

quietMED

A joint programme on underwater noise
(D11) for the Mediterranean Sea

Project Overview

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3. General objective
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1. Scope of the project

QUIETMED is a project funded from DG Environment (ENV), European Commission.



Coordinator	Participant short name	Country	More info
Centro Tecnológico Naval y del Mar	CTN	Spain	www.ctnaval.com
Partners			
Instituto Español de Oceanografía	IEO	Spain	www.ieo.es
Universitat Politècnica de València	UPV	Spain	www.upv.es
Service Hydrographique et Océanographique de la Marine	SHOM	France	www.shom.fr
Istituto Superiore per la Protezione e la Ricerca Ambientale	ISPRA	Italy	www.isprambiente.gov.it/en
Inštitut za vode Republike Slovenije/Institute for water of the Republic of Slovenia	IZVRS	Slovenia	www.izvrs.si
Permanent Secretariat of the Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea and Contiguous Atlantic Area	ACCOBAMS	Monaco	www.accobams.org
The Conservation Biology Research Group, the University of Malta	UoM	Malta	www.um.edu.mt
Institute of Oceanography and Fisheries	IOF	Croatia	www.izor.hr
Foundation for Research and Technology - Hellas	FORTH	Greece	www.forth.gr

Members of:

Technical
Sub-Group on
Underwater Noise
TG Noise

ACCOBAMS
working group on
noise

ICG Noise of
OSPAR

Joint CMS/
ACCOBAMS/
ASCOBANS

Direct
implementation of
the MFSD

General objective

To improve the level of coherence and the comparability of the implementation of the Second Cycle of the Marine Directive (MSFD) as regards **Descriptor 11- underwater noise** implementation in the **Mediterranean Sea Basin Region** by enhancing cooperation among Member States (MS), the Barcelona Convention and other third no-EU countries.

General objective

- Common approaches to GES
- The definition of thresholds.
- Guidance on methodologies.
- Policy recommendations for the review of national assessment and the environmental targets.
- A regional joint register on impulsive underwater noise will be set.



Specific objectives

- Achieve a **common understanding and GES assessment** methodology (both impulsive and continuous noise) in the Mediterranean Sea .
- Develop a set of **recommendations** to the MSFD competent authorities for Descriptor 11- Underwater Noise in a consistent manner taking into account the Mediterranean Sea Region approach.
- Develop a **common approach to the definition of threshold** at MED level (in link with TG Noise future work and revised decision requirements) and impact indicators.
- Coordinate with the **Regional Sea Convention (the Barcelona Convention)** to ensure the consistency of the project with the implementation of the EcAp process.

Specific Objectives

- Promote and facilitate the coordination of underwater noise monitoring at the Mediterranean Sea level with **third countries** of the region.
- Establish technical **guidelines** and recommend **methodologies** for the underwater noise monitoring.
- Implement a **joint register of impulsive noise and hotspot map** at Mediterranean Sea Region.
- Enhance collaboration among a wide network of stakeholders through the dissemination of the project results, knowledge share and networking.

Expected results

1. A **common understanding** of GES determination.
2. **Recommendations to national authorities** for update the national assessment reported in 2012 taking into account the regional approach.
3. Recommendation to national authorities for the establishment of national environmental targets.
4. The **capacity building with non-EU countries** contracting parties of Barcelona Convention for underwater noise monitoring.
5. A **common approach to hardware calibration, handling sensors and deployment** for underwater noise monitoring in the Mediterranean Sea.

