Improved Digital Competences for Maritime Education and Training
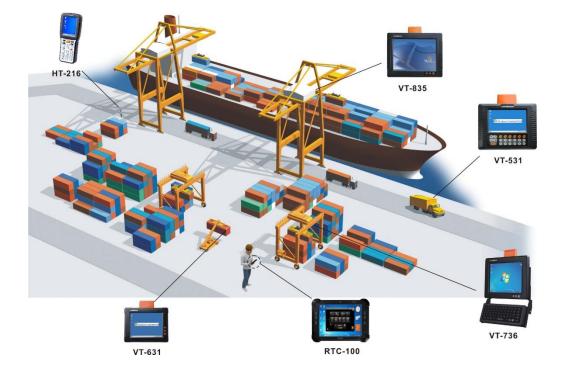
Rationale

Most recent innovations in ports and especially container terminals are strongly dependant on ICT infrastructure and ICT-based tools. However, maritime training provided in maritime institutions does not sufficiently address this field of expertise, meaning that potential candidates for port placement lack digital competences to carry out supervisory and management responsibilities required in increasingly sophisticated or 'smart' ports.

Aims

The study aims at promoting and implementing a framework for collaboration between academics and relevant stakeholders from the maritime industry.
Its overall objective is to ascertaining the current and future demand for ICT education and training in maritime courses.

Expected outcomes

• Inputs for a new curricula specially tailored to port personnel with responsibilities in supervision, operation and management of port infrastructure and superstructure areas.

• A platform for stakeholder engagement and validation of the project's results as well as the preparation of a more ambitious research and technology development to be funded by external bodies.

Dr. Marlene Calderón
Project coordinator

Industry and academic researcher with experience in ship design, ship building supervisor and project consultant. Applied research in a broad range of topics including 'smart logistics and port performance', 'maritime safety and security', 'risk management', 'scenario and emergency planning' and 'occupational health for fishermen and seafarers'. Extensive experience in co-ordinating and leading international networks for research and technological development projects. Most projects funded by the European Commission Framework Programmes (e.g. FP4, FP7, HORIZON 2020), DG EMPLOYMENT and DG MOVE.

Nikolaos Maragkos
Research assistant

Maritime Economist and MSC in Shipping & Logistics, registered with the Institute of Chartered Shipbrokers (ICS), with experience in research, analysis and advanced analytics. Research interests include 'oil and Gas price correlation', 'US shale gas exports', and 'Freight rates'.