
FOR CONTACTS AND DEEPENINGS
CONS.A.R. - CONSORZIO ARMATORI PER LA RICERCA
S.R.L.
(ITALIAN SHIPOWNERS RESEARCH CONSORTIUM)

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INTRODUCTION

This newsletter aims at disseminating in the shipping sector an updated contribution on the advances in the field of scientific research and technological development. The point of view of this newsletter is from Consar, a shipping body involved in the main European and national research programmes. Other news about training, services to the companies and about specialistic support to Confitarma are inserted in a synergic context complementary to research activities. This newsletter is a small contribution to raise awareness about the role and the weight that shipowners are able and have to play as active subjects in the process of technology evolution, environmental protection, safety and human resources development, to maintain high the competitive qualities of the national fleet. You can ask for deepenings and information to the addresses you can find in the headline.

Giuseppe Balzano

European Research



FLAGSHIP PROJECT

EUROPEAN FRAMEWORK FOR SAFE, EFFICIENT AND ENVIRONMENTALLY-FRIENDLY SHIP OPERATIONS

For general information over the project: www.consar.net - www.flagship.be
Progress status: Month 17 of 48

Cons.A.R. main activities:

On April 14th and 15th in ECSA main office (Bruxelles), the Flagship project partners have participated to the following meetings:

- Partners forum: it is an internal assembly among the project participants for evaluating the results obtained during the first year of the activities and to confirm the decision previously taken, or to suggest modification in regard to managerial and organizational aspects;
- Review meeting: the results reached by the various activities scheduled in the first year of the FLAGSHIP projects have been showed at the presence of some delegates of the European Community.



T.D.2.1. SURVEY OVER THE RESISTANCE OF MARITIME STAFF TO THE INTRODUCTION OF ICT

After the filling of the report related to the survey over the evaluation of the new technologies by the side of the maritime personnel, the activity for the development of the second part of the sub-project D2 (aimed to analyze the working processes) has started.

The main objective of this task is the realization of a research over the current normative with reference to crew and technologies themes and to execute a comparison with the results obtained by the precedent survey.

Afterward the data collection, the last stage of the activity will consist in the separate discussion of several work-groups representing all the key-areas of the maritime industry (shipowners, crewmembers, builders).

A comparison meeting is scheduled for the initial stage of the activity (London - May 9th) in the BMT main office.

T.C.1.1 STANDARDIZATION OF EMERGENCY MANAGEMENT T.C.1.2 SAFETY ANALYSIS FOR TECHNICAL SYSTEMS

The activity of advancing of the C1.3 task is proceeding. Consar is one of the participant more involved into the analysis of advantages and disadvantages of the solutions proposed into the precedent deliverables of the sub-project C concerning the identification of the functionalities of an integrated emergency management system.

The activity includes an evaluation of pros and cons into these interesting areas::

- economic;
- human factor (training);
- environmental;
- safety.

Cons.A.R, during this first stage, has performed a statistical report over the casualty typologies occurred to the several vessel typologies during the years 1999-2003 (IMO Data).

The report wants to signal the recurrent casualties for the different vessel typologies.

On our website www.consar.net you can download the final report relative to this research.



SEVENTH FRAMEWORK PROGRAMME 1ST ANNOUNCEMENT

**Approved research proposals
(with CONSAR as partner)**

AZIPILOT

The main purpose is to improve the ship's safety, by taking into consideration the man-machine interface and training of maritime pilots, especially when ships equipped with azimuthing control devices are used. This kind of control is rapidly spread in the maritime industry, from the propulsors of little support ships to cruise ships and transatlantics. While industry succeeded in satisfying all the demands, this quick evolution has not allowed the spread of knowledge about different themes.

