

D4.1

ALLIANCE e-platform with digitalized material



alliance



DOCUMENT CONTROL SHEET

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ALLIANCE Beneficiaries

TRANSPORT AND TELECOMMUNICATION INSTITUTE – TTI	Latvia
PANEPISTIMIO THESSALIAS – UTH	Greece
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV – Fraunhofer	Germany

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LIST OF ABBREVIATIONS

Abbreviation	Description
D	Deliverable
Fraunhofer IFF	Fraunhofer Institute for Factory Operation and Automation IFF
GNU	General Public License
LMS	Learning Management System
LTi	Learning Tools Interoperability
SCORM	Sharable Content Object Reference Model
STIP	Sustainable Transport Interchanges Program
STSE	Short-Term Staff Exchanges
TTI	Transport and Telecommunication Institute
UTH	University of Thessaly
WP	Work Package

ABSTRACT

The present deliverable is a report about the development of the e-platform of the ALLIANCE project. The e-platform is a supporting tool used by ALLIANCE consortium to spread the main results of the ALLIANCE activities. The main objective of the e-platform is to provide public access to the STIP course material developed in the framework of WP2 and digitized in frame of WP4. The e-platform technically bases on the learning management system (LMS) Moodle. The digitized content of the courses is technically developed by the help of Moodle standard tools. Thus, iSpring software was used for producing sharable content object reference model (SCORM) packages, which allows integrating the presentation and narration in one user-friendly environment. The current document gives a brief overview about the e-platform developed and its functionality with regard to the ALLIANCE e-learning activities as a major contribution towards sustainability of the project.

1 Introduction

1.1 Contents of the deliverable

The present deliverable is a report about the development of the e-platform of the ALLIANCE project. The e-platform is a supporting tool used by ALLIANCE consortium to spread the main results of the ALLIANCE activities. The main objective of the e-platform is to provide public access to the STIP course material developed in the framework of WP2 and digitized in frame of WP4. The e-platform technically bases on the learning management system (LMS) Moodle. The digitized content of the courses is technically developed by the help of Moodle standard tools. Thus, iSpring software was used for producing sharable content object reference model (SCORM) packages, which allows integrating the presentation and narration in one user-friendly environment. The developed courses can be considered as an initial core element, which could be further developed and adopted for anyone's own purposes, by exporting Moodle courses. So, courses will be provided under GNU General Public License. The current document gives a brief overview of the developed e-platform and its functionality, showing examples of the developed digital courses.

The outcome of deliverable D4.1 is the ALLIANCE e-platform, which is publicly available in the domain: <http://e-alliance.tsi.lv/>. The platform is accessed by a direct link or as a section in official webpage of the ALLIANCE project (<http://alliance-project.eu/>). The e-platform will be supported by TTI at least 5 years after the end of the project.

1.2 Project overview

ALLIANCE aims at developing advanced research and higher education institution in the field of smart interconnecting sustainable transport networks in Latvia, by linking the Transport and Telecommunication Institute – TTI with two internationally recognized research entities – University of Thessaly – UTH, Greece and Fraunhofer Institute for Factory Operation and Automation – Fraunhofer, Germany. The close collaboration of TTI with UTH and Fraunhofer will enable the achievement of the goals through the following activities:

- Organization of young researchers' seminars.
- Organization of workshops.
- Organization of summer schools for trainers and young researchers.
- Development of an educational programme for graduate and post-graduate students.
- Development of a training programme for trainers and practitioners.
- Provision of grants for participation as authors of peer-reviewed publications in conferences.
- Facilitation of Short-Term Staff Exchanges (STSE's) with the aim of international collaboration, mainly publications.
- Establishment of a guidance strategy for preparing scientific publications.
- Creation of an educational forum as an online tool for distance learning and knowledge sharing.

The overall methodology of the project is built around the analysis of the needs of Latvia and the surrounding region of the Baltic sea (Lithuania, Estonia, Poland) on knowledge gain about intermodal transportation networks and the development of the tools to attain this knowledge,

providing at the same time excellence and innovation capacity. The analysis to be conducted during the first stages of the project, steps on the overarching relations among policymakers, industry and education/research.

Structured around three main pillars, organizational/governance, operational/services and service quality/customer satisfaction, ALLIANCE will deliver a coherent educational/training program, addressed to enhancing the knowledge of current and future researchers and professionals offering their services in Latvia and the wider region.

The expected impacts on the overall research and innovation potential of TTI and Latvian research community will be of high importance and TTI will benefit from ALLIANCE by:

- Improving its knowledge in methodologies for preparing, writing and publishing scientific papers.
- Strengthening its research capacity.
- Establishing international research teams in specific areas of interest.
- Generating new innovative ideas for future research work through the project's activities.
- Setting up the fundamentals for the young generation of researchers.
- Being integrated into a number of existing international transportation research networks.
- Being incorporated in the European research system of transport and logistics.

