



Northern Maritime University
North Sea Region

The Interreg IVB
North Sea Region
Programme



Northern Maritime University (NMU)

DELIVERABLE D5.1.1

CONCEPT FOR PILOT COURSE AND EVALUATION

Due Date:	November 2009
Submitted:	November 2009
Main Author:	Harald M. Hjelle, HiMolde
Dissemination:	Consortium



NMU Document Control Sheet

Project Number:			
Document short name:	Concept Pilot Evaluation		
Workpackage:	WP 5, Task 5.1 Concept for pilot courses and Task 5.4 Evaluation of pilot courses		
Deliverable :	D5.1.1		
Version:	1.2		
Document History:	Version	Issue Date	Distribution
	0.1	13 October 2009	Consortium
	1.1	2 November 2009	Consortium
	1.2	10 November 2009	Consortium

Classification

This report is:

Draft	
Final	X
Confidential	
Restricted	
Public	

Partners Owning:	All
Main Editor:	HiMolde
Partners Contributed:	Jacobs University
Made Available To:	All NMU Partners

NMU Project Office

Transport Research Institute
Napier University
Edinburgh, UK
Tel: + 44 131 455 2976
E-mail: g.wilmsmeier@napier.ac.uk
Web: www.tri-napier.org



1	INTRODUCTION	1
2	THE PILOT RUNS IN THE NMU PROJECT CONTEXT	2
3	THE PLANNED PILOT ACTIVITIES AND RESPONSIBLE PARTNERS	4
	PREPARATION OF THE PILOT COURSE	4
	FOLLOW UP AND ASSESSMENT OF THE PILOT COURSE	8
4	EVALUATION CONCEPT	10
	EX ANTE EVALUATION	10
	EX POST EVALUATION	10
5	EVALUATION FORMS	11
	NMU EVALUATION FORM 1A PILOT COURSE FACTS – TO BE COMPLETED BY PARTNER RESPONSIBLE FOR THE PILOT EX ANTE.....	12
	NMU EVALUATION FORM 1B PILOT COURSE EXPECTATIONS – TEACHER’S PERSPECTIVE – TO BE COMPLETED BY EACH PROFESSOR/LECTURER INVOLVED IN THE PILOT RUN EX ANTE	13
	NMU EVALUATION FORM 1C PILOT COURSE EXPECTATIONS – STUDENT’S PERSPECTIVE – TO BE COMPLETED BY EACH PILOT COURSE STUDENT/PARTICIPANT EX ANTE	15
	NMU EVALUATION FORM 2A PILOT COURSE EX POST REPORT – TO BE COMPLETED BY PARTNER RESPONSIBLE FOR THE PILOT EX POST.....	17
	NMU EVALUATION FORM 2B PILOT COURSE EXPERIENCES – TEACHER’S PERSPECTIVE – TO BE COMPLETED BY EACH PROFESSOR/LECTURER INVOLVED IN THE PILOT RUN EX POST	19
	NMU EVALUATION FORM 2C PILOT COURSE EXPERIENCES – STUDENT’S PERSPECTIVE – TO BE COMPLETED BY EACH STUDENT/PARTICIPANT INVOLVED IN THE PILOT RUN EX POST	20

1 INTRODUCTION

This deliverable establishes the concept for the pilots and the evaluation of the pilot runs of modules and module elements in the project phase of Northern Maritime University. The concept for pilots belongs to task 5.1 and the evaluation of the pilot runs belongs to task 5.4 under WP5 and the main responsible partner is Molde University College. Other partners in WP5 are FH-Kiel, FH-Lübeck, FH-Bremen, Jacobs University, TRi Napier and Pantrak.

The pilots are scheduled to be run either in autumn 2009 or spring 2010. Some of them will be aimed at ordinary student groups and some at a stakeholder audience. We have emphasized that we want variety in the selection of pedagogical approach, technology platforms, target groups and subject areas. The evaluation of the pilots will therefore have to encompass all these dimensions to ensure a good learning outcome for the network, stakeholders and the general audience.

This short deliverable will only define some principles, concepts and tools for the evaluation process. The outcome of the evaluations will be reported on in a separate deliverable.

