

ISPRA

Istituto Superiore per la Protezione
e la Ricerca Ambientale



CIRIAF

Centro Interuniversitario
di Ricerca sull'Inquinamento
e sull'Ambiente - "Mauro Fellì"



Autorità di Sistema Portuale
del Mar Tirreno Settentrionale



Puerto de Melilla

Autoridad Portuaria de Melilla



Advanced Noise Control strategies in HarbOuR

Presentation of the Project ANCHOR LIFE

Giuseppe Marsico

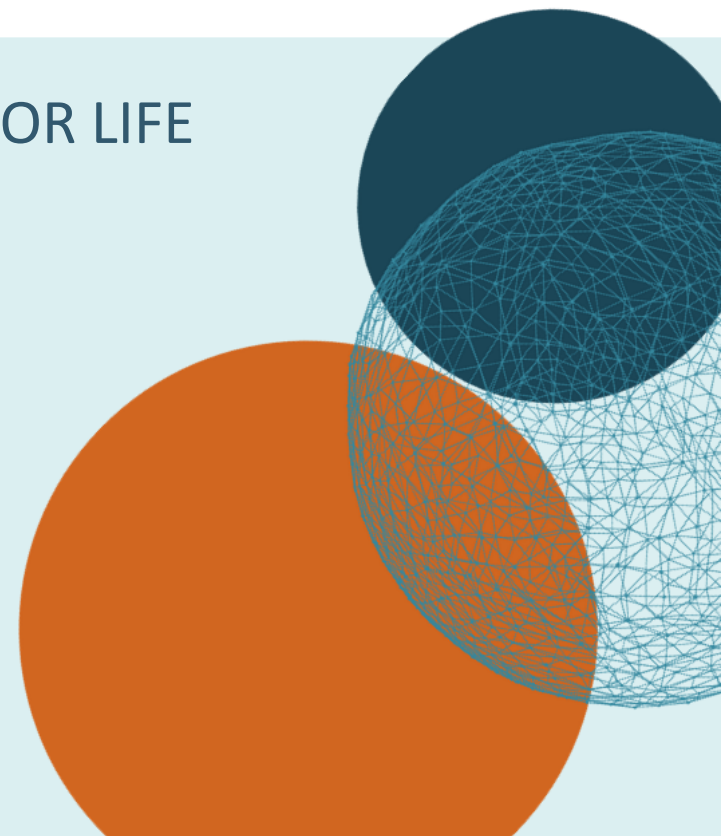
Project Manager

ISPRA – National Institute for Environmental Protection and Research

giuseppe.marsico@isprambiente.it

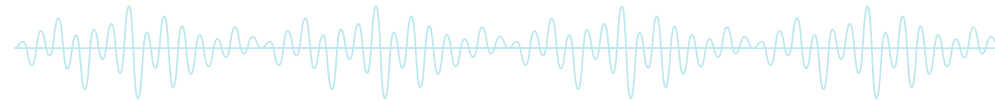
Roma

30th March 2021



A decorative graphic on the left side of the page consisting of three overlapping spheres. The top-left sphere is dark blue and solid. The top-right sphere is light blue and wireframe. The bottom sphere is orange and solid.

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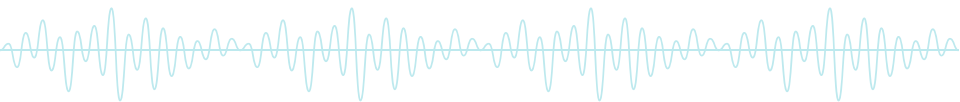


1. Overall objectives of ANCHOR LIFE

Communicating and **disseminating** research outcomes on noise pollution generated by urban ports thus affecting nearby territories and communities

Raising awareness of decision makers and professionals representing Port Authorities, Public Administrations, Private Sector Operators, Academia and Citizens living in port cities

Engaging stakeholders towards mobilization and **replication** in all European Countries.



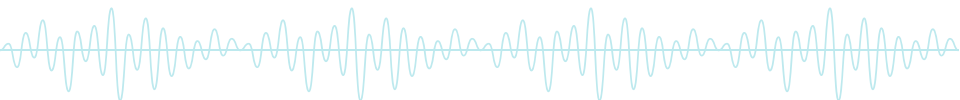


2. Main outcomes

Developing an incentive scheme for the private sector operating in the ports of Livorno, Piombino and Portoferraio (Italy), **“Figures of Merit”**;

Designing and installing a **Smart Port Noise Monitoring System (SPNMS)** in the port of Patras (Greece)

Developing updated **Port Noise Impact Assessment (PNIA) Guidelines** for the definition of a common approach in port noise monitoring and assessment, also considering the new algorithms defined by the European Directive 2015/996. Port of Melilla (Spain)



