

WP 3: Jobs & Skills

D 3.3:

Consolidation and Provision of Learning Content

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1. EXECUTIVE SUMMARY

In order to increase the use of IWT as a modality in the logistics chain, awareness should be raised with future logistics decision makers. Knowledge on IWT as a key modality in the logistics chain will have to be integrated in general logistics education, whereas the logistics educational institutes have expressed the need for dedicated educational material. For this reason, a web-database of common IWT materials was created in PLATINA. Other European initiatives were initiated in the same period of time, e.g: INES Danube, INES RMS and REWWay. On the one hand, the materials need a revision according to the most recent developments in the market, and on the other hand the creation of a one-stop-shop for logistics educational institutes is a preferred way to assist these institutes in further integration of IWT knowledge into their curricula. However, during the lifetime of PLATINA-II, after consolidation of materials available for use, the conclusion was drawn that the emphasis could better be put on dissemination of logistics learning material than on the revision of material available. For this reason, the deliverable focusses on the changes with respect to the database which was created with support of PLATINA.

2. AIMS AND APPROACH OF DELIVERABLE

This deliverable is a follow-up of the creation of a “web-database of common IWT materials” which was created in PLATINA. The database developed under the PLATINA project could be further extended and in addition, the creation of a one-stop-shop of logistics learning materials would ease the search of logistics educational institutes for appropriate lesson materials. The material of various European and national projects has been incorporated in the web-database, a.o:

- NELI;
- HINT;
- REWWay;
- INES RMS;
- INES Danube

This provides learning materials for education on various levels. However, future logistics decision makers are mainly educated at bachelor and master level, and for this reason the database has been extended with targeted material, like for example the complete Minor Sustainable Inland Shipping Management (in Dutch). A minor is a specialisation during a study on Bachelor level with a duration of six months. As a final step, the material available in the web-database has been grouped according to language and then according to topic, which was a change with respect to the first database, and eased the searching for the target groups.

A next step would be the revision of materials available in the database, due to developments in the market since the materials has been developed. However, after a final check, the material did not need a profound revision and in consultation with the European Commission, the revision of material was not executed in the framework of the activities of PLATINA-II. Instead, the execution of River Shows was initiated, during which logistics education institutes are made aware of the possibilities of the database and receive guidance on how to integrate IWT knowledge into their curricula. In addition, during the River Shows, students have the possibility to discuss the

integration of IWT with industry participating in the River Shows. Up-to-date, the first Rivershows were executed in Austria and Romania, whereas the next ones are scheduled for Germany, Croatia and the Netherlands.

3. TARGET GROUP AND CATEGORIES OF LEARNING MATERIALS

The web-database created under PLATINA offers learning materials on various levels of education, primary, secondary, pre-vocational, secondary vocational, Bachelor and Master Level. Since the web-database should facilitate the uptake of IWT knowledge in general logistics education for future logistics decision makers, it was decided to focus during the restructuring and extension of the web-database on the bachelor and master level. The material for other levels is still available, and in addition, material for the Bachelor level might be used as well for students on a secondary vocational level.

In order to ease the search for learning materials in various languages, the menu first provides a choice of languages: Dutch, English, French, German, other languages and Romanian:



Figure 1: Homepage of the web-database on the website of EDINNA (www.edinna.eu/general-iwt)

Before restructuring, the website offered the choice of various types of learning materials: facts and figures, interactive, maps and teaching aids, after which a choice between various languages could be made. The next step in the menu is restructured according to categories as identified in PLATINA, NELI, EWITA and HINT, on the one hand to ease the process of searching for a certain topic and on the other hand to provide a better structure to integrate the materials developed in various European and national initiatives.

The following topics have been identified:

- Communication and Technology;
- Environment;
- General Overview on IWT;
- Intermodal IWT;
- IWT Market and Organisation;
- Policy and Law;
- Ports and Terminals;
- Transport Geography; Waterways and Infrastructure;
- Vessels



Figure 2: Renewed structure of the web-database

All aforementioned topics are covered in various languages, thus offering a complete picture of all topics needed for an overview of the possibilities of IWT as a modality in the logistics chain.