In addition, the cooperation of TTI with UTH and Fraunhofer will induce benefits into several domains of everyday life at regional, national and international scope. New bases will be established concerning knowledge transfer procedures, education and interdepartmental collaboration amongst research institutes. The innovative organizational framework, which will be structured for this purpose during the project, is expected to constitute a best practice application with tangible and well-estimated progress results, which will be disseminated and communicated through social events to the research community and to the respective business sector as well.

Lastly, an important benefit will be the configuration of an integrated framework pertaining to the knowledge transfer techniques and the generic upgrading of the educational system with use of networking, staff exchange, webinars and other knowledge transfer methods and techniques based on a well-structured and well-tried schedule.

2 E-platform general description

Current section of the deliverable provides the general overview of the e-platform, which was developed, launched and updated with STIP digitalised materials in the frame of the ALLIANCE project.

2.1 Moodle environment

The developed e-platform is organised as a website, based on the Moodle¹ environment (<https://moodle.org>). Moodle is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalised learning environments. With over 10 years of development guided by social constructionist pedagogy, Moodle delivers a powerful set of learner-centric tools and collaborative learning environments that empower both teaching and learning. Moodle is provided freely as Open Source software, under the GNU General Public License. Anyone can adapt, extend or modify Moodle for both commercial and non-commercial projects without any licensing fees and benefit from the cost-efficiencies, flexibility and other advantages of using Moodle. Moodle provides the most flexible tool-set to support both blended learning and 100% online courses. Moodle has a complete range of built-in features, including external collaborative tools such as forums, wikis, chats and blogs. Because it is open-source, Moodle can be customised in any way and tailored to individual needs. Its modular setup and interoperable design allow developers to create plugins and integrate external applications to achieve specific functionalities. Moodle is web-based and can be accessed from anywhere in the world. With a default mobile-compatible interface and cross-browser compatibility, content on the Moodle platform is easily accessible and consistent across different web browsers and devices. Moodle has achieved and is compliant with the following international standards: An Open Source Initiative; IMS LTI™; SCORM-ADL; Open Badges.

2.2 E-platform management and administration

The website is hosted on TTI server and is maintained by the institution's professional team: IT administrator and tutor of distance learning department. Server software is regularly updated to up-to-date versions for security and stability reasons, the same is also regarding Moodle platform.

The e-ALLIANCE website content is managed via a standard Moodle administration console, available only for administrators of the system. A console is a comprehensive tool for creating and updating the content of pages, news, events, publications, and other materials. While the content of the courses could be managed by everyone with role "Teacher".

The detailed user guide is available at Moodle website². The contact person for e-platform administration and support (including accounts management) is:

¹ <https://moodle.com/about/>

² https://docs.moodle.org/36/en/Main_page

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3 E-platform functionality

Developed e-platform provides all necessary functionality to access digitalised materials of the STIP and to use them in the learning process. Digitalised STIP materials are available free of charge and could be accessed by everyone after registration.

3.1 Login and registration

The developed e-platform allows to do registration using most popular social networks accounts: Facebook and Google+, if the potential user of the platform does not have mentioned social network accounts, the user could complete e-platform specific registration. The access to the materials will be granted after confirmation of the registration. Figure 1 demonstrates the registration options of e-platform.

Figure 1. Log in and registration form

3.2 Enrolment

After getting access to the e-platform of ALLIANCE project, the user is able to enrol himself in any course available in STIP. The user could select the course from the list of available courses as presented in Figure 2. Next, he/she could continue the study process by himself.

Course categories:

Sustainable Transport Interchange Program (STIP) ▼

Search courses:

Go

▼ Collapse all

▼ **Core courses**

🔗 The European policy on intermodal transportation

🔗 Building business models for intermodal transport interchanges

🔗 Decision making methodologies

▼ **Passenger transport block courses**

🔗 Design of passenger transport interchanges

🔗 Operation and management of intermodal transport systems: passenger interchanges

🔗 Intelligent services for passenger transportation

🔗 Data collection methods: Historical and observed data (Public transport)

🔗 Data collection methods: Travel Surveys

▼ **Freight transport block courses**

🔗 Design of freight transport interchanges

🔗 Operation and management of intermodal transport systems: freight interchanges

🔗 Smart equipment for freight transshipment

🔗 Data collection methods: Historical and observed data (Freight transport)

🔗 Data collection methods: Freight Transportation Surveys

🔗 **Research methodology and teamwork setup**

Figure 2. Enrolment options

3.3 Digitalised courses structure and content

Each course that initially has been selected for digitalisation is represented in the e-ALLIANCE platform as a specific course with its individual content and elements. But the general structure of the course is the same for all courses, it is the following:

- General information about the course
 - Course title
 - Course id
 - Course aim and scope
 - Course learning outcomes
 - Recommended information sources
 - Collaboration forum
 - News forum
- Sections per each theme
 - Title of the theme
 - Learning outcomes of the specific theme

- Theme SCORM³ package: narrated presentation
- Theme handouts
- Specific references to additional materials regarding topic
- Self-assessment tests
- Final-assessment
- Feedback about course
- Certificate

The above-presented structure is common for all digitalised courses, but deviations are possible depending on the specific course and author.