Expected results

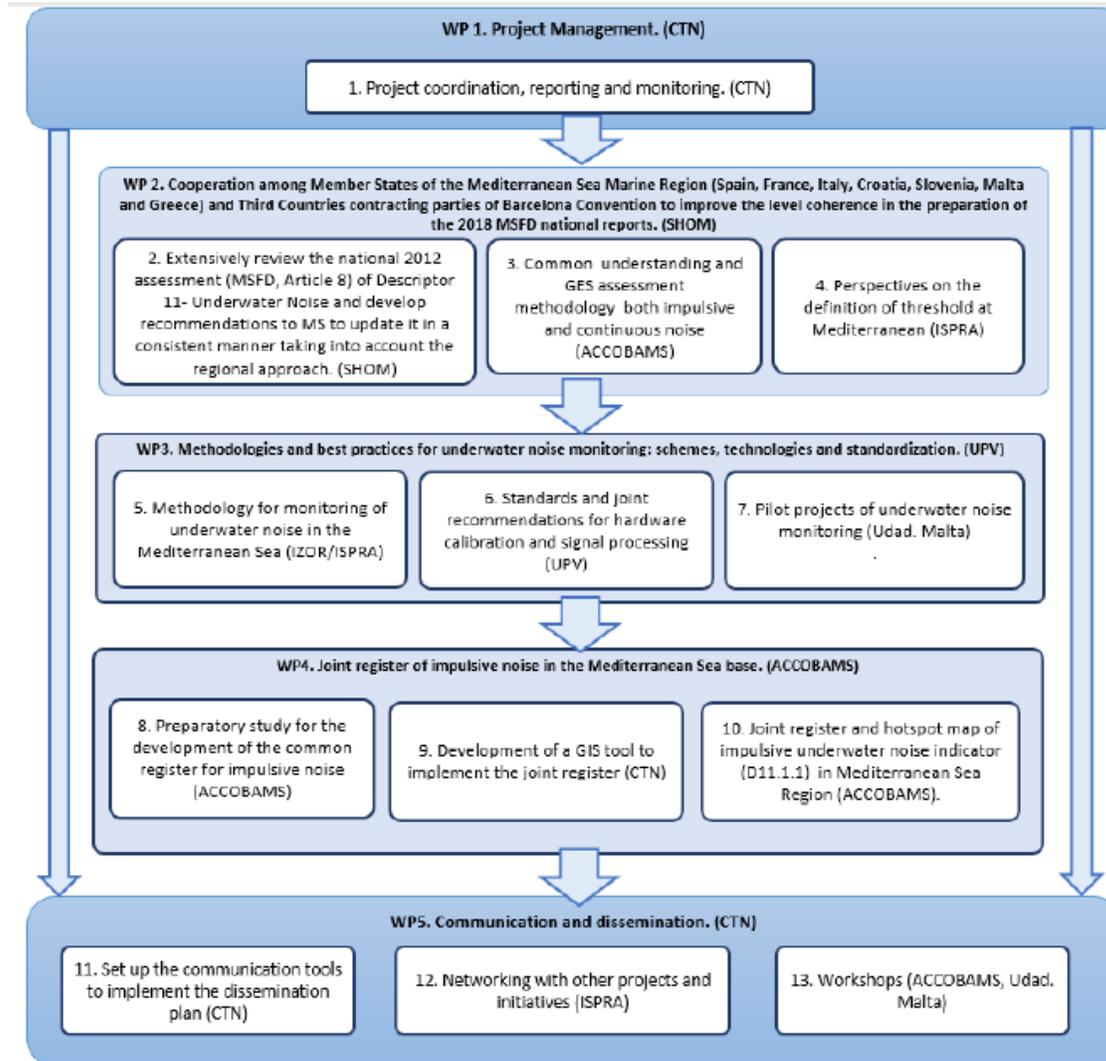
6. Common approach on **modelling/mapping** underwater continuous noise.
7. Recommendations for the most adequate **pre-processing algorithms to detect any data inconsistencies** or for extracting the 1/3 of octave bands are some examples of what should be analysed. In addition some feedback or techniques to check for consistency of the noise indicators should be established.
8. Recommendation for the **methodology to set up the monitoring** of continuous underwater noise according the Commission Decision 2017/848/EU and TG noise guidelines.
9. Recommendation for the **methodology to set up the national registers of impulsive noise** according the Commission Decision 2017/848/EU and Barcelona RSC/ACCOBAMS premises.

