OFFICIAL PROJECT PRESENTATION

MOS4MOS

Monitoring And Operation Services For Motorways Of The Sea

Project code: 2010-EU-21102-S
TEN-T Motorways of the Sea Call 2010

Aarhus, 11 April 2011
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1. Overview of the Project

2. Activities

3. Partners

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6. Quality assurance plan and control system
1. Overview of the Project

**Action:** Monitoring And Operation Services For Motorways Of The Sea

**Project Code:** 2010-EU-21102-S

**Co-financed by:** European Union, Trans-European Network for Transport, Motorways of the Sea Call 2010

**Duration:** 21/March/2011 – 31/May/2012
**General goal:** Design and demonstrate a set of prototypes that will provide interoperable monitoring and operation services to companies integrating different door-to-door motorways of the sea (MoS) corridors.

The pilot actions foreseen will be applied to existing and consolidated door-to-door routes in the Mediterranean region, namely in the following corridors: Spain-Italy, Spain-Slovenia, Spain-Greece, Slovenia-Greece and Italy-Greece. Pilot actions will address two different types of traffic: ro-ro and containerised freight, and will aim to achieve a better integration between the different modes of transport involved in the door-to-door MoS transport chain: road, rail and maritime transport.
Specific objectives:

- Facilitating and simplifying the compliance of companies integrating a door-to-door MoS supply chain with regulations.
- Improving the coordination of public and private organisations to increase the efficiency of ports as MoS gateways. New methods for simplifying Customs controls of intra-Communitarian trade at ports will be defined and piloted.
- Improving the operational coordination of the different transport modes integrating a MoS.
- Promoting and supporting sustainable intermodal transport solutions that reinforce the TEN-T MoS network. Several communication, training and demonstration activities will be carried out in order for the MOS4MOS Action to contribute to this goal.
- Providing a set of monitoring services for MoS. Tracking and tracing of MoS freight will be demonstrated as a result of this Action.
1. Overview of the Project

Directive 2010/65/EU on reporting formalities
Regulation 177/2010 on new definition of Authorised Regular Shipping Services
Blue Belt Concept

Security Amend. of EU Customs Code
EMSA
eCustoms

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IMPLEMENTATION OBJECTIVES:

Port level (port gateways)

- Customs control simplifications
- Impact of new Customs regulations
- Solutions to improve control and efficiency
- Port formalities (Dangerous Goods, vessel arrival / departure)
- Port traceability

Port to port level (short-sea capacities)

- Port to Port relationships
- Port – Carrier – Port relationships
- Customs relationships with ports and carriers
- Implications / potential solutions of the new customs security amendment
- Maritime traceability
1. Overview of the Project

IMPLEMENTATION OBJECTIVES:

Port to hinterland (intermodal transport solutions)
- Intermodal solutions and relationships
- Railway connections
- Multimodal traceability
- Improvements in modal shift planning and execution
- Interfaces between transport operators and terminals

Door to door (freight corridors)
- Short Sea consolidation centres (LCL & LTL)
- Common monitoring and operation services for Motorways of the Sea
- Contract arrangements / Single Transport Documents
- Door to door traceability
- Quality monitoring
1. Overview of the Project

**e-maritime**

- **Transport Logistics Applications**
  - Co-operative transport networks and integration of short-sea-shipping into logistics, i.e. Short Sea Consolidation Centres
  - Monitoring and control of service quality
  - Managing the environmental footprint of waterborne transportation on key inter-modal corridors

- **Port / Terminal Operations Applications**
  - Integrated systems for tracking, monitoring and management of transport flows in and around ports
  - Integration with other modes of transport, i.e. railways

- **Ship Operation Applications**
  - Port Community Systems
  - Automatic collection, management and reporting of quality statistics
  - Resource management, optimised movements of equipment, containers, cargo and passengers
  - Integrated port security management

- **Administration Applications**
  - Improved automation in ship reporting formalities
  - Better and proactive planning of operations
  - Resource management optimisation

- **Ship Operation Applications**
  - Support for National Single Windows and one-stop shop developments
  - Support for compliance with and enforcement of regulations
  - Improved interoperable traceability systems for traffic, ship and cargo
  - Integrated systems for monitoring, evaluating and managing situations
WORK PLAN:

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<td>Milestone 6: Report on training materials</td>
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2. MOS4MOS Activities

**ACTIVITY 1. MOS4MOS Master Plan**

- Current status and diagnosis, identification of problems and areas for improvement, analysis of possible alternative solutions, feasibility study of different alternatives, strategic assessment (selection of solutions) and piloting, demonstration and implementation programme.

