



WP 3.1 Port Processes

EFFORTS facts

Effective Operations in Port (EFFORTS)

aims to improve the competitiveness of European port operations and the quality of the ports labour conditions and market, being a prominent one in coastal regions

EFFORTS WP3.1 – Port Processes aims at providing the methodology and necessary tools to create interoperability solutions between stakeholders in ports

WP3.1 – The Results

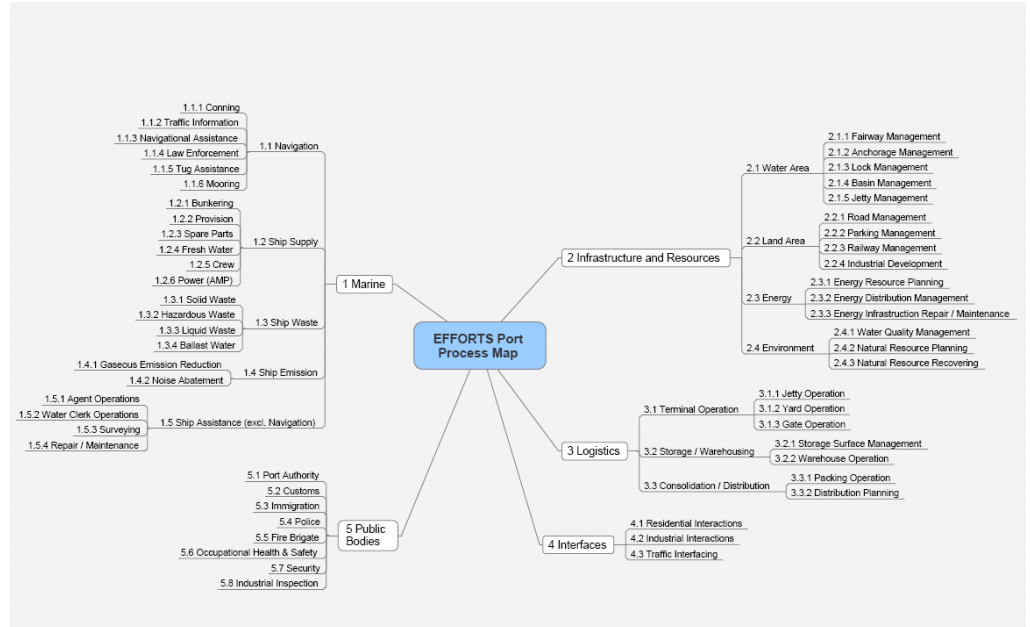
- Handbook of process modelling
- Process ontology and process modelling platform
- Port process map
- Procedure model for specification, implementation and quality assurance of interfaces
- Prototype framework for development and testing of interoperability solutions, based on standard business cases
- Prototype system for port process optimisation
- Verification and validation of the pilot installation

Free Tools for Ports

- A **standard high level process map and actors model** that can be used in house to develop own models at a more detailed level and for specific purposes (risk assessments, process improvements, introduction of new ICT systems etc.). This process model is captured in BPMN language with support of Enterprise Process Center (EPC), a process modelling tool of Interfacing Technology Corp.
- The same process model can also be used to **facilitate interoperability solutions** between port actors or even between ports
- A **User Guide** for specification and implementation of interoperable port systems

These tools will be made available in a toolbox based on Enterprise Architect – (<http://www.sparxsystems.com.au>). This will help you to get rapid start on the development process.

EFFORTS Port Process Map



EFFORTS port process map or port process model depicts different operational areas of port irrespective to its cargo types, operational concentration and ownership model. Due to its generalization, port operators therefore are able to retrieve information from this model and customize it to their requirements.

Five areas (process domains) are defined:

- **Marine** includes processes associated with navigation and ship operations in ports
- **Infrastructure and Resources** include processes regarding land and water infrastructure of ports
- **Logistics** include processes associated with operation among ship, terminal and cargo/passengers
- **Interfaces** include processes not directly linked to the port operation but affected or influenced by the processes executed in the port area
- **Public Bodies** include processes directly related to public entities having influences on port operations

The list of port process and process descriptions are obtainable at:

<http://pmp.efforts-project.org/?page=showOverview>





Who is who in WP 3.1?