Figure 3 demonstrates the example of the digitalised course “Design of freight transport interchanges” in e-platform.

Design of freight transport interchanges

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC9

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS (last 5 minutes)
None

COURSE COMPLETION STATUS
Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
- Users
- Filters
- Reports
- Grades
- Gradebook setup
- Badges
- Backup
- Restore
- Import
- Publish
- Reset
- Question bank

Switch role to...
Site administration

Design of freight transport interchanges

Course title: Design of freight transport interchanges
Course ID: # eC9

Course author:
Prof. Efthalia Nathanael
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, comments, discussions

Theme 1: Introduction

This theme will focus on the components of an intermodal freight terminal and will analyse the parameters that have to be estimated and assessed, in order to provide the input data for designing the terminal.

- Theme 1: Introduction
- Theme 1 Handouts
- Self-assessments: Theme 1

Theme 2. European legal framework - guidelines

It will present the European regulation framework for designing and interconnecting freight transport interchanges and will reveal the relativeness of transportation planning with regional and urban development procedures.

- Theme 2: European legal framework - guidelines
- Theme 2 Handouts
- Theme 2 References
- Self-assessments: Theme 2

Theme 3. Background

This theme will focus on the background and on relevant information about the current state of practice of intermodal freight terminal facilities around Europe.

- Theme 3: Background

LOGGED IN USER

Mihails Savrasovs
Country: Latvia
City/town: savrasovs.m@isi.lv

SEARCH FORUMS
Go
Advanced search

LATEST NEWS
Add a new topic...
(No news has been posted yet)

UPCOMING EVENTS
There are no upcoming events
Go to calendar...
New event...

MESSAGES
No messages waiting
Messages

RECENT ACTIVITY
Activity since Wednesday, 28 December 2016, 5:33 PM
Full report of recent activity...
No recent activity

Figure 3. Example of course internal structure

As was stated above, each theme consists of several elements, the most important are: theme SCORM package, handouts, self-assessment tests.

³ <https://scorm.com/scorm-explained/>

The SCORM package was produced by specific software for the creation of online content – iSpring (<https://www.ispringsolutions.com>). Each SCORM package is a narrated presentation in specific user-friendly environment. SCORM packages are also device-friendly, it means, that the SCORM package could be opened even in mobile device and the graphical user interface will be automatically adopted to the device type. Figure 4 demonstrates example of the SCORM package.