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3. Replication objectives

Engaging stakeholders for direct involvement to perform consistent **environmental assessment** and **action planning** for sustainable development

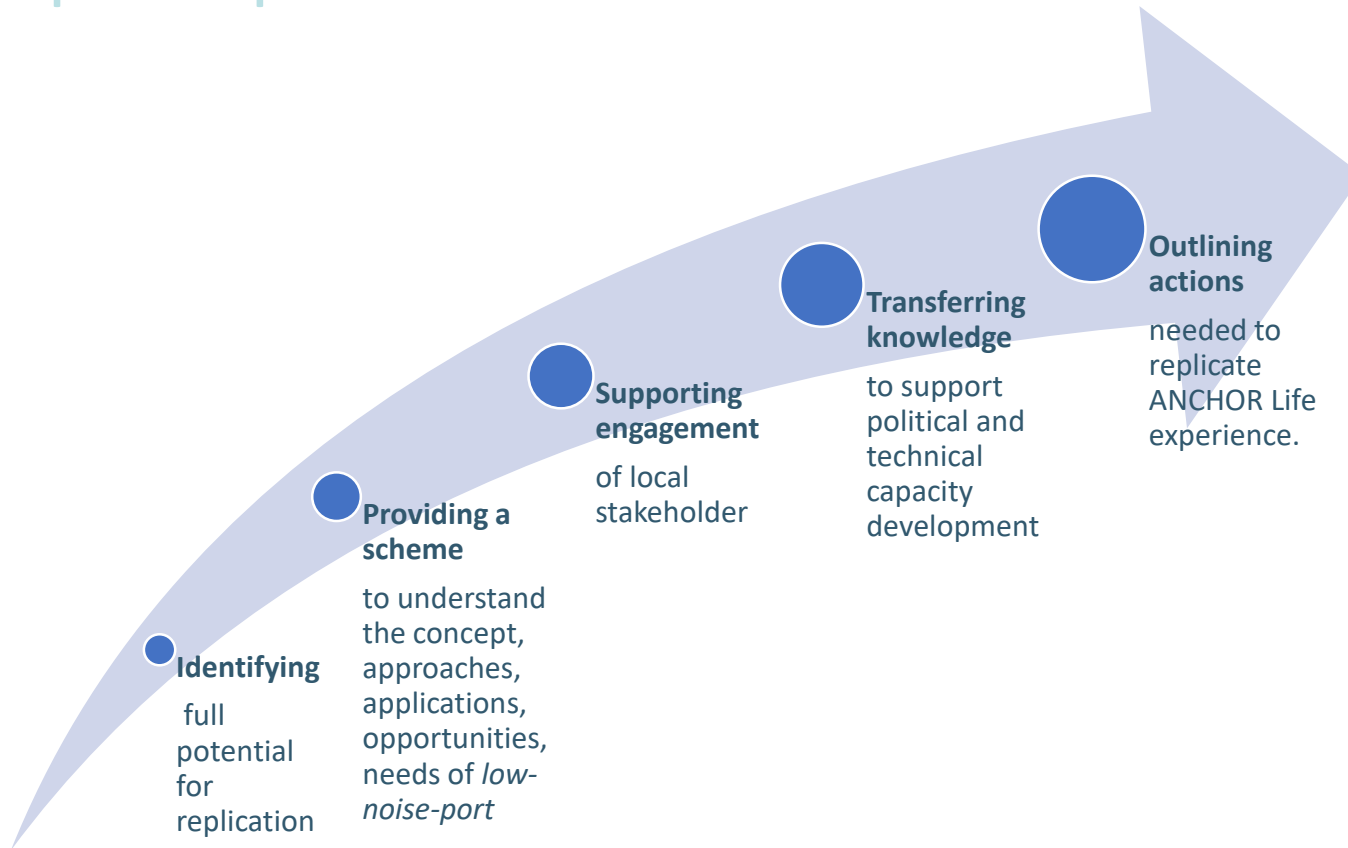
Building, disseminating and replicating governance tools for port noise management

Transferring knowledge to the **“ANCHOR Followers’ Platform”**, a growing group of port management related stakeholders

Evaluating the effectiveness of this dissemination process through a set of Communication & Dissemination KPIs.



