



**MOQAP Project - Maritime Operations Quality Assurance Platform** (Horizon 2020 – PON 2014/2020).  
Implementation of a Decision Support System able to promptly suggest the optima route of a ship in critical situations with respect to measurable and traceable goal over time.

**Partner.** SIRM, UniParthenope (DiSAQ, DIST)

**Duration of the project:** 30 months

**Budget.** € 3,5 MLN

The objective of the project is to create a platform of services that allows defining, controlling in near real time, predicting and analysing situations that may obstruct the performance of a maritime transport operator.

The platform consists of an ecosystem of cooperating services but they work independently in order to monitor, control and measure performance objectives of different nature evaluated ex ante, in itinere and ex post. The platform will speed up the decision making process in critical situations where it is necessary to respond speedily in order to achieve objectives. In addition, the system will be able to perform the analysis necessary to define the performance achieved and the related operating conditions.

The MOQAP platform is aimed at the main stakeholders in the maritime transport chain:

- mainly shipping companies;
- other actors interacting with information systems used in maritime transport.

The platform includes:

- Technological infrastructure ICT that realises Smart Alert services of the platform. The components and the instruments realized will allow describing the context to be observed, the goals and the objectives of the performance. In addition, they will provide the observations related to warning events.
- Application layer that provides application services to support decisions (multi objective DSS) for the management of a ship with particular attention to the needs of ranked early response related to greenhouse gas emissions and performance evaluation. The application layer also includes all the components for the multi-objective optimization logic of the DSS.



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