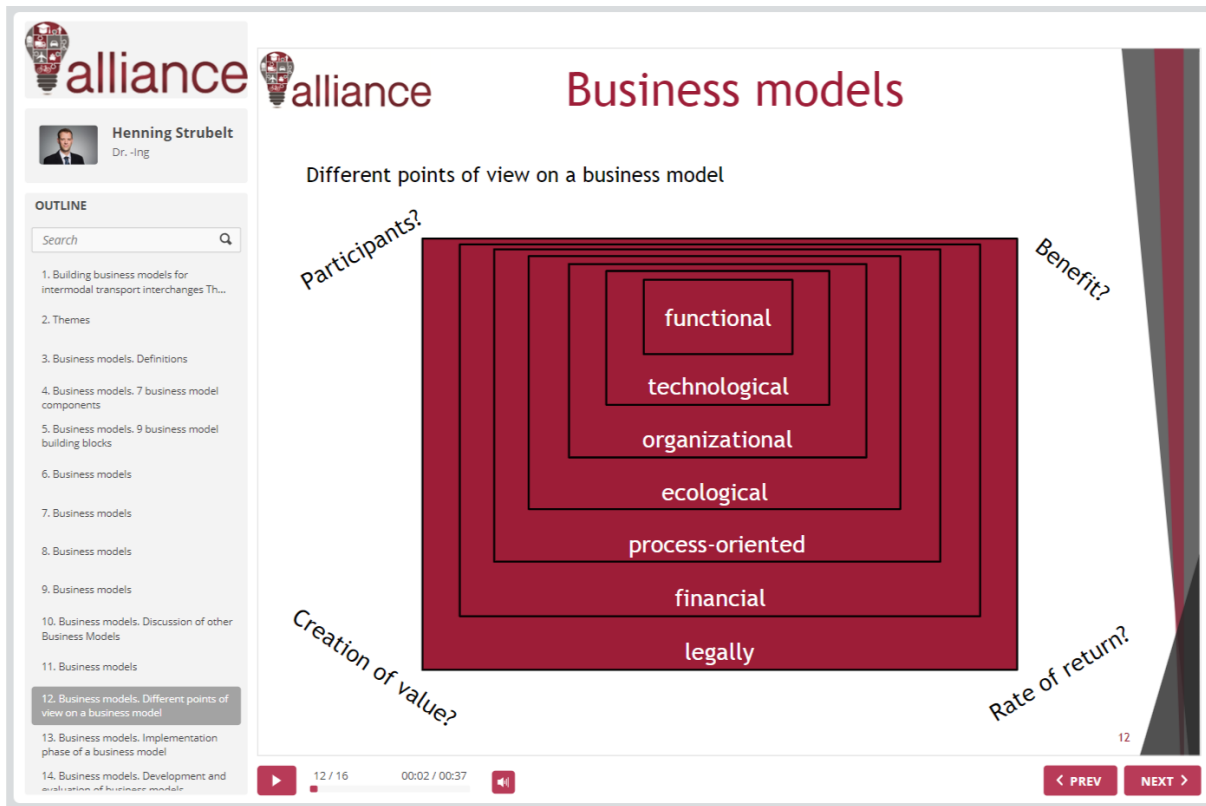


Figure 4. Example of SCORM package for the specific theme

iSpring creates the specific environment around standard PowerPoint presentation and adds a narration. The user of the course could use the outline of the presentation to navigate or use a search tool to find the specific slides using the search tool. Use could regulate the volume and do navigation in narration in the frame of one slide.

To take notes about presentation all themes in all courses have presentations handouts in pdf format, which could be printed and used for making notes. Figure 5 demonstrates the handouts example.



Figure 5. Example of handouts

As was stated above, each theme concludes with a self-assessment test. The tests give the opportunity to the user to check his/her understanding of the specific theme. The self-assessments are not time-limited and the user can use any material for help. The type of test depends on the course author. According to specification, the answer will be checked automatically by Moodle. Figure 6 – Figure 8 demonstrate the examples of different self-assessment tests developed in the frame of STIP digitization.

Question 1

Not yet answered

Marked out of 1.00

Flag question

Edit question

Select the right name of the (red) point in a distribution system. There is only one right answer

Select one:

- ☐ a. Collection
- ☐ b. Access
- ☐ c. Consolidation
- ☐ d. Distribution

Next

Figure 6. Example of self-assessment tests (single answer)

Question 1
Not yet answered
Marked out of 3.00
Flag question
Edit question

Choose the correct answer from the options below to fill in the blanks in the following sentences.

1. A(n) is a structure equipped for transshipment between at least two transport modes or between two different rail systems, and for temporary storage of freight, such as ports, inland ports, airports and rail-road terminals.
2. A(n) is an area where the transport infrastructure of the trans-European transport network, such as ports including passenger terminals, airports, railway stations, logistic platforms and freight terminals located in and/or around and is connected with other parts of that infrastructure and with the infrastructure for regional and local traffic.
3. A(n) is an area which is directly linked to the transport infrastructure of the trans-European transport network including at least one freight terminal, and which enables logistics activities to be carried out.

Next

Figure 7. Example of self-assessment tests (right word selection)

Question 2
Not yet answered
Marked out of 4.00
Flag question
Edit question

Please state whether the following sentences are true or false:

1. Descriptive statistics describes the population.
2. Quantitative research does not use descriptive statistics.
3. Descriptive statistics differentiate with inferential statistics since they are explicitly designed to test hypotheses.
4. Sampling is a process of inferential statistics.

Next

Figure 8. Example of self-assessment tests (true/false)

Every STIP course concludes with a final-assessment. It is organised in test form and to be checked automatically in Moodle. The difference between self-assessment and final assessment is related with the following issues:

- Final-assessment contains questions regarding the whole content of the course;
- Final-assessment is time-limited (execution time is set by authors);
- Final-assessment has only one try for the user;
- Final-assessment is graded;

In Figure 9 an example of a final-assessment is shown.

QUIZ NAVIGATION
1 2 3 4 5 6 7 8 9 10
Finish attempt ...
Time left 0:14:14
Start a new preview

ADMINISTRATION
Quiz administration
Edit settings
Group overrides
User overrides
Edit quiz

Question 1
Not yet answered
Marked out of 4.00
Flag question
Edit question

Please state whether the following statements are true or false

Step: Identify a research problem. Quantitative research attempts to describe the trends and explain the relationships of the variables.

Step: Specify the purpose. Quantitative research is general and broad and seeks to understand the participants' experiences.

Step: Collect data. Qualitative research collects information from a small number of individuals or sites.

Step: Analyze and interpret data. Quantitative research analyzes the text, the description of the themes and states the larger meaning of findings.