**ACTIVITY 2. PROTOTYPING**

- Provide technological solutions that improve MoS at the port, port to port, port to hinterland and door to door levels
- Build these solutions over existing info-structures (port community systems, e-Customs, transport and economic operator’s systems, etc.)

**ACTIVITY 3. PILOTING AND DEMONSTRATION**

- Organise pilot demonstrators over existing partner supported corridors

**ACTIVITY 4. COMMUNICATION AND TRAINING**

- Create and promote SSS Solutions and MoS corridors taking advantage on the project results
- Produce training materials and dissemination seminars

**ACTIVITY 5. MANAGEMENT AND ORGANISATION**

- Coordination, control procedures, quality and risk management and monitoring mechanisms
- Bodies integrating the organisational structure: Coordinator, Partners’ General Assembly, Project Board, Project Office and Peer Review Group.
ACTIVITY 1. MOS4MOS MASTER PLAN

This activity aims at elaborating the Master Plan for the monitoring and operation services to be designed and piloted in this Action. A strategic assessment of the situation on specific MoS corridors will be conducted.

Task 1.1. Current status and diagnosis

- Inter-company and inter-mode communication flows, processes and paperwork involved will be analysed in-depth in MoS corridors.

- Examples of the MoS corridors to be studied are:
  - Madrid-Port of Valencia-Port of Livorno-Bologna
  - Castellon-Port of Valencia-Port of Piraeus-Athens
  - Zaragoza-Port of Barcelona-Port of Koper-Ljubljana
  - Ljubljana-Port of Koper-Port of Piraeus-Athens.
ACTIVITY 1. MOS4MOS MASTER PLAN

Task 1.2. Identification of problems and areas for improvement

- Identification of problems and areas for improvement in the information and communication technologies (ICT) domain in the mentioned MoS corridors.

- Four areas of intervention:
  - Port gateways: Focus on ICT problems and improvement at port level.
  - Short-sea capacities: Dealing with ICT problems and bottlenecks in the port-to-port segment of the chain. Routes to be analysed:
    1) Valencia-Livorno  2) Valencia-Salerno  3) Valencia-Koper
    4) Valencia-Piraeus  5) Barcelona-Koper  6) Barcelona-Piraeus
    7) Koper-Piraeus  8) Salerno-Piraeus
  - Intermodal transport solutions: Addressing the ICT current situation of services and connecting the final origin or destination of the goods with the ports. Hinterland-to-port level
  - Freight corridors: Building on the information obtained in the previous three areas of intervention and focusing on the entire door-to-door MoS transport chain.
AREAS OF INTERVENTION

Manufacturer
Exporter
Forwarder

Short Sea Consolidation Centre
Freight Stations

Road
Rail
Port
Customs

Maritime Carrier

Port
Customs
Road
Rail
Short Sea Consolidation Centre
Rail Terminal

Forwarder
Importer
Manufacturer

Port Level (Port Gateways)

Port to Port (Short Sea Capacities)

Port to Hinterland (Intermodal Transport Solutions)

Door to Door (Freight Corridors)

Port Level

Port to Hinterland
2. MOS4MOS Activities

PROTOTYPES

- Electronic Ship Formalities
- Intra-community Freight Controls
- Intra-community Customs Paperless Controls
- Automatic Gate System
- Rail-Port Interfaces
- Rail e-Ways
- Rail Transport Management System
- Port Community Collaborative Solutions
- Multimodal Paperless Workflows
- Short Sea Consolidation e-Services
- Monitoring of Smart Containers
- Port Traceability
- Vessel Georeferenced Alerts
- RFID Traceability of Ro-ro Units
- RFID Traceability for Automotive Logistics
- Vessel Georeferenced Alerts
- Monitoring of Smart Containers
- Port Traceability
- Vessel Georeferenced Alerts
- Monitoring of Smart Containers
- Port Traceability
- Vessel Georeferenced Alerts
- Monitoring of Smart Containers
- Port Traceability
ACTIVITY 1. MOS4MOS MASTER PLAN

Task 1.3. Analysis of possible alternative ICT solutions

- Different alternative solutions will be proposed for the most significant problems.

