



**LIFE17 GIE/IT/000562**

**ANCHOR Life**

**Advanced Noise Control strategies in HarbOuR**

## **Replication Plan**

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## 1. Executive Summary

In order to ensure the adaptability of ANCHOR Life objectives to various types of harbor, replicability is a key aspect. Within the project, action D1.3 is dedicated to replication issues. It is important to apply, adapting them, the activities and also the solutions experienced in Livorno, Melilla and Patras ports to other interested ports and to their own environment.



## 2. Introduction

The main purpose of this deliverable is to develop a model to assess the potential replication of solutions experimented within ANCHOR Life to other ports that are willing to improve their management and increase quality of life for citizens, lowering the noise coming from the harbour itself.

This document is addressed to the stakeholder entities that already showing their interest in ANCHOR Life project and other companies/entities, potentially interested in replicate the schemes and solutions experimented in the project.

The main challenges will be in proposing the solutions applied in Livorno, Melilla and Patras ports to various and specific types of harbor with their own size, activities, realities, etc.

The objectives of the Replication activities include:

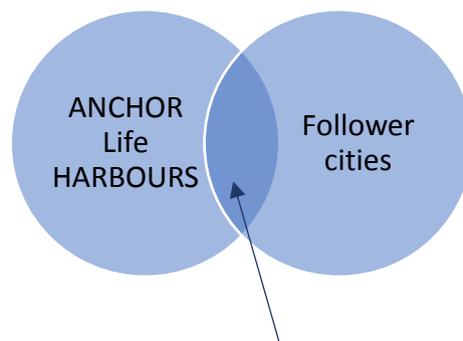
- Identify the full potential of replication on harbour level
- Provide a scheme to understand the concept, approaches, applications, opportunities, needs of low-noise-port
- Support related local stakeholder engagement
- Support the political and technical capacity development process through a knowledge transfer
- Identify and select actions needed to replicate the ANCHOR Life experience.

### 3. Replication approach

Sub-action D1.3 aims to ensure ANCHOR Life results transfer to decision-makers and other interested parties and how to replicate them in their context.

The Replication approach include:

- support related and necessary local stakeholder engagement
- support both political and technical capacity development process for identifying opportunities and needs for a knowledge transfer
- identify and select key actions needed to implement and replicate the solutions on a port/area level
- define a replication plan for the selected solutions in accordance to harbour priorities.



Replication activities for low-noise-ports

- low-noise-port vision
- integrated approaches
- good practices and lessons learned from ANCHOR Life

As stated, the core target of ANCHOR Life project is to raise awareness, communicate and disseminate the topic of noise coming from ports, impacting on the urban area which surround them and the correct governance tools to face it. This can be achieved throughout a shared approach, involving Port Authorities, Private companies but also citizens, local community groups, Public Administrations, Scientific community, thanks to a dissemination plan, events and meetings organized in function of the targeted audience.

To this extent, specific section (both on layman and scientific levels) on the website will be available and replicability session will be carried on during:



- International open workshops within the 5 project meetings as a key transfer method involving local, national and EU stakeholders from business, political authorities and citizens' groups
- Fora locally organised by each partner to transfer project lesson learnt and experience to national and local bodies who can take advantage from project results
- the Brussels final conference, a larger event on project final results and action recommendations, addressed to an EU audience
- at least four scientific papers will be submitted to peer-reviewed journals to transfer final results to an academic audience.

## 4. Follower platform and actions

For this purpose, a “Follower platform” will be set up, collecting all that actors of different nature interested and willing to learn more on the topic, to capitalize and make use of ANCHOR LIFE information, able to go on also after the project life as the “place” of information sharing on this specific issue.

As soon as this important tool will be set-up, then the project core actions will allow to raise the awareness of ANCHOR LIFE followers relating the long-term sustainable impact of ports from the noise pollution point of view with a flywheel effect on responsible of noise emission (private companies) or promoters of noise pollution reduction (Port Authorities or Public Administrations) commitment on virtuous governances, policies and approaches implementations. Plus, the transfer of already assessed good practices, replicable in port of every structure, characteristics and functions will allow an easily and effective application of noise control governances and operations for all those contexts wanting to improve their environmental sustainability from noise point of view.

On long-term, disseminate and stimulate port actors in reducing noise emission will have an important consequence on the health of exposed population, as demonstrated by studies conducted by WHO, EEA and others.

Plus, several studies demonstrated that a port with noise low emissions has many positive aspects, from a better quality of life to a sustainable development and an environmental friendliness. All these improvements will be a way for the ports to open up to the future and grow in a sustainable means.