Next

Figure 9. Example of final-assessment tests

Final-assessment can contain a number of questions (amount is up to course authors). The user has the possibility to navigate in frame of the final-assessment, to observe all questions first and to answer them in self-paced order. After submission, user is reported about the results of final-assessment. The example of the report is demonstrated in Figure 10.

The screenshot displays a user interface for a final assessment report. On the left, there is a 'QUIZ NAVIGATION' section with a progress bar showing 10 questions, with the first three highlighted. Below this is an 'ADMINISTRATION' sidebar with options like 'Quiz administration', 'Edit settings', 'Group overrides', 'User overrides', 'Edit quiz', 'Preview', 'Results', 'Locally assigned roles', 'Permissions', 'Check permissions', 'Filters', 'Logs', 'Backup', 'Restore', 'Question bank', 'Course administration', 'Switch role to...', and 'Site administration'. The main content area shows the assessment details: 'Started on' (Friday, 21 December 2018, 11:07 AM), 'State' (Finished), 'Completed on' (Friday, 21 December 2018, 11:12 AM), 'Time taken' (5 mins 6 secs), 'Marks' (18.00/30.00), and 'Grade' (6.00 out of 10.00 (60%)). Below this, two questions are detailed. Question 1 is 'Please state whether the following statements are true or false' and is marked 'Partially correct' (Mark 1.00 out of 4.00). It contains four steps: 'Identify a research problem' (False), 'Specify the purpose' (True), 'Collect data' (True), and 'Analyze and interpret data' (True). Question 2 is 'Name the three basic parts of a travel survey. For each part name one of its characteristics' and is also marked 'Partially correct' (Mark 3.00 out of 6.00). It contains three parts: '1. Gender - age' (True), '2. Trip purpose departure time and arrival time' (True), and '3. Possession of private car' (True).

Figure 10. Example of the report about final assessment

After course completion, the user has the opportunity to assess the course with regard to the content and structure of the course, the quality and comprehensibility of the themes as well as the assessments and the study process as a whole, using the feedback form provided.

If the user has passed the final-assessment, the user is offered an automatically generated certificate, which could be downloaded and marked by the unique combination of digits and letters. The example of the certificate is presented in Figure 11.



Figure 11. Certificate example

4 Annexes

Annex A: Screenshot of the course “The European policy on intermodal transportation”

Annex B: Screenshot of the course “Building business models for intermodal transport interchanges”

Annex C: Screenshot of the course “Operation and management of intermodal transport systems: freight interchanges”

Annex D: Screenshot of the course “Operation and management of intermodal transport systems: passenger interchanges”

Annex E: Screenshot of the course “Intelligent services for passenger transportation”

Annex F: Screenshot of the course “Design of passenger transport interchanges”

Annex G: Screenshot of the course “Design of freight transport interchanges”

Annex H: Screenshot of the course “Smart equipment for freight transshipment”

Annex I: Screenshot of the course “Decision making methodologies”

Annex J: Screenshot of the course “Data collection methods: Freight Transportation Surveys”

Annex K: Screenshot of the course “Data collection methods: Travel Surveys”

Annex L: Screenshot of the course “Data collection methods: Historical and observed data (Freight transport)”

Annex M: Screenshot of the course “Data collection methods: Historical and observed data (Public transport)”

Annex N: Screenshot of the course “Research methodology and teamwork setup”

4.1 Annex A: Screenshot of the course “The European policy on intermodal transportation”

The European policy on intermodal transportation

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC1

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

The European policy on intermodal transportation

Course title: *The European policy on intermodal transportation*
Course ID: # eC1



Course author:
Dr. Giannis Adamas
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Background

This theme introduces some basic principles of the European policy and indicative statistical data.

- Theme 1: Background
- Theme 1 Handouts
- Theme 1. Specific references for the theme
- Self-assessment: Theme 1

Theme 2. Trends in intermodality

This theme will help students to understand some basic terminology and it will introduce current and future trends in passenger and freight transportation.

- Theme 2: Trends in intermodality
- Theme 2 Handouts
- Theme 2. Specific references for the theme
- Self-assessment: Theme 2

Theme 3. EU legal and institutional framework

This theme explains how transport has become one of the main concerns of the European policy.

4.2 Annex B: Screenshot of the course “Building business models for intermodal transport interchanges”

Building business models for intermodal transport interchanges

Home > Courses > Sustainable Transport Interchange Program (STIP) > #eC2

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Building business models for intermodal transport interchanges

Course title: *Building business models for intermodal transport interchanges*
Course ID: # eC2



Course author:
Dr. -Ing. Henning Strubelt
*Otto von Guericke University Magdeburg (OvGU)
Faculty of Mechanical Engineering
Institute of Logistics and Material Handling Systems (ILM)*

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Business Models

Introducing business models.