Task 1.4. Feasibility study (financial and technical) of different alternatives

Task 1.5. Strategic assessment of alternative solutions

- The prototypes to be designed, piloted and demonstrated will be prioritised and selected.
- A variety of constraints, mainly time, costs, preparatory actions and dependencies, will be considered in the selection process.

Task 1.6. A detailed piloting, demonstration and implementation programme

- For each prototype selected, a prototype plan will be defined, including a functional description with business scenario and a work plan with specific tasks, milestones and deliverables.
ACTIVITY 2. PROTOTYPING

This Activity aims at prototyping the innovative solutions identified in the first activity.

This will be done by process re-engineering, introducing new information systems and technologies and/or adapting existing ones currently used by the partners.

Each partner will, therefore, introduce or adapt such systems with a clear view to creating new interoperable services that contribute to enhance monitoring and operation processes in MoS door-to-door corridors.


**ACTIVITY 2. PROTOTYPING**

**Sub-activity 2.1: Definition of specifications of the interfaces between different stakeholders' systems and platforms**

The specifications of the public interfaces offered by the different partners’ and involved stakeholders’ systems will be studied.

Different implementation options will be possible for each location and case.

A general framework of common business processes will be developed with the condition that it would be adaptable to the particularities of each context (country, means of transport,...).

**Sub activity 2.2: Implementation of the stakeholders’ prototypes**

Preparatory activities will take place as well as pre-implementation and/or adaptation of stakeholders' systems in order to leave systems ready for the prototype implementation.

As a result of this activity, a high-level technical specification report will be produced for each prototype. At least 3 prototypes will be developed.
ACTIVITY 3. PILOTING AND DEMONSTRATION

This activity aims at piloting and demonstrating the prototypes previously specified. At least 3 prototypes will be developed to facilitate operations at port gateways, short-sea capacities, intermodal transport solutions and freight corridors.

The relevant factors and agreements that will drive the success of the prototypes to be piloted will be identified and assessed in this activity. The potential impact that the monitoring and operation services piloted may have will also be evaluated. To this effect, previously identified performance indicators will be measured.

Each prototype will be tested.

As a result of this activity, a report on the pilots and demonstrations conducted will be produced, including comments from the peer review group.

Whenever possible, visits and public demonstrations will be organised for companies potentially interested in the prototype tested, as well as for other stakeholders.
ACTIVITY 4. COMMUNICATION AND TRAINING

Communication and training activities aim at unifying criteria, informing and disseminating the achievements of the Action, preparing training materials and performing internal and external training activities or seminars for different stakeholders concerning the technical activities and pilot actions developed during the MOS4MOS Action.

6 international workshops and meetings will be organised:

- First Action meeting (Port of Koper)
- Information day on strategic assessment (Port of Valencia)
- Information day on prototyping (Port of Livorno)
- Information day on piloting and demonstration (Port of Barcelona)
- Information day on training (Port of Pireaus)
- Information day on the MOS4MOS Action (Brussels)

Additionally, the training activity will compile the outputs of the Action and will create training materials organised into 14 main topics.
ACTIVITY 5. MANAGEMENT AND ORGANISATION

This activity covers the management and organisation activities of the Action that will be required throughout its duration. Adequate coordination, control procedures, quality and risk management and monitoring mechanisms will be provided.

Bodies integrating the MOS4MOS organisational structure:

- Coordinator
- Partners’ General Assembly
- Project Board
- Project Office
- Peer Review Group.
ACTIVITY 5. MANAGEMENT AND ORGANISATION

- **Coordinator:** Port Authority of Valencia. Point of contact between the European Commission and the Consortium

- **Partners’ General Assembly:** Body where all project partners are represented.