Thanks to consortium members for constructive suggestions to an earlier version of the document. Section 3 is written by Phanthian Zuesongdham of Jacobs University, the remaining part is written by Harald M. Hjelle of Molde University College.

2 THE PILOT RUNS IN THE NMU PROJECT CONTEXT

The NMU project is half way through it's project period. So far the main focus has been on integrating the network, establishing stakeholder contacts, identifying the strengths of each partner and agreeing upon future areas of cooperation. Now the time has come for testing the ability of the network to provide high quality relevant academic education to stakeholders and students.

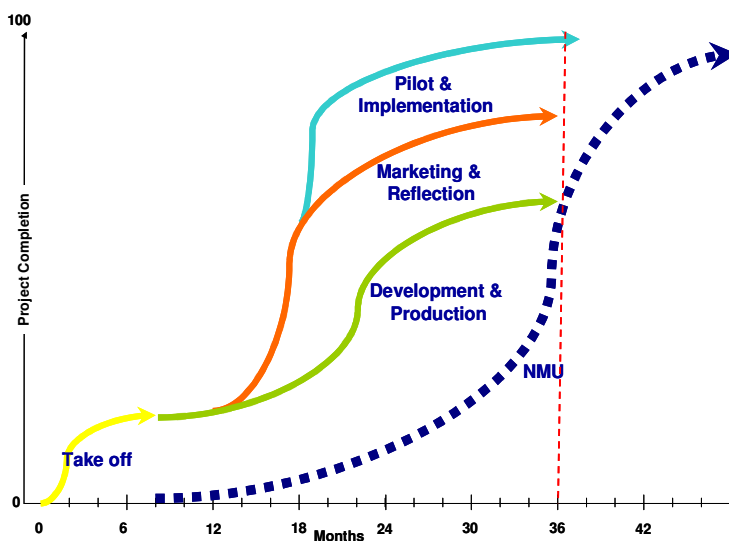


Figure: Project completion and work package phases

During the coming months, at least 14 different pilot courses will be run at different locations – some of them based on traditional face-to-face learning methods, and some on our common e-learning platform. Pilots will be aimed at various stakeholder groups and also offered to students at the participating academic institutions.

Our aim is to learn as much as possible from these pilot runs, and therefore we want to test-run courses based on different pedagogical platforms and different sizes (workloads ranging from 1.5 to 7.5 ECTS). We also want variety with respect to subject areas and target groups. The pilots will be module elements or full modules based on the 7 NMU-modules that have been developed through the project. These are:

- Module A “Applied Maritime Transport Management”
- Module B “Applied Maritime Economics”
- Module C “Maritime Transport and the Environment”
- Module D “Logistics and Global Supply Chain Management”
- Module E “International Maritime Human Resource Management”
- Module F “Intermodal Freight Transport”
- Module G “Ship Technology”



Typically, more than one partner is involved in each module, effectively playing on the speciality competences of the individual partners. Some pilots will be run this autumn and some through the spring of 2010. All pilot runs will be closely followed and evaluated for further development.

3 THE PLANNED PILOT ACTIVITIES AND RESPONSIBLE PARTNERS

The pilot runs are scheduled in two kick-off periods; the first one in October 2009 and the second one in February 2010. The pilot activities were planned in order to support all partners involved in the pilot courses in their planning and quality control process.

The scenarios of the pilot runs are selected as such they can represent the real environment in which NMU will be run after the project termination.

Two stages of pilot courses are defined:

1. Preparation of the pilot course
2. Follow up and assessment of the pilot course

PREPARATION OF THE PILOT COURSE

The main objectives of the activities at this stage aims to support the pilot courses as such they can be run successfully. These activities include:

1. Selection of the module and module elements to be pilot course
2. Definition of the module coordinator
3. Definition of the module or module element responsible partner(s)
4. Definition of the kick-off date of each pilot course
5. Selection of the target group of each pilot course

Two important roles are defined for clear separation of the responsibility areas within each module.