- Theme 1: Business Models
- Theme 1 Handouts
- Theme 1. Specific references for the theme
- Self-assessment: Theme 1

Theme 2. Intermodal Transport

Acquire basic knowledge of intermodal transport.

- Theme 2: Intermodal Transport
- Theme 2 Handouts
- Theme 2. Specific references for the theme
- Self-assessment: Theme 2

Theme 3. Interchange Zones

Acquire basic knowledge of intermodal transport interchange zones.

- Theme 3: Interchange Zones

4.3 Annex C: Screenshot of the course “Operation and management of intermodal transport systems: freight interchanges”

Operation and management of intermodal transport systems: freight interchanges

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC4_2017

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Operation and management of intermodal transport systems: freight interchanges

Course title: *Operation and management of intermodal transport systems: freight interchanges*
Course ID: # eC4_2017



Course author:
Dr. Giannis Adamos
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Stakeholders

This theme analyzes the level and time of stakeholders' involvement in the operation and management of intermodal interchanges.

- Theme 1: Stakeholders
- Theme 1 Handouts
- Theme 1. Specific references for the theme
- Self-assessment: Theme 1

Theme 2. Operational structures

This theme provides an overview of the main operational structures in freight transport interchanges.

- Theme 2: Operational structures
- Theme 2 Handouts
- Theme 2. Specific references for the theme
- Self-assessment: Theme 2

Theme 3. Management structures

This theme provides an overview of the main management structures in freight transport interchanges.

4.4 Annex D: Screenshot of the course “Operation and management of intermodal transport systems: passenger interchanges”

Operation and management of intermodal transport systems: passenger interchanges

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC4_2018

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Operation and management of intermodal transport systems: passenger interchanges

Course title: *Operation and management of intermodal transport systems: passenger interchanges*
Course ID: # eC4_2018



Course author:
Dr. Giannis Adamos
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Stakeholders

This theme analyzes the level and time of stakeholders' involvement in the operation and management of intermodal interchanges.

- Theme 1: Stakeholders
- Theme 1 Handouts
- Theme 1. Specific references for the theme
- Self-assessment: Theme 1

Theme 2. Operational and management structures

This theme provides an overview of the main operational and management structures in passenger transport interchanges.

- Theme 2: Operational and management structures
- Theme 2 Handouts
- Theme 2. Specific references for the theme
- Self-assessment: Theme 2

4.5 Annex E: Screenshot of the course “Intelligent services for passenger transportation”

Intelligent services for passenger transportation

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC6

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Intelligent services for passenger transportation

Course title: *Intelligent services for passenger transportation*
Course ID: # eC6



Course author:
Dr.-Ing. Henning Strubelt
*Otto von Guericke University Magdeburg (OvGU)
Faculty of Mechanical Engineering
Institute of Logistics and Material Handling Systems (ILM)*

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Transport Modes

Introducing different transport modes.

- Theme 1: Transport Modes
- Theme 1 Handouts
- Theme 1. Specific references for the theme
- Self-assessment: Theme 1

Theme 2. Information Technology

Get an overview of information technologies for the passenger transport market.

- Theme 2: Information Technology
- Theme 2 Handouts
- Theme 2. Specific references for the theme
- Self-assessment: Theme 2

Theme 3. IT Application Fields

This theme will focus on the places of transshipment with their interacting devices.

- Theme 3: IT Application Fields

4.6 Annex F: Screenshot of the course “Design of passenger transport interchanges

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC8

Design of passenger transport interchanges

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Search

Design of passenger transport interchanges

Course title: *Design of passenger transport interchanges*
Course ID: # eC8



Course author:
Dr. Giannis Adamos
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Components of passenger transport interchanges

This theme introduces the components of passenger transport interchanges.

- Theme 1: Components of passenger transport interchanges
- Theme 1 Handouts
- Theme 1. Specific references for the theme
- Self-assessment: Theme 1

Theme 2. Guidance and recommendations

This theme provides to students some guidelines and recommendations of the efficient design of passenger transport interchanges.

- Theme 2: Design typologies and requirements
- Theme 2 Handouts
- Theme 2. Specific references for the theme
- Self-assessment: Theme 2

Theme 3. Design typologies and requirements

This theme introduces a methodology for an interchange typology and the respective design requirements.

4.7 Annex G: Screenshot of the course “Design of freight transport interchanges

Design of freight transport interchanges

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC9

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Design of freight transport interchanges

Course title: *Design of freight transport interchanges*
Course ID: # eC9



Course author:
Prof. Efthia Nathanail
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, comments, discussions

Theme 1: Introduction

This theme will focus on the components of an intermodal freight terminal and will analyse the parameters that have to be estimated and assessed, in order to provide the input data for designing the terminal.

