



GRIMALDI GROUP

PRESS RELEASE

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The members of the European project Life-PIAQUO, led by Naval Group, have partnered with Italian shipping company Grimaldi Euromed

The European Life-PIAQUO project aims to reduce the impact of maritime traffic noise on marine ecosystems. It aims to develop concrete solutions for maritime transport, some of which will be tested on a Grimaldi ship.

A European project to protect underwater ecosystems

Since September 2019, Naval Group has been leading the European Life-PIAQUO project, which aims to reduce the impact of maritime traffic noise on marine ecosystems. Noise generated by maritime traffic has indeed increased over the last fifty years, due in particular to the increased number of ships and their tonnage which has significant negative consequences on underwater fauna.

Noise pollution is mainly caused by propellers and the phenomenon of cavitation. The Life-PIAQUO project therefore aims to propose concrete solutions for those involved in maritime transport, particularly in the Mediterranean. Naval Group's commitment to this project is part of its desire to strengthen the dynamic of respect for the environment within its activities.

Naval Group makes use of its expertise in acoustic discretion

The Life-PIAQUO project is led by Naval Group in cooperation with nine other French, Italian and Swedish partners: Fincantieri, Chorus, CETENA, Alseamar, Quiet Oceans, Kongsberg, Università di Genova, Bureau Veritas and ESI Group. Cooperation between these different partners, who are all at the forefront of their field, allows for faster innovation.

Naval Group brings to the project its expertise in underwater acoustic discretion, derived from decades of designing and maintaining warships and submarines that are among the quietest products ever made.

Signing of a partnership agreement with Grimaldi

Naval Group and its partners have recently signed a partnership agreement with the Grimaldi Group shipping company Grimaldi Euromed. This agreement marks an important milestone in the project which will enable the relevance of two solutions to be demonstrated and tested in real conditions on a Grimaldi ship. The project has two objectives:

1. Optimise propeller design to limit cavitation, which is one of the main sources of radiated underwater noise;
2. Provide the ship's captain with a real-time self-estimation system of the emitted sound radiation and cavitation detection, so that he can adapt the speed of the vessel in vulnerable areas.

Established in 1947, the Grimaldi Group is a fully integrated multi-national logistics operator specialised in maritime transport of cars, rolling cargo, containers, and passengers. Since the mid-1990s, its company Grimaldi Euromed has been at the centre of remarkable development in the shipment of European finished vehicles and integrated logistics. More recently, it has also become a driving force behind the Motorways of the Sea and Short Sea Shipping concepts in the Mediterranean area and in Northern Europe, thus promoting EU's policy of shifting freight from the road to more environmentally friendly transport solutions. With an average age significantly lower than that of the reference market, its fleet includes modern vessels dedicated to the transport of rolling freight (trucks, trailers, cars, etc.) and passengers.

Grimaldi Euromed decided to be part of PIAQUO project to investigate together with all partners on underwater noise impact reduction considering the maritime traffic and real time behavior of their ships. Thanks to the project results, the Italian shipping company will be able to know the real impact of a ship sailing in the Mediterranean area about the scale of risks of impact of noise on marine fauna and the effects of noise on marine species.

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About Naval Group

Naval Group is a partner to its customers' maritime sovereignty. An international player in naval defence and heir to French naval know-how, Naval Group develops innovative solutions to meet the needs of navies. Present throughout the entire life cycle of the ships, the group designs, builds, integrates and maintains submarines and surface ships, as well as their systems and equipment, through to dismantling. It also provides services for shipyards and naval bases. A high-tech company, it builds on its exceptional expertise, its unique design and production resources and its ability to set up strategic partnerships and successful transfers of technology. With operations on five continents, the group has a turnover of 4.1 billion euros and employs 16028 people (full-time equivalents / December 2021 data).

www.naval-group.com



About Grimaldi Group

The Grimaldi Group, headquartered in Naples, operates a fleet of about 130 vessels and employs approximately 15,000 people. Wholly owned by the Grimaldi family, it is a multinational logistics Group specialised in the operation of roll-on/roll-off vessels, car carriers and ferries. It comprises seven shipping companies, namely: Grimaldi Deep Sea, operating in the transport of rolling cargo and container on the Atlantic routes and between the Mediterranean and West Africa; Grimaldi Euromed, specialized in the transport of rolling freight in Europe, in the Motorways of the Sea and in the transport of passengers in the Mediterranean with the Grimaldi Lines brand; Atlantic Container Line, which offers transport services for containers and rolling cargo between North America and North Europe; Malta Motorways of the Sea, shipowning company; Minoan Lines, operating in Greek cabotage for the transport of freight and passengers; Finnlines, operating in freight and passengers transport in the North and Baltic Sea; Tramed GLE, active in the transport of freight and passengers between mainland Spain and the Balearic Islands.

The maritime connections are the core of an advanced logistics chain, which includes port terminals and road transport companies. Over 20 port terminals owned/operated by the Grimaldi Group are located in 12 countries around the world: Italy, Spain, Germany, Sweden, Finland, Denmark, Ireland, Belgium, Egypt, Cameroon, Nigeria, Benin. Most of these terminals are fitted with Pre-Delivery Inspection (PDI) facilities, warehouses and workshops.