1. The module coordinator is responsible for all activities related to administrative aspects of the modules. These activities include
 - a. registration of the module / module element;
 - b. coordination between the module responsible partners regarding the completeness of the module content;
 - c. consolidation of the module content and update the module description in case of changes;
 - d. action as the first contact person to external parties in case of questions or inquiries about the module / module element(s)
2. The module element responsible partner takes account in developing the contents of the module or module elements as identified in WP 3 according to their competencies.

Resulted from the discussion of the meeting held in Molde dated 26-29 May 2009, the overview of the pilot run reads as follows:

Table 1: Overview of the Pilot Course

Module	Module Name	Responsible partner(s)	Module Element	Module Element Name	Pilot Run 1 Oct 09	Pilot Run 2 Feb 10
Module A	Applied Maritime Transport Management		ME. A. 1.	Maritime Transport Business Environment		
			ME. A. 2.	Maritime Transport Industry Sectors		
			ME. A. 3.	Strategic Management in Maritime Transport		X?
			ME. A. 4.	Port & Terminal Management		
			ME. A. 5.	Innovation in Maritime Transport		
Module B	Applied Maritime Economics	TRI	ME. B. 1.	Bulk Shipping Economics		X
			ME. B. 2.			
			ME. B. 3.			
			ME. B. 4.			
			ME. B. 5.			
Module C	Maritime Transport and the Environment	IVL	ME. C. 1.	Emissions to air from maritime transport and emissions cleaning		X
			ME. C. 2.	N/A		
			ME. C. 3.	N/A		
			ME. C. 4.	N/A		
			ME. C. 5.	N/A		
Module D	Logistics and Global Supply Chain Management	HiMolde	ME. D. 1.	Elementary SCM	X	
		TRI	ME. D. 2.	Maritime Value Chains		
		HiMolde	ME. D. 3.	Analysing cases of maritime value chains	X	
		TRI	ME. D. 4.	Value added logistics services in maritime value chains		
		GU	ME. D. 5.	Intermodal transport (<i>sharing with Module G</i>)		
Module E	International Maritime Human Resource Management	SDU	ME. E. 1.	Shore-based HRM		X
		UAS-BR	ME. E. 2.	HRM on board ships		
		SDU	ME. E. 3.	Wage and benefit creation, role of unions and employers' organisations		X
		SDU + UAS-BR	ME. E. 4.	Labour conditions regulation on land and on board ship		X
		SDU	ME. E. 5.	Personnel selection, retention and career planning, planning and investment in education and training		X
Module F	Intermodal Transport	GU	ME. F. 1.	Introduction to intermodal transport	X	
		GU	ME. F. 2.	Intermodal transport technologies	X	
		GU	ME. F. 3.	Intermodal system management and economics	X	
		GU	ME. F. 4.	Analytical frameworks for strategic intermodal system design	X	
		GU	ME. F. 5.	Intermodal legal and security frameworks	X	
Module G	Ship Technology	JacobsUni	ME. G. 1.	Ship Knowledge		X
		JacobsUni	ME. G. 2.	Ship Technology Systems		X
		JacobsUni	ME. G. 3.	Ship Operation and Management		X
		JacobsUni	ME. G. 4.	Legulatory Framework regulating ship		X

		JacobsUni	ME. G.5.	Ship Technology Development and Future Trends		X
--	--	-----------	----------	---	--	---

From the table 1, each pilot course can be elaborated according to the period of the pilot run as follows:

October 2009

Module D: Logistics and Global Supply Chain Management	
Module Elements in Pilot Run	ME. D.1 – Elementary SCM ME. D.3 – Analysing cases of maritime value chains
Target Group	ME. D.1 - 1st semester MSc Logistics students at HiMolde or other insititutions ME. D.3 - Stakeholder
Learning Methods	E-Learning (ME. D.1 - 1.5 ECTS) Blended Learning (ME. D.3 – 1.5 ECTS)
E-Learning Module	ME. D.1 – Elementary SCM (1.5 ECTS)
Total ECTS for the Pilot Course	3 ECTS