Even if each industrial sector has its own skill, loss of communication caused an obstacle for the development and compromised the safety. Moreover, a lot of works were just repeated without any real need. To deal with this problem, AZIPILOT project will activate a forum to discuss about technical matters and interconnections with industrial key sectors, such as:

- design specialists and tests about hydrodynamics (theoretical and experimental) and experts of the behaviour of azimuthing control and propulsion systems;
- designers and producers of software, hardware and physical models for marine simulation used to drill maritime pilots (designers, human factor specialists, producers of control and automation systems, lever systems, graphical user's interfaces are also included);
- training structures for stakeholders, by using physical and mathematical simulation instruments, specialists in theory and practise for human factors and specialists in deck personnel and pilots training;
- professional in operative drills (maritime pilots, ship's operators/managers, pilots and final users associations, Maritime Authorities interested in policy and regulations are also included).

The project partners are the following: School of Marine Science and Technology, BMT SeaTech Ltd., Broström Ship Management AB, Cons.a.r. – Italian Ship Owners Research Consortium, CTO, Ship Design and Research Centre, Development Centre for Ship Technology and Transport Systems, FORCE Technology, Foundation for Safety of Navigation and Environment Protection, Mettle, SOGREAH – Port Revel, South Tyneside College, SSPA Sweden AB, STC – Scheepvaart en Transport College, Transas Group, United Kingdom Maritime Pilots Association.

The proposal was approved by the EU Commission. Negotiation step for the project has started after the approval and will be completed within the end of March. Some Cons.a.r.'s associated companies will be directly involved in the project.

SEVENTH FRAMEWORK PROGRAMME 1ST ANNOUNCEMENT



Approved research proposals (with CONSAR as partner)

RISPECT

The main scope of the project is the provision of a software/hardware solution to optimize the management and the maintenance of the ship's structure and painting. The purpose is to rationalize the use of data detected during inspections to compartments/structures and to painting. Main Cons.a.r. objectives in the project are:

- an easier control and constant knowledge possibility by the side of the Shipping Company, through a rational use of the inspections data (classification and internal data);
- maintenance costs reduction. Support in requirement phase of quotations for remedial works (works specification);
- ship's life lengthening;
- reduction of risks for major damages and unforeseen structural downfalls.

During the project there will be the development of:

- ship/fleet software/database which wants to:
 - o make the input from the on-board inspections easier (thickness, coating conditions, corruptions, lesions, etc.). The system allows data input, not only for classification inspections, but also for internal inspections (on-board, inspectors, etc.)
 - o reply to ship's manager answers about situations and forecasts relative to most interesting ship's areas conditions (tanks, compartments, holds, etc.)
 - o produce output reports and documents, for internal management systems for shipping Company (SMS, etc.), for Classification Agencies, for specifications of works, etc.
- a centralized database of European level:

in this database, gradually and anonymously, structural and painting data from a large number of ships will flow together. This centralized database will be accessible to the following potential users: designers, classification agencies, shipyards and shipowners. The last will use statistics, which are available in the database, as a support and comparison in their own maintenance choices.

Cons.a.r. has involved some of its associates to establish a starting group of shipowners to feed and test the functionality and the effectiveness of a centralized database prototype. In order to assure the use of data and to protect the extreme confidentiality, Cons.a.r. imposed the condition that this last experiment will be performed under its close control.

The partners of the project are the following:

Universities of Glasgow and Strathclyde
Atlantec Enterprise Solutions
Bureau Veritas
CONS.A.R
Gdansk University of Technology
Instituto de Soldaduro e Qualidade
Instituto Superior Tecnico
University of Newcastle
Shipbuilders and Shiprepairers Association
TWI (The Welding Institute)
University of Liege

The project start date is estimated on 1st May 2008.



SEVENTH FRAMEWORK PROGRAMME 2ND ANNOUNCEMENT

On the 30th November 2007 the second call for the 7th European Research Framework Programme was announced. Among the various themes presented, there is also one related to maritime transports, divided into different areas.

Expiration date for the submission of the proposals is due on 7th May 2008.

Further information are available on the website www.consar.net .

Research Proposals under preparation for the 2nd call of the Seventh Framework Programme (with CONSAR as partner)

HELPS: Narrow water, channels and manouvring navigation.