- Theme 1: Introduction
- Theme 1 Handouts
- Self-assessments: Theme 1

Theme 2. European legal framework - guidelines

It will present the European regulation framework for designing and interconnecting freight transport interchanges and will reveal the relativeness of transportation planning with regional and urban development procedures.

- Theme 2: European legal framework - guidelines
- Theme 2 Handouts
- Theme 2 References
- Self-assessments: Theme 2

Theme 3. Background

This theme will focus on the background and on relevant information about the current state of practice of intermodal freight terminal facilities around Europe.

- Theme 3: Background

4.8 Annex H: Screenshot of the course “Smart equipment for freight transshipment”

Smart equipment for freight transshipment

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC10

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Smart equipment for freight transshipment

Course title: *Smart equipment for freight transshipment*
Course ID: # eC10



Course author:
Dipl.-Wirt.-Inform. Oliver Meier
Yves Cohen
*Otto von Guericke University Magdeburg (OvGU)
Faculty of Mechanical Engineering
Institute of Logistics and Material Handling Systems (ILM)*

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Challenges of transshipment

Introducing in the transshipment topic with theoretical basics.

- Theme 1: Challenges of transshipment
- Theme 1 Handouts
- Self-assessments: Theme 1

Theme 2. Transshipment technologies

Transshipment technologies is about the theoretical basics and well-known examples from the industry.

- Theme 2: Transshipment technologies
- Theme 2 Handouts
- Additional information section (optional): Theme 2
- Self-assessments: Theme 2

Theme 3. Places of transshipment

This theme will focus on the places of transshipment with their interacting devices.

- Theme 3: Places of transshipment

4.9 Annex I: Screenshot of the course “Decision making methodologies”

Decision making methodologies

Home > Sustainable Transport Interchange Program (STIP) > eC11

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)

- Mihails Savrasovs

COURSE COMPLETION STATUS

Status: Not yet started

All criteria below are required:

Required criteria	Status
Activity completion	0 of 1

More details
View course report

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Course completion
 - Users
 - Unenrol me from eC11
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Decision making methodologies

Your progress

Course title: *Decision making methodologies*
Course ID: # eC11



Course author:
Prof. Efthia Nathanail
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Background

This theme will provide a smooth introduction to the relevant terminology and basic information about the need for evaluating a system and decision making methodologies.

- Theme 1: Background
- Theme 1 Handouts
- Theme 1 References
- Self-assessments 1

Theme 2. Benefit cost and social cost benefit analysis

This theme will help students to understand the basic decision making methodologies by exploring different characteristics and features of each one.

- Theme 2: Benefit cost and social cost benefit analysis
- Theme 2 Handouts
- Theme 2 References
- Self-assessments 2

Theme 3. Multi-stakeholder multi-criteria analysis

This theme will help the student to understand the problem building given alternatives and different stakeholders.

4.10 Annex J: Screenshot of the course “Data collection methods: Freight Transportation Surveys”

Data collection methods: Freight Transportation Surveys

Home > Courses > Sustainable Transport Interchange Program (STIP) > eC12a_2017

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Data collection methods: Freight Transportation Surveys

Course title: *Data collection methods: Freight Transportation Surveys*
Course ID: # eC12a_2017



Course author:
Prof. Eftihia Nathanail
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Introduction

This theme will provide a smooth introduction and understanding of qualitative research and the differences between qualitative and quantitative research.

- Theme 1: Introduction
- Theme 1 Handouts
- Specific references for the Theme 1
- Self-assessments 1

Theme 2. Sampling & Statistical analysis

This theme will focus on the understanding of the role of sampling in data collection.

- Theme 2: Sampling & Statistical analysis
- Theme 2 Handouts
- Specific references for the Theme 2
- Self-assessments 2

Theme 3. Data collection methods

This theme will provide the students with an understanding of qualitative methods in data collection along with the strengths and weaknesses of each method.

4.11Annex K: Screenshot of the course “Data collection methods: Travel Surveys”

Data collection methods: Travel Surveys

Home » Courses » Sustainable Transport Interchange Program (STIP) » eC12a_2018

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Data collection methods: Travel Surveys

Course title: *Data collection methods: Travel Surveys*
Course ID: # eC12a_2018



Course author:
Prof. Eftihia Nathanail
Traffic, Transportation and Logistics Laboratory, University of Thessaly, Greece

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Introduction

This theme will provide a smooth introduction and understanding of qualitative research and the differences between qualitative and quantitative research.

- Theme 1: Introduction
- Theme 1 Handouts
- Specific references for the Theme 1
- Self-assessments 1

Theme 2. Setting up a travel survey

This theme will help the students to understand how to set up a travel survey from A to Z and analyze survey's results in order to draw useful conclusions.

- Theme 2: Setting up a travel survey
- Theme 2 Handouts
- Self-assessments 2

Theme 3. Sampling & Statistical analysis

This theme will focus on the understanding of the role of sampling in data collection.