Module F: Intermodal Freight Transport	
Module Elements in Pilot Run	ME. F.1 – Introduction to Intermodal Transport ME. F.2 – Intermodal Transport Technologies ME. F.3 – Intermodal System Management and Economics ME. F.4 – Analytical Frameworks for Strategic Intermodal System Design ME. F.5 – Intermodal Legal and Security Framework
Target Group	ME. F.1 – ME. F.5 - Students from Master of Science Programme in Logistics and Transport Management at GU
Learning Methods	Classroom Lecture with local and travelling lecturer concept (ME. F.1, F.3, F.4 and F.5 – 6 ECTS) Blended learning (ME. F.2 – 1.5 ECTS)
E-Learning Module	ME. F.2 – Intermodal Transport Technology (1.5 ECTS)
Total ECTS for the Pilot Course	7.5 ECTS

February 2010

Module B: Applied Maritime Economics	
Module Elements in Pilot Run	ME. B.1 – Bulk Shipping Economics
Target Group	ME. B.1 – Students from Napier University and other institutions, Stakeholders
Learning Methods	E-Learning (ME. B.1 - 1.5 ECTS)
E-Learning Module	ME. B.1 – Bulk Shipping Economics (1.5 ECTS)
Total ECTS for the Pilot Course	1.5 ECTS

Module C: Maritime Transport and the Environment	
Module Elements in Pilot Run	ME. B.1
Target Group	ME. B.1 – Students from Napier University and other institutions, Stakeholders
Learning Methods	E-Learning (ME. B.1 - 1.5 ECTS)
E-Learning Module	ME. B.1 – Bulk Shipping Economics (1.5 ECTS)
Total ECTS for the Pilot Course	1.5 ECTS

Module E: International Maritime Human Resource Management	
Module Elements in Pilot Run	ME. E.1 – Shore-based HRM ME. E.3 – Wage and Benefits Creation, Role of Unions and Employer's Organisation ME. E.4 – Labour Conditions Regulation on Land and on Board Ship ME. E.5 – Personnel Selection, Retention and Career Planning, Planning and Investment in Education and Training
Target Group	ME. E.1 – E.5 (except E.2) – Students from SDU and other institutions, Stakeholders
Learning Methods	Blended Learning (ME. E.1 – E.5 (except E.2) – 6 ECTS)
E-Learning Module	ME. E.1 – Shore-based HRM (1.5 ECTS) ME. E.3 – Wage and Benefits Creation, Role of Unions and Employer's Organisation (1.5 ECTS) ME. E.4 – Labour Conditions Regulation on Land and on Board Ship (1.5 ECTS) ME. E.5 – Personnel Selection, Retention and Career Planning, Planning and Investment in Education and Training (1.5 ECTS)
Total ECTS for the Pilot Course	6.0 ECTS

Module G: Ship Technology	
Module Elements in Pilot Run	ME. G.1 – Ship Knowledge ME. G.2 – Technologies and Systems in Ships ME. G.3 – Ship Operation and Management ME. G.4 – Legal Framework regulating Ships ME. G.5 – Ship Technology Development and Future Trends
Target Group	ME. G.1 – G.5 – Bachelor students from JacobsUni and other institutions, Stakeholders
Learning Methods	Blended Learning (ME. G.1 – G.5 – 7.5 ECTS)
E-Learning Module	ME. G.1 – Ship Knowledge (1.5 ECTS) ME. G.2 – Technologies and Systems in Ships (1.5 ECTS) ME. G.3 – Ship Operation and Management (1.5 ECTS) ME. G.4 – Legal Framework regulating Ships (1.5 ECTS) ME. G.5 – Ship Technology Development and Future Trends (1.5 ECTS)
Total ECTS for the Pilot Course	7.5 ECTS

FOLLOW UP AND ASSESSMENT OF THE PILOT COURSE

After the pilot courses in each pilot period is finished. The evaluation process will be perform in order to assess the possibilities of the implementation of the NMU learning concepts in the practices: both for students and other stakeholders.



4 EVALUATION CONCEPT

EX ANTE EVALUATION

Before the pilot runs we should log facts about the pilot course, including elements that cover target audience characteristics, teaching/learning methods, technology platform, timeframe, involved partners and professors/lecturers, venues etc. We should also try to log the initial expectations from both the involved teachers and the participants. This will be done through evaluation forms 1A (pilot course facts) 1B (students'/participants' expectations) and 1C (teachers expectations).

