

1S4IWT – 1 System 4 IWT Learning: Upskilling Pathways

Currently, there is no formal structure and or culture in the inland waterway transport (IWT) sector for upskilling. 1System4IWT aims to build a learning system that will act as a solution for ensuring and enduring continuity of education & training for IWT students and workers and generate a „personalized learning experience“. The project will focus on developing commons resources, that meet the needs of nowadays trends and challenges for (incoming) staff (boatmen) in the IWT sector.

Project Objectives

In this project, a system architecture for interconnecting education & training institutions e-learning platforms with the Inland Navigation eLearning System (INeS) which has been developed in previously EU funded projects will be designed. This should result in the possibility of exchanging and sharing digital learning material, as well as gaining information about individual learning progress of users in organized (individual) learning settings in form of badges or microcredentials using open standards.

The main objectives are

- to create a resilient, easily accessible and future-proof education & training system for the inland waterway transport sector (by creating new content and building a platform);
- to achieve a process of structured cooperation, focusing on formulating and developing needs and learning outcomes, between the fields of education, industry and social partners (by means of a community of practice);
- to contribute to a strong brand to further improve the positioning of the sector.

Project Milestones

I. Gap Analysis: Skills & Legislation

The existing legislation gap at EU and national level in the Rhine and Danube riparian countries and the needs and challenges for EU legislation implementation regarding permanent adaptation of professional competencies according to innovative technologies and digitalization in IWT sector will be analyzed. In addition, an inventory of (new) competences needed in the IWT sector and jobs onboard IWT vessels will be created.

II. Vocational Curricula and Life-long Training-Content

After an evaluation of the current use of IWT learning material & needs, training materials for several competence areas will be updated and enhanced with interactive gamification content.

III. Architecture and Framework

A specific system design of how to integrate institutions' LMS (Learning Management Systems) and INeS (Inland Navigation eLearning System) by means of open standards is created, piloted, and evaluated. A technology agnostic data model will serve as a virtual prototype for enabling individual learning progress in form of a learning dashboard.

IV. Community of Practice

A learning community of trainers, teachers and professionals from the IWT-sector will evolve from the project, offering train-the-trainer programs. Exchange will be possible on a professional platform offered to alumni and graduates of recognized IWT training and education trajectories. Via this platform testing of trans-national vocational content and life-long trainings offered to IWT teaching professionals can take place.

Project Partners: Ceronav, RO; University of Craiova, RO; Schiffer-Berufskolleg, DE; University of Zilina, SK; Stichting STC Group, NL; University of Applied Sciences Upper Austria/Logistikum, AT;

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