The categories offer a variety of learning tools: from theory in articles and books, to PowerPoint presentations, movies, interactive games, maps and even a complete minor (duration half a year) for Sustainable Inland Shipping Management. The following main items are included in the various categories as aforementioned:

1. Communication and Technology

The material provided under the category Communication and Technology mainly focusses on River Information Services as well as digital tools for Shippers and Skippers and Information Systems for Traffic Management ;

2. Environment

Focusses mainly on the advantages of IWT as the most sustainable mode of transport in the logistics chain, and in addition provides information on the prevention of pollution;

3. General Overview of IWT

Provides a first general overview of what IWT is, what its role could be in the logistics chain and what the advantages of IWT are. The material provided in this category contains the basic knowledge after which profound material on the topics aforementioned can be found in other categories;

4. Intermodal IWT

The material provided in this section focusses on the role of IWT in the intermodal logistics chain, providing an overview of the possibilities as well as the most efficient intermodal routes, efficient intermodal networks. Case studies and interactive materials have been included in order to increase awareness and knowledge on the possibilities of the role of IWT in the intermodal logistics chain;

5. IWT Market and Organisation

Types of cargo, Cargo Handling, Cargo Knowledge, Market Observation, Organisation of the IWT Market and Access to the Inland Shipping Market are a summary of types of information available in the category on IWT Market and Organisation

6. Policy and Law

The material offered under Policy and Law mainly focusses on EU IWT policy, directives and regulations;

7. Ports and Terminals

Inland Ports and their function, and in-depth overview of selected inland ports and the HINT Model Course Inland Navigation and Ports are subjects included in the category ports and terminals;

8. Transport Geography: Waterways and Infrastructure

This category offers logistics students an overview of IWT topography, capacity of waterways, developments in the waterway, Manual on Danube Navigation, Information on River Administrations, Main – Danub and Danube – Black Sea Canal, various maps and additional information on the IWT Transport Geography;

9. Vessels

Last but not least, this category of learning materials provides an in-depth overview of the types of vessels, their capacity and possibilities.

Besides restructuring the database to increase user-friendliness, the database has been extended in order to create a one-stop-shop for logistics educational institutes. The following initiatives have been incorporated in the web-database:

- INES RMS and INES DANUBE (www.ines.info) : INES RMS is an e-learning platform which provides a modern form of education in the field of logistics on Inland Waterways in the Rijn-Maas-Schelde region with particular emphasis on intermodality. INES RMS contains the following subjects: Topography, Capacity of the Waterways, Developments in the Waterways Harbour, Ships, Organisation of Inland Shipping Market, Information and Communication Systems and Technology, Intermodal Transport and Access to Inland Shipping Market. INES RMS is available in Dutch, English and German. INES DANUBE focusses on the DANUBE area and is offering materials for the following categories: waterways, inland vessels, ports and terminals, river information services, market and organisation, intermodal IWT, ship waste management and LNG and is available in English, German, Romanian, Slovenian, Hungarian, Croatian, Serbian and Bulgarian;

- NELI (www.neliproject.eu) : Cooperation Network for Logistics and Nautical Education focussing on Inland Waterway Transport in the Danube Corridor, was a project with a duration of three years supported by the South-East Europe Transnational Cooperation Programme. The project delivered a.o. course material for River Information Services, Inland Navigation and Ports and Logistics;
- HINT (<http://www.hintproject.net/>) : Harmonized Inland Navigation Transport through Education and Information Technology developed course materials with respect to Inland Navigation and Ports, Logistics and River Information Services;
- REWWay (<http://www.rewway.at/en/>) : Research & Education in Inland Waterway Logistics, is a competence centre for inland navigation logistics set-up by Via Donau and Logistikum. Goal of REWWay is to integrate inland navigation into logistics education and training to raise acceptance of the Danube as environmentally friendly way of transport. Learning materials are available in German and English

Die Elemente der Binnenschifffahrt

REWWay
Research & Education
in Inland Waterway Logistics

LOGISTIKUM
Steyr
die Logistik-Management-Expertise

viadonau



Figure 3: Example of material offered by REWWay

- Sustainable Inland Shipping Management (SISM): in the Dutch educational system students following an education on Bachelor level have to choose a minor for a period of half a year during their four year education at a University of Applied Sciences. For students following a study related to logistics, personnel affairs or economics, a minor on Sustainable Inland Shipping Management has been developed, containing the following topics:

- Modern Business – New Markets;
- International Policy and Legislation;
- Efficient intermodal Network – Information Services;
- HRM Inland Shipping – Safety, Health, Environment and Quality;
- Logistics Chain Management – Terminal Management

The material of the Minor SISM has been made available in the web-database (Dutch language only).

Het schip voldeed, zo bleek uit latere berekeningen, bij vertrek van de laadplaats niet aan de wettelijke stabiliteitseisen zoals gesteld in hoofdstuk 22 van het ROSR. Volgens de bemanning gedroeg de Ferox zich kort na vertrek enigszins instabiel. Een en ander bleek hen uit het feit dat het schip naar hun eigen zeggen scheef ging hangen. In eerste instantie



Figure 4: Example of material offered by SISM

By integrating existing initiatives on European and National Level, the creation of a one-stop-shop has been initiated. The web-database will be a dynamic environment, where new initiatives will be incorporated and materials might be adapted based on the outcomes of River Shows and bilateral contacts with end-users.