- Theme 3: Sampling & Statistical analysis

4.12 Annex L: Screenshot of the course “Data collection methods: Historical and observed data (Freight transport)”

Data collection methods: Historical and observed data (Freight transport)

Home > Courses > Sustainable Transport Interchange Program (STIP) > #eC12b_2017

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Data collection methods: Historical and observed data

Course title: *Data collection methods: Historical and observed data*
Course ID: # eC12b_2017



Course author:
M.Sc. David Weigert
Fraunhofer Institute for Factory Operation and Automation IFF Magdeburg, Germany

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Complex Data Analysis

What do complex data structures mean for transport and logistics today? In which areas does it apply and how can data be collected and processed? The introductory, first topic will clarify the problem formulation and possible applications to you. You will understand and / or repeat the relevance of complex data structures for future evaluation of transport and logistics systems.

- Theme 1: Complex Data Analysis
- Theme 1 Handouts
- Self-assessment: Theme 1

Theme 2. Big Data, Analysis and Visualization

The second topic focuses on content and methods for analyzing, processing and visualizing large amounts of data (Big Data). You will be able to identify and name differences between traditional and current analysis and visualization methods. You will gain a solid knowledge of established techniques for big data analysis and visualization. You will be enabled to apply the content in the following case study.

- Theme 2: Big Data, Analysis and Visualization
- Theme 2 Handouts
- Self-assessment: Theme 2

Theme 3. Case Study

The case study provides a practical example of how to identify and evaluate a big data analysis. Conceptually, you apply the contents of the previous topics to this case study. You will use your learned methods purposefully and derive your own recommendations for action. Which allows you to apply learned knowledge and develop your own solutions to problems.

4.13 Annex M: Screenshot of the course “Data collection methods: Historical and observed data (Public transport)”

Data collection methods: Historical and observed data (Public transport)

Home > Courses > Sustainable Transport Interchange Program (STIP) > #eC12b_2018

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
- Switch role to...
- Site administration

Data collection methods: Historical and observed data

Course title: Data collection methods: Historical and observed data
Course ID: #eC12b_2018



Course author:
M.Sc. David Weigert
Fraunhofer Institute for Factory Operation and Automation IFF Magdeburg, Germany

- Course author bio
- Course aim and scope
- Course learning outcomes
- News forum
- Questions, Comments, Discussion

Theme 1: Big Data in Passenger Transport

What do complex data structures mean for passenger transport today? In which areas does it apply and how can data be collected and processed? The first topic will clarify the problem formulation and possible applications to you. You will understand and / or repeat the relevance of complex data structures for future evaluation of big data in passenger transport.

- Theme 1: Big Data in Passenger Transport
- Theme 1 Handouts
- Self-assessment 1

Theme 2. Case Study

The case study provides a practical example of how to identify and evaluate a big data analysis. Conceptually, you apply the contents of the previous topics to this case study. You will use your learned methods purposefully and derive your own recommendations for action. Which allows you to apply learned knowledge and develop your own solutions to problems.

- Theme 2: Case Study
- Theme 2 Handouts
- Self-assessment 2

Final-assessments

- Final-assessment
- Certificate
- Feedback

4.14 Annex N: Screenshot of the course “Research methodology and teamwork setup”

Research methodology and teamwork setup

Home » Courses » Sustainable Transport Interchange Program (STIP) » c0

ACTIVITIES

- Certificates
- Feedback
- Forums
- Quizzes
- Resources
- SCORM packages

ONLINE USERS

(last 5 minutes)
None

COURSE COMPLETION STATUS

Completion is not enabled for this course

ADMINISTRATION

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Reports
 - Grades
 - Gradebook setup
 - Badges
 - Backup
 - Restore
 - Import
 - Publish
 - Reset
 - Question bank
 - Switch role to...
 - Site administration

Research methodology and teamwork setup

Course title: *Research methodology and teamwork setup*
Course ID: # eCO



Course author:
Prof. Irina Yatskiv (Jackiva)
Transport and Telecommunication Institute, Latvia

- Course author bio
- Course aim and scope
- Course learning outcomes
- Recommended information sources
- News forum
- Questions, Comments, Discussion

Theme 1: Research process: definition, phases, methods

This theme will provide a smooth introduction to the research process, clarify definitions and puts attention to phases and methods of the research.

- Theme 1: Research process: definition, phases, methods
- Theme 1 Handouts
- Theme 1 References
- Self-assessment: Theme 1

Theme 2. Scientific document types

This theme will help students to understand the scientific documents types, their purpose and also clarify generic structure for each type of the document

- Theme 2: Scientific document types
- Theme 2 Handouts
- Theme 2 References
- Self-assessment: Theme 2

Theme 3. Guidelines for good research work