SHIP SURVIVABILITY: Safety for average and little dimensioned ships.

GemTech : Exploration of radical change in support of reduced green house gas emissions, incorporating breakthrough technologies and results from interdisciplinary fields such as nanotechnology and biotechnologies.

National Research



ECOMOS Project (FIRB)

ECOLOGIC COMPATIBILITY OF THE SHIPS TRADING ON THE MOTORWAYS OF THE SEA

Project Objectives:

The ECOMOS project, started on the 2nd January 2008, will last three years and will concern about the basic research for the implementation of an integrated reduction system for pollutant atmospheric emissions (SO_x, NO_x, PM) from ships. On 31st January the kick-off meeting in Genoa (c/o CNR) officially started up the project.

Participants:

Cons.A.R;
CNR Genova;
CETENA;
Università di Genova;
Consorzio Universitario Nazionale "Chimica per l'Ambiente" (INCA)

Cons.A.R. participation:

Cons.A.R. will take part to the project executing research activities pointed to the deepening of the possibilities offered by innovative abatement systems (for the reduction of pollutant emissions) able to achieve the established objectives in range of environmental respect, with an acceptable containment level of the efficiency of the ships' propulsion system.



Cons.A.R. activities will especially concern the develop of two basic researches:

RB1: Methodological approach to the reckoning and abatement of noxious gaseous emissions from ships trading the Motorways of the Sea

RB4: A try-out on the experimental diesel engine, for demonstration and real data analysis for the proposed options assessment

During the first year of the project, Cons.A.R. will be busy into the execution of various activities in which is involved as responsible. Consar is performing a reconnaissance and a normative report related to the laws in force and to the laws in preparation in national, international and community field. The publication of the first report will be followed by periodical bulletins (every 6 months). These bulletins will contain the progresses of the interesting normatives.

In range of the ECOMOS project, the Cons.A.R. has launched with the shipping companies who operate into the sector of the motorways of the sea, a survey useful to define the state of the art concerning plants installed on board ships and fuel used with reference to different operative conditions.

On our website www.consar.net you can download the questionnaire (pdf) used for the survey. You can fill it out and send it via fax to the number +39 081/8826194

Moreover a legislative survey was conducted by Consar in order to analyze the current (and in progress) regulations at international, european and national level concerning pollutant emissions from ships. The latest developments raised during the IMO BLG sub-committee meeting were considered: these outcomes will open discussion for the introduction of new amendments to MARPOL Annex VI. Because of the huge legislative unrest around these themes, Cons.A.R. will follow the next steps for the overall lenght of the project, issuing periodical six-monthly bulletins containing all relevant news.



Cons.a.r has activated on its website a new section completely dedicated (MARECO Center) to update, information and discussion over environmental themes relative to maritime sector. The initiative aimsto represent a specialized support for the operators and forall the stakeholders interested to the topic.

www.consar.net

CONS.A.R.

INDUSTRIA 2015 INITIATIVE



Industria 2015 is the law drawing among the new industrial policy launched by the Italian government on 22nd September 2006.

It establishes the strategic lines for the development and the competitiveness of the future Italian productive system, founded over an industry concept extended to the new weaving factories integrating handicraft, advanced services and new technologies, and over an analysis of the economical-productive future scenarios of our nation in a perspective of medium-long period (2015).

The initiative aims to re-positioning the Italian industrial system into the worldwide economy.

Actually 3 PII (Industrial Innovation Projects) are in progress:

ENERGETIC EFFICIENCY

Signed on March 6th 2008, the announcement is settled to the concession of benefits for the realization of programmes destined to the development of new product and/or services typologies with high content of technological innovation and able to have a direct impact on the economical system and on the specific sector.

SUSTAINABLE MOBILITY

Signed on March 20th 2008 by the Economic Development Ministry - Pier Luigi Bersani. From May 15th to July 15th 2008, the enterprises could submit their programmes facing to develop new, efficient, sustainable, economical products/services typologies. 180 million € have been allocated for financing research & development programmes aimed at the realization of a prototype of an innovative product/service.