The database is the most extended in the English language, which could facilitate the larger part of the EU, since on a Bachelor level education is often provided in English. The learning package for the topics identified is ready in English, including PowerPoint presentations and other learning tools. In addition, the material offered in German and Dutch is extensive as well. Additional sources in French and Romanian are still welcomed and will be included when available.

4. COMMUNICATION AND DISSEMINATION

Up-to-date various targeted communication and dissemination activities have taken place to raise awareness on the existence of the database as well as to support the uptake of the material offered by logistics education and training institutes.

In Spring 2014, all identified logistics education institutes in a number of Member States were informed on the web-database and its possibilities by direct mailings in English, German and Romanian. Institutes in Austria, Belgium, Bulgaria, Croatia, France, Hungary, Serbia, Slovakia, Germany, Romania and the Netherlands were addressed by direct mailings and in addition the addressees in the Danube region received a copy of the Manual on Danube Navigation for free.

The members of EDINNA form a multiplying platform to disseminate the web-database to their networks, and for this reason the web-database was presented at the General Assembly of EDINNA in February 2014 (Brussels) and April 2015 (Vienna). In addition, the existence was communicated on various PLATINA-II occasions.

As identified in Deliverable D 3.1 the European Logistics Association (ELA) is a key multiplier in order to integrate IWT knowledge in general logistics education. The ELAQF Qualification Standards do not include IWT as a transport modality up-to-date. Various bilateral exchanges have taken place with ELA in order to exchange ideas on the way how to integrate IWT knowledge into the ELAQF Qualification Standards. On the 29th of May 2015, a bilateral meeting between PLATINA-II and the ELA National Certification Centres was conducted in Milano, Italy, where it was agreed upon that IWT will be integrated into their ELAQF Qualification Standards, which are currently being revised.

“River Shows”

In order to assist general logistics education and training institutes, PLATINA-II organises dedicated “River Shows” where logistics lecturers, logistics students, the industry and other stakeholders exchange ideas on how to integrate ITW knowledge into their curricula and in the meantime work on practical cases with the students attending the event. The “River Shows” cooperate with events on a national level in order to increase the number of participants.

The first “River Show” was executed on the 23rd of April 2015 in Enns, Austria in cooperation with REWWay. About 90 participants were attending the event, varying from 60 participants from the educational sector (including students from business schools and university as well as teachers) about 20 participants from the economy as well as about 10 researchers.



Figure 5: “River Show” in Enns on the 23rd of April 2015

On the 3rd of June 2015, a “River Show” was organised in Constanta, Romania, which was attended by about 40 participants from the educational field as well as the industry. Both events should a great interest from participants in IWT as a modality and offer a solid basis for cooperation in the future.

As indicated, “River Shows” will be scheduled in Germany, Croatia and the Netherlands in early Spring 2015.



Figure 6: "River Show" in Constanta on the 3rd of June 2015

5. RECOMMENDATIONS

The web-database set-up by PLATINA and PLATINA-II is a one-stop-shop for logistics education and training institutes searching for dedicated learning materials to integrate IWT into their logistics curricula. The “river shows” executed in the framework of PLATINA-II have been able to facilitate a number of selected institutes to uptake IWT knowledge into their curricula. In addition, the cooperation with ELA on the integration of IWT as a modality into the standards, is a next step towards sustainable integration of IWT knowledge into general logistics education. However, additional steps are needed in order to ensure a long-term cooperation between various stakeholders in the logistics learning field in order to integrate IWT knowledge into general logistics education.

In order to ensure long term uptake of logistics learning material to increase the role of IWT in the logistics chain, materials should be updated regularly according to developments in the market and at the same time an interactive approach between various stakeholders would be preferred. As indicated in Deliverable D 3.1 of PLATINA-II (Dissemination Plan for Logistics Learning Material) a Community of Practice (CoP) offers the possibilities to all interested stakeholders to participate in the integration of IWT knowledge into general logistics education. A CoP allows interactive dialogues between all stakeholders involved, where students are not only to obtain theoretical knowledge, however can work on cases at the same time, which could be set-up by the industry. Students could thereby provide the industry or other stakeholders with solutions for problems touched upon in the cases.

A CoP however requires different technical possibilities of the existing website, which is not foreseen in the course of Platina II. Furthermore, a CoP requires active participation from industry parties, for which a first solid basis has been laid in the course of PLATINA-II. Additional resources to complete the technical requirements for a Community of Practice (CoP), as well as additional content, should be ensured. This action is foreseen in the PROMINENT project, an Horizon 2020 project which started on the 1st of May 2015, and which will use the web-database as a starting point for the development of a CoP.

ANNEX I: OVERVIEW OF LEARNING MATERIAL AVAILABLE IN THE WEB-DATABASE

Annex I contains a detailed overview of the learning materials and information services available per language and per category.