**NAME OF CASE**

**Italian VTS (Vessel Traffic Services), focusing on PMIS (Port Management Information System) subsystem**

**KeyWords:**

IT-technologies and solutions (for management and administration); Competitive aspects: collaboration (cooperation with competitors), prioritisation (priorities on infrastructure and in nodes); Communication between authorities: cooperation, procedures, legal frameworks

<table>
<thead>
<tr>
<th>Case Logo or Picture:</th>
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<tr>
<td><img src="image" alt="VTS Logo" /></td>
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<th>Benefits:</th>
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| • Drastic reduction of transit time has been obtained through the process computerization  
  - Reduction of costs for operators and Public Administrations (due to time reductions)  
  - Customer satisfaction and loyalty improvements (also due to time reductions)  
  • Security of the information flows  
  • Reduction of the risk of losing paper documentation |

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<th>Success Factors:</th>
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| • Capacity to integrate the system with the other technological assets already operating in the Italian ports.  
  • The advantages in the use of the system were concrete.  
  • The financial framework, with the direct involvement of the private operators, contributed to assure the involvement of the private side.  
  • The faster and on real time basis sharing of the information concerning the flows of dangerous cargo in the ports |

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<th>Supported Strategic Targets:</th>
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| • Ideal utilisation of infrastructure  
  • Competitive logistics and transport system  
  • Highest safety and security  
  • Increased competitiveness  
  • Increased quality  
  • Increased safety and security |

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<th>Description:</th>
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| A VTS (Vessel Traffic Service) is a service implemented by a Competent Authority, designed to improve the safety of vessel traffic and to protect the environment.  
  
  At local level (port) of the VTS architecture, we find the PMIS application, which is a web platform that allows Port Authorities operators to perform management of information (arrivals and departures), services provided, administrative documents and monitoring of the maritime traffic. |

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<th>Starting Point/Objectives/Motivation:</th>
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| The described best practice aims to give solution to some relevant problems existing in maritime transport as:  
  • Duplication of data input  
  • Lack of communication and interoperability  
  • Paper documents exchange  
  • Lack of traceability of the flows of information  
  • Lack of safety and security  
  • HAZMAT messages  
  
  The Italian VTS (Vessel Traffic Service) is the largest system in the world for controlling on maritime traffic entering domestic water, improving safety at sea and supporting operations inside ports.  
  
  In most implementations a VTS is limited to a port area or a well-defined transit area but the Italian VTS is based on a different approach:  
  • It is a nation-wide system covering all the Italian coast;  
  • It provides advanced information services;  
  • It provides tools to support port and ship security  
  
  The tasks of the Italian VTS can be divided into four different areas of expertise:  
  • Surveillance  
  • Safety  
  • Security  
  • Efficiency |
PMIS is the module of VTS that performs the Port Traffic Control. PMIS system is connected with VTS radars and TVCC (cameras). Collected data are processed and the ship position is shown on the screen port map with the correct shape and dimensions.

This Best Practice could be transferable to other sectors. The use and the upgrading of the described Best Practice in the rail transport can contribute to overcome some of the existing constraints in the use of rail modality for chemicals transport.

The customer in this initiative is the Italian Ministry of Transportation, the client is the Italian Coast Guard.

More information:

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Transport mode or supply chain elements:

Relevant transport modes or supply chain elements:
• Transport
• Loading and unloading
• Transhipment

Main actors involved
• Ministry of Transportation
• Coast Guard
• Port Authority

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