EX POST EVALUATION

When the pilot has been completed we would like to log the experiences of teachers and participants as broadly as possible. We will have to leave most questions open ended in order to capture all relevant elements and dimensions. Once again we will mainly log this through written evaluation forms, but we will also augment this with oral interviews or group discussions with the involved parties. We should towards the end of the project have a seminar discussing our experiences from the pilot runs. The minutes from this seminar will be added to the final deliverable about the evaluation outcome.

Three forms are developed for the Ex ante evaluation as well: 2A (ex ante course facts and changes made relative to what was reported on form 1A). 2B (students'/participants' experiences) and 2C (teachers' experiences).

5 EVALUATION FORMS

Six different evaluation forms are presented on the following pages. The three first ones should be completed before the pilot run, or as early as possible after the start, the three last ones after the pilot is completed.

Each form is on a separate page, so printouts of the forms could be used easily.

NOTE: If the relevant respondents are not able to apply an English language form then the pilot administrator should develop an equivalent form in the relevant language and assist the WP5 leadership in interpreting the answers given.

Please note that some elements of forms 1B, 1C, 2B and 2C should be filled in by the pilot administrator before distributing the form to respondents.

The responsible partner for each pilot run should make sure these are completed by the relevant respondents and submit them to the WP5 leader Molde University College as soon as possible.

Mailing address for submission of completed forms:

Molde University College
att: Harald M. Hjelle
Postboks 2110
NO-6402 Molde
Norway

Or via e-mail: harald.hjelle@himolde.no

Or fax: +47 71 21 41 00 with a clear indication of recipient and number of pages on the front page

**NMU EVALUATION FORM 1A PILOT COURSE FACTS***– TO BE COMPLETED BY PARTNER RESPONSIBLE FOR THE PILOT EX ANTE*

1A.1	Name of NMU module / module element the pilot course belongs to	
1A.2	NMU partner responsible for the pilot run	
1A.3	Other NMU partners involved	
1A.4	Teachers/Lecturers and other persons involved	
1A.5	Timing of the pilot run (please indicate total timeframe and timing of gatherings/events)	
1A.6	Venue(s) for gatherings	
1A.7	Target audience (please indicate type of participants)	
1A.8	Number of students/participants at start-up (if mixed, please split number by type of audience)	
1A.9	Teaching/learning methods applied	
1A.10	Evaluation and feed-back methods applied (exams and coursework + any other form of participant feed-back mechanism)	
1A.11	Other comments	

Please use back of the form for extra information if more space is needed (indicate item numbers).



NMU EVALUATION FORM 1B PILOT COURSE EXPECTATIONS – TEACHER’S PERSPECTIVE
– TO BE COMPLETED BY EACH PROFESSOR/LECTURER INVOLVED IN THE PILOT RUN EX ANTE

1B.1	Name of NMU module / module element the pilot course belongs to ¹	
1B.2	Your name and contact details (for possible follow-up questions by the NMU-WP5 team)	
1B.3	Describe your planned involvement/role in the pilot	
1B.4	What are the main critical success-factors of the pilot course, as far as you can see?	
1B.5	To what extent has new content been developed for this pilot module?	
1B.6	To what extent has new pedagogical methods / technology been developed for this pilot module?	
1B.7	Other comments	

¹ To be filled in by pilot module administrator



--	--	--

Please use back of the form for extra information if more space is needed (indicate item numbers).