4. Replication path





5. ANCHOR LIFE Webinars: objectives

Disseminating operational knowledge to a wide community of stakeholders at EU level, in the areas of:

- a) Policy making***
- b) Technical-regulatory***
- c) Smart technology***





6. Target Audience

ANCHOR Followers Platform (as of today):

Port Authorities: (3)

Municipalities and their associations (3)

Associations of private sector operators (1)

Chambers of commerce (1)

Regional environmental protection agencies (1)

Non-European local governments (1)

Long term audience:

Designated competent authorities and their affiliate entities in EU Member States.*

** Cfr. "Evaluation of Directive 2002/49/EC relating to the assessment and management of environmental noise Final Report – Country Fiches", 2016*



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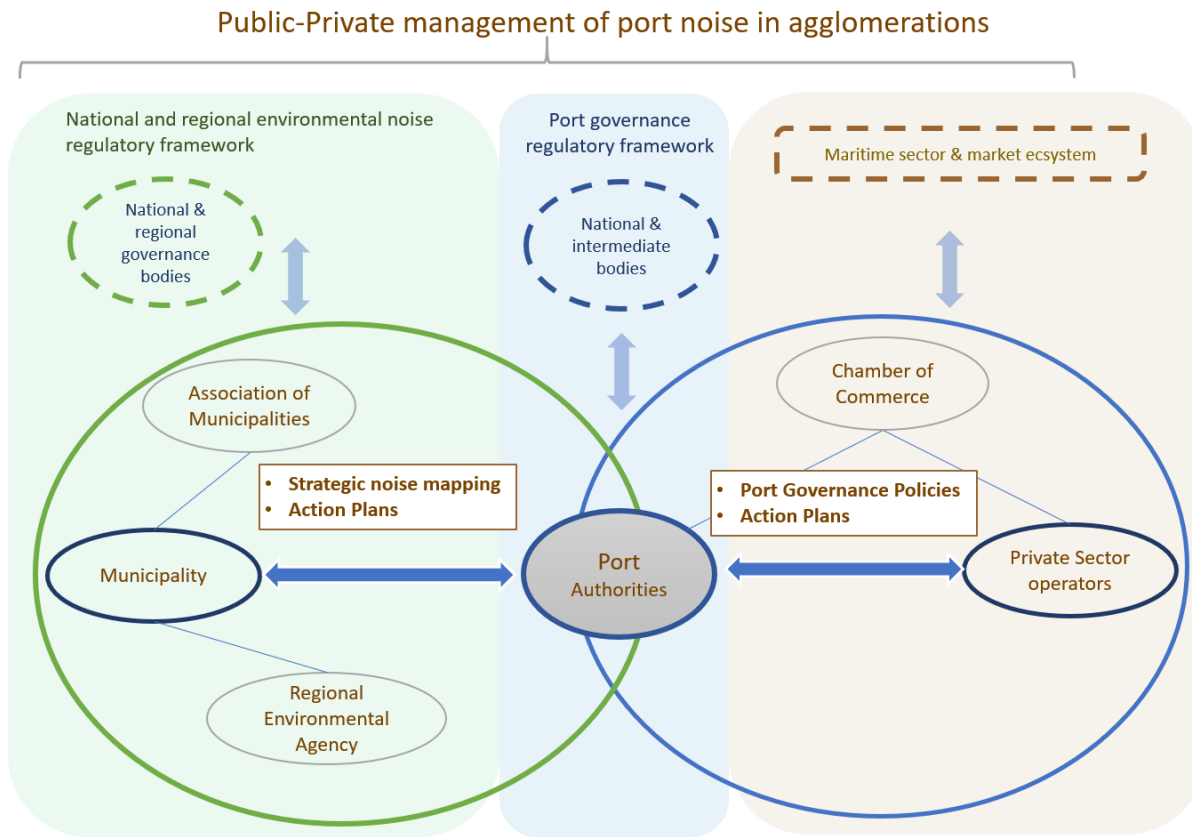
7. Background framework: conceptualisation of stakeholders relative positioning

Port noise management is a multi-stakeholder process, END directive stimulates public-private territorial management.

Port Authorities are at the center of strategic action. Noise pollution management in agglomerations such as port cities implies:

- National, regional or intermediate regulatory frameworks by sector (END directive in member states, port governance, maritime sector and maritime business ecosystems).
- Implementation of the **Strategic Noise Mapping** and **Action Plans**, as a result of coordinated noise management activities in *agglomerations*, linking Municipalities, Port Authorities and the private sector, Port Authorities acting as an interface between urban planning and investment.