Expected results

10. Deployments of **noise measuring equipment** and one **modelling/mapping exercise** in the Mediterranean Sea (Malta, Crete and Cabrera)
11. A **joint register of impulsive noise sources** to build indicator according to Commission Decision 2017/848/EU and ACCOBAMS premises. The joint register will contain data of activities performed during year 2017 in Spain, France, Italy, Slovenia, Croatia, Malta and Greece.
12. A **hotspot map** of impulsive noise sources in 2017 in the Mediterranean Sea Basin.

Expected results.

- 13. Networking with other projects and initiatives.
- 14. Knowledge transfer.
- 15. Bilateral meetings.
- 16. Project results dissemination at regional and subregional level.
- 17. Workshop on dedicated to experts (participants from national research institutes).
- 18. Workshop dedicated to representatives of non-EU countries (participants from central administrations).



WP 1. Project Management

Objective:

To ensure that the project is executed according to the contract, and aligned with its objectives.

ACTIVITY 1

Project coordination, reporting and monitoring

WP 2. Cooperation to improve the level coherence in the preparation of the 2018 MSFD national reports.

Objective:

Promoting and facilitating the coordination of underwater noise monitoring at the Mediterranean Sea level with third countries of the region (MSFD Article 6)

ACTIVITY 2

Extensively review the national 2010 assessment of D11 underwater noise and develop recommendations to MS to update it in a consistent manner taking into account the regional approach

ACTIVITY 3

Common understanding and GES Assessment methodology both impulsive and continuous noise

ACTIVITY 4

Perspectives on definition of thresholds

WP 3. Cooperation to improve the level coherence in the preparation of the 2018 MSFD national reports.

Objective:

Establish guidelines on how to perform sensor calibration and on the best signal processing algorithms for the preprocessing of the data and for obtaining the ambient noise indicators. Test and validate the recommended monitoring schemes by performing the pilot monitoring.

ACTIVITY 5

Methodology for monitoring of underwater noise in the Mediterranean Sea

ACTIVITY 6

Standards and recommendations for hardware calibration and signal processing

ACTIVITY 7

Pilot projects of underwater noise monitoring

WP 3. Cooperation to improve the level coherence in the preparation of the 2018 MSFD national reports.

3 Pilot projects



WP 4. Joint register of impulsive noise in the Mediterranean Sea Basin

Objective:

Implement a Joint register of impulsive noise hotspot map and register in the Mediterranean Sea. Impulsive noise national data gathering and joint processing at Regional Sea basin level.

ACTIVITY 8

Preparatory study for the development of the common register for impulsive noise

ACTIVITY 9

Development of a GIS register tool to implement the Joint register

ACTIVITY 10

Joint register and hotspot map of the impulsive underwater noise indicator in the Mediterranean Sea Region

WP 5. Communication and dissemination

Objective:

Dissemination of the project results, capacity building with third parties non EU-countries of the Barcelona Regional Sea Convention, knowledge share and networking and collaboration with other initiatives.

ACTIVITY 11

Set up communication tools to implement the dissemination plan

ACTIVITY 12

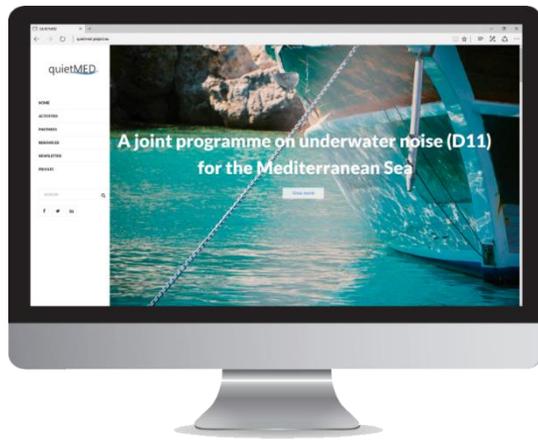
Networking with other projects and initiatives

ACTIVITY 13

Workshop with third countries

WP 5. Communication and dissemination

Communication tools



WEBPAGE:

www.quietmed-project.eu



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Thank you for your attention

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