



# AquaPLAN

Aquatic Pollution from Light and Anthropogenic Noise: **Management of Impacts on Biodiversity**

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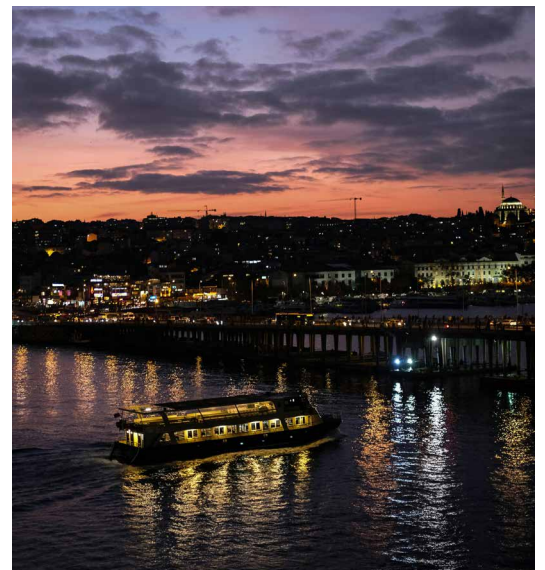
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## THE CHALLENGE

Recent decades have seen a **dramatic increase** in our understanding of **light and noise pollution (LNP)** impacts on aquatic biodiversity. A broad range of species are known to be impacted by either pollutant, which are globally widespread and occurring in all aquatic ecosystems from rivers and lakes to the seafloor. However, critical knowledge gaps still exist, a comprehensive overview of our understanding of LNP impacts in marine, freshwater and estuarine ecosystems is lacking, combined LNP impacts have been explored only conceptually and research effort on LNP varies among aquatic habitats.

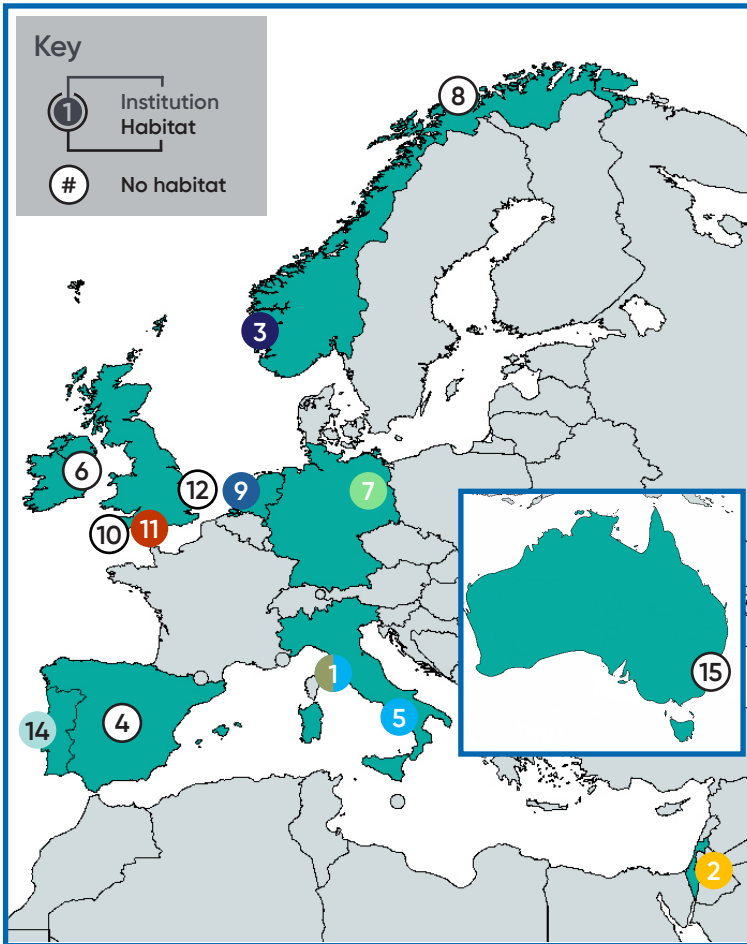
**AquaPLAN will quantify the combined impacts of LNP on aquatic biodiversity in European marine, freshwater and estuarine ecosystems, substantially improving our understanding of LNP prevalence, impacts and our ability to manage them.**



## AquaPLAN's consortium is working together to:

- **Assess the current state of perception** by regulators, local and regional decision makers of **LNP impacts** and their management
- Produce **harmonised monitoring protocols** (for measuring LNP, monitoring and manipulating their combined impacts) through collaborations between the experts on LNP
- Design **long-term ecological monitoring programmes** to capture any emerging impacts of LNP on aquatic biodiversity
- Quantify the **combined impacts of LNP** in six aquatic ecosystems, identifying the mechanisms leading to individual and combined impacts
- Build an **international and interdisciplinary networking** and cooperative capacity to assess, prevent and mitigate the combined impacts of LNP on aquatic biodiversity conservation
- Provide **critical decision support tools** for policy makers and environmental managers to assess the occurrence, impacts and management of LNP
- **Improve awareness of LNP**

# KEY AQUATIC HABITATS



Urban ponds & streams (Portugal)



Offshore (Norway)



Lakes (Germany)



Rivers (the Netherlands)



Coastal temperate intertidal (UK)



Coastal temperate subtidal (Italy)



Coastal oyster reefs (Italy)



Coastal tropical subtidal (Israel)

## CONSORTIUM

The AquaPLAN consortium is led by University of Pisa (UNIPi) in Italy and comprises of a multi-actor, transdisciplinary team of 15 organisations from 10 countries.

1  UNIVERSITÀ DI PISA	2  Bar-Ilan University	3  UNIVERSITETET I OSLO	4  CSIC	5  Stazione Zoologica Anton Dohrn Napoli
6  ERINN INNOVATION	7  IGB Leibniz Institute of Freshwater Ecology and Inland Fisheries	8  UiT The Arctic University of Norway	9  Universiteit Leiden	
10  PML   Plymouth Marine Laboratory	11  UNIVERSITY OF PLYMOUTH	12  Cefas	14  Ciências ULisboa	15  UNSW SYDNEY
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