8. Conceptual Framework: diagram



9. Drawing key messages from ANCHOR LIFE structured knowledge

| | Action B.1 – Figures of Merit | Action B.2 – SPNMS | Action B.3 - PNIA |
|---|---|--|--|
| <p>PRIMARY LEVEL (TECHNICAL) : Analysis focused on company employees, as individuals or as members of specific production groups.</p> | <p><u>Know that:</u> Implementing the “Figures of Merit” scheme involves multidisciplinary management and technical-economic analysis skills</p> <p><u>Know how:</u> To define technical-scientific competences to integrate noise mapping with the analysis of main issues affecting port noise and port competitiveness To apply a methodology for writing a “Analysis of the impact of noise on port competitiveness and Proposal on port concession policy”</p> | <p><u>Know that:</u> Creating a s SPNMS is an effective assessment, communication and interaction tool that allows to perform advanced diagnosis and control of sound pressure data. In conjunction with a Noise Map, a SNPMS alerts both citizen and authority of the possibility of an acoustic impact in residential areas in proximity.</p> <p><u>Know how:</u> To design the technical features of a SPNMS and plan for its purchase, installation and operation of all its components.</p> | <p><u>Know that:</u> difference between the outcomes of a noise propagation calculation performed with the algorithms defined by the 2015/996 Directive and the one of the old Annex II of the END may be relevant.</p> <p><u>Know how:</u> To perform an updated procedure to collect input data for noise mapping activities in ports, in compliance with the END taking into account the updates contained in the 2015/996 Directive.</p> |
| <p>SECONDARY LEVEL (ORGANISATIONAL): Analysis focused on the organization level and its needs for adaptation and change to achieve strategic objectives.</p> | <p><u>Know that:</u> implementation of an incentive scheme should be bound to measurable outcomes and positive impact can be forecast is a governance process involving sequenced decisions by coordinated stakeholders and office bearers.</p> <p><u>Know how:</u> to analyse the process in phases and how to conduct a management process aiming at achieving actual noise reduction goals</p> | <p><u>Know that:</u> A SPNMS can be a lean and powerful tool to improve communication between port authorities and territorial stakeholders in a dynamic way.</p> <p><u>Know how:</u> To plan for and to set up a SPNMS allowing co-management of noise emission jointly by port-authority, private sector operators and local communities.</p> | <p><u>Know that:</u> the realization of a noise mapping activity should not be separated from the realization of a noise action plan. If these two activities are performed together, the risk of incompatibilities between noise simulations and noise assessments will be minimum.</p> <p><u>Know how:</u> to plan and carry out a Port Noise Impact Assessment in compliance with END.</p> |



10. Translating key messages into webinar modules

| Date | Leading partner | Title |
|------------------|-----------------|---|
| 10 February 2021 | ISPRA | Introduction Part 1: Project presentation, stakeholder engagement strategy Part 2: Presentation of individual modules |
| March 2021 | MUPAT | Intermediate meeting #2 in Patras Status update of the project |
| May 2021 | ADSPMTS | "Figures of Merit" for port noise governance. Planning effective incentives for private sector operators. Part 1: what it is, when it is fit, what are the challenges and the benefits. Case study: SWOT Analysis of the ANCHOR experience Part 2: Design of a "Figures of Merit" scheme step by step. |
| June 2021 | MPA/CIRIAF | Raising awareness and knowledge transfer on for port noise environmental impact assessment Part 1: NoMEPorts methodology and European Directive 2015/996/EC. Critical review and technical scientific conclusions. Part 2: Technical session on the "Updated Guidelines for a Port Noise Assessment method" |
| November 2021 | MUPAT | Developing participation through a Smart Port Noise Monitoring System Part 1: SWOT, Technical design and considerations Part 2: Stakeholders participation |
| January 2022 | ADSPMTS | "Figures of Merit" for port noise governance. Planning effective incentives for private sector operators. Part 1: what it is, when it is fit, what are the challenges and the benefits. Case study: SWOT Analysis of the ANCHOR experience Part 2: Design of a "Figures of Merit" scheme step by step. |
| February 2022 | MPA/CIRIAF | Raising awareness and knowledge transfer on for port noise environmental impact assessment Part 1: NoMEPorts methodology and European Directive 2015/996/EC. Critical review and technical scientific conclusions. Part 2: Technical session on the "Updated Guidelines for a Port Noise Assessment method" |
| March 2022 | MUPAT | Developing participation through a Smart Port Noise Monitoring System Part 1: SWOT, Technical design and considerations Part 2: Stakeholders participation |



11. Join us

Subscribe to the webinar cycle by contacting email.

A simple **Letter of Interest** will grant access to the bulk of documentation and to specific support.

www.anchorlife.eu



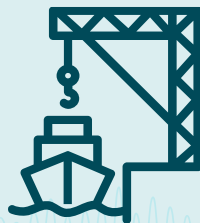
Giuseppe Marsico

Project Manager

ISPRA – National Institute for Environmental Protection and Research

giuseppe.marsico@isprambiente.it

Tel. +39 06 50072823



Thank you!