NMU EVALUATION FORM 1C PILOT COURSE EXPECTATIONS – STUDENT’S PERSPECTIVE
– TO BE COMPLETED BY EACH PILOT COURSE STUDENT/PARTICIPANT EX ANTE

1C.1	Name of NMU module / module element the pilot course belongs to ²	
1C.2	Why did you register for this module?	
1C.3	What is your main occupation (tick)	<input type="radio"/> Student Bachelor’s level <input type="radio"/> Student Master’s level <input type="radio"/> Employee in maritime company <input type="radio"/> Manager in maritime company <input type="radio"/> Employee in other company <input type="radio"/> Manager in other company <input type="radio"/> Public servant <input type="radio"/> Politician <input type="radio"/> Member / representative of NGO <input type="radio"/> Other: _____
1C.4	Age and gender	<input type="radio"/> Age under 25 <input type="radio"/> Age 26-40 <input type="radio"/> Age above 40 <input type="radio"/> Male <input type="radio"/> Female
1C.5	What are your main expectations for this pilot module with respect to learning outcomes?	
1C.6	Do you have other expectations for the course (e.g. networking effects etc.)?	
1C.7	Other comments	

² To be filled in by pilot module administrator



Please use back of the form for extra information if more space is needed (indicate item numbers).



NMU EVALUATION FORM 2A PILOT COURSE EX POST REPORT
– TO BE COMPLETED BY PARTNER RESPONSIBLE FOR THE PILOT EX POST

2A.1	Name of NMU module / module element the pilot course belongs to	
2A.2	NMU partner responsible for the pilot run	
2A.3	Other NMU partners involved	
2A.4	Number of students/participants that participated and completed the pilot course	Number of participants that took part in (part of) the pilot: _____ Number of participants that completed ³ the pilot: _____
2A.5	Comments about deviations relative to the planned framework of the pilot (contents, practical arrangements, teaching methods, participant groups)	
2A.6	Implications of the pilot experience for future module development and delivery	
2A.7	Other comments about the practical side of the pilot run	

³ E.g. that received a diploma or transcript of records.



Please use back of the form for extra information if more space is needed (indicate item numbers).



NMU EVALUATION FORM 2B PILOT COURSE EXPERIENCES – TEACHER’S PERSPECTIVE
– TO BE COMPLETED BY EACH PROFESSOR/LECTURER INVOLVED IN THE PILOT RUN EX POST

2B.1	Name of NMU module / module element the pilot course belongs to ⁴	
2B.2	Your name and contact details (for possible follow-up questions by the NMU-WP5 team)	
2B.3	Describe your involvement/role in the pilot	
2B.4	To what extent would you call the pilot run a success? (please give a few details about elements that you think were more or less successful)	
2B.5	Other comments	

Please use back of the form for extra information if more space is needed (indicate item numbers).

⁴ To be filled in by pilot module administrator



NMU EVALUATION FORM 2C PILOT COURSE EXPERIENCES – STUDENT’S PERSPECTIVE
 – TO BE COMPLETED BY EACH STUDENT/PARTICIPANT INVOLVED IN THE PILOT RUN EX POST

2C.1	Name of NMU module / module element the pilot course belongs to ⁵	
2C.2	What is your main occupation (tick)	<input type="checkbox"/> Student Bachelor’s level <input type="checkbox"/> Student Master’s level <input type="checkbox"/> Employee in maritime company <input type="checkbox"/> Manager in maritime company <input type="checkbox"/> Employee in other company <input type="checkbox"/> Manager in other company <input type="checkbox"/> Public servant <input type="checkbox"/> Politician <input type="checkbox"/> Member / representative of NGO <input type="checkbox"/> Other: _____
2C.3	Age and gender	<input type="checkbox"/> Age under 25 <input type="checkbox"/> Age 26-40 <input type="checkbox"/> Age above 40 <input type="checkbox"/> Male <input type="checkbox"/> Female
2C.4	How is your overall satisfaction with this pilot module?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		Very poor Poor Average Good Very good
2C.5	How is your satisfaction with what you have learnt from this module? (Learning outcomes)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		Very poor Poor Average Good Very good
2C.6	How is your satisfaction with the way this pilot module was conducted? (Quality of lectures and/or other course activities)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		Very poor Poor Average Good Very good
2C.7	How is your satisfaction with the <i>practical arrangements</i> related to this pilot module?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		Very poor Poor Average Good Very good
2C.8	What are the major advantages of this course?	
2C.9	What are the major disadvantages of this course?	
2C.10	Other comments	

⁵ To be filled in by pilot module administrator



--	--	--

Please use back of the form for extra information if more space is needed (indicate item numbers).