross border Online Workshop (Zoom Multilingual) France-Italy-Monaco: Interaction between Maritime Spatial Planning & Maritime surveillance 3<sup>rd</sup> February 2022 - 9.30AM (CET)

Agenda

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#### France

ORSEC plan in the Mediterranean – Mediterranean Maritime Prefecture – Antoine Ertcheid MEDOSMoSIS Pilot study: PING Navigation Warnings S-124 API - Shom– Yves Le Franc

#### Italy

Organisation of Maritime surveillance activities – Guardia Costiera CF (CP) Tommaso Pisino MEDOSMoSIS Pilot study: UP Navigation Charts update application Hydrographic Institute - Cap. Nunziante Langelotto



#### The solution: Data aggregation (2/2)

International Efforts

- Interoperability of national systems
- Cooperation among Agencies (international cooperating bodies address this issue as required, eg. EU Directives, IMO resolutions, etc.)
- Standardization Exchange protocols/formats (standards are evolving to promote interoperability and common procedures for data manipulation)
- Validity of data (services vs static exchange of data)
- Confidentiality concerns and obstacles (more difficult to overcome)

Examples

- INSPIRE- Infrastructure for spatial information
- Maritime Spatial Planning (MSP)
- EMSA digital services catalogue, most importantly SEG Platform



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#### **Capitalisation & Transferring**

#### Regional Stakeholder events

Jornada per a la Governança Marítima a la Mediterrània: Informació *i Eines*. Barcelona 17/06/2021

**MSP & Maritime security and surveillance in the Mediterranean,** France-Italy-Monaco Telematic, 03/02/2022

**European Stakeholder events** 

France

Northern

**Studying maritime surveillance data in the Mediterranean** MEDOSMOSIS workshop, Telematic, 20/01/2022





#### Scheduled Capitalisation and Transferring events – future results – project longevity

- Four (4) Events for capitalization and Transferring with their corresponding reports
- Memorandum of Understanding
  - Two (2) Policy Recommendations produced on Maritime Surveillance based on the project's achieved know-how
  - A Med OSMoSIS forum-blogspot to interact with actors in Maritime Surveillance



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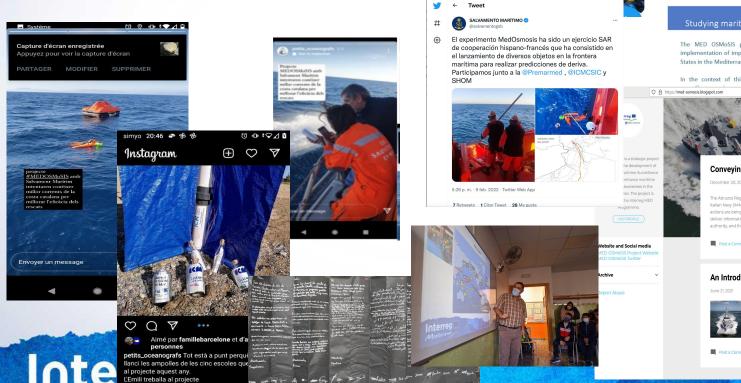
#### **Communication & Outreach**

#### **NEWSLETTER 2+2**

BLOG: https://med-osmosis.blogspot.com/

#### 61 tweets: https://twitter.com/medosmosis

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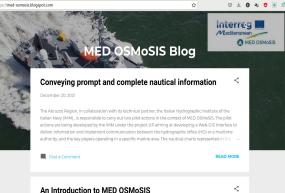
#### Newsletter #2 edition – January 2022



#### Save the date Studying maritime surveillance data in the Mediterranean

The MED OSMoSIS project, funded by the Interreg MED programme, promotes the implementation of improved governance at sea and data exchange among different Member States in the Mediterranean

In the context of this project, following a survey conducted on the field of maritime





nent of a regional/local smart plug-in capability supporting interoperable and

READ MORE

Mediterranean April 6th, 2022, Salón de Actos, Paseo de la Castellana 162, Ministry of Finance and Civil Service, Madrid

1 Retwitteado por ti

locations.

#MEDOSMoSIS

MED OSMoSIS @MedOs... · 6h The pilot study in Spanish and

Our partners from the Institute of

testing solutions for Search and Rescue operations in transborder

French waters is underway!

Marine Sciences - CSIC are

#MadeInMED #Governance



# THANK you for your attention





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# The MED OSMoSIS Group

(Emilio-Armelle-Stratos-Athina-Camillo-Christos-Laura-Lari-Clara-Pablo-Katja-Jose-Paola-Lorenzo-Maria...

...Fabio-Corine-Carlos-Eric-Adeline-Gaidic-Martina-Miguel-Ivica-Andrej-Milena-Ivana-Pedro-Dimitra-Alexis-Cincia-Gasper-Ivica-Marijan-Ana-Jure...

Helena-Pedro-Andrej-Pasquale-Ruiz-Jose Manuel-Fotini-Sotiris-Tina-Francesco-Irene-Dimitrios)