- **Project Board:** Central governing body of the Action, reporting to the Partners’ General Assembly.

  Members of the Project Board:

  - Port Authority of Valencia
  - Valenciaport Foundation
  - Port Authority of Livorno
  - Port Authority of Salerno
  - Luka Koper d.d Port and Logistics System
  - Port Authority of Piraeus
  - Port Authority of Barcelona
  - Escola Europea de Short Sea Shipping
  - Intereuropa Global Logistics Service
  - University of Piraeus Research Centre.
ACTIVITY 5. MANAGEMENT AND ORGANISATION

- **Project Office**: Valenciaport Foundation and European School of SSS

- **Peer Review Group**:
  The Peer Review Group will monitor and validate the Activities carried out in the Action.
  The Peer Review Group will:
  - Carry out the revision of the MOS4MOS Master Plan
  - Review the reports on prototypes
  - Visit the demonstration sites and attend the demonstration days
  - Revise the piloting and demonstration final report
### MILESTONES

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<td>3</td>
<td>Demonstration of Pilot 1</td>
<td>12/03/2012</td>
<td>Demonstration of Pilot 1 carried out successfully</td>
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<tr>
<td>4</td>
<td>Demonstration of Pilot 2</td>
<td>20/03/2012</td>
<td>Demonstration of pilot 2 carried out successfully</td>
</tr>
<tr>
<td>5</td>
<td>Demonstration of Pilot 3</td>
<td>23/03/2012</td>
<td>Demonstration of pilot 3 carried out successfully</td>
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<td>6</td>
<td>Report on pilots and demonstration</td>
<td>23/04/2012</td>
<td>Submission of report on pilots demonstrations, including revisions from peer review group</td>
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<td>7</td>
<td>MOS4MOS web-site</td>
<td>02/05/2011</td>
<td>Launching of the web-site of the MOS4MOS Action</td>
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<td>8</td>
<td>MOS4MOS Communication dossier</td>
<td>31/05/2012</td>
<td>Delivery of the communication dossier for the Action, including brochures, press releases and information on all communication activities organised</td>
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COORDINATOR: Port Authority of Valencia

Project Leader: Jose García de la Guía, Technology Innovation Director

Consortium:

Port Authority of Valencia:
José García       Fátima Zayed       Ángela Torrijo

Port Authority of Barcelona:
Rafael Gomis       Jaume Bagot
3. Partners

**Consortium:**

**Fundación Valenciaport:**
- Miguel Llop
- Eva Pérez
- Rocío García
- Sean Deehan
- Luisa Escamilla
- María Feo
- Salvador Furió
- Purificación Albert
- Remedios Cebriá

**European School of Short-Sea Shipping:**
- Eduard Rodés
- Concha Palacios

**Autoterminal:**
- Xavier Vázquez
- Sergi Fernández
Consortium:

RENFE Mercancías:
Juan Ignacio Cruz

CIMNE:
Anna Font

COMPASS:
Mónica Fraile    Julio García    Clara García
3. Partners

**Consortium:**

**INDRA:**

Isabel Pascual

**Universitat Politécnica de Catalunya:**

Santiago Ordás  
Antoni Giró  
Mireia Huerta

**Asta Logistics Group:**

Agustín Montorí  
Mabel García  
Sergio Velázquez
3. Partners

Consortium:

**ARKAS SPAIN:**

Julio Salvador  Cristóbal Jerez

**International Forwarding S.L.:**

José Quilis  Antonio J. Aznar  J.M. Enguidanos

**Corporación Marítima:**

Javier Quirós  Beatriz Gutiérrez  Natalia Mazas

Pedro García
Consortium:

**Continental Rail:**
Juan Marzo

**Rete Autostrade Mediterranee (RAM):**
Andrea Chiappetta  Romina Gallo  Francesco Benevolo  
Cosimo Caliendo

**Salerno Port Authority:**
Federica Navas  Gianluigi Lalicata
3. Partners

Consortium:

Port Authority of Livorno:
Antonella Querci

Interporto Bologna:
Angelo Aulicino  Marguerita Banzi  Chiara Lepori

Interporto Toscano Amerigo Vespucci:
Claudio Bertini
3. Partners

**Consortium:**

- **Global Maritime Agency:**
  - Anthony Doukas

- **Piraeus Port Authority:**
  - Dimitris Spyrou
  - Yiannis Papagiannopoulos
  - T. Karlist
  - Stavros Hatzakos

- **Ocean Finance:**
  - Maro Varvate
  - Dimitris Lyridis
3. Partners

**Consortium:**

**Neptune Lines:**
- Markos Vassilikos
- Melpomeni Traviou

**University of Piraeus:**
- Ioannis Kolioussis
- Stavros Papadimitriou
- Ernest Tzanatos

**Atlantica di Navigazione (Grimaldi Group):**
- Paul Kyprianou
- Carlo Cinque
- Mario Massarotti
- Giancarlo Coletta
3. Partners

Consortium:

Port of Koper:
Masa Certalic       Martina Grzancic       Brlek Bostjan

Intereuropa:
Jana Barba          Katerina Koprivec
PARTNERSHIP COVERAGE:

Towards BLUE LANES, with ports key nodes for co-modality within the logistics
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4. Management Structure of the Project

Coordinator

Administrative coordination and management of financial justification

Technical planning and coordination

Project Office

Project Board

Technical and Administrative Management

ACTIVITY 1. MOS4MOS Master Plan

ACTIVITY 2. Prototyping

ACTIVITY 3. Piloting and Demonstration

ACTIVITY 4. Communication and Training

ACTIVITY 5. Management and Organisation
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Peer Review Group

Chairman: European Coordinator for Motorways of the Sea from the European Commission

Vice-Chairman: Representative from DG-MOVE

Ministry Representatives:

- Xavier Gesé, Motorways of the Sea Expert, Puertos del Estado, Spanish Ministry for Public Works and Transport
- Prof. Tomaso Affinita, Rete Autostrade Mediterranee (RAM), Italian Ministry for Transport
- Rep from the Greek Maritime Ministry
- Rep from the Slovenian Ministry for Transport
Peer Review Group

ICT Experts:

- Prof. Ing. Bruno dalla Chiara
- Andreas Nigulis, Maritime and ports business application
- Paolo Paganelli - Bluegreen Strategy srl
- Dr Dimitris K. Kardaras, Assistant Professor in Information Management Business Informatics Lab, Dept. of Business Administration, Athens University of Economics and Business

End users representatives:

- A representative of Ford Spain
- N. Varvates, Chairman of Hellenic Shortsea Shipping Bureau
- Mike Sturgeon, ECG (European Car Group of Interest) Executive Director
- Mr. Jens Hügel – Head of Sustainable Development from International Road Transport Union (IRU)
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6. Quality Assurance Plan

**Quality Control Scheme**

- **Prototype Leader**
  - The prototype leader will check all involved partners' contributions and send the report for its revision to the Activity leader.

- **Activity Leader**
  - The Activity leader will revise the document and will either propose recommendations for improvement or accept it, within a maximum period of 15 days.

- **Prototype Leader**
  - The prototype leader will carry out the modifications necessary and send the improved report within a maximum of 7 days.

- **Activity Leader**
  - The Activity leader will revise again the report and will accept it or ask for further modifications.

- **Document Accepted**
  - A report accepted by the Activity leader will be sent to all members of the Project Board. The Project Board will revise it within 7 days.

- **Project Board**
  - If the report requires the revision by the Peer Review Group, it will be sent to its members for revision. The Peer Review Group will have 15 days to revise and accept the document or ask for modifications. Once approved, the report will be sent to the TEN-T Executive Agency.
  - If the report did not require the revision by the Peer Review Group, it will be sent to the TEN-T Executive Agency.

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6. Quality Assurance Plan

Quality Control Deadlines

[MOS4MOS logo]

[Graph showing timelines and deadlines for different tasks]

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## Quality Control Reviews

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THANK YOU FOR YOUR ATTENTION!