



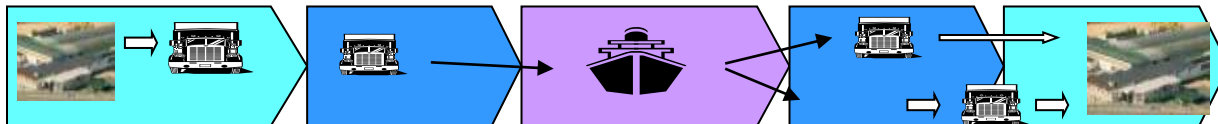
EFFORTS

- EFFORTS stands for **Effective Operations in Ports**
- FP6 – Sustainable Surface Transport program
- EFFORTS started 1. May 2006 and ended 31. Oct. 2009
- The project funding volume by EU is 7 Mio. €
- 4.7 Mio. € own funding by the consortium
- 11.7 Mio € budget volume in total
- 38 European partners
- <http://www.efforts-project.org>



1. Motivation for EFFORTS

- 1 200 merchant ports 100 000 km of European coasts;
- several hundred others along 36 000 km of inland waterways
- key points of modal transfer and of vital interest to handle 90% of Europe's intercontinental trade.
- Ever increasing trade volumes
- Ever increasing number and size of ships
- Difficulties to expand port areas
- Need to:
 - improve of competitiveness of European ports
 - improve of the port labour conditions



2. Consortium partners

- **Lead partner:** D'Appolonia, Italy
- ATA, France
- Biowind, France
- Caris, Netherlands
- Cetmef, France
- CFT, France
- Consultrans, Spain
- Force, Denmark
- FIMR, Finland
- FMI, Finland
- ICES, France
- IFREMER, France
- Imperial, UK
- ISDEFE, Spain
- ST, Portugal
- JRC, Italy
- L&R; Germany
- Marintek, Norway
- Marimatech, Denmark
- NundP, Germany
- SW, Netherlands
- TLA, France
- Tredit, Greece
- TuTech, Germany
- TUHH, Germany
- UNICAEN, France
- VTT, Finland

3. Participating ports

- Lisbon / Portugal
- Gijon / Spain
- Dublin / Ireland
- Le Havre / France
- Hamburg / Germany
- Turku / Finland
- Thessaloniki / Greece
- Livorno / Italy



4. Structure of the project

- **Technical areas**
- Navigation in ports
- Ports and environment
- Port organisation
- **Transversal areas**
- Management ports
- Integration
- Training
- Exploitation



5. SP1: Navigation in ports

- Increased automatisisation of processes
- Improved safety and efficiency during docking and manoeuvring in fairways and in ports
- Effective use of tug assistance through accelerated training of tug crews, achievable by using training simulators
- Based on high accurate digital chart data (Port ECDIS)
- Improvement of use of available manoeuvring space
- Continious monitoring of operations
- Increased automatisisation of processes



6. SP2: Ports and environment

- Aims at sustainability of port infrastructure and operations by solving environmental conflicts but maintaining efficiency
- Conceive pathways for integrated management of environmental issues in European ports on a large level
- Improving the state of the art, e.g. provide for viable and integrated solutions regarding the amelioration of port environment
- Overall strengthening of port status within local communities



7. SP3: Port organisation

- System analysis to provide comprehensive picture of related port processes
- Elucidate interdependencies
- Provide a common European understanding of the interdependencies
- Identification of synergies and integration potential
- Development of tools and methodologies for improvement of port operations, infrastructure, systems and risk assessment framework



8. WP III: Training

- To ensure that we research how best to invest in the development of our greatest resource, our people
- To develop a “skills and competency ports passport” for those who work in European Ports and to set a benchmark for integrated training and development programs
- To provide and exploit training facilities on European level in order to achieve both, a high-level staff qualification and cost savings in training equipment such as simulators





Thank you for your attention!

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