NEW TECHNOLOGIES FOR THE "MADE IN ITALY"

Signed on April 8th 2008. 190 million € have been allocated for the enterprises presenting industrial innovation projects related to "NEW TECHNOLOGIES FOR THE MADE IN ITALY". Other 25 million € have been allowed to research, development and innovation projects for the SME.

For more information over the initiative:

www.industria2015.ipi.it
www.sviluppoeconomico.gov.it



THE NATIONAL TECHNOLOGY PLATFORMS AND THE "RITMARE" INITIATIVE

ITALIAN RESEARCH FOR THE SEA



In the field of the National Maritime Technological Platform (PTNM), we are considering the opportunity of advancing some proposal for the development of the national research activity.

The proposed topics are in part the same of the SRA (Strategic Research Agenda) of the European Technological Platform and in part the one described into the RITMARE document.

These topics are divided into the following interesting areas:

- Safe, sustainable and effective waterborne operations
- A competitive European Maritime Industry
- Manage & facilitate growth & changing trade patterns
- Sustainable fishing technologies
- Sustainable management technologies for the coastal area
- International net of laboratories for the Mediterranean Sea
- Fitting of national research infrastructures

Cons.A.R., representing Confitarme, is present in the stage of the elaboration of the priorities as coordinator of the third work-team concerning the "Transportation System". The thematic areas coordinated by Cons.A.R. are:

- Safe, sustainable and effective waterborne operations
- Manage & facilitate growth & changing trade patterns

In our website, a new forum for the RITMARE initiative (www.ritmare.forumattivo.it) has been created. Into the forum you can find the detailed description of the sole activities for each research area. Please read the various possibilities and give a contribute to this initiative with a brief comment to the activities that you guess appealing for the development of future studies and researches.

To send your comments:

In the new forum, there is a section completely dedicated to RITMARE. In this section you can find the description of the suggested activities. After the registration to the forum you can send comments concerning each activity in two different ways, as follows:

- 1) in a public form (everyone can read) using the text box on the bottom of the page;
- 2) in a private form (only the forum administrator can read the comment) using the "Inviare una email" command under the Cons.A.R.'s logo.

Forum's registration is needed to participate and the deadline for the sending of your contributions is due to Friday 2nd May 2008.

Consortium Services



ISO 9001/14001

QUALITY AND ENVIRONMENTAL MANAGEMENT SYSTEMS

Cons.A.R. continues the activity of bringing a primary shipping company associated to the consortium to the implementation of the ISO 9001 system.

Moreover, Cons.A.R is bringing to ISO 9001/14001 certification another associated company.

231 SYSTEM (D.LGS 231/01)

COMPANIES CONTROL, GOVERNMENT AND ORGANIZATION MANAGEMENT SYSTEM

Cons.A.R. continues the activity of bringing a primary shipping company associated to the consortium to the 231 certification.

Normative notes:

The Legislative Decree 231/2001 issue concerning the administrative responsibility of collective entities represents a great new for the legal system of enterprise law.

In fact, the Decree charges the entity of a direct responsibility about certain types of crimes committed by administrators, managers, employees or representatives third if done for the enterprise's pros.

The decree overturns, therefore, the principle of "societas delinquere non potest" attributing to the criminal court the power to judge, in parallel, the attribution of responsibility which is ascribed the commitment of the offence and responsibility in the company or for the benefit of which the offence was committed.

The rule has also explicitly stated that the company can go free from liability, or might see diminished his responsibility, if it is equipped with a model of organization and internal management act to prevent the commitment of an offence provided for in the decree.

Depending on the commitment of the offences specified in the decree, the Criminal Judge, for the results of specific process, will be able to apply sanctions against the enterprise (financial penalties, interditive measures, confiscation).

To the classes of crime which relate to crimes under the penal code were added corporate crimes provided for in the Civil Code, of great significance in the light of the New Corporate Law, the New Act on Taxes on Income and New Accounting Standards .