Development Team
 MARINTEK (WP Leader)
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 TREDIT
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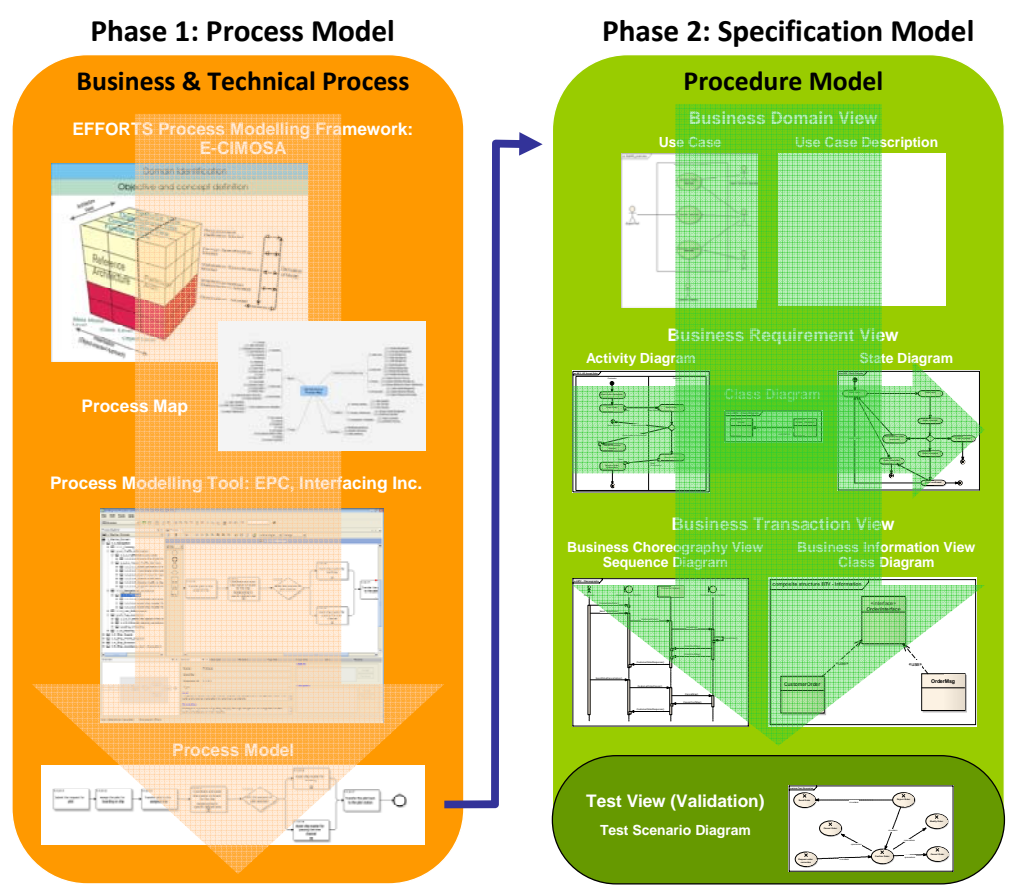
Partner Ports
 DPC
 PAG
 HPA



With support from:



EFFORTS Conceptual Model for Interoperability



The EFFORTS approach is a methodology for specification, implementation and verification of interoperable port IT systems based on usage of the EFFORTS port process model and the EFFORTS specification model, also called EFFORTS roadmap. By using the EFFORTS approach the basis for all subsequent phases of the IT development lifecycle is formed.

The benefits of using the EFFORTS approach:

- Focus on business process (and process interoperability), not on the technical interface
- Model based approach
- Supports a component based approach - re-usability of functional units
- Integrates all phases of the development process – specification, implementation and test
- Improved maintainability and extensibility
- Simplify definition of scope; improve communication with business experts; increase acceptability
- Reduction of development, deployment and maintenance costs

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