For commercial activities, especially restaurants (with outdoors terraces), hotels and other accommodating facilities, the wellbeing of customers in a quiet environment (indoor and outdoor) is essential, giving the possibility to stay, relax and rest in a place with adequate noise level, leading to a practical and direct impact on the socio-economic situation of urban port areas.

Moreover, the protection of outdoor green areas results extremely important in urban areas allowing citizens to relax from the working activities, to stay in a closer contact with nature and to perform physical and social activities. Also, in this case, a good sound quality of the environmental is crucial for the area to fulfil the requirements of its function, as demonstrated by recent studies in the field of “soundscape” analysis and evaluation.

From the economic point of view, the dissemination of the “Figure of merit” policy (Action B1), flipping over the “Polluter pays” approach into “Virtuous saves”, allowing righteous Private Companies operating in ports to save money through the benefit of port dues reduction.

Plus, Guidelines on Noise monitoring and management in ports (Actions B2 and B3), will transfer capacity to port manager to evaluate the correct noise climate in harbours, identifying and classifying noise sources, suggesting to private stakeholders where focus their efforts and investments for noise reduction interventions. An accurate noise monitoring activity in ports will permit, in a sustainable way, also to plan future harbour expansions paying attention since first stages to noise emission control, allowing to avoid subsequent costs of following interventions that may not be completely effective.

Moreover, transnational cooperation within a partnership composed by different skilled actors (such as Port Authorities, Private stakeholders, PR and Communication firm and Research centres) lead to new visions and ways of working, broaden horizons and encourage companies or organisations to adopt improved operational approaches.

Also improving the noise climate in urban context results to have a direct positive impact on the estate market, since the European Environment Agency states that noise has a quantifiable effect on the value of an estate: in particular, it is stated that house prices lose 0.5% of their value per dB over Lden = 50-55 dB. According to this study, due to better environmental situation, house prices will increase.

Concerning local socio-economic effects, in addition to the aforementioned impacts, the ports of Livorno, Piombino, Portoferraio, Patras and Melilla will benefit from project activities in several ways.

The “Figure of Merit” (Action B1) policy applied by the Port Authority System of the Northern Tyrrhenian Sea is intended to encourage private companies to save money by reducing their noise emissions: reduced incomes for ADSPMTS will be compensated by the environmental benefits for all the citizens, which in turn will improve relationships between the port and the city. This action could be replicated also in other city context and with different activities in port areas.

The Smart Port Noise Monitoring System implemented in Patras port in Action B2 will inform citizens on noise levels to which they are exposed and on future noisy events, and in the meantime will receive complaints and comments from them concerning port noise emissions and disturbance. In this way citizens will be made more aware of their situation and port authority will be more conscious about the state of the environmental noise. Moreover, the system will involve also noise sources, informing them when threshold



levels of noise emissions are exceeded. The increased awareness of their impact on surrounding areas can stimulate more virtuous practices devoted to a reduction of noise emissions, leading to an improved sonic wellbeing for citizens. Data collected by the system can be used by port authority, private companies and other involved public administration to have a clear view of the noise time trend to better design future policies and actions. This action could be replicated in other areas, easily by individuating the boundary where to apply the monitoring system.

Melilla Port Authority is designing a port expansion. In Action B3 ANCHOR LIFE will assess how several design scenarios will impact the sound environment of surrounding areas and will guide decisionmakers to select the best design option in order to reduce as much as possible the detrimental noise effects. In the long term, after the realization of the port expansion, citizens will be exposed to lower sound pressure levels compared to those that in case of a not noise-guided design, with the consequent beneficial effects in terms of health effects and house value. This action could help to individuate different scenarios for every other port.

The involvement of stakeholders in monitoring and evaluation process is essential, playing all these actors a key role in the implementation of the project. Being directly implicated, in fact, they could give feedbacks, opinions and suggest useful directions in order to guide project implementation at best and what is relevant to them. Stakeholders such as Port Authorities, Private operators, Public Administration, group of citizens, etc. will be constantly contacted, interviewed and asked during meetings, events or workshop and through emails, on-line questionnaires, etc. in order to have their feedback and monitor their participation in the project, the effectiveness of dissemination actions, the impact of transferability and the carried on replication activities implemented.

As stated above, the interaction within the Follower Platform will be assured during each project meeting and also via Skype conference call during the duration of the project. The Project Coordinator will be in charge of invite the interested stakeholders in every circumstance.

Although other Follower Cities are not participants as case studies of the project, may have the interest to replicate ANCHOR Life solutions specifically fitting to their needs and they could made their own feasibility study about the possibilities to replication good lessons and technical solutions exemplified within the ANCHOR Life harbours.