



FACHHOCHSCHULE KIEL

UNIVERSITY OF APPLIED SCIENCES



**SUTRANET**



Jelgava, 29 May 2006

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*Kiel University of Applied Sciences*

*Institute for Supply Chain and Operations Management*

# Faculty of Business Management: “Seeverkehrswirtschaft”

## Main Seminars:



- Maritime Traffic Economics



- Port- and Terminalmanagement



- Transportmanagement



**SUTRANET:**

**Sustainable Transport Research &  
Development Network  
in the North Sea Region**



## Overview of the Sutranel partners:

**Aalborg University (AAU)**  
Denmark

**Institute of Shipping Economics  
and Logistics (ISL)**  
Germany

**SINTEF Civil and Environmental  
Engineering**  
Norway

**IVL Swedish Environmental  
Research Institute Ltd.**  
Sweden

**Erasmus University Rotterdam**  
The Netherlands

**FDT – Association of Danish  
Transport and Logistics Centres**  
Denmark

**Institute of Transport Economics –  
TOI**  
Norway

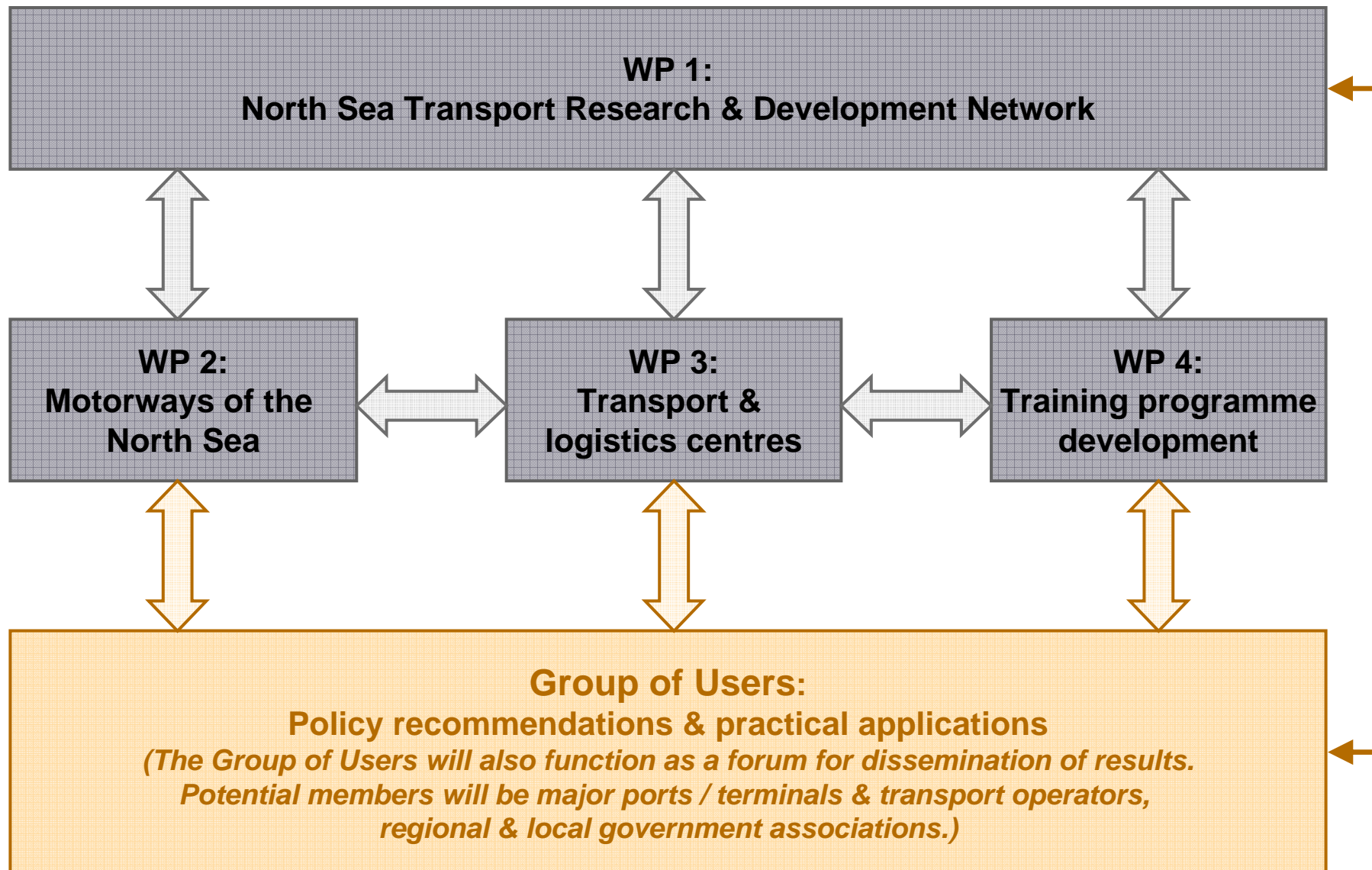
**Moreforskning Molde**  
Norway

**Napier University**  
**Transport Research Institute**  
Scotland, UK

**University of Applied Sciences Kiel  
(Fachhochschule Kiel)**  
**Faculty of Business Management**  
Germany



## Overview of the Sutranel structure:





## WP 4: Training programme development

### Aims:

- one aim is to abolish the problem in staff training that hinders the FI concept of being well transferred
- to improve the qualifications and skills/competences of SMEs and operational staff in intermodal transport
- elaboration of a training programme curricula and the development of a best practice catalogue
- **elaboration of an e-learning module**  
**“Environmentally friendly maritime transport”**



## **Contents of the e-learning module *“Environmentally friendly maritime transport”***

- The situation of merchant shipping
- The issue of sustainability
- Institutions for environmental protection in shipping
- Environmental issues in shipping
- Actions taken in the shipping sector to protect the environment
- ...



