Advanced Noise Control strategies in HarbOuR

Presentation of the Project ANCHOR LIFE

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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)
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

- Identifying full potential for replication
- Providing a scheme to understand the concept, approaches, applications, opportunities, needs of low-noise-port
- Supporting engagement of local stakeholder
- Transferring knowledge to support political and technical capacity development
- Outlining actions needed to replicate ANCHOR Life experience.
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.*

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

Public-Private management of port noise in agglomerations

National and regional environmental noise regulatory framework
- National & regional governance bodies
- Association of Municipalities
- Regional Environmental Agency
- Strategic noise mapping
- Action Plans

Port governance regulatory framework
- National & intermediate bodies
- Port Authorities
- Port Governance Policies
- Action Plans

Private Sector operators
- Chamber of Commerce

Maritime sector & market ecosystem
### 9. Drawing key messages from ANCHOR LIFE structured knowledge

<table>
<thead>
<tr>
<th>PRIMARY LEVEL (TECHNICAL): Analysis focused on company employees, as individuals or as members of specific production groups.</th>
<th>Action B.1 – Figures of Merit</th>
<th>Action B.2 – SPNMS</th>
<th>Action B.3 - PNIA</th>
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<tbody>
<tr>
<td><strong>Know that:</strong> Implementing the “Figures of Merit” scheme involves multidisciplinary management and technical-economic analysis skills.</td>
<td><strong>Know that:</strong> Creating a 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 SPNMS alerts both citizen and authority of the possibility of an acoustic impact in residential areas in proximity.</td>
<td><strong>Know that:</strong> 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.</td>
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<td><strong>Know how:</strong> To define technical-scientific competences to integrate noise mapping with the analysis of main issues affecting port noise and port competitiveness.</td>
<td><strong>Know how:</strong> To design the technical features of a SPNMS and plan for its purchase, installation and operation of all its components.</td>
<td><strong>Know how:</strong> 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.</td>
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<tr>
<td>To apply a methodology for writing a “Analysis of the impact of noise on port competitiveness and Proposal on port concession policy.”</td>
<td><strong>Know how:</strong> To plan and carry out a Port Noise Impact Assessment in compliance with END.</td>
<td><strong>Know how:</strong> 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.</td>
<td></td>
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<tr>
<th>SECONDARY LEVEL (ORGANISATIONAL): Analysis focused on the organization level and its needs for adaptation and change to achieve strategic objectives.</th>
<th>Know that: 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.</th>
<th>Know that: A SPNMS can be a lean and powerful tool to improve communication between port authorities and territorial stakeholders in a dynamic way.</th>
<th>Know that: 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.</th>
</tr>
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<tbody>
<tr>
<td><strong>Know how:</strong> to analyse the process in phases and how to conduct a management process aiming at achieving actual noise reduction goals.</td>
<td><strong>Know how:</strong> 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.</td>
<td><strong>Know how:</strong> to plan and carry out a Port Noise Impact Assessment in compliance with END.</td>
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10. Translating key messages into webinar modules

<table>
<thead>
<tr>
<th>Date</th>
<th>Leading partner</th>
<th>Title</th>
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</table>
| 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 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 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

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Thank you!
ANCHOR LIFE Project 2\textsuperscript{nd} Monitoring Visit Teleconference 30/6/2020