Recently, thanks to the effect of the law 123/07, the administrative responsibility of the enterprise was further extended and for the first time anchored to specific crimes: manslaughter and serious injuries committed in violation of the legislation on protection and hygiene and health prevention of workers at work.

The adoption, by the enterprise, of an organizational and management model for crimes prevention, is a strategic choice for the enterprise, Members and administrators. For the latter, in fact, the adoption of an organizational and control model by the enterprise could have the effect of avoiding any action of responsibility exercised by shareholders against them.

The implementation of a management system for the organization, the government and control of the company, under the decree 231/01, allows the institution to achieve the following main advantages:

to be exempt from sanctions or to reduce their entity;

to find alternatives for the application of precautionary measures;

to manage marginal and support processes (administration, finances, cash, etc.) in a better way;

to refine the internal organization of the enterprise by optimizing the sharing of competences and responsibilities;

to prevent the entry of sanctions or judicial slopes in public certificates that can be requested in connection with business relations and administrative practices;

to apply their ethical principal and governance.



OTHER SERVICES

The normal activities for the provision of the following consortium services for the companies is proceeding:

Manuals and Procedures:

- S.O.P.E.P. plan (Shipboard Oil Pollution Emergency Plan)
- Garbage management plan (Amendment Reg. 2 and new Reg.9 – Annex V – Marpol)
- SMS Manual (ISM Code – IMO Resolution)
- Security plan (Art.6 – 271/99 decree law) – New version – 2007 – With italian and international normative requirements
- HACCP manual (155/97 decree law). New version – 2007 – With italian and international normative requirements
- Procedures for the notification and the ordinance of the on-board garbage in E.U. ports (2000/59/CE directive – 27th November 2000). Bilingual Version (Italian/English)
- Fire Training Manual and Booklets (Solass)

Moreover you can find this new services:

Elaboration and implementation of the management systems:

With the debate of security requirements, environmental normative and needs, security, operating complexity and technological developing, shipping companies needs to be endowed with certified, advanced and rational management tools.

Now, the Cons.A.R. is able to offer to all the associated companies, the management systems planning and developing service at easier conditions. The consortium context where the services are developed, assures an optimization and homogenization of the systems and of the procedures, with benefits regarding the implementation costs' containment and the elaboration, auditing and certification steps quickness.



Here you can find all the offered services:

Elaboration and implementation of Quality Management Systems (ISO 9001)

Elaboration and implementation of Environmental Management System (ISO 14001 – EMAS)

Elaboration and implementation of Company Management Systems for the security (OHSAS 18001)

Elaboration and implementation of Etichs and Societal responsibility systems (SA 8000 – Societal Balance – Environmental Balance – SCR-SC – Ethical Code)

Elaboration and implementation of companies control, government and organization management system (231/01 decree law)

Technical assistance in Company Management Systems' develop and evolution, with the intent to satisfy the improvement objectives expected by TMSA (Tanker Management & Self Assessment)

Elaboration and implementation of informative systems (Management forms and corporate website)

Publishing Highlights



HISTORY OF THE NAVIGATION

DI SILVESTRO SANNINO

Cons.A.R. proposes to the associated shipping companies, the purchase (at exclusive conditions) of an unique literary opera:



STORIA DELLA NAVIGAZIONE

HISTORY OF THE NAVIGATION
by
Silvestro Sannino

Literary opera divided in two extensively illustrated books, shipped in an elegant box.

The market price of the opera is of € 100 + VAT + shipment costs.

Purchasing by means of Cons.A.R. you can make use of a 10% discount over the market price.

Moreover:

- For single orders higher than 20 copies, is possible to pick, in the place of the discount, a special copy, in limited edition;
- The books purchased by means of Cons.A.R. could receive, over demand, an autograph dedication made by the writer.

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The box purchasing price is of € 90,00 + VAT + shipment costs

Payment via COD (Cash on Delivery)

You can find more information over the opera on our website www.consar.net

