



PON03PE_00185_1 Project – “Governance models, reconfiguration and monitoring of sea-land logistics activities” - Analysis of management problems and strategic monitoring of port and interport logistics activities to be reconfigured in an integrated perspective through the support of ICT systems.

Partner. Vitrociset S.p.A., Grimaldi Group, Magsistem Srl, Air Support Srl, Sudget S.c.ar.l., CNR-ISSM, CO.RI.SA., CNIT, UniParthenope.

Duration of the project. 51 months

Budget. € 7,922 MLN

The project, co-financed by the European Union and by the MIUR within the PON Research and Innovation 2007-2013 (www.ponricerca.gov.it), is divided into two distinct sub-lines of research:

- Sub 1 - Meta-managing and re-profiling of sea-land logistics;
- Sub 2 - Managing sea-land logistic processes through innovative ICT systems.

Within the Sub-line 1, industrial research and prototype development activities will be developed using management techniques based on business process reengineering (BPR) models, data monitoring and strategic balanced scorecards. The project aims to define concrete solutions for the rationalization and restructuring of some of the most critical organizational-managerial processes related to logistical-port and inland port activities. Special attention will be placed on the processes and issues related to environmental impact and sustainable growth. As part of the research activities, the development of balanced strategic monitoring models for port and inland port activities is planned, which will be implemented through the configuration of ad-hoc prototypes for the Port of Salerno and the Nola Inland Port. This prototyping is linked to the strategic monitoring of activities linked to the B / M / L period objectives of three key players in the sector, meta-orchestrator of logistics systems, such as:

- a. port managers;
- b. inland port managers;
- c. ministerial control bodies.

Within Sub-line 2, the project aims at the technological development of innovative ICT solutions in port and inland port logistics. The aims are concretized in specific prototype products, which can also have an impact on other industrial sectors, in terms of reusability and resale.

From the technological point of view, the project wants to create a technological ecosystem, supported by a scalable and extensible infrastructure based on CLOUD, able to manage a large amount of data and information (BIG DATA), to normalize them, aggregate them and relate them in order to create predictive decision support algorithms for logistics operations. The project also offers new mapping and monitoring systems for the supply chain flows, specifically designed for the B2A market, regardless of the point of observation (business, operational, security), thus allowing universal monitoring of the processes according to a standard notation, offering a complete overview.

Finally, the project offers new tools for representing processes for the operations management according to the security and integrity constraints of operations, with the aim of making performance and risk levels measurable and recognizable.



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