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## Co-operation

### Network of REgional MARitime Competence Centres - REMARCC



**MARIKO.RIS**  
Maritimes Kompetenzzentrum

Fachhochschule

University of Applied Sciences

Oldenburg  
Ostfriesland  
Wilhelmshaven

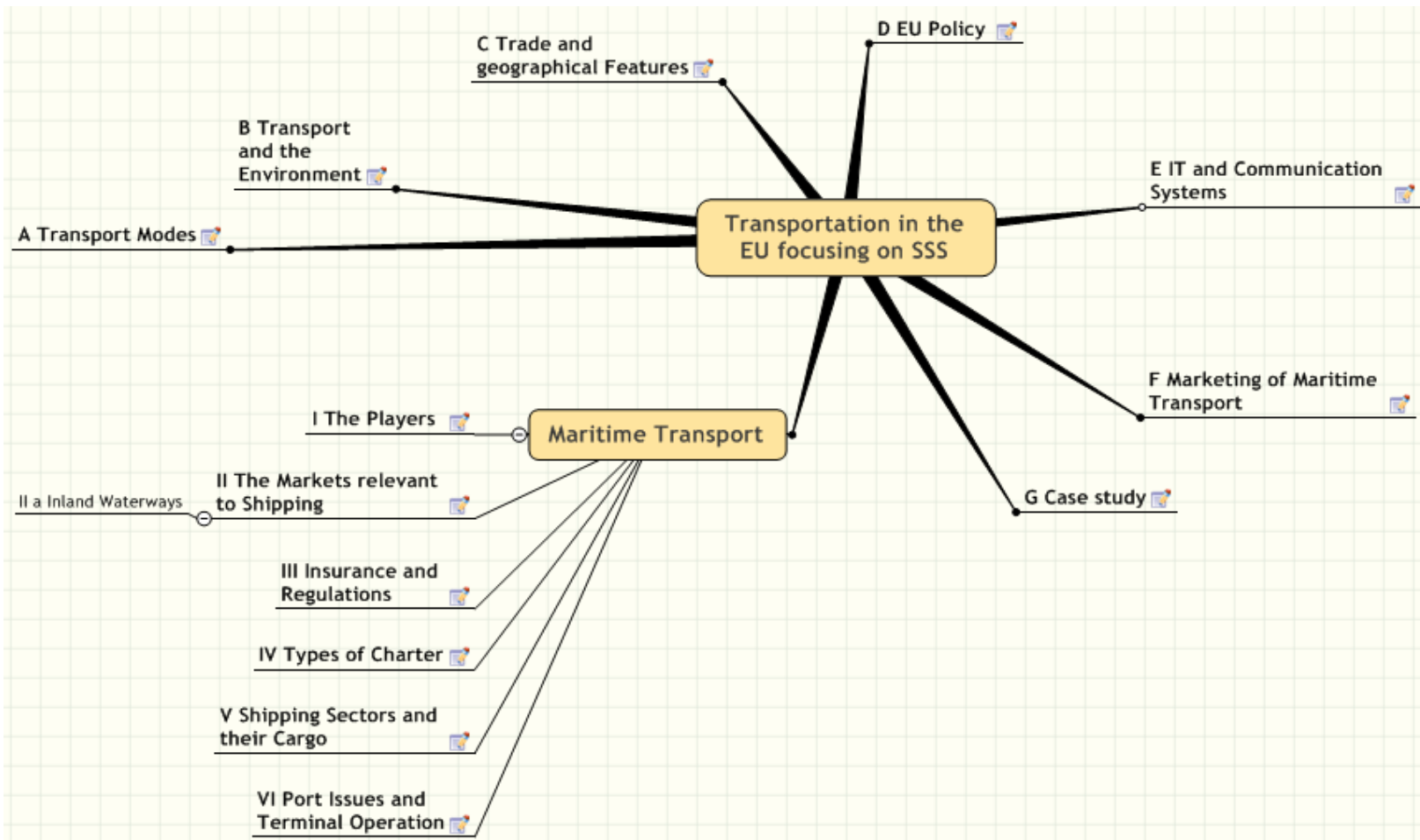






# WP 3: Coaching and Training in Intermodal Transport and Logistics

Network of Regional MARitime  
Competence Centres - REMARCC



ILIAS 3 - Mozilla Firefox

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http://www.maritime-elearning.org/start/start.php

Maritime eLearning












ILIAS 3

REMARCC  
maritime eLearning

Logged in as root user  
Logout

Personal Desktop Repository Search Mail Administration

## Learning Resources

Type	Title
 <b>A: Transport Modes</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>Transportation, characteristics, shipping, road transportation, railways, inland navigation, aviation, pipeline</i>
 <b>B: Transport and the Environment</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>Infrastructure, public/private ownership, privatisation, EU rules and actions, environmental consequences, costs, energy</i>
 <b>C: Trade and geographical features</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>North Sea region countries, democratic and economic features, industrial areas, trading balance, shipping routes and ports</i>
 <b>D: EU Policy</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>White Paper, motorways of the sea, bottlenecks, funding, programs and organization, restrictions, ESN, Marco Polo</i>
 <b>E: IT and Communication Systems</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>Location, Navigation, EDIFACT, RFID, transponder, electronic bills of lading, data interchange, CMI, EDI</i>
 <b>F: Marketing of Maritime Transport</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>Characteristics of marketing, strategies, push and pull, comparisons, advantages and disadvantages, ESN, SPC, DFDS, Rhenus,...</i>
 <b>I: The Players</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>Intermodal transport chain, shipper, ship broker, agent, shipping company, forwarder, consignee, case study</i>
 <b>II: The Markets relevant to Shipping</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>Types of freight, freight market, sale and purchase, newbuilding, demolition, forms of shipping, tramp, liner, shipping te...</i>
 <b>IV: Types of Charter</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>Voyage-, consecutive-, time-, trip time-, bareboat-, and slot charter, BIMCO, cost elements</i>
 <b>V: Shipping Sectors and their Cargo</b> [Edit] [Delete] [Link] [Move] [Subscribe]	<i>Types of vessels, sectors of trading, North Sea, feeder, deepsea, sectors of shipping, companies, cargo, units, running and...</i>
 <b>VI: Port Issues and Terminal Operations</b> [Edit] [Delete] [Link] [Move] [Subscribe]	

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ILIAS - A: Transport Modes - Mozilla Firefox

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http://www.maritime-elearning.org/start/content/lm\_presentation.php?ref\_id=72

Maritime eLearning


ILIAS 3 ILIAS - A: Transport Modes

- modes
  - Pipelines
  - Aviation
  - Road transportation
  - Rail transportation
  - Maritime traffic
    - The infrastructure
    - The means of maritime transport
      - Economic characteristics
      - Service characteristics
    - Inland navigation
  - Comparison
    - Characteristics
    - Performance
      - Environmental pollution
      - Comparison: overview of transport modes
      - Reasons for shifting transport
    - The freight traffic up to 2020 with regard to two different scenarios
    - Characteristics of the four main transport modes
  - Standardisation of transport units
    - Types of pallets
    - Types of transport units
    - Links between transport modes / Intermodal transport

### Multipurpose ships

These ships are 200 metres in length on average. They can load almost any kind of cargo whereas liquids are carried in tank containers. Their main purpose is the transport of project cargo.


Their service speed with about 15 to 20 knots is relatively low as their cargo is mostly not time sensitive.



*Illustration 43: Multipurpose ship with two cranes*

### Ro-ro ships

Ro-ro ships in the deep sea trade are mostly used for the transport of cars. The biggest car carriers are about 230 metres long and can carry up to 8,000 cars. They also transport trucks, construction vehicles and project goods on MAFI trailers. They offer a service speed of about 20 to 25 knots.



*Illustration 44: Car Carrier (www.marnav.dk)*

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# How to integrate the topic of shipping in the BSN?

- IP?
- Combination with tourism?
- Master programme?





